Prepared for

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REMEDIAL INVESTIGATION/FEASIBILITY STUDY

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EXECUTIVE SUMMARY

Introduction

This Remedial Investigation/Feasibility Study (RI/FS) report presents the results of investigation and feasibility studies required by Cleanup and Abatement Order No. R9-2004-0258 (the CAO) issued by the San Diego Regional Water Quality Control Board (RWQCB, 2004). The CAO was revised on May 17, 2005 (RWQCB, 2005a) with subsequent addenda adopted on July 22, 2005 (RWQCB, 2005b) and November 8, 2006 (RWQCB, 2006). The objective of this RI/FS report is to present the results of Site investigations, human health risk assessments, and the evaluation of potential remedial alternatives for each Area of Potential Concern (AOPC) identified in the Site Characterization Report (Geosyntec, 2005). Recommendations for remedial action at each AOPC are also provided.

Remedial Investigation

Additional investigations, including bench-scale studies, were performed for AOPCs Building 158, Building 131/242, Building 120, and the Convair Lagoon vicinity to more accurately evaluate, design, and plan remedial options. These additional investigations further delineated the lateral and vertical extent of impacts in the Building 120, Building 131/242, Building 158, and Convair Lagoon areas.

The nature and extent of impacts has been adequately defined to perform the risk assessment and feasibility study. The results of two bench-scale studies are presented. These studies evaluated the use of Enhanced In-Situ Bioremediation (EISB) for treatment of VOCs in groundwater and the relative effectiveness of zero valent iron (ZVI) versus ferrous sulfate for reduction of hexavalent chromium in groundwater.

Risk Assessment

A summary of the results of the Site-wide human health risk assessment is presented. Risk-based concentrations (RBCs) were developed to identify areas of the Site that may warrant remediation based on reasonable expectations of future land use at the Site. These RBCs were then used to screen the AOPCs using the calculated RBC for each compound, for each exposure scenario. AOPCs where concentrations of constituents in soil, soil gas, or groundwater exceeded any RBC were considered an AOC. Through this process, eight AOCs have been identified:

- Building 131/242;
- Building 156;
- Building 158;
- Building 102;
- Building 120 South;
- Building 130/166 AST/120/121;
- Former Maintenance Yard; and
- Building 180.

Feasibility Study

A feasibility study of potential remedial alternatives was conducted for each AOC and AOPC. This feasibility study (FS) consists of a screening analysis of potential remedies and a more detailed feasibility analysis of remedies considered potentially appropriate. The following technologies were retained for further consideration within the FS.

- No action;
- Monitored natural attenuation (MNA);
- Enhanced In-Situ Bioremediation (EISB);
- In-situ reduction (ISR) using Ferrous Sulfate;
- In-situ soil mixing using Ferrous Sulfate:
- In-situ reduction (ISR) using emulsified vegetable oil (EVO);
- Two-phase extraction (TPE);
- Soil vapor extraction (SVE);
- Chemical Oxidation/Biostimulation
- Targeted excavation;
- Potential NAPL or metals excavation; and
- Whole AOC/AOPC excavation.

Conceptual Remedial Action Plan

Based on the FS, recommended remedial options were developed for each AOC and AOPC. A conceptual remedial action plan (RAP) is presented with the following recommended remedial options:

- AOC Building 131/242 – EISB with targeted excavation;
- AOC Building 156 – Targeted excavations;
- AOC Building 158 – In-situ reduction by EVO with targeted excavation;

- AOC Building 102 – Targeted excavation
- AOC Building 120 South – Targeted excavation;
- AOC Building 130/166 AST/120/121 – EISB with targeted excavations;
- AOC 30-Inch SWCS – targeted excavation
- AOC Former Maintenance Yard – EISB;
- AOC Building 180 – EISB with targeted excavation;
- AOPC Explosives Area – Alternative excavation;
- AOPC Test Cell#4/Area D – To be determined based on soil gas evaluation/LNAPL;
- AOPC Building 142 – No Action;
- AOPC Southeast of Building 146 – No Action;
- AOPC Building 120 West – Alternative excavation;
- AOPC Building 222/228 – Alternative excavation; and
- AOPC South of Building 121 – No Action.

RI/FS Appendix A

The RI/FS Appendix A presents the feasibility study of potential remedial alternatives for the pathways identified as potentially completed within the Risk Assessment Appendix A (Geosyntec, 2010) for off-site groundwater and existing impacted sediment within the SWCS. Recommendations for remedial action are also provided.

The feasibility study evaluates potential options for mitigation of these impacts on the basis of effectiveness, implementability, protection of human health and the environment, and cost.

The conceptual remedial action plan for existing sediment within the 60-inch SWCS is sediment cleanout following site demolition and tributary removal. The recommended remedial action for off-site groundwater impacts in the Convair Lagoon Vicinity will be continued groundwater monitoring to confirm model results showing that Site-related groundwater impacts are unlikely to migrate to Convair Lagoon at concentrations exceeding CTR standards.

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CERTIFICATION

I certify under penalty of perjury that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Edgard Bertaut
Senior Environmental Manager
TDY Industries Inc.

Date

1.0 INTRODUCTION

This Remedial Investigation/Feasibility Study (RI/FS) report presents the results of investigation and feasibility studies required by Cleanup and Abatement Order No. R9-2004-0258 (the CAO) issued by the San Diego Regional Water Quality Control Board (RWQCB, 2004) for alleged Discharges of Waste from 2701 North Harbor Drive in San Diego, California (the Site) (Figure 1-1, Figure 1-2). The CAO was revised on May 17, 2005 (RWQCB, 2005a) with subsequent addenda adopted on July 22, 2005 (RWQCB, 2005b) and November 8, 2006 (RWQCB, 2006a) and requires TDY Industries, Inc., TDY Holdings, LLC, and Teledyne Ryan Aeronautical Company (TDY) to: (1) cleanup and abate discharges; (2) perform Site investigation and characterization; (3) perform interim remedial actions; (4) perform a RI/FS; (5) prepare a remedial action plan; and (6) cleanup and abatement completion verification.

This document has been prepared to address the entire Site and supersedes the previously prepared "Western Area Remedial Investigation/Feasibility Study" (Geosyntec, 2006a), which was prepared to assist with a previous conceptual phased approach to redevelop the Site. Although several interim remedial actions have subsequently been performed at the Site, this document evaluates all areas of concern (AOCs) and Areas of Potential Concern (AOPCs) based on Site conditions as described in the Site Characterization report (Geosyntec, 2005) and subsequent data collected during the Remedial Investigation. More recent data has been included where it identifies a new AOC/AOPC, expands the constituents of concern within an existing AOC/AOPC, provides data for the analysis for the effectiveness of remedial options, or significantly adds to the overall understanding of the distribution of Site impacts.

This report has been prepared by Mr. Chris Lieder PG, Ms. Jennifer Schwartz, PE and Mr. Brian Hitchens, PG, C.HG. This report was reviewed by Mr. Sam Williams, PG, C.HG. in accordance with the peer review policy of the firm.

1.1 Remedial Investigation/Feasibility Study Objective

The objective of this RI/FS report is to present the results of Site investigations, human health risk assessments, and the evaluation of potential remedial alternatives for each AOPC, identified in the Site Characterization Report (Geosyntec, 2005), at the Site. Recommendations for remedial action at each AOPC are also provided. This document has been prepared in accordance with Directives D.3.a and D.3.b of the CAO.

The RI/FS Appendix A presents the feasibility study of potential remedial alternatives for the pathways identified as potentially completed within the Risk Assessment

Appendix A (Geosyntec, 2010) for off-site groundwater and existing impacted sediment within the SWCS. Recommendations for remedial action are also provided.

The feasibility study evaluates potential options for mitigation of these impacts on the basis of effectiveness, implementability, protection of human health and the environment, and cost.

The conceptual remedial action plan for existing sediment within the 60-inch SWCS is sediment cleanout following site demolition and tributary removal. The recommended remedial action for off-site groundwater impacts in the Convair Lagoon Vicinity will be continued groundwater monitoring to confirm model results showing that Site-related groundwater impacts are unlikely to migrate to Convair Lagoon at concentrations exceeding CTR standards.

1.2 Report Organization

The remainder of this report consists of the following:

- Section 2, "*Hydrogeologic Conditions*," presents a summary of the general location of the Site, the Site geology, and hydrogeology;
- Section 3, "Evaluation of Background Conditions" summarizes data from the Site Characterization Report regarding background soil and groundwater conditions at the Site and identifies AOPCs based on the observed areas with concentrations exceeding background;
- Section 4 "*Remedial Investigation*," summarizes the Site data collected to complete the feasibility study and presents the results of the bench-scale studies;
- Section 5, "*Risk-Based Concentrations and Area of Potential Concern Evaluation*" summarizes conclusions from the risk assessment, presents calculated RBCs, and screens the AOPCs against these risk-based criteria to identify AOCs;
- Section 6, "*Feasibility Study*," presents the screened potential remedial alternatives for each AOC and AOPC, and detailed evaluations of each;
- Section 7, "*Conceptual Remedial Action Plan*," presents the recommended action for each AOC and AOPC, and a conceptual implementation plan; and

- Section 8, "*References,*" lists the documents cited in this report.

2.0 HYDROGEOLOGIC CONDITIONS

In accordance to directive D.3.a.(2) through (4) of the CAO, this section summarizes the general location and hydrogeologic conditions at the Site. The Site ownership and operating history is presented in several previously submitted documents including an Environmental Assessment prepared by PES Environmental (2001), the Site Characterization Work Plan (SSPA and Geosyntec, 2005), the Site Characterization Report (Geosyntec, 2005), the Western Area RI/FS Work Plan (Geosyntec, 2006a), and the RI/FS Work Plan (Geosyntec, 2006b). That history and information is incorporated by reference.

2.1 Geology

The Site was originally tidelands of the San Diego Harbor. The area was filled with material dredged from San Diego Harbor from 1936 to 1939 during the creation of Lindbergh Field and the U.S. Coast Guard Station. The Site is located approximately 200 feet north of Convair Lagoon and the San Diego Bay. Field investigations indicate the upper 8 to 10 feet of soil at the Site consists of bay fill, primarily composed of mixed silty sand and clay with interbedded shell hash. Below the fill material is fine-grained sands, silts, and interbedded clays characteristic of the pre-existing bay mud. The transition from bay mud to the Bay Point Formation is gradational beginning at approximately 35 feet below ground surface (bgs). Representative hydrogeologic cross-sections of specific areas of the Site (locations shown on Figure 2-1) are depicted in Figures 2-2 through 2-5.

2.2 Local Hydrogeologic Conditions

The Site is located within the coastal plain section of San Diego Drainage Province, approximately 250 feet north of Convair Lagoon and the San Diego Bay. The San Diego Basin Plan (RWQCB, 2006) identifies the Site location as a portion of the Lindbergh Hydrologic Sub Area (8.21) of the San Diego Mesa Hydrologic Area within the Pueblo San Diego Hydrologic Unit. Groundwater in the Lindbergh Hydrologic Sub Area is designated as non-beneficial use and has been exempted from municipal drinking water designation by the RWQCB. Groundwater at the Site occurs at approximately 6 to 8 feet bgs. Groundwater elevations fluctuate diurnally with tidal variations in the San Diego Bay.

The surface water of the San Diego Bay has been designated for many beneficial uses including industrial service supply, navigation, contact and non-contact recreation, fishing, and wildlife habitat. Presently, surface runoff from the Site is directed through

the 54-inch storm drain tributaries, the 60-inch storm drain, 30-inch east storm drain, 18-inch storm drain to San Diego Bay and the 30-inch storm drain to San Diego Bay.

Physical properties of the Site soils were characterized during Site investigation activities. Samples were collected on Site from 3 to 55 feet bgs with effective porosity ranging from 18% and 48%. Based on Site observations, the average effective porosity is estimated to be 25%. Saturated hydraulic conductivity was determined to be in approximately 1×10^{-5} cm/sec, in a core sample of the shallow saturated zone, collected approximately 11 feet bgs by Geosyntec in March 2006.

2.2.1 Groundwater Flow Characterization

Groundwater monitor wells have been installed throughout the Site during the course of numerous investigations (Figure 2-1). Groundwater elevation data were collected across the Site on August 21, 2007 to evaluate groundwater gradient and flow direction. Groundwater elevations were collected by two teams and all elevations were recorded within 3 hours within one tidal cycle. Groundwater generally flows from north to south at a gradient of between 0.0005 and 0.0022 ft/ft. The gradient appears to increase adjacent to storm drains and the Convair Lagoon (Figure 2-6).

On July 27, 2005, variations in groundwater elevations between high and low tide events were evaluated. Measured water levels were observed to fluctuate from 0 to 3.04 feet between high and low tide. Generally wells located closer to the bay and near utility/storm drain corridors experienced the greatest influence from tidal variations. However, only wells on the southeastern portion of the Site (monitor wells BLD120-MW4 and BLD120-MW5) had variations of greater than 1 foot. These wells are located close to Convair Lagoon and the 30-inch east SWCS. All other wells showed less than 0.25 feet tidal fluctuation, with an average fluctuation of 0.06 feet.

One groundwater well (GT-4) indicates that groundwater may be tidally influenced in the immediate vicinity of the 54-inch storm drain. Groundwater elevations in this well are typically 1 foot lower than an adjacent well located 15 feet away. This also indicates that this effect is localized and does not impact groundwater over the vast majority of the Site.

Groundwater velocity onsite is estimated to range between 0.02 and 3.0 ft/year, based on a range of hydraulic conductivity between 1.0×10^{-5} to 3.0×10^{-4} cm/sec (Appendix C, H&A 2004), a gradient ranging between 0.0005 ft/ft and 0.0022 ft/ft, and an estimated effective porosity of 25%.

3.0 EVALUATION OF BACKGROUND CONDITIONS AND IDENTIFICATION OF AREAS OF CONCERN

In accordance with directive D.3.a.(1), this section presents information collected during the Site characterization process on the nature and extent of constituents of concern which have been identified at the Site above background.

Inorganic constituents such as metals and cyanide occur naturally in the environment. A determination of whether Site-related activities have resulted in elevated concentrations of these constituents requires an understanding of the range of background concentrations representative of natural conditions. Existing Site data for metals and cyanide in soil and groundwater were evaluated to derive site-specific maximum background concentrations, following guidance provided in the California Department of Toxic Substances Control document Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities, Final Policy (DTSC, 1997). The site-specific maximum background concentrations for soil and groundwater are presented in Table 3-1.

Because organic constituents do not typically occur naturally, all detectable concentrations of VOCs, SVOCs, Petroleum Hydrocarbons, and PCBs are assumed to be anthropogenic. As such, these constituents are identified as being in excess of background where detected.

All constituents positively detected in at least one sample at a concentration exceeding background were identified in the Risk Assessment (Geosyntec, 2007) as constituents of potential concern (COPCs). In accordance with directive D.3.a of CAO R9-2004-0258, the distribution of these COPCs is identified in Figures 3-1 and 3-2.

3.1 Definition of Areas of Potential Concern

AOPCs at the Site are specific areas where COPCs have been detected above Site background or appropriate screening criteria, as described in the Site Characterization Report (Geosyntec, 2005) (Figure 1-3). The Building 120 AOPC has been subdivided from its initial description in the Site Characterization Report (SCR) to more accurately describe three individual AOPCs within the Building. The AOPCs from west to east are as follows (Figure 1-3):

- **AOPC Building 131/242** – Soil, groundwater, and soil gas impacted predominantly with volatile organic compounds (VOCs) located between Buildings 131 and 242;

- **AOPC Explosives Area** – An area at the northwest corner of the Site, where a soil sample contained greater than 1.0 mg/kg polychlorinated biphenyls (PCBs).

- **AOPC Building 156** – Isolated zones of groundwater impacted with VOCs, total petroleum hydrocarbons (TPH), soil impacted with VOCs, TPH, metals, and PCBs, and soil gas impacted with VOCs located beneath Building 156;

- **AOPC Test Cell #4/Area D** – An underground storage tank (UST) area formerly containing light non-aqueous phase liquid (LNAPL) impacts (pending closure by RWQCB);

- **AOPC Building 158** – Soil and groundwater impacted with chromium, hexavalent chromium (CrVI), and isolated LNAPL impacts in Building 158, and VOC impacts in soil gas immediately to the southeast of Building 158;

- **AOPC Building 142** – A former UST site with minor VOC impacts in groundwater;

- **AOPC Southeast of Building 146** – An area near the southeast corner of Building 146 where vinyl chloride was detected in groundwater;

- **AOPC Building 102** – A former UST site with TPH and VOC impacts in soil.

- **AOPC Building 120 West** – An area in the west end of Building 120 where a soil sample contained greater than 1.0 mg/kg PCBs.

- **AOPC Building 222/228** – An area northwest of Building 125/126 where chromium, cobalt, lead, mercury, nickel, zinc, and PCBs were detected above background in soil;

- **AOPC Building 130** – Although impacted soils within this area were excavated and disposed offsite under DTSC oversight in accordance with a RCRA closure plan, groundwater PCE and TCE impacts contiguous with AOPC Building 120 were observed and remain in this area;

- **AOPC Building 120 South** – An area in the south-central portion of Building 120 where TPH has been detected in soil, and LNAPL with associated PCBs has been observed in excavations and test pits;

- **AOPC Building 120** – An area beneath and in the vicinity of the former sheet metal fabrication area of Building 120 where PCE, TCE, cis-1,2-DCE, VC, PCBs, and 1,4-dioxane have been detected in soil, soil gas or groundwater;

- **AOPC Building 121** – An area in the eastern portion of Building 121 where elevated VOCs were detected in groundwater and soil gas, contiguous with "Building 120" impacts;

- **AOPC South of Building 121** – An area in the vicinity of catch basin CB-155 where a soil sample contained greater than 1.0 mg/kg PCBs in soil;

- **AOPC Building 166 Above Ground Solvent Tank (AST)** – An area associated with a former AST historically containing chlorinated solvents, which was located a**l**ong the northern border of the Site, between Buildings 130 and 166. Groundwater and soil gas contain detections of VOCs above RBCs and impacts are contiguous with AOPC Building 120;

- **AOPC Former Maintenance Yard** – An area northeast of Building 161 where groundwater and soil gas samples contain elevated PCE concentrations; and

- **AOPC Building 180** – An area in the vicinity of the loading dock on the south side of Building 180. VOCs have been detected in groundwater; TPH, mercury, cobalt, zinc, and lead have been detected at concentrations exceeding background; and PCBs have been detected at concentrations greater than 1.0 mg/kg in shallow soils.

The storm water conveyance system (SWCS) drains the entire Site. The 54-inch storm drain, 30-inch west storm drain, 60-inch storm drain, 30-inch east storm drain, and 30-inch storm drain to San Diego Bay and some of their tributaries were determined to have sediment containing PCBs at concentrations greater than 1.0 mg/kg. The SWCS was cleaned as an interim action during 2006, per the CAO, as described in the storm drain cleanout work plans and report (Geosyntec, 2006c, 2006d, 2006e, 2006e, 2007b). Although this sediment was addressed during the 2006 cleanout event, there remain ongoing concerns related to continuing elevated PCB concentrations within the 60-inch SWCS and potentially within certain laterals thereto. The proposed demolition of the Site will include removal of all on-site storm drains with the exception of the 54-inch and 60-inch SWCS main trunk lines.

Soil, groundwater, and sediment impacts to San Diego Bay via the formation and the storm water conveyance system (SWCS) are addressed in Appendix A to the Risk Assessment. These pathways include:

Groundwater to San Diego Bay Migration Pathways:

- **Impacted groundwater to San Diego Bay through the shallow/deep interval:** This pathway is assessed by using groundwater quality data from shallow and deep monitor wells adjacent to Convair Lagoon, as compared to the California Toxics Rule (CTR). A groundwater model is presented which evaluates the potential for trace PCB impacts observed in Convair Lagoon vicinity monitoring wells to discharge to Convair Lagoon.
- **Impacted groundwater from the Site to the SWCS backfill to San Diego Bay:**
  This pathway is assessed based on soil physical properties and data from wells and borings advanced adjacent to storm drains which penetrate the groundwater table.
- **Impacted groundwater from the Site into seeps in the SWCS to San Diego Bay:**
  This pathway is assessed using groundwater quality data from monitor wells and groundwater grab samples adjacent to the SWCS.

Soil/Sediment to San Diego Bay Migration Pathways:

- **Impacted soil/sediment from the surface of the Site through the SWCS to San Diego Bay:**
  This pathway is assessed based on post-demolition Site condition and BMPs to be employed at the site.
- **Impacted storm drain backfill material through the SWCS to San Diego Bay:**
  This pathway is assessed based on an evaluation of the data collected from the backfill of the 60-inch SWCS.
- **Impacted sediment within the SWCS to San Diego Bay**
  This pathway is assessed using data collected from tributary filter sock samples, sediment movement monitoring, and additional sediment data from the channel and SWCS.

Soil/Sediment to Construction/Maintenance Worker Pathway:

Potential health risks to construction/maintenance workers are evaluated in the Risk Assessment Appendix A using data collected from tributary sock samples, sediment movement monitoring, and additional sediment data from the channel and SWCS. Interim precautions such as the use of gloves and hand washing are recommended to mitigate potential risk through this pathway until the impacted SWCS sediment pathway is addressed.

Based on these pathway analyses, impacted sediment within the SWCS and direct groundwater migration to Convair Lagoon were identified as potentially complete pathways. Remedial alternatives are screened for these pathways in Appendix A.

4.0 REMEDIAL INVESTIGATION

Site characterization activities and results are documented in the Site Assessment Activity Report, the Site Characterization Report, the 54-Inch Storm Drain Sampling Report, and the 2004 Haley & Aldrich (H&A) Baseline Site-Wide Investigation (Geosyntec, 2002, 2005, 2006g; H&A 2004). That information which includes information describing the nature and extent of constituents is incorporated by reference.

Additional investigations, including bench-scale studies, were performed for AOPCs Building 158, Building 131/242, Building 120, and the Convair Lagoon vicinity to more accurately define the extent of constituents and evaluate, design, and plan remedial options. These additional investigations are presented below.

4.1 AOPC Building 158 Investigations

Soil and groundwater samples were collected and analyzed to further delineate the horizontal and vertical extent of TPH, total chromium, and hexavalent chromium (CrVI). A bench-scale study was conducted to evaluate the effectiveness of zero valent iron (ZVI) and ferrous sulfate ($FeSO_4$) to reduce CrVI to trivalent chromium (CrIII).

4.1.1 Delineation of Impacts

Soil and groundwater samples were collected at three locations on April 13, 2006 using a direct push rig (Figure 2-1). Borings T-47, -48, and -49 were advanced to approximately 6 and 11 feet bgs where soil and groundwater samples were collected. The central boring, T-48, was additionally advanced to 35 feet bgs to vertically delineate the extent of impacts. Each sample was analyzed for TPH in soil and TPH, total chromium, and CrVI in groundwater. Boring logs and field sample-collection forms are presented in Appendix B. Laboratory analytical reports are presented in Appendix C. Sample locations and results are shown in cross-section A-A' on Figure 2-2, and summarized in Table 4-1.

During this additional delineation, the highest concentration of TPH in soil was observed in soil sample T-48-6B at 221 mg/kg, collected from the approximate center of Building 158. The highest concentration of TPH in groundwater was observed in sample T-49GW-11 at 1 mg/L. This sample was collected in close proximity to a previous direct push sample collected at location 0158-GW-16 in 2003 in which LNAPL was observed. TPH concentrations observed in the 2006 Building 158 sampling event do not indicate the presence of residual LNAPL.

Elevated concentrations of CrVI in groundwater were detected in the shallow portions of T-49 (280 mg/L) and T-48 (580 mg/L), located in the southern and central portion of Building 158, respectively. The northern hydropunch location contained no detectable CrVI and 0.0034 mg/L of total chromium. A deeper sample was collected at 35 feet bgs to evaluate the vertical extent of chromium and TPH impacts, this sample contained 0.16 mg/L CrVI, a three order of magnitude reduction over approximately 20 feet. These results indicate chromium impacts are limited to shallow groundwater in the southern portion of Building 158 (Figure 2-2).

4.1.2 Bench Study: Reduction of Hexavalent Chromium Using Zero Valent Iron or Ferrous Sulfate

The objective of this study was to evaluate whether CrVI in saturated soil and groundwater could be reduced to CrIII in-situ, using either ZVI or $FeSO_4$. Both ZVI and $FeSO_4$ use the process of electron reduction to change the valent state of the chromium.

4.1.2.1 Sample Collection

Soil and groundwater were collected on April 13, 2006 during characterization activities in Building 158 using direct push techniques. A total of nine-2 foot Shelby tubes of saturated soil were collected from borings T-47, -48, and -49 between 7 and 11 feet bgs. A total of 3 liters of groundwater were collected from boring T-48 at 11 feet bgs using a peristaltic pump under low flow conditions. The samples were submitted to SiREM under chain of custody protocol.

4.1.2.2 Methodology

Two phases of the study were conducted. The first phase was associated with reduction of CrVI in soil. The second phase evaluated the reduction of CrVI in groundwater.

Soil Evaluation

Soil cores were homogenized and divided into 10 bags, one for each treatment option: active control (no amendment added); microscale ZVI at 0.1, 1, and 10% (mass:mass); granular ZVI at 0.1, 1, and 10%; and $FeSO_4$ at 0.05, 0.5, and 1%. Each bag contained a total mass of 750 grams of soil plus treatment (i.e., for 10% microscale ZVI, 75 grams of microscale ZVI was added to 675 grams of soil to make a total of 750 grams). Groundwater was then added to each bag of saturated soil to mimic saturated conditions at the Site.

Microcosms were constructed from each bag by filling six-125 mL (nominal volume) wide mouth glass bottles (reactors) with approximately 125 grams saturated soil material leaving a nominal headspace for gas production. Site groundwater was added evenly to the surface of the reactors and allowed to percolate down creating saturated conditions at the bottom and less saturated conditions in the surface layer (top) of the soil column.

Microcosms remained at room temperature and sampled at 24 and 72 hours. Samples were sent to an external laboratory for chromium analysis. Additional baseline soil analyses such as pH and moisture content were conducted at the beginning and end of the experiment.

Groundwater Evaluation

A second phase of chromium treatability study was performed to evaluate the effectiveness of nanoscale ZVI and $FeSO_4$ to treat hexavalent chromium in groundwater. Microcosms were constructed using 30 grams of the homogenized soil and 150 milliliters of groundwater per 250 milliliters (nominal volume) bottles. An active control, 1% nanoscale ZVI treatment, and 18.6 g/L $FeSO_4$ treatment were prepared in duplicate and analyzed for total chromium and CrVI after 24 hours of the addition of the amendment.

4.1.2.3 Bench Study Results and Discussion

Before any treatment, the homogenized soil with groundwater had a total chromium concentration of 270 mg/kg and CrVI concentration of 70 mg/kg. The active control contained concentrations of total chromium and CrVI up to 289 and 118 mg/kg, respectively. These results are representative of a baseline condition, prior to any treatment. The results of the soil study are presented in Appendix D.

The 10% granular ZVI had the largest reduction of CrVI after 72 hours with an average concentration between triplicates of 18 mg/kg (Appendix D). The 1% $FeSO_4$ treatment had the next largest reduction of CrVI with an average concentration between the triplicates after 72 hours of 22 mg/kg. The 0.5% $FeSO_4$ treatment also had significant reduction. All $FeSO_4$ treatments reduced CrVI concentrations significantly within the first 24 hours, indicating the reaction proceeds rapidly. Microscale ZVI did not show any significant reduction in CrVI concentrations. Total chromium concentrations in soil increased after the addition of microscale, and even more so with granular (Appendix D). This may have occurred due to chromium precipitating out of the

groundwater. Based on these data, $FeSO_4$ and granular ZVI appear to be suitable for the reduction of CrVI to CrIII in soil and groundwater at the Site.

Before treatment, baseline total and CrVI results in groundwater samples were 510 and 612 mg/L respectively. After 24 hours, the control sample showed little change (589 mg/L and 592 mg/L total chromium and CrVI, respectively). The nanoscale ZVI microcosm showed a reduction of total chromium and CrVI concentrations (375 mg/L and 394 mg/L, respectively). The $FeSO_4$ microcosm indicated complete reduction of CrVI after 24 hours with total and CrVI concentrations of 1.2 mg/L and <0.005 mg/L, respectively. Total concentrations are likely reduced in groundwater due to the relative insolubility of CrIII, which would cause the CrVI to precipitate after reduction to CrIII, resulting in a reduction of total dissolved chromium (Appendix D).

4.1.3 Building 158 Pilot Study Results

In October 2007, a pilot study was commenced by injecting $FeSO_4$ solution into the groundwater through 17 direct push points. After injections were completed, groundwater monitoring was performed to evaluate the effectiveness of the $FeSO_4$ injections. A groundwater monitor well in the center of the injection area showed an immediate reduction in total and hexavalent chromium concentrations in groundwater in December 2007. However, concentrations subsequently rebounded to pre-injection concentrations within one year of the injection event (Geosyntec, 2009).

These data indicate that although the $FeSO_4$ solution was effective at reducing the readily available hexavalent chromium, the reagent was likely unable to penetrate into low-permeability lenses. The residual hexavalent chromium trapped in these lenses then re-equilibrated with the surrounding groundwater once the $FeSO_4$ reaction was spent.

Effective in-situ remediation of the remaining CrVI impacts will require these low permeability lenses to be addressed either through remedial actions which improve the ability to directly affect these layers or injections which are able to sustain reducing conditions for an extended time period to adequately promote reduction throughout the low permeability zones.

4.2 AOPC Building 131/242 Investigation

Groundwater samples were collected from newly installed deep monitor wells, and downgradient of Building 131/242 to further delineate the vertical and horizontal extent of VOCs and 1,4-dioxane in groundwater. A bench-scale study was conducted to

evaluate enhanced in-situ bioremediation (EISB) for VOCs near Building 131/242 and Building 120.

4.2.1 Vertical Extent of VOCs and 1,4-Dioxane

Two deep monitor wells were installed on March 14, 2006 adjacent to existing shallow monitor wells B131-MW2 and B131-MW3 to further delineate the vertical extent of VOCs in the area of Building 131/242, (Figure 2-1). Wells B131-MW2D and B131-MW3D were completed to a total depth of 40 feet bgs and are screened from 35 to 40 feet bgs. The boring logs and well construction diagrams are presented in Appendix B. A hydrogeologic cross-section of this area is presented in Figure 2-3.

The wells were sampled for VOCs and semi-volatile organic compounds (SVOCs) by bladder pump and low flow procedures in accordance with the San Diego County Department of Environmental Health (DEH) Site Assessment and Mitigation Manual (DEH, 2004). The bladder pump was set in the approximate middle of the screen at 37.5 feet bgs. The results from this event, as well as the most recent results from the adjacent shallow wells, are shown in Table 4-2. The laboratory analytical reports are presented in Appendix C.

Observed VOC concentrations in the deep monitor wells are significantly lower than those observed in the shallow wells. The significant attenuation of VOCs over the 20-foot vertical span between the shallow and deep paired monitor wells indicates that dense NAPL (DNAPL) is not present at depth.

4.2.2 Horizontal Extent of 1,4-Dioxane

Groundwater samples were collected from three hydropunch locations, T-44, -45, and -46, downgradient of Buildings 131/242 on March, 30 2006, to further evaluate the downgradient extent of 1,4-dioxane in groundwater (Figure 2-1). The sampling results are presented in Table 4-3. Boring logs are presented in Appendix B. The laboratory analytical reports are presented in Appendix C.

Observed concentrations indicate 1,4-dioxane impacts decline from the Building 131/242 area across a narrow zone (Figure 4-1), and are not detectable in the deeper groundwater interval. The extent of 1,4-dioxane has been sufficiently defined to perform the risk assessment and feasibility study.

4.2.3 Bench Study: Treatment of VOCs in Groundwater by Enhanced In-situ Bioremediation

The objective of this study was to evaluate whether EISB is a viable option to reduce concentrations of VOCs in Site groundwater. Bench-scale microcosms evaluated the attenuation of VOCs under ambient conditions with the addition of various electron donors and with the addition of microbial cultures in addition to electron donor.

4.2.3.1 Sample Collection

On March, 14 2006, eleven 1-foot Shelby tubes of soil were collected from 6.5 to 18 feet bgs during the installation of deep monitor well B131-2MWD. On 15 March 2006, 12 liters of groundwater was collected from shallow monitor well B131-MW2, which is screened from 5 to 15 feet bgs. The water was collected in twelve 1-liter HDPE containers using a peristaltic pump under low flow conditions. The samples were submitted to SiREM under chain of custody on March, 21 2006.

4.2.3.2 Methodology

Microcosms were constructed by filling 250 milliliter glass bottles with approximately 150 to 200 mL of groundwater and 60 g of Site soil leaving a small headspace for gas production (e.g., ethene, carbon dioxide, methane). All treatments were constructed in triplicate. The following table summarizes each treatment/control that was prepared for the study:

Microcosm	Description
Anaerobic sterile control (ANSC)	Autoclaved and amended with mercuric chloride and sodium azide
Anaerobic active control (ANAC)	No amendments
Soluble electron donor amended (LAC)	Amended with lactate as electron donor
Slow release electron donor amended (EVO)	Amended with emulsified vegetable oil as electron donor
Soluble electron donor amended and bioaugmented (LAC+KB-1)	Amended with lactate as electron donor and bioaugmented with microbial culture
Slow release electron donor amended and bioaugmented (EOS+KB-1)	Amended with emulsified vegetable oil as electron donor and bioaugmented with microbial culture

One replicate of each treatment was amended with resazurin to monitor redox conditions. Resazurin is clear under anaerobic conditions but turns pink when exposed

to oxygen. Microcosms were sealed with Mininert™ valves to allow repetitive sampling of each microcosm, and to allow addition of electron donors/acceptors to sustain metabolic/biodegradation activities. In order to maintain anaerobic conditions construction of the microcosms were conducted in a disposable anaerobic glove-bag; anaerobic microcosms were stored and sampled in an anaerobic chamber. Geologic materials added to the sterile control microcosms were autoclaved and groundwater used in these microcosms was amended with mercuric chloride and sodium azide to inhibit microbial activity. The intrinsic control microcosms, designed to measure intrinsic biodegradation activity, did not receive electron donor amendments. Treatment microcosms were amended with electron donor (i.e., lactate or emulsified vegetable oil) at approximately 10 times the stoichiometric demand of the chlorinated VOCs (cVOCs) and selected inorganic compounds (i.e., nitrate, sulfate, and oxygen). Bioaugmented treatment microcosms were amended after 28 days with a dehalorespiring microbial consortium KB-1™ (KB-1) to assess the ability of these bacteria to promote or accelerate complete dechlorination.

Biotreatability study microcosms were incubated for a period of 76 days. Aqueous samples were collected from the control and treatment microcosms every two to three weeks for analysis of cVOCs including their expected degradation intermediates (e.g., PCE, TCE, cis-1,2-DCE, and VC) and end products (e.g., ethene, ethane). At selected time points, samples were collected for analysis of added soluble electron donors (i.e., volatile fatty acids [lactate, acetate, and propionate]). Other analyses included the measurement of pH, methane, and anions (i.e., sulfate, nitrate, chloride, and phosphate). Sample intervals for individual treatments were modified (either shorter or longer intervals) during the treatability study based on observed microbial activity, cVOC degradation rates, and depletion of electron donors/acceptors.

4.2.3.3 Bench Study Results and Discussion

The results of the samples collected from the microcosms and analyzed for cVOCs during the biotreatability study are illustrated in Appendix E. The concentrations plotted are the averages of the three replicate sample results from each microcosm group.

As expected, there was no decrease in PCE, TCE, or cis-1,2-DCE concentrations and no increase in VC or ethene concentrations over the incubation period of the Anaerobic sterile control microcosms. The anaerobic active control microcosms also displayed similar results (Appendix E).

A decrease was observed in PCE concentrations for the lactate and emulsified oil amended microcosms (Appendix E). TCE and VC concentrations did not significantly change over the incubation period. The concentration of cis-1,2-DCE increased slightly likely due to microbial activity. Ethene was not detected. The results of the lactate and emulsified oil amended microcosms indicate there is a potential for naturally occurring dechlorinating bacteria to degrade cVOCs with the addition of an electron donor.

The emulsified oil and lactate amended microcosms which were bioaugmented with KB-1, showed decreases in PCE and TCE concentrations followed by an increase and then a decrease in cis-1,2-DCE and VC concentrations (Appendix E). All replicates of the emulsified oil + KB-1 treatment and one from the lactate + KB-1 treatment have achieved complete reduction of cVOCs to ethene. Sulfate has almost been completely reduced in one lactate + KB-1 replicate and all of the emulsified oil + KB-1 replicates. It is these microcosms that showed complete dechlorination of PCE and TCE through cis-1,2-DCE and VC to ethene. It appears that sulfate reduction is an important precursor to complete reductive dechlorination. Sufficient electron donor must be provided to cover the demand of all electron acceptors (of which sulfate is a major component). Overall, the emulsified oil + KB-1 treatment appears to perform at a faster rate than the lactate + KB-1 amendment. However, both treatments effectively reduce VOC concentrations within a faster time frame than with treatments consisting of only electron donor.

4.3 Pilot Study: Treatment of VOCs in Groundwater by Enhanced In-situ Bioremediation

A pilot study was performed in AOC Building 131/242 to evaluate the effectiveness of EISB in treating VOCs in groundwater (Appendix G). Temporary injection points were constructed for injection of the emulsified vegetable oil (EVO) and KB-1® microbial culture into the subsurface at 254 locations from 11 September to 4 October 2007. The injection points were installed by direct-push to an approximate depth of 15 feet bgs and were screened from 7 to 15 feet bgs. The injection screen was 1 ½-inch in diameter. The blank portion, from the top of the screen to ground surface, was larger (3 ¼-inches in diameter) to provide a more competent surface seal.

The injection points were installed on 12-foot centers in the portion of the AOC containing VOC concentrations indicative of the potential presence of dense non-aqueous phase liquid (DNAPL). Areas of the AOC with groundwater impacts above the RBC, but below concentrations indicative of potential DNAPL were injected on 14-foot centers (Appendix G). Approximately 1,310 gallons of 1% emulsified vegetable oil (EVO) solution, 0.14 gallons of microbial culture, and 310 gallons of unamended

municipal water were injected into each well across the 8-foot screen interval, equaling a total of approximately 1,620 gallons of fluid. It is expected that the initial 5-foot radius of influence (ROI) for each injection point will expand to approximately 7 feet over a two year period due to dispersion and migration of the EVO and microbial culture.

4.3.1 Pilot Study Groundwater Monitoring Results

A baseline sampling event was performed in advance of the implementation of the pilot study injections. Groundwater samples were collected from monitor wells B131-MW2, -MW6, and -MW5 for VOCs, ethane, ethene, methane, organic acids, chloride, nitrate, nitrite, sulfate, sulfide, and total organic carbon (TOC) (EISB sampling suite) using low flow purge methodology. Monitor well B131-MW3 was added to the EISB sampling program during the first quarter 2008 sample event.

In the baseline data, the presence of ethene throughout the study area, the absence of parent compounds (PCE, TCE) in the downgradient monitor wells, and the strong presence of daughter products in the downgradient monitor wells (cis-1,2-DCE, vinyl chloride, ethene) all support that natural degradation of chlorinated hydrocarbons was occurring prior to the addition of electron donor or microbial cultures.

4.3.1.1 Potential DNAPL Area Results

Post injection sampling was performed at 1, 3, and 6-months after final injections. Monitor well B131-MW3 was added to the post-injection performance monitoring schedule at the 3-month sample event. Samples were analyzed for the same parameters as the baseline sampling using low flow purge methodology. At 1-month, Gene Trac samples were collected at monitor wells B131-MW2, -MW5, and -MW6. Gene Trac samples measure the concentration of the active microbial strain *Dehalococcoides ethenogenes* (DHC) in the groundwater. A Gene Trac sample was collected from monitor well B131-MW3 at 3-months.

Monitor well B131-MW2 is located in the northern section of the area of potential DNAPL (Figure 2-1, 2-3, Appendix G Figure 3) and is located 3.2 feet from the nearest injection point. After the first month, RBCs had been achieved for tetrachloroethene (PCE) and trichloroethene (TCE). Cis-1,2-Dichloroethene (cis-1,2 DCE) was reduced from 3,200 µg/L to 1,900 µg/L, while an interim increase in vinyl chloride (VC) from 340 µg/L to 680 µg/L was observed. Ethene increased substantially from 13.1 µg/L to 1,220 µg/L. This data is indicative of complete chlorinated hydrocarbon degradation to ethene. The groundwater samples collected from B131-MW2 during the 3-month and

the 6-month sampling event contained no detectable concentrations of PCE or TCE, with cis-1,2-DCE and VC concentrations reduced to well below RBCs. Ethene concentrations detected in the 3-month and 6-month samples were lower than the concentrations detected in the 1-month sample, as a result of correspondingly lower VOC concentrations (Appendix G).

Monitor well B131-MW3 is located in the southern section of the area of potential DNAPL (Figure 2-1, 2-3, Appendix G Figure 3) and is located 5.6 feet from the nearest injection point. This well was added to the performance sampling schedule to evaluate the southern portion of the potential DNAPL zone. This well was not sampled during the baseline sampling event so the Site wide data collected in 2005 (Geosyntec, 2005) is used as an approximate baseline. When this well was first sampled 3-months after injection, groundwater samples contained no detectable chlorinated VOCs. The ethene concentration at 3-months was 431 µg/L. The 6-month sampling event showed similar chlorinated VOC and lower ethene (6.57 µg/L) concentrations.

4.3.1.2 Downgradient Results

Monitor well B131-MW6 is located in the center of the AOC (Figure 2-1, 2-3, Appendix G Figure 3), is located 4.5 feet from the nearest injection point, and did not contain baseline concentrations indicative of potential DNAPL. Groundwater samples collected from monitor well B131-MW6 show a decrease in cis-1,2-DCE from a baseline concentration of 22,000 µg/L to below the RBC within the first month. VC also decreased from 4,600 µg/L to 2,100 µg/L and ethene concentrations increased from 36.2 µg/L to 1,720 µg/L. The elevated ethene concentration indicates that complete degradation of VOCs is occurring. Chlorinated VOC concentrations continued to decline at the 3-month post injection sample event with a slight rebound observed of cis-1,2-DCE and VC during the 6-month monitoring event. Increasing ethene concentrations greater than 1,000 µg/L provide continued strong indication of complete degradation (Appendix G).

4.3.1.3 Summary and Recommendations

The Building 131/242 EISB pilot study has demonstrated the effectiveness of EISB at degrading chlorinated VOCs and achieving RBCs in the near term, and potentially ultimately achieving background concentrations in groundwater. During the pilot study, EISB was able to rapidly degrade VOC concentrations (including those potentially indicative of DNAPL) to RBCs in as quickly as 6-months. RBCs have been met in two of the four monitor wells with significant VOC reductions and elevated ethene concentrations indicative of complete dechlorination in the other two monitor

wells. Ongoing monitoring will be conducted to further document the results of the EISB pilot study in the Building 131/242 AOC.

Baseline data from the Pilot Study area shows that biodegradation is occurring naturally in this area as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates and time to reach background after the Pilot Study, VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation.

4.4 AOPC Building 120 Investigation

Soil and groundwater samples were collected on 12 October 2006 from four hydropunch borings along the north-south axis of the Building 120 AOPC to characterize the vertical extent and nature of VOC impacts (Figure 2-4). Soil samples were collected at the water table and groundwater samples were collected at the water table (10 feet bgs), 28 feet bgs, and the contact with the Bay Point Formation (38 feet bgs). Samples were analyzed for VOCs, SVOCs, and TPH. Groundwater analytical results from the hydropunch samples and monitoring well results from the First Quarter 2007 sampling event are presented in Table 4-4 and soil analytical results are presented in Table 4-5.

Shallow groundwater results indicate concentrations of VOCs roughly equivalent to the 2003 and 2005 Site characterization data collected by H&A and Geosyntec, respectively. Each of the four sampling locations show decreases of several orders of magnitude in VOC concentrations between the shallow and intermediate-depth sampling point (Figure 2-4). In T-50, cis-1,2-DCE drops from a groundwater concentration of 22,000 ug/L at 10 feet bgs to a concentration of 3.1 ug/L at 28 feet bgs. This trend is seen repeatedly for all constituents detected in the shallow groundwater, in all four hydropunch borings advanced for determination of vertical extent. Groundwater concentrations in the vicinity of Building 130 are discussed below. Based on these data, significant groundwater impacts associated with the Building 130/166 AST/120/121 area appear to be confined to within approximately 15 feet of the water table. The downgradient extent of impacts is defined by B120 MW-4 and -5 which show VOC concentrations to trace concentrations (Table 4-4).

4.5 AOPC Building 120 South Interim Actions

The extent of the Building 120 South excavation footprint increased from its original dimension of 34- by 27-feet to approximately 40- by 30-feet, due to RBC exceedances in some of the initial side wall and bottom confirmation samples. To better delineate the potential extent of impacted soil, step out direct push borings were advanced around the excavation. Results from direct push investigation helped to define the potential extent of hydrocarbon impacted soil (Geosyntec, 2009). The presence of LNAPL was also observed on the surface of the groundwater in the bottom of the southwestern quadrant of the excavation. The LNAPL contained a total PCB concentration of approximately 8.2 mg/kg. However, soil samples from the excavation contained a maximum total PCBs concentration of 0.25 mg/kg. Test pits were dug to the west and south of the excavation and also next to a former heavy machinery foundation east of the excavation (Geosyntec, 2009). LNAPL was observed within each of the test pits with PCB concentrations ranging from 1.9 mg/kg to 8.6 mg/kg. Building footings and obstructions prevented further step-out prior to building demolition.

4.6 Convair Lagoon Vicinity

The potential for impacted groundwater to migrate from the Site to Convair Lagoon in both shallow and deeper groundwater intervals was evaluated. Monitor wells MWCL-1, -3, and -5 were installed at 15 feet bgs with screened intervals from 5 to 15 feet bgs. Monitor wells MWCL-2, -4, and -6 were installed at the contact of the Bay Point Formation (approximately 42 feet bgs) and contain 5-foot screen intervals. Monitor well MWCL-7 was installed at 65 feet bgs and is screened from 60 to 65 feet bgs. Monitor well MWCL-8 was installed at 12 feet bgs in the backfill of the 60-inch SWCS and is screened from 7 to 12 feet bgs. The depth of the wells, lithology, and groundwater elevations are presented in cross-section D-D' (Figure 2-5).

Monitor wells MWCL-1, -2, -3, -4, -5 ,and -6 were sampled during the Third Quarter 2006, First Quarter 2007, and Third Quarter 2007 semi-annual groundwater monitoring events (Geosyntec, 2006h). During the First Quarter 2007 sampling event, MWCL-7 and -8 were added to the ongoing Convair Lagoon groundwater semi-annual sampling. The wells were sampled for TPH, SVOCs, and VOCs using low flow sampling methods. Limited impacts of VOCs and TPH were observed in the westernmost well cluster. Step-out hydropunch borings (T-54, and -55) were installed to further evaluate the lateral and vertical extent of these impacts. Groundwater samples collected from the central well pair contained no VOCs or TPH detections above laboratory reporting limits. Groundwater samples collected from the eastern well pair during the Third

Quarter 2006 and First Quarter 2007 contained low-level detections of 1,1-dichoroethane and 1,4-dioxane, while groundwater samples collected from the eastern well pair during the Third Quarter 2007 contained no VOCs or TPH detections above laboratory reporting limits. The well installed in the 60-inch SWCS backfill contained no PCBs, TPH, SVOCs, or VOCs above laboratory reporting limits during the Third Quarter 2007 monitoring event (Table 4-6), when it was added to the semi-annual groundwater monitoring program.

4.7 AOC Building 130

In 2010, groundwater samples collected south of Building 130 during the closure of the RCRA Drum/Drum Tank storage area indicated additional VOC impacts contiguous with the Building 120 groundwater VOC impacts. Groundwater samples were collected from five direct push samples, each of which exceeded the RBC for PCE with concentrations ranging from 378 ug/L to 631 ug/L and for TCE with concentrations ranging from 440 ug/L to 732 ug/L. This area is located approximately 25 feet east of the edge of the adjacent interim EISB treatment area performed along the eastern portion of Building 120 and contains the same COCs, and so it will be evaluated in this report as an extension of the Building 120 AOC.

5.0 RISK-BASED CONCENTRATIONS AND AREA OF POTENTIAL CONCERN EVALUATION

5.1 Summary of Risk Assessment

In accordance with directive D.3.a (5), (6), and (7) of the CAO, this section presents a summary of the Site-wide Risk Assessment (Geosyntec, 2007a). A human health risk assessment was conducted for the entire Site (Geosyntec, 2007a) superseding the previously submitted Western Area Risk Assessment (Geosyntec, 2006f). The Site-wide risk assessment followed guidelines set by the RWQCB, the California Environmental Protection Agency (CalEPA) Department of Toxic Substances and Control (DTSC), the DEH, and CalEPA's Office of Environmental Health Hazard Assessment (OEHHA), and United States EPA (USEPA). Based on the historical and planned uses of the Site, it is presumed that the entire Site will be redeveloped for future commercial/light industrial uses.

The southern boundary of the Site is situated approximately 250 feet from Convair Lagoon (San Diego Bay). Potential impacts to San Diego Bay from groundwater are addressed in Appendix A to the Site Wide Risk Assessment (Geosyntec, 2007). Current data from wells installed in the vicinity of Convair Lagoon indicate that on-Site groundwater impacts do not impact San Diego bay (Section 4.4). Impacted sediment within the 60-inch SWCS and 54-inch SWCS are also addressed in Appendix A to the Site Wide Risk Assessment. No quantitative onsite ecological risk assessment has been prepared as no onsite ecological receptors were identified.

The risk assessment consists of five major components:

- **Data Review and Evaluation:** A review of available data collected from the Site and contiguous areas which defines the nature and extent of environmental impacts identified at the Site and contiguous impacted areas; the identification of chemicals of potential concern (COPCs); and the identification of potential data gaps.

- **Exposure Assessment:** An assessment of the magnitude, frequency, duration, and routes of potential human exposures to Site-related COPCs. The exposure assessment considers both current and likely future uses of the Site and adjacent areas, and is based on complete exposure pathways to actual or probable human receptors. The exposure scenarios are summarized in a Conceptual Site Model (CSM), which includes the sources, affected media, release mechanisms, and exposure pathways for each identified

receptor population. Onsite ecological exposures were not evaluated quantitatively as there are no known onsite ecological receptors.

- **Toxicity Assessment:** A presentation of available information to identify the nature and degree of toxicity and to characterize the dose-response relationship for each COPC.

- **Risk Characterization:** A synthesis of exposure and toxicity information to yield quantitative estimates of potential cancer risks and noncancer hazards to defined receptor populations.

- **Uncertainty Analysis:** Discussion of the uncertainties associated with each of the four previous steps to assist decision-makers in evaluating the risk assessment results in the context of the assumptions and variability in the data used.

5.1.1 Exposure Scenarios

The Risk Assessment addressed potential adverse impacts to human health under four future exposure scenarios: 1) construction workers; 2) trench workers; 3) future industrial/commercial workers; and 4) future landscapers. A quantitative risk assessment was conducted using conservative, site-specific assumptions to estimate potential human health risk. Reasonable maximum exposure (RME) estimates were developed for the identified exposure scenarios. To estimate RMEs, reasonable conservative modeling assumptions and upper-bound default values were used for most exposure parameters (Geosyntec, 2007a).

The Risk Assessment also evaluated potential adverse impacts to human health using the maximum VOC concentrations detected in soil gas and groundwater adjacent to each respective structure under four current exposure scenarios: Potential commercial workers in the North and South Sky Chefs Buildings, a current San Park Attendant located south of the Site, and a current on-Site security guard. Each of these scenarios was evaluated using Default and Site Specific exposure scenarios. The potential cancer risk estimated using Default parameters did exceed the target risk goal. However, based on the site-specific exposure factors which are believed to be consistent with current and future planned Site use and minimal engineering controls, potential cumulative cancer and noncancer hazard estimates from the Targeted Risk Assessment did not exceed target health goals. These engineering controls include modifications to the HVAC system to increase the air exchange rate to 5 exchanges per hour, and placement of the proposed office area in the northwest corner of the North Sky Chefs building.

The potential receptors, exposure medium, and exposure pathways considered complete are discussed below and are summarized in the following table:

Receptor Population	Exposure Medium	Potentially Complete Exposure Pathway
Current Industrial/Commercial Worker	Groundwater (data adjacent to existing structures)	• Indoor Air Vapor Inhalation
	Soil Gas (data adjacent to existing structures)	• Indoor Air Vapor Inhalation
Construction Worker	Shallow Soil	• Incidental Ingestion • Dermal Contact • Outdoor Fugitive Dust Inhalation • Outdoor Air Vapor Inhalation
	Groundwater	• Dermal Contact • Outdoor Air Vapor Inhalation
Trench Worker	Shallow Soil	• Incidental Ingestion • Dermal Contact • Outdoor Fugitive Dust Inhalation • Outdoor Air Vapor Inhalation
	Groundwater	• Dermal Contact • Outdoor Air Vapor Inhalation
Industrial/Commercial Worker	Shallow Soil	• Incidental Ingestion • Dermal Contact • Outdoor Fugitive Dust Inhalation • Outdoor Air Vapor Inhalation
	Groundwater (offsite only)	• Indoor Air Vapor Inhalation
	Soil Gas	• Indoor Air Vapor Inhalation
Landscaper	Shallow Soil	• Incidental Ingestion • Dermal Contact • Outdoor Fugitive Dust Inhalation • Outdoor Air Vapor Inhalation

5.1.2 Compounds of Potential Concern

USEPA guidance (USEPA, 1997) was used to identify the COPCs to be evaluated in the Risk Assessment. The USEPA guidance states that the list of compounds should include all compounds that were:

- Positively detected in at least one sample;
- Detected above levels of the same compounds found in associated blank samples;
- Tentatively identified but may be associated with the Site based upon historical information;
- Transformation products of detected compounds; and
- Detected above naturally occurring levels (background).

For inorganic compounds, a compound was considered a COPC if it was determined to exceed background concentrations. The existing site-specific dataset contains between 408 and 431 analytical results for each metal in soil, and between 121 and 127 analytical results for each metal in groundwater, which were considered in the derivation of site-specific background concentrations for inorganic compounds. The methodology to determine background concentrations followed CalEPA guidance (CalEPA, 1997). This method is used to determine if an ambient population can be discriminated from a Site-impacted population of sample results. In addition, a comparison was made of the site-specific maximum background concentrations in soil with published maximum background concentrations for these same metals in California and western soils. Metals detected at concentrations above their respective site-specific background concentrations were selected as COPCs and were evaluated in the risk assessment. The AOPCs are shown on Figure 1-3.

All organic compounds that were detected positively in at least one sample were included as COPCs.

5.1.3 Site Conceptual Model

A general Site Conceptual Model (SCM) was developed to represent the current understanding of the site-specific occurrence of the COPCs, the means by which they are released and transported in various media, and the exposure pathways and routes by which they might contact human receptors on-site (Geosyntec, 2007a). The SCM was developed based on the anticipated near-term and long-term use of the Site. Potential exposure routes considered both direct and indirect contact with soil and groundwater, including potential migration of vapors from the subsurface. For metals and SVOCs, direct contact routes such as incidental ingestion and dermal contact are the most

relevant. An evaluation of potential exposure routes to off-site receptors is presented in the Risk Assessment Appendix A.

5.2 Remedial Action Objectives

This section describes the remedial action objectives (RAOs) identified for soil, soil gas, and groundwater, and the development of risk-based concentrations (RBCs) for each exposure scenario, by compound and media. RAOs are required by USEPA guidance (1997) as part of the FS process. RAOs are specific goals applied to media that have been identified as posing an unacceptable baseline risk. These media are then considered for remedial action in this FS Report. Most commonly, RAOs are expressed in terms of chemical concentrations and routes of exposure, so that RAOs can be achieved through a combination of reducing chemical concentrations or reducing exposures.

The following RAOs were identified for onsite soils and groundwater:

- Mitigate risk from ingestion, inhalation, and dermal contact with soils to acceptable risk levels;
- Mitigate risk from inhalation of soil gas to acceptable risk levels;
- Mitigate risk from dermal contact with groundwater to acceptable risk levels; and
- Achieve background concentrations for COPCs to the extent technically and economically achievable pursuant to State Water Resources Control Board (SWRCB) resolution 92-49.

These RAOs are applied to develop appropriate target RBCs for the COPCs that were identified in soil and groundwater at the Site. The COPCs were selected in the Risk Assessment (Geosyntec, 2007a) and were included in the derivation of RBCs.

5.2.1 Risk-Based Concentrations

Site-specific RBCs for chemicals that potentially pose unacceptable cancer risk or health hazard to receptors have been calculated based on reasonable expectations of future land use at the Site. These RBCs, have been used to identify areas of the Site that require remediation or other risk mitigation measures because concentrations of COPCs in those areas exceed the site-specific RBCs.

RBCs were calculated using the exposure algorithms, as well as the Johnson and Ettinger (J&E, 1991 and CalEPA, 2005) subsurface vapor intrusion model, employed in the quantitative risk assessment. RBCs were developed for each COPC detected in its respective environmental media. Current risk assessment toxicity values (cancer slope factors and noncancer reference doses) were selected from CalEPA's (2006) online Office of Environmental Health Hazard Assessment (OEHHA) Toxicity Criteria Database, USEPA's (2006) online Integrated Risk Information System (IRIS), or from the Region IX Preliminary Remedial Goals (PRG) table (USEPA, 2004).

RBCs for COPCs in soil, groundwater, and soil gas determined for the four exposure scenarios summarized in Section 5.3.1 are presented in Tables 5-1 through 5-4, and the corresponding locations are shown on Figures 5-1 through 5-3.

5.2.2 RBCs for the Indoor Air Pathway

RBCs for the indoor air pathway are presented in Table 5-3. The RBCs were derived using the DTSC J&E model (J&E, 1991 and CalEPA, 2005) to estimate potential migration of volatile chemicals from soil, soil gas, and groundwater into indoor air. This computer spreadsheet model, which is public domain software that is freely available at the CalEPA internet website, can also be used to estimate maximum target cleanup levels by back calculating subsurface vapor concentrations which would result in indoor air risk exceedances. The model accounts for both the diffusion of chemicals through the subsurface, as well as advection due to pressure differentials between the soil and buildings. It also incorporates two different types of building foundation construction: (1) slab on grade; and (2) structures with basements. The same soil physical parameters and building characteristics that were used in the risk assessment were also used to estimate RBCs for soil, soil gas, and groundwater.

5.2.3 RBCs for the Direct Contact and Outdoor Air Pathway

RBCs for the direct contact (incidental ingestion and dermal contact) and outdoor air inhalation pathways are presented in Tables 5-1 through 5-4. These were derived using exposure algorithms following USEPA and CalEPA risk assessment guidance (USEPA, 1989). These same algorithms were used, with slight modifications as outlined below, to develop RBCs for the different receptors.

Chemical-specific soil RBCs were derived first by calculating cancer risk and noncancer hazard using a unitized soil concentration of 1 mg/kg for each COPC. In other words, cancer risks and noncancer hazards were estimated for an onsite commercial worker assuming exposures to soil concentrations of 1 mg/kg for each

COPC via incidental soil ingestion, dermal soil contact, and outdoor air inhalation of vapors/dust. The unitized risk calculations are presented on Table 5-5 through 5-8. To calculate cancer risk from exposure via incidental ingestion of soil, the following equation was used:

$$CR_{ingestion} \text{ or } HQ_{ingestion} = \frac{C_s \times IngR \times ABS \times EF \times ED \times CF \times \left(CSF_o \text{ or } {}^{1}\!/\!_{RfD_o} \right)}{BW \times AT}$$

Where:

$CR_{ingestion}$	= Chemical-specific cancer risk, incidental ingestion pathway
$HQ_{ingestion}$	= Chemical-specific noncancer hazard quotient
C_s	= Unitized chemical concentration in soil (1.0 mg/kg)
IngR	= Ingestion rate of soil (mg/day)
ABS	= Percent absorption (assumed to be 100 percent)
EF	= Exposure frequency (days/year)
ED	= Exposure duration (years)
CF	= Conversion factor for soil (10^{-6} kg/mg)
CSF_o	= Oral cancer slope factor $(mg/kg \cdot day)^{-1}$
RfD_o	= Oral noncancer reference dose (mg/kg·day)
BW	= Body weight (kg)
AT	= Averaging time (days) cancer effects: 70 years × 365 days = 25,550 days noncancer effects: ED × 365 days

To calculate cancer risk from exposure via dermal contact with soil, the following equation was used:

$$CR_{dermal} \text{ or } HQ_{dermal} = \frac{C_s \times SA \times AF \times EF \times ED \times CF \times DAF \times \left(CSF_o \text{ or } {}^{1}\!/\!_{RfD_o} \right)}{BW \times AT}$$

Where:

CR_{dermal}	= Chemical-specific cancer risk, dermal contact pathway
HQ_{dermal}	= Chemical-specific noncancer hazard quotient
C_s	= Unitized chemical concentration in soil (1.0 mg/kg)
SA	= Skin surface area exposed to soil per day (cm^2/day)
AF	= Soil-skin adherence factor (mg/cm^2)
CF	= Conversion factor (10^{-6} kg/mg)
DAF	= Dermal absorption factor (unitless, chemical specific)

To calculate cancer risk from exposure via inhalation of vapors and fugitive dust from soil, the following equation was used:

$$CR_{inhalation} \text{ or } HQ_{inhalation} = \frac{C_s \times InhR \times ABS \times EF \times ED \times CF \times \left(CSF_i \text{ or } {}^{1}\!/\!_{RfD_i} \right)}{BW \times AT \times (PEF \text{ or } VF)}$$

Where:

$CR_{inhalation}$	= Chemical-specific cancer risk, outdoor inhalation pathway
$HQ_{inhalation}$	= Chemical-specific noncancer hazard quotient
C_s	= Unitized chemical concentration in soil (1.0 mg/kg)
InhR	= Inhalation rate (m^3/day)
ABS	= Percent absorption (assumed to be 100 percent)
CSF_i	= Inhalation cancer slope factor $(mg/kg \cdot day)^{-1}$
RfD_i	= Inhalation noncancer reference dose (mg/kg·day)

The derivation of the chemical-specific volatilization factors (VFs) for the outdoor vapor inhalation pathway and the particulate emission factor (PEF) for the outdoor fugitive dust pathway was presented in the risk assessment (Geosyntec, 2007a).

Subsequently, the cancer risks and noncancer hazards are summed together across exposure routes to yield a cumulative risk per each COPC (e.g., $CR_{ingestion}$ + CR_{dermal} + $CR_{inhalation}$ = Cumulative Cancer Risk). Assuming a chemical-specific target cancer risk of 1×10^{-5} and a target noncancer hazard quotient (HQ) of 1, the risk-based cleanup level (RBC) was estimated by using the following equations:

$$RBC_{carcinogen} = \left(\frac{1}{\text{Cumulative Cancer Risk}} \right) \times \text{Target Risk}$$

$$RBC_{noncarcinogen} = \left(\frac{1}{\text{Cumulative HQ}} \right) \times \text{Target HQ}$$

Soil gas and groundwater RBCs were also derived similarly to what was presented for the soil RBCs above. However, instead of a unitized soil concentration of 1 mg/kg, an initial soil gas or groundwater concentration of 1 µg/L is used in the exposure algorithms to derive their respective soil gas and groundwater RBCs. The RBCs for the construction worker, trench worker, commercial worker, and landscaper are presented

in Tables 4-1 through 4-4, respectively. The summary of RBCs is presented in Table 5-9.

Consistent with prior methodology, because the RBCs were calculated at a chemical-specific risk level of 10^{-5}, after remediation to RBCs the cumulative Site risk would be within the USEPA acceptable risk range of 10^{-6} to 10^{-4}.

5.3 Evaluation of Technical and Economic Feasibility of Cleanup to Background

In accordance with State Water Resources Control Board Resolution 92-49, the technical and economic feasibility of achieving background concentrations was performed. These evaluations are included within the feasibility study for each AOC and AOPC presented in Section 6.4.

An additional evaluation was performed to evaluate the economic feasibility of additional reduction of PCB concentrations to below the RBC of 4.2 mg/kg. Several alternate cleanup goals were evaluated to determine the break-point for economic feasibility of cleaning up to concentrations incrementally lower than the risk based goal:

- The RBC of 4.2 mg/kg;
- 1 mg/kg (site characterization data distribution break point);
- 0.3 mg/kg, the industrial California Human Health Screening Level (CHSSL);
- 0.1 mg/kg (site characterization data distribution break point); and
- Background, set at the laboratory reporting limit of 0.050 mg/kg.

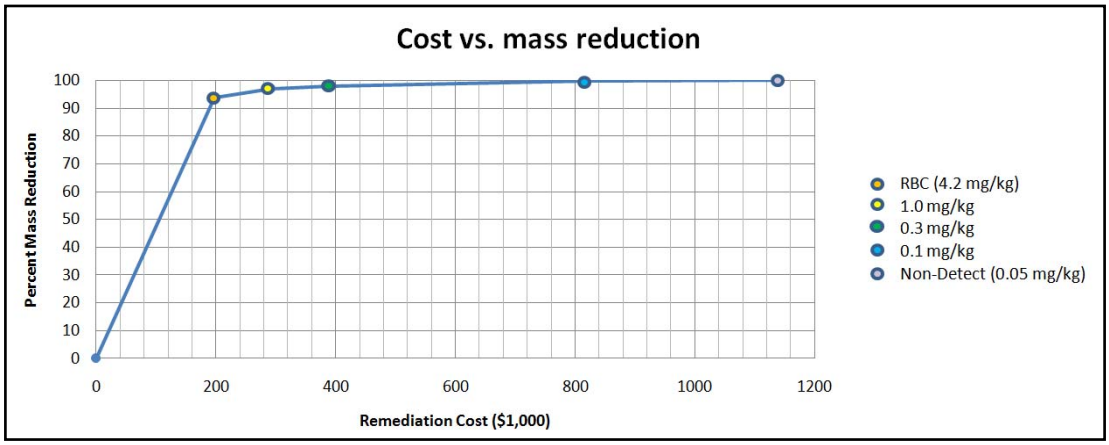
An economic feasibility analysis was performed for remediation to each of these concentrations (Appendix H). The results are summarized in the following table:

Cleanup Goal	Estimated incremental PCBs mass removed (kg)	% of total mass	Estimated Volume of Soil (yd^3)	Cumulative percent mass removed	estimated incremental cost	Cost per incremental % PCB mass removed
4.2 mg/kg	6.468	93.7%	250	93.7%	$ 197,000.00	$2,100
1 mg/kg	0.220	3.2%	100	96.9%	$ 94,500.00	$29,600
0.3 mg/kg	0.055	0.8%	100	97.7%	$ 94,500.00	$118,300
0.1 mg/kg	0.132	1.9%	600	99.6%	$ 430,250.00	$225,000
ND<0.05 mg/kg	0.029	0.4%	520	100.0%	$ 491,400.00	$1,186,200

Estimates of total PCB mass are based on a soil density of 1.44 g/cc (approximately 1,100 kg/yd^3) as reported in recent geotechnical sampling results (Geosyntec, 2010).

This analysis indicates that approximately 93.7% of currently identified PCB mass at the site would be removed using the RBC as the soil cleanup goal.

It is estimated that a goal of 1 mg/kg would cost approximately an additional $94,500 and would increase the total PCB mass removal from approximately 93.7% to 96.9% (3.2% of total site mass removal). A goal of 0.3 mg/kg would remove an additional 0.8% of total estimated site mass would cost approximately an additional $94,500. A goal of 0.1 mg/kg would remove an additional 1.9% of site mass and is estimated to cost approximately an additional $430,250. To achieve background (the final 0.4% of site mass), the additional cost is estimated to be $491,400. The cost vs. mass reduction is graphed below.



The most significant break point in the cost vs. mass reduction curve is at the risk-based goal of 4.2 mg/kg. There is another, much less pronounced, break point in the curve at 1.0 mg/kg. There are no other substantive break points in the curve. Costs per increment of PCB mass removal increase exponentially for the final 3.1% of PCB mass removed from the Site. Additionally, as soil concentrations decrease, larger volumes of soil must be excavated to achieve an equivalent volume of mass removal, i.e. 1 yd^3 of soil with an average concentration of 1 mg/kg accomplishes the same PCB mass removal as 10 yd^3 of soil with an average concentration of 0.1 mg/kg.

The additional non-economic costs for performing large scale excavations also need to be considered, including project related greenhouse gas emissions, increased demand on finite landfill capacity, and increased truck trips and associated risk of traffic accidents. The break point observed at the 1.0 mg/kg concentration represents a point of diminishing returns where increasingly large excavations would be required to realize ever smaller incremental reductions in residual PCB mass. After this point, the relative cost to the people of the state in terms of landfill space, truck trips, fuel consumption,

and potential for construction related accidents is not offset by the relative benefit of additional reduction in residual on-site concentrations. Therefore, 1.0 mg/kg is proposed as the most appropriate PCB remediation goal.

The alternative PCB remedial goal of 1.0 mg/kg in soil is more stringent than the risk based remedial requirements and is evaluated to be protective of potential off-site receptors as described in the Risk Assessment Appendix A (Geosyntec, 2010). The alternative PCB goal also meets the directives of Resolution 92-49 in that it is consistent with maximum benefit to the people of the State, does not unreasonably affect present and anticipated beneficial use of water and does not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

5.4 Post-Remediation Evaluation of Risk

To confirm the effectiveness of the remediation, a post-remediation Risk Assessment will be conducted. The post-remediation Risk Assessment will use post-remediation soil, groundwater, and soil gas sample data from each remediated AOC or AOPC, as well as existing data from nearby unremediated areas, as appropriate. The site-specific exposure parameters as well as toxicity criteria presented in the Site-wide Risk Assessment will be applied during the post-remediation Risk Assessment, with one modification. A PCB oral slope factor of 5 was utilized in the preparation of the Risk Assessment. The post remediation Risk Assessment and all future Risk Assessments will adopt the DTSC recommended PCB slope factor of 2.

During the remediation phase, interim area-specific post-remediation risk evaluations will be performed sequentially for each remediated AOC or AOPC using the 95% UCL concentration for each chemical. The exposure areas for estimating the 95% UCL will be the AOCs or AOPC defined in the RI/FS. However, the AOC or AOPC will be subdivided if the size of the AOC or AOPC exceeds 25,000 square feet (the dimensions of a typical commercial building that may be built on the property). Buildings in use on adjacent parcels (e.g., current private jet facilities north of the runway) provide the basis of this typical dimension. As remedial actions are completed in each area and media, risk evaluations will be performed to evaluate potential post-remediation risk in the targeted media. For soil, these area-specific risk evaluations will be performed after each excavation is completed. During Site demolition, additional areas of potential environmental concern may be identified. These areas will be characterized by additional sampling, as necessary. If remedial actions are required, the area will be included in the area-specific post-remediation interim risk evaluations described above and the post-remediation Site wide Risk Assessment described below.

Groundwater risk evaluations will follow as in-situ remedial actions are being completed. After the risk goals (1×10^{-5} cancer risk and Hazard Index of 1) for soil and groundwater have been met in a given area, and building demolition is complete, a soil gas survey will be performed. Soil gas samples will be collected after steady state conditions have been attained. The time to reach steady state will be estimated using the methods described in Johnson et al., 1999. The resulting data will be used for the vapor intrusion risk evaluation because soil gas data provides a direct measurement of the chemical concentration that may migrate into indoor air.

When remediation is deemed complete, a final post-remediation Site-wide Risk Assessment will be prepared. The final post-remediation Risk Assessment will compile the confirmation sample results from the AOC and AOPC remediation areas and the relevant Site characterization sample results into a comprehensive Site wide post-remediation dataset for soil, groundwater and soil gas. Site wide post-remediation risks for each media and receptor will be calculated using Site wide 95% UCL chemical concentrations. To address cumulative risks across media for the construction worker and trench worker (who may be exposed to soil and groundwater simultaneously), soil and groundwater risks will be summed. All other potential risks will be presented separately for each media.

While Site wide risks may be acceptable, due to the size of the Site and data distribution, there may be localized areas of impacts with chemical concentrations much greater than surrounding areas. To address this concern, a review of the Site data will be conducted. The constituent specific data distributions will be evaluated with regard to the 95% UCL to identify any outliers (results exceeding 3 times the 95% UCL). If these outliers represent a chemical specific risk exceeding 1×10^{-6} or a noncancer hazard index of 0.1, a location specific cumulative risk evaluation will be performed as described below.

If a specific location on the Site is identified with potentially elevated concentrations, this area will be evaluated with an area-specific post-remediation Risk Assessment consistent with the approach applied to the AOCs and AOPCs. An area of 25,000 square feet, placed and centered over the specific location, will be used to calculate area-specific 95% UCL concentrations. If cumulative risks in the area are greater than the target risk goal of 1×10^{-5} or a noncancer hazard index of 1, further action will be conducted. This may consist of collecting additional data or remedial action.

If additional on or off Site remedial measures are required to address potential impacts to Convair Lagoon, an evaluation of the post-remediation risk to human health and the environment in Convair Lagoon will be performed to document the efficacy of the

mitigation measures. This evaluation will be added as an Appendix to the post-remediation Risk Assessment.

5.5 Area of Potential Concern Screening

AOPCs were screened using the calculated RBC for each compound, for each exposure scenario. AOPCs where concentrations of COCs in soil, soil gas, or groundwater exceeded any RBC were then considered an AOC.

AOCs required further evaluation for potential remediation technologies for risk-based cleanup, which is discussed in detail in Section 6. The remaining AOPCs were not evaluated with respect to risk-based cleanup. However, all AOCs and AOPCs were considered for non-risk-based cleanup, where concentrations were observed to exceed background concentrations or where NAPLs were observed or suspected.

Eight AOCs have been identified:

- Building 131/242;
- Building 156;
- Building 158;
- Building 102
- Building 120 South;
- Building 130/166 AST/120/121;
- Former Maintenance Yard; and
- Building 180.

A summary of RBC exceedances are presented on Figures 5-1 through 5-3. The results of the AOPC screening and comparison to RBCs is presented below. Remedial alternatives to address risk-based cleanup and potential remedial actions for non-risk-based cleanup to background concentrations are presented in Section 5.

5.5.1 AOC Building 131/242

PCE, TCE, cis-1,2-DCE, and vinyl chloride exceed RBCs in Building 131/242, as described below.

- PCE, TCE, cis-1,2-DCE, and vinyl chloride exceeded RBCs in shallow groundwater (Figure 5-1);

- PCE in soil exceeded RBCs at one soil sampling locations beneath the northwest corner of Building 131 (Figure 5-2);

- PCE, TCE, cis-1,2-DCE, 1,1-dichloroethane (1,1-DCA), vinyl chloride, and benzene exceeded RBCs for soil gas (Figure 5-3).

5.5.2 AOC Building 156

PCE exceeds RBCs for soil and soil gas within AOC Building 156, and PCBs also exceed RBCs in one soil location, as described below.

- One soil sample exceeds RBCs for PCBs at one location in the southwestern portion of Building 156 (Figure 5-2);

- One soil samples exceed RBCs for PCE. One in the southwestern portion of Building 156 and two in the northeastern portion (Figure 5-2);

- PCE concentrations in soil gas exceed the RBCs for commercial workers (Figure 5-3).

5.5.3 AOC Building 158

Total and hexavalent chromium have been detected in soil and groundwater within the footprint of Building 158. One location in Building 158, (0158-GW-16) has additionally contained elevated VOC concentrations related to a sheen of TPH described as LNAPL. Chromium impacts are isolated to a relatively small area within the footprint of Building 158. Based on current RBCs there is a potential risk to anticipated on-Site receptors due to hexavalent chromium in soil and groundwater and VOCs in shallow soil, as described below.

- Groundwater concentrations exceed the construction and trench worker RBCs for CrVI (Figure 5-1).

- Soil concentrations exceed the construction worker RBCs for CrVI.

- LNAPL consisting primarily of naphthalene was observed at location 0158-GW-16 during previous assessment activities (H&A, 2004). Soil concentrations exceeded the RBCs for n-butylbenzene, ethylbenzene, n-propylbenzene, isopropylbenzene, naphthalene, xylene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and TPH (Figure 5-2). LNAPL was not observed in a

subsequent hydropunch boring/sample advanced in the vicinity of this location at location T-49 (Section 4.1).

- Four samples exceed RBCs for soil gas related to detections of vinyl chloride and benzene immediately to the southeast of Building 158.

5.5.4 AOC Building 102

1,2,4-Trimethylbenzene and naphthalene have been detected in excess of soil RBCs in one confirmation sample collected during the closure of this former UST area. TPH has also been detected above soil RBCs just below the water table. These samples were collected during the removal of a diesel UST. All NAPL observed in soil and shallow groundwater was reportedly removed during UST removal activities in 2003 (H&A, 2004).

5.5.5 AOC Building 120 South

TPH has been detected in excess of soil RBCs at two locations in the south central portion of Building 120. LNAPL containing PCB concentrations in excess of the Soil RBC has also been observed in test pits and excavations.

5.5.6 AOC Building 130/166 AST/120/121

This AOC incorporates Building 130, Building 166 AST, Building 120, and Building 121, which will be handled as a single AOC for remediation purposes. These areas have RBC exceedances in soil, groundwater, and soil gas, as described below.

- Soil samples exceeded RBCs for PCE in one location in the central portion of Building 120 and PCBs in the vicinity of the 30-inch East SWCS.

- Groundwater samples exceeded RBCs for PCE, TCE, and cis-1,2-DCE. PCBs also exceeded groundwater RBCs in one location south of Building 120.

- Soil gas samples exceeded RBCs for PCE, TCE, cis-1,2-DCE, carbon tetrachloride, 1,1,2-trichloroethane, and 1,1-DCA.

5.5.7 AOC Former Maintenance Yard

Groundwater samples in the area contain PCE at concentrations which appear to indicate a source of PCE separate from the Building 120 AOC in this area. Groundwater in this area is co-mingled with impacted groundwater from AOC Building

130/166 AST/120/121. This area has RBC exceedances in groundwater and soil gas, as described below.

- Four groundwater samples exceed the RBC for PCE; and
- Soil gas samples exceed the RBC for PCE and TCE.

5.5.8 AOC Building 180

VOCs have been detected in groundwater in the vicinity of the loading dock immediately south of Building 180. Only one groundwater sample exceeded RBCs and only for vinyl chloride in this area. TPH has also been detected above the soil RBC in one sample at 1foot bgs, and PCBs have been detected above the alternative PCB soil remediation goal in one soil sample at 1 foot bgs.

5.5.9 AOPC Explosives Area

PCBs were detected in one shallow soil at a concentration of 1.5 mg/kg (H&A, 2004) which exceeds the Alternate Soil PCB cleanup goal.

5.5.10 AOPC Test Cell #4/Area D

During 2005, a sheen (approximately 0.1 feet) of NAPL was observed in monitor well 142WNC, near the center of Test Cell #4/Area D. A NAPL sheen was subsequently observed in this area during a groundwater monitoring event in August 2007. The RWQCB is currently the lead agency for this former UST. No constituents exceed RBCs in this area.

5.5.11 AOPC Building 142

A 2,000 gallon gasoline underground storage tank was removed from the southeastern corner of Building 142 in 1990. A no further action determination was granted by the San Diego Department of Environmental Health in October 2000 (PES, 2001). Building 142 was identified as an AOPC in the Western Area RI/FS Work Plan (Geosyntec, 2006a) due to concentrations of PCE (280 µg/L) detected in groundwater south of Building 142. A subsequent groundwater sample collected from monitor well 142WDP, located approximately 25 feet north of this historical hydropunch sample contained no detectable PCE in 2005 (Geosyntec, 2005). Groundwater in the vicinity of Building 142 does not exceed RBCs.

5.5.12 AOPC Southeast of Building 146

One groundwater sample collected in 2003 slightly exceeded RBCs for vinyl chloride in AOC Building 146 for the construction worker, groundwater to outdoor air pathway. More recent sampling at this location in 2005 suggests that groundwater no longer exceeds any RBCs.

5.5.13 AOPC Building 120 West

PCBs were detected in two shallow soil samples at concentrations of less than the RBC, but above the alternative soil PCB cleanup standard. No soil, soil gas, or groundwater samples exceed RBCs (Geosyntec, 2005).

5.5.14 AOPC Building 222/228

Soil samples collected west of former Building 228 contained PCBs, chromium, cobalt, lead, mercury, nickel, and zinc above site-specific background concentrations. No soil, soil gas, or groundwater samples exceed RBCs. However, one soil sample exceeded the alternate soil PCB cleanup goal (Geosyntec, 2005).

5.5.15 AOPC South of Building 121

PCBs were detected in one shallow soil sample at a concentration of less than the RBC, but above the alternative soil PCB cleanup standard (Geosyntec, 2005).

5.5.16 AOPC Storm Water Conveyance System

PCBs were detected in sediments within the 60-inch SWCS in excess of RBCs following cleanout efforts in 2006. Impacts to sediment and from groundwater seeps within the 54-inch and 60-inch SWCS are evaluated in Appendix A of the Site Wide Risk Assessment (Geosyntec, 2007). Interim actions to address PCB impacted sediment and prevent migration to San Diego Bay will be implemented, if needed, until storm drain tributaries are removed during anticipated demolition activities. An evaluation of the feasibility of remedial alternatives, based on the results of the Risk Assessment is presented in Appendix A.

6.0 FEASIBILITY STUDY

In accordance with directive D.3.b of the CAO, a feasibility study of potential remedial alternatives was conducted for each AOC and AOPC. This feasibility study evaluates alternatives, including the cost and effectiveness of each alternative for the remediation of soil, groundwater, and SWCS impacts to risk based cleanup levels, as well as the feasibility of cleanup to background conditions per the directives of RWQCB Order No. 92-49. A recommended remedial alternative is presented for each AOPC based on the findings of the feasibility study in accordance with directive D.3.c of the CAO.

As presented in Section 5, AOPCs that contain concentrations of constituents in exceedance of RBCs are labeled as an AOC. This feasibility study consists of a screening analysis of potential remedies and a more detailed feasibility analysis of remedies considered potentially appropriate.

6.1 Screening Analysis

The screening analysis was conducted to reduce the number of potentially applicable alternatives to those that were determined to be readily implementable, considered potentially cost effective, and able to achieve the following remedial goals.

The primary remedial goals for AOCs are:

- Reduction of constituent concentrations in soil and groundwater to below RBCs for all constituents;
- Reduction of constituent concentrations of PCBs in soil to below the proposed alternate cleanup goal of 1.0 mg/kg; and
- Removal of LNAPL if present.

The secondary remedial goal for AOCs is:

- Elimination of impacts by achieving background concentrations.

The primary remedial goal for the AOPCs is:

- Reduction of constituent concentrations of PCBs in soil to below the proposed alternate cleanup goal of 1.0 mg/kg; and
- Removal of LNAPL if present.

The secondary remedial goal for AOPCs is:

- Elimination of impacts by achieving background concentrations.

The retained alternatives for each AOC/AOPC are presented in Section 6.4.

6.2 Detailed Feasibility Analysis

Each remedial alternative retained from the screening analysis was subjected to a detailed analysis against four criteria. These criteria are presented below.

Effectiveness

Effectiveness was evaluated on: the ability to reduce constituent concentrations below RBCs; the ability to remove LNAPL if present; and secondarily the ability to achieve background concentrations.

Areas that contain constituents at concentrations greater than background, but that do not exceed RBCs were evaluated as AOPCs. In these areas, effectiveness was evaluated simply on the ability to remove LNAPL if present, and secondarily the ability to achieve background concentrations.

Implementability

The implementability evaluation was based on the ability to construct and reliably operate each alternative. Specific factors evaluated were: availability of equipment, material, and technical personnel; ability to meet technology-specific regulations until the remedial action is complete; and operation, maintenance, replacement, and monitoring of the remedial alternative components. Each remedial alternative was rated as readily implementable, moderately implementable, or difficult to implement based on the criteria above.

Overall Protection of Human Health

Remedial alternatives were evaluated with respect to their overall ability to be protective of human health both during implementation, and after remediation was completed. Specific factors considered were protection of the general public and Site workers during the remedial action and the anticipated time frame required to reduce risk or hazard. A longer time frame was considered less protective overall than a shorter time frame.

Because AOPCs do not contain impacts exceeding risk-based cleanup goals, this criterion only applies to AOCs. It should be noted; however, that large excavations targeting non-risk based cleanup standards (background) have inherent potential for increased risk to human health due to traffic and construction accidents. Also, when an excavation is performed to non-risk based standards, the incremental benefit from the reduced soil concentrations at the Site must be weighed against the increased carbon footprint which results from expanded excavation, transport and disposal activities.

Cost

An evaluation of both capital and annual costs was performed. Capital costs include both direct and indirect costs. Annual costs are post-construction costs necessary to ensure the continued effectiveness of a remedial action alternative. The result of the cost evaluation is presented numerically within the AOC or AOPC; these cost estimates are only an approximation based on the currently understood potential system design. Average unit costs which are incorporated into cost tables are provided in Table 6-1. A range of potential volumes or units are presented to illustrate how unit costs are affected by economies of scale, oversight, and mobilization costs which, when distributed across a larger project, result in lower overall unit costs for some remedial options. Costs presented on Table 6-1 provide a generalized unit cost for the scopes of work/volumes indicated. Estimated unit costs included on the AOC/AOPC cost tables may vary from the averages presented in Table 6-1 due to AOC/AOPC specific considerations regarding access/clearance or other unique circumstances.

6.3 Technology Descriptions

Technologies considered for possible application at the Site are presented below. The technologies which were eliminated from consideration are presented first, followed by the retained technologies.

6.3.1 Eliminated Technologies

Remedial action alternatives were screened and eliminated from the proposed options for initial implementation in the Western Area RI/FS Work Plan and RI/FS Work Plan (Geosyntec, 2006a and 2006b). These include:

- Ozone sparging;
- Potassium permanganate and modified Fenton's reagent;
- In-situ reduction (ISR) using ZVI;
- Ex-Situ Electrocoagulation; and

- Ex-Situ Reduction/precipitation.

Ozone sparging was considered for the treatment of VOCs in groundwater. This alternative was eliminated during the screening analysis due to the proximity of the potential amendment areas to the ground surface and to underground utilities. In-situ chemical oxidative technologies, such as potassium permanganate and modified Fenton's reagent, were also considered for the treatment of VOCs in groundwater. However, these technologies would not efficiently reduce the concentrations of the COCs below RBCs.

ISR using ZVI was considered for treating VOCs or CrVI in groundwater. However, based on the bench-scale treatability study using ZVI for treatment of CrVI in groundwater (Section 4.1.2), ZVI does not appear to be effective for the Site conditions. The ZVI may possibly be hindered by the salinity of the groundwater.

Electrocoagulation and reduction/precipitation were considered for ex situ treatment of CrVI in groundwater. However, due to cost and increased exposure to groundwater related to ex-situ treatment, it is recommended that CrVI impacted groundwater be treated in-situ.

6.3.2 Retained Technologies

The following technologies were retained for further analysis:

- No Action;
- Monitored natural attenuation (MNA);
- Enhanced In-Situ Bioremediation (EISB);
- In-situ reduction (ISR) using $FeSO_4$ by injection;
- ISR using $FeSO_4$ by In-situ soil mixing;
- ISR using Emulsified Vegetable Oil (EVO) by injection;
- Two-phase extraction (TPE);
- Soil vapor extraction (SVE);
- Chemical Oxidation/Biostimulation
- Targeted excavation;
- Alternative excavation areas; and
- Whole AOC/AOPC excavation.

These technologies are described below along with a discussion of their effectiveness.

6.3.2.1 No Action

This alternative consists of performing no work now or in the future to attempt to mitigate an existing condition. For No Action to be considered an acceptable alternative, the concentrations of the COCs would have to be below RBCs and below the alternative PCB cleanup criteria for soil of 1.0 mg/kg.

The relative ability of this alternative to achieve RBCs or the alternate soil PCB criteria is low and is considered ineffective. Implementation of No Action may not change present conditions. Based on observed indicators of natural attenuation, it is possible that background concentrations could be achieved over time. However, for persistent constituents such as metals and PCBs, the alternative would not affect existing concentrations. This alternative does not include long-term monitoring. Changes to constituent concentration or potential offsite migration would not be documented.

This alternative may require an extended period of time to reach remedial objectives, based on constituent concentrations and Site conditions.

6.3.2.2 Monitored Natural Attenuation

MNA refers to the monitoring of natural processes working to achieve site-specific objectives. Natural processes include a variety of physical, chemical, or biological processes that, under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of constituents in media of concern. These processes include biodegradation, dispersion, dilution, sorption, volatilization, and chemical or biological stabilization, transformation, or destruction of constituents. To be considered an acceptable alternative, MNA would be expected to achieve remedial objectives comparable to that offered by other more active methods.

The relative ability of this alternative to reduce concentrations to below RBCs in the near-term may be low. This alternative requires a time to monitor naturally occurring changes over time. It is possible that MNA would prove to be moderately effective for certain constituent concentrations under the conditions at the Site. However, this alternative may require an extended period of time to reach remedial objectives for some AOCs.

6.3.2.3 Enhanced In-Situ Bioremediation

EISB is a technology that uses subsurface bacteria to degrade VOCs in groundwater. Chlorinated constituents, such as PCE and TCE can be biodegraded, under proper conditions, by both reductive dechlorination and direct oxidation. EISB uses the

application of nutrients and other elements to ensure optimum conditions in the subsurface for the degradation/dechlorination mechanisms to occur using the indigenous bacteria. EISB involves the addition of specific bacteria (*Dehalococcoides Ethenogenes*) when the indigenous bacteria cannot completely degrade chlorinated ethenes. A wide variety of EISB technologies are currently in use that utilize one or more of these degradation mechanisms.

The relative ability of EISB to reduce constituent concentrations in groundwater to below RBCs is high. It is expected that EISB will reduce VOC groundwater concentrations to the RBCs within 2 to 3 years with an aggressive implementation approach.

Baseline data from the Pilot Study area shows that biodegradation is occurring naturally in this area as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-3-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates and time to reach background after the Pilot Study, VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation.

The relative ability of this alternative to achieve remedial objectives for soil gas is moderately high. Volatilization of constituents in groundwater is the apparent source of impacted soil gas at the Site. VOC concentrations in soil gas are expected to be reduced over time as groundwater is remediated. Soil gas concentrations will be measured at the end of the remedial groundwater action to evaluate risk to human health from soil gas.

6.3.2.4 In-Situ Reduction Using Ferrous Sulfate by Injection

Ferrous Sulfate ($FeSO_4$) is a low oxidation-state chemical species which serves as an electron donor to reduce CrVI to CrIII. $FeSO_4$ can be dissolved into water and injected in-situ, using direct push technologies, to treat soil and groundwater.

The relative ability of $FeSO_4$ injection to achieve RBCs in groundwater is high. It is expected that the addition of $FeSO_4$ will reduce the CrVI concentrations in groundwater to the RBC within weeks. Because of the high starting concentration of total chromium in this area, it is unlikely that total chromium concentrations in groundwater will reach background. Because this technology reduces CrVI to CrIII (a less soluble and less

toxic form of chromium), the mass of total chromium will not change, and background will not be achieved for total chromium in soil.

6.3.2.5 In-Situ Reduction Using Ferrous Sulfate by Soil Mixing

ISR using $FeSO_4$ by soil mixing uses the same chemical principals as ISR through direct injection. However, the soil mixing approach applies the $FeSO_4$ directly to the soil through the drill stem of a bucket-auger. This application method greatly improves overall contact of the $FeSO_4$ through low-permeability soils while mitigating potential rebound due to preferential injection pathways or incomplete contact of the $FeSO_4$ with impacted soils.

The relative ability of soil mixing to achieve RBCs in groundwater is high due to the improved contact and distribution of the $FeSO_4$ in the subsurface. The relative ability to achieve RBCs in vadose zone soil is moderate as it may be difficult to achieve full contact throughout the soil column in the vadose zone.

6.3.2.6 In-Situ Reduction Using Emulsified Vegetable Oil by Injection

Emulsified vegetable oil (EVO) serves as an electron donor for naturally occurring microbial cultures in the subsurface. The availability of electron donor allows these microorganisms to create reductive conditions in the groundwater. These reducing conditions promote the reduction of CrVI to CrIII. EVO can be dissolved into water and injected in-situ, using direct push technologies, to treat soil and groundwater.

The relative ability of EVO injection to achieve RBCs in groundwater is high. Although the reduction process is not as rapid as the direct chemical reduction from FeSO4, electron donor concentrations measured as total organic carbon are expected to remain elevated for up to two years. It is expected that the addition of EVO will reduce the CrVI concentrations in groundwater to the RBC within months. The long-term reducing environment stimulated by the addition of EVO will improve the ability to reduce chromium concentrations within fine grained materials, reducing rebound conditions which can be caused by incomplete contact with short-lived reductants.

Because of the high starting concentration of total chromium in this area, it is unlikely that total chromium concentrations in groundwater will reach background. Because this technology reduces CrVI to CrIII (a less soluble and less toxic form of chromium), the mass of total chromium will not change, and background will not be achieved for total chromium in soil.

6.3.2.7 Two-Phase Extraction

TPE uses a vacuum applied to a groundwater monitor well to remove soil vapor, groundwater, and mobile LNAPL from within the well and surrounding soil. TPE would also improve the potential flow of any mobile LNAPL in the capillary fringe from the surrounding soil into the well for removal, and generate soil vapor flow within the vadose zone and dewatered capillary fringe. TPE also stimulates aerobic degradation of petroleum hydrocarbons by pulling oxygen into the subsurface.

The relative ability of this alternative to achieve LNAPL removal and reduction of soil gas and groundwater impacts is moderate. Implementation of TPE would remove available LNAPL, and could achieve background concentrations for some VOCs in soil and groundwater in the immediate vicinity of the extraction zone. Groundwater and soil concentrations may remain unchanged outside the radius of influence of the extraction zone. However, targeted implementation of TPE can efficiently address source zones and remove mass to support closure of an isolated area.

6.3.2.8 Soil Vapor Extraction

SVE is a proven technology for removing VOCs from the vadose zone. SVE is an option for in-situ treatment of TPH in soil at the Site. A pilot study may be performed to gather information on extracted soil gas from the Site. The quality and concentration of compounds in the extracted soil vapor must be evaluated prior to selection of a vapor treatment technology. SVE also stimulates aerobic degradation of petroleum hydrocarbons by pulling oxygen into the subsurface.

Targeted implementation of SVE can efficiently address source zones and remove mass to support closure of an isolated area. The relative ability of this technology to reduce constituent concentrations to below RBCs is high and to achieve background concentrations is moderate.

6.3.2.9 Chemical Oxidation/Biostimulation

Chemical oxidation followed by biostimulation is an option for in-situ treatment of TPH in saturated soil and shallow groundwater at the Site. RegenOx with ORC Advanced would be injected to promote biodegradation of TPH impacts accumulated at the water table. RegenOx would reduce the initial concentrations and make the remaining TPH more bioavailable. The ORC Advanced would stimulate the aerobic microbial community to further break down the remaining TPH impacts.

Targeted implementation of chemical oxidation with biostimulation can efficiently address source zones and remove mass to support closure of an isolated area. The relative ability of this technology to reduce constituent concentrations to below RBCs is high and to achieve background concentrations is moderate.

6.3.2.10 Targeted Excavation

A targeted excavation consists of the localized removal of soil specifically to remove a hot-spot of impacted soil. Excavated soil would be hauled offsite for disposal.

The relative ability of targeted excavation to reduce risk in soil and achieve background concentrations within the area excavated is high, as the soil exceedance would be directly removed. However, the direct cost and indirect impacts (related to traffic, landfill use, and greenhouse gas emissions) must be evaluated against the relative reduction in potential risk and maximum benefit to the people of the state of California realized from the implementation of the remedial action.

6.3.2.11 Alternative Excavation Areas

Alternative excavation areas are excavations performed to potentially expedite the remediation of VOCs or TPH impacted soil or groundwater or to provide further reductions in soil concentrations to below RBC values. During the Site characterization activities, two AOPCs were determined to potentially contain residual DNAPL and two were determined to potentially contain residual LNAPL, based on observed groundwater concentrations of VOCs and TPH. To supplement natural attenuation or EISB of VOCs and more quickly attain RBCs, those areas with potential NAPL, if present, could be excavated (Figure 6-2)

While only individual points across the Site exceed RBCs for metals in soil (readily addressed by targeted excavation), there are some larger areas over which metals exceed background. Because metals in soil will not naturally attenuate, some areas would require more significant excavation to achieve background levels.

Four areas of the Site contain PCB concentrations less than the RBC, but greater than the proposed alternative PCB cleanup goal. These areas have also been designated as potential alternative excavation areas. An evaluation of the technical and economic feasibility of cleanup of PCBs to background was performed on a site-wide basis based on the incremental cost for performing additional excavation activities vs. the incremental mass removed by that action (Section 5.3). The unit costs underlying the calculated site-wide incremental costs per mass removed are essentially the same regardless of the size of the excavation, so the incremental costs per mass removed are

similar in an AOPC specific evaluation. For example, in the former explosives area AOPC, which has approximately 20 yards of soil exceeding a 1 mg/kg alternative cleanup standard and an additional 60 yards of soil exceeding background (<0.05 mg/kg), a remedy removing the first 20 yards of soil would result in an overall removal of approximately 44 grams of PCBs. This is an estimated reduction of 0.6% of site PCB mass and would cost approximately $19,000 (approximately $31,600 per percent mass removed). The remaining 60 yards would result in an overall removal of approximately 3 grams. This is an estimated reduction of 0.05% of Site PCB mass and cost approximately $57,000 (approximately $1,140,000 per percent mass removed).

Cleanup Goal	Estimated incremental PCBs mass removed (kg)	% of total Site mass	Estimated Volume of Soil (yd^3)	estimated incremental cost	Cost per incremental % PCB mass removed
1 mg/kg	0.044	0.6%	20	$ 19,000	$31,600
ND<0.05 mg/kg	0.003	0.05%	60	$ 57,000	$1,140,000

These incremental costs are comparable to the site-wide incremental costs presented in Section 5.3.

These moderately sized excavations could achieve background concentrations or alternate cleanup goals for some constituents and remove NAPL, if present. Therefore this option is highly effective. However, the direct cost and indirect impacts of additional excavations (related to traffic, landfill use, and greenhouse gas emissions) must be evaluated in relation to the relative benefit of further reduction in on-site constituent concentrations below RBCs to determine if the additional excavation is consistent with the goal of achieving the maximum benefit to the people of the state of California.

6.3.2.12 Whole-AOC/AOPC Excavation

Whole AOC/AOPC excavation would consist of the removal and offsite disposal of all soil exceeding background (Figure 6-3). Excavation occurring below the groundwater table would require dewatering. For the purposes of the feasibility study, it is assumed that the permeability of the saturated soil at the Site is low enough that dewatering of the excavation can be effectively accomplished using trash pumps. Excavated soil would be staged for offsite disposal using roll-off bins.

The relative ability of excavation with dewatering to achieve background concentrations within the area excavated is high, as the soil exceedances would be

removed. The groundwater directly underlying and within the vicinity of the excavation, would also be removed from the Site. There is an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

6.4 Remedial Alternatives by AOC/AOPC

Each retained technology is described below for each AOC/AOPC. The remedial alternatives retained from the screening analysis were subjected to the detailed analysis criteria. The effectiveness of each technology is discussed in Section 6.3.2. This section compares AOC/AOPC specific criteria of implementability, overall protection of human health, and cost of each alternative.

The technologies which are identified as technically feasible for each AOC are subsequently evaluated on a basis of economic feasibility as described in State Water Resources Control Board Resolution 92-49, in which the incremental benefit of attaining further reductions in the concentration of constituents are compared with the incremental cost of achieving those reductions. Evaluated costs and benefits include, current and planned future land use and social or economic impacts to the surrounding community. Based on this combined technical and economic evaluation, a recommended remedial action is presented.

6.4.1 AOC Building 131/242

AOC Building 131/242 contains exceedances of RBCs for VOCs in soil, soil gas, and groundwater. The primary remedial goal for this AOC is reduction of human health risk to acceptable levels, defined as achieving the site-specific RBCs presented in Tables 5-1 through 5-4. The secondary remedial goal is achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action;
2. MNA for VOCs in groundwater;
3. EISB for VOCs in groundwater and targeted excavation for hot-spot VOCs in soil;

4. Alternative excavation of the area indicative of potential DNAPL in groundwater to approximately 10 feet bgs and targeted excavation for hot-spot VOCs in soil followed by EISB; and

5. Whole-AOC excavation of soil that exceeds background concentrations, to approximately 10 feet bgs, with dewatering.

The results of the detailed analysis of alternatives for this AOC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-2.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable with regard to the criteria as defined in Section 6.2.

Overall Protection of Human Health

The overall ability of No Action to be protective of human health is limited, because the concentrations of constituents that exceed RBCs will not be evaluated by the implementation of No Action. Based on observed indicators of natural attenuation, it is possible that background concentrations would be achieved over time. However, without a monitoring program, future Site conditions would be unknown.

Cost

No costs would be expected by implementation of this alternative.

Alternative 2 – Monitored Natural Attenuation

Implementability

MNA is readily implementable at the Site since a monitoring program, required infrastructure, and equipment already exists. Additional monitor wells could be readily installed if needed.

Overall Protection of Human Health

The overall ability of MNA to be protective of human health at this AOC is low. Little to no near-term reduction of risk would be provided by this alternative. Measures to

reduce worker exposures would be required for trenching and construction work during Site redevelopment and engineering controls would be required after Site redevelopment. The long-term exposure is reduced over time but the time frame to achieve this reduction is long.

Cost

The cost to implement MNA would be low with respect to both capital costs and O&M costs. The approximate cost of implementing MNA is $403,000. Capital costs would primarily be associated with installation of monitor wells. O&M costs would primarily be associated with sample collection and analysis, data trending, and reporting. The estimated cost assumes that this area would be monitored for 30 years due to the high concentrations of VOCs in this AOC.

Alternative 3 – Enhanced In-Situ Bioremediation and Targeted Excavation

Implementability

This alternative is highly implementable. EISB has been successfully used for the remediation of DNAPL source zones at similar sites across the country (ITRC, 2007). Based on the results of the bench-scale and pilot scale studies, addition of electron donor and microbial culture can achieve rapid dechlorination rates. Direct push technology was used during the Pilot Study to inject a grid of dechlorinating electron donor and microbial culture. The approximate area of electron donor and microbial culture injection is shown in Figure 6-1. Monitoring data is provided in Appendix G. Approximately one month was required to inject the electron donor and microbial culture at 254 points, using direct push rods as temporary injection points.

One targeted excavation would be performed surrounding a soil sample with PCE concentrations in soil that exceed RBCs. The extent of targeted excavation would cover approximately a 20 foot by 20 foot area around the one elevated soil concentration in the northeast corner of Building 131 (Figure 6-2). Soil would be excavated to the groundwater surface, approximately 7 feet bgs. The volume of soil removed would not generate technical or administrative challenges.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Exposure to RBC exceedances in soil would be immediately eliminated. Under this alternative, there would be no immediate elimination of groundwater RBC exceedances although

RBCs in groundwater could be achieved in the near term (likely within approximately 2 years).

Baseline data collected prior to the Pilot Study indicates that biodegradation is occurring naturally in this area as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates and time to reach background after the Pilot Study, VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation.

Cost

The relative cost for this alternative is medium with respect to other alternatives for this AOC. This alternative would cost approximately $1,622,000 associated with the cost of excavation and disposal of soil, electron donor, biological media, and labor and equipment involved in injection of EISB products. The volume of soil to be excavated and disposed of is low, and therefore the excavation cost is relatively low.

Alternative 4 – Alternative Potential DNAPL Area Excavation with EISB and Targeted Excavation

Implementability

The relative implementability of this alternative is moderate. The excavation area is approximately 17,100 square feet, based on the area of concentrations of VOCs indicative of DNAPL in groundwater, as delineated in the Site Characterization Report (Geosyntec, 2005; Figure 6-2). The depth of soil excavated would be approximately 10 feet. Approximately 6,500 cubic yards of soil and 410,000 gallons of groundwater would need to be disposed of properly. The volume of soil removed may generate technical or administrative challenges, and may result in the generation of nuisance vapors in the adjacent public parking area. Some shoring may be required along the western wall of Building 131 due to the proximity of the excavation to the foundation. Building 242 would need to be removed to make this action feasible. It is anticipated that this building will be removed during Site demolition activities beginning in July 2010.

EISB would be coupled with the excavation to eliminate groundwater RBC exceedances not addressed during the excavation. Direct push technology could be used to inject a grid of dechlorinating electron donor and microbial culture (Figure 6-1).

Monitor wells would also be installed in addition to existing monitor wells to monitor the surrounding area. Approximately one month would be required to inject the electron donor and microbial culture.

One additional targeted excavation would be required in the northwest corner of Building 131, due to an RBC exceedance for PCB in soil at one location. The targeted would cover a 20 foot by 20 foot area, excavated to 7 feet bgs or until groundwater is encountered.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Short-term exposure to soil exceedances would be immediately eliminated. There would be no immediate elimination of groundwater RBC exceedances although RBCs in groundwater should be achieved in the near term (likely within approximately 2 years). Baseline data collected prior to the Pilot Study indicates that biodegradation is occurring naturally in this area as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates and time to reach background after the Pilot Study, VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation.

The residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the increased risk associated with any large construction excavation action resulting from the operation of heavy machinery and increased road traffic. There is also a risk of public exposure to nuisance vapors with an excavation activity adjacent to the existing public parking area. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

This alternative would cost approximately $4,918,000. This is due to the cost of electron donor, biological media, labor and equipment involved in excavation and injection of EISB products, and disposal of 6,500 cubic yards of excavated soil and 410,000 gallons of groundwater as hazardous waste.

Alternative 5 – Whole-AOC Excavation and Dewatering

Implementability

This alternative is relatively difficult to implement. Excavation to approximately 10 feet bgs across the entire delineated AOC (approximately 48,100 square feet) represents a major excavation action (Figure 6-3). Approximately 17,900 cubic yards of soil and 1,160,000 gallons of groundwater would be removed. Sufficient volumes of suitable clean fill could be difficult to locate. Truck traffic through the Site and over public roads near the Airport would likely generate public concerns over traffic congestion. Air emissions from truck traffic and volatilizing compounds during the work would likely generate concerns from the public and regulatory agencies.

Shoring or appropriate sloping of the excavation walls is required to ensure a safe working environment, and avoid sloughing, and thus excessive soil removal. This alternative cannot be performed with the current buildings in place, which are expected to be removed during Site demolition activities beginning in July 2010. However, whole-AOC excavation and dewatering would be more implementable, but still difficult after demolition activities are completed.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Exposure to soil and groundwater exceedances would be essentially eliminated. However, this technology cannot be implemented in advance of demolition. The residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the incidental increased risk associated with any large construction excavation action resulting from the operation of heavy machinery and increased road traffic.

Environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

This alternative represents the highest cost at approximately $10,703,000. The primary cost elements are associated with excavation and offsite disposal of approximately 17,900 cubic yards of soil and 1,160,000 gallons of water.

Recommended Remedial Option

While all of the evaluated alternatives are considered technically feasible, Alternative 1, "No Action" is not sufficiently protective of human health given current soil and ground water concentrations in this AOC.

Alternative 2 "Monitored Natural Attenuation" is also not considered to be sufficiently protective of human health given the long time frame anticipated to reach risk based concentrations or background.

Alternative 3 "EISB with Targeted Excavation" would achieve risk based concentrations. Based on the pilot study performed within this AOC to evaluate the EISB alternative, it is estimated that RBCs can be met across the AOC within approximately 2 years. Baseline data collected prior to the Pilot Study indicates that biodegradation is occurring naturally in this area as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. While there is not currently sufficient data to evaluate natural degradation rates and time to reach background after the Pilot Study, VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation. The small scale of the proposed excavation would not pose significant construction risk or cause significant environmental impact.

Alternative 4 "Alternative Potential DNAPL area Excavation with EISB and Targeted Excavation" would remediate the source area rapidly through direct excavation. However, since EISB remedial timeframes for the potential DNAPL area and the balance of the AOC are substantially similar (as observed during the Building 131/242 EISB Pilot Study (Appendix G)), there would be no difference in remediation timeframe between this alternative and the EISB with Targeted Excavation alternative. Similarly, there would be no difference in anticipated final constituent concentrations between this alternative and the EISB with Targeted Excavation alternative. There is an incremental risk associated with the operation of heavy machinery and increased road

traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. Although the footprint of the proposed remedial area is equivalent for Alternatives 3 and 4, Alternative 4 is estimated to cost approximately $3,300,000 more than Alternative 3.

Because there is no difference in the timeframe, proposed cleanup area, or anticipated final constituent concentrations in the AOC to offset the increased cost, physical risk, and environmental impacts of a large excavation activity, this alternative is not economically feasible vs. Alternative 3.

Alternative 5 "Whole AOC Excavation" would not be technically feasible until demolition has been completed. According to the schedule provided by the Port, demolition in this area will be completed no sooner than August, 2010. Because of this constraint, although the alternative would immediately reduce constituent concentrations to background through direct excavation, the overall timeframe for the remedial process is no better than that of Alternatives 3 and 4 which could be implemented in advance of demolition.

Baseline data collected prior to the Pilot Study indicates that biodegradation is occurring naturally in this area as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs are likely to be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates and time to reach background after the Pilot Study, VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation. There is an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Alternative 5 is estimated to cost approximately $5,800,000 more than Alternative 4 and $9,000,000 more than Alternative 3.

Based on this assessment, this Alternative is not economically feasible. The incremental benefit of further reducing constituent concentrations vs. Alternative 3, would not be offset by the increased cost, physical risk, and environmental impacts of a large excavation activity.

The recommended remedial alternative for this AOC Building 131/242 is Alternative 3 "EISB with targeted excavation". The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

VOC concentrations in soil gas are expected to decline as sources are removed in nearby soil and groundwater. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts from the Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

It is anticipated that the proposed remedial action (EISB with targeted excavation) will reduce the remaining VOC mass in place, to below RBCs likely within approximately 2 years and to background conditions over time. Groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. The excavation would remove the RBC exceedance in soil. Due to extremely low hydraulic gradient, groundwater velocities in the Building 131/242 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors, along with the natural degradation processes observed prior to the EISB pilot study, cause the footprint of impacted groundwater to be very stable to declining and unlikely to migrate to Convair Lagoon.

Based on historical Site data, lateral migration of impacted groundwater appears to be in equilibrium with natural attenuation of the constituents, which results in a stable or decreasing area of impact over time. Based on current Site data, natural attenuation is also expected to further reduce the concentrations of residual VOCs in areas which are currently below RBC levels and not directly addressed by Alternative 3. As a result, it is unlikely that impacted groundwater will migrate to Convair Lagoon over time.

The primary remedial goal (i.e., achieving RBCs) proposed for the recommended remedial option for this AOC is consistent with maximum benefit to the people of the State in that further reduction of the anticipated residual constituent concentration

would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. This combination of technologies has been proven to be effective in reducing short- and long-term risk or hazard. It is also implementable, protective of human health, and cost effective.

6.4.2 AOC Building 156

This AOC is impacted with PCBs and PCE in soil at concentrations that exceed RBCs. In addition, PCE in soil gas exceeds RBCs. The primary remedial goal for this AOC is reduction of human health risk to acceptable levels, defined as achieving the site-specific RBCs presented in Tables 5-1 through 5-4. The secondary remedial goal is achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action;
2. Targeted excavations for PCBs and PCE exceeding RBCs in soil;
3. Alternative excavation of metals exceeding background concentrations in soil; and
4. Whole-AOC excavation of soil that exceeds background concentrations, to approximately 10 feet bgs, with dewatering.

The results of the detailed analysis of alternatives for this AOC are presented below, along with a brief description of each alternative. The results are summarized for comparison in Table 6-3.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable with regard to the criteria as defined in Section 6.2.

Overall Protection of Human Health

The overall ability of No Action to be protective of human health is limited, because the concentrations of compounds that exceed RBCs will not be mitigated by performing No Action.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Targeted Excavations

Implementability

Targeted excavations are readily implementable for the AOC Building 156. Two targeted excavations would be required (Figure 6-2). The extent of each targeted excavation would cover approximately a 10 foot by 10 foot area around one PCB RBC exceedance as well as one PCE RBC exceedance. The depth of soil would be excavated to approximately 5 feet bgs. The volume of soil removed would not generate technical or administrative challenges.

Overall Protection of Human Health

The overall ability of targeted excavations to be protective of human health at this AOC is high. RBC exceedances in soil would be eliminated. The PCE RBC exceedances in soil gas would reduce as the constituents remaining in groundwater and soil naturally degrade.

Cost

The relative cost to implement targeted excavations would be low due to capital costs and no O&M costs would be incurred. The cost is approximately $35,000 for removal and disposal of excavated soil as hazardous waste and associated excavation backfill costs.

Alternative 3 – Alternative Metals Excavation

Implementability

Alternative excavation of metals in soil to background concentrations is moderately implementable at the Site. The extent of the proposed excavation would cover approximately an area of 24,100 square feet (Figure 6-2). Soil would be excavated to a

depth of approximately 5 feet bgs. The volume of soil removed would be approximately 4,500 cubic yards. The alternative excavation areas are located beneath Building 156. Due to the nature of the construction of this building, this alternative could not be implemented with the building remaining in place. However, metals excavation and dewatering would be readily implementable after demolition activities in this area have been completed.

Overall Protection of Human Health

The overall ability of alternative excavation to be protective of human health at this AOC is high. RBC exceedances in soil would be eliminated and residual metals concentrations would be reduced to background. The PCE RBC exceedances in soil gas would also be eliminated during the soil removal activity. However, there is an increased risk associated with any large construction excavation action resulting from operation of heavy machinery and increased road traffic. The residual concentrations additionally addressed by this Alternative vs. Alternative 2 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

The relative cost to implement an excavation of metals to background would be high due to capital costs and no O&M costs would be incurred. The cost is approximately $2,300,000 for removal and disposal as hazardous waste of 4,500 cubic yards of soil.

Alternative 4 – Whole-AOC Excavation and Dewatering

Implementability

Excavation of metals and VOCs in soil to background concentrations is relatively difficult to implement. Excavation to approximately 10 feet bgs across the entire delineated AOC (approximately 70,000 square feet) (Figure 6-3) represents a major excavation action. Approximately 26,000 cubic yards of soil and 1,680,000 gallons of groundwater would be removed. Sufficient volumes of suitable clean fill could be

difficult to locate. Truck traffic through the Site and over public roads near the Airport would likely generate public concerns over traffic congestion. Air emissions from truck traffic and volatilizing compounds during the work would be difficult to control and would likely generate concerns from the public and regulatory agencies.

Shoring or appropriate sloping of the excavation walls would be required to ensure a safe working environment, and avoid sloughing, and thus excessive soil removal. This alternative is not feasible with the current buildings in place. However, whole-AOC excavation and dewatering would be more implementable, yet still difficult, after demolition activities are completed.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Short- and long-term exposure to soil and groundwater exceedances would essentially be eliminated. However, there is an increased risk associated with large construction excavation actions, resulting from the operation of heavy machinery and increased road traffic. The residual concentrations additionally addressed by this Alternative vs. Alternative 2 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

This alternative has a high cost of approximately $14,324,000. The primary cost elements are associated with excavation and offsite disposal of approximately 26,000 cubic yards of soil and removal of approximately 1,680,000 gallons of water.

Recommended Remedial Option

While all of the evaluated alternatives are considered technically feasible, Alternative 1, "No Action" is not sufficiently protective of human health given current soil concentrations in this AOC.

Alternative 2 "Targeted Excavation" would achieve risk based concentrations immediately upon removal of the impacted soil. This Alternative would be readily implementable in advance of demolition activities. The small scale of the proposed excavations would not pose significant construction risk or environmental impact.

Alternative 3 "Alternative Metals Excavation" would remediate the area with metals above background rapidly through direct excavation, but this alternative could not be implemented in advance of demolition. Alternative 2 would result in more rapid achievement of RBC goals because it could be implemented in advance of demolition, reducing potential exposure of demolition workers to soil impacts. According to the schedule provided by the Port, demolition in this area will be completed no sooner than August 2010. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Because all RBC exceedances are addressed immediately by Alternative 2, the benefit which would be achieved by attaining background concentrations for metals is relatively small, and is offset by the near term achievement of RBC goals in advance of Site demolition. There is an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. Alternative 3 is estimated to cost approximately $2,300,000 more than Alternative 2.

Based on this assessment, this alternative is not economically feasible. The incremental benefit of further reducing constituent concentrations vs. Alternative 2 would not be offset by the increased near-term exposure of construction workers, increased cost, physical risk, and environmental impacts of a large excavation activity.

Alternative 4 "Whole AOC Excavation" would remediate the area with metals and VOCs above background rapidly through direct excavation, but this alternative could not be implemented in advance of demolition. According to the schedule provided by the Port, demolition in this area will be completed no sooner than August 2010. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Because all RBC exceedances are addressed immediately by Alternative 2, the benefit which would be achieved by attaining background concentrations for metals and VOCs is relatively small, and is offset by the near term achievement of RBC goals in advance of Site demolition afforded by Alternative 2. There is an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental

impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. Alternative 4 is estimated to cost approximately $14,300,000 more than Alternative 2 and $10,000,000 more than Alternative 3. Based on this assessment, this Alternative is not economically feasible

The recommended remedial alternative for AOC Building 156 is Alternative 2 "Targeted Excavation". The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). The residual VOC concentrations below site-specific RBCs not addressed by Alternative 2 are likely to be reduced to background over time through natural degradation. Achievement of the RBCs developed within this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

VOC concentrations in soil gas are expected to decline as sources are removed in nearby soil. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

It is anticipated that the proposed remedial action (targeted excavation) will immediately eliminate the VOC and PCB mass in soils exceeding RBCs, further reducing potential future impacts to Convair Lagoon. The residual soils impacted with metals above background but below RBCs are located primarily in shallow soil, above the groundwater table. Due to extremely low hydraulic gradient, groundwater velocities in the Building 156 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon.

Based on historical Site data, lateral migration of impacted groundwater appears to be in equilibrium with natural attenuation of the constituents, which results in a stable or decreasing area of impact over time. Natural attenuation is also expected to further reduce the concentrations of residual VOCs in areas which are currently below RBC levels and not directly addressed by Alternative 2. Groundwater monitoring data

collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background.

The primary remedial goal (i.e., achieving RBCs) proposed for the recommended remedial option for this AOC is consistent with maximum benefit to the people of the State in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. This technology is effective in reducing short- and long-term risk or hazard. It is also highly implementable, protective of human health, and cost effective.

6.4.3 AOC Building 158

This AOC has soil and groundwater that exceeds CrVI RBCs (trench/construction worker). In addition, a localized area of soil historically contained fuel-related VOCs where LNAPL has been observed. Southeast of Building 158, VOCs exceed RBCs in soil gas. The primary remedial goal for this AOC is reduction of human health risk to acceptable levels, defined as achieving the site-specific RBCs presented in Tables 5-1 through 5-4. The secondary remedial goal is achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action;

2. Targeted excavation of CrVI RBC exceedances and potential LNAPL in soil, and ISR by injection of FeSO4 for CrVI in groundwater;

3. Targeted excavation of CrVI RBC exceedances and potential LNAPL in soil, and ISR by injection of EVO for CrVI in groundwater;

4. Targeted excavation of potential LNAPL in soil, ISR by in-situ soil mixing of $FeSO_4$ for CrVI in shallow soil, and ISR by injection of EVO for CrVI in groundwater; and

5. Targeted excavation of potential LNAPL in soil, ISR by in-situ soil mixing of $FeSO_4$ for CrVI in shallow soil and groundwater; and

6. Whole-AOC excavation of soil that exceeds background concentrations, to approximately 10 feet bgs, with dewatering.

The results of the detailed analysis of alternatives for this AOC are presented below, along with a brief description of each alternative. The results are summarized for comparison in Table 6-4.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable as the criteria are defined in Section 6.2.

Overall Protection of Human Health

The overall ability of No Action to be protective of human health is limited, because the concentrations of compounds that exceed risk or hazard will not be mitigated by performing No Action.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Targeted Excavation and ISR by Ferrous Sulfate

Implementability

The relative implementability of this alternative is high. $FeSO_4$ in solution would be injected by direct push technology into the area indicated on Figure 6-1. Direct push equipment is readily available and this technology is easily implemented to the shallow depths required at this AOC.

The extent of the targeted excavation would cover approximately a 40 foot by 80 foot area around the CrVI exceedance and potential LNAPL location (Figure 6-2). The average depth of the soil excavation is estimated to be 4 feet below ground surface. The volume of soil removed would not generate technical or administrative challenges.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is moderate. There would be rapid reduction in near-term exposure to groundwater exceedances and exposure to soil exceedances would be eliminated. Because reduction in the groundwater would be limited to the area directly affected by the injections, there is the potential for rebound if the injectate is not uniformly dispersed in the subsurface. Long-term exposure would be reduced to acceptable levels as it is expected that risk and hazard will be reduced using this alternative.

Cost

This alternative has a medium cost relative to the other alternatives at approximately $426,000. This cost is primarily due to the cost of the excavation. Because of this, the cost of implementation could increase significantly if the volume of excavated material increases. Targeted O&M costs would primarily be associated with sample collection and analysis, data trending, and reporting.

Alternative 3 – Targeted Excavation and ISR by Emulsified Vegetable Oil

Implementability

The relative implementability of this alternative is high. EVO in solution would be injected by direct push technology into the area indicated on Figure 6-1. Direct push equipment is readily available and this technology is easily implemented to the shallow depths required at this AOC.

The extent of the targeted excavation would cover approximately a 40 foot by 80 foot area around the CrVI exceedance and potential LNAPL location (Figure 6-2). The average depth of the soil excavation is estimated to be 4 feet below ground surface. The volume of soil removed would not generate technical or administrative challenges.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. There would be relatively rapid reduction in exposure to groundwater exceedances and exposure to soil exceedances would be eliminated. Because the EVO will persist in the subsurface for several years, promoting an extended period of anaerobic conditions, the effects of the injection are more likely to address CrVI impacts within fine-grained materials which may not be immediately contacted by the direct injection event. Long-

term exposure would be reduced to acceptable levels as it is expected that risk and hazard will be reduced using this alternative.

Cost

This alternative has a medium cost relative to the other alternatives at approximately $447,000. This cost is primarily due to the cost of the excavation. Because of this, the cost of implementation could increase significantly if the volume of excavated material increases. O&M costs would primarily be associated with sample collection and analysis, data trending, and reporting.

Alternative 4 –Targeted Excavation and In-Situ Mixing of Ferrous Sulfate with Direct Push Injection of EVO

Implementability

The relative implementability of this alternative is moderate. EVO in solution would be injected by direct push technology into the area indicated on Figure 6-1. Direct push equipment is readily available and this technology is easily implemented to the shallow depths required at this AOC.

The extent of the targeted excavation would cover approximately a 10 by 10 foot area around the potential LNAPL location (Figure 6-2). Soil would be excavated to the groundwater surface, approximately 8 feet bgs. The volume of soil removed would not generate technical or administrative challenges.

Shallow soil CrVI impacts would be addressed through in-situ soil mixing with an $FeSO_4$ solution. A large diameter auger would be used to mix the vadose zone soil while simultaneously injecting a $FeSO_4$ solution throughout the area of impacted vadose zone material to promote efficient contact of the $FeSO_4$ with the CrVI within the vadose zone.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is moderate. There would be relatively rapid reduction in exposure to groundwater exceedances and exposure to soil exceedances would likely be eliminated. Although the mixing technology promotes the distribution of the $FeSO_4$ throughout the treatment area any material not directly contacted will not be reduced to CrIII, which may result in the need for additional remedial action. Total Cr concentrations will remain above background, but below RBC concentrations. Because the EVO will persist in the

subsurface for several years, promoting an extended period of anaerobic conditions, the effects of the injection are more likely to address CrVI impacts within fine-grained materials which may not be immediately contacted by the direct injection event. Long-term exposure would be reduced to acceptable levels as it is expected that risk and hazard will be reduced using this alternative.

Cost

This alternative has a medium cost relative to the other alternatives at approximately $419,000. This cost is primarily due to the cost of the in-situ soil mixing. The costs for treatment of incremental volumes of soil by soil mixing are significantly less than excavation costs. Because of this, the cost of implementation of a soil mixing alternative would be less affected due to incremental increases in the volume of material to be treated, as compared with an equivalent excavation alternative. O&M costs would primarily be associated with sample collection and analysis, data trending, and reporting.

Alternative 5 –Targeted Excavation and In-Situ Mixing of Ferrous Sulfate

Implementability

The relative implementability of this alternative is moderate. The extent of the targeted excavation would cover approximately a 10 by 10 foot area around the potential LNAPL location (Figure 6-2). Soil would be excavated to the groundwater surface, approximately 8 feet bgs. The volume of soil removed would not generate technical or administrative challenges.

Shallow soil and groundwater CrVI impacts would be addressed through in-situ soil mixing with a $FeSO_4$ solution. A large diameter auger would be used to mix through both the vadose and saturated zone soil while simultaneously injecting a $FeSO_4$ solution throughout the area of impacted material to promote efficient contact of the $FeSO_4$ with the CrVI.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is moderate. The exposure to soil and groundwater exceedances would likely be eliminated. Although the mixing technology promotes the distribution of the $FeSO_4$ throughout the treatment area any material not directly contacted will not be reduced to CrIII. Total Cr concentrations will remain above background, but below RBC concentrations. Because the $FeSO_4$ will not persist in the subsurface, rebound may occur from impacts within

fine-grained materials which are not directly contacted by soil mixing, which may result in the need for additional remedial action. Long-term exposure would be reduced to acceptable levels as it is expected that risk and hazard will be reduced using this alternative.

Cost

This alternative has a medium cost relative to the other alternatives at approximately $400,000. This cost is primarily due to the cost of the in-situ soil mixing. The costs for treatment of incremental volumes of soil by soil mixing are significantly less than excavation costs. Because of this, the cost of implementation of a soil mixing alternative would be less affected due to incremental increases in the volume of material to be treated, as compared with an equivalent excavation alternative. O&M costs would primarily be associated with sample collection and analysis, data trending, and reporting.

Alternative 6 – Whole-AOC Excavation and Dewatering

Implementability

The relative implementability of this alternative is difficult. Excavation to approximately 10 feet bgs across the entire delineated AOC (Figure 6-3) would be more difficult to implement than targeted excavation at the hot-spot. An area of approximately 5,350 square feet would need to be excavated. Shoring or appropriate sloping of the excavation walls is required to ensure a safe working environment, avoid sloughing, protect the foundation of the neighboring Building 140, and reduce excessive soil removal. However, it is not possible to perform the whole-AOC excavation with Building 158 still in place. This remedy would be more implementable, yet still difficult, after demolition is completed.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Exposure to soil and groundwater RBC exceedances would essentially be eliminated. The residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include

the incidental risk associated with any large construction excavation action resulting from operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

This alternative has the highest cost at approximately $1,229,000. The primary cost elements are associated with excavation and offsite disposal of approximately 2,000 cubic yards of soil and 130,000 gallons of water.

Recommended Remedial Option

While all of the evaluated alternatives are considered technically feasible, Alternative 1, "No Action" is not sufficiently protective of human health given current soil and ground water concentrations in this AOC.

Alternative 2 "Targeted Excavation and ISR with Ferrous Sulfate" would potentially achieve RBCs immediately in soil through direct excavation and in groundwater within weeks of performing the remedial action. Because this alternative reduces elevated concentrations of CrVI through reduction to CrIII, the total chromium concentration in the system will remain above background concentrations, but will no longer result in significant potential risk from soil or groundwater. Because immediate and direct contact is required between the CrVI and $FeSO_4$ solution, the development of preferential pathways and non-uniform distribution of the solution in the subsurface may result in untreated areas leading to rebound, requiring multiple rounds of injection to reach goals. The scale of the proposed excavation would not pose significant construction risk or environmental impact.

Alternative 3 "Targeted Excavation and ISR with Emulsified Vegetable Oil" would potentially achieve RBCs immediately in soil through direct excavation and in groundwater within months of performing the remedial action. Because this alternative reduces elevated concentrations of CrVI through reduction to CrIII, the total chromium concentration in the system will remain above background concentrations, but will no longer result in significant potential risk from soil or groundwater. Because EVO is long-lived and can promote ongoing reductive conditions in the subsurface for several years, it is likely to reduce CrVI to CrIII throughout the injection area, including zones with low permeability which may not be initially affected by the injection event. Additional injections are not anticipated to be required. The scale of the proposed

excavation would not pose significant construction risk or environmental impact. However, if the area of soil requiring excavation increases, the cost of implementation could increase significantly. The cost for this alternative is approximately $20,000 more than Alternative 2.

Alternative 4 "Targeted Excavation, In-Situ Mixing of $FeSO_4$, and Direct Push Injection of EVO" would potentially achieve RBCs in soil and groundwater within months of performing the remedial action. Because this alternative reduces elevated concentrations of CrVI through reduction to CrIII, the total chromium concentration in the system will remain above background concentrations, but will no longer result in significant potential risk from soil or groundwater. Although soil mixing would promote the uniform distribution and direct application of FeSO4 throughout the vadose zone, CrVI impacts with insufficient direct contact with the FeSO4 solution would not be reduced to CrIII in the vadose zone, potentially requiring further remedial action. Because EVO is long-lived and can promote ongoing reductive conditions in the subsurface for several years, it is likely to reduce CrVI to CrIII throughout the injection area, including zones with low permeability which may not be initially affected by the injection event. Additional injections are not anticipated to be required. The small scale of the proposed excavation would not pose significant construction risk or environmental impact. The cost for this alternative is approximately $7,000 less expensive than Alternative 2 and $28,000 less than Alternative 3. However, it relies on chemical reduction of CrVI in shallow soil as opposed to direct removal. Incremental cost for changes in soil treatment volumes would be less for this approach than Alternatives 2 and 3.

Alternative 5 "Targeted Excavation and In-Situ Mixing of FeSO4" would potentially achieve RBCs in soil and groundwater within weeks of performing the remedial action. Because this alternative reduces elevated concentrations of CrVI through reduction to CrIII, the total chromium concentration in the system will remain above background concentrations, but will no longer result in significant potential risk from soil or groundwater. Although soil mixing would promote the uniform distribution and direct application of FeSO4 throughout the impacted zone, CrVI impacts with insufficient direct contact with the FeSO4 solution would not be reduced to CrIII. Rebound may be observed due to incomplete contact with fine grain materials, potentially requiring further remedial action. The small scale of the proposed excavation would not pose significant construction risk or environmental impact. The cost for this alternative is approximately $25,000 less expensive than Alternative 2, $50,000 less than Alternative 3 and approximately $20,000 less than Alternative 4. It also relies on chemical reduction of CrVI in shallow soil as opposed to direct removal; however soil mixing

throughout the impacted area significantly reduces the potential for rebound to occur. Incremental cost for changes in soil treatment volumes would be less for this approach than Alternatives 2 and 3.

Alternative 6 "Whole AOC Excavation" would not be technically feasible until demolition has been completed. According to the schedule provided by the Port, demolition in this area will be completed no sooner than August 2010. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Because all RBC exceedances are addressed immediately by Alternative 2, the incremental benefit which would be achieved by attaining background concentrations is relatively small, and is offset by the near term achievement of RBC goals in advance of Site demolition Afforded by Alternatives 2-5. There is an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. The cost for this alternative is approximately $650,000-$750,000 more than Alternatives 2-5. Based on this assessment, this alternative is not economically feasible.

The recommended remedial alternative for AOC Building 158 is Alternative 3 "Targeted Excavation and ISR with EVO". Although this alternative is moderately more expensive than Alternatives 2, 4, and 5, the added benefits to direct removal of the chromium impacted vadose zone soils and reduced possibility of for additional remedial action outweigh these costs based on the existing volume estimates. However, if the post-demolition investigation of the extent of CrVI impacts significantly increases the estimated volume of impacted soils, Alternative 4 may be deemed to be the more feasible alternative. The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). Achievement of the RBCs developed within this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

VOC concentrations in soil gas are expected to decline as sources are removed in nearby soil. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not

currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to extremely low hydraulic gradient, groundwater velocities in the Building 158 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon. Based on historical Site data, lateral migration of impacted groundwater is in equilibrium with natural attenuation of the constituents, which results in a stable or decreasing area of impact over time. Further, the proposed remedial action (Excavation and ISR with EVO) will rapidly reduce available CrVI to CrIII which has much lower solubility and toxicity. The CrIII will precipitate due to its reduced solubility, further reducing the potential for future migration of impacts to Convair Lagoon.

The primary remedial goal (i.e., achieving RBCs) proposed for the recommended remedial option for this AOC is consistent with maximum benefit to the people of the State in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

The excavation or in-situ reduction alternatives would remove the RBC exceedance in vadose zone soil. Although background conditions will not be achieved for chromium in this AOC, the residual concentrations of CrIII proposed is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. This technology is effective in reducing short- and long-term risk or hazard. It is also implementable, protective of human health, and cost effective.

6.4.4 AOC Building 102

This AOC has soil that exceeds RBCs for 1,2,4-trimethylbenzene, naphthalene, and TPH. The primary remedial goal for this AOC is reduction of human health risk to acceptable levels, defined as achieving the site-specific RBCs presented in Tables 5-1 through 5-4. The secondary remedial goal is achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No action;

2. Targeted excavation of soil RBC exceedances for VOCs in vadose soil, with chemical oxidation/biostimulation to remediate soil TPH exceedance in saturated soil.

3. Targeted excavation of soil RBC exceedances for VOCs and targeted excavation and dewatering for RBC exceedances for TPH.

4. Whole-AOC excavation of soil that exceeds background concentrations, to approximately 10 feet bgs, with dewatering.

The results of the detailed analysis of alternatives for this AOC are presented below, along with a brief description of each alternative. The results are summarized for comparison in Table 6-5.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable as the criteria are defined in Section 6.2.

Overall Protection of Human Health

The overall ability of No Action to be protective of human health is limited, because the concentrations of compounds that exceed risk or hazard will not be mitigated by performing No Action.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Targeted Excavation with Chemical Oxidation/Biostimulation

Implementability

The relative implementability of this alternative is high. A targeted excavation is readily implementable for the AOC Building 102. One targeted excavation would be required (Figure 6-2). The extent of the targeted excavation would cover approximately

a 10 foot by 10 foot area around one soil RBC exceedance for 1,2,4-trimethylbenzene and naphthalene. The depth of soil would be excavated to approximately 7 feet bgs. The volume of soil removed would not generate technical or administrative challenges.

Chemical oxidation/biostimulation of the small area with residual TPH impacts at the water table is readily implementable. RegenOx© with ORC Advanced© would be injected by direct push technology into the area indicated on Figure 6-1. Direct push equipment is readily available and this technology is easily implemented in the shallow depth required at this AOC.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health at this AOC is moderate. RBC exceedances in shallow soil would be eliminated by excavation; potential RBC exceedances below the water table could be addressed by the chemical oxidation and biostimulation. However heavy-range hydrocarbons may not be fully remediated by this approach.

Cost

The relative cost to implement targeted excavations with chemical oxidation/biostimulation would be low with respect to capital costs and no O&M costs would be incurred. The cost is approximately $67,000 for removal and disposal of excavated soil as hazardous waste, injection of RegenOx©/ORC© and monitoring costs.

Alternative 3 – Targeted Excavations and Dewatering

Implementability

The relative implementability of this alternative is high. A targeted excavation is readily implementable for the AOC Building 102. Two targeted excavation would be required (Figure 6-2). The extent of the targeted excavation would cover approximately a 10 foot by 10 foot area around one soil RBC exceedance for 1,2,4-trimethylbenzene and naphthalene and a similar sized excavation around one RBC exceedance for TPH at the water table. Soil would be excavated to approximately the water table in the VOC excavation and approximately 1-2 feet below the water table in the vicinity of the TPH impacts followed by dewatering to remove mobile LNAPL to the extent practicable. The volume of soil removed would not generate technical or administrative challenges, however the TPH excavation is located partially beneath Building 102 and is not feasible until after the building has been removed during Site demolition.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health at this AOC is high. RBC exceedances in shallow soil would be eliminated by excavation and mobile LNAPL would be recovered to the greatest extent practicable;

Cost

The relative cost to implement targeted excavations with dewatering would be low with respect to capital costs and no O&M costs would be incurred. The cost is approximately $75,000 for removal and disposal of excavated soil and water.

Alternative 4 – Whole-AOC Excavation and Dewatering

Implementability

The relative implementability of this excavation to 10 feet bgs across this AOC would be difficult. The area to be excavated is approximately 7,000 square feet (Figure 6-3). A volume of approximately 2,600 cubic yards of soil and 168,000 gallons of water would be excavated. This excavation is not feasible if the buildings are in place. However, whole-AOC excavation and dewatering would be more implementable after demolition activities in this area are completed.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Exposure to soil and groundwater impacts would essentially be eliminated. The residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the incidental risk associated with any large construction excavation action resulting from operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

This alternative has a relatively high cost at approximately $1,578,000. The primary cost elements are associated with excavation offsite disposal of approximately 2,600 cubic yards of soil and 168,000 gallons of groundwater.

Recommended Remedial Option

While all of the evaluated alternatives are considered technically feasible, Alternative 1, "No Action" is not sufficiently protective of human health given current soil and ground water concentrations in this AOC.

Alternative 2 "Targeted Excavation with Chemical Oxidation/Biostimulation" could achieve risk based concentrations within weeks of performing the remedial action, however the chemical oxidation/biostimulation may not be effective on heavier-range hydrocarbons. The small scale of the proposed excavation would not pose significant construction risk or environmental impact.

Alternative 3 "Targeted Excavations with Dewatering" could achieve risk based concentrations immediately in the VOC area. However, the TPH area would not be feasible to excavate until demolition of Building 102 has been completed. The small scale of the proposed excavations would not pose significant construction risk or environmental impact. This alternative is approximately $7,000 more than Alternative 2.

Alternative 4 "Whole AOC Excavation and Dewatering" would not be technically feasible until demolition has been completed. Because of this constraint, although the alternative would immediately reduce constituent concentrations to background through direct excavation, the overall timeframe for the remedial process is longer than that of Alternative 2 which could be implemented in advance of demolition. According to the schedule information provided by the Port, demolition in this area will be completed no sooner than August 2010. Because all RBC exceedances in shallow soil are addressed by Alternatives 2 or 3, the incremental benefit which would be achieved by attaining background concentrations is relatively small. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. There is an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. Alternative 4 is estimated to cost

approximately $1,500,000 more than Alternative 2 or 3. Based on this assessment, this alternative is not economically feasible.

The recommended remedial alternative for AOC Building 102 is Alternative 3 "Targeted Excavation with Dewatering". The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

VOCs in soil gas are expected to decline in concentration as sources are removed in nearby soil and groundwater. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. This data will be used in the post remediation risk assessment to confirm remedial actions are complete.

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

It is anticipated that the proposed remedial action (targeted excavation with dewatering) will achieve RBCs through direct physical removal. Due to extremely low hydraulic gradient, groundwater velocities in the Building 102 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon. Based on historical Site data, lateral migration of impacted groundwater is in equilibrium with natural attenuation of the constituents, which results in a stable or decreasing area of impact over time. This will mitigate future potential for impacted groundwater to migrate to Convair Lagoon.

The primary remedial goal (i.e., achieving RBCs) proposed for the recommended remedial option for this AOC is consistent with maximum benefit to the people of the State, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. This combination of technologies has been proven to be effective in reducing short- and long-term risk or hazard. It is also moderately implementable, protective of human health, and cost effective.

6.4.5 AOC Building 120 South

Two samples from an area in the south-central portion of Building 120 exceed RBCs for TPH in soil. Interim action excavations in this area revealed the presence of LNAPL containing PCB concentrations of approximately 8.2 mg/kg. The primary remedial goal for this AOC is removal of LNAPL and reduction of human health risk to acceptable levels, defined as achieving the site-specific RBCs presented in Tables 5-1 through 5-4. The secondary remedial goal is achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action;
2. SVE for TPH concentration exceeding RBCs in soil; and
3. Targeted excavation of soil that exceeds RBCs and removal of LNAPL, to approximately 8 feet bgs.
4. Whole AOC excavation and dewatering

The results of the detailed analysis of alternatives for this AOC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-6.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable with regard to the criteria as defined in Section 6.2.

Overall Protection of Human Health

The overall ability of No Action to be protective of human health is limited, since the concentrations of compounds that exceed RBCs will not be evaluated by the implementation of No Action. Based on observed indicators of natural attenuation, it is

possible that background concentrations would be achieved over time. However, without a monitoring program, future Site conditions would be unknown.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Soil Vapor Extraction

Implementability

SVE is moderately implementable. SVE would use a blower to generate a vacuum to pull soil vapors out of the shallow soil and pass the vapors through a treatment media. A soil vapor extraction well could easily be installed. All equipment required could be readily placed onsite. The SVE system would operate for at least six months and possibly up to two years because of the heavy-end hydrocarbons in this AOC. PCB concentrations would be unlikely to be reduced to meet RBCs through this method.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is low. Soil vapor would be removed from within an extraction well and surrounding soil, however PCB impacts would not be addressed.

Cost

The relative cost to implement SVE at the Site is relatively high due to both capital and O&M costs. To lease an SVE system for six months and the associated monitoring, labor, and laboratory analytical costs would be approximately $230,000.

Alternative 3 – Targeted Excavation with LNAPL removal

Implementability

This alternative is moderately implementable. The size of the excavation is large, covering an area of approximately 2,000 square feet, to a depth of approximately 8 feet bgs (Figure 6-2). Approximately 600 cubic yards of soil and 10,000 gallons of water would need to be removed and disposed.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Soil RBC exceedances and LNAPL would be eliminated.

Cost

This alternative has a high cost at approximately $480,000. The primary cost elements are associated with excavation and offsite disposal of approximately 600 cubic yards of soil and 10,000 gallons of water.

Alternative 4 – Whole-AOC Excavation and Dewatering

Implementability

The relative implementability of this excavation to 10 feet bgs across this AOC would be difficult. The area to be excavated is approximately 14,000 square feet (Figure 6-3). A volume of approximately 5,200 cubic yards of soil and 300,000 gallons of water would be excavated. Shoring or appropriate sloping of the excavation walls is required to ensure a safe working environment, avoid sloughing, and thus excessive soil removal. This alternative is not feasible with the current buildings in place. However, whole-AOC excavation and dewatering would be implementable after demolition activities in this area have been completed.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Exposure to soil and groundwater RBC exceedances would essentially be eliminated. The residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the incidental risk associated with any large construction excavation action resulting from operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

This alternative has a relatively high cost at approximately $3,100,000. The primary cost elements are associated with excavation offsite disposal of approximately 5,200 cubic yards of soil and 300,000 gallons of groundwater.

Recommended Remedial Option

While all of the evaluated alternatives are considered technically feasible, Alternative 1, "No Action" is not sufficiently protective of human health given current soil and ground water concentrations in this AOC.

Alternative 2 "Soil Vapor Extraction" would be unlikely to achieve risk based concentrations. This remedial alternative is more expensive and requires a longer timeframe for remediation than Alternative 3, which would excavate material from a similar area.

Alternative 3 "Targeted Excavation with LNAPL Removal" could achieve risk based concentrations within weeks of performing the remedial action, however the excavation could not be completed until after building demolition, which will be completed no sooner than August 2010. The moderate scale of the proposed excavation would not pose significant construction risk or environmental impact.

Alternative 4 "Whole AOC Excavation and Dewatering" would not be technically feasible until demolition has been completed.

According to the schedule provided by the Port, demolition in this area will be completed no sooner than August 2010. Because all RBC exceedances in shallow soil are addressed immediately by Alternative 3, the incremental benefit which would be achieved by attaining background concentrations is relatively small, and is offset by the near term achievement of RBC goals in advance of Site demolition. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. There is an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. Alternative 4 is estimated to cost approximately $2,660,000 more than Alternative 3. Based on this assessment, this alternative is not economically feasible.

The recommended remedial alternative for this AOC is Alternative 3 "Targeted Excavation with LNAPL Removal". The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

The proposed remedial action (targeted excavation) will remove TPH and PCB impacts in excess of RBCs. Due to extremely low hydraulic gradient, groundwater velocities in the Building 120 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon. Based on historical Site data, lateral migration of impacted groundwater is in equilibrium with natural attenuation of the constituents, which results in a stable or decreasing area of impact over time.

The primary remedial goal (i.e., achieving RBCs) proposed for the recommended remedial option for this AOC is consistent with maximum benefit to the people of the State, does not unreasonably affect present and anticipated beneficial use of water and does not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

6.4.6 AOC Building 130/166 AST/120/121

This AOC contains groundwater that exceeds RBCs for VOCs a localized exceedance for PCBs in soil and groundwater, soil gas that exceeds RBCs for VOCs, and a

localized area of soil contains PCE exceeding RBCs. The primary remedial goal for this AOC is reduction of human health risk to acceptable levels, defined as achieving the site-specific RBCs presented in Tables 5-1 through 5-4. The secondary remedial goal is achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action;
2. MNA for VOCs in groundwater;
3. EISB for VOCs in groundwater and targeted excavations for VOCs and PCBs exceeding the Alternative PCB standard. in soil;
4. Alternative excavation of potential DNAPL in groundwater and excavation of PCBs exceeding the Alternative PCB standard in soil, followed by EISB; and
5. Whole-AOC excavation of soil that exceeds background concentrations, to approximately 10 feet bgs, with dewatering.

The results of the detailed analysis of alternatives for this AOC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-7.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable with regard to the criteria as defined in Section 6.2.

Overall Protection of Human Health

The overall ability of No Action to be protective of human health is limited, since the concentrations of compounds that exceed RBCs will not be evaluated by the implementation of No Action. Based on observed indicators of natural attenuation, it is possible that RBCs could be reduced and background concentrations would be achieved over time. However, without a monitoring program, future Site conditions would be unknown.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Monitored Natural Attenuation

Implementability

MNA is readily implementable at the Site since a monitoring program, required infrastructure, and equipment already exists. Additional monitor wells could be readily installed if needed.

Overall Protection of Human Health

The overall ability of MNA to be protective of human health at this AOC is low. There is little to no near-term reduction of risk offered by this alternative. Measures to reduce worker exposures would be required for trenching and construction work during Site redevelopment and engineering controls would be required after Site redevelopment. The long-term exposure should be reduced over time but the time frame to achieve this reduction is long.

Cost

The approximate cost to implement MNA would be moderate at approximately $403,000, with respect to both capital costs and O&M costs of the other proposed alternatives. Capital costs would primarily be associated with installation of monitor wells. O&M costs would primarily be associated with sample collection and analysis, data trending, and reporting. It was assumed that this AOC would be monitored for 30 years.

Alternative 3 – EISB and Targeted Excavations

Implementability

This alternative is moderately implementable. Based on the results of the bench-scale and pilot scale studies, addition of electron donor and microbial culture would expedite dechlorination rates. Direct push technology would be used to inject a grid of electron donor and dechlorinating microbial culture. The approximate area requiring electron donor and microbial culture is shown on Figure 6-1. Monitor wells would also be installed in addition to existing monitor wells to monitor the degradation process in the

AOC. Approximately two months would be required to inject the electron donor and microbial culture through temporary direct push borings.

The extent of the targeted excavation for VOCs would cover approximately a 10 foot by 10 foot area around the detected RBC exceedance adjacent to the former maintenance pit in Building 120 and several targeted excavations to remove residual PCB impacted soil in the vicinity of the 30-inch East SWCS (Figure 6-2). Soil would be excavated to the groundwater surface, approximately 7 feet bgs.

The extent of the excavations for the PCB excavations would be based on soil sampling. For the purposes of this feasibility study it is estimated that four excavations of PCB RBC exceedances will be required with an average size of 10 feet by 25 feet. Excavations will be extended to 1-2 feet below the water table to allow for removal of associated groundwater where necessary. The volume of soil removed would not generate technical or administrative challenges.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Short-term exposure to soil exceedances would be immediately eliminated. There would potentially be immediate elimination of groundwater PCB RBC exceedances and VOC RBCs in groundwater could be achieved in the near term (likely within approximately 2 years following soil remediation activities). Baseline data collected prior to the Pilot Study indicates that biodegradation is occurring naturally in this area as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-year timeframe. VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation. Groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background.

The RBC exceedance for PCBs in groundwater is likely the result of residual PCBs in soil which were not completely removed during the removal and replacement of the 30-inch East SWCS. Once the soil PCB RBC exceedances have been removed, the related groundwater impacts are also expected to meet RBCs. PCBs have very low water solubility and will adsorb to organic carbon in the environment. Remaining PCB groundwater impacts are unlikely to migrate due to the low groundwater flow rates and this strong tendency to adsorb onto available organic carbon in the subsurface. It is anticipated that PCBs will meet RBCs following the soil remediation activities.

Cost

The relative magnitude of cost for this alternative is medium with respect to other alternatives for this AOC. This alternative would cost approximately $2,750,000. This is due to the cost of electron donor, biological media, labor and equipment involved in injection of EISB products, and for excavation and disposal of VOC and PCB impacted soil.

Alternative 4 – Alternative Potential DNAPL/PCB Area Excavation with EISB

Implementability

The relative implementability of this alternative is difficult. The alternative excavation area is approximately 59,200 square feet, based on the potential DNAPL area delineated from elevated groundwater concentrations in the Site Characterization Report (Geosyntec, 2005; Figure 6-2) and the estimated PCB excavation areas. The depth of soil excavated would be approximately 10 feet. Approximately 19,760 cubic yards of soil and 1,250,000 gallons of groundwater would need to be disposed of, most likely as hazardous waste. The volume of soil removed may generate technical or administrative challenges. This excavation is not feasible if the buildings are in place.

EISB would be coupled with the excavation to mitigate remaining groundwater RBC exceedances. Direct push technology could be used to inject a grid of dechlorinating electron donor and microbial culture (Figure 6-1). Monitor wells would also be installed in addition to existing monitor wells to monitor the surrounding area. Approximately two months would be required to inject the electron donor and dechlorinating microbial culture.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Short-term exposure to soil exceedances would be immediately eliminated. There would be no immediate elimination of groundwater RBC exceedances although RBCs in groundwater could be achieved in the near term (likely within approximately 2 years). Baseline data collected prior to the Pilot Study indicates that biodegradation is occurring naturally in this area as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates, groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to

reach background. VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation.

The residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the increased risk associated with any large construction excavation action resulting from the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

The RBC exceedance for PCBs in groundwater is likely the result of residual PCBs in soil which were not completely removed during the removal and replacement of the 30-inch East SWCS. Once the soil PCB RBC exceedances have been removed, the related groundwater impacts are also expected to meet RBCs. PCBs have very low water solubility and will adsorb to organic carbon in the environment. Remaining PCB groundwater impacts are unlikely to migrate due to the low groundwater flow rates and this strong tendency to adsorb onto available organic carbon in the subsurface. It is anticipated that PCBs will meet RBCs following the soil remediation activities.

Cost

This alternative has a relatively high cost of approximately $14,300,000. This is due to the cost of disposal of excavated soil and groundwater, most likely as hazardous waste, electron donor and biological media, and labor and equipment involved in excavation and injection of EISB products.

Alternative 5 – Whole-AOC Excavation and Dewatering

Implementability

This alternative is relatively difficult to implement. Excavation to approximately 10 feet bgs across the entire delineated AOC (approximately 167,100 square feet) represents a major excavation action (Figure 6-3). Approximately 62,000 cubic yards of soil and 4,000,000 gallons of groundwater would be removed. Sufficient volumes of

suitable clean fill could be difficult to locate. Truck traffic through the Site and over public roads near the Airport would likely generate public concerns over traffic congestion. Air emissions from truck traffic and volatilizing compounds during the work would likely generate concerns from the public and regulatory agencies. This excavation is not feasible if the buildings are in place. However, whole-AOC excavation and dewatering would be more implementable, yet still difficult, after demolition activities are completed.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is moderate. Exposure to soil and groundwater exceedances would essentially be eliminated. However, this technology cannot be implemented in advance of demolition. The residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the incidental increased risk associated with any large construction excavation action resulting from the operation of heavy machinery and increased road traffic. Environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

This alternative represents the highest cost at approximately $37,300,000. The primary cost elements are associated with excavation and offsite disposal of approximately 62,000 cubic yards of soil and 4,000,000 gallons of water.

Recommended Remedial Option

While all of the evaluated alternatives are considered technically feasible, Alternative 1, "No Action" is not sufficiently protective of human health given current soil and ground water concentrations in this AOC.

Alternative 2 "Monitored Natural Attenuation" is also not considered to be sufficiently protective of human health given the long time frame anticipated to reach risk based concentrations or background.

Alternative 3 "EISB with Targeted Excavations" would achieve risk based concentrations. Based on the EISB pilot study performed within the Building 131/242 AOC, it is estimated that RBCs can likely be met across this AOC within approximately 2 years. Baseline data from the Pilot Study area shows that biodegradation is occurring naturally at the Site as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. Although only low concentrations of VC are observed in groundwater over the majority of AOC 166AST/120/121, this is most likely due to the native microbial community, which will be augmented with the microbial culture during the EISB implementation. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs will likely be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates, groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation. The residual concentrations below site-specific RBCs not directly addressed by Alternative 3 are also likely to be reduced to background over time through natural degradation. The small scale of the proposed excavations would not pose significant construction risk or cause significant environmental impact.

Although Alternative 3 would cost approximately $2,350,000 more than Alternative 2, the increased cost is offset by the large improvement in remedial effectiveness and time frame.

Alternative 4 "Potential DNAPL area and Targeted Excavations with EISB" would remediate the source area rapidly through direct excavation. According to the schedule provided by the Port, demolition in this area will be completed no sooner than August 2010. Because of this constraint, although Alternative 4 would immediately reduce constituent concentrations within the DNAPL area to background, the overall timeframe for the remedial process is likely to be longer than that of Alternative 3 which could be implemented in advance of demolition.

This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Alternative 4 represents an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. Alternative 4 is estimated to cost approximately $11,550,000 more than Alternative 3 and $13,900,000 more than Alternative 2.

Because there is a potentially longer implementation schedule and no difference in the proposed cleanup area or anticipated final constituent concentrations in the AOC to offset the increased cost, physical risk, and environmental impacts of a large excavation activity, this alternative is not economically feasible vs. Alternative 3.

Alternative 5 "Whole AOC Excavation" would not be technically feasible until demolition has been completed. According to the schedule provided by the Port, demolition in this area will be completed no sooner than August 2010. Because of this constraint, although Alternative 5 would immediately reduce constituent concentrations to background through direct excavation, the overall timeframe for the remedial process is no better than that of Alternative 3 which could be implemented in advance of demolition.

This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Alternative 5 represents an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. Alternative 5 is estimated to cost approximately $23,000,000 more than Alternative 4, $34,500,000 more than Alternative 3, and $36,900,000 more than Alternative 2.

Because there is no difference in the proposed cleanup area or anticipated final constituent concentrations in the AOC to offset the increased cost, physical risk, and environmental impacts of a large excavation activity, this alternative is not economically feasible vs. Alternative 3.

The recommended remedial alternative for this AOC is Alternative 3 "EISB with targeted excavations". The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

VOC concentrations in soil gas are expected to decline as sources are removed in nearby soil and groundwater. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to the extremely low hydraulic gradient, groundwater velocities in the Building 120 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors, along with the natural degradation processes observed during the EISB pilot study, cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon. Based on historical Site data, lateral migration of impacted groundwater is in equilibrium with natural attenuation of the constituents, which results in a stable or decreasing area of impact over time.

It is anticipated that the proposed remedial action (EISB with targeted excavation) will reduce the remaining VOC mass in place, to below RBCs likely within approximately 2 years and to background conditions over time. Groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. The excavations would remove the RBC exceedances in soil. The residual concentrations of constituents below site-specific RBCs not directly addressed by Alternative 3 are also likely to be reduced to background over time through natural degradation. This will mitigate future potential for impacted groundwater to migrate to Convair Lagoon.

The primary remedial goal (i.e., achieving RBCs) proposed for the recommended remedial option for this AOC is consistent with maximum benefit to the people of the State, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. This combination of technologies has been proven to be effective in reducing short- and long-term risk or hazard. It is also implementable, protective of human health, and cost effective.

6.4.7 AOC Former Maintenance Yard

This AOC has groundwater with concentrations that exceed RBCs for VOCs and soil gas concentrations that exceed RBCs for VOCs. The primary remedial goal for this AOC is reduction of human health risk to acceptable levels, defined as achieving the site-specific RBCs presented in Tables 5-1 through 5-4. The secondary remedial goal is achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action;
2. MNA for VOCs in groundwater;
3. EISB for VOCs in groundwater;
4. Alternative excavation of metals exceeding background concentrations in soil with EISB for VOCs in groundwater; and
5. Whole-AOC excavation of soil that exceeds background concentrations, to approximately 10 feet bgs, with dewatering.

The results of the detailed analysis of alternatives for this AOC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-8.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable with regard to the criteria as defined in Section 6.2.

Overall Protection of Human Health

The overall ability of No Action to be protective of human health is limited, since the concentrations of compounds that exceed RBCs will not be evaluated by the implementation of No Action. Based on observed indicators of natural attenuation, it is possible that background concentrations would be achieved over time. However, without a monitoring program, future Site conditions would be unknown.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Monitored Natural Attenuation

Implementability

MNA is readily implementable at the Site since a monitoring program, required infrastructure, and equipment already exists. Additional monitor wells could be readily installed if needed.

Overall Protection of Human Health

The overall ability of MNA to be protective of human health at this AOC is low. There is little to no near-term reduction of risk offered by this alternative. Measures to reduce worker exposures would be required for trenching and construction work during Site redevelopment and engineering controls would be required after Site redevelopment. Exposure to RBC exceedances is reduced over time but the time frame to achieve this reduction is long.

Cost

The cost to implement MNA would be low with respect to both capital costs and O&M costs. The approximate cost of implementing MNA is $122,000. Capital costs would primarily be associated with installation of monitoring wells. O&M costs would primarily be associated with sample collection and analysis, data trending, and reporting. It was assumed that this area would be monitored for 10 years due to the moderate sized VOC plume which would most likely take a moderate amount of time to naturally attenuate to below RBCs.

Alternative 3 – Enhanced In-Situ Bioremediation

Implementability

This alternative is moderately implementable. Based on the results of the bench-scale study, addition of electron donor and microbial culture would be required to achieve rapid dechlorination rates. Direct push technology could be used to inject a grid of electron donor and dechlorinating microbial culture (Figure 6-1). Monitor wells would also be installed in addition to existing monitor wells to monitor the surrounding area.

Less than one month would most likely be required to inject the electron donor and microbial culture through temporary direct push borings.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. However, there would be no immediate reduction in exposure to groundwater RBC exceedances. Under this alternative, RBCs in groundwater could be achieved in the near term (likely within approximately 2 years).

Baseline data from the Pilot Study area shows that biodegradation is occurring naturally at the Site as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. Although no VC is observed in the AOC Former Maintenance Yard, this is most likely due to the native microbial community, which will be augmented with the KB-1 culture during the EISB implementation. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates, groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation.

Cost

The relative magnitude of cost for this alternative is medium with respect to other alternatives for this AOC. This alternative would cost approximately $198,000. This is due to the cost of electron donor, biological media, and labor and equipment involved in injection of EISB products.

Alternative 4 – Alternative Metals Excavation with EISB

Implementability

The relative implementability of this alternative is moderate. The excavation area is approximately 13,300 square feet. The depth of soil excavated would be approximately 5 feet. Approximately 3,500 cubic yards of soil would need to be disposed of most likely as hazardous waste.

EISB would be implemented to address groundwater RBC exceedances, while excavation would be performed to address metals impacts above background in soils.

Direct push technology could be used to inject a grid of dechlorinating electron donor and microbial culture. Monitor wells would also be installed in addition to existing monitor wells to monitor the surrounding area. Less than one month would be required to inject the electron donor and biological media.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Soil does not exceed RBCs; however, background would be achieved for metals within the AOC immediately. There would be no immediate elimination of groundwater RBC exceedances although RBCs in groundwater should be achieved in the near term (likely within approximately 2 years) It is expected as groundwater concentrations decrease, soil gas concentrations will decrease as well and be within RBCs in approximately 2 years.

Baseline data from the Pilot Study area shows that biodegradation is occurring naturally at the Site as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. Although no VC is observed in groundwater samples collected from the AOC Former Maintenance Yard, this is most likely due to the native microbial community, which will be augmented with the KB-1 culture during the EISB implementation. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates, groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation.

The residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include an increased risk associated with any large construction excavation action resulting from the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large

excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

The relative magnitude of cost for this alternative is high with respect to other alternatives for this AOC. This alternative would cost approximately $1,940,000. This is due to the cost of disposal of excavated soil and groundwater, most likely as hazardous waste, electron donor and biological media, and labor and equipment involved in excavation and injection of EISB products.

Alternative 5 – Whole-AOC Excavation and Dewatering

Implementability

This alternative is relatively difficult to implement. Excavation to approximately 10 feet bgs across the entire delineated AOC (approximately 167,100 square feet) represents a major excavation action (Figure 6-3). Approximately 18,700 cubic yards of soil and 1,210,000 gallons of groundwater would be removed. Sufficient volumes of suitable clean fill could be difficult to locate. Truck traffic through the Site and over public roads near the Airport would likely generate public concerns over traffic congestion. Air emissions from truck traffic and volatilizing compounds during the work would likely generate concerns from the public and regulatory agencies.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Exposure to soil and groundwater impacts would essentially be eliminated. However, the residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the incidental risk associated with any large construction excavation action resulting from operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

This alternative represents the highest cost at approximately $11,200,000. The primary cost elements are associated with excavation and offsite disposal of approximately 18,700 cubic yards of soil and 1,210,000 gallons of water.

Recommended Remedial Option

While all of the evaluated alternatives are considered technically feasible, Alternative 1, "No Action" is not sufficiently protective of human health given current soil and ground water concentrations in this AOC.

Alternative 2 "Monitored Natural Attenuation" is also not considered to be sufficiently protective of human health given the long time frame anticipated to reach risk based concentrations or background.

Alternative 3 "Enhanced In-Situ Bioremediation" would achieve risk based concentrations. Based on the pilot study performed within the Building 131/242 AOC to evaluate the EISB alternative, it is estimated that RBCs can be met across this AOC within approximately 2 years. Baseline data from the Pilot Study area shows that biodegradation is occurring naturally at the Site, as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene.

VOCs in soil gas are expected to decline in concentration as sources are removed in nearby soil and ground water. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. This data will be used in the post remediation risk assessment to confirm remedial actions are complete.

Baseline data from the Pilot Study area shows that biodegradation is occurring naturally at the Site as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. Although no VC is observed in groundwater samples collected from the AOC Former Maintenance Yard, this is most likely due to the native microbial community, which will be augmented with the KB-1 culture during the EISB implementation. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates, groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or

bioaugmentation. The small scale of the proposed excavation would not pose significant construction risk or cause significant environmental impact.

Although Alternative 3 would cost approximately $76,000 more than Alternative 2, the increased cost is offset by the large improvement in remedial time frame.

Alternative 4 "Alternative Metals Excavation with EISB" would remediate the area with metals exceeding background in the vadose zone rapidly through direct excavation. Although several metals exceed background concentrations, they do not pose a significant risk to current or anticipated future receptors. This alternative would cost approximately $1,740,000 more than Alternative 3 and $1,810,000 more than Alternative 2.

This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Given the small potential for migration and the lack of RBC exceedances of the metals impacts addressed by Alternative 4, the incremental benefit of achieving background concentrations for metals is not offset the increased cost, physical risk, and environmental impacts of a large excavation activity, this alternative is not economically feasible vs. Alternative 3.

Alternative 5 "Whole AOC Excavation" would not be technically feasible until demolition has been completed. According to the schedule provided by the Port, demolition in this area will be completed no sooner than August 2010. Because of this constraint, although Alternative 5 would immediately reduce constituent concentrations to background through direct excavation, the overall timeframe for the remedial process is no better than that of Alternative 3 which could be implemented in advance of demolition.

This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Alternative 5 represents an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. This alternative would cost approximately $9,260,000 more than Alternative 4 and $11,000,000 more than Alternative 3

Because there is not a significant risk posed to anticipated Site receptors from VOC and metals concentrations below the RBCs, the incremental benefit of immediately achieving background concentrations for VOCs and metals does not offset the increased cost, physical risk, and environmental impacts of a large excavation activity. This alternative is not economically feasible vs. Alternative 3 or 4.

The recommended remedial alternative for this AOC is Alternative 3 "Enhanced in Situ Bioremediation". The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). The residual VOC concentrations below site-specific RBCs not addressed by Alternative 3 are likely to be reduced to background over time through natural degradation. Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

VOCs in soil gas are expected to decline in concentration as sources are removed in nearby soil and ground water. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. This data will be used in the post remediation risk assessment to confirm remedial actions are complete.

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to extremely low hydraulic gradient across this AOC, groundwater velocities in the AOC Former Maintenance Yard are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors, along with the natural degradation processes observed during the EISB pilot study, cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon. Based on historical Site data, lateral migration of impacted groundwater is in equilibrium with natural attenuation and degradation of the constituents, which results in a stable or decreasing area of impact over time. It is anticipated that the proposed remedial action (EISB) will reduce the remaining VOC mass in place, to below RBCs within approximately 2 years and to background conditions over time. Groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. Natural attenuation is expected to further reduce the concentrations of residual VOCs in areas which are currently below RBC levels and not

directly addressed by Alternative 3. This will mitigate future potential for impacted groundwater to migrate to Convair Lagoon. Residual metals concentrations above background are localized in extent, located above the water table, and unlikely to be significantly mobile.

The primary remedial goal (i.e., achieving RBCs) proposed for the recommended remedial option for this AOC is consistent with maximum benefit to the people of the State, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. This combination of technologies has been proven to be effective in reducing short- and long-term risk or hazard. It is also moderately implementable, protective of human health, and cost effective.

6.4.8 AOC Building 180

This AOC contains groundwater impacted with VOCs. Soil TPH concentrations slightly exceed RBCs at one location. There is no indication that NAPL is present at this AOC. The primary remedial goal for this AOC is reduction of human health risk to acceptable levels, defined as achieving the site-specific RBCs presented in Tables 5-1 through 5-4. The secondary remedial goal is achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action;
2. Monitored Natural Attenuation;
3. Enhanced In-Situ Bioremediation with Targeted Excavation;
4. Whole-AOC excavation of soil that exceeds background concentrations, to approximately 10 feet bgs, with dewatering.

The results of the detailed analysis of alternatives for this AOC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-9.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable as the criteria are defined in Section 6.2.

Overall Protection of Human Health

The overall ability of No Action to be protective of human health is limited, since the concentrations of compounds that exceed RBCs will not be evaluated by the implementation of No Action. Based on observed indicators of natural attenuation, it is possible that background concentrations would be achieved over time. However, without a monitoring program, future Site conditions would be unknown.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Monitored Natural Attenuation

Implementability

MNA is readily implementable at the Site since a monitoring program, required infrastructure, and equipment already exists. Additional monitor wells could be readily installed if needed.

Overall Protection of Human Health

The overall ability of MNA to be protective of human health at this AOC is moderate. The groundwater RBC exceedance in this area is limited to one sample location and the sampled concentration was very close to the RBC when last sampled in 2005. It is possible that additional sampling will show that the RBC has been achieved. The potential TPH RBC exceedance is located at 1 foot bgs and only slightly exceeds RBCs.

Cost

The cost to implement MNA would be low with respect to both capital costs and O&M costs. The approximate cost of implementing MNA is $44,000. Capital costs would primarily be associated with installation of a monitoring well. O&M costs would primarily be associated with sample collection and analysis, data trending, and reporting. It was assumed that this area would be monitored for 3 years due to the small sized VOC plume which would most likely take a short amount of time to naturally attenuate to below RBCs.

Alternative 3 – EISB with Targeted Excavation

Implementability

This alternative is moderately implementable. Based on the results of the bench-scale study, addition of electron donor and microbial culture would be required to achieve rapid dechlorination rates. Direct push technology could be used to inject a grid of electron donor and dechlorinating microbial culture (Figure 6-1). A monitor well would also be installed to monitor the impacted area. Less than one month would be required to inject the electron donor and microbial culture through temporary direct push borings.

One targeted excavation would be required (Figure 6-2). The extent of the targeted excavation would cover approximately a 10 foot by 10 foot area to approximately 5 feet bgs around one soil RBC exceedance for TPH. The excavation would then be extended laterally to an estimated 20 foot by 20 foot area to approximately 2 feet bgs to address a horizon of shallow TPH and PCB impacts at approximately 1 foot BGS. The volume of soil removed would not generate technical or administrative challenges.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Under this alternative, RBCs in groundwater could be achieved in the near term (likely within approximately 2 years).

Baseline data from the Pilot Study area shows that biodegradation is occurring naturally in this area as evidenced by reducing conditions, and the presence of cis-1,2-DCE, VC, and ethene. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs are likely to be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates, groundwater monitoring data collected from the Pilot Study during the next two

years will aid in the evaluation of natural degradation rates and time to reach background. VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation.

Cost

The relative magnitude of cost for this alternative is medium with respect to other alternatives for this AOC. This alternative would cost approximately $145,000. This is due to the cost of electron donor, biological media, labor and equipment involved in injection of EISB products, and labor associated with the subsequent monitoring program.

Alternative 4 – Whole-AOPC Excavation and Dewatering

Implementability

The relative implementability of this alternative is difficult. Excavation to approximately 10 feet bgs across the entire delineated AOPC would be difficult to implement. The area to be excavated is approximately 7,000 square feet (Figure 6-3). A volume of approximately 2,600 cubic yards of soil and 168,000 gallons of water would be excavated. This excavation is not feasible if the buildings are in place.

Overall Protection of Human Health

There is limited risk associated with this AOC. Implementation of this alternative does not significantly threaten human health. However, the residual concentrations additionally addressed by this Alternative vs. Alternative 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the incidental risk associated with any large construction excavation action resulting from operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs.

Cost

This alternative has a relatively high cost at approximately $1,580,000. The primary cost elements are associated with excavation offsite disposal of approximately 2,600 cubic yards of soil and 168,000 gallons of groundwater.

Recommended Remedial Option

While all of the evaluated alternatives are considered technically feasible, Alternative 1, "No Action" is not sufficiently protective of human health given current soil and ground water concentrations in this AOC.

Alternative 2 "Monitored Natural Attenuation" is protective of human health because the VOC exceedances observed in this AOC are relatively close to the RBC and may achieve remedial goals by MNA over a relatively short time frame. Monitoring would allow for this process to be tracked and worker exposure to be monitored.

Alternative 3 "EISB with Targeted Excavation" would achieve risk based concentrations. Based on the pilot study performed within this AOC to evaluate the EISB alternative, it is estimated that RBCs are likely to be met across the AOC within approximately 2 years. Baseline data from the Pilot Study area show that biodegradation is occurring naturally at the Site as evidenced by reducing conditions and the presence of cis-1,2-DCE, VC, and ethene. The EISB Pilot Study was able to significantly enhance the natural degradation rates so that the RBCs should be achieved over an approximate 2-year timeframe. While there is not currently sufficient data to evaluate natural degradation rates, groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. VOCs are expected to continue to be reduced beyond the RBC goal, ultimately reaching background conditions without further biostimulation or bioaugmentation. The small scale of the proposed excavation would not pose significant construction risk or cause significant environmental impact.

Alternative 4 "Whole AOC Excavation" would not be technically feasible until demolition has been completed. According to schedule information provided by the Port, demolition in this area will be completed no sooner than August, 2010. Because all RBC exceedances are addressed immediately by Alternative 2, the incremental benefit which would be achieved by attaining background concentrations is relatively small, and is offset by the near term achievement of RBC goals in advance of Site demolition.

This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. There is an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. Alternative 4 is estimated to cost approximately $1,430,000 more than Alternative 3.

Based on this assessment, this alternative is not economically feasible. The incremental benefit of further reducing constituent concentrations vs. Alternative 3 would not be offset by the increased near-term exposure of construction workers, increased cost, physical risk, and environmental impacts of a large excavation activity.

The recommended remedial alternative for this AOC is Alternative 3 "EISB with targeted excavation". The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). The residual concentrations below site-specific RBCs not addressed by Alternative 3 are likely to be reduced to background over time through natural degradation. Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

VOCs in soil gas are expected to decline in concentration as sources are removed in nearby soil and ground water. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. This data will be used in the post remediation risk assessment to confirm remedial actions are complete.

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to extremely low groundwater flow gradient across this AOC, groundwater velocities in the Building 180 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors, along with the natural degradation processes observed during the EISB pilot study, cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon. Based on historical Site data, lateral migration of impacted

groundwater is in equilibrium with natural attenuation and degradation of the constituents, which results in a stable or decreasing area of impact over time. It is anticipated that the proposed remedial action (EISB with targeted excavation) will reduce the remaining VOC mass in place, to below RBCs within approximately 2 years and to background conditions over time. The excavation would remove the RBC exceedance in soil. Based on existing Site data, natural attenuation is expected to further reduce the concentrations of residual VOCs in areas which are currently below RBC levels and not directly addressed by Alternative 3. These areas will also likely reach background through natural degradation over time. Groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. As a result, it is very unlikely that impacted groundwater will migrate to Convair Lagoon.

The primary remedial goal (i.e., achieving RBCs) proposed for the recommended remedial option for this AOC is consistent with maximum benefit to the people of the State, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. This combination of technologies has been proven to be effective in reducing short- and long-term risk or hazard. It is also moderately implementable, protective of human health, and cost effective.

6.4.9 AOPC Explosives Area

This AOPC contains soil impacted with PCBs at a concentration of 1.5 mg/kg. There is no risk or hazard associated with this location as this value does not exceed the lowest RBC for PCBs of 4.2 mg/kg; however, this soil exceeds the proposed PCB target cleanup goal of 1.0 mg/kg presented in Section 5.3. Concentrations of COPCs in soil and groundwater within this AOPC are considered acceptably protective of human-health, and risk-based cleanup is not required at this AOPC. There is no indication that NAPL is present at this AOPC. The secondary remedial goal for this AOPC is elimination of impacts by achieving background concentrations.

The alternatives retained for detailed analysis are as follows:

1. No Action; and

2. Alternative excavation to approximately 5 feet bgs.

The results of the detailed analysis of alternatives for this AOPC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-10.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable as the criteria are defined in Section 6.2.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. This alternative is protective of human health.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Alternative Excavation

Implementability

The relative implementability of this alternative is moderate. Excavation to approximately 5 feet bgs across the entire delineated AOPC would be more difficult to implement than No Action. The area to be excavated is approximately 100 square feet. A volume of approximately 20 cubic yards would be excavated.

Overall Protection of Human Health

There is no calculated risk associated with this AOPC. Implementation of this alternative does not significantly threaten human health. Given the small volume of the proposed excavation the incidental risk and impacts associated with excavation and disposal are low.

Cost

This alternative has a high cost of approximately $27,000. The primary cost elements are associated with excavation and offsite disposal of approximately 20 cubic yards of soil.

Recommended Remedial Option

Alternative 1 – No Action would be an acceptable alternative for this AOPC. There is no significant risk associated with impacts within this AOPC. However, the PCB impacts in shallow soil exceed the alternative PCB remedial goal of 1.0 mg/kg.

Alternative 2 "Alternative Excavation" would achieve the alternative PCB cleanup goal for PCBs in the AOC. Although this would not result in significantly lower risk to receptors at the Site, given the small volume of PCB impacted soil in this area, the costs wouldn't be substantial. This Alternative costs approximately $27,000 more than Alternative 1.

The recommended remedial alternative for this AOPC is Alternative 2 - Alternative Excavation. There is no significant risk associated with this AOPC; however, this Alternative will meet the Alternative PCB soil cleanup goal of 1.0 mg/kg. Based on this, the residual concentrations proposed to remain at this AOPC are consistent with maximum benefit to the people of the State, do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. There is no identified short- or long-term risk or hazard associated with this AOPC. It is also highly implementable, protective of human health, and cost effective.

6.4.10 AOPC Test Cell #4/Area D

This AOPC was observed in 2005 to contain a sheen of LNAPL in monitor well 142WNC. A sheen of LNAPL was observed in subsequent monitoring during the third quarter of 2007. TDY is currently working with the RWQCB to obtain closure for the Area D/Test Cell #4 area. Based on the available data, concentrations of COPCs in soil and groundwater within this AOPC appear to be protective of human-health.

The DEH had previously requested a vapor risk assessment be performed in Area D using historical soil analytical data (GTI, 1992; 1995). Recent studies indicate that soils data are the least preferable media to use when evaluating vapor risk due to residual VOCs. Based on these data, a soil gas survey will be performed in Area D to evaluate potential health risks due to vapor intrusion. In the event remediation is warranted, the primary remedial goal for this AOPC will be the removal of LNAPL. The secondary remedial goal for this AOPC will be reduction of human health risk to acceptable levels and the elimination of impacts by achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action;
2. Two Phase Extraction for LNAPL and VOCs in soil and groundwater;
3. Targeted Excavation for LNAPL and VOCs in soil and groundwater; and
4. Whole-AOPC excavation of soil that exceeds background concentrations, to approximately 10 feet bgs, with dewatering.

The results of the detailed analysis of alternatives for this AOPC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-11.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable as the criteria are defined in Section 6.2.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. This alternative is protective of human health.

Cost

The relative cost to implement No Action at the Site is low with respect to both capital and O&M costs. No additional costs would be expected by implementation of this alternative.

Alternative 2 – Two Phase Extraction

Implementability

The relative implementability of this alternative is high. TPE would use a liquid-ring pump to generate a vacuum, which would be applied to well TC4WNC by lowering a suction pipe into the well (approximate location shown on Figure 2-1). The suction would be applied for approximately 8 hours. Soil vapor, groundwater, and available mobile LNAPL would be removed from within the well and surrounding saturated soil. In addition, shallow groundwater from the surrounding saturated soil would be drawn into the well for removal. It is expected that the applied vacuum would generate between 15 and 30 standard cubic feet per minute (scfm) of vapor flow and 3 to 5 gallons per minute of liquid.

Overall Protection of Human Health

There is no estimated risk associated with this AOPC. If future soil gas surveys indicate potential risk to human health, this alternative would efficiently mitigate risk in this area.

Cost

The relative cost to implement TPE at the Site is moderate with respect to both capital and O&M costs. To perform a TPE the cost would be approximately $27,000.

Alternative 3 – Targeted Excavation and Dewatering

Implementability

The relative implementability of this alternative is high. Excavation to approximately 10 feet bgs in the area of historically observed LNAPL (approximately 150 square feet) (Figure 6-2) represents a moderate excavation action. Approximately 50 cubic yards of soil and 5,000 gallons of water would need to be disposed.

Overall Protection of Human Health

There is no calculated risk associated with constituents detected within this AOPC. However, there is a risk associated with any large construction excavation action resulting from operation of heavy machinery and increased road traffic.

Cost

This alternative has a moderate cost at approximately $56,000. The primary cost elements are associated with excavation and offsite disposal of approximately 50 cubic yards of soil and 5,000 gallons of water.

Alternative 4 – Whole-AOPC Excavation and Dewatering

Implementability

The relative implementability of this alternative is moderate. Excavation to approximately 10 feet bgs across the entire delineated AOPC (approximately 12,510 square feet) (Figure 6-3) represents a moderate excavation action. Approximately 4,700 cubic yards of soil and 300,000 gallons of water would need to be disposed.

Overall Protection of Human Health

There is no calculated risk associated with constituents detected within this AOPC. The residual concentrations additionally addressed by this Alternative vs. Alternatives 2 or 3 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the risk associated with any large construction excavation action resulting from operation of heavy machinery and increased road traffic.

Cost

This alternative has the highest cost at approximately $2,800,000. The primary cost elements are associated with excavation and offsite disposal of approximately 4,700 cubic yards of soil and 300,000 gallons of water.

Recommended Remedial Option

Alternative 1 “No Action” is both technically feasible and protective of human health if no soil gas concentrations are identified in excess of the RBC and no LNAPL impacts are determined to be present.

Alternative 2 “Two-Phase Extraction” would achieve RBCs and remove mobile LNAPL if impacts are detected in Area D. This alternative is cost effective and could be easily scaled to the observed area of impacts.

Alternative 3 “Targeted Excavation” could achieve risk based concentrations within weeks of performing the remedial action. The small scale of the proposed excavation would not pose significant construction risk or environmental impact. Although Alternative 3 is slightly more costly than Alternative 2, the additional cost of a small excavation of approximately 150 square feet is offset by the improved ability to rapidly and completely remove the source area. Over a larger area, however, two phase extraction is significantly more cost effective and the benefits of direct excavation do not outweigh the cost. This Alternative costs approximately $29,000 more than Alternative 1.

Alternative 4 “Whole AOPC Excavation” would not be technically feasible until demolition has been completed. According to the schedule provided by the Port, demolition in this area will be completed no sooner than August 2010. Because there are no RBC exceedances in this AOPC, the incremental benefit which would be achieved by attaining background concentrations is relatively small. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. There is an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered. Alternative 4 is estimated to cost approximately $2,750,000 more than Alternatives 2 or 3.

Based on this assessment, this alternative is not economically feasible. The incremental benefit of further reducing constituent concentrations vs. Alternatives 2 or 3 would not be offset by the increased cost, physical risk, and environmental impacts of a large excavation activity.

The wells within the Area D AOPC will be gauged for the presence of LNAPL during routine semiannual sampling events. If no LNAPL is observed, a soil gas survey will be performed. If soil gas concentrations are below RBCs, No Action will be the selected Alternative. If LNAPL is observed over a limited area, Alternative 3 “Targeted Excavation” will be implemented. Alternative 2 “Two Phase Extraction” will be implemented if impacts are detected over an extensive area. VOCs in soil gas are expected to decline in concentration as sources are removed in nearby soil and ground water. Post-remediation soil gas survey data will be collected after soil gas conditions

have reached equilibrium. These soil gas results will be used in the post remediation risk assessment to confirm remedial actions are complete.

The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). The residual concentrations are below site-specific RBCs. Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) and is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to the extremely low hydraulic gradient, groundwater velocities in the Area D/Test Cell 4 AOC estimated to be less than 0.5 feet per year. These factors make migration of observed impacts unlikely. Based on this, the residual concentrations proposed to remain at this AOC are consistent with maximum benefit to the people of the State, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, the proposed alternatives are protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. There is no identified short- or long-term risk or hazard associated with this AOPC. They are moderately implementable, protective of human health, and cost effective.

6.4.11 AOPC Building 142

This AOPC contains groundwater impacted with PCE with concentrations up to 280 µg/L, which is below the lowest RBC calculated for PCE of 320 µg/L (commercial worker exposure scenario). A no-further-action determination was granted by the San Diego DEH in October 2000 based on current land use (PES, 2001). Concentrations of COPCs in soil and groundwater within the AOPC are considered acceptably protective

of human-health, and risk-based cleanup is not required at this AOPC. There is no indication that NAPL is present at this AOPC. The secondary remedial goal for this AOPC is elimination of impacts by achieving background concentrations.

The alternatives retained for detailed analysis are as follows:

1. No Action; and

2. Whole-AOPC excavation and dewatering to approximately 10 feet bgs.

The results of the detailed analysis of alternatives for this AOPC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-12.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable as the criteria are defined in Section 6.2.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. This alternative is fully protective of human health.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Whole-AOPC Excavation and Dewatering

Implementability

This alternative would be relatively difficult to implement. Excavation to approximately 10 feet bgs across the entire delineated AOPC would be more difficult to implement than No Action or MNA. The approximate total area to be covered is 6,500 square feet (Figure 6-3).

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. The residual concentrations additionally addressed by this Alternative vs. Alternative 1 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered.

Cost

This alternative has the highest cost at approximately $1,470,000. The primary cost elements are associated with excavation and offsite disposal of approximately 2,500 cubic yards of soil and 156,000 gallons of water.

Recommended Remedial Option

Alternative 1 "No Action" would be an acceptable alternative for this AOPC. There is no significant risk associated with impacts within this AOPC. The background VOC exceedance is localized in extent. Due to the extremely low hydraulic gradient, groundwater velocities in the Building 142 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors, along with the natural degradation processes observed during the EISB pilot study, cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon, with the potential to reach background concentrations over time.

Alternative 2 "Whole-AOPC Excavation and Dewatering" would achieve background concentrations for VOCs in the AOPC; however, this would not result in significantly lower risk to receptors at the Site. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Environmental impacts from fossil fuel consumption, carbon emissions, and landfill burden related to excavation activities must be considered when evaluating the relative benefit of remedial actions to address

concentrations below RBCs. This Alternative costs approximately $1,500,000 more than Alternative 1. Based on this assessment, this alternative is not economically feasible.

Given the small potential for migration of the VOC impacts from this area, the incremental benefit of achieving background concentrations for VOCs in the short term would not be offset by the increased cost, physical risk, and environmental impacts of an excavation activity.

The recommended remedial alternative for this AOPC is Alternative 1 "No Action". There is no significant risk associated with this AOPC. The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). The residual concentrations are below site-specific RBCs. Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to the extremely low hydraulic gradient, groundwater velocities in the Building 142 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors, along with the natural degradation processes observed during the EISB pilot study, cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon. Based on historical Site data, lateral migration of impacted groundwater is in equilibrium with natural attenuation and degradation of the constituents, which results in a stable or decreasing area of impact over time. It is anticipated that the remaining VOC mass will naturally attenuate to background conditions over time. Groundwater monitoring data collected from the Pilot Study during the next two years will aid in the evaluation of natural degradation rates and time to reach background. This will mitigate future potential for impacted groundwater to migrate to Convair Lagoon. Based on this, the residual concentrations proposed to remain at this AOC are consistent with maximum benefit to the people of the State, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect

present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. There is no identified short- or long-term risk or hazard associated with this AOPC. It is also highly implementable, protective of human health, and cost effective.

6.4.12 AOPC Southeast of Building 146

Data collected in 2003 indicate that groundwater at this AOPC could potentially be impacted with VC that exceeds RBCs. However, confirmation sampling conducted in 2005 indicates that concentrations have declined well below groundwater RBCs. No soil or soil gas detections exceed RBCs in this area. Therefore, there is no significant risk at this AOPC. There is no indication that NAPL is present at this AOPC. The secondary remedial goal for this AOPC is elimination of impacts by achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action; and

2. Whole-AOC excavation of soil that exceeds background concentrations, to approximately 10 feet bgs, with dewatering.

The results of the detailed analysis of alternatives for this AOC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-13.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable with regard to the criteria as defined in Section 6.2.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. This alternative is fully protective of human health

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Whole AOPC Excavation and Dewatering

Implementability

This alternative is relatively moderate to implement. Excavation to approximately 10 feet bgs across the entire delineated AOPC (approximately 100 square feet) (Figure 6-3) represents a minor excavation action. Approximately 37 cubic yards of soil and 2,400 gallons of groundwater would be removed. The volume of soil removed would not generate technical or administrative challenges.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. The residual concentrations additionally addressed by this Alternative vs. Alternative 1 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include an incremental risk associated with the operation of heavy machinery and increased road traffic. Further, environmental impacts from carbon emissions and landfill burden related to large excavation activities must also be considered.

Cost

This alternative has a moderate cost of approximately $40,000. The primary cost elements are associated with excavation and offsite disposal of approximately 37 cubic yards of soil and 2,400 gallons of water.

Recommended Remedial Option

Alternative 1 “No Action” would be an acceptable alternative for this AOPC. There is no significant risk associated with impacts within this AOPC. The background VOC exceedance is localized in extent. Due to the extremely low hydraulic gradient, groundwater velocities in the Building 142 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These

factors, along with the natural degradation processes observed during the EISB pilot study, cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon, with the potential to reach background concentrations over time.

Alternative 2 "Whole AOPC Excavation and Dewatering" would achieve background concentrations for VOCs in the AOPC; however, this would not result in significantly lower risk to receptors at the Site. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Environmental impacts from fossil fuel consumption, carbon emissions, and landfill burden related to excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs. This Alternative costs approximately $40,000 more than Alternative 1. Based on this assessment, this alternative is not economically feasible.

The recommended remedial alternative for this AOPC is Alternative 1 "No Action". There is no significant risk associated with this AOPC. The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). The residual concentrations are below site-specific RBCs. Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to the extremely low hydraulic gradient, groundwater velocities in the Building 146 area are estimated to be less than 0.5 feet per year, with most constituent transport occurring through dispersion and diffusion. These factors, along with the natural degradation processes observed during the EISB pilot study, cause the footprint of impacted groundwater to be very stable and unlikely to migrate to Convair Lagoon. Based on historical Site data, lateral migration of impacted groundwater is in equilibrium with natural attenuation and degradation of the constituents, which results in a stable or decreasing area of impact over time. It is anticipated that the remaining VOC mass will naturally attenuate to background conditions over time. Groundwater monitoring data collected from the Pilot Study during the next two years will aid in the

evaluation of natural degradation rates and time to reach background. This will mitigate future potential for impacted groundwater to migrate to Convair Lagoon. Based on this, the residual concentrations proposed to remain at this AOC are consistent with maximum benefit to the people of the State, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. There is no identified short- or long-term risk or hazard associated with this AOPC. It is also highly implementable, protective of human health, and cost effective.

6.4.13 AOPC Building 120 West

PCBs were detected in one shallow soil sample at a concentration greater than the alternative PCB soil cleanup goal of 1 mg/kg. No sample exceeded soil RBCs. Concentrations of COPCs in soil and groundwater within this AOPC are considered protective of human-health, and risk-based cleanup is not required at this AOPC. There is no indication that NAPL is present at this AOPC. The secondary remedial goal for this AOPC is elimination of impacts by achieving background concentrations.

The alternatives retained for detailed analysis are as follows:

1. No Action;

2. Alternative Excavation of PCB impacts exceeding the alternative PCB cleanup goal; and

3. Whole-AOPC excavation to approximately 5 feet bgs.

The results of the detailed analysis of alternatives for this AOPC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-14.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable as the criteria are defined in Section 5.2.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. This alternative is protective of human health.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Alternative Excavation

Implementability

This alternative is highly implementable. The size of the excavation is moderate covering an area of approximately 100 square feet to a depth of approximately 5 feet bgs. Approximately 20 cubic yards of soil would be removed.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. Although there is an incidental risk associated with any construction excavation action resulting from operation of heavy machinery and increased road traffic, given the small volume of the proposed excavation the incidental risk and impacts associated with excavation and disposal are low.

Cost

This alternative has a relatively low cost of approximately $27,000. The primary cost elements are associated with excavation and offsite disposal of approximately 20 cubic yards of soil.

Alternative 3 – Whole-AOPC Excavation

Implementability

The relative implementability of this alternative is moderate. Excavation to

approximately 5 feet bgs across the entire delineated AOPC would be more difficult to implement than No Action. The area to be excavated is approximately 700 square feet (Figure 6-3). A volume of approximately 130 cubic yards would be excavated.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. The residual concentrations additionally addressed by this Alternative vs. Alternative 2 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the incidental risk associated with any construction excavation action resulting from operation of heavy machinery and increased road traffic.

Cost

This alternative has a relatively high cost at approximately $102,000. The primary cost elements are associated with excavation and offsite disposal of approximately 130 cubic yards of soil.

Recommended Remedial Option

Alternative 1 “No Action” would be an acceptable alternative for this AOPC. There is no significant risk associated with impacts within this AOPC. However, one soil same exceeded the alternative PCB cleanup goal of 1 mg/kg. The PCB impacts are localized in extent, do not exceed RBCs, and are located above the water table. Because of the extremely low solubility of PCBs and low groundwater flow velocity in this area (less than 0.5 feet a year), these impacts are unlikely to be significantly mobile.

Alternative 2 “Alternative Excavation” would achieve the alternative PCB cleanup goal for PCBs in the AOC. Although this would not result in significantly lower risk to receptors at the Site, given the small volume of PCB impacted soil in this area, the costs wouldn’t be substantial. This Alternative costs approximately $27,000 more than Alternative 1.

Alternative 3 “Whole AOPC Excavation” would achieve background concentrations across the AOPC; however, this would not result in significantly lower risk to receptors at the Site. This Alternative is inconsistent with maximum benefit to the people of the

State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Environmental impacts from fossil fuel consumption, carbon emissions, and landfill burden related to excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs. This Alternative costs approximately $110,000 more than Alternative 2.

Based on this assessment, this alternative is not economically feasible. Given the small potential for migration of the COC impacts from this area and the relatively low concentrations of metals across the AOPC as compared with background, the incremental benefit of achieving background concentrations for these constituents would not be offset by the increased cost, physical risk, and environmental impacts of an excavation activity.

The recommended remedial alternative for this AOPC is Alternative 2 "Targeted Excavation". There is no significant risk associated with this AOPC. However, this Alternative will meet the Alternative PCB soil cleanup goal of 1.0 mg/kg. Based on this, the residual concentrations proposed to remain at this AOPC are consistent with maximum benefit to the people of the State, do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to the extremely low hydraulic gradient, groundwater velocities in the Building 120 West AOPC are estimated to be less than 0.5 feet per year. These factors, in addition to the extremely low solubility of PCBs make migration of observed impacts unlikely. Based on this, the residual concentrations proposed to remain at this AOC are consistent with maximum benefit to the people of the State, do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

6.4.14 AOPC Building 222/228

This AOPC is impacted with TPH and metals in soil exceeding site-specific background concentrations including chromium, cobalt, lead, mercury, nickel, and zinc (Figure 1-3). Soil samples collected west of former Building 228 also contained PCBs above the alternative PCB cleanup goal of 1.0 mg/kg. There is no indication that NAPL is present at this AOPC. The secondary remedial goal for this AOPC is elimination of impacts by achieving background concentrations.

The alternatives retained for detailed analysis are:

1. No Action;
2. Alternative excavation of PCB impacts exceeding the alternative PCB cleanup goal; and
3. Whole-AOPC excavation of soil that exceeds background concentrations, to approximately 5 feet bgs.

The results of the detailed analysis of alternatives for this AOPC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-15.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable with regard to the criteria as defined Section 6.2.

Overall Protection of Human Health

The overall ability of No Action to be protective of human health is moderate. No constituent exceeds RBCs in this area.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Alternative Excavation

Implementability

This alternative is highly implementable. The size of the excavation is moderate covering an area of approximately 100 square feet to a depth of approximately 5 feet bgs. Approximately 20 cubic yards of soil would be removed.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. Although there is an incidental risk associated with any construction excavation action resulting from operation of heavy machinery and increased road traffic, given the small volume of the proposed excavation the incidental risk and impacts associated with excavation and disposal are low.

Cost

This alternative has a relatively low cost of approximately $27,000. The primary cost elements are associated with excavation and offsite disposal of approximately 20 cubic yards of soil.

Alternative 3 – Whole-AOPC Excavation

Implementability

This alternative is relatively difficult to implement. The size of the excavation is moderate covering an area of approximately 12,000 square feet to a depth of approximately 5 feet bgs. Approximately 2,300 cubic yards of soil would be removed. However, the excavation cannot be performed with the buildings in place.

Overall Protection of Human Health

The overall ability of this alternative to be protective of human health is high. Soil concentrations would achieve background. The residual concentrations additionally addressed by this Alternative vs. Alternative 2 are not anticipated to unreasonably affect present and anticipated beneficial use of water or result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and

Regional Water Boards. Also, this Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental cost associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. These costs include the increased risk associated with any large construction excavation action resulting from operation of heavy machinery and increased road traffic.

Cost

This alternative has a high cost at approximately $1,185,000. The primary cost elements are associated with excavation and offsite disposal of approximately 2,300 cubic yards of soil.

Recommended Remedial Option

Alternative 1 "No Action" would be an acceptable alternative for this AOPC. There is no significant risk associated with impacts within this AOPC. The PCB and metals impacts are localized in extent, do not exceed RBCs, and are located above the water table. However, the PCB impacts in shallow soil exceed the alternative PCB remedial goal of 1.0 mg/kg. Because of the extremely low solubility of PCBs and low groundwater flow velocity in this area (less than 0.5 feet a year), these impacts are unlikely to be significantly mobile.

Alternative 2 "Alternative Excavation" would achieve the alternative PCB cleanup goal for PCBs in the AOC. Although this would not result in significantly lower risk to receptors at the Site, given the small volume of PCB impacted soil in this area, the costs wouldn't be substantial. This Alternative costs approximately $27,000 more than Alternative 1.

Alternative 3 "Whole AOPC Excavation" would achieve background concentrations across the AOPC; however, this would not result in significantly lower risk to receptors at the Site. This Alternative is inconsistent with maximum benefit to the people of the State due to the social and environmental costs associated with the implementation of the remediation as related to the relatively incremental improvement in the final Site condition. Environmental impacts from fossil fuel consumption, carbon emissions, and landfill burden related to excavation activities must be considered when evaluating the relative benefit of remedial actions to address concentrations below RBCs. This Alternative costs approximately $1,160,000 more than Alternative 2.

Based on this assessment, this alternative is not economically feasible. Given the small potential for migration of the COC impacts from this area and the relatively low

concentrations of metals across the AOPC as compared with background, the incremental benefit of achieving background concentrations for these constituents would not be offset by the increased cost, physical risk, and environmental impacts of an excavation activity.

The recommended remedial alternative for this AOPC is Alternative 2 "Alternative Excavation". There is no significant risk associated with this AOPC, however this Alternative will meet the Alternative PCB soil cleanup goal of 1.0 mg/kg. Based on this, the residual concentrations proposed to remain at this AOPC are consistent with maximum benefit to the people of the State, do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to the extremely low hydraulic gradient, groundwater velocities in the Building 222/228 Area are estimated to be less than 0.5 feet per year. The soil impacts above background concentrations are located primarily in shallow soil, above the groundwater table. Due to this, migration of the observed impacts is unlikely. Based on this, the residual concentrations proposed to remain at this AOC are consistent with maximum benefit to the people of the State, do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with major removal actions. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

6.4.15 AOPC South of Building 121

AOPC South of Building 121 (Figure 1-3) is located in the San Park area adjacent to the Site entrance from North Harbor Drive. PCBs were detected in soil in excess of the alternative PCB cleanup goal of 1 mg/kg. No sample results from this area exceed soil RBCs. Concentrations of COPCs in soil and groundwater within this AOPC are considered acceptably protective of human-health, and risk-based cleanup is not required at this AOPC. There is no indication that NAPL is present at this AOPC. The secondary remedial goal for this AOPC is elimination of impacts by achieving background concentrations.

The alternatives retained for detailed analysis are as follows:

1. No Action; and

2. Alternative excavation to approximately 5 feet bgs.

The results of the detailed analysis of alternatives for this AOPC are presented below, along with a brief description of the alternative. The results are summarized for comparison in Table 6-16.

Alternative 1 – No Action

Implementability

The No Action alternative is readily implementable as the criteria are defined in Section 6.2.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. This alternative is protective of human health.

Cost

No additional costs would be expected by implementation of this alternative.

Alternative 2 – Alternative Excavation

Implementability

The relative implementability of this alternative is difficult. Excavation to approximately 5 feet bgs across the entire delineated AOPC would be more difficult to implement than No Action. The area to be excavated is approximately 100 square feet (Figure 6-3). A volume of approximately 20 cubic yards would be excavated. However, this excavation is located in area with many sensitive subsurface utilities for the primary fiber optic communication lines for Lindbergh Field. To excavate in this area, a method such as air knifing would need to be used. However, even with this alternative excavation method there is significant risk that critical infrastructure could be damaged.

Overall Protection of Human Health

There is no estimated unacceptable risk associated with this AOPC. Although there is an incidental risk associated with any construction excavation action resulting from operation of heavy machinery and increased road traffic, given the small volume of the proposed excavation the incidental risk to human health associated with excavation and disposal are low.

Cost

This alternative has a relatively high cost at approximately $87,000 due to the modified excavation methods required for excavation in the vicinity of sensitive utilities.

Recommended Remedial Option

Alternative 1 "No Action" would be an acceptable alternative for this AOPC. There is no significant risk associated with impacts within this AOPC. The PCB impact is localized in extent, does not exceed RBCs, and is located above the water table. However, the PCB impacts in shallow soil exceed the alternative PCB remedial goal of 1.0 mg/kg.

Alternative 2 "Alternative Excavation" would achieve the alternative PCB cleanup goal for PCBs in the AOC. This would not result in significantly lower risk to receptors at the Site. Due to the sensitive infrastructure in the area, the excavation cost is significantly increased, and consequently the cost per percent mass removal for this excavation is significantly higher than the average cost of an excavation to 1 mg/kg for other parts of the Site.

The maximum concentration observed at this AOC was 1.9 mg/kg at a depth of 3 feet bgs. If a 20 cubic yard excavation is conservatively estimated to remove 22 grams of PCBs (0.32% of total site mass), the cost per percent mass removed would be over $270,000. Based on the cost analysis presented in Section 5.3, the mass removal efficiency of this excavation would be well above the economically feasible inflection point observed for the typical 1 mg/kg alternative cleanup goal.

Given this reduced remedial efficiency and the high risk of damaging critical infrastructure utilities located within the, the increase in risk to infrastructure, and cost of the excavation activity would not be offset by the incremental benefit of achieving additional reduction in concentrations for PCBs. This Alternative costs approximately $87,000 more than Alternative 1. Based on this assessment, this alternative is not economically feasible. The recommended remedial alternative for this AOPC is Alternative 1 “No Action”. There is no significant risk associated with this AOPC. The Site is located in an area designated as non-beneficial use groundwater by the Basin Plan (RWQCB, 2006). The residual concentrations are below site-specific RBCs. Achievement of the RBCs developed in this document is protective of anticipated current and future receptors on-Site, as described in the Risk Assessment (Geosyntec, 2007).

A detailed evaluation of the potential impacts to Convair Lagoon relative to California Toxics Rule (CTR) is presented in Appendix A of the Site-Wide Risk Assessment (Geosyntec, 2007). This evaluation concludes that groundwater impacts on Site are not currently impacting Convair Lagoon in excess of these standards via either direct discharge through the subsurface or potential migration through potential preferential SWCS pathways.

Due to the extremely low hydraulic gradient, groundwater velocities in the South of Building 121 AOPC are estimated to be less than 0.5 feet per year. These factors, in addition to the extremely low solubility of PCBs make migration of observed impacts unlikely. Based on this, the residual concentrations proposed to remain at this AOC are consistent with maximum benefit to the people of the State, in that further reduction of the anticipated residual constituent concentration would provide marginal benefit, while incurring potentially significant social and environmental costs associated with the alternative removal action. The proposed risk based remedial goals do not unreasonably affect present and anticipated beneficial use of water and do not result in water quality less than those prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Based on these evaluations, this alternative is protective for the current and future use of the Site, which is restricted to commercial/industrial use for tidelands properties. There is no identified short- or long-term risk or hazard associated with this AOPC. It is also highly implementable, protective of human health, and cost effective.

7.0 CONCEPTUAL REMEDIAL ACTION PLAN

The conceptual remedial action plan (RAP) for each AOC and AOPC is presented below. The conceptual RAP is based on the results of the feasibility study presented in Section 6. Descriptions of the conceptual design of the recommended alternatives are provided herein and are summarized in Table 7-1. These conceptual designs form the basis of the cost-comparisons within this report, but do not represent final engineered design recommendations.

7.1 Pilot Study / Fast Track Remedial Actions

To more fully evaluate the effectiveness of the selected remedial alternative, a pilot study is proposed for the EISB remedy in the 131/242 AOC. It is further recommended that the excavations able to be conducted in advance of building demolition proceed on a fast track in advance of the full scale implementation of the EISB remedy. These pilot study/fast track actions are described below.

7.1.1 AOC Building 131/242

The recommended alternative for this AOC is targeted excavation for VOCs exceeding RBCs in soil and EISB for VOCs in groundwater (Figure 7-1). This remedial alternative is cost effective and addresses RBC exceedances in both soil and groundwater. VOCs in soil gas are expected to decline in concentration as sources are removed in nearby soil and groundwater. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

The expected implementation of the targeted excavation with EISB alternative would consist of the following major steps:

Targeted Excavation

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil from the 20 foot by 20 foot targeted area around the soil RBC exceedance location (Figure 7-1) to approximately 7 feet bgs, or until groundwater is encountered. Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;
- Collect confirmation samples from the floor and side walls of the excavation; and

Grade, compact, confirm compaction, and demobilize all equipment and spoils.

Enhanced In-Situ Bioremediation

- Select proposed injection locations based on accessibility and technical merit;
- Acquire direct push permit and well construction permit;
- Install a series of temporary injection probes to be connected by manifolds to inject the required amount of electron donor and microbial culture in each well. The number of injection wells required will be based on a calculated ROI of 5 feet (Figure 7-1);
- Install monitor wells using a hollow stem auger drill rig;
- Monitor groundwater quality twice per year; and
- Determine if additional electron donor application is required.

7.1.2 AOC Building 156

The recommended alternative for this AOC is targeted excavations for PCBs and PCE in soil. This is a readily implementable remedial alternative that will addresses RBC exceedances in the soil. VOCs in soil gas are expected to decline in concentration as sources are removed in nearby soil and groundwater. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

Targeted Excavations

The expected implementation of the targeted excavations alternative would consist of the following major steps:

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil in two 10 foot by 10 foot areas around each RBC exceedance location (Figure 7-1) to approximately 5 feet bgs;
- Place spoils in roll-off bins for waste profiling, offsite transport and disposal;

- Collect confirmation samples from the floor and side walls of the excavation; and

- Grade, compact, confirm compaction, and demobilize all equipment and spoils.

7.1.3 AOC Building 102 Targeted Excavation Implementation

The recommended alternative for this AOC is targeted excavation for VOCs and TPH exceeding RBCs in soil and groundwater (Figure 7-1). The excavation for VOCs is recommended as fast-track source removal. This remedial alternative is cost effective and addresses RBC exceedances in both soil and groundwater.

The implementation of the targeted excavations would consist of the following major steps:

Targeted Excavation

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;

- Remove the soil from the 10 foot by 10 foot area around the VOC RBC exceedance location (Figure 7-1) to approximately 7 feet bgs, or until groundwater is encountered. Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;

- If LNAPL is observed, excavate to 1 foot below the water table, remove LNAPL from the excavation to the greatest extent practicable by dewatering with a vacuum truck;

- Collect confirmation samples from the floor and side walls of the excavation; and

- Grade, compact, confirm compaction, and demobilize all equipment and spoils.

7.1.4 AOC Building 120 South

The recommended remedial action for this AOC is excavation of the area exceeding RBCs for TPH in soil.

Targeted Excavation

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil from the approximate 920 square foot area around the potential LNAPL location (Figure 7-1) to approximately 5 feet bgs. Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;
- Collect confirmation samples from the floor and side walls of the excavation; and
- Grade, compact, confirm compaction, and demobilize all equipment and spoils.

7.1.5 AOC Building 130/166 AST/120/121 Targeted Excavation

The recommended alternative for this AOC is targeted excavations for VOCs and PCBs exceeding RBCs in soil and EISB for VOCs in groundwater (Figure 7-1). This remedial alternative is cost effective and addresses RBC exceedances in both soil and groundwater. The expected implementation of the targeted excavations for PCBs and EISB for VOCs in groundwater for this AOC is described in Section 7.2. The implementation of the targeted excavation for VOCs would consist of the following major steps:

Targeted Excavation

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil from the 10 foot by 10 foot pothole area around the RBC exceedance location (Figure 7-1) to approximately 7 feet bgs, or until groundwater is encountered;
- Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;
- Collect confirmation samples from the floor and side walls of the excavation; and
- Grade, compact, confirm compaction, and demobilize all equipment and spoils.

7.1.6 AOC Building 180 Targeted Excavation

The recommended alternative for this AOC is targeted excavation for TPH exceeding RBCs in soil and EISB for VOCs in groundwater (Figure 7-1). This remedial alternative is cost effective and addresses RBC exceedances in both soil and groundwater. The expected implementation of the EISB for VOCs in groundwater for this AOC is described in Section 7.4. The implementation of the targeted excavation alternative would consist of the following major steps:

Targeted Excavation

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil from the 10 foot by 10 foot targeted area around the RBC exceedance location (Figure 7-1) to approximately 5 feet bgs, or until groundwater is encountered;
- Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;
- Collect confirmation samples from the floor and side walls of the excavation; and
- Grade, compact, confirm compaction, and demobilize all equipment and spoils.

7.2 Full Scale Remedial Actions

Following the implementation of the Building 131/242 Pilot study and pending available access to perform the following remedial actions following Site demolition, the following remedial actions are proposed.

7.2.1 AOC Building 130/166 AST/120/121 EISB Implementation

The recommended alternative for this AOC is targeted excavations for VOCs and PCBs exceeding RBCs in soil and EISB for VOCs in groundwater (Figure 7-1). The VOC excavation is recommended as a fast track source removal with full scale EISB implementation following the pilot study in the 131/242 area, and the remaining PCB targeted excavations following removal of the 30-inch east SWCS during Site demolition. This remedial alternative is cost effective and addresses RBC exceedances in both soil and groundwater. VOCs in soil gas are expected to decline in concentration

as sources are removed in nearby soil and groundwater. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

The expected implementation of the targeted excavation for VOCs in this AOC is described in Section 7.1.6. The expected implementation of the EISB and remaining targeted excavations would consist of the following major steps:

Enhanced In-Situ Bioremediation

- Select proposed injection locations based on accessibility and technical merit;
- Acquire direct push permit and well construction permit;
- Install a series of temporary injection probes to be connected by a manifold to inject the required amount of electron donor and microbial culture in each well. The number of injection wells required will be based on an assumed ROI of 5 feet (Figure 7-1);
- Install monitor wells using a hollow stem auger drill rig;
- Monitor groundwater quality twice per year;
- Determine if additional electron donor application is required.

Targeted Excavations

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil from the areas around the RBC or alternative PCB cleanup goal exceedance locations (Figure 7-1);
- Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;
- Collect confirmation samples from the floor and side walls of the excavation; and

- Grade, compact, confirm compaction, and demobilize all equipment and spoils.

7.2.2 AOC Building 158

The recommended alternative for this AOC is targeted excavation for potential LNAPL and CrVI in soil, and ISR by injection of EVO for CrVI in groundwater. However, if the post-demolition investigation of the extent of CrVI impacts significantly increases the estimated volume of impacted soils, then the recommended alternative may become targeted excavation for potential LNAPL in soil, in-situ mixing of $FeSO_4$ for CrVI in soil, and ISR by injection of EVO for CrVI in groundwater. The targeted excavations will remove soil with potential LNAPL and CrVI and are a cost-effective way of addressing the RBC exceedances associated with Building 158 when coupled with ISR of the residual CrVI in groundwater. VOCs in nearby soil gas are expected to decline in concentration as sources are removed in nearby soil and groundwater. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

The expected implementation of this alternative would consist of the following major steps:

Targeted Excavation Alternative

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil from the 10 foot by 10 foot area around the potential LNAPL location (Figure 7-1) to approximately 7 feet bgs, or until groundwater is encountered. Remove the 40 by 80 foot area around the CrVI soil exceedances to approximately 4 feet BGS. Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;
- Collect confirmation samples from the floor and side walls of the excavation; and
- Grade, compact, confirm compaction, and demobilize all equipment and spoils.

In-Situ Mixing Alternative

- Mobilize a drill rig and mixing auger;

- Mix $FeSO_4$ solution directly into vadose zone treatment area;
- Collect confirmation samples from within treatment zone; and
- Stabilize, grade, and demobilize all equipment.

In-Situ Reduction

- Select proposed injection locations based on accessibility and technical merit;
- Acquire direct push permit and well construction permit;
- Mobilize the direct-push rig and support vehicles and personnel to the Site;
- Initiate injection of the EVO solution across the delineated AOC;
- After two months collect confirmation groundwater samples for CrVI analysis by direct push technique; and
- Inject additional EVO based on results of confirmation sampling, if required.

7.2.3 AOC Former Maintenance Yard

The recommended alternative for this AOC is EISB for VOCs in groundwater (Figure 7-1). This remedial alternative is cost effective and addresses RBC exceedances in groundwater. VOCs in soil gas are expected to decline in concentration as sources are removed in nearby soil and groundwater. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

The expected implementation of the EISB alternative would consist of the following major steps:

Enhanced In-Situ Bioremediation

- Select proposed injection locations based on accessibility and technical merit;
- Acquire direct push permit and well construction permit;

- Install a series of temporary injection probes to be connected by manifolds to inject the required amount of electron donor and microbial culture in each well. The number of injection wells required will be based on an assumed ROI of 5 feet (Figure 7-1);

- Install monitor wells using a hollow stem auger drill rig;

- Monitor groundwater quality twice per year; and

- Determine if additional electron donor application is required.

7.2.4 AOC Building 180

The recommended alternative for this AOC is EISB with targeted excavation. This remedial alternative is cost effective and addresses RBC exceedances in soil and groundwater. The excavation is recommended as a fast track source removal with full scale EISB implementation following the pilot study in the 131/242 area. VOCs concentrations in soil gas are expected to decline as sources are removed in nearby groundwater. A post-remediation soil gas survey will be conducted to collect post-remedial soil gas concentration data. These data will be used in the post remediation risk assessment to confirm remedial actions are complete.

The expected implementation of the targeted excavation for this AOC is described in Section 7.1.7. The expected implementation of the EISB alternative would consist of the following major steps:

Enhanced In-Situ Bioremediation

- Select proposed injection locations based on accessibility and technical merit;

- Acquire direct push permit and well construction permit;

- Install a series of temporary injection probes to be connected by a manifold to inject the required amount of electron donor and microbial culture in each well. The number of injection wells required will be based on a ROI of 5 feet (Figure 7-1);

- Install monitor wells using a hollow stem auger drill rig;

- Monitor groundwater quality twice per year; and

- Determine if additional electron donor application is required.

7.2.5 AOPC Explosives Area

The recommended alternative for this AOC is alternative excavation for PCBs exceeding the alternative PCB cleanup goal in soil (Figure 7-1). The implementation of the Alternative excavation would consist of the following major steps:

Alternative Excavation

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil from the 10 foot by 10 foot area around the PCB alternate cleanup goal exceedance location (Figure 7-1) to approximately 5 feet bgs. Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;
- Collect confirmation samples from the floor and side walls of the excavation; and
- Backfill, grade, compact, confirm compaction, and demobilize all equipment and spoils.

7.2.6 AOPC Test Cell #4/Area D

The recommended alternative for this AOPC will be determined after completion of a soil gas survey and vapor risk assessment. Wells within the AOPC will continue to be monitored for LNAPL sheen.

7.2.7 AOPC Building 142

The recommended alternative for this AOPC is No Action. No soil, groundwater, or soil gas samples exceed RBCs. The cost and risk associated with additional actions would not be offset by the incremental benefit of achieving background.

7.2.8 AOPC Southeast of Building 146

The recommended alternative for this AOPC is No Action. No soil, groundwater, or soil gas samples exceed RBCs. The cost and risk associated with additional actions would not be offset by the incremental benefit of achieving background.

7.2.9 AOPC Building 120 West

The recommended alternative for this AOC is alternative excavation for PCBs exceeding the alternative PCB cleanup goal in soil (Figure 7-1). The implementation of the alternative excavation would consist of the following major steps:

Alternative Excavation

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil from the 10 foot by 10 foot area around the PCB alternate cleanup goal exceedance location (Figure 7-1) to approximately 5 feet bgs. Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;
- Collect confirmation samples from the floor and side walls of the excavation; and
- Backfill, grade, compact, confirm compaction, and demobilize all equipment and spoils.

7.2.10 AOPC Building 222/228

The recommended alternative for this AOC is alternative excavation for PCBs exceeding the alternative PCB cleanup goal in soil (Figure 7-1). The implementation of the alternative excavation would consist of the following major steps:

Alternative Excavation

- Mobilize a backhoe, loader, and roll-off bins to a pre-selected staging area;
- Remove the soil from the 10 foot by 10 foot area around the PCB alternate cleanup goal exceedance location (Figure 7-1) to approximately 5 feet bgs. Place spoils in roll-off bins for waste profiling, offsite transport, and disposal;
- Collect confirmation samples from the floor and side walls of the excavation; and
- Backfill, grade, compact, confirm compaction, and demobilize all equipment and spoils.

7.2.11 AOPC South of Building 121

The recommended alternative for this AOPC is No Action. No soil, groundwater, or soil gas samples exceed RBCs. One sample exceeded the alternative soil PCB cleanup goal. However, the substantial increased cost and risk associated with additional actions (due to the sensitive infrastructure in the area) would not be offset by the incremental benefit of achieving background.

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TABLES

Table 3-1
Calculated Background Concentrations for Metals and Cyanide in Soil and Groundwater
2701 North Harbor Drive
San Diego, California

	Soil				
	Max Background (mg/kg)	**Min Detected (mg/kg)**	**Max Detected (mg/kg)**	**No. Samples**	**% Detection Above Background**
Antimony	3.9	0.3	8.5	408	0.7%
Arsenic	23[a]	0.4	23	408	0.0%
Barium	440[a]	1	440	408	0.0%
Beryllium	b	ND	ND	408	b
Cadmium	3.6	0.06	6.8	408	0.7%
Chromium	47	1.8	2200	431	6.0%
Cobalt	23	0.5	100	408	1.5%
Copper	55	0.2	200	408	0.7%
Lead	13.4	0.6	150	408	5.9%
Mercury	0.065	0.03	0.38	409	2.7%
Molybdenum	2.3	0.1	10	408	1.0%
Nickel	14.3	0.7	170	408	3.7%
Selenium	23.7	0.3	30	408	0.5%
Silver	b	0.5	2.5	408	b
Thallium	b	2.2	2.2	408	b
Vanadium	70[a]	0.8	70	408	0.0%
Zinc	53	2	710	408	5.4%
Cyanide (total)	b	0.08	1.7	161	b
Cyanide (amenable)	b	0.08	1	159	b

	Groundwater				
	Max Background (mg/L)	**Min Detected (mg/L)**	**Max Detected (mg/L)**	**No. Samples**	**% Detection Above Background**
Antimony	b	0.03	3	121	b
Arsenic	b	ND	ND	121	b
Barium	0.49[a]	0.0099	0.49	121	0.0%
Beryllium	b	0.0003	0.01	121	b
Cadmium	b	0.0031	0.01	121	b
Chromium	0.03	0.002	250	121	1.7%
Cobalt	0.04	0.0008	0.09	121	0.8%
Copper	b	0.002	0.019	121	b
Lead	b	ND	ND	121	b
Mercury	b	ND	ND	127	b
Molybdenum	0.046	0.004	0.29	121	26.4%
Nickel	0.1	0.003	0.45	121	4.1%
Selenium	0.63	0.025	1.3	121	4.1%
Silver	b	ND	ND	121	b
Thallium	b	ND	ND	121	b
Vanadium	0.076	0.0006	0.13	121	1.7%
Zinc	0.069	0.006	1.3	121	5.0%
Cyanide (total)	b	0.005	0.01	19	b
Cyanide (amenable)	b	ND	ND	19	b

Notes:
a - Entire dataset within background
b - Insufficient detections to determine background
mg/kg - milligram per kilogram
mg/L - milligram per liter

Table 4-1
Hydropunch Results, Building 158
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	Groundwater			
		T-47 GW-11 13-Apr-06	T-48 GW-11 13-Apr-06	T-48 GW-35 13-Apr-06	T-49 GW-11 13-Apr-06
Metals					
Chromium	mg/L	0.0034	665	0.012	216
Hexavalent Chromium	mg/L	ND<0.0040	580	0.16	280
Total Petroleum Hydrocarbons					
C6-C12 GRO	mg/L	0.27 J	0.29 J	0.29 J	0.36 J
C13-C22 DRO	mg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14
C23-C32 HRO	mg/L	0.53 J	0.40 J	0.62 J	0.66 J
Total Petroleum Hydrocarbons	mg/L	0.80 J	0.70 J	0.91 J	1.0 J

Parameter	Units	Soil		
		T-47-GT 13-Apr-06	T-48-6B 13-Apr-06	T-49-5.5B 13-Apr-06
Total Petroleum Hydrocarbons				
C6-C12 GRO	mg/kg	ND<6.2	21	ND<5.9
C13-C22 DRO	mg/kg	ND<6.2	ND<6.1	ND<5.9
C23-C32 HRO	mg/kg	12 J	200	13 J
Total Petroleum Hydrocarbons	mg/kg	ND<22	220	ND<21

Notes:
GRO - Gasoline range organics
DRO - Diesel range organics
HRO - Heavy range organics
ND< - Analyte not detected above associated method detection limit (MDL)
J - Analyte was detected at a concentration below the reporting limit and above the MDL; reported value is estimated

Table 4-2
Deep Monitor Well Results, Building 131/242 Area
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	B131-MW2D 31-Mar-06	B131-MW3D 31-Mar-06
Semi-Volatile Organic Compounds (SVOCs)			
1,2,4-Trichlorobenzene	µg/L	ND<1.5	ND<1.6
1,2-Dichlorobenzene	µg/L	ND<1.0	ND<1.1
1,3-Dichlorobenzene	µg/L	ND<1.0	ND<1.1
1,4-Dichlorobenzene	µg/L	ND<1.0	ND<1.1
1,4-Dioxane	µg/L	ND<0.50	ND<0.52
2,4,5-Trichlorophenol	µg/L	ND<2.2	ND<2.3
2,4,6-Trichlorophenol	µg/L	ND<2.2	ND<2.3
2,4-Dichlorophenol	µg/L	ND<1.0	ND<1.1
2,4-Dimethylphenol	µg/L	ND<2.0	ND<2.1
2,4-Dinitrophenol	µg/L	ND<1.5	ND<1.6
2,4-Dinitrotoluene	µg/L	ND<1.0	ND<1.1
2,6-Dinitrotoluene	µg/L	ND<1.8	ND<1.9
2-Chloronaphthalene	µg/L	ND<1.0	ND<1.1
2-Chlorophenol	µg/L	ND<1.0	ND<1.1
2-Methyl-4,6-dinitrophenol	µg/L	ND<1.5	ND<1.6
2-Methylnaphthalene	µg/L	ND<1.0	ND<1.1
2-Methylphenol	µg/L	ND<1.0	ND<1.1
2-Nitroaniline	µg/L	ND<1.0	ND<1.1
2-Nitrophenol	µg/L	ND<1.0	ND<1.1
3,3'-Dichlorobenzidine	µg/L	ND<3.5	ND<3.6
3/4-Methylphenol	µg/L	ND<1.0	**8.9 J**
3-Nitroaniline	µg/L	ND<1.5	ND<1.6
4-Bromophenyl phenyl ether	µg/L	ND<2.0	ND<2.1
4-Chloro-3-methylphenol	µg/L	ND<1.0	ND<1.1
4-Chloroaniline	µg/L	ND<1.7	ND<1.8
4-Chlorophenyl phenyl ether	µg/L	ND<1.0	ND<1.1
4-Nitroaniline	µg/L	ND<1.9	ND<2.0
4-Nitrophenol	µg/L	ND<1.7	ND<1.8
Acenaphthene	µg/L	ND<1.0	ND<1.1
Acenaphthylene	µg/L	ND<1.0	ND<1.1
Aniline	µg/L	ND<3.0	ND<3.1
Anthracene	µg/L	ND<1.0	ND<1.1
Benzo(a)anthracene	µg/L	ND<1.5	ND<1.6
Benzo(a)pyrene	µg/L	ND<1.8	ND<1.9
Benzo(b)fluoranthenes	µg/L	ND<1.7	ND<1.8
Benzo(g,h,i)perylene	µg/L	ND<4.1	ND<4.2
Benzo(k)fluoranthene	µg/L	ND<1.9	ND<2.0
Benzoic Acid	µg/L	**4.7 J**	**4.4 J**
Benzyl Alcohol	µg/L	ND<1.0	ND<1.1
bis(2-Chloroethoxy) Methane	µg/L	ND<1.0	ND<1.1
bis(2-Chloroethyl) Ether	µg/L	ND<1.0	ND<1.1
bis(2-Chloroisopropyl) Ether	µg/L	ND<1.0	ND<1.1
bis(2-Ethylhexyl) Phthalate	µg/L	ND<1.0	ND<1.1

Table 4-2
Deep Monitor Well Results, Building 131/242 Area
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	B131-MW2D 31-Mar-06	B131-MW3D 31-Mar-06
SVOCs			
Butyl Benzyl Phthalate	µg/L	ND<1.6	ND<1.7
Chrysene	µg/L	ND<1.5	ND<1.6
Dibenz(a,h)anthracene	µg/L	ND<3.4	ND<3.5
Dibenzofuran	µg/L	ND<1.0	ND<1.1
Diethyl Phthalate	µg/L	ND<6.6	ND<6.8
Dimethyl Phthalate	µg/L	ND<1.0	ND<1.1
Di-n-Butyl Phthalate	µg/L	ND<2.0	ND<2.1
Di-n-Octyl Phthalate	µg/L	ND<1.3	ND<1.4
Fluoranthene	µg/L	ND<1.0	ND<1.1
Fluorene	µg/L	ND<1.0	ND<1.1
Hexachlorobenzene	µg/L	ND<1.0	ND<1.1
Hexachlorobutadiene	µg/L	ND<1.6	ND<1.7
Hexachlorocyclopentadiene	µg/L	ND<1.0	ND<1.1
Hexachloroethane	µg/L	ND<4.0	ND<4.1
Indeno(1,2,3-cd)pyrene	µg/L	ND<3.8	ND<3.9
Isophorone	µg/L	ND<1.0	ND<1.1
Naphthalene	µg/L	ND<1.0	ND<1.1
Nitrobenzene	µg/L	ND<1.0	ND<1.1
N-Nitrosodimethylamine	µg/L	ND<2.8	ND<2.9
N-Nitroso-di-n-propylamine	µg/L	ND<1.0	ND<1.1
N-Nitrosodiphenylamine	µg/L	ND<1.0	ND<1.1
Pentachlorophenol	µg/L	ND<1.4	ND<1.5
Phenanthrene	µg/L	ND<1.0	ND<1.1
Phenol	µg/L	ND<1.0	ND<1.1
Pyrene	µg/L	ND<1.0	ND<1.1
Pyridine	µg/L	ND<2.9	ND<3.0
Volatile Organic Compounds (VOCs)			
1,1,1,2-Tetrachloroethane	µg/L	ND<0.16	ND<0.16
1,1,1-Trichloroethane	µg/L	ND<0.16	ND<0.16
1,1,2,2-Tetrachloroethane	µg/L	ND<0.11	ND<0.11
1,1,2-Trichloroethane	µg/L	ND<0.15	ND<0.15
1,1,2-Trichlorotrifluoroethane	µg/L	ND<0.16	ND<0.16
1,1-Dichloroethane	µg/L	ND<0.14	ND<0.14
1,1-Dichloroethene	µg/L	ND<0.18	ND<0.18
1,1-Dichloropropene	µg/L	ND<0.14	ND<0.14
1,2,3-Trichlorobenzene	µg/L	ND<0.15	ND<0.15
1,2,3-Trichloropropane	µg/L	ND<0.17	ND<0.17
1,2,4-Trichlorobenzene	µg/L	ND<0.17	ND<0.17
1,2,4-Trimethylbenzene	µg/L	ND<0.13	ND<0.13
1,2-Dibromo-3-chloropropane	µg/L	ND<0.53	ND<0.53
1,2-Dibromoethane	µg/L	ND<0.15	ND<0.15
1,2-Dichlorobenzene	µg/L	ND<0.14	ND<0.14
1,2-Dichloroethane	µg/L	ND<0.18	ND<0.18

Table 4-2
Deep Monitor Well Results, Building 131/242 Area
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	B131-MW2D 31-Mar-06	B131-MW3D 31-Mar-06
VOCs			
1,2-Dichloropropane	µg/L	ND<0.14	ND<0.14
1,3,5-Trimethylbenzene	µg/L	ND<0.13	ND<0.13
1,3-Dichlorobenzene	µg/L	ND<0.14	ND<0.14
1,3-Dichloropropane	µg/L	ND<0.12	ND<0.12
1,4-Dichlorobenzene	µg/L	**0.14 J**	ND<0.13
2,2-Dichloropropane	µg/L	ND<0.15	ND<0.15
2-Butanone	µg/L	ND<0.44	**0.66 J**
2-Chlorotoluene	µg/L	ND<0.12	ND<0.12
2-Hexanone	µg/L	ND<0.54	ND<0.54
4-Chlorotoluene	µg/L	ND<0.16	ND<0.16
4-methyl-2-pentanone	µg/L	ND<0.40	ND<0.40
Acetone	µg/L	**3.7 J**	**3.1 J**
Benzene	µg/L	ND<0.15	ND<0.15
Bromobenzene	µg/L	ND<0.17	ND<0.17
Bromochloromethane	µg/L	ND<0.16	ND<0.16
Bromodichloromethane	µg/L	ND<0.14	ND<0.14
Bromoform	µg/L	ND<0.12	ND<0.12
Bromomethane	µg/L	ND<0.23	ND<0.23
Carbon disulfide	µg/L	**0.34 J**	ND<0.17
Carbon tetrachloride	µg/L	ND<0.18	ND<0.18
Chlorobenzene	µg/L	ND<0.15	ND<0.15
Chloroethane	µg/L	ND<0.19	ND<0.19
Chloroform	µg/L	**0.22 J**	ND<0.15
Chloromethane	µg/L	ND<0.16	ND<0.16
cis-1,2-Dichloroethene	µg/L	**10**	**1.3**
cis-1,3-Dichloropropene	µg/L	ND<0.13	ND<0.13
Dibromochloromethane	µg/L	ND<0.11	ND<0.11
Dibromomethane	µg/L	ND<0.13	ND<0.13
Dichlorodifluoromethane	µg/L	ND<0.15	ND<0.15
Ethylbenzene	µg/L	ND<0.16	ND<0.16
Hexachlorobutadiene	µg/L	ND<0.17	ND<0.17
Isopropylbenzene	µg/L	ND<0.14	ND<0.14
m-,p-Xylene	µg/L	ND<0.29	ND<0.29
Methylene chloride	µg/L	ND<0.13	ND<0.13
Naphthalene	µg/L	ND<0.090	ND<0.090
n-Butylbenzene	µg/L	ND<0.13	ND<0.13
n-Propylbenzene	µg/L	ND<0.14	ND<0.14
o-Xylene	µg/L	ND<0.11	ND<0.11
p-Isopropyltoluene	µg/L	ND<0.13	ND<0.13
sec-Butylbenzene	µg/L	ND<0.13	ND<0.13
Styrene	µg/L	ND<0.15	ND<0.15
Tert-butyl methyl ether	µg/L	ND<0.13	ND<0.13
tert-Butylbenzene	µg/L	ND<0.14	ND<0.14

Table 4-2
Deep Monitor Well Results, Building 131/242 Area
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	B131-MW2D 31-Mar-06	B131-MW3D 31-Mar-06
VOCs			
Tetrachloroethene	µg/L	**5.9**	**5.5**
Toluene	µg/L	ND<0.15	ND<0.15
trans-1,2-Dichloroethene	µg/L	**1.2**	ND<0.15
trans-1,3-Dichloropropene	µg/L	ND<0.13	ND<0.13
Trichloroethene	µg/L	**1.9**	**1.0**
Trichlorofluoromethane	µg/L	ND<0.22	ND<0.22
Vinyl acetate	µg/L	ND<0.18	ND<0.18
Vinyl chloride	µg/L	**0.35 J**	**2.2**
Xylene (total)	µg/L	ND<0.11	ND<0.11

Notes:
ND< - Analyte not detected above associated method detection limit (MDL)
Bold - Analyted detected
J - Analyte was detected at a concentration below the reporting limit and above the MDL; reported value is estimated

Table 4-3
Additional Hydropunch Results, Building 131/242 Area
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	T-44GW-11 30-Mar-06	T-45GW-11 30-Mar-06	T-45GW-37 30-Mar-06	T-46BW-11 30-Mar-06
Semi-Volatile Organic Compounds (SVOCs)					
1,2,4-Trichlorobenzene	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5
1,2-Dichlorobenzene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,3-Dichlorobenzene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,4-Dichlorobenzene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,4-Dioxane	µg/L	**0.63 J**	**150 D**	ND<0.50	**90**
2,4,5-Trichlorophenol	µg/L	ND<2.2	ND<2.2	ND<2.2	ND<2.2
2,4,6-Trichlorophenol	µg/L	ND<2.2	ND<2.2	ND<2.2	ND<2.2
2,4-Dichlorophenol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2,4-Dimethylphenol	µg/L	ND<2.0	ND<2.0	ND<2.0	ND<2.0
2,4-Dinitrophenol	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5
2,4-Dinitrotoluene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2,6-Dinitrotoluene	µg/L	ND<1.8	ND<1.8	ND<1.8	ND<1.8
2-Chloronaphthalene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2-Chlorophenol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2-Methyl-4,6-dinitrophenol	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5
2-Methylnaphthalene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2-Methylphenol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2-Nitroaniline	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2-Nitrophenol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
3,3'-Dichlorobenzidine	µg/L	ND<3.5	ND<3.5	ND<3.5	ND<3.5
3/4-Methylphenol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
3-Nitroaniline	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5
4-Bromophenyl phenyl ether	µg/L	ND<2.0	ND<2.0	ND<2.0	ND<2.0
4-Chloro-3-methylphenol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Chloroaniline	µg/L	ND<1.7	ND<1.7	ND<1.7	ND<1.7
4-Chlorophenyl phenyl ether	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Nitroaniline	µg/L	ND<1.9	ND<1.9	ND<1.9	ND<1.9
4-Nitrophenol	µg/L	ND<1.7	ND<1.7	ND<1.7	ND<1.7
Acenaphthene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Acenaphthylene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Aniline	µg/L	ND<3.0	ND<3.0	ND<3.0	ND<3.0
Anthracene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo(a)anthracene	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5
Benzo(a)pyrene	µg/L	ND<1.8	ND<1.8	ND<1.8	ND<1.8
Benzo(b)fluoranthenes	µg/L	ND<1.7	ND<1.7	ND<1.7	ND<1.7
Benzo(g,h,i)perylene	µg/L	ND<4.1	ND<4.1	ND<4.1	ND<4.1
Benzo(k)fluoranthene	µg/L	ND<1.9	ND<1.9	ND<1.9	ND<1.9
Benzoic Acid	µg/L	**3.6 J**	**3.6 J**	**5.7 J**	**3.6 J**
Benzyl Alcohol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
bis(2-Chloroethoxy) Methane	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
bis(2-Chloroethyl) Ether	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
bis(2-Chloroisopropyl) Ether	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
bis(2-Ethylhexyl) Phthalate	µg/L	**1.5 J**	**94**	**1.7 J**	ND<1.0

Table 4-3
Additional Hydropunch Results, Building 131/242 Area
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	T-44GW-11 30-Mar-06	T-45GW-11 30-Mar-06	T-45GW-37 30-Mar-06	T-46BW-11 30-Mar-06
SVOCs					
Butyl Benzyl Phthalate	µg/L	ND<1.6	ND<1.6	ND<1.6	ND<1.6
Chrysene	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5
Dibenz(a,h)anthracene	µg/L	ND<3.4	ND<3.4	ND<3.4	ND<3.4
Dibenzofuran	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Diethyl Phthalate	µg/L	ND<6.6	ND<6.6	ND<6.6	ND<6.6
Dimethyl Phthalate	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Di-n-Butyl Phthalate	µg/L	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Di-n-Octyl Phthalate	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3
Fluoranthene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Fluorene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Hexachlorobenzene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Hexachlorobutadiene	µg/L	ND<1.6	ND<1.6	ND<1.6	ND<1.6
Hexachlorocyclopentadiene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Hexachloroethane	µg/L	ND<4.0	ND<4.0	ND<4.0	ND<4.0
Indeno(1,2,3-cd)pyrene	µg/L	ND<3.8	ND<3.8	ND<3.8	ND<3.8
Isophorone	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Naphthalene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Nitrobenzene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
N-Nitrosodimethylamine	µg/L	ND<2.8	ND<2.8	ND<2.8	ND<2.8
N-Nitroso-di-n-propylamine	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
N-Nitrosodiphenylamine	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Pentachlorophenol	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4
Phenanthrene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Phenol	µg/L	ND<1.0	ND<1.0	**6.2**	ND<1.0
Pyrene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Pyridine	µg/L	ND<2.9	ND<2.9	ND<2.9	ND<2.9

Notes:
ND< - Analyte not detected above associated method detection limit (MDL)
Bold - Analyted detected
J - Analyte was detected at a concentration below the reporting limit and above the MDL; reported value is estimated

Table 4-4
Groundwater Analytical Results, Building 120
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	T-50-GW11 10/12/2006	T-50-GW26 10/12/2006	T-50-GW41 10/12/2006	T-51-GW11 10/12/2006	T-51-GW26 10/12/2006	T-51-GW38 10/12/2006	T-52-GW11 10/17/2006	T-52-GW26 10/17/2006	T-52-GW37 10/17/2006	T-53-GW11 10/17/2006	T-53-GW26 10/17/2006	T-53-GW38 10/17/2006
Semi-Volatile Organic Compounds (SVOCs)													
1,2,4-Trichlorobenzene	µg/L	ND<0.20	ND<0.20	ND<0.22	ND<0.20	ND<0.20	ND<0.29	ND<0.20	ND<0.20	ND<0.75	ND<0.20	ND<0.20	ND<0.20
1,2-Dichlorobenzene	µg/L	ND<0.17	ND<0.17	ND<0.18	ND<0.17	ND<0.17	ND<0.25	ND<0.17	ND<0.17	ND<0.63	ND<0.17	ND<0.17	ND<0.17
1,3-Dichlorobenzene	µg/L	ND<0.20	ND<0.20	ND<0.22	ND<0.20	ND<0.20	ND<0.29	ND<0.20	ND<0.20	ND<0.75	ND<0.20	ND<0.20	ND<0.20
1,4-Dichlorobenzene	µg/L	ND<0.24	ND<0.24	ND<0.26	ND<0.24	ND<0.24	ND<0.35	ND<0.24	ND<0.24	ND<0.89	ND<0.24	ND<0.24	ND<0.24
1,4-Dioxane	µg/L	**2.5**	ND<0.41	ND<0.44	**1,300**	ND<0.41	ND<0.59	**1,100**	ND<0.41	**4.7 J**	**760**	ND<0.41	**0.70 J**
2,4,5-Trichlorophenol	µg/L	ND<0.28	ND<0.28	ND<0.30	ND<0.28	ND<0.28	ND<0.40	ND<0.28	ND<0.28	ND<1.1	ND<0.28	ND<0.28	ND<0.28
2,4,6-Trichlorophenol	µg/L	ND<0.27	ND<0.27	ND<0.29	ND<0.27	ND<0.27	ND<0.39	ND<0.27	ND<0.27	ND<1.0	ND<0.27	ND<0.27	ND<0.27
2,4-Dichlorophenol	µg/L	ND<0.23	ND<0.23	ND<0.25	ND<0.23	ND<0.23	ND<0.33	ND<0.23	ND<0.23	ND<0.86	ND<0.23	ND<0.23	ND<0.23
2,4-Dimethylphenol	µg/L	ND<0.83	ND<0.83	ND<0.88	ND<0.83	ND<0.83	ND<1.2	ND<0.83	ND<0.83	ND<3.1	ND<0.83	ND<0.83	ND<0.83
2,4-Dinitrophenol	µg/L	ND<10	ND<10	ND<11	ND<10	ND<10	ND<15	ND<10	ND<10	ND<38	ND<10	ND<10	ND<10
2,4-Dinitrotoluene	µg/L	ND<0.30	ND<0.30	ND<0.32	ND<0.30	ND<0.30	ND<0.43	ND<0.30	ND<0.30	ND<1.2	ND<0.30	ND<0.30	ND<0.30
2,6-Dinitrotoluene	µg/L	ND<0.30	ND<0.30	ND<0.32	ND<0.30	ND<0.30	ND<0.43	ND<0.30	ND<0.30	ND<1.2	ND<0.30	ND<0.30	ND<0.30
2-Chloronaphthalene	µg/L	ND<0.22	ND<0.22	ND<0.24	ND<0.22	ND<0.22	ND<0.32	ND<0.22	ND<0.22	ND<0.82	ND<0.22	ND<0.22	ND<0.22
2-Chlorophenol	µg/L	ND<0.24	ND<0.24	ND<0.26	ND<0.24	ND<0.24	ND<0.35	ND<0.24	ND<0.24	ND<0.89	ND<0.24	ND<0.24	ND<0.24
2-Methylnaphthalene	µg/L	ND<0.18	ND<0.18	ND<0.19	ND<0.18	ND<0.18	ND<0.26	ND<0.18	ND<0.18	ND<0.67	ND<0.18	ND<0.18	ND<0.18
2-Methylphenol	µg/L	ND<0.32	ND<0.32	ND<0.34	ND<0.32	ND<0.32	ND<0.46	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<0.32
2-Nitroaniline	µg/L	ND<0.27	ND<0.27	ND<0.29	ND<0.27	ND<0.27	ND<0.39	ND<0.27	ND<0.27	ND<1.0	ND<0.27	ND<0.27	ND<0.27
2-Nitrophenol	µg/L	ND<0.26	ND<0.26	ND<0.28	ND<0.26	ND<0.26	ND<0.38	ND<0.26	ND<0.26	ND<0.97	ND<0.26	ND<0.26	ND<0.26
3,3'-Dichlorobenzidine	µg/L	ND<0.84	ND<0.84	ND<0.89	ND<0.84	ND<0.84	ND<1.2	ND<0.84	ND<0.84	ND<3.2	ND<0.84	ND<0.84	ND<0.84
3-Nitroaniline	µg/L	ND<0.29	ND<0.29	ND<0.31	ND<0.29	ND<0.29	ND<0.42	ND<0.29	ND<0.29	ND<1.1	ND<0.29	ND<0.29	ND<0.29
4-Bromophenyl-phenylether	µg/L	ND<0.18	ND<0.18	ND<0.19	ND<0.18	ND<0.18	ND<0.26	ND<0.18	ND<0.18	ND<0.67	ND<0.18	ND<0.18	ND<0.18
4-Chloro-3-methylphenol	µg/L	ND<0.32	ND<0.32	ND<0.34	ND<0.32	ND<0.32	ND<0.46	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<0.32
4-Chloroaniline	µg/L	ND<0.36	ND<0.36	ND<0.38	ND<0.36	ND<0.36	ND<0.52	ND<0.36	ND<0.36	ND<1.4	ND<0.36	ND<0.36	ND<0.36
4-Chlorophenyl-phenylether	µg/L	ND<0.21	ND<0.21	ND<0.23	ND<0.21	ND<0.21	ND<0.30	ND<0.21	ND<0.21	ND<0.78	ND<0.21	ND<0.21	ND<0.21
4-Methylphenol	µg/L	ND<0.28	ND<0.28	ND<0.30	ND<0.28	ND<0.28	ND<0.40	ND<0.28	ND<0.28	ND<1.1	ND<0.28	ND<0.28	ND<0.28
4-Nitroaniline	µg/L	ND<0.36	ND<0.36	ND<0.38	ND<0.36	ND<0.36	ND<0.52	ND<0.36	ND<0.36	ND<1.4	ND<0.36	ND<0.36	ND<0.36
4-Nitrophenol	µg/L	ND<20	ND<20	ND<22	ND<20	ND<20	ND<29	ND<20	ND<20	ND<75	ND<20	ND<20	ND<20
4,6-Dinitro-2-methylphenol	µg/L	ND<0.20	ND<0.20	ND<0.22	ND<0.20	ND<0.20	ND<0.29	ND<0.20	ND<0.20	ND<0.75	ND<0.20	ND<0.20	ND<0.20
Acenaphthene	µg/L	ND<0.15	ND<0.15	ND<0.16	ND<0.15	ND<0.15	ND<0.22	ND<0.15	ND<0.15	ND<0.56	ND<0.15	ND<0.15	ND<0.15
Acenaphthylene	µg/L	ND<0.23	ND<0.23	ND<0.25	ND<0.23	ND<0.23	ND<0.33	ND<0.23	ND<0.23	ND<0.86	ND<0.23	ND<0.23	ND<0.23
Aniline	µg/L	ND<0.34	ND<0.34	ND<0.36	ND<0.34	ND<0.34	ND<0.49	ND<0.34	ND<0.34	ND<1.3	ND<0.34	ND<0.34	ND<0.34
Anthracene	µg/L	ND<0.21	ND<0.21	ND<0.23	ND<0.21	ND<0.21	ND<0.30	ND<0.21	ND<0.21	ND<0.78	ND<0.21	ND<0.21	ND<0.21
Benz(a)anthracene	µg/L	ND<0.21	ND<0.21	ND<0.23	ND<0.21	ND<0.21	ND<0.30	ND<0.21	ND<0.21	ND<0.78	ND<0.21	ND<0.21	ND<0.21
Benzo(a)pyrene	µg/L	ND<0.54	ND<0.54	ND<0.57	ND<0.54	ND<0.54	ND<0.78	ND<0.54	ND<0.54	ND<2.0	ND<0.54	ND<0.54	ND<0.54
Benzo(b)fluoranthene	µg/L	ND<0.42	ND<0.42	ND<0.45	ND<0.42	ND<0.42	ND<0.60	ND<0.42	ND<0.42	ND<1.6	ND<0.42	ND<0.42	ND<0.42
Benzo(g,h,i)perylene	µg/L	ND<0.74	ND<0.74	ND<0.78	ND<0.74	ND<0.74	ND<1.1	ND<0.74	ND<0.74	ND<2.8	ND<0.74	ND<0.74	ND<0.74
Benzo(k)fluoranthene	µg/L	ND<0.32	ND<0.32	ND<0.34	ND<0.32	ND<0.32	ND<0.46	**0.32 J**	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<0.32
Benzoic Acid	µg/L	ND<20	ND<20	ND<22	ND<20	ND<20	ND<29	ND<20	ND<20	ND<75	ND<20	ND<20	ND<20
Benzyl Alcohol	µg/L	ND<0.22	ND<0.22	ND<0.24	ND<0.22	**0.25 J**	ND<0.32	ND<0.22	ND<0.22	ND<0.82	ND<0.22	ND<0.22	ND<0.22
bis(2-Chloroethoxy)methane	µg/L	ND<0.32	ND<0.32	ND<0.34	ND<0.32	ND<0.32	ND<0.46	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<0.32
bis(2-chloroethyl) Ether	µg/L	ND<0.24	ND<0.24	ND<0.26	ND<0.24	ND<0.24	ND<0.35	ND<0.24	ND<0.24	ND<0.89	ND<0.24	ND<0.24	ND<0.24
bis(2-Chloroisopropyl)ether	µg/L	ND<0.24	ND<0.24	ND<0.26	ND<0.24	ND<0.24	ND<0.35	ND<0.24	ND<0.24	ND<0.89	ND<0.24	ND<0.24	ND<0.24
bis(2-ethylhexyl) Phthalate	µg/L	**0.94 J**	ND<0.30	**48**	**3.0 J**	**1.2 J**	**4.6 J**	ND<0.30	**7.0**	**210**	**1.3 J**	**0.49 J**	**0.54 J**
Butyl Benzyl Phthalate	µg/L	ND<0.48	ND<0.48	ND<0.51	ND<0.48	ND<0.48	ND<0.69	ND<0.48	ND<0.48	ND<1.8	ND<0.48	ND<0.48	ND<0.48
Chrysene	µg/L	ND<0.22	ND<0.22	ND<0.24	ND<0.22	ND<0.22	ND<0.32	ND<0.22	ND<0.22	ND<0.82	ND<0.22	ND<0.22	ND<0.22

Table 4-4
Groundwater Analytical Results, Building 120
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	T-50-GW11 10/12/2006	T-50-GW26 10/12/2006	T-50-GW41 10/12/2006	T-51-GW11 10/12/2006	T-51-GW26 10/12/2006	T-51-GW38 10/12/2006	T-52-GW11 10/17/2006	T-52-GW26 10/17/2006	T-52-GW37 10/17/2006	T-53-GW11 10/17/2006	T-53-GW26 10/17/2006	T-53-GW38 10/17/2006
SVOCs													
Di-n-butyl Phthalate	µg/L	**0.28 J**	**0.26 J**	**0.88 J**	ND<0.25	**0.26 J**	ND<0.36	**0.26 J**	**0.28 J**	ND<0.93	ND<0.25	ND<0.25	**0.70 J**
Di-n-octyl Phthalate	µg/L	ND<0.33	ND<0.33	ND<0.35	ND<0.33	ND<0.33	ND<0.48	ND<0.33	ND<0.33	ND<1.3	ND<0.33	ND<0.33	ND<0.33
Dibenz(a,h)anthracene	µg/L	ND<0.62	ND<0.62	ND<0.66	ND<0.62	ND<0.62	ND<0.89	ND<0.62	ND<0.62	ND<2.3	ND<0.62	ND<0.62	ND<0.62
Dibenzofuran	µg/L	ND<0.22	ND<0.22	ND<0.24	ND<0.22	ND<0.22	ND<0.32	ND<0.22	ND<0.22	ND<0.82	ND<0.22	ND<0.22	ND<0.22
Diethyl Phthalate	µg/L	ND<0.28	ND<0.28	ND<0.30	ND<0.28	ND<0.28	**2.9 J**	**0.43 J**	**1.8 J**	**2.3 J**	**0.36 J**	**0.42 J**	**0.52 J**
Dimethyl Phthalate	µg/L	ND<0.26	ND<0.26	ND<0.28	ND<0.26	ND<0.26	ND<0.38	ND<0.26	ND<0.26	ND<0.97	ND<0.26	ND<0.26	ND<0.26
Fluoranthene	µg/L	ND<0.21	ND<0.21	ND<0.23	ND<0.21	ND<0.21	ND<0.30	ND<0.21	ND<0.21	ND<0.78	ND<0.21	ND<0.21	ND<0.21
Fluorene	µg/L	ND<0.22	ND<0.22	ND<0.24	ND<0.22	ND<0.22	ND<0.32	ND<0.22	ND<0.22	ND<0.82	ND<0.22	ND<0.22	ND<0.22
Hexachlorobenzene	µg/L	ND<0.21	ND<0.21	ND<0.23	ND<0.21	ND<0.21	ND<0.30	ND<0.21	ND<0.21	ND<0.78	ND<0.21	ND<0.21	ND<0.21
Hexachlorobutadiene	µg/L	ND<0.22	ND<0.22	ND<0.24	ND<0.22	ND<0.22	ND<0.32	ND<0.22	ND<0.22	ND<0.82	ND<0.22	ND<0.22	ND<0.22
Hexachlorocyclopentadiene	µg/L	ND<1.8	ND<1.8	ND<1.9	ND<1.8	ND<1.8	ND<2.6	ND<1.8	ND<1.8	ND<6.7	ND<1.8	ND<1.8	ND<1.8
Hexachloroethane	µg/L	ND<2.5	ND<2.5	ND<2.7	ND<2.5	ND<2.5	ND<3.6	ND<2.5	ND<2.5	ND<9.3	ND<2.5	ND<2.5	ND<2.5
Indeno(1,2,3-cd)pyrene	µg/L	ND<0.65	ND<0.65	ND<0.69	ND<0.65	ND<0.65	ND<0.93	ND<0.65	ND<0.65	ND<2.5	ND<0.65	ND<0.65	ND<0.65
Isophorone	µg/L	ND<0.30	ND<0.30	ND<0.32	ND<0.30	ND<0.30	ND<0.43	ND<0.30	ND<0.30	ND<1.2	ND<0.30	ND<0.30	ND<0.30
N-Nitrosodimethylamine	µg/L	ND<0.48	ND<0.48	ND<0.51	ND<0.48	ND<0.48	ND<0.69	ND<0.48	ND<0.48	ND<1.8	ND<0.48	ND<0.48	ND<0.48
N-Nitrosodi-n-propylamine	µg/L	ND<0.28	ND<0.28	ND<0.30	ND<0.28	ND<0.28	ND<0.40	ND<0.28	ND<0.28	ND<1.1	ND<0.28	ND<0.28	ND<0.28
N-Nitrosodiphenylamine	µg/L	ND<0.23	ND<0.23	ND<0.25	ND<0.23	ND<0.23	ND<0.33	ND<0.23	ND<0.23	ND<0.86	ND<0.23	ND<0.23	ND<0.23
Naphthalene	µg/L	ND<0.21	ND<0.21	ND<0.23	ND<0.21	ND<0.21	ND<0.30	ND<0.21	ND<0.21	ND<0.78	ND<0.21	ND<0.21	ND<0.21
Nitrobenzene	µg/L	ND<0.26	ND<0.26	ND<0.28	ND<0.26	ND<0.26	ND<0.38	ND<0.26	ND<0.26	ND<0.97	ND<0.26	ND<0.26	ND<0.26
Pentachlorophenol	µg/L	ND<0.63	ND<0.63	ND<0.67	ND<0.63	ND<0.63	ND<0.90	ND<0.63	ND<0.63	ND<2.4	ND<0.63	ND<0.63	ND<0.63
Phenanthrene	µg/L	ND<0.22	ND<0.22	ND<0.24	ND<0.22	ND<0.22	ND<0.32	ND<0.22	ND<0.22	ND<0.82	ND<0.22	ND<0.22	ND<0.22
Phenol	µg/L	ND<0.11	ND<0.11	ND<0.12	ND<0.11	ND<0.11	ND<0.16	ND<0.11	ND<0.11	ND<0.41	ND<0.11	ND<0.11	ND<0.11
Pyrene	µg/L	ND<0.33	ND<0.33	ND<0.35	ND<0.33	ND<0.33	ND<0.48	ND<0.33	ND<0.33	ND<1.3	ND<0.33	ND<0.33	ND<0.33
Pyridine	µg/L	ND<0.33	ND<0.33	ND<0.35	ND<0.33	ND<0.33	ND<0.48	ND<0.33	ND<0.33	ND<1.3	ND<0.33	ND<0.33	ND<0.33
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	µg/L	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<1.9	ND<0.19	ND<0.19	ND<1.9	ND<0.19	ND<0.19
1,1,1-Trichloroethane (TCA)	µg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<1.6	ND<0.16	ND<0.16	**13**	ND<0.16	ND<0.16
1,1,2,2-Tetrachloroethane	µg/L	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<2.0	ND<0.20	ND<0.20	ND<2.0	ND<0.20	ND<0.20
1,1,2-Trichloroethane	µg/L	ND<0.22	ND<0.22	ND<0.22	**1.4**	ND<0.22	ND<0.22	ND<1.5	ND<0.15	ND<0.15	**6.9**	ND<0.15	ND<0.15
1,1,2-Trichlorotrifluoroethane	µg/L	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<1.5	ND<0.15	ND<0.15	ND<1.5	ND<0.15	ND<0.15
1,1-Dichloroethane (1,1-DCA)	µg/L	ND<0.12	ND<0.12	ND<0.12	**25**	ND<0.12	ND<0.12	**20**	ND<0.11	ND<0.11	**55**	ND<0.11	ND<0.11
1,1-Dichloroethene (1,1-DCE)	µg/L	**17**	ND<0.19	ND<0.19	**330**	ND<0.19	**0.26 J**	**250**	ND<0.15	ND<0.15	**110**	ND<0.15	ND<0.15
1,1-Dichloropropene	µg/L	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<1.4	ND<0.14	ND<0.14	ND<1.4	ND<0.14	ND<0.14
1,2,3-Trichlorobenzene	µg/L	ND<0.37	ND<0.37	ND<0.37	ND<0.37	ND<0.37	ND<0.37	ND<1.5	ND<0.15	ND<0.15	ND<1.5	ND<0.15	ND<0.15
1,2,3-Trichloropropane	µg/L	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<2.0	ND<0.20	ND<0.20	ND<2.0	ND<0.20	ND<0.20
1,2,4-Trichlorobenzene	µg/L	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<1.1	ND<0.11	ND<0.11	ND<1.1	ND<0.11	ND<0.11
1,2,4-Trimethylbenzene	µg/L	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.80	ND<0.080	ND<0.080	ND<0.80	ND<0.080	ND<0.080
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND<0.81	ND<0.81	ND<0.81	ND<0.81	ND<0.81	ND<0.81	ND<9.5	ND<0.95	ND<0.95	ND<9.5	ND<0.95	ND<0.95
1,2-Dibromoethane (EDB)	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<1.9	ND<0.19	ND<0.19	ND<1.9	ND<0.19	ND<0.19
1,2-Dichlorobenzene	µg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<1.2	ND<0.12	ND<0.12	ND<1.2	ND<0.12	ND<0.12
1,2-Dichloroethane (EDC)	µg/L	ND<0.18	ND<0.18	ND<0.18	**7.0**	ND<0.18	ND<0.18	**3.7 J**	ND<0.10	ND<0.10	**3.2 J**	ND<0.10	ND<0.10
1,2-Dichloropropane	µg/L	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<1.6	ND<0.16	ND<0.16	ND<1.6	ND<0.16	ND<0.16
1,3,5-Trimethylbenzene	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.90	ND<0.090	ND<0.090	ND<0.90	ND<0.090	ND<0.090
1,3-Dichlorobenzene	µg/L	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<1.5	ND<0.15	ND<0.15	ND<1.5	ND<0.15	ND<0.15
1,3-Dichloropropane	µg/L	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<1.1	ND<0.11	ND<0.11	ND<1.1	ND<0.11	ND<0.11

Table 4-4
Groundwater Analytical Results, Building 120
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	T-50-GW11 10/12/2006	T-50-GW26 10/12/2006	T-50-GW41 10/12/2006	T-51-GW11 10/12/2006	T-51-GW26 10/12/2006	T-51-GW38 10/12/2006	T-52-GW11 10/17/2006	T-52-GW26 10/17/2006	T-52-GW37 10/17/2006	T-53-GW11 10/17/2006	T-53-GW26 10/17/2006	T-53-GW38 10/17/2006
VOCs													
1,4-Dichlorobenzene	µg/L	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<1.4	ND<0.14	ND<0.14	ND<1.4	ND<0.14	ND<0.14
2,2-Dichloropropane	µg/L	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<1.6	ND<0.16	ND<0.16	ND<1.6	ND<0.16	ND<0.16
2-Butanone (MEK)	µg/L	ND<0.90	ND<0.90	**2.5 J**	ND<0.90	**1.1 J**	**2.4 J**	ND<6.6	ND<0.66	**4.8 J**	ND<6.6	ND<0.66	**2.0 J**
2-Chlorotoluene	µg/L	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<1.1	ND<0.11	ND<0.11	ND<1.1	ND<0.11	ND<0.11
2-Hexanone	µg/L	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<0.58	ND<4.9	ND<0.49	ND<0.49	ND<4.9	ND<0.49	ND<0.49
4-Chlorotoluene	µg/L	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<1.4	ND<0.14	ND<0.14	ND<1.4	ND<0.14	ND<0.14
4-Isopropyltoluene	µg/L	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.60	ND<0.060	ND<0.060	ND<0.60	ND<0.060	ND<0.060
4-Methyl-2-pentanone (MIBK)	µg/L	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<0.85	ND<5.6	ND<0.56	ND<0.56	ND<5.6	ND<0.56	ND<0.56
Acetone	µg/L	ND<1.0	ND<1.0	**6.7 J**	ND<1.0	ND<1.0	**6.6 J**	ND<9.1	ND<0.91	**31**	ND<9.1	**1.8 J**	**6.0 J**
Benzene	µg/L	**0.52**	ND<0.12	ND<0.12	**0.62**	ND<0.12	ND<0.12	ND<1.3	ND<0.13	ND<0.13	ND<1.3	ND<0.13	ND<0.13
Bromobenzene	µg/L	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<1.3	ND<0.13	ND<0.13	ND<1.3	ND<0.13	ND<0.13
Bromochloromethane	µg/L	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<1.7	ND<0.17	ND<0.17	ND<1.7	ND<0.17	ND<0.17
Bromodichloromethane	µg/L	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<1.4	ND<0.14	ND<0.14	ND<1.4	ND<0.14	ND<0.14
Bromoform	µg/L	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<1.8	ND<0.18	ND<0.18	ND<1.8	ND<0.18	ND<0.18
Bromomethane	µg/L	ND<0.27	ND<0.27	ND<0.27	ND<0.27	ND<0.27	ND<0.27	ND<0.90	ND<0.090	ND<0.090	ND<0.90	ND<0.090	ND<0.090
Carbon disulfide	µg/L	**0.41 J**	ND<0.11	**0.48 J**	**0.49 J**	ND<0.11	**0.76 J**	**1.7 J**	**0.16 J**	**1.7 J**	ND<1.4	**0.25 J**	**1.0 J**
Carbon tetrachloride	µg/L	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<1.3	ND<0.13	ND<0.13	ND<1.3	ND<0.13	ND<0.13
Chlorobenzene	µg/L	**0.91**	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<1.2	ND<0.12	ND<0.12	ND<1.2	ND<0.12	ND<0.12
Chloroform	µg/L	**0.29 J**	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	**1.9 J**	ND<0.13	ND<0.13	**6.4**	ND<0.13	ND<0.13
Chloromethane	µg/L	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<2.4	ND<0.24	**0.26 J**	ND<2.4	ND<0.24	ND<0.24
Chloroethane	µg/L	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<1.8	ND<0.18	ND<0.18	ND<1.8	ND<0.18	ND<0.18
cis-1,2-Dichloroethene	µg/L	**9,100**	**3.1**	**14**	**4,700**	**3.5**	**11**	**1,100**	**23**	**4.1**	**180**	**29**	**0.48 J**
cis-1,3-Dichloropropene	µg/L	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<1.4	ND<0.14	ND<0.14	ND<1.4	ND<0.14	ND<0.14
Dibromochloromethane	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<1.2	ND<0.12	ND<0.12	ND<1.2	ND<0.12	ND<0.12
Dibromomethane	µg/L	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<1.5	ND<0.15	ND<0.15	ND<1.5	ND<0.15	ND<0.15
Dichlorodifluoromethane (CFC 12)	µg/L	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<1.5	ND<0.15	ND<0.15	ND<1.5	ND<0.15	ND<0.15
Dichloromethane (Methylene Choride)	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	**0.19 J**	ND<0.15	ND<1.9	ND<0.19	ND<0.19	ND<1.9	ND<0.19	ND<0.19
Ethylbenzene	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<1.1	ND<0.11	ND<0.11	ND<1.1	ND<0.11	ND<0.11
Hexachlorobutadiene	µg/L	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<2.6	ND<0.26	ND<0.26	ND<2.6	ND<0.26	ND<0.26
Isopropylbenzene	µg/L	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.90	ND<0.090	ND<0.090	ND<0.90	ND<0.090	ND<0.090
m-,p-Xylene	µg/L	ND<0.32	ND<0.32	ND<0.32	ND<0.32	ND<0.32	ND<0.32	-	-	-	-	-	-
Methyl tert-Butyl Ether	µg/L	**0.19 J**	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<1.1	ND<0.11	ND<0.11	ND<1.1	ND<0.11	ND<0.11
Naphthalene	µg/L	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<0.29	ND<1.0	ND<0.10	ND<0.10	ND<1.0	ND<0.10	ND<0.10
n-Butylbenzene	µg/L	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<0.33	ND<1.0	ND<0.10	ND<0.10	ND<1.0	ND<0.10	ND<0.10
n-Propylbenzene	µg/L	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.90	ND<0.090	ND<0.090	ND<0.90	ND<0.090	ND<0.090
o-Xylene	µg/L	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	-	-	-	-	-	-
sec-Butylbenzene	µg/L	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.90	ND<0.090	ND<0.090	ND<0.90	ND<0.090	ND<0.090
Styrene	µg/L	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.70	ND<0.070	ND<0.070	ND<0.70	ND<0.070	ND<0.070
tert-Butylbenzene	µg/L	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.80	ND<0.080	ND<0.080	ND<0.80	ND<0.080	ND<0.080
Tetrachloroethene	µg/L	**22,000**	**8.7**	**13**	**3,100**	**0.80**	**1.9**	**3,200**	**0.21 J**	**0.54**	**3,600**	**0.76**	**0.63**
Toluene	µg/L	**0.35 J**	ND<0.14	ND<0.14	**0.16 J**	ND<0.14	ND<0.14	ND<1.3	ND<0.13	ND<0.13	ND<1.3	ND<0.13	ND<0.13
trans-1,2-Dichloroethene	µg/L	**140**	ND<0.16	ND<0.16	**79**	ND<0.16	ND<0.16	**25**	**2.2**	ND<0.16	**4.8 J**	ND<0.16	ND<0.16
trans-1,3-Dichloropropene	µg/L	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.90	ND<0.090	ND<0.090	ND<0.90	ND<0.090	ND<0.090
Trichloroethene	µg/L	**3,600**	**1.3**	**3.4**	**2,400**	**0.59**	**1.8**	**1,600**	**0.25 J**	**0.73**	**4,800**	**0.86**	**1.2**
Trichlorofluoromethane	µg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<1.8	ND<0.18	ND<0.18	ND<1.8	ND<0.18	ND<0.18

Table 4-4
Groundwater Analytical Results, Building 120
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Parameter	Units	T-50-GW11 10/12/2006	T-50-GW26 10/12/2006	T-50-GW41 10/12/2006	T-51-GW11 10/12/2006	T-51-GW26 10/12/2006	T-51-GW38 10/12/2006	T-52-GW11 10/17/2006	T-52-GW26 10/17/2006	T-52-GW37 10/17/2006	T-53-GW11 10/17/2006	T-53-GW26 10/17/2006	T-53-GW38 10/17/2006
VOCs													
Vinyl acetate	µg/L	ND<0.84	ND<0.84	ND<0.84	ND<0.84	ND<0.84	ND<0.84	ND<2.4	ND<0.24	ND<0.24	ND<2.4	ND<0.24	ND<0.24
Vinyl chloride	µg/L	**200**	ND<0.22	**0.44 J**	**4.7**	**0.27 J**	ND<0.22	**2.7 J**	**0.82**	ND<0.16	ND<1.6	**1.4**	ND<0.16
Xylene (total)	µg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<1.0	ND<0.10	ND<0.10	ND<1.0	ND<0.10	ND<0.10
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics (C6-C12)	mg/L	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**0.61 J**	**1.0**	ND<0.50	**0.53 J**	ND<0.50
Diesel Range Organics (C13-C22)	mg/L	ND<0.44	ND<0.44	**0.50 J**	ND<0.44	**0.46 J**	**1.8**	ND<0.44	ND<0.50	ND<0.50	**0.51 J**	ND<0.50	ND<0.50
Heavy Range Organics (C24-C36)	mg/L	ND<0.50	ND<0.50	**0.57 J**	ND<0.50	**0.72 J**	**5.5**	ND<0.50	ND<0.44	**1.1**	**0.86 J**	ND<0.44	ND<0.44
C7 - C36 Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Gases													
Ethane	µg/L	-	-	-	-	-	-	-	-		-	-	
Ethene	µg/L	-	-	-	-	-	-	-	-		-	-	
Methane	µg/L	-	-	-	-	-	-	-	-		-	-	

Notes:
ND< - Analyte not detected above associated method detection limit (MDL)
Bold - Analyted detected
- Not analyzed
J - Analyte was detected at a concentration below the reporting limit and above the MDL; reported valueis estimated

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Table 4-4
Groundwater Analytical Results, Building 120
2701 North Harbor Drive, San Diego, California

Parameter	Units	B120-MW1 8/21/2007	B120-MW2 8/21/2007	B120-MW3 8/22/2007	B120-MW4 8/22/2007	B120-MW5 8/22/2007	B120-MW6 8/21/2007	QCEB-1593 10/12/2006	QCEB 10/17/2006	QCEB 8/21/2007
Semi-Volatile Organic Compounds (SVOCs)										
1,2,4-Trichlorobenzene	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	-	-	-
1,2-Dichlorobenzene	µg/L	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	-	-	-
1,3-Dichlorobenzene	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
1,4-Dichlorobenzene	µg/L	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	-	-	-
1,4-Dioxane	µg/L	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	ND<0.97	ND<0.97	ND<0.97	ND<0.97	ND<0.97	ND<0.97	-	-	-
2,4,6-Trichlorophenol	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
2,4-Dichlorophenol	µg/L	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	-	-	-
2,4-Dimethylphenol	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
2,4-Dinitrophenol	µg/L	ND<2.6	ND<2.6	ND<2.6	ND<2.6	ND<2.6	ND<2.6	-	-	-
2,4-Dinitrotoluene	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-	-	-
2,6-Dinitrotoluene	µg/L	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	-	-	-
2-Chloronaphthalene	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	-	-	-
2-Chlorophenol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-	-	-
2-Methylnaphthalene	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
2-Methylphenol	µg/L	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	-	-	-
2-Nitroaniline	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-	-	-
2-Nitrophenol	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
3,3'-Dichlorobenzidine	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	-	-	-
3-Nitroaniline	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
4-Bromophenyl-phenylether	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
4-Chloro-3-methylphenol	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
4-Chloroaniline	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	-	-	-
4-Chlorophenyl-phenylether	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
4-Methylphenol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-	-	-
4-Nitroaniline	µg/L	ND<2.4	ND<2.4	ND<2.4	ND<2.4	ND<2.4	ND<2.4	-	-	-
4-Nitrophenol	µg/L	ND<0.86	ND<0.86	ND<0.86	ND<0.86	ND<0.86	ND<0.86	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	ND<3.4	-	-	-
Acenaphthene	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	-	-	-
Acenaphthylene	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	-	-	-
Aniline	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
Anthracene	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	-	-	-
Benz(a)anthracene	µg/L	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	-	-	-
Benzo(a)pyrene	µg/L	ND<0.88	ND<0.88	ND<0.88	ND<0.88	ND<0.88	ND<0.88	-	-	-
Benzo(b)fluoranthene	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
Benzo(g,h,i)perylene	µg/L	ND<0.71	ND<0.71	ND<0.71	ND<0.71	ND<0.71	ND<0.71	-	-	-
Benzo(k)fluoranthene	µg/L	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	-	-	-
Benzoic Acid	µg/L	ND<0.43	ND<0.43	ND<0.43	ND<0.43	ND<0.43	ND<0.43	-	-	-
Benzyl Alcohol	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-	-	-
bis(2-Chloroethoxy)methane	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
bis(2-chloroethyl) Ether	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-	-	-
bis(2-Chloroisopropyl)ether	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	-	-	-
bis(2-ethylhexyl) Phthalate	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-	-	-
Butyl Benzyl Phthalate	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-	-	-
Chrysene	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	-	-	-

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Table 4-4
Groundwater Analytical Results, Building 120
2701 North Harbor Drive, San Diego, California

Parameter	Units	B120-MW1 8/21/2007	B120-MW2 8/21/2007	B120-MW3 8/22/2007	B120-MW4 8/22/2007	B120-MW5 8/22/2007	B120-MW6 8/21/2007	QCEB-1593 10/12/2006	QCEB 10/17/2006	QCEB 8/21/2007
SVOCs										
Di-n-butyl Phthalate	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	-	-	-
Di-n-octyl Phthalate	µg/L	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	-	-	-
Dibenz(a,h)anthracene	µg/L	ND<0.82	ND<0.82	ND<0.82	ND<0.82	ND<0.82	ND<0.82	-	-	-
Dibenzofuran	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	-	-	-
Diethyl Phthalate	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	-	-	-
Dimethyl Phthalate	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	-	-	-
Fluoranthene	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	-	-	-
Fluorene	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	-	-	-
Hexachlorobenzene	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
Hexachlorobutadiene	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
Hexachlorocyclopentadiene	µg/L	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44	ND<0.44	-	-	-
Hexachloroethane	µg/L	ND<0.98	ND<0.98	ND<0.98	ND<0.98	ND<0.98	ND<0.98	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	ND<0.83	-	-	-
Isophorone	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
N-Nitrosodimethylamine	µg/L	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	-	-	-
N-Nitrosodi-n-propylamine	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	-	-	-
N-Nitrosodiphenylamine	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	-	-	-
Naphthalene	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	-	-	-
Nitrobenzene	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	-	-	-
Pentachlorophenol	µg/L	ND<0.75	ND<0.75	ND<0.75	ND<0.75	ND<0.75	ND<0.75	-	-	-
Phenanthrene	µg/L	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	-	-	-
Phenol	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	-	-	-
Pyrene	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	-	-	-
Pyridine	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	-	-	-
Volatile Organic Compounds (VOCs)										
1,1,1,2-Tetrachloroethane	µg/L	ND<3.4	ND<0.34	ND<8.5	ND<0.34	ND<0.34	ND<8.5	ND<0.23	ND<0.19	ND<0.34
1,1,1-Trichloroethane (TCA)	µg/L	ND<2.6	ND<0.26	ND<6.5	ND<0.26	ND<0.26	ND<6.5	ND<0.14	ND<0.16	ND<0.26
1,1,2,2-Tetrachloroethane	µg/L	ND<3.0	ND<0.30	ND<7.6	ND<0.30	ND<0.30	ND<7.6	ND<0.17	ND<0.20	ND<0.30
1,1,2-Trichloroethane	µg/L	ND<4.9	ND<0.49	ND<12	ND<0.49	ND<0.49	ND<12	ND<0.22	ND<0.15	ND<0.49
1,1,2-Trichlorotrifluoroethane	µg/L	ND<6.8	ND<0.68	ND<17	ND<0.68	ND<0.68	ND<17	ND<0.44	ND<0.15	ND<0.68
1,1-Dichloroethane (1,1-DCA)	µg/L	**40**	ND<0.27	**71**	ND<0.27	ND<0.27	ND<6.8	ND<0.12	ND<0.11	ND<0.27
1,1-Dichloroethene (1,1-DCE)	µg/L	**300**	**5.3**	**370**	ND<0.29	ND<0.29	**26**	ND<0.19	ND<0.15	ND<0.29
1,1-Dichloropropene	µg/L	ND<2.4	ND<0.24	ND<5.9	ND<0.24	ND<0.24	ND<5.9	ND<0.18	ND<0.14	ND<0.24
1,2,3-Trichlorobenzene	µg/L	ND<4.3	ND<0.43	ND<11	ND<0.43	ND<0.43	ND<11	ND<0.37	ND<0.15	ND<0.43
1,2,3-Trichloropropane	µg/L	ND<14	ND<1.4	ND<34	ND<1.4	ND<1.4	ND<34	ND<0.20	ND<0.20	ND<1.4
1,2,4-Trichlorobenzene	µg/L	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<0.36	ND<0.11	ND<0.33
1,2,4-Trimethylbenzene	µg/L	ND<2.3	ND<0.23	ND<5.6	ND<0.23	ND<0.23	ND<5.6	ND<0.13	ND<0.080	ND<0.23
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND<32	ND<3.2	ND<79	ND<3.2	ND<3.2	ND<79	ND<0.81	ND<0.95	ND<3.2
1,2-Dibromoethane (EDB)	µg/L	ND<4.9	ND<0.49	ND<12	ND<0.49	ND<0.49	ND<12	ND<0.15	ND<0.19	ND<0.49
1,2-Dichlorobenzene	µg/L	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<0.14	ND<0.12	ND<0.33
1,2-Dichloroethane (EDC)	µg/L	ND<2.6	ND<0.26	ND<6.6	ND<0.26	ND<0.26	ND<6.6	ND<0.18	ND<0.10	ND<0.26
1,2-Dichloropropane	µg/L	ND<3.6	ND<0.36	ND<9.1	ND<0.36	ND<0.36	ND<9.1	ND<0.17	ND<0.16	ND<0.36
1,3,5-Trimethylbenzene	µg/L	ND<1.8	ND<0.18	ND<4.5	ND<0.18	ND<0.18	ND<4.5	ND<0.15	ND<0.090	ND<0.18
1,3-Dichlorobenzene	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<0.11	ND<0.15	ND<0.23
1,3-Dichloropropane	µg/L	ND<2.6	ND<0.26	ND<6.5	ND<0.26	ND<0.26	ND<6.5	ND<0.11	ND<0.11	ND<0.26

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Table 4-4
Groundwater Analytical Results, Building 120
2701 North Harbor Drive, San Diego, California

Parameter	Units	B120-MW1 8/21/2007	B120-MW2 8/21/2007	B120-MW3 8/22/2007	B120-MW4 8/22/2007	B120-MW5 8/22/2007	B120-MW6 8/21/2007	QCEB-1593 10/12/2006	QCEB 10/17/2006	QCEB 8/21/2007
VOCs										
1,4-Dichlorobenzene	µg/L	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<0.11	ND<0.14	ND<0.22
2,2-Dichloropropane	µg/L	ND<2.8	ND<0.28	ND<7.0	ND<0.28	ND<0.28	ND<7.0	ND<0.33	ND<0.16	ND<0.28
2-Butanone (MEK)	µg/L	ND<67	ND<6.7	ND<170	ND<6.7	ND<6.7	ND<170	**2.0 J**	**2.6 J**	**14**
2-Chlorotoluene	µg/L	ND<1.8	ND<0.18	ND<4.6	ND<0.18	ND<0.18	ND<4.6	ND<0.16	ND<0.11	ND<0.18
2-Hexanone	µg/L	ND<54	ND<5.4	ND<140	ND<5.4	ND<5.4	ND<140	ND<0.58	ND<0.49	ND<5.4
4-Chlorotoluene	µg/L	ND<2.7	ND<0.27	ND<6.8	ND<0.27	ND<0.27	ND<6.8	ND<0.16	ND<0.14	ND<0.27
4-Isopropyltoluene	µg/L	ND<3.1	ND<0.31	ND<7.8	ND<0.31	ND<0.31	ND<7.8	ND<0.10	ND<0.060	ND<0.31
4-Methyl-2-pentanone (MIBK)	µg/L	ND<37	ND<3.7	ND<93	ND<3.7	ND<3.7	ND<93	ND<0.85	ND<0.56	ND<3.7
Acetone	µg/L	ND<63	ND<6.3	ND<160	ND<6.3	ND<6.3	ND<160	ND<1.0	ND<0.91	ND<6.3
Benzene	µg/L	ND<1.4	ND<0.14	ND<3.5	ND<0.14	ND<0.14	ND<3.5	ND<0.12	ND<0.13	ND<0.14
Bromobenzene	µg/L	ND<2.7	ND<0.27	ND<6.7	ND<0.27	ND<0.27	ND<6.7	ND<0.17	ND<0.13	ND<0.27
Bromochloromethane	µg/L	ND<7.0	ND<0.70	ND<17	ND<0.70	ND<0.70	ND<17	ND<0.25	ND<0.17	ND<0.70
Bromodichloromethane	µg/L	ND<2.4	ND<0.24	ND<6.0	ND<0.24	ND<0.24	ND<6.0	ND<0.17	ND<0.14	ND<0.24
Bromoform	µg/L	ND<6.6	ND<0.66	ND<17	ND<0.66	ND<0.66	ND<17	ND<0.18	ND<0.18	ND<0.66
Bromomethane	µg/L	ND<51	ND<5.1	ND<130	ND<5.1	ND<5.1	ND<130	ND<0.27	ND<0.090	ND<5.1
Carbon disulfide	µg/L	ND<4.0	ND<0.40	ND<9.9	ND<0.40	ND<0.40	ND<9.9	ND<0.11	**0.16 J**	ND<0.40
Carbon tetrachloride	µg/L	ND<3.2	ND<0.32	ND<8.0	ND<0.32	ND<0.32	ND<8.0	ND<0.18	ND<0.13	ND<0.32
Chlorobenzene	µg/L	ND<1.4	ND<0.14	ND<3.6	ND<0.14	ND<0.14	ND<3.6	ND<0.15	ND<0.12	ND<0.14
Chloroform	µg/L	ND<2.4	ND<0.24	ND<6.0	ND<0.24	ND<0.24	ND<6.0	ND<0.14	ND<0.13	ND<0.24
Chloromethane	µg/L	ND<6.3	ND<0.63	ND<16	ND<0.63	ND<0.63	ND<16	ND<0.23	ND<0.24	ND<0.63
Chloroethane	µg/L	ND<6.9	ND<0.69	ND<17	ND<0.69	ND<0.69	ND<17	ND<0.20	ND<0.18	ND<0.69
cis-1,2-Dichloroethene	µg/L	**3300**	**1200**	**4400**	ND<0.35	**1.1**	**3700**	**0.20 J**	ND<0.14	ND<0.35
cis-1,3-Dichloropropene	µg/L	ND<3.1	ND<0.31	ND<7.6	ND<0.31	ND<0.31	ND<7.6	ND<0.13	ND<0.14	ND<0.31
Dibromochloromethane	µg/L	ND<4.1	ND<0.41	ND<10	ND<0.41	ND<0.41	ND<10	ND<0.15	ND<0.12	ND<0.41
Dibromomethane	µg/L	ND<5.7	ND<0.57	ND<14	ND<0.57	ND<0.57	ND<14	ND<0.18	ND<0.15	ND<0.57
Dichlorodifluoromethane (CFC 12)	µg/L	ND<8.9	ND<0.89	ND<22	ND<0.89	ND<0.89	ND<22	ND<0.36	ND<0.15	ND<0.89
Dichloromethane (Methylene Choride)	µg/L	ND<43	ND<4.3	ND<110	ND<4.3	ND<4.3	ND<110	ND<0.15	ND<0.19	ND<4.3
Ethylbenzene	µg/L	ND<2.3	ND<0.23	ND<5.6	ND<0.23	ND<0.23	ND<5.6	ND<0.15	ND<0.11	ND<0.23
Hexachlorobutadiene	µg/L	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<0.60	ND<0.26	-
Isopropylbenzene	µg/L	ND<2.6	ND<0.26	ND<6.4	ND<0.26	ND<0.26	ND<6.4	ND<0.17	ND<0.090	ND<0.26
m-,p-Xylene	µg/L	ND<5.4	ND<0.54	ND<13	ND<0.54	ND<0.54	ND<13	ND<0.32	-	ND<0.54
Methyl tert-Butyl Ether	µg/L	ND<2.6	ND<0.26	ND<6.5	ND<0.26	ND<0.26	ND<6.5	ND<0.17	ND<0.11	ND<0.26
Naphthalene	µg/L	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<0.29	**1.2**	ND<0.50
n-Butylbenzene	µg/L	ND<2.9	ND<0.29	ND<7.1	ND<0.29	ND<0.29	ND<7.1	ND<0.33	ND<0.10	ND<0.29
n-Propylbenzene	µg/L	ND<1.2	ND<0.12	ND<3.1	ND<0.12	ND<0.12	ND<3.1	ND<0.13	ND<0.090	ND<0.12
o-Xylene	µg/L	ND<1.7	ND<0.17	ND<4.2	ND<0.17	ND<0.17	ND<4.2	ND<0.16	-	ND<0.17
sec-Butylbenzene	µg/L	ND<3.2	ND<0.32	ND<7.9	ND<0.32	ND<0.32	ND<7.9	ND<0.17	ND<0.090	ND<0.32
Styrene	µg/L	ND<2.9	ND<0.29	ND<7.3	ND<0.29	ND<0.29	ND<7.3	ND<0.16	ND<0.070	ND<0.29
tert-Butylbenzene	µg/L	ND<3.3	ND<0.33	ND<8.2	ND<0.33	ND<0.33	ND<8.2	ND<0.18	ND<0.080	ND<0.33
Tetrachloroethene	µg/L	**3000**	**140**	**150**	ND<0.35	ND<0.35	ND<8.7	ND<0.22	ND<0.090	ND<0.35
Toluene	µg/L	ND<2.7	ND<0.27	ND<6.8	ND<0.27	ND<0.27	ND<6.8	ND<0.14	ND<0.13	ND<0.27
trans-1,2-Dichloroethene	µg/L	**92**	**24**	**130**	ND<0.38	ND<0.38	**85**	ND<0.16	ND<0.16	ND<0.38
trans-1,3-Dichloropropene	µg/L	ND<4.9	ND<0.49	ND<12	ND<0.49	ND<0.49	ND<12	ND<0.19	ND<0.090	ND<0.49
Trichloroethene	µg/L	**2300**	**340**	**73**	ND<0.37	ND<0.37	**49**	ND<0.20	ND<0.14	ND<0.37
Trichlorofluoromethane	µg/L	ND<2.1	ND<0.21	ND<5.3	ND<0.21	ND<0.21	ND<5.3	ND<0.14	ND<0.18	ND<0.21

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Table 4-4
Groundwater Analytical Results, Building 120
2701 North Harbor Drive, San Diego, California

Parameter	Units	B120-MW1 8/21/2007	B120-MW2 8/21/2007	B120-MW3 8/22/2007	B120-MW4 8/22/2007	B120-MW5 8/22/2007	B120-MW6 8/21/2007	QCEB-1593 10/12/2006	QCEB 10/17/2006	QCEB 8/21/2007
VOCs										
Vinyl acetate	µg/L	ND<37	ND<3.7	ND<93	ND<3.7	ND<3.7	ND<93	ND<0.84	ND<0.24	ND<3.7
Vinyl chloride	µg/L	ND<3.6	**1.3**	ND<8.9	ND<0.36	ND<0.36	**23**	ND<0.22	ND<0.16	ND<0.36
Xylene (total)	µg/L	ND<5.4	ND<5.4	ND<13	ND<0.54	ND<0.54	ND<13	ND<0.14	ND<0.10	ND<0.54
Total Petroleum Hydrocarbons (TPH)										
Gasoline Range Organics (C6-C12)	mg/L	**1,500**	**134**	**24**	ND	ND	**5.9**	-	-	-
Diesel Range Organics (C13-C22)	mg/L	ND	ND	ND	ND	ND	**87**	-	-	-
Heavy Range Organics (C24-C36)	mg/L	ND	ND	ND	ND	ND	**109**	-	-	-
C7 - C36 Total	mg/L	**1,500**	ND<480	ND<480	ND<480	ND<480	ND<480	-	-	-
Dissolved Gases										
Ethane	µg/L	ND<0.00547	ND<0.00547	ND<0.00547	-	-	ND<0.00547	-	-	-
Ethene	µg/L	ND<0.0933	ND<0.0933	ND<0.0933	-	-	ND<0.0933	-	-	-
Methane	µg/L	**10.9**	ND<0.00784	**21.6**	-	-	2.28	-	-	-

Notes:
ND< - Analyte not detected above associated method detection limit (MDL)
Bold - Analyted detected
- Not analyzed
J - Analyte was detected at a concentration below the reporting limit and above the MDL; reported valueis estimated

Table 4-5
Hyrdopunch Soil Analytical Results, Building 120
2701 North Harbor Drive, San Diego, California

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Parameter	Units	T-50-S6.5 10/12/2006	T-51-S7 10/12/2006	T-52-S6.5 10/17/2006	T-53-S7 10/17/2006
Volatile Organic Compounds (VOCs)					
1,1,1,2-Tetrachloroethane	µg/kg	ND<0.92	ND<0.82	ND<0.75	ND<0.75
1,1,1-Trichloroethane	µg/kg	ND<0.95	ND<0.84	ND<0.77	ND<0.77
1,1,2,2-Tetrachloroethane	µg/kg	ND<0.75	ND<0.66	ND<0.61	ND<0.61
1,1,2-Trichloroethane	µg/kg	ND<1.1	ND<0.99	ND<0.91	ND<0.91
1,1,2-Trichlorotrifluoroethane	µg/kg	ND<1.1	ND<0.94	ND<0.87	ND<0.87
1,1-Dichloroethane	µg/kg	ND<1.0	ND<0.88	ND<0.81	ND<0.81
1,1-Dichloroethene	µg/kg	ND<1.0	ND<0.92	ND<0.85	ND<0.85
1,1-Dichloropropene	µg/kg	ND<1.0	ND<0.90	ND<0.83	ND<0.83
1,2,3-Trichlorobenzene	µg/kg	ND<1.7	ND<1.5	ND<1.4	ND<1.4
1,2,3-Trichloropropane	µg/kg	ND<1.4	ND<1.2	ND<1.1	ND<1.1
1,2,4-Trichlorobenzene	µg/kg	ND<1.4	ND<1.3	ND<1.2	ND<1.2
1,2,4-Trimethylbenzene	µg/kg	ND<1.0	ND<0.91	ND<0.84	ND<0.84
1,2-Dibromo-3-chloropropane	µg/kg	ND<4.0	ND<3.5	ND<3.2	ND<3.2
1,2-Dibromoethane	µg/kg	ND<1.0	ND<0.88	ND<0.81	ND<0.81
1,2-Dichlorobenzene	µg/kg	ND<1.4	ND<1.2	ND<1.1	ND<1.1
1,2-Dichloroethane	µg/kg	ND<1.0	ND<0.91	ND<0.84	ND<0.84
1,2-Dichloroethene (total)	µg/kg	**3.6 J**	ND<0.87	-	-
1,2-Dichloropropane	µg/kg	ND<0.95	ND<0.84	ND<0.77	ND<0.77
1,3,5-Trimethylbenzene	µg/kg	ND<1.1	ND<0.94	ND<0.87	ND<0.87
1,3-Dichlorobenzene	µg/kg	ND<1.1	ND<1.0	ND<0.92	ND<0.92
1,3-Dichloropropane	µg/kg	ND<1.0	ND<0.91	ND<0.84	ND<0.84
1,4-Dichlorobenzene	µg/kg	ND<1.1	ND<1.0	ND<0.92	ND<0.92
2,2-Dichloropropane	µg/kg	ND<0.96	ND<0.85	ND<0.78	ND<0.78
2-Butanone	µg/kg	ND<6.2	ND<5.4	ND<5.0	ND<5.0
2-Chlorotoluene	µg/kg	ND<1.1	ND<0.96	ND<0.88	ND<0.88
2-Hexanone	µg/kg	ND<9.6	ND<8.4	ND<7.7	ND<7.7
4-Chlorotoluene	µg/kg	ND<1.1	ND<0.94	ND<0.87	ND<0.87
4-methyl-2-pentanone	µg/kg	ND<7.6	ND<6.6	ND<6.1	ND<6.1
Acetone	µg/kg	**8.2 J**	**5.6 J**	**5.6 J**	ND<5.10
Benzene	µg/kg	ND<1.0	ND<0.89	ND<0.82	ND<0.82
Bromobenzene	µg/kg	ND<0.98	ND<0.86	ND<0.79	ND<0.79
Bromochloromethane	µg/kg	ND<0.98	ND<0.86	ND<0.79	ND<0.79
Bromodichloromethane	µg/kg	ND<0.91	ND<0.80	ND<0.74	ND<0.74
Bromoform	µg/kg	ND<1.1	ND<0.96	ND<0.88	ND<0.88
Bromomethane	µg/kg	ND<6.2	ND<5.4	ND<5.0	ND<5.0
Carbon disulfide	µg/kg	ND<0.76	ND<0.67	ND<0.62	ND<0.62
Carbon tetrachloride	µg/kg	ND<0.96	ND<0.85	ND<0.78	ND<0.78
Chlorobenzene	µg/kg	ND<1.1	ND<0.93	ND<0.86	ND<0.86
Chloroethane	µg/kg	ND<1.7	ND<1.5	ND<1.4	ND<1.4
Chloroform	µg/kg	ND<1.0	ND<0.89	ND<0.82	ND<0.82
Chloromethane	µg/kg	ND<1.1	ND<0.96	ND<0.88	ND<0.88
cis-1,2-Dichloroethene	µg/kg	**3.6 J**	ND<0.87	ND<0.80	ND<0.80

Table 4-5
Hyrdopunch Soil Analytical Results, Building 120
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	T-50-S6.5 10/12/2006	T-51-S7 10/12/2006	T-52-S6.5 10/17/2006	T-53-S7 10/17/2006
VOCs					
cis-1,3-Dichloropropene	µg/kg	ND<0.96	ND<0.85	ND<0.78	ND<0.78
Dibromochloromethane	µg/kg	ND<1.0	ND<0.89	ND<0.82	ND<0.82
Dibromomethane	µg/kg	ND<1.0	ND<0.89	ND<0.82	ND<0.82
Dichlorodifluoromethane	µg/kg	ND<1.2	ND<1.1	ND<1.0	ND<1.0
Ethylbenzene	µg/kg	ND<1.1	ND<0.93	ND<0.86	ND<0.86
Hexachlorobutadiene	µg/kg	ND<1.3	ND<1.2	ND<1.0	ND<1.0
Isopropylbenzene	µg/kg	ND<0.92	ND<0.82	ND<0.75	ND<0.75
m-,p-Xylene	µg/kg	ND<2.3	ND<2.0	-	-
Methylene chloride	µg/kg	**2.6 J**	**2.6 J**	ND<0.81	ND<0.81
Naphthalene	µg/kg	ND<2.0	ND<1.8	ND<1.6	ND<1.6
n-Butylbenzene	µg/kg	ND<1.1	ND<0.99	ND<0.91	ND<0.91
n-Propylbenzene	µg/kg	ND<1.0	ND<0.91	ND<0.84	ND<0.84
o-Xylene	µg/kg	ND<1.0	ND<0.91	-	-
p-Isopropyltoluene	µg/kg	ND<1.0	ND<0.92	ND<0.85	ND<0.85
sec-Butylbenzene	µg/kg	ND<1.1	ND<0.96	ND<0.88	ND<0.88
Styrene	µg/kg	ND<1.0	ND<0.88	ND<0.81	ND<0.81
tert-Butylbenzene	µg/kg	ND<1.1	ND<0.94	ND<0.87	ND<0.87
Tert-butylmethylether	µg/kg	ND<1.0	ND<0.90	ND<0.83	ND<0.83
Tetrachloroethene	µg/kg	**7.4**	ND<0.85	ND<0.78	ND<0.78
Toluene	µg/kg	ND<1.0	ND<0.91	ND<0.84	ND<0.84
trans-1,2-Dichloroethene	µg/kg	ND<1.1	ND<1.0	ND<0.92	ND<0.92
trans-1,3-Dichloropropene	µg/kg	ND<0.80	ND<0.71	ND<0.65	ND<0.65
Trichloroethene	µg/kg	**1.5 J**	ND<0.92	ND<0.85	ND<0.85
Trichlorofluoromethane	µg/kg	ND<1.0	ND<0.92	ND<0.85	ND<0.85
Vinyl acetate	µg/kg	ND<0.58	ND<0.51	ND<0.47	ND<0.47
Vinyl chloride	µg/kg	ND<0.99	ND<0.87	ND<0.80	ND<0.80
Xylene (total)	µg/kg	ND<1.0	ND<0.91	ND<0.84	ND<0.84
Total Petroleum Hydrocarbons					
Diesel Range Organics (DRO)	mg/kg	ND<6.7	ND<5.9	ND<5.4	ND<5.4
Heavy Range Organics (C24-C36)	mg/kg	**21**	ND<6.0	ND<5.5	ND<5.5
TPH-Gasoline	mg/kg	ND<4.1	ND<3.6	ND<3.3	ND<3.3

Notes:
ND< - Analyte not detected above associated method detection limit (MDL)
Bold - Analyted detected
- Not analyzed
J - Analyte was detected at a concentration below the reporting limit and above the MDL; reported value is estimated

Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	T-54-GW-11	T-54-GW-40	T-54-GW-65	T-55-GW-11	T-55-GW-40	T-55-GW-70	MWCL-1			MWCL-2		
		12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	8/31/2006	1/10/2007	8/22/2007	8/31/2006	1/11/2007	8/22/2007
Dissolved Metals													
Antimony	µg/L	-	-	-	-	-	-	-	-	-	ND<38	-	-
Arsenic	µg/L	-	-	-	-	-	-	-	-	-	**8.5**	-	-
Barium	µg/L	-	-	-	-	-	-	-	-	-	**85**	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	ND<1.00	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	ND<2.00	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	**4.00 J**	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	ND<3.00	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	**4.00 J**	-	-
Lead	µg/L	-	-	-	-	-	-	-	-	-	ND<41	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	ND<0.100	-	-
Molybdenum	µg/L	-	-	-	-	-	-	-	-	-	ND<7.00	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	ND<12	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	**17**	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	ND<2.00	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	ND<0.010	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	**4.0 J**	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	ND<3.00	-	-
Semi-Volatile Organic Compounds (SVOCs)													
1,2,4-Trichlorobenzene	µg/L	ND<2.0	ND<0.20	ND<0.20	ND<2.0	-	-	ND<0.20	ND<0.20	ND<1.3	ND<0.20	ND<0.20	ND<1.3
1,2-Dichlorobenzene	µg/L	ND<1.7	ND<0.17	ND<0.17	ND<1.7	-	-	ND<0.17	ND<0.17	ND<1.1	ND<0.17	ND<0.17	ND<1.1
1,3-Dichlorobenzene	µg/L	ND<2.0	ND<0.20	ND<0.20	ND<2.0	-	-	ND<0.20	ND<0.20	ND<1.2	ND<0.20	ND<0.20	ND<1.2
1,4-Dichlorobenzene	µg/L	ND<2.4	ND<0.24	ND<0.24	ND<2.4	-	-	ND<0.24	ND<0.24	ND<1.1	ND<0.24	ND<0.24	ND<1.1
1,4-Dioxane	µg/L	ND<4.1	ND<0.41	**0.70 J**	ND<4.1	-	-	**3.2**	**6.0**	-	ND<0.41	ND<0.41	-
2,4,5-Trichlorophenol	µg/L	ND<2.8	ND<0.28	ND<0.28	ND<2.8	-	-	ND<0.28	ND<0.28	ND<0.97	ND<0.28	ND<0.28	ND<0.97
2,4,6-Trichlorophenol	µg/L	ND<2.7	ND<0.27	ND<0.27	ND<2.7	-	-	ND<0.27	ND<0.27	ND<1.2	ND<0.27	ND<0.27	ND<1.2
2,4-Dichlorophenol	µg/L	ND<2.3	ND<0.23	ND<0.23	ND<2.3	-	-	ND<0.23	ND<0.23	ND<1.1	ND<0.23	ND<0.23	ND<1.1
2,4-Dimethylphenol	µg/L	ND<8.3	ND<0.83	ND<0.83	ND<8.3	-	-	ND<0.83	ND<0.83	ND<1.2	ND<0.83	ND<0.83	ND<1.2
2,4-Dinitrophenol	µg/L	ND<100	ND<10	ND<10	ND<100	-	-	ND<10	ND<10	ND<2.6	ND<10	ND<10	ND<2.6
2,4-Dinitrotoluene	µg/L	ND<3.0	ND<0.30	ND<0.30	ND<3.0	-	-	ND<0.30	ND<0.30	ND<1.0	ND<0.30	ND<0.30	ND<1.0
2,6-Dinitrotoluene	µg/L	ND<3.0	ND<0.30	ND<0.30	ND<3.0	-	-	ND<0.30	ND<0.30	ND<1.1	ND<0.30	ND<0.30	ND<1.1
2-Chloronaphthalene	µg/L	ND<2.2	ND<0.22	ND<0.22	ND<2.2	-	-	ND<0.22	ND<0.22	ND<1.3	ND<0.22	ND<0.22	ND<1.3
2-Chlorophenol	µg/L	ND<2.4	ND<0.24	ND<0.24	ND<2.4	-	-	ND<0.24	ND<0.24	ND<1.0	ND<0.24	ND<0.24	ND<1.0
2-Methyl-4,6-dinitrophenol	µg/L	ND<2.0	ND<0.20	ND<0.20	ND<2.0	-	-	ND<0.20	ND<0.20	ND<3.4	ND<0.20	ND<0.20	ND<3.4
2-Methylnaphthalene	µg/L	ND<1.8	ND<0.18	ND<0.18	ND<1.8	-	-	ND<0.18	ND<0.18	ND<1.2	ND<0.18	ND<0.18	ND<1.2
2-Methylphenol	µg/L	ND<3.2	ND<0.32	ND<0.32	ND<3.2	-	-	ND<0.32	ND<0.32	ND<1.1	ND<0.32	ND<0.32	ND<1.1
2-Nitroaniline	µg/L	ND<2.7	ND<0.27	ND<0.27	ND<2.7	-	-	ND<0.27	ND<0.27	ND<1.0	ND<0.27	ND<0.27	ND<1.0
2-Nitrophenol	µg/L	ND<2.6	ND<0.26	ND<0.26	ND<2.6	-	-	ND<0.26	ND<0.26	ND<1.2	ND<0.26	ND<0.26	ND<1.2
3,3'-Dichlorobenzidine	µg/L	ND<8.4	ND<0.84	ND<0.84	ND<8.4	-	-	ND<0.84	ND<0.84	ND<1.3	ND<0.84	ND<0.84	ND<1.3
3-Nitroaniline	µg/L	ND<2.9	ND<0.29	ND<0.29	ND<2.9	-	-	ND<0.29	ND<0.29	ND<1.2	ND<0.29	ND<0.29	ND<1.2
4-Bromophenyl Phenyl Ether	µg/L	ND<1.8	ND<0.18	ND<0.18	ND<1.8	-	-	ND<0.18	ND<0.18	ND<1.2	ND<0.18	ND<0.18	ND<1.2
4-Chloro-3-methylphenol	µg/L	ND<3.2	ND<0.32	ND<0.32	ND<3.2	-	-	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<1.2
4-Chloroaniline	µg/L	ND<3.6	ND<0.36	ND<0.36	ND<3.6	-	-	ND<0.36	ND<0.36	ND<1.3	ND<0.36	ND<0.36	ND<1.3
4-Chlorophenyl Phenyl Ether	µg/L	ND<2.1	ND<0.21	ND<0.21	ND<2.1	-	-	ND<0.21	ND<0.21	ND<1.2	ND<0.21	ND<0.21	ND<1.2
4-Methylphenol	µg/L	ND<2.8	ND<0.28	ND<0.28	ND<2.8	-	-	ND<0.28	ND<0.28	ND<1.0	ND<0.28	ND<0.28	ND<1.0
4-Nitroaniline	µg/L	ND<3.6	ND<0.36	ND<0.36	ND<3.6	-	-	ND<0.36	ND<0.36	ND<2.4	ND<0.36	ND<0.36	ND<2.4
4-Nitrophenol	µg/L	ND<200	ND<20	ND<20	ND<200	-	-	ND<20	ND<20	ND<0.86	ND<20	ND<20	ND<0.86

Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	T-54-GW-11	T-54-GW-40	T-54-GW-65	T-55-GW-11	T-55-GW-40	T-55-GW-70	MWCL-1			MWCL-2		
		12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	8/31/2006	1/10/2007	8/22/2007	8/31/2006	1/11/2007	8/22/2007
SVOCs													
Acenaphthene	µg/L	ND<1.5	ND<0.15	ND<0.15	ND<1.5	-	-	ND<0.15	ND<0.15	ND<1.4	ND<0.15	ND<0.15	ND<1.4
Acenaphthylene	µg/L	ND<2.3	ND<0.23	ND<0.23	ND<2.3	-	-	ND<0.23	ND<0.23	ND<1.4	ND<0.23	ND<0.23	ND<1.4
Aniline	µg/L	ND<3.4	ND<0.34	ND<0.34	ND<3.4	-	-	ND<0.34	ND<0.34	ND<1.2	ND<0.34	ND<0.34	ND<1.2
Anthracene	µg/L	ND<2.1	ND<0.21	ND<0.21	ND<2.1	-	-	ND<0.21	ND<0.21	ND<1.5	ND<0.21	ND<0.21	ND<1.5
Benz(a)anthracene	µg/L	ND<2.1	ND<0.21	ND<0.21	ND<2.1	-	-	ND<0.21	ND<0.21	ND<1.1	ND<0.21	ND<0.21	ND<1.1
Benzo(a)pyrene	µg/L	ND<5.4	ND<0.54	ND<0.54	ND<5.4	-	-	ND<0.54	ND<0.54	ND<0.88	ND<0.54	ND<0.54	ND<0.88
Benzo(b)fluoranthene	µg/L	ND<4.2	ND<0.42	ND<0.42	ND<4.2	-	-	ND<0.42	ND<0.42	ND<1.2	ND<0.42	ND<0.42	ND<1.2
Benzo(g,h,i)perylene	µg/L	ND<7.4	ND<0.74	ND<0.74	ND<7.4	-	-	ND<0.74	ND<0.74	ND<0.71	ND<0.74	ND<0.74	ND<0.71
Benzo(k)fluoranthene	µg/L	ND<3.2	ND<0.32	ND<0.32	ND<3.2	-	-	ND<0.32	ND<0.32	ND<1.7	ND<0.32	ND<0.32	ND<1.7
Benzoic acid	µg/L	ND<200	ND<20	ND<20	ND<200	-	-	ND<20	ND<20	ND<0.43	ND<20	ND<20	ND<0.43
Benzyl alcohol	µg/L	ND<2.2	ND<0.22	ND<0.22	ND<2.2	-	-	ND<0.22	ND<0.22	ND<1.0	ND<0.22	ND<0.22	ND<1.0
bis(2-Chloroethoxy)methane	µg/L	ND<3.2	ND<0.32	ND<0.32	ND<3.2	-	-	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<1.2
bis(2-Chloroethyl) Ether	µg/L	ND<2.4	ND<0.24	ND<0.24	ND<2.4	-	-	ND<0.24	ND<0.24	ND<1.0	ND<0.24	ND<0.24	ND<1.0
bis(2-Chloroisopropyl) Ether	µg/L	ND<2.4	ND<0.24	ND<0.24	ND<2.4	-	-	ND<0.24	ND<0.24	ND<1.5	ND<0.24	ND<0.24	ND<1.5
Bis(2-ethylhexyl) Phthalate	µg/L	ND<3.0	**3.1 J**	**0.51 J**	ND<3.0	-	-	**0.51 J**	**0.71 J**	ND<1.0	**0.42 J**	**1.4 J**	ND<1.0
Butyl Benzyl Phthalate	µg/L	ND<4.8	ND<0.48	ND<0.48	ND<4.8	-	-	ND<0.48	ND<0.48	ND<1.0	ND<0.48	ND<0.48	ND<1.0
Chrysene	µg/L	ND<2.2	ND<0.22	ND<0.22	ND<2.2	-	-	ND<0.22	ND<0.22	ND<1.3	ND<0.22	ND<0.22	ND<1.3
Di-n-butyl Phthalate	µg/L	ND<2.5	ND<0.25	**0.26 J**	ND<2.5	-	-	**0.30 J**	**0.34 J**	ND<1.5	**0.28 J**	**0.38 J**	ND<1.5
Di-n-octyl Phthalate	µg/L	ND<3.3	ND<0.33	ND<0.33	ND<3.3	-	-	ND<0.33	ND<0.33	ND<1.0	ND<0.33	ND<0.33	ND<1.0
Dibenz(a,h)anthracene	µg/L	ND<6.2	ND<0.62	ND<0.62	ND<6.2	-	-	ND<0.62	ND<0.62	ND<0.82	ND<0.62	ND<0.62	ND<0.82
Dibenzofuran	µg/L	ND<2.2	ND<0.22	ND<0.22	ND<2.2	-	-	ND<0.22	ND<0.22	ND<1.4	ND<0.22	ND<0.22	ND<1.4
Diethyl Phthalate	µg/L	ND<2.8	ND<0.28	ND<0.28	ND<2.8	-	-	ND<0.28	ND<0.28	ND<1.4	ND<0.28	ND<0.28	ND<1.4
Dimethyl Phthalate	µg/L	ND<2.6	ND<0.26	ND<0.26	ND<2.6	-	-	ND<0.26	ND<0.26	ND<1.3	ND<0.26	ND<0.26	ND<1.3
Fluoranthene	µg/L	ND<2.1	ND<0.21	ND<0.21	ND<2.1	-	-	ND<0.21	ND<0.21	ND<1.5	ND<0.21	ND<0.21	ND<1.5
Fluorene	µg/L	ND<2.2	ND<0.22	ND<0.22	ND<2.2	-	-	ND<0.22	ND<0.22	ND<1.4	ND<0.22	ND<0.22	ND<1.4
Hexachlorobenzene	µg/L	ND<2.1	ND<0.21	ND<0.21	ND<2.1	-	-	ND<0.21	ND<0.21	ND<1.2	ND<0.21	ND<0.21	ND<1.2
Hexachlorobutadiene	µg/L	ND<2.2	ND<0.22	ND<0.22	ND<2.2	-	-	ND<0.22	ND<0.22	ND<1.2	ND<0.22	ND<0.22	ND<1.2
Hexachlorocyclopentadiene	µg/L	ND<18	ND<1.8	ND<1.8	ND<18	-	-	ND<1.8	ND<1.8	ND<0.44	ND<1.8	ND<1.8	ND<0.44
Hexachloroethane	µg/L	ND<25	ND<2.5	ND<2.5	ND<25	-	-	ND<2.5	ND<2.5	ND<0.98	ND<2.5	ND<2.5	ND<0.98
Indeno(1,2,3-cd)pyrene	µg/L	ND<6.5	ND<0.65	ND<0.65	ND<6.5	-	-	ND<0.65	ND<0.65	ND<0.83	ND<0.65	ND<0.65	ND<0.83
Isophorone	µg/L	ND<3.0	ND<0.30	ND<0.30	ND<3.0	-	-	ND<0.30	ND<0.30	ND<1.2	ND<0.30	ND<0.30	ND<1.2
N-Nitrosodimethylamine	µg/L	ND<2.8	ND<0.48	ND<0.48	ND<2.8	-	-	ND<0.48	ND<0.48	ND<1.1	ND<0.48	ND<0.48	ND<1.1
N-Nitrosodi-n-propylamine	µg/L	ND<4.8	ND<0.28	ND<0.28	ND<4.8	-	-	ND<0.28	ND<0.28	ND<1.3	ND<0.28	ND<0.28	ND<1.3
N-Nitrosodiphenylamine	µg/L	ND<2.3	ND<0.23	ND<0.23	ND<2.3	-	-	ND<0.23	ND<0.23	ND<1.4	ND<0.23	ND<0.23	ND<1.4
Naphthalene	µg/L	ND<2.1	ND<0.21	ND<0.21	ND<2.1	-	-	ND<0.21	ND<0.21	ND<1.4	ND<0.21	ND<0.21	ND<1.4
Nitrobenzene	µg/L	ND<2.6	ND<0.26	ND<0.26	ND<2.6	-	-	ND<0.26	ND<0.26	ND<1.3	ND<0.26	ND<0.26	ND<1.3
Pentachlorophenol	µg/L	ND<6.3	ND<0.63	ND<0.63	ND<6.3	-	-	ND<0.63	ND<0.63	ND<0.75	ND<0.63	ND<0.63	ND<0.75
Phenanthrene	µg/L	ND<2.2	ND<0.22	ND<0.22	ND<2.2	-	-	ND<0.22	ND<0.22	ND<1.5	ND<0.22	ND<0.22	ND<1.5
Phenol	µg/L	ND<1.1	ND<0.11	**1.0 J**	**6.8 J**	-	-	ND<0.11	ND<0.11	ND<1.2	ND<0.11	ND<0.11	ND<1.2
Pyrene	µg/L	ND<3.3	ND<0.33	ND<0.33	ND<3.3	-	-	ND<0.33	ND<0.33	ND<1.4	ND<0.33	ND<0.33	ND<1.4
Pyridine	µg/L	ND<3.3	ND<0.33	ND<0.33	ND<3.3	-	-	ND<0.33	ND<0.33	ND<1.4	ND<0.33	ND<0.33	ND<1.4

Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	T-54-GW-11	T-54-GW-40	T-54-GW-65	T-55-GW-11	T-55-GW-40	T-55-GW-70	MWCL-1			MWCL-2		
		12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	8/31/2006	1/10/2007	8/22/2007	8/31/2006	1/11/2007	8/22/2007
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	µg/L	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.34	ND<0.19	ND<0.19	ND<0.34
1,1,1-Trichloroethane (TCA)	µg/L	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.26	ND<0.16	ND<0.16	ND<0.26
1,1,2,2-Tetrachloroethane	µg/L	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.30
1,1,2-Trichloroethane	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.49	ND<0.15	ND<0.15	ND<0.49
1,1,2-Trichlorotrifluoroethane	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.68	ND<0.15	ND<0.15	ND<0.68
1,1-Dichloroethane (1,1-DCA)	µg/L	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	**0.87**	**0.64**	ND<0.27	ND<0.11	ND<0.11	ND<0.27
1,1-Dichloroethene (1,1-DCE)	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.29	ND<0.15	ND<0.15	ND<0.29
1,1-Dichloropropene	µg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.24
1,2,3-Trichlorobenzene	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.43	ND<0.15	ND<0.15	ND<0.43
1,2,3-Trichloropropane	µg/L	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<1.4	ND<0.20	ND<0.20	ND<1.4
1,2,4-Trichlorobenzene	µg/L	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<1.3	ND<0.11	ND<0.11	ND<1.3
1,2,4-Trimethylbenzene	µg/L	ND<0.080	ND<0.080	ND<0.080	ND<0.080	ND<0.080	ND<0.080	**0.11 J**	ND<0.080	ND<0.23	ND<0.080	ND<0.080	ND<0.23
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND<0.95	ND<0.95	ND<0.95	ND<0.95	ND<0.95	ND<0.95	ND<0.95	ND<0.95	ND<3.2	ND<0.95	ND<0.95	ND<3.2
1,2-Dibromoethane (EDB)	µg/L	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.49	ND<0.19	ND<0.19	ND<0.49
1,2-Dichlorobenzene	µg/L	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<1.1	ND<0.12	ND<0.12	ND<1.1
1,2-Dichloroethane (EDC)	µg/L	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.26	ND<0.10	ND<0.10	ND<0.26
1,2-Dichloropropane	µg/L	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.36	ND<0.16	ND<0.16	ND<0.36
1,3,5-Trimethylbenzene	µg/L	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.18	ND<0.090	ND<0.090	ND<0.18
1,3-Dichlorobenzene	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<1.2	ND<0.15	ND<0.15	ND<1.2
1,3-Dichloropropane	µg/L	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.26
1,4-Dichlorobenzene	µg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<1.1	ND<0.14	ND<0.14	ND<1.1
2,2-Dichloropropane	µg/L	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.28	ND<0.16	ND<0.16	ND<0.28
2-Butanone (MEK)	µg/L	**3.5 J**	**3.8 J**	**9.0 J**	**2.2 J**	**16**	**3.1 J**	ND<0.66	**1.3 J**	ND<6.7	ND<0.66	**1.4 J**	ND<6.7
2-Chlorotoluene	µg/L	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.18	ND<0.11	ND<0.11	ND<0.18
2-Hexanone	µg/L	ND<0.49	**1.4 J**	ND<0.49	ND<0.49	**2.2 J**	ND<0.49	ND<0.49	ND<0.49	ND<5.4	ND<0.49	ND<0.49	ND<5.4
4-Chlorotoluene	µg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.27	ND<0.14	ND<0.14	ND<0.27
4-Isopropyltoluene	µg/L	**0.89 J**	**0.14 J**	**0.29 J**	ND<0.060	ND<0.060	ND<0.060	ND<0.060	ND<0.060	ND<0.31	ND<0.060	ND<0.060	ND<0.31
4-Methyl-2-pentanone (MIBK)	µg/L	**0.72 J**	**15**	**8.7 J**	**0.79 J**	**9.1 J**	**11**	ND<0.56	ND<0.56	ND<3.7	ND<0.56	ND<0.56	ND<3.7
Acetone	µg/L	**36**	**20**	**33**	**15**	**76**	**13**	ND<0.91	ND<0.91	ND<6.3	ND<0.91	ND<0.91	ND<6.3
Benzene	µg/L	**0.19 J**	ND<0.13	**0.41 J**	ND<0.13	**0.14 J**	**0.24 J**	ND<0.13	ND<0.13	ND<0.14	ND<0.13	ND<0.13	ND<0.14
Bromobenzene	µg/L	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.27	ND<0.13	ND<0.13	ND<0.27
Bromochloromethane	µg/L	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.70	ND<0.17	ND<0.17	ND<0.70
Bromodichloromethane	µg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.24
Bromoform	µg/L	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.66	ND<0.18	ND<0.18	ND<0.66
Bromomethane	µg/L	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<5.1	ND<0.090	ND<0.090	ND<5.1
Carbon Disulfide	µg/L	**0.20 J**	**3.8**	**0.25 J**	**0.44 J**	**14**	**0.84 J**	ND<0.14	ND<0.14	ND<0.40	ND<0.14	ND<0.14	ND<0.40
Carbon Tetrachloride	µg/L	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.32	ND<0.13	ND<0.13	ND<0.32
Chlorobenzene	µg/L	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.14	ND<0.12	ND<0.12	ND<0.14
Chloroform	µg/L	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.24	ND<0.13	ND<0.13	ND<0.24
Chloromethane	µg/L	ND<0.24	**0.36 J**	**0.27 J**	**0.75 J**	**0.47 J**	**0.34 J**	**0.26 J**	ND<0.24	ND<0.63	ND<0.24	ND<0.24	ND<0.63
Chloroethane	µg/L	ND<0.18	ND<0.18	ND<0.18	**0.69 J**	**0.37 J**	ND<0.18	ND<0.18	ND<0.18	ND<0.69	ND<0.18	ND<0.18	ND<0.69
cis-1,2-Dichloroethene	µg/L	ND<0.14	ND<0.14	**0.29 J**	ND<0.14	ND<0.14	**0.31 J**	**0.22 J**	**0.17 J**	ND<0.35	**0.45 J**	**0.46 J**	ND<0.35
cis-1,3-Dichloropropene	µg/L	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.31	ND<0.14	ND<0.14	ND<0.31
Dibromochloromethane	µg/L	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.41	ND<0.12	ND<0.12	ND<0.41
Dibromomethane	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.57	ND<0.15	ND<0.15	ND<0.57
Dichlorodifluoromethane (CFC 12)	µg/L	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.89	ND<0.15	ND<0.15	ND<0.89
Dichloromethane (Methylene Choride)	µg/L	**0.82 J**	**0.73 J**	**0.69 J**	**0.54 J**	**0.41 J**	**0.44 J**	ND<0.19	ND<0.19	ND<4.3	ND<0.19	ND<0.19	ND<4.3

Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

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Parameter	Units	T-54-GW-11	T-54-GW-40	T-54-GW-65	T-55-GW-11	T-55-GW-40	T-55-GW-70	MWCL-1			MWCL-2		
		12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	8/31/2006	1/10/2007	8/22/2007	8/31/2006	1/11/2007	8/22/2007
VOCs													
Ethylbenzene	µg/L	**0.19 J**	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.23	ND<0.11	ND<0.11	ND<0.23
Hexachlorobutadiene	µg/L	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<1.2	ND<0.26	ND<0.26	ND<1.2
Isopropylbenzene	µg/L	**0.38 J**	ND<0.090	**0.13 J**	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.26	ND<0.090	ND<0.090	ND<0.26
Methyl tert-Butyl Ether	µg/L	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.26
Naphthalene	µg/L	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<1.4	ND<0.10	ND<0.10	ND<1.4
n-Butylbenzene	µg/L	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.29	ND<0.10	ND<0.10	ND<0.29
n-Propylbenzene	µg/L	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.12	ND<0.090	ND<0.090	ND<0.12
sec-Butylbenzene	µg/L	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.32	ND<0.090	ND<0.090	ND<0.32
Styrene	µg/L	ND<0.070	ND<0.070	ND<0.070	ND<0.070	ND<0.070	ND<0.070	ND<0.070	ND<0.070	ND<0.29	ND<0.070	ND<0.070	ND<0.29
tert-Butylbenzene	µg/L	ND<0.080	ND<0.080	ND<0.080	**0.094 J**	ND<0.080	ND<0.080	ND<0.080	ND<0.080	ND<0.33	ND<0.080	ND<0.080	ND<0.33
Tetrachloroethene (PCE)	µg/L	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.35	ND<0.090	ND<0.090	ND<0.35
Toluene	µg/L	**0.15 J**	**0.21 J**	**0.44 J**	ND<0.13	**0.38 J**	**0.68**	**0.21 J**	**0.15 J**	ND<0.27	ND<0.13	ND<0.13	ND<0.27
trans-1,2-Dichloroethene	µg/L	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.38	ND<0.16	ND<0.16	ND<0.38
trans-1,3-Dichloropropene	µg/L	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.49	ND<0.090	ND<0.090	ND<0.49
Trichloroethene (TCE)	µg/L	ND<0.14	ND<0.14	**4.3**	ND<0.14	ND<0.14	**35**	ND<0.14	ND<0.14	ND<0.37	ND<0.14	ND<0.14	ND<0.37
Trichlorofluoromethane (CFC 11)	µg/L	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.21	ND<0.18	ND<0.18	ND<0.21
Vinyl Acetate	µg/L	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<3.7	ND<0.24	ND<0.24	ND<3.7
Vinyl Chloride	µg/L	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.36	ND<0.16	ND<0.16	ND<0.36
Xylenes, Total	µg/L	**0.97 J**	ND<0.10	**0.14 J**	**0.52 J**	ND<0.10	ND<0.10	**0.27 J**	ND<0.10	ND<0.54	ND<0.10	ND<0.10	ND<0.54
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics (C6-C12)	mg/L	ND<0.50	ND<0.50	ND<0.50	**0.60 J**	**0.68 J**	ND<0.50	ND<0.50	-	ND	ND<0.50	-	ND
Diesel Range Organics (C13-C22)	mg/L	**1.8**	ND<0.44	ND<0.44	**4.7**	**0.83 J**	ND<0.44	ND<0.44	-	ND	ND<0.44	-	ND
Heavy Range Organics (C24-C36)	mg/L	**1.7**	ND<0.50	ND<0.50	**3.6**	**1.2**	ND<0.50	ND<0.50	-	ND	ND<0.50	-	ND
C7 - C36 Total	mg/L	-	-	-	-	-	-	-	ND<0.50	ND<480	-	ND<0.50	ND<480
Polychlorinated Biphenyls (PCBs)													
Aroclor 1016	µg/L	-	-	-	-	-	-	-	-	-	ND<0.24	-	-
Aroclor 1221	µg/L	-	-	-	-	-	-	-	-	-	ND<0.22	-	-
Aroclor 1232	µg/L	-	-	-	-	-	-	-	-	-	ND<0.2	-	-
Aroclor 1242	µg/L	-	-	-	-	-	-	-	-	-	ND<0.043	-	-
Aroclor 1248	µg/L	-	-	-	-	-	-	-	-	-	ND<0.12	-	-
Aroclor 1254	µg/L	-	-	-	-	-	-	-	-	-	ND<0.063	-	-
Aroclor 1260	µg/L	-	-	-	-	-	-	-	-	-	ND<0.081	-	-

Notes:
ND< - Analyte not detected above associated method detection limit (MDL)
- Not analyzed
Bold - Analyted detected
J - Analyte was detected at a concentration below the reporting limit and above the MDL; reported value is estimated

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Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

		MWCL-3			MWCL-4			MWCL-5			MWCL-6		
Parameter	**Units**	**8/31/2006**	**1/11/2007**	**8/24/2007**	**8/31/2006**	**1/11/2007**	**8/22/2007**	**9/1/2006**	**1/12/2007**	**8/24/2007**	**8/31/2006**	**1/11/2007**	**8/24/2007**
Dissolved Metals													
Antimony	µg/L	-	-	-	-	-	-	ND<380	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-	**27**	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	**118 J**	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	ND<10	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	ND<20	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	ND<30	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	**33 J**	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	**21 J**	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	ND<410	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	ND<0.100	-	-	-	-	-
Molybdenum	µg/L	-	-	-	-	-	-	ND<70	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	ND<120	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	**52**	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	ND<20	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	**0.074 J**	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	**49 J**	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	ND<30	-	-	-	-	-
Semi-Volatile Organic Compounds (SVOCs)													
1,2,4-Trichlorobenzene	µg/L	ND<0.20	ND<0.20	ND<1.3	ND<0.20	ND<0.20	ND<1.3	ND<0.20	ND<0.20	ND<1.3	ND<0.20	ND<0.20	ND<1.3
1,2-Dichlorobenzene	µg/L	ND<0.17	ND<0.17	ND<1.1	ND<0.17	ND<0.17	ND<1.1	ND<0.17	ND<0.17	ND<1.1	ND<0.17	ND<0.17	ND<1.1
1,3-Dichlorobenzene	µg/L	ND<0.20	ND<0.20	ND<1.2	ND<0.20	ND<0.20	ND<1.2	ND<0.20	ND<0.20	ND<1.2	ND<0.20	ND<0.20	ND<1.2
1,4-Dichlorobenzene	µg/L	ND<0.24	ND<0.24	ND<1.1	ND<0.24	ND<0.24	ND<1.1	ND<0.24	ND<0.24	ND<1.1	ND<0.24	ND<0.24	ND<1.1
1,4-Dioxane	µg/L	ND<0.41	ND<0.41	-	ND<0.41	ND<0.41	-	**0.80 J**	ND<0.41	-	**2.3**	**1.9 J**	-
2,4,5-Trichlorophenol	µg/L	ND<0.28	ND<0.28	ND<0.97	ND<0.28	ND<0.28	ND<0.97	ND<0.28	ND<0.28	ND<0.97	ND<0.28	ND<0.28	ND<0.97
2,4,6-Trichlorophenol	µg/L	ND<0.27	ND<0.27	ND<1.2	ND<0.27	ND<0.27	ND<1.2	ND<0.27	ND<0.27	ND<1.2	ND<0.27	ND<0.27	ND<1.2
2,4-Dichlorophenol	µg/L	ND<0.23	ND<0.23	ND<1.1	ND<0.23	ND<0.23	ND<1.1	ND<0.23	ND<0.23	ND<1.1	ND<0.23	ND<0.23	ND<1.1
2,4-Dimethylphenol	µg/L	ND<0.83	ND<0.83	ND<1.2	ND<0.83	ND<0.83	ND<1.2	ND<0.83	ND<0.83	ND<1.2	ND<0.83	ND<0.83	ND<1.2
2,4-Dinitrophenol	µg/L	ND<10	ND<10	ND<2.6	ND<10	ND<10	ND<2.6	ND<10	ND<10	ND<2.6	ND<10	ND<10	ND<2.6
2,4-Dinitrotoluene	µg/L	ND<0.30	ND<0.30	ND<1.0	ND<0.30	ND<0.30	ND<1.0	ND<0.30	ND<0.30	ND<1.0	ND<0.30	ND<0.30	ND<1.0
2,6-Dinitrotoluene	µg/L	ND<0.30	ND<0.30	ND<1.1	ND<0.30	ND<0.30	ND<1.1	ND<0.30	ND<0.30	ND<1.1	ND<0.30	ND<0.30	ND<1.1
2-Chloronaphthalene	µg/L	ND<0.22	ND<0.22	ND<1.3	ND<0.22	ND<0.22	ND<1.3	ND<0.22	ND<0.22	ND<1.3	ND<0.22	ND<0.22	ND<1.3
2-Chlorophenol	µg/L	ND<0.24	ND<0.24	ND<1.0	ND<0.24	ND<0.24	ND<1.0	ND<0.24	ND<0.24	ND<1.0	ND<0.24	ND<0.24	ND<1.0
2-Methyl-4,6-dinitrophenol	µg/L	ND<0.20	ND<0.20	ND<3.4	ND<0.20	ND<0.20	ND<3.4	ND<0.20	ND<0.20	ND<3.4	ND<0.20	ND<0.20	ND<3.4
2-Methylnaphthalene	µg/L	ND<0.18	ND<0.18	ND<1.2	ND<0.18	ND<0.18	ND<1.2	ND<0.18	ND<0.18	ND<1.2	ND<0.18	ND<0.18	ND<1.2
2-Methylphenol	µg/L	ND<0.32	ND<0.32	ND<1.1	ND<0.32	ND<0.32	ND<1.1	ND<0.32	ND<0.32	ND<1.1	ND<0.32	ND<0.32	ND<1.1
2-Nitroaniline	µg/L	ND<0.27	ND<0.27	ND<1.0	ND<0.27	ND<0.27	ND<1.0	ND<0.27	ND<0.27	ND<1.0	ND<0.27	ND<0.27	ND<1.0
2-Nitrophenol	µg/L	ND<0.26	ND<0.26	ND<1.2	ND<0.26	ND<0.26	ND<1.2	ND<0.26	ND<0.26	ND<1.2	ND<0.26	ND<0.26	ND<1.2
3,3'-Dichlorobenzidine	µg/L	ND<0.84	ND<0.84	ND<1.3	ND<0.84	ND<0.84	ND<1.3	ND<0.84	ND<0.84	ND<1.3	ND<0.84	ND<0.84	ND<1.3
3-Nitroaniline	µg/L	ND<0.29	ND<0.29	ND<1.2	ND<0.29	ND<0.29	ND<1.2	ND<0.29	ND<0.29	ND<1.2	ND<0.29	ND<0.29	ND<1.2
4-Bromophenyl Phenyl Ether	µg/L	ND<0.18	ND<0.18	ND<1.2	ND<0.18	ND<0.18	ND<1.2	ND<0.18	ND<0.18	ND<1.2	ND<0.18	ND<0.18	ND<1.2
4-Chloro-3-methylphenol	µg/L	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<1.2
4-Chloroaniline	µg/L	ND<0.36	ND<0.36	ND<1.3	ND<0.36	ND<0.36	ND<1.3	ND<0.36	ND<0.36	ND<1.3	ND<0.36	ND<0.36	ND<1.3
4-Chlorophenyl Phenyl Ether	µg/L	ND<0.21	ND<0.21	ND<1.2	ND<0.21	ND<0.21	ND<1.2	ND<0.21	ND<0.21	ND<1.2	ND<0.21	ND<0.21	ND<1.2
4-Methylphenol	µg/L	ND<0.28	ND<0.28	ND<1.0	ND<0.28	ND<0.28	ND<1.0	ND<0.28	ND<0.28	ND<1.0	ND<0.28	ND<0.28	ND<1.0
4-Nitroaniline	µg/L	ND<0.36	ND<0.36	ND<2.4	ND<0.36	ND<0.36	ND<2.4	ND<0.36	ND<0.36	ND<2.4	ND<0.36	ND<0.36	ND<2.4
4-Nitrophenol	µg/L	ND<20	ND<20	ND<0.86	ND<20	ND<20	ND<0.86	ND<20	ND<20	ND<0.86	ND<20	ND<20	ND<0.86

Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	MWCL-3			MWCL-4			MWCL-5			MWCL-6		
		8/31/2006	1/11/2007	8/24/2007	8/31/2006	1/11/2007	8/22/2007	9/1/2006	1/12/2007	8/24/2007	8/31/2006	1/11/2007	8/24/2007
SVOCs													
Acenaphthene	µg/L	ND<0.15	ND<0.15	ND<1.4	ND<0.15	ND<0.15	ND<1.4	**0.36 J**	ND<0.15	ND<1.4	**13**	**7.1**	ND<1.4
Acenaphthylene	µg/L	ND<0.23	ND<0.23	ND<1.4	ND<0.23	ND<0.23	ND<1.4	ND<0.23	ND<0.23	ND<1.4	**0.33 J**	ND<0.23	ND<1.4
Aniline	µg/L	ND<0.34	ND<0.34	ND<1.2	ND<0.34	ND<0.34	ND<1.2	ND<0.34	ND<0.34	ND<1.2	ND<0.34	ND<0.34	ND<1.2
Anthracene	µg/L	ND<0.21	ND<0.21	ND<1.5	ND<0.21	ND<0.21	ND<1.5	ND<0.21	ND<0.21	ND<1.5	ND<0.21	ND<0.21	ND<1.5
Benz(a)anthracene	µg/L	ND<0.21	ND<0.21	ND<1.1	ND<0.21	ND<0.21	ND<1.1	ND<0.21	ND<0.21	ND<1.1	ND<0.21	ND<0.21	ND<1.1
Benzo(a)pyrene	µg/L	ND<0.54	ND<0.54	ND<0.88	ND<0.54	ND<0.54	ND<0.88	ND<0.54	ND<0.54	ND<0.88	ND<0.54	ND<0.54	ND<0.88
Benzo(b)fluoranthene	µg/L	ND<0.42	ND<0.42	ND<1.2	ND<0.42	ND<0.42	ND<1.2	ND<0.42	ND<0.42	ND<1.2	ND<0.42	ND<0.42	ND<1.2
Benzo(g,h,i)perylene	µg/L	ND<0.74	ND<0.74	ND<0.71	ND<0.74	ND<0.74	ND<0.71	ND<0.74	ND<0.74	ND<0.71	ND<0.74	ND<0.74	ND<0.71
Benzo(k)fluoranthene	µg/L	ND<0.32	ND<0.32	ND<1.7	ND<0.32	ND<0.32	ND<1.7	ND<0.32	ND<0.32	ND<1.7	ND<0.32	ND<0.32	ND<1.7
Benzoic acid	µg/L	ND<20	ND<20	ND<0.43	ND<20	ND<20	ND<0.43	ND<20	ND<20	ND<0.43	ND<20	ND<20	ND<0.43
Benzyl alcohol	µg/L	ND<0.22	ND<0.22	ND<1.0	ND<0.22	ND<0.22	ND<1.0	ND<0.22	ND<0.22	ND<1.0	ND<0.22	ND<0.22	ND<1.0
bis(2-Chloroethoxy)methane	µg/L	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<1.2	ND<0.32	ND<0.32	ND<1.2
bis(2-Chloroethyl) Ether	µg/L	ND<0.24	ND<0.24	ND<1.0	ND<0.24	ND<0.24	ND<1.0	ND<0.24	ND<0.24	ND<1.0	ND<0.24	ND<0.24	ND<1.0
bis(2-Chloroisopropyl) Ether	µg/L	ND<0.24	ND<0.24	ND<1.5	ND<0.24	ND<0.24	ND<1.5	ND<0.24	ND<0.24	ND<1.5	ND<0.24	ND<0.24	ND<1.5
Bis(2-ethylhexyl) Phthalate	µg/L	**0.85 J**	**1.8 J**	ND<1.0	ND<0.30	**0.43 J**	ND<1.0	**1.2 J**	**0.92 J**	ND<1.0	ND<0.30	**1.3 J**	ND<1.0
Butyl Benzyl Phthalate	µg/L	ND<0.48	ND<0.48	ND<1.0	ND<0.48	ND<0.48	ND<1.0	ND<0.48	ND<0.48	ND<1.0	ND<0.48	ND<0.48	ND<1.0
Chrysene	µg/L	ND<0.22	ND<0.22	ND<1.3	ND<0.22	ND<0.22	ND<1.3	ND<0.22	ND<0.22	ND<1.3	ND<0.22	ND<0.22	ND<1.3
Di-n-butyl Phthalate	µg/L	**0.38 J**	**0.49 J**	ND<1.5	**0.28 J**	**0.39 J**	ND<1.5	**0.98 J**	**0.44 J**	ND<1.5	**0.32 J**	**0.37 J**	ND<1.5
Di-n-octyl Phthalate	µg/L	ND<0.33	ND<0.33	ND<1.0	ND<0.33	ND<0.33	ND<1.0	ND<0.33	ND<0.33	ND<1.0	ND<0.33	ND<0.33	ND<1.0
Dibenz(a,h)anthracene	µg/L	ND<0.62	ND<0.62	ND<0.82	ND<0.62	ND<0.62	ND<0.82	ND<0.62	ND<0.62	ND<0.82	ND<0.62	ND<0.62	ND<0.82
Dibenzofuran	µg/L	ND<0.22	ND<0.22	ND<1.4	ND<0.22	ND<0.22	ND<1.4	ND<0.22	ND<0.22	ND<1.4	ND<0.22	**0.88 J**	ND<1.4
Diethyl Phthalate	µg/L	ND<0.28	ND<0.28	ND<1.4	ND<0.28	**0.47 J**	ND<1.4	ND<0.28	ND<0.28	ND<1.4	ND<0.28	**0.30 J**	ND<1.4
Dimethyl Phthalate	µg/L	ND<0.26	ND<0.26	ND<1.3	ND<0.26	ND<0.26	ND<1.3	ND<0.26	ND<0.26	ND<1.3	ND<0.26	ND<0.26	ND<1.3
Fluoranthene	µg/L	ND<0.21	ND<0.21	ND<1.5	ND<0.21	ND<0.21	ND<1.5	ND<0.21	ND<0.21	ND<1.5	**1.8 J**	ND<0.21	ND<1.5
Fluorene	µg/L	ND<0.22	ND<0.22	ND<1.4	ND<0.22	ND<0.22	ND<1.4	ND<0.22	ND<0.22	ND<1.4	ND<0.22	**0.95 J**	ND<1.4
Hexachlorobenzene	µg/L	ND<0.21	ND<0.21	ND<1.2	ND<0.21	ND<0.21	ND<1.2	ND<0.21	ND<0.21	ND<1.2	ND<0.21	ND<0.21	ND<1.2
Hexachlorobutadiene	µg/L	ND<0.22	ND<0.22	ND<1.2	ND<0.22	ND<0.22	ND<1.2	ND<0.22	ND<0.22	ND<1.2	ND<0.22	ND<0.22	ND<1.2
Hexachlorocyclopentadiene	µg/L	ND<1.8	ND<1.8	ND<0.44	ND<1.8	ND<1.8	ND<0.44	ND<1.8	ND<1.8	ND<0.44	ND<1.8	ND<1.8	ND<0.44
Hexachloroethane	µg/L	ND<2.5	ND<2.5	ND<0.98	ND<2.5	ND<2.5	ND<0.98	ND<2.5	ND<2.5	ND<0.98	ND<2.5	ND<2.5	ND<0.98
Indeno(1,2,3-cd)pyrene	µg/L	ND<0.65	ND<0.65	ND<0.83	ND<0.65	ND<0.65	ND<0.83	ND<0.65	ND<0.65	ND<0.83	ND<0.65	ND<0.65	ND<0.83
Isophorone	µg/L	ND<0.30	ND<0.30	ND<1.2	ND<0.30	ND<0.30	ND<1.2	ND<0.30	ND<0.30	ND<1.2	ND<0.30	ND<0.30	ND<1.2
N-Nitrosodimethylamine	µg/L	ND<0.48	ND<0.48	ND<1.1	ND<0.48	ND<0.48	ND<1.1	ND<0.48	ND<0.48	ND<1.1	ND<0.48	ND<0.48	ND<1.1
N-Nitrosodi-n-propylamine	µg/L	ND<0.28	ND<0.28	ND<1.3	ND<0.28	ND<0.28	ND<1.3	ND<0.28	ND<0.28	ND<1.3	ND<0.28	ND<0.28	ND<1.3
N-Nitrosodiphenylamine	µg/L	ND<0.23	ND<0.23	ND<1.4	ND<0.23	ND<0.23	ND<1.4	ND<0.23	ND<0.23	ND<1.4	ND<0.23	ND<0.23	ND<1.4
Naphthalene	µg/L	ND<0.21	ND<0.21	ND<1.4	ND<0.21	ND<0.21	ND<1.4	ND<0.21	ND<0.21	ND<1.4	ND<0.21	**2.4 J**	ND<1.4
Nitrobenzene	µg/L	ND<0.26	ND<0.26	ND<1.3	ND<0.26	ND<0.26	ND<1.3	ND<0.26	ND<0.26	ND<1.3	ND<0.26	ND<0.26	ND<1.3
Pentachlorophenol	µg/L	ND<0.63	ND<0.63	ND<0.75	ND<0.63	ND<0.63	ND<0.75	ND<0.63	ND<0.63	ND<0.75	ND<0.63	ND<0.63	ND<0.75
Phenanthrene	µg/L	ND<0.22	ND<0.22	ND<1.5	ND<0.22	ND<0.22	ND<1.5	ND<0.22	ND<0.22	ND<1.5	ND<0.22	ND<0.22	ND<1.5
Phenol	µg/L	ND<0.11	ND<0.11	ND<1.2	ND<0.11	ND<0.11	ND<1.2	ND<0.11	ND<0.11	ND<1.2	ND<0.11	ND<0.11	ND<1.2
Pyrene	µg/L	ND<0.33	ND<0.33	ND<1.4	ND<0.33	ND<0.33	ND<1.4	ND<0.33	ND<0.33	ND<1.4	**2.9 J**	ND<0.33	ND<1.4
Pyridine	µg/L	ND<0.33	ND<0.33	ND<1.4	ND<0.33	ND<0.33	ND<1.4	ND<0.33	ND<0.33	ND<1.4	ND<0.33	ND<0.33	ND<1.4

Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Parameter	Units	MWCL-3			MWCL-4			MWCL-5			MWCL-6		
		8/31/2006	1/11/2007	8/24/2007	8/31/2006	1/11/2007	8/22/2007	9/1/2006	1/12/2007	8/24/2007	8/31/2006	1/11/2007	8/24/2007
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	µg/L	ND<0.19	ND<0.19	ND<0.34	ND<0.19	ND<0.19	ND<0.34	ND<0.19	ND<0.19	ND<0.34	ND<0.19	ND<0.19	ND<0.34
1,1,1-Trichloroethane (TCA)	µg/L	ND<0.16	ND<0.16	ND<0.26	ND<0.16	ND<0.16	ND<0.26	ND<0.16	ND<0.16	ND<0.26	ND<0.16	ND<0.16	ND<0.26
1,1,2,2-Tetrachloroethane	µg/L	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.30
1,1,2-Trichloroethane	µg/L	ND<0.15	ND<0.15	ND<0.49	ND<0.15	ND<0.15	ND<0.49	ND<0.15	ND<0.15	ND<0.49	ND<0.15	ND<0.15	ND<0.49
1,1,2-Trichlorotrifluoroethane	µg/L	ND<0.15	ND<0.15	ND<0.68	ND<0.15	ND<0.15	ND<0.68	ND<0.15	ND<0.15	ND<0.68	ND<0.15	ND<0.15	ND<0.68
1,1-Dichloroethane (1,1-DCA)	µg/L	ND<0.11	ND<0.11	ND<0.27	ND<0.11	ND<0.11	ND<0.27	ND<0.11	ND<0.11	ND<0.27	**0.24 J**	**0.24 J**	ND<0.27
1,1-Dichloroethene (1,1-DCE)	µg/L	ND<0.15	ND<0.15	ND<0.29	ND<0.15	ND<0.15	ND<0.29	ND<0.15	ND<0.15	ND<0.29	ND<0.15	ND<0.15	ND<0.29
1,1-Dichloropropene	µg/L	ND<0.14	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.24
1,2,3-Trichlorobenzene	µg/L	ND<0.15	ND<0.15	ND<0.43	ND<0.15	ND<0.15	ND<0.43	ND<0.15	ND<0.15	ND<0.43	ND<0.15	ND<0.15	ND<0.43
1,2,3-Trichloropropane	µg/L	ND<0.20	ND<0.20	ND<1.4	ND<0.20	ND<0.20	ND<1.4	ND<0.20	ND<0.20	ND<1.4	ND<0.20	ND<0.20	ND<1.4
1,2,4-Trichlorobenzene	µg/L	ND<0.11	ND<0.11	ND<1.3	ND<0.11	ND<0.11	ND<1.3	ND<0.11	ND<0.11	ND<1.3	ND<0.11	ND<0.11	ND<1.3
1,2,4-Trimethylbenzene	µg/L	ND<0.080	ND<0.080	ND<0.23	ND<0.080	ND<0.080	ND<0.23	ND<0.080	ND<0.080	ND<0.23	**0.27 J**	ND<0.080	ND<0.23
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND<0.95	ND<0.95	ND<3.2	ND<0.95	ND<0.95	ND<3.2	ND<0.95	ND<0.95	ND<3.2	ND<0.95	ND<0.95	ND<3.2
1,2-Dibromoethane (EDB)	µg/L	ND<0.19	ND<0.19	ND<0.49	ND<0.19	ND<0.19	ND<0.49	ND<0.19	ND<0.19	ND<0.49	ND<0.19	ND<0.19	ND<0.49
1,2-Dichlorobenzene	µg/L	ND<0.12	ND<0.12	ND<1.1	ND<0.12	ND<0.12	ND<1.1	ND<0.12	ND<0.12	ND<1.1	ND<0.12	ND<0.12	ND<1.1
1,2-Dichloroethane (EDC)	µg/L	ND<0.10	ND<0.10	ND<0.26	ND<0.10	ND<0.10	ND<0.26	ND<0.10	ND<0.10	ND<0.26	ND<0.10	ND<0.10	ND<0.26
1,2-Dichloropropane	µg/L	ND<0.16	ND<0.16	ND<0.36	ND<0.16	ND<0.16	ND<0.36	ND<0.16	ND<0.16	ND<0.36	ND<0.16	ND<0.16	ND<0.36
1,3,5-Trimethylbenzene	µg/L	ND<0.090	ND<0.090	ND<0.18	ND<0.090	ND<0.090	ND<0.18	ND<0.090	ND<0.090	ND<0.18	**0.12 J**	ND<0.090	ND<0.18
1,3-Dichlorobenzene	µg/L	ND<0.15	ND<0.15	ND<1.2	ND<0.15	ND<0.15	ND<1.2	ND<0.15	ND<0.15	ND<1.2	ND<0.15	ND<0.15	ND<1.2
1,3-Dichloropropane	µg/L	ND<0.11	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.26
1,4-Dichlorobenzene	µg/L	ND<0.14	ND<0.14	ND<1.1	ND<0.14	ND<0.14	ND<1.1	ND<0.14	ND<0.14	ND<1.1	ND<0.14	ND<0.14	ND<1.1
2,2-Dichloropropane	µg/L	ND<0.16	ND<0.16	ND<0.28	ND<0.16	ND<0.16	ND<0.28	ND<0.16	ND<0.16	ND<0.28	ND<0.16	ND<0.16	ND<0.28
2-Butanone (MEK)	µg/L	ND<0.66	**1.5 J**	ND<6.7	ND<0.66	**1.4 J**	ND<6.7	ND<0.66	ND<0.66	ND<6.7	ND<0.66	ND<0.66	ND<6.7
2-Chlorotoluene	µg/L	ND<0.11	ND<0.11	ND<0.18	ND<0.11	ND<0.11	ND<0.18	ND<0.11	ND<0.11	ND<0.18	ND<0.11	ND<0.11	ND<0.18
2-Hexanone	µg/L	ND<0.49	ND<0.49	ND<5.4	ND<0.49	ND<0.49	ND<5.4	ND<0.49	ND<0.49	ND<5.4	ND<0.49	ND<0.49	ND<5.4
4-Chlorotoluene	µg/L	ND<0.14	ND<0.14	ND<0.27	ND<0.14	ND<0.14	ND<0.27	ND<0.14	ND<0.14	ND<0.27	ND<0.14	ND<0.14	ND<0.27
4-Isopropyltoluene	µg/L	ND<0.060	ND<0.060	ND<0.31	ND<0.060	ND<0.060	ND<0.31	ND<0.060	ND<0.060	ND<0.31	**0.064 J**	ND<0.060	ND<0.31
4-Methyl-2-pentanone (MIBK)	µg/L	ND<0.56	ND<0.56	ND<3.7	ND<0.56	ND<0.56	ND<3.7	**3.9 J**	ND<0.56	ND<3.7	ND<0.56	ND<0.56	ND<3.7
Acetone	µg/L	ND<0.91	ND<0.91	ND<6.3	ND<0.91	ND<0.91	ND<6.3	**4.7 J**	**4.5 J**	ND<6.3	ND<0.91	ND<0.91	ND<6.3
Benzene	µg/L	ND<0.13	ND<0.13	ND<0.14	ND<0.13	ND<0.13	ND<0.14	ND<0.13	ND<0.13	ND<0.14	ND<0.13	ND<0.13	ND<0.14
Bromobenzene	µg/L	ND<0.13	ND<0.13	ND<0.27	ND<0.13	ND<0.13	ND<0.27	ND<0.13	ND<0.13	ND<0.27	ND<0.13	ND<0.13	ND<0.27
Bromochloromethane	µg/L	ND<0.17	ND<0.17	ND<0.70	ND<0.17	ND<0.17	ND<0.70	ND<0.17	ND<0.17	ND<0.70	ND<0.17	ND<0.17	ND<0.70
Bromodichloromethane	µg/L	ND<0.14	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.24
Bromoform	µg/L	ND<0.18	ND<0.18	ND<0.66	ND<0.18	ND<0.18	ND<0.66	ND<0.18	ND<0.18	ND<0.66	ND<0.18	ND<0.18	ND<0.66
Bromomethane	µg/L	ND<0.090	ND<0.090	ND<5.1	ND<0.090	ND<0.090	ND<5.1	ND<0.090	ND<0.090	ND<5.1	ND<0.090	ND<0.090	ND<5.1
Carbon Disulfide	µg/L	ND<0.14	ND<0.14	ND<0.40	ND<0.14	ND<0.14	ND<0.40	**0.60 J**	ND<0.14	ND<0.40	ND<0.14	ND<0.14	ND<0.40
Carbon Tetrachloride	µg/L	ND<0.13	ND<0.13	ND<0.32	ND<0.13	ND<0.13	ND<0.32	ND<0.13	ND<0.13	ND<0.32	ND<0.13	ND<0.13	ND<0.32
Chlorobenzene	µg/L	ND<0.12	ND<0.12	ND<0.14	ND<0.12	ND<0.12	ND<0.14	ND<0.12	ND<0.12	ND<0.14	ND<0.12	ND<0.12	ND<0.14
Chloroform	µg/L	ND<0.13	ND<0.13	ND<0.24	ND<0.13	ND<0.13	ND<0.24	ND<0.13	ND<0.13	ND<0.24	ND<0.13	ND<0.13	ND<0.24
Chloromethane	µg/L	ND<0.24	ND<0.24	ND<0.63	ND<0.24	ND<0.24	ND<0.63	ND<0.24	ND<0.24	ND<0.63	ND<0.24	ND<0.24	ND<0.63
Chloroethane	µg/L	ND<0.18	ND<0.18	ND<0.69	ND<0.18	ND<0.18	ND<0.69	ND<0.18	ND<0.18	ND<0.69	ND<0.18	ND<0.18	ND<0.69
cis-1,2-Dichloroethene	µg/L	ND<0.14	ND<0.14	ND<0.35	ND<0.14	ND<0.14	ND<0.35	**320 D**	**68**	**58**	**0.69**	**0.46 J**	ND<0.35
cis-1,3-Dichloropropene	µg/L	ND<0.14	ND<0.14	ND<0.31	ND<0.14	ND<0.14	ND<0.31	ND<0.14	ND<0.14	ND<0.31	ND<0.14	ND<0.14	ND<0.31
Dibromochloromethane	µg/L	ND<0.12	ND<0.12	ND<0.41	ND<0.12	ND<0.12	ND<0.41	ND<0.12	ND<0.12	ND<0.41	ND<0.12	ND<0.12	ND<0.41
Dibromomethane	µg/L	ND<0.15	ND<0.15	ND<0.57	ND<0.15	ND<0.15	ND<0.57	ND<0.15	ND<0.15	ND<0.57	ND<0.15	ND<0.15	ND<0.57
Dichlorodifluoromethane (CFC 12)	µg/L	ND<0.15	ND<0.15	ND<0.89	ND<0.15	ND<0.15	ND<0.89	ND<0.15	ND<0.15	ND<0.89	ND<0.15	ND<0.15	ND<0.89
Dichloromethane (Methylene Choride)	µg/L	ND<0.19	ND<0.19	ND<4.3	ND<0.19	ND<0.19	ND<4.3	ND<0.19	ND<0.19	ND<4.3	ND<0.19	**0.26 J**	ND<4.3

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Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

Parameter	Units	MWCL-3			MWCL-4			MWCL-5			MWCL-6		
		8/31/2006	1/11/2007	8/24/2007	8/31/2006	1/11/2007	8/22/2007	9/1/2006	1/12/2007	8/24/2007	8/31/2006	1/11/2007	8/24/2007
VOCs													
Ethylbenzene	µg/L	ND<0.11	ND<0.11	ND<0.23	ND<0.11	ND<0.11	ND<0.23	ND<0.11	ND<0.11	ND<0.23	ND<0.11	ND<0.11	ND<0.23
Hexachlorobutadiene	µg/L	ND<0.26	ND<0.26	ND<1.2	ND<0.26	ND<0.26	ND<1.2	ND<0.26	ND<0.26	ND<1.2	ND<0.26	ND<0.26	ND<1.2
Isopropylbenzene	µg/L	ND<0.090	ND<0.090	ND<0.26	ND<0.090	ND<0.090	ND<0.26	ND<0.090	ND<0.090	ND<0.26	ND<0.090	ND<0.090	ND<0.26
Methyl tert-Butyl Ether	µg/L	ND<0.11	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.26
Naphthalene	µg/L	ND<0.10	ND<0.10	ND<1.4	ND<0.10	ND<0.10	ND<1.4	ND<0.10	ND<0.10	ND<1.4	**130**	**3.1**	ND<1.4
n-Butylbenzene	µg/L	ND<0.10	ND<0.10	ND<0.29	ND<0.10	ND<0.10	ND<0.29	ND<0.10	ND<0.10	ND<0.29	**0.36**	ND<0.10	ND<0.29
n-Propylbenzene	µg/L	ND<0.090	ND<0.090	ND<0.12	ND<0.090	ND<0.090	ND<0.12	ND<0.090	ND<0.090	ND<0.12	ND<0.090	ND<0.090	ND<0.12
sec-Butylbenzene	µg/L	ND<0.090	ND<0.090	ND<0.32	ND<0.090	ND<0.090	ND<0.32	ND<0.090	ND<0.090	ND<0.32	ND<0.090	ND<0.090	ND<0.32
Styrene	µg/L	ND<0.070	ND<0.070	ND<0.29	ND<0.070	ND<0.070	ND<0.29	ND<0.070	ND<0.070	ND<0.29	ND<0.070	ND<0.070	ND<0.29
tert-Butylbenzene	µg/L	ND<0.080	ND<0.080	ND<0.33	ND<0.080	ND<0.080	ND<0.33	ND<0.080	ND<0.080	ND<0.33	ND<0.080	ND<0.080	ND<0.33
Tetrachloroethene (PCE)	µg/L	ND<0.090	ND<0.090	ND<0.35	ND<0.090	ND<0.090	ND<0.35	ND<0.090	ND<0.090	ND<0.35	ND<0.090	ND<0.090	ND<0.35
Toluene	µg/L	**0.15 J**	**0.15 J**	ND<0.27	ND<0.13	ND<0.13	ND<0.27	ND<0.13	**0.27 J**	ND<0.27	ND<0.13	ND<0.13	ND<0.27
trans-1,2-Dichloroethene	µg/L	ND<0.16	ND<0.16	ND<0.38	ND<0.16	ND<0.16	ND<0.38	**1.1**	ND<0.16	ND<0.38	**0.92**	**0.58**	ND<0.38
trans-1,3-Dichloropropene	µg/L	ND<0.090	ND<0.090	ND<0.49	ND<0.090	ND<0.090	ND<0.49	ND<0.090	ND<0.090	ND<0.49	ND<0.090	ND<0.090	ND<0.49
Trichloroethene (TCE)	µg/L	ND<0.14	ND<0.14	ND<0.37	ND<0.14	ND<0.14	ND<0.37	ND<0.14	ND<0.14	ND<0.37	ND<0.14	ND<0.14	ND<0.37
Trichlorofluoromethane (CFC 11)	µg/L	ND<0.18	ND<0.18	ND<0.21	ND<0.18	ND<0.18	ND<0.21	ND<0.18	ND<0.18	ND<0.21	ND<0.18	ND<0.18	ND<0.21
Vinyl Acetate	µg/L	ND<0.24	ND<0.24	ND<3.7	ND<0.24	ND<0.24	ND<3.7	ND<0.24	ND<0.24	ND<3.7	ND<0.24	ND<0.24	ND<3.7
Vinyl Chloride	µg/L	ND<0.16	ND<0.16	ND<0.36	ND<0.16	ND<0.16	ND<0.36	**1.1**	ND<0.16	ND<0.36	**0.92**	**0.46 J**	ND<0.36
Xylenes, Total	µg/L	ND<0.10	ND<0.10	ND<0.54	ND<0.10	ND<0.10	ND<0.54	ND<0.10	ND<0.10	ND<0.54	**0.33 J**	ND<0.10	ND<0.54
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics (C6-C12)	mg/L	ND<0.50	-	ND	ND<0.50	-	ND	ND<0.50	-	ND	ND<0.50	-	ND
Diesel Range Organics (C13-C22)	mg/L	ND<0.44	-	ND	ND<0.44	-	ND	ND<0.44	-	ND	**0.53 J**	-	ND
Heavy Range Organics (C24-C36)	mg/L	ND<0.50	-	ND	ND<0.50	-	ND	ND<0.50	-	ND	ND<0.50	-	ND
C7 - C36 Total	mg/L	-	ND<0.50	ND<480	-	ND<0.50	ND<480	-	ND<0.50	ND<480	-	ND<0.50	ND<480
Polychlorinated Biphenyls (PCBs)													
Aroclor 1016	µg/L	-	-	-	ND<0.24	-	-	ND<0.24	-	-	ND<0.24	-	-
Aroclor 1221	µg/L	-	-	-	ND<0.22	-	-	ND<0.22	-	-	ND<0.22	-	-
Aroclor 1232	µg/L	-	-	-	ND<0.2	-	-	ND<0.2	-	-	ND<0.2	-	-
Aroclor 1242	µg/L	-	-	-	ND<0.043	-	-	ND<0.043	-	-	ND<0.043	-	-
Aroclor 1248	µg/L	-	-	-	ND<0.12	-	-	ND<0.12	-	-	ND<0.12	-	-
Aroclor 1254	µg/L	-	-	-	ND<0.063	-	-	ND<0.063	-	-	ND<0.063	-	-
Aroclor 1260	µg/L	-	-	-	ND<0.081	-	-	ND<0.081	-	-	ND<0.081	-	-

Notes:
ND< - Analyte not detected above associated method detection limit (MDL)
- Not analyzed
Bold - Analyted detected
J - Analyte was detected at a concentration below the reporting limit and above the MDL; reported value is estimated

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Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

		MWCL-7		MWCL-8		QCEB1	QCEB2	QCEB	QCEB	QCEB	QCEB	QCEB
Parameter	**Units**	**1/12/2007**	**8/24/2007**	**1/12/2007**	**8/24/2007**	**8/31/2006**	**9/1/2006**	**12/20/2006**	**1/9/2007**	**8/22/2007**	**8/23/2007**	**8/24/2007**
Dissolved Metals												
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (SVOCs)												
1,2,4-Trichlorobenzene	µg/L	ND<0.20	ND<1.3	ND<0.20	ND<1.3	ND<0.20	ND<0.20	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND<0.17	ND<1.1	ND<0.17	ND<1.1	ND<0.17	ND<0.17	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	ND<0.20	ND<1.2	ND<0.20	ND<1.2	ND<0.20	ND<0.20	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND<0.24	ND<1.1	ND<0.24	ND<1.1	ND<0.24	ND<0.24	-	-	-	-	-
1,4-Dioxane	µg/L	**0.68 J**	-	ND<0.41	-	ND<0.41	ND<0.41	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	ND<0.28	ND<0.97	ND<0.28	ND<0.97	ND<0.28	ND<0.28	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	ND<0.27	ND<1.2	ND<0.27	ND<1.2	ND<0.27	ND<0.27	-	-	-	-	-
2,4-Dichlorophenol	µg/L	ND<0.23	ND<1.1	ND<0.23	ND<1.1	ND<0.23	ND<0.23	-	-	-	-	-
2,4-Dimethylphenol	µg/L	ND<0.83	ND<1.2	ND<0.83	ND<1.2	ND<0.83	ND<0.83	-	-	-	-	-
2,4-Dinitrophenol	µg/L	ND<10	ND<2.6	ND<10	ND<2.6	ND<10	ND<10	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	ND<0.30	ND<1.0	ND<0.30	ND<1.0	ND<0.30	ND<0.30	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	ND<0.30	ND<1.1	ND<0.30	ND<1.1	ND<0.30	ND<0.30	-	-	-	-	-
2-Chloronaphthalene	µg/L	ND<0.22	ND<1.3	ND<0.22	ND<1.3	ND<0.22	ND<0.22	-	-	-	-	-
2-Chlorophenol	µg/L	ND<0.24	ND<1.0	ND<0.24	ND<1.0	ND<0.24	ND<0.24	-	-	-	-	-
2-Methyl-4,6-dinitrophenol	µg/L	ND<0.20	ND<3.4	ND<0.20	ND<3.4	ND<0.20	ND<0.20	-	-	-	-	-
2-Methylnaphthalene	µg/L	ND<0.18	ND<1.2	ND<0.18	ND<1.2	ND<0.18	ND<0.18	-	-	-	-	-
2-Methylphenol	µg/L	ND<0.32	ND<1.1	ND<0.32	ND<1.1	ND<0.32	ND<0.32	-	-	-	-	-
2-Nitroaniline	µg/L	ND<0.27	ND<1.0	ND<0.27	ND<1.0	ND<0.27	ND<0.27	-	-	-	-	-
2-Nitrophenol	µg/L	ND<0.26	ND<1.2	ND<0.26	ND<1.2	ND<0.26	ND<0.26	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	ND<0.84	ND<1.3	ND<0.84	ND<1.3	ND<0.84	ND<0.84	-	-	-	-	-
3-Nitroaniline	µg/L	ND<0.29	ND<1.2	ND<0.29	ND<1.2	ND<0.29	ND<0.29	-	-	-	-	-
4-Bromophenyl Phenyl Ether	µg/L	ND<0.18	ND<1.2	ND<0.18	ND<1.2	ND<0.18	ND<0.18	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	ND<0.32	ND<1.2	ND<0.32	ND<1.2	ND<0.32	ND<0.32	-	-	-	-	-
4-Chloroaniline	µg/L	ND<0.36	ND<1.3	ND<0.36	ND<1.3	ND<0.36	ND<0.36	-	-	-	-	-
4-Chlorophenyl Phenyl Ether	µg/L	ND<0.21	ND<1.2	ND<0.21	ND<1.2	ND<0.21	ND<0.21	-	-	-	-	-
4-Methylphenol	µg/L	**7.0**	ND<1.0	ND<0.28	ND<1.0	ND<0.28	ND<0.28	-	-	-	-	-
4-Nitroaniline	µg/L	ND<0.36	ND<2.4	ND<0.36	ND<2.4	ND<0.36	ND<0.36	-	-	-	-	-
4-Nitrophenol	µg/L	ND<20	ND<0.86	ND<20	ND<0.86	ND<20	ND<20	-	-	-	-	-

Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

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Parameter	Units	MWCL-7		MWCL-8		QCEB1	QCEB2	QCEB	QCEB	QCEB	QCEB	QCEB
		1/12/2007	8/24/2007	1/12/2007	8/24/2007	8/31/2006	9/1/2006	12/20/2006	1/9/2007	8/22/2007	8/23/2007	8/24/2007
SVOCs												
Acenaphthene	µg/L	ND<0.15	ND<1.4	ND<0.15	ND<1.4	ND<0.15	ND<0.15	-	-	-	-	-
Acenaphthylene	µg/L	ND<0.23	ND<1.4	ND<0.23	ND<1.4	ND<0.23	ND<0.23	-	-	-	-	-
Aniline	µg/L	ND<0.34	ND<1.2	ND<0.34	ND<1.2	ND<0.34	ND<0.34	-	-	-	-	-
Anthracene	µg/L	ND<0.21	ND<1.5	ND<0.21	ND<1.5	ND<0.21	ND<0.21	-	-	-	-	-
Benz(a)anthracene	µg/L	ND<0.21	ND<1.1	ND<0.21	ND<1.1	ND<0.21	ND<0.21	-	-	-	-	-
Benzo(a)pyrene	µg/L	ND<0.54	ND<0.88	ND<0.54	ND<0.88	ND<0.54	ND<0.54	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	ND<0.42	ND<1.2	ND<0.42	ND<1.2	ND<0.42	ND<0.42	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	ND<0.74	ND<0.71	ND<0.74	ND<0.71	ND<0.74	ND<0.74	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	ND<0.32	ND<1.7	ND<0.32	ND<1.7	ND<0.32	ND<0.32	-	-	-	-	-
Benzoic acid	µg/L	ND<20	ND<0.43	ND<20	ND<0.43	ND<20	ND<20	-	-	-	-	-
Benzyl alcohol	µg/L	ND<0.22	ND<1.0	ND<0.22	ND<1.0	ND<0.22	ND<0.22	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	ND<0.32	ND<1.2	ND<0.32	ND<1.2	ND<0.32	ND<0.32	-	-	-	-	-
bis(2-Chloroethyl) Ether	µg/L	ND<0.24	ND<1.0	ND<0.24	ND<1.0	ND<0.24	ND<0.24	-	-	-	-	-
bis(2-Chloroisopropyl) Ether	µg/L	ND<0.24	ND<1.5	ND<0.24	ND<1.5	ND<0.24	ND<0.24	-	-	-	-	-
Bis(2-ethylhexyl) Phthalate	µg/L	**0.51 J**	ND<1.0	**8.7**	ND<1.0	**0.99 J**	ND<0.30	-	-	-	-	-
Butyl Benzyl Phthalate	µg/L	ND<0.48	ND<1.0	ND<0.48	ND<1.0	ND<0.48	ND<0.48	-	-	-	-	-
Chrysene	µg/L	ND<0.22	ND<1.3	ND<0.22	ND<1.3	ND<0.22	ND<0.22	-	-	-	-	-
Di-n-butyl Phthalate	µg/L	ND<0.25	ND<1.5	ND<0.62	ND<1.5	**0.28 J**	ND<0.25	-	-	-	-	-
Di-n-octyl Phthalate	µg/L	ND<0.33	ND<1.0	ND<0.22	ND<1.0	ND<0.33	ND<0.33	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	ND<0.62	ND<0.82	**1.4 J**	ND<0.82	ND<0.62	ND<0.62	-	-	-	-	-
Dibenzofuran	µg/L	ND<0.22	ND<1.4	ND<0.26	ND<1.4	ND<0.22	ND<0.22	-	-	-	-	-
Diethyl Phthalate	µg/L	ND<0.28	ND<1.4	**0.43 J**	ND<1.4	ND<0.28	ND<0.28	-	-	-	-	-
Dimethyl Phthalate	µg/L	ND<0.26	ND<1.3	ND<0.33	ND<1.3	ND<0.26	ND<0.26	-	-	-	-	-
Fluoranthene	µg/L	ND<0.21	ND<1.5	ND<0.21	ND<1.5	ND<0.21	ND<0.21	-	-	-	-	-
Fluorene	µg/L	ND<0.22	ND<1.4	ND<0.22	ND<1.4	ND<0.22	ND<0.22	-	-	-	-	-
Hexachlorobenzene	µg/L	ND<0.21	ND<1.2	ND<0.21	ND<1.2	ND<0.21	ND<0.21	-	-	-	-	-
Hexachlorobutadiene	µg/L	ND<0.22	ND<1.2	ND<0.22	ND<1.2	ND<0.22	ND<0.22	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	ND<1.8	ND<0.44	ND<1.8	ND<0.44	ND<1.8	ND<1.8	-	-	-	-	-
Hexachloroethane	µg/L	ND<2.5	ND<0.98	ND<2.5	ND<0.98	ND<2.5	ND<2.5	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	ND<0.65	ND<0.83	ND<0.65	ND<0.83	ND<0.65	ND<0.65	-	-	-	-	-
Isophorone	µg/L	ND<0.30	ND<1.2	ND<0.30	ND<1.2	ND<0.30	ND<0.30	-	-	-	-	-
N-Nitrosodimethylamine	µg/L	ND<0.48	ND<1.1	ND<0.21	ND<1.1	ND<0.48	ND<0.48	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	ND<0.28	ND<1.3	ND<0.26	ND<1.3	ND<0.28	ND<0.28	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	ND<0.23	ND<1.4	ND<0.48	ND<1.4	ND<0.23	ND<0.23	-	-	-	-	-
Naphthalene	µg/L	ND<0.21	ND<1.4	ND<0.28	ND<1.4	ND<0.21	ND<0.21	-	-	-	-	-
Nitrobenzene	µg/L	ND<0.26	ND<1.3	ND<0.23	ND<1.3	ND<0.26	ND<0.26	-	-	-	-	-
Pentachlorophenol	µg/L	ND<0.63	ND<0.75	ND<0.63	ND<0.75	ND<0.63	ND<0.63	-	-	-	-	-
Phenanthrene	µg/L	ND<0.22	ND<1.5	ND<0.22	ND<1.5	ND<0.22	ND<0.22	-	-	-	-	-
Phenol	µg/L	ND<0.11	ND<1.2	ND<0.11	ND<1.2	ND<0.11	ND<0.11	-	-	-	-	-
Pyrene	µg/L	ND<0.33	ND<1.4	ND<0.33	ND<1.4	ND<0.33	ND<0.33	-	-	-	-	-
Pyridine	µg/L	ND<0.33	ND<1.4	ND<0.33	ND<1.4	ND<0.33	ND<0.33	-	-	-	-	-

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Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

Parameter	Units	MWCL-7		MWCL-8		QCEB1	QCEB2	QCEB	QCEB	QCEB	QCEB	QCEB
		1/12/2007	8/24/2007	1/12/2007	8/24/2007	8/31/2006	9/1/2006	12/20/2006	1/9/2007	8/22/2007	8/23/2007	8/24/2007
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	µg/L	ND<0.19	ND<0.34	ND<0.19	ND<0.34	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.34	ND<0.34	ND<0.34
1,1,1-Trichloroethane (TCA)	µg/L	ND<0.16	ND<0.26	ND<0.16	ND<0.26	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.26	ND<0.26	ND<0.26
1,1,2,2-Tetrachloroethane	µg/L	ND<0.20	ND<0.30	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.30	ND<0.30	ND<0.30
1,1,2-Trichloroethane	µg/L	ND<0.15	ND<0.49	ND<0.15	ND<0.49	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.49	ND<0.49	ND<0.49
1,1,2-Trichlorotrifluoroethane	µg/L	ND<0.15	ND<0.68	ND<0.15	ND<0.68	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.68	ND<0.68	ND<0.68
1,1-Dichloroethane (1,1-DCA)	µg/L	ND<0.11	ND<0.27	ND<0.11	ND<0.27	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.27	ND<0.27	ND<0.27
1,1-Dichloroethene (1,1-DCE)	µg/L	ND<0.15	ND<0.29	ND<0.15	ND<0.29	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.29	ND<0.29	ND<0.29
1,1-Dichloropropene	µg/L	ND<0.14	ND<0.24	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.24	ND<0.24	ND<0.24
1,2,3-Trichlorobenzene	µg/L	ND<0.15	ND<0.43	ND<0.15	ND<0.43	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.43	ND<0.43	ND<0.43
1,2,3-Trichloropropane	µg/L	ND<0.20	ND<1.4	ND<0.20	ND<1.4	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<1.4	ND<1.4	ND<1.4
1,2,4-Trichlorobenzene	µg/L	ND<0.11	ND<1.3	ND<0.11	ND<1.3	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.33	ND<0.33	ND<0.33
1,2,4-Trimethylbenzene	µg/L	ND<0.080	ND<0.23	ND<0.080	ND<0.23	ND<0.080	ND<0.080	ND<0.080	ND<0.080	ND<0.23	ND<0.23	ND<0.23
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND<0.95	ND<3.2	ND<0.95	ND<3.2	ND<0.95	ND<0.95	ND<0.95	ND<0.95	ND<3.2	ND<3.2	ND<3.2
1,2-Dibromoethane (EDB)	µg/L	ND<0.19	ND<0.49	ND<0.19	ND<0.49	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<0.49	ND<0.49	ND<0.49
1,2-Dichlorobenzene	µg/L	ND<0.12	ND<1.1	ND<0.12	ND<1.1	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.33	ND<0.33	ND<0.33
1,2-Dichloroethane (EDC)	µg/L	ND<0.10	ND<0.26	ND<0.10	ND<0.26	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.26	ND<0.26	ND<0.26
1,2-Dichloropropane	µg/L	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.36	ND<0.36	ND<0.36
1,3,5-Trimethylbenzene	µg/L	ND<0.090	ND<0.18	ND<0.090	ND<0.18	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.18	ND<0.18	ND<0.18
1,3-Dichlorobenzene	µg/L	ND<0.15	ND<1.2	ND<0.15	ND<1.2	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.23	ND<0.23	ND<0.23
1,3-Dichloropropane	µg/L	ND<0.11	ND<0.26	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.26	ND<0.26	ND<0.26
1,4-Dichlorobenzene	µg/L	ND<0.14	ND<1.1	ND<0.14	ND<1.1	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.22	ND<0.22	ND<0.22
2,2-Dichloropropane	µg/L	ND<0.16	ND<0.28	ND<0.16	ND<0.28	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.28	ND<0.28	ND<0.28
2-Butanone (MEK)	µg/L	ND<0.66	ND<6.7	ND<0.66	ND<6.7	ND<0.66	ND<0.66	**1.2 J**	**1.5 J**	ND<6.7	ND<6.7	ND<6.7
2-Chlorotoluene	µg/L	ND<0.11	ND<0.18	ND<0.11	ND<0.18	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.18	ND<0.18	ND<0.18
2-Hexanone	µg/L	ND<0.49	ND<5.4	ND<0.49	ND<5.4	ND<0.49	ND<0.49	ND<0.49	ND<0.49	ND<5.4	ND<5.4	ND<5.4
4-Chlorotoluene	µg/L	ND<0.14	ND<0.27	ND<0.14	ND<0.27	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.27	ND<0.27	ND<0.27
4-Isopropyltoluene	µg/L	ND<0.060	ND<0.31	ND<0.060	ND<0.31	ND<0.060	ND<0.060	ND<0.060	ND<0.060	ND<0.31	ND<0.31	ND<0.31
4-Methyl-2-pentanone (MIBK)	µg/L	ND<0.56	ND<3.7	ND<0.56	ND<3.7	ND<0.56	ND<0.56	ND<0.56	ND<0.56	ND<3.7	ND<3.7	ND<3.7
Acetone	µg/L	**1.1 J**	ND<6.3	ND<0.91	ND<6.3	ND<0.91	ND<0.91	**1.6 J**	ND<0.91	ND<6.3	ND<6.3	ND<6.3
Benzene	µg/L	ND<0.13	ND<0.14	ND<0.13	ND<0.14	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.14	ND<0.14	ND<0.14
Bromobenzene	µg/L	ND<0.13	ND<0.27	ND<0.13	ND<0.27	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.27	ND<0.27	ND<0.27
Bromochloromethane	µg/L	ND<0.17	ND<0.70	ND<0.17	ND<0.70	ND<0.17	ND<0.17	ND<0.17	ND<0.17	ND<0.70	ND<0.70	ND<0.70
Bromodichloromethane	µg/L	ND<0.14	ND<0.24	ND<0.14	ND<0.24	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.24	ND<0.24	ND<0.24
Bromoform	µg/L	ND<0.18	ND<0.66	ND<0.18	ND<0.66	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.66	ND<0.66	ND<0.66
Bromomethane	µg/L	ND<0.090	ND<5.1	ND<0.090	ND<5.1	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<5.1	ND<5.1	ND<5.1
Carbon Disulfide	µg/L	ND<0.14	ND<0.40	ND<0.14	ND<0.40	ND<0.14	**0.46 J**	ND<0.14	ND<0.14	ND<0.40	ND<0.40	ND<0.40
Carbon Tetrachloride	µg/L	ND<0.13	ND<0.32	ND<0.13	ND<0.32	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.32	ND<0.32	ND<0.32
Chlorobenzene	µg/L	ND<0.12	ND<0.14	ND<0.12	ND<0.14	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.14	ND<0.14	ND<0.14
Chloroform	µg/L	ND<0.13	ND<0.24	ND<0.24	ND<0.24	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.24	ND<0.24	ND<0.24
Chloromethane	µg/L	ND<0.24	ND<0.63	ND<0.18	ND<0.63	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<0.63	ND<0.63	ND<0.63
Chloroethane	µg/L	ND<0.18	ND<0.69	ND<0.13	ND<0.69	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.69	ND<0.69	ND<0.69
cis-1,2-Dichloroethene	µg/L	**0.49 J**	**4.6**	ND<0.14	ND<0.35	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.35	ND<0.35	ND<0.35
cis-1,3-Dichloropropene	µg/L	ND<0.14	ND<0.31	ND<0.14	ND<0.31	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.31	ND<0.31	ND<0.31
Dibromochloromethane	µg/L	ND<0.12	ND<0.41	ND<0.12	ND<0.41	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.41	ND<0.41	ND<0.41
Dibromomethane	µg/L	ND<0.15	ND<0.57	ND<0.15	ND<0.57	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.57	ND<0.57	ND<0.57
Dichlorodifluoromethane (CFC 12)	µg/L	ND<0.15	ND<0.89	ND<0.15	ND<0.89	ND<0.15	ND<0.15	ND<0.15	ND<0.15	ND<0.89	ND<0.89	ND<0.89
Dichloromethane (Methylene Choride)	µg/L	ND<0.19	ND<4.3	ND<0.19	ND<4.3	ND<0.19	ND<0.19	**0.42 J**	ND<0.19	ND<4.3	ND<4.3	ND<4.3

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Table 4-6
Monitor Well/Hydropunch Groundwater Analytical Results, Convair Lagoon
2701 North Harbor Drive, San Diego, California

Parameter	Units	MWCL-7		MWCL-8		QCEB1	QCEB2	QCEB	QCEB	QCEB	QCEB	QCEB
		1/12/2007	8/24/2007	1/12/2007	8/24/2007	8/31/2006	9/1/2006	12/20/2006	1/9/2007	8/22/2007	8/23/2007	8/24/2007
VOCs												
Ethylbenzene	µg/L	ND<0.11	ND<0.23	ND<0.11	ND<0.23	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.23	ND<0.23	ND<0.23
Hexachlorobutadiene	µg/L	ND<0.26	ND<1.2	ND<0.26	ND<1.2	ND<0.26	ND<0.26	ND<0.26	ND<0.26	-	-	-
Isopropylbenzene	µg/L	ND<0.090	ND<0.26	ND<0.090	ND<0.26	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.26	ND<0.26	ND<0.26
Methyl tert-Butyl Ether	µg/L	ND<0.11	ND<0.26	ND<0.11	ND<0.26	ND<0.11	ND<0.11	ND<0.11	ND<0.11	ND<0.26	ND<0.26	ND<0.26
Naphthalene	µg/L	ND<0.10	ND<1.4	ND<0.10	ND<1.4	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.50	ND<0.50	ND<0.50
n-Butylbenzene	µg/L	ND<0.10	ND<0.29	ND<0.10	ND<0.29	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.29	ND<0.29	ND<0.29
n-Propylbenzene	µg/L	ND<0.090	ND<0.12	ND<0.090	ND<0.12	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.12	ND<0.12	ND<0.12
sec-Butylbenzene	µg/L	ND<0.090	ND<0.32	ND<0.090	ND<0.32	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.32	ND<0.32	ND<0.32
Styrene	µg/L	ND<0.070	ND<0.29	ND<0.070	ND<0.29	ND<0.070	ND<0.070	ND<0.070	ND<0.070	ND<0.29	ND<0.29	ND<0.29
tert-Butylbenzene	µg/L	ND<0.080	ND<0.33	ND<0.080	ND<0.33	ND<0.080	ND<0.080	ND<0.080	ND<0.080	ND<0.33	ND<0.33	ND<0.33
Tetrachloroethene (PCE)	µg/L	ND<0.090	ND<0.35	ND<0.090	ND<0.35	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.35	ND<0.35	ND<0.35
Toluene	µg/L	**0.14 J**	ND<0.27	ND<0.13	ND<0.27	ND<0.13	ND<0.13	**0.19 J**	ND<0.13	ND<0.27	ND<0.27	ND<0.27
trans-1,2-Dichloroethene	µg/L	ND<0.16	ND<0.38	ND<0.16	ND<0.38	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.38	ND<0.38	ND<0.38
trans-1,3-Dichloropropene	µg/L	ND<0.090	ND<0.49	ND<0.090	ND<0.49	ND<0.090	ND<0.090	ND<0.090	ND<0.090	ND<0.49	ND<0.49	ND<0.49
Trichloroethene (TCE)	µg/L	**13**	**6.7**	ND<0.14	ND<0.37	ND<0.14	ND<0.14	ND<0.14	ND<0.14	ND<0.37	ND<0.37	ND<0.37
Trichlorofluoromethane (CFC 11)	µg/L	ND<0.18	ND<0.21	ND<0.18	ND<0.21	ND<0.18	ND<0.18	ND<0.18	ND<0.18	ND<0.21	ND<0.21	ND<0.21
Vinyl Acetate	µg/L	ND<0.24	ND<3.7	ND<0.24	ND<3.7	ND<0.24	ND<0.24	ND<0.24	ND<0.24	ND<3.7	ND<3.7	ND<3.7
Vinyl Chloride	µg/L	ND<0.16	ND<0.36	ND<0.16	ND<0.36	ND<0.16	ND<0.16	ND<0.16	ND<0.16	ND<0.36	ND<0.36	ND<0.36
Xylenes, Total	µg/L	ND<0.10	ND<0.54	ND<0.10	ND<0.54	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.54	ND<0.54	ND<0.54
Total Petroleum Hydrocarbons (TPH)												
Gasoline Range Organics (C6-C12)	mg/L	-	ND	-	ND	ND<0.50	ND<0.50	-	-	-	-	-
Diesel Range Organics (C13-C22)	mg/L	-	ND	-	ND	ND<0.44	ND<0.44	-	-	-	-	-
Heavy Range Organics (C24-C36)	mg/L	-	ND	-	ND	ND<0.50	ND<0.50	-	-	-	-	-
C7 - C36 Total	mg/L	ND<0.50	ND<480	ND<0.50	ND<480	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)												
Aroclor 1016	µg/L	-	-	ND<0.12	ND<0.15	-	-	-	-	-	-	-
Aroclor 1221	µg/L	-	-	ND<0.21	ND<0.10	-	-	-	-	-	-	-
Aroclor 1232	µg/L	-	-	ND<0.22	ND<0.10	-	-	-	-	-	-	-
Aroclor 1242	µg/L	-	-	ND<0.078	ND<0.10	-	-	-	-	-	-	-
Aroclor 1248	µg/L	-	-	ND<0.11	ND<0.10	-	-	-	-	-	-	-
Aroclor 1254	µg/L	-	-	ND<0.040	ND<0.10	-	-	-	-	-	-	-
Aroclor 1260	µg/L	-	-	ND<0.034	ND<0.25	-	-	-	-	-	-	-

Notes:
ND< - Analyte not detected above associated method detection limit (MDL)
- Not analyzed
Bold - Analyted detected
J - Analyte was detected at a concentration below the reporting limit and above the MDL; reported value is estimated

Table 5-1
Risk-Based Concentrations (RBCs)
Construction Worker Exposure Scenario
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters					
	Soil Pathways[a] (mg/kg)		Groundwater Pathways (ug/L)			
			Dermal Contact with GW		GW-to-Outdoor Air	
	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$
Inorganics						
Antimony	--	1.2E+02	--	6.2E+03	--	--
Arsenic	2.1E+01	6.1E+01	1.1E+03	4.6E+03	--	--
Barium	--	3.1E+03	--	1.1E+06	--	--
Beryllium	2.1E+03	4.7E+01	--	3.1E+04	--	--
Cadmium	1.2E+03	9.9E+01	--	7.7E+03	--	--
Chromium	--	4.5E+05	--	2.3E+07	--	--
Chromium, Hexavalent	3.5E+01	5.7E+02	--	2.3E+04	--	--
Cobalt	--	1.4E+02	--	3.1E+05	--	--
Copper	--	1.2E+04	--	6.2E+05	--	--
Cyanide (Amenable)	--	4.8E+03	--	3.1E+05	--	--
Cyanide (Total)	--	4.8E+03	--	3.1E+05	--	--
Mercury	--	7.9E+01	--	4.6E+03	--	--
Molybdenum	--	1.5E+03	--	7.7E+04	--	--
Nickel	2.0E+04	3.4E+02	--	1.5E+06	--	--
Selenium	--	1.5E+03	--	7.7E+04	--	--
Silver	--	1.5E+03	--	7.7E+04	--	--
Thallium	--	2.0E+01	--	1.0E+03	--	--
Vanadium	--	3.0E+02	--	1.5E+04	--	--
Zinc	--	9.0E+04	--	7.7E+06	--	--
PAHs						
2-Methylnaphthalene	--	6.4E+03	--	3.1E+03	--	--
Anthracene	--	6.4E+04	--	--	--	--
Benzo(a)anthracene	1.2E+02	--	6.8E+00	--	--	--
Benzo(a)Pyrene	1.2E+01	--	--	--	--	--
Benzo(b)Fluoranthene	1.2E+02	--	--	--	--	--
Benzo(k)Fluoranthene	1.2E+02	--	--	--	--	--
Benzo(g,h,i)Perylene	--	6.4E+03	--	1.1E+02	--	--
Chrysene	1.2E+03	--	6.8E+01	--	--	--
Dibenz(a,h)anthracene	1.2E+01	--	2.6E-01	--	--	--
Fluoranthene	--	8.5E+03	--	1.2E+03	--	--
Indeno(1,2,3-cd)pyrene	1.2E+02	--	3.8E+00	--	--	--
Phenanthrene	--	6.4E+04	--	1.6E+04	--	--
PCBs						
Aroclor 1016	2.1E+03	1.5E+01	1.5E+02	1.1E+00	--	--
Aroclor 1242	3.0E+01	4.2E+00	9.5E-01	1.4E-01	--	--
Aroclor 1248	3.0E+01	4.2E+00	8.8E-01	1.3E-01	--	--
Aroclor 1254	3.0E+01	4.2E+00	5.5E-01	7.8E-02	--	--
Aroclor 1260	3.0E+01	4.2E+00	8.9E-02	1.3E-02	--	--
Aroclor 1262	3.0E+01	4.2E+00	8.9E-02	1.3E-02	--	--
Perchlorate						
Perchlorate	--	2.2E+02	--	--	--	--

Table 5-1
Risk-Based Concentrations (RBCs)
Construction Worker Exposure Scenario
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters					
	Soil Pathways[a] (mg/kg)		Groundwater Pathways (ug/L)			
			Dermal Contact with GW		GW-to-Outdoor Air	
	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$
SVOCs						
1,4-Dioxane	6.1E+03	2.2E+07	9.1E+05	--	--	--
4-Chloro-3-methylphenol	--	2.4E+04	--	3.3E+04	--	--
Aniline	2.9E+04	1.4E+03	7.6E+05	4.3E+04	--	--
Benzoic Acid	--	9.4E+05	--	7.3E+06	--	--
Bis(2-ethylhexyl)Phthalate	5.4E+04	4.7E+03	2.3E+04	1.9E+03	--	--
Diethylphthalate	--	1.9E+05	--	1.2E+06	--	--
Diisopropyl Ether	--	1.5E+02	--	--	--	--
Dimethyl Phthalate	--	2.4E+06	--	5.0E+07	--	--
Di-n-butylphthalate	--	2.4E+04	--	1.9E+04	--	--
Phenol	--	6.8E+04	--	7.9E+05	--	--
TPH						
TPH - aliphatic; C5-C8	--	8.5E+03	--	1.3E+04	--	--
TPH - aliphatic; C9-C18	--	2.1E+04	--	3.3E+04	--	--
TPH - aliphatic; C≥19	--	4.0E+05	--	6.6E+05	--	--
TPH - aromatic; C5-C8	--	--	--	--	--	--
TPH - aromatic; C9-C18	--	6.2E+03	--	1.0E+04	--	--
TPH - aromatic; C≥19	--	6.4E+03	--	1.0E+04	--	--
VOCs						
1,1,1,2-Tetrachloroethane	1.3E+02	1.4E+02	1.4E+04	1.6E+04	9.8E+03	1.1E+04
1,1,1-Trichloroethane	--	2.4E+02	--	2.2E+05	--	8.0E+04
1,1,2-Trichloroethane	2.7E+01	8.9E+00	1.5E+04	6.1E+03	3.6E+03	1.2E+03
1,1-Dichloroethane	1.1E+02	1.3E+02	2.1E+05	1.7E+05	3.0E+04	3.5E+04
1,1-Dichloroethene	--	1.2E+01	--	4.9E+04	--	4.8E+03
1,1-Dichloropropene	1.8E+03	6.8E+03	1.9E+04	7.5E+04	3.3E+03	1.5E+03
1,2,4-Trichlorobenzene	--	8.7E+01	--	1.1E+03	--	3.4E+03
1,2,4-Trimethylbenzene	--	1.1E+01	--	6.4E+03	--	4.6E+02
1,2-Dibromo-3-chloropropane	1.4E+00	8.1E-01	7.7E+01	4.4E+01	5.0E+01	2.8E+01
1,2-Dichlorobenzene	--	2.7E+02	--	2.0E+04	--	1.7E+04
1,2-Dichloroethane	1.4E+01	2.0E+00	4.0E+04	5.4E+04	2.5E+03	3.6E+02
1,3,5-Trimethylbenzene	--	4.5E+00	--	8.8E+03	--	4.5E+02
1,3-Dichlorobenzene	--	1.4E+02	--	4.8E+03	--	9.1E+03
1,4-Dichlorobenzene	7.4E+01	8.5E+02	2.8E+04	6.6E+03	5.3E+03	6.9E+04
2-Butanone (MEK)	--	9.5E+03	--	7.6E+06	--	9.2E+05
2-Chlorotoluene	--	3.8E+01	--	3.7E+03	--	5.5E+03
Acenaphthene	--	2.8E+03	--	6.1E+03	--	2.4E+04
Acetone	--	4.3E+03	--	2.2E+07	--	4.3E+05
Benzene	6.9E+00	1.7E+01	5.8E+03	3.3E+03	1.5E+03	3.7E+03
Bromochloromethane	--	3.7E+01	--	7.8E+04	--	5.7E+03
Bromodichloromethane	1.5E+01	5.7E+01	9.8E+03	3.6E+04	1.7E+03	6.4E+03
Bromomethane	--	1.1E+00	--	5.6E+03	--	3.4E+02
Carbon Disulfide	--	1.2E+02	--	7.2E+04	--	4.8E+04

Table 5-1
Risk-Based Concentrations (RBCs)
Construction Worker Exposure Scenario
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters					
	Soil Pathways[a] (mg/kg)		Groundwater Pathways (ug/L)			
			Dermal Contact with GW		GW-to-Outdoor Air	
	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$
Carbon Tetrachloride	3.7E+00	8.6E+00	--	--	1.4E+03	3.4E+03
Chlorobenzene	--	5.3E+02	--	7.8E+03	--	7.5E+04
Chloroethane	1.4E+02	4.7E+03	5.0E+05	8.3E+05	4.7E+04	1.7E+06
Chloroform	3.6E+01	8.1E+01	3.5E+04	1.5E+04	9.9E+03	2.3E+04
Chloromethane	--	1.4E+01	--	1.0E+05	--	4.5E+03
cis-1,2-Dichloroethene	--	1.1E+01	--	1.0E+04	--	2.4E+03
Dibromochloromethane	3.2E+01	8.5E+01	1.5E+04	3.9E+04	2.8E+03	7.4E+03
Dibromomethane	--	3.0E+01	--	3.5E+04	--	3.4E+03
Diisopropyl ether	--	1.5E+02	--	--	--	2.7E+04
Ethylbenzene	--	9.9E+02	--	2.4E+04	--	1.4E+05
Ethyl-Tert-Butyl Ether	--	7.9E+01	--	1.5E+03	--	2.1E+04
Fluorene	--	3.0E+03	--	3.0E+03	--	2.1E+04
Freon-113	--	7.2E+03	--	--	--	2.8E+06
Hexachlorobutadiene	2.6E+01	8.7E-01	5.5E+02	1.9E+01	3.5E+03	1.2E+02
Isopropylbenzene	--	1.4E+02	--	1.2E+04	--	2.9E+04
Methyl tertbutyl ether (MTBE)	1.3E+03	4.0E+03	2.1E+06	4.6E+06	1.9E+05	5.6E+05
Methylene Chloride	1.9E+02	1.1E+02	1.7E+05	2.0E+05	4.6E+04	2.6E+04
Naphthalene	7.7E+01	3.6E+01	1.3E+03	4.4E+03	1.8E+03	7.9E+02
n-Butylbenzene	--	1.5E+02	--	2.0E+03	--	1.1E+04
n-Propylbenzene	--	1.5E+02	--	4.4E+03	--	1.1E+04
p-Isopropyltoluene	--	4.4E+02	--	6.4E+03	--	3.1E+04
Pyrene	--	6.0E+03	--	9.8E+02	--	5.8E+04
sec-Butylbenzene	--	1.1E+02	--	2.8E+03	--	1.1E+04
Styrene	--	1.1E+03	--	6.2E+04	--	6.5E+04
tert-Butyl alcohol	--	1.3E+03	--	2.1E+06	--	1.1E+05
tert-Butylbenzene	--	1.3E+02	--	2.4E+03	--	1.1E+04
Tetrachloroethene	2.8E+01	9.4E+00	3.2E+02	2.5E+03	1.0E+04	3.1E+03
Toluene	--	1.2E+02	--	7.7E+04	--	2.0E+04
trans-1,2-Dichloroethene	--	1.8E+01	--	2.1E+04	--	4.8E+03
Trichloroethene	1.1E+02	5.2E+01	4.6E+04	2.6E+02	2.8E+04	4.8E+04
Vinyl Chloride	1.3E+00	1.4E+01	5.8E+03	6.8E+03	5.0E+02	5.5E+03
Xylenes	--	4.0E+02	--	4.4E+04	--	5.0E+04

Notes:

" -- " not applicable; GW: Groundwater

[a] Soil pathways include: incidental soil ingestion, dermal contact, and outdoor inhalation of particulates/vapors

Table 5-2
Risk-Based Concentrations (RBCs)
Trench Worker Exposure Scenario
Site-Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters					
	Soil Pathways[a] (mg/kg)		Groundwater Pathways (ug/L)			
			Dermal Contact with GW		GW-to-Outdoor Air	
	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$
Inorganics						
Antimony	--	3.3E+03	--	2.9E+04	--	--
Arsenic	5.5E+02	2.2E+03	5.4E+03	2.2E+04	--	--
Barium	--	4.6E+05	--	5.1E+06	--	--
Beryllium	1.3E+06	1.1E+04	--	1.5E+05	--	--
Cadmium	7.5E+05	7.8E+03	--	3.7E+04	--	--
Chromium	--	1.2E+07	--	1.1E+08	--	--
Chromium, Hexavalent	2.2E+04	2.5E+04	--	1.1E+05	--	--
Cobalt	--	5.9E+04	--	1.5E+06	--	--
Copper	--	3.3E+05	--	2.9E+06	--	--
Cyanide (Amenable)	--	1.2E+05	--	1.5E+06	--	--
Cyanide (Total)	--	1.2E+05	--	1.5E+06	--	--
Mercury	--	2.4E+03	--	2.2E+04	--	--
Molybdenum	--	4.1E+04	--	3.7E+05	--	--
Nickel	1.2E+07	9.5E+04	--	7.3E+06	--	--
Selenium	--	4.1E+04	--	3.7E+05	--	--
Silver	--	4.1E+04	--	3.7E+05	--	--
Thallium	--	5.4E+02	--	4.8E+03	--	--
Vanadium	--	8.1E+03	--	7.3E+04	--	--
Zinc	--	2.4E+06	--	3.7E+07	--	--
PAHs						
2-Methylnaphthalene	--	1.5E+05	--	1.5E+04	--	--
Anthracene	--	1.5E+06	--	--	--	--
Benzo(a)anthracene	2.9E+03	--	3.2E+01	--	--	--
Benzo(a)Pyrene	2.9E+02	--	--	--	--	--
Benzo(b)Fluoranthene	2.9E+03	--	--	--	--	--
Benzo(k)Fluoranthene	2.9E+03	--	--	--	--	--
Benzo(g,h,i)Perylene	--	1.5E+05	--	5.2E+02	--	--
Chrysene	2.9E+04	--	3.2E+02	--	--	--
Dibenz(a,h)anthracene	2.9E+02	--	1.2E+00	--	--	--
Fluoranthene	--	2.0E+05	--	5.6E+03	--	--
Indeno(1,2,3-cd)pyrene	2.9E+03	--	1.8E+01	--	--	--
Phenanthrene	--	1.5E+06	--	7.6E+04	--	--
PCBs						
Aroclor 1016	5.0E+04	3.5E+02	7.1E+02	5.0E+00	--	--
Aroclor 1242	7.0E+02	1.0E+02	4.5E+00	6.4E-01	--	--
Aroclor 1248	7.0E+02	1.0E+02	4.2E+00	5.9E-01	--	--
Aroclor 1254	7.0E+02	1.0E+02	2.6E+00	3.7E-01	--	--
Aroclor 1260	7.0E+02	1.0E+02	4.2E-01	6.0E-02	--	--
Aroclor 1262	7.0E+02	1.0E+02	4.2E-01	6.0E-02	--	--
Perchlorate						
Perchlorate	--	6.0E+03	--	--	--	--

Table 5-2
Risk-Based Concentrations (RBCs)
Trench Worker Exposure Scenario
Site-Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters					
	Soil Pathways[a] (mg/kg)		Groundwater Pathways (ug/L)			
			Dermal Contact with GW		GW-to-Outdoor Air	
	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$
SVOCs						
1,4-Dioxane	1.5E+05	1.4E+10	4.3E+06	--	--	--
4-Chloro-3-methylphenol	--	5.8E+05	--	1.6E+05	--	--
Aniline	7.1E+05	4.0E+04	3.6E+06	2.0E+05	--	--
Benzoic Acid	--	2.3E+07	--	3.4E+07	--	--
Bis(2-ethylhexyl)Phthalate	1.4E+06	1.2E+05	1.1E+05	9.2E+03	--	--
Diethylphthalate	--	4.7E+06	--	5.6E+06	--	--
Diisopropyl Ether	--	3.0E+03	--	--	--	--
Dimethyl Phthalate	--	5.8E+07	--	2.4E+08	--	--
Di-n-butylphthalate	--	5.8E+05	--	8.9E+04	--	--
Phenol	--	1.7E+06	--	3.8E+06	--	--
TPH						
TPH - aliphatic; C5-C8	--	2.0E+05	--	6.3E+04	--	--
TPH - aliphatic; C9-C18	--	5.0E+05	--	1.6E+05	--	--
TPH - aliphatic; C≥19	--	1.0E+07	--	3.2E+06	--	--
TPH - aromatic; C5-C8	--	--	--	--	--	--
TPH - aromatic; C9-C18	--	1.5E+05	--	4.7E+04	--	--
TPH - aromatic; C≥19	--	1.5E+05	--	4.7E+04	--	--
VOCs						
1,1,1,2-Tetrachloroethane	2.6E+03	2.9E+03	6.6E+04	7.4E+04	6.5E+04	7.2E+04
1,1,1-Trichloroethane	--	4.9E+03	--	1.0E+06	--	5.3E+05
1,1,2-Trichloroethane	5.6E+02	1.8E+02	7.0E+04	2.9E+04	2.4E+04	7.9E+03
1,1-Dichloroethane	2.3E+03	2.7E+03	9.8E+05	8.0E+05	2.0E+05	2.3E+05
1,1-Dichloroethene	--	2.5E+02	--	2.3E+05	--	3.2E+04
1,1-Dichloropropene	4.5E+04	1.7E+05	--	--	2.2E+04	9.7E+03
1,2,4-Trichlorobenzene	--	1.8E+03	--	5.4E+03	--	2.3E+04
1,2,4-Trimethylbenzene	--	2.2E+02	--	3.0E+04	--	3.0E+03
1,2-Dibromo-3-chloropropane	2.9E+01	1.7E+01	3.7E+02	2.1E+02	3.3E+02	1.9E+02
1,2-Dichlorobenzene	--	5.5E+03	--	9.5E+04	--	1.1E+05
1,2-Dichloroethane	2.8E+02	4.1E+01	1.9E+05	2.5E+05	1.7E+04	2.4E+03
1,3,5-Trimethylbenzene	--	9.2E+01	--	4.2E+04	--	3.0E+03
1,3-Dichlorobenzene	--	2.9E+03	--	2.3E+04	--	6.0E+04
1,4-Dichlorobenzene	1.5E+03	1.8E+04	1.3E+05	3.1E+04	3.5E+04	4.6E+05
2-Butanone (MEK)	--	2.0E+05	--	3.6E+07	--	6.2E+06
2-Chlorotoluene	--	7.7E+02	--	1.7E+04	--	3.7E+04
Acenaphthene	--	5.8E+04	--	2.9E+04	--	1.6E+05
Acetone	--	8.7E+04	--	1.1E+08	--	2.9E+06
Benzene	1.4E+02	3.4E+02	2.7E+04	1.6E+04	1.0E+04	2.5E+04
Bromochloromethane	--	7.7E+02	--	3.7E+05	--	3.8E+04
Bromodichloromethane	3.1E+02	1.2E+03	4.7E+04	1.7E+05	1.1E+04	4.3E+04
Bromomethane	--	2.2E+01	--	2.7E+04	--	2.3E+03
Carbon Disulfide	--	2.5E+03	--	3.4E+05	--	3.2E+05

Table 5-2
Risk-Based Concentrations (RBCs)
Trench Worker Exposure Scenario
Site-Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters					
	Soil Pathways[a] (mg/kg)		Groundwater Pathways (ug/L)			
			Dermal Contact with GW		GW-to-Outdoor Air	
	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$
Carbon Tetrachloride	7.5E+01	1.8E+02	--	--	9.4E+03	2.3E+04
Chlorobenzene	--	1.1E+04	--	3.7E+04	--	5.0E+05
Chloroethane	2.8E+03	9.7E+04	2.4E+06	3.9E+06	3.2E+05	1.1E+07
Chloroform	7.3E+02	1.7E+03	1.6E+05	7.2E+04	6.6E+04	1.5E+05
Chloromethane	--	2.9E+02	--	4.8E+05	--	3.0E+04
cis-1,2-Dichloroethene	--	2.2E+02	--	5.0E+04	--	1.6E+04
Dibromochloromethane	6.5E+02	1.7E+03	6.9E+04	1.9E+05	1.8E+04	5.0E+04
Dibromomethane	--	6.1E+02	--	1.7E+05	--	2.3E+04
Diisopropyl ether	--	3.0E+03	--	--	--	1.8E+05
Ethylbenzene	--	2.0E+04	--	1.1E+05	--	9.6E+05
Ethyl-Tert-Butyl Ether	--	1.7E+03	--	7.1E+03	--	1.4E+05
Fluorene	--	6.5E+04	--	1.4E+04	--	1.4E+05
Freon-113	--	1.5E+05	--	--	--	1.9E+07
Hexachlorobutadiene	5.3E+02	1.8E+01	--	--	2.3E+04	7.8E+02
Isopropylbenzene	--	2.8E+03	--	5.8E+04	--	2.0E+05
Methyl tertbutyl ether (MTBE)	2.8E+04	8.1E+04	9.9E+06	2.2E+07	1.3E+06	3.7E+06
Methylene Chloride	3.9E+03	2.2E+03	7.9E+05	9.5E+05	3.1E+05	1.7E+05
Naphthalene	1.6E+03	7.3E+02	6.1E+03	2.1E+04	1.2E+04	5.2E+03
n-Butylbenzene	--	3.0E+03	--	9.7E+03	--	7.5E+04
n-Propylbenzene	--	3.0E+03	--	2.1E+04	--	7.1E+04
p-Isopropyltoluene	--	9.1E+03	--	3.1E+04	--	2.1E+05
Pyrene	--	1.4E+05	--	4.7E+03	--	3.9E+05
sec-Butylbenzene	--	2.2E+03	--	1.3E+04	--	7.5E+04
Styrene	--	2.3E+04	--	2.9E+05	--	4.3E+05
tert-Butyl alcohol	--	2.8E+04	--	--	--	7.6E+05
tert-Butylbenzene	--	2.7E+03	--	1.1E+04	--	7.5E+04
Tetrachloroethene	5.9E+02	1.9E+02	1.5E+03	1.2E+04	6.9E+04	2.1E+04
Toluene	--	2.4E+03	--	3.7E+05	--	1.3E+05
trans-1,2-Dichloroethene	--	3.6E+02	--	9.9E+04	--	3.2E+04
Trichloroethene	2.3E+03	1.2E+03	2.2E+05	1.2E+03	1.9E+05	3.2E+05
Vinyl Chloride	2.6E+01	2.8E+02	2.8E+04	3.2E+04	3.3E+03	3.7E+04
Xylenes	--	8.3E+03	--	2.1E+05	--	3.3E+05

Notes:

" -- " not applicable; GW: Groundwater

[a] Soil pathways include: incidental soil ingestion, dermal contact, and outdoor inhalation of particulates/vapors

Table 5-3
Risk-Based Concentrations (RBCs)
Commercial Worker Exposure Scenario
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters			
	Soil Pathways[a] (mg/kg)		Indoor Air Pathway (ug/L)	
			SG-to-Indoor Air	
	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$
Inorganics				
Antimony	--	4.0E+02	--	--
Arsenic	2.8E+00	2.9E+02	--	--
Barium	--	6.8E+04	--	--
Beryllium	5.3E+04	1.9E+03	--	--
Cadmium	3.0E+04	1.0E+03	--	--
Chromium	--	1.5E+06	--	--
Chromium, Hexavalent	8.8E+02	3.1E+03	--	--
Cobalt	--	1.6E+04	--	--
Copper	--	4.0E+04	--	--
Cyanide (Amenable)	--	1.7E+04	--	--
Cyanide (Total)	--	1.7E+04	--	--
Mercury	--	3.0E+02	--	--
Molybdenum	--	5.0E+03	--	--
Nickel	4.9E+05	1.8E+04	--	--
Selenium	--	5.0E+03	--	--
Silver	--	5.0E+03	--	--
Thallium	--	6.6E+01	--	--
Vanadium	--	1.0E+03	--	--
Zinc	--	3.0E+05	--	--
PAHs				
2-Methylnaphthalene	--	2.3E+04	--	--
Anthracene	--	2.3E+05	--	--
Benzo(a)anthracene	1.8E+01	--	--	--
Benzo(a)Pyrene	1.8E+00	--	--	--
Benzo(b)Fluoranthene	1.8E+01	--	--	--
Benzo(k)Fluoranthene	1.8E+01	--	--	--
Benzo(g,h,i)Perylene	--	2.3E+04	--	--
Chrysene	1.8E+02	--	--	--
Dibenz(a,h)anthracene	1.8E+00	--	--	--
Fluoranthene	--	3.0E+04	--	--
Indeno(1,2,3-cd)pyrene	1.8E+01	--	--	--
Phenanthrene	--	2.3E+05	--	--
PCBs				
Aroclor 1016	3.0E+02	5.3E+01	--	--
Aroclor 1242	4.3E+00	1.5E+01	--	--
Aroclor 1248	4.3E+00	1.5E+01	--	--
Aroclor 1254	4.3E+00	1.5E+01	--	--
Aroclor 1260	4.3E+00	1.5E+01	--	--
Aroclor 1262	4.3E+00	1.5E+01	--	--
Perchlorate				
Perchlorate	--	7.2E+02	--	--

Table 5-3
Risk-Based Concentrations (RBCs)
Commercial Worker Exposure Scenario
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters			
	Soil Pathways[a] (mg/kg)		Indoor Air Pathway (ug/L)	
			SG-to-Indoor Air	
	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$
SVOCs				
1,4-Dioxane	8.6E+02	1.4E+10	--	--
4-Chloro-3-methylphenol	--	8.3E+04	--	--
Aniline	4.1E+03	5.8E+03	--	--
Benzoic Acid	--	3.3E+06	--	--
Bis(2-ethylhexyl)Phthalate	7.7E+03	1.7E+04	--	--
Diethylphthalate	--	6.6E+05	--	--
Diisopropyl Ether	--	8.2E+02	--	--
Dimethyl Phthalate	--	8.3E+06	--	--
Di-n-butylphthalate	--	8.3E+04	--	--
Phenol	--	2.5E+05	--	--
TPH				
TPH - aliphatic; C5-C8	--	3.0E+04	--	--
TPH - aliphatic; C9-C18	--	7.6E+04	--	--
TPH - aliphatic; C≥19	--	1.5E+06	--	--
TPH - aromatic; C5-C8	--	--	--	--
TPH - aromatic; C9-C18	--	2.3E+04	--	--
TPH - aromatic; C≥19	--	2.3E+04	--	--
VOCs				
1,1,1,2-Tetrachloroethane	2.8E+01	7.7E+02	1.7E+01	4.6E+02
1,1,1-Trichloroethane	--	1.3E+03	--	4.3E+03
1,1,2-Trichloroethane	6.0E+00	4.9E+01	7.3E+00	6.0E+01
1,1-Dichloroethane	2.5E+01	7.3E+02	7.5E+01	2.2E+03
1,1-Dichloroethene	--	6.7E+01	--	2.8E+02
1,1-Dichloropropene	2.6E+02	2.5E+04	8.3E+00	9.3E+01
1,2,4-Trichlorobenzene	--	4.7E+02	--	2.4E+02
1,2,4-Trimethylbenzene	--	6.0E+01	--	2.8E+01
1,2-Dibromo-3-chloropropane	3.1E-01	4.4E+00	1.2E-01	1.7E+00
1,2-Dichlorobenzene	--	1.5E+03	--	8.9E+02
1,2-Dichloroethane	3.1E+00	1.1E+01	5.3E+00	1.9E+01
1,3,5-Trimethylbenzene	--	2.5E+01	--	2.8E+01
1,3-Dichlorobenzene	--	7.8E+02	--	4.7E+02
1,4-Dichlorobenzene	1.6E+01	4.4E+03	1.1E+01	3.6E+03
2-Butanone (MEK)	--	5.1E+04	--	2.1E+04
2-Chlorotoluene	--	2.1E+02	--	3.1E+02
Acenaphthene	--	1.4E+04	--	1.2E+03
Acetone	--	2.3E+04	--	1.2E+04
Benzene	1.5E+00	9.3E+01	4.0E+00	2.5E+02
Bromochloromethane	--	2.1E+02	--	3.7E+02
Bromodichloromethane	3.4E+00	3.1E+02	5.1E+00	4.8E+02
Bromomethane	--	6.1E+00	--	2.2E+01
Carbon Disulfide	--	6.7E+02	--	3.1E+03

Table 5-3
Risk-Based Concentrations (RBCs)
Commercial Worker Exposure Scenario
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters			
	Soil Pathways[a] (mg/kg)		Indoor Air Pathway (ug/L)	
			SG-to-Indoor Air	
	RBC_{cancer}	$RBC_{noncancer}$	RBC_{cancer}	$RBC_{noncancer}$
Carbon Tetrachloride	8.2E-01	4.6E+01	2.8E+00	1.7E+02
Chlorobenzene	--	2.8E+03	--	4.4E+03
Chloroethane	3.1E+01	2.5E+04	1.1E+02	9.3E+04
Chloroform	7.9E+00	4.4E+02	2.0E+01	1.2E+03
Chloromethane	--	7.9E+01	--	3.3E+02
cis-1,2-Dichloroethene	--	6.0E+01	--	1.5E+02
Dibromochloromethane	7.0E+00	4.7E+02	9.3E+00	6.3E+02
Dibromomethane	--	1.6E+02	--	1.9E+02
Diisopropyl ether	--	8.2E+02	--	1.7E+03
Ethylbenzene	--	5.4E+03	--	8.7E+03
Ethyl-Tert-Butyl Ether	--	3.7E+02	--	1.3E+03
Fluorene	--	1.4E+04	--	8.5E+02
Freon-113	--	4.0E+04	--	1.3E+05
Hexachlorobutadiene	5.7E+00	4.8E+00	6.1E+00	5.1E+00
Isopropylbenzene	--	7.6E+02	--	1.8E+03
Methyl tertbutyl ether (MTBE)	3.0E+02	2.2E+04	4.2E+02	3.1E+04
Methylene Chloride	4.2E+01	6.0E+02	1.1E+02	1.6E+03
Naphthalene	1.7E+01	2.0E+02	3.9E+00	4.3E+01
n-Butylbenzene	--	8.1E+02	--	6.8E+02
n-Propylbenzene	--	8.1E+02	--	6.6E+02
p-Isopropyltoluene	--	2.4E+03	--	1.9E+03
Pyrene	--	2.2E+04	--	7.5E+02
sec-Butylbenzene	--	6.0E+02	--	6.8E+02
Styrene	--	6.1E+03	--	4.0E+03
tert-Butyl alcohol	--	7.4E+03	--	4.3E+03
tert-Butylbenzene	--	7.2E+02	--	6.8E+02
Tetrachloroethene	6.0E+00	5.2E+01	2.1E+01	1.5E+02
Toluene	--	6.5E+02	--	1.2E+03
trans-1,2-Dichloroethene	--	9.9E+01	--	3.1E+02
Trichloroethene	2.5E+01	2.0E+02	5.9E+01	2.5E+03
Vinyl Chloride	2.8E-01	7.6E+01	1.4E+00	3.9E+02
Xylenes	--	2.2E+03	--	3.0E+03

Notes:

" -- " not applicable; SG: Soil gas

[a] Soil pathways include: incidental soil ingestion, dermal contact, and outdoor inhalation of particulates/vapors

Table 5-4
Risk-Based Concentrations (RBCs)
Landscaper Exposure Scenario
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters	
	Soil Pathways[a] (mg/kg)	
	RBC_{cancer}	$RBC_{noncancer}$
Inorganics		
Antimony	--	1.6E+03
Arsenic	8.2E+00	8.3E+02
Barium	--	2.7E+05
Beryllium	2.2E+05	7.5E+03
Cadmium	1.2E+05	4.9E+03
Chromium	--	6.0E+06
Chromium, Hexavalent	3.6E+03	1.5E+04
Cobalt	--	6.6E+04
Copper	--	1.6E+05
Cyanide (Amenable)	--	2.7E+04
Cyanide (Total)	--	2.7E+04
Mercury	--	1.2E+03
Molybdenum	--	2.0E+04
Nickel	2.0E+06	7.3E+04
Selenium	--	2.0E+04
Silver	--	2.0E+04
Thallium	--	2.6E+02
Vanadium	--	4.0E+03
Zinc	--	1.2E+06
PAHs		
2-Methylnaphthalene	--	2.9E+04
Anthracene	--	2.9E+05
Benzo(a)anthracene	2.3E+01	--
Benzo(a)Pyrene	2.3E+00	--
Benzo(b)Fluoranthene	2.3E+01	--
Benzo(k)Fluoranthene	2.3E+01	--
Benzo(g,h,i)Perylene	--	2.9E+04
Chrysene	2.3E+02	--
Dibenz(a,h)anthracene	2.3E+00	--
Fluoranthene	--	3.9E+04
Indeno(1,2,3-cd)pyrene	2.3E+01	--
Phenanthrene	--	2.9E+05
PCBs		
Aroclor 1016	3.9E+02	6.8E+01
Aroclor 1242	5.4E+00	1.9E+01
Aroclor 1248	5.4E+00	1.9E+01
Aroclor 1254	5.4E+00	1.9E+01
Aroclor 1260	5.4E+00	1.9E+01
Aroclor 1262	5.4E+00	1.9E+01
Perchlorate		
Perchlorate	--	3.6E+03

Table 5-4
Risk-Based Concentrations (RBCs)
Landscaper Exposure Scenario
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters	
	Soil Pathways[a] (mg/kg)	
	RBC_{cancer}	$RBC_{noncancer}$
SVOCs		
1,4-Dioxane	1.4E+03	5.6E+10
4-Chloro-3-methylphenol	--	1.3E+05
Aniline	6.5E+03	9.3E+03
Benzoic Acid	--	5.3E+06
Bis(2-ethylhexyl)Phthalate	1.2E+04	2.7E+04
Diethylphthalate	--	1.1E+06
Diisopropyl Ether	--	3.4E+03
Dimethyl Phthalate	--	1.3E+07
Di-n-butylphthalate	--	1.3E+05
Phenol	--	4.0E+05
TPH		
TPH - aliphatic; C5-C8	--	3.9E+04
TPH - aliphatic; C9-C18	--	9.7E+04
TPH - aliphatic; C≥19	--	1.9E+06
TPH - aromatic; C5-C8	--	--
TPH - aromatic; C9-C18	--	2.9E+04
TPH - aromatic; C≥19	--	2.9E+04
VOCs		
1,1,1,2-Tetrachloroethane	1.1E+02	3.0E+03
1,1,1-Trichloroethane	--	5.4E+03
1,1,2-Trichloroethane	2.4E+01	2.0E+02
1,1-Dichloroethane	1.0E+02	3.0E+03
1,1-Dichloroethene	--	2.8E+02
1,1-Dichloropropene	4.1E+02	4.0E+04
1,2,4-Trichlorobenzene	--	1.8E+03
1,2,4-Trimethylbenzene	--	2.5E+02
1,2-Dibromo-3-chloropropane	1.1E+00	1.6E+01
1,2-Dichlorobenzene	--	6.0E+03
1,2-Dichloroethane	1.3E+01	4.6E+01
1,3,5-Trimethylbenzene	--	1.0E+02
1,3-Dichlorobenzene	--	3.1E+03
1,4-Dichlorobenzene	6.8E+01	1.4E+04
2-Butanone (MEK)	--	1.8E+05
2-Chlorotoluene	--	8.5E+02
Acenaphthene	--	3.4E+04
Acetone	--	9.2E+04
Benzene	6.3E+00	3.7E+02
Bromochloromethane	--	8.4E+02
Bromodichloromethane	1.4E+01	1.3E+03
Bromomethane	--	2.5E+01
Carbon Disulfide	--	2.7E+03

Table 5-4
Risk-Based Concentrations (RBCs)
Landscaper Exposure Scenario
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters	
	Soil Pathways[a] (mg/kg)	
	RBC_{cancer}	$RBC_{noncancer}$
Carbon Tetrachloride	3.3E+00	1.7E+02
Chlorobenzene	--	9.1E+03
Chloroethane	1.3E+02	9.4E+04
Chloroform	3.2E+01	1.7E+03
Chloromethane	--	3.2E+02
cis-1,2-Dichloroethene	--	2.4E+02
Dibromochloromethane	2.8E+01	1.8E+03
Dibromomethane	--	6.6E+02
Diisopropyl ether	--	3.4E+03
Ethylbenzene	--	2.0E+04
Ethyl-Tert-Butyl Ether	--	8.9E+02
Fluorene	--	2.8E+04
Freon-113	--	1.6E+05
Hexachlorobutadiene	2.3E+01	1.9E+01
Isopropylbenzene	--	3.1E+03
Methyl tertbutyl ether (MTBE)	1.2E+03	8.6E+04
Methylene Chloride	1.7E+02	2.4E+03
Naphthalene	5.7E+01	8.0E+02
n-Butylbenzene	--	3.2E+03
n-Propylbenzene	--	3.2E+03
p-Isopropyltoluene	--	9.6E+03
Pyrene	--	3.8E+04
sec-Butylbenzene	--	2.4E+03
Styrene	--	2.4E+04
tert-Butyl alcohol	--	2.9E+04
tert-Butylbenzene	--	2.9E+03
Tetrachloroethene	2.0E+01	2.1E+02
Toluene	--	2.7E+03
trans-1,2-Dichloroethene	--	4.0E+02
Trichloroethene	1.0E+02	3.7E+02
Vinyl Chloride	1.2E+00	3.0E+02
Xylenes	--	9.0E+03

Notes:

" -- " not applicable

[a] Soil pathways include: incidental soil ingestion, dermal contact, and outdoor inhalation of particulates/vapors

Table 5-5
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Construction Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**RBC_{cancer}**	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**$RBC_{noncancer}$**
Soil:	**Inorganics**											
Incidental ingestion	Antimony	1 mg/kg	--	--	--	--	**--**	8.1E-03	--	2.4E-04	8.3E-03	**1.2E+02**
Dermal contact	Arsenic	1 mg/kg	4.4E-07	6.7E-09	3.9E-08	4.8E-07	**2.1E+01**	1.1E-02	4.6E-03	9.7E-04	1.6E-02	**6.1E+01**
Outdoor Inhalation	Barium	1 mg/kg	--	--	--	--	**--**	4.6E-05	2.7E-04	1.4E-06	3.2E-04	**3.1E+03**
(RBC_{soil})	Beryllium	1 mg/kg	--	4.7E-09	--	4.7E-09	**2.1E+03**	1.6E-03	2.0E-02	4.8E-05	2.1E-02	**4.7E+01**
	Cadmium	1 mg/kg	--	8.4E-09	--	8.4E-09	**1.2E+03**	3.2E-03	6.8E-03	9.7E-06	1.0E-02	**9.9E+01**
	Chromium	1 mg/kg	--	--	--	--	**--**	2.2E-06	--	6.5E-08	2.2E-06	**4.5E+05**
	Chromium, Hexavalent	1 mg/kg	--	2.9E-07	--	2.9E-07	**3.5E+01**	1.1E-03	6.8E-04	0.0E+00	1.8E-03	**5.7E+02**
	Cobalt	1 mg/kg	--	--	--	--	**--**	1.6E-04	6.9E-03	4.8E-06	7.0E-03	**1.4E+02**
	Copper	1 mg/kg	--	--	--	--	**--**	8.1E-05	--	2.4E-06	8.3E-05	**1.2E+04**
	Cyanide (Amenable)	1 mg/kg	--	--	--	--	**--**	1.6E-04	--	4.8E-05	2.1E-04	**4.8E+03**
	Cyanide (Total)	1 mg/kg	--	--	--	--	**--**	1.6E-04	--	4.8E-05	2.1E-04	**4.8E+03**
	Mercury	1 mg/kg	--	--	--	--	**--**	1.1E-02	1.5E-03	3.2E-04	1.3E-02	**7.9E+01**
	Molybdenum	1 mg/kg	--	--	--	--	**--**	6.5E-04	--	1.9E-05	6.7E-04	**1.5E+03**
	Nickel	1 mg/kg	--	5.1E-10	--	5.1E-10	**2.0E+04**	1.6E-04	2.7E-03	4.8E-06	2.9E-03	**3.4E+02**
	Selenium	1 mg/kg	--	--	--	--	**--**	6.5E-04	6.8E-06	1.9E-05	6.7E-04	**1.5E+03**
	Silver	1 mg/kg	--	--	--	--	**--**	6.5E-04	--	1.9E-05	6.7E-04	**1.5E+03**
	Thallium	1 mg/kg	--	--	--	--	**--**	4.9E-02	--	1.5E-03	5.0E-02	**2.0E+01**
	Vanadium	1 mg/kg	--	--	--	--	**--**	3.2E-03	--	9.7E-05	3.3E-03	**3.0E+02**
	Zinc	1 mg/kg	--	--	--	--	**--**	1.1E-05	--	3.2E-07	1.1E-05	**9.0E+04**
	PAHs											
	2-Methylnaphthalene	1 mg/kg	--	--	--	--	**--**	1.1E-04	1.3E-06	4.8E-05	1.6E-04	**6.4E+03**
	Anthracene	1 mg/kg	--	--	--	--	**--**	1.1E-05	1.3E-07	4.8E-06	1.6E-05	**6.4E+04**
	Benzo(a)anthracene	1 mg/kg	5.5E-08	2.2E-10	2.5E-08	8.0E-08	**1.2E+02**	--	--	--	--	**--**
	Benzo(a)Pyrene	1 mg/kg	5.5E-07	2.2E-09	2.5E-07	8.0E-07	**1.2E+01**	--	--	--	--	**--**
	Benzo(b)Fluoranthene	1 mg/kg	5.5E-08	2.2E-10	2.5E-08	8.0E-08	**1.2E+02**	--	--	--	--	**--**
	Benzo(k)Fluoranthene	1 mg/kg	5.5E-08	2.2E-10	2.5E-08	8.0E-08	**1.2E+02**	--	--	--	--	**--**
	Benzo(g,h,i)Perylene	1 mg/kg	--	--	--	--	**--**	1.1E-04	1.3E-06	4.8E-05	1.6E-04	**6.4E+03**
	Chrysene	1 mg/kg	5.5E-09	2.2E-11	2.5E-09	8.0E-09	**1.2E+03**	--	--	--	--	**--**
	Dibenz(a,h)anthracene	1 mg/kg	5.5E-07	2.2E-09	2.5E-07	8.0E-07	**1.2E+01**	--	--	--	--	**--**
	Fluoranthene	1 mg/kg	--	--	--	--	**--**	8.1E-05	9.8E-07	3.6E-05	1.2E-04	**8.5E+03**
	Indeno(1,2,3-cd)pyrene	1 mg/kg	5.5E-08	2.2E-10	2.5E-08	8.0E-08	**1.2E+02**	--	--	--	--	**--**
	Phenanthrene	1 mg/kg	--	--	--	--	**--**	1.1E-05	1.3E-07	4.8E-06	1.6E-05	**6.4E+04**
	PCBs											
	Aroclor 1016	1 mg/kg	3.2E-09	3.9E-11	1.5E-09	4.7E-09	**2.1E+03**	4.6E-02	5.6E-04	2.1E-02	6.7E-02	**1.5E+01**
	Aroclor 1242	1 mg/kg	2.3E-07	1.1E-09	1.0E-07	3.4E-07	**3.0E+01**	1.6E-01	2.0E-03	7.3E-02	2.4E-01	**4.2E+00**
	Aroclor 1248	1 mg/kg	2.3E-07	1.1E-09	1.0E-07	3.4E-07	**3.0E+01**	1.6E-01	2.0E-03	7.3E-02	2.4E-01	**4.2E+00**
	Aroclor 1254	1 mg/kg	2.3E-07	1.1E-09	1.0E-07	3.4E-07	**3.0E+01**	1.6E-01	2.0E-03	7.3E-02	2.4E-01	**4.2E+00**
	Aroclor 1260	1 mg/kg	2.3E-07	1.1E-09	1.0E-07	3.4E-07	**3.0E+01**	1.6E-01	2.0E-03	7.3E-02	2.4E-01	**4.2E+00**
	Aroclor 1262	1 mg/kg	2.3E-07	1.1E-09	1.0E-07	3.4E-07	**3.0E+01**	1.6E-01	2.0E-03	7.3E-02	2.4E-01	**4.2E+00**
	Perchlorate											
	Perchlorate	1 mg/kg	--	--	--	--	**--**	4.6E-03	--	0.0E+00	4.6E-03	**2.2E+02**
	SVOCs											
	1,4-Dioxane	1 mg/kg	1.2E-09	1.5E-11	3.7E-10	1.6E-09	**6.1E+03**	--	4.6E-08	--	4.6E-08	**2.2E+07**
	4-Chloro-3-methylphenol	1 mg/kg	--	--	--	--	**--**	3.2E-05	--	9.7E-06	4.2E-05	**2.4E+04**
	Aniline	1 mg/kg	2.6E-10	3.2E-12	7.9E-11	3.4E-10	**2.9E+04**	4.6E-04	1.4E-04	1.4E-04	7.4E-04	**1.4E+03**
	Benzoic Acid	1 mg/kg	--	--	--	--	**--**	8.1E-07	9.8E-09	2.4E-07	1.1E-06	**9.4E+05**
	Bis(2-ethylhexyl)Phthalate	1 mg/kg	1.4E-10	4.7E-12	4.2E-11	1.8E-10	**5.4E+04**	1.6E-04	2.0E-06	4.8E-05	2.1E-04	**4.7E+03**
	Diethylphthalate	1 mg/kg	--	--	--	--	**--**	4.0E-06	4.9E-08	1.2E-06	5.3E-06	**1.9E+05**

Table 5-5
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Construction Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**RBC_{cancer}**	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**$RBC_{noncancer}$**
Soil:	Diisopropyl Ether	1 mg/kg	--	--	--	--	**--**	--	6.8E-03	--	6.8E-03	**1.5E+02**
Incidental ingestion	Dimethyl Phthalate	1 mg/kg	--	--	--	--	**--**	3.2E-07	3.9E-09	9.7E-08	4.2E-07	**2.4E+06**
Dermal contact	Di-n-butylphthalate	1 mg/kg	--	--	--	--	**--**	3.2E-05	3.9E-07	9.7E-06	4.2E-05	**2.4E+04**
Outdoor Inhalation	Phenol	1 mg/kg	--	--	--	--	**--**	1.1E-05	6.8E-07	3.2E-06	1.5E-05	**6.8E+04**
(RBC_{soil})	**TPH**											
	TPH - aliphatic; C5-C8	1 mg/kg	--	--	--	--	**--**	8.1E-05	6.5E-07	3.6E-05	1.2E-04	**8.5E+03**
	TPH - aliphatic; C9-C18	1 mg/kg	--	--	--	--	**--**	3.2E-05	1.3E-07	1.5E-05	4.7E-05	**2.1E+04**
	TPH - aliphatic; C≥19	1 mg/kg	--	--	--	--	**--**	1.6E-06	1.3E-07	7.3E-07	2.5E-06	**4.0E+05**
	TPH - aromatic; C5-C8	1 mg/kg	--	--	--	--	**--**	--	--	--	--	**--**
	TPH - aromatic; C9-C18	1 mg/kg	--	--	--	--	**--**	1.1E-04	6.5E-06	4.8E-05	1.6E-04	**6.2E+03**
	TPH - aromatic; C≥19	1 mg/kg	--	--	--	--	**--**	1.1E-04	--	4.8E-05	1.6E-04	**6.4E+03**
	VOCs											
	1,1,1,2-Tetrachloroethane	1 mg/kg	1.2E-09	7.8E-08	3.6E-10	8.0E-08	**1.3E+02**	1.1E-04	7.0E-03	3.2E-05	7.2E-03	**1.4E+02**
	1,1,1-Trichloroethane	1 mg/kg	--	--	--	--	**--**	1.2E-05	4.2E-03	3.5E-06	4.2E-03	**2.4E+02**
	1,1,2-Trichloroethane	1 mg/kg	3.3E-09	3.6E-07	1.0E-09	3.7E-07	**2.7E+01**	8.1E-04	1.1E-01	2.4E-04	1.1E-01	**8.9E+00**
	1,1-Dichloroethane	1 mg/kg	2.6E-10	8.8E-08	7.9E-11	8.8E-08	**1.1E+02**	3.2E-05	7.5E-03	9.7E-06	7.6E-03	**1.3E+02**
	1,1-Dichloroethene	1 mg/kg	--	--	--	--	**--**	6.5E-05	8.2E-02	1.9E-05	8.2E-02	**1.2E+01**
	1,1-Dichloropropene	1 mg/kg	4.2E-09	3.1E-11	1.3E-09	5.5E-09	**1.8E+03**	1.1E-04	6.8E-06	3.2E-05	1.5E-04	**6.8E+03**
	1,2,4-Trichlorobenzene	1 mg/kg	--	--	--	--	**--**	3.2E-04	1.1E-02	9.7E-05	1.1E-02	**8.7E+01**
	1,2,4-Trimethylbenzene	1 mg/kg	--	--	--	--	**--**	6.5E-05	9.2E-02	1.9E-05	9.2E-02	**1.1E+01**
	1,2-Dibromo-3-chloropropane	1 mg/kg	3.2E-07	6.6E-06	9.7E-08	7.0E-06	**1.4E+00**	5.7E-02	1.2E+00	1.7E-02	1.2E+00	**8.1E-01**
	1,2-Dichlorobenzene	1 mg/kg	--	--	--	--	**--**	3.6E-05	3.7E-03	1.1E-05	3.7E-03	**2.7E+02**
	1,2-Dichloroethane	1 mg/kg	2.2E-09	7.2E-07	6.5E-10	7.2E-07	**1.4E+01**	1.6E-04	5.0E-01	4.8E-05	5.0E-01	**2.0E+00**
	1,3,5-Trimethylbenzene	1 mg/kg	--	--	--	--	**--**	6.5E-05	2.2E-01	1.9E-05	2.2E-01	**4.5E+00**
	1,3-Dichlorobenzene	1 mg/kg	--	--	--	--	**--**	1.1E-04	7.0E-03	3.2E-05	7.1E-03	**1.4E+02**
	1,4-Dichlorobenzene	1 mg/kg	2.5E-10	1.3E-07	7.5E-11	1.3E-07	**7.4E+01**	1.1E-04	1.0E-03	3.2E-05	1.2E-03	**8.5E+02**
	2-Butanone (MEK)	1 mg/kg	--	--	--	--	**--**	5.4E-06	9.8E-05	1.6E-06	1.0E-04	**9.5E+03**
	2-Chlorotoluene	1 mg/kg	--	--	--	--	**--**	1.6E-04	2.6E-02	4.8E-05	2.6E-02	**3.8E+01**
	Acenaphthene	1 mg/kg	--	--	--	--	**--**	5.4E-05	2.8E-04	2.4E-05	3.6E-04	**2.8E+03**
	Acetone	1 mg/kg	--	--	--	--	**--**	3.6E-06	2.3E-04	1.1E-06	2.3E-04	**4.3E+03**
	Benzene	1 mg/kg	4.6E-09	1.4E-06	1.4E-09	1.4E-06	**6.9E+00**	8.1E-04	5.9E-02	2.4E-04	6.0E-02	**1.7E+01**
	Bromochloromethane	1 mg/kg	--	--	--	--	**--**	1.6E-04	2.6E-02	4.8E-05	2.7E-02	**3.7E+01**
	Bromodichloromethane	1 mg/kg	6.0E-09	6.5E-07	1.8E-09	6.5E-07	**1.5E+01**	1.6E-04	1.7E-02	4.8E-05	1.8E-02	**5.7E+01**
	Bromomethane	1 mg/kg	--	--	--	--	**--**	2.3E-03	9.1E-01	6.9E-04	9.2E-01	**1.1E+00**
	Carbon Disulfide	1 mg/kg	--	--	--	--	**--**	3.2E-05	8.3E-03	9.7E-06	8.3E-03	**1.2E+02**
	Carbon Tetrachloride	1 mg/kg	6.9E-09	2.7E-06	2.1E-09	2.7E-06	**3.7E+00**	4.6E-03	1.1E-01	1.4E-03	1.2E-01	**8.6E+00**
	Chlorobenzene	1 mg/kg	--	--	--	--	**--**	1.6E-04	1.7E-03	4.8E-05	1.9E-03	**5.3E+02**
	Chloroethane	1 mg/kg	1.3E-10	7.2E-08	4.0E-11	7.2E-08	**1.4E+02**	8.1E-06	2.0E-04	2.4E-06	2.1E-04	**4.7E+03**
	Chloroform	1 mg/kg	1.4E-09	2.8E-07	4.3E-10	2.8E-07	**3.6E+01**	3.2E-04	1.2E-02	9.7E-05	1.2E-02	**8.1E+01**
	Chloromethane	1 mg/kg	--	--	--	--	**--**	1.3E-04	7.0E-02	3.8E-05	7.1E-02	**1.4E+01**
	cis-1,2-Dichloroethene	1 mg/kg	--	--	--	--	**--**	3.2E-04	9.3E-02	9.7E-05	9.3E-02	**1.1E+01**
	Dibromochloromethane	1 mg/kg	4.3E-09	3.1E-07	1.3E-09	3.2E-07	**3.2E+01**	1.6E-04	1.2E-02	4.8E-05	1.2E-02	**8.5E+01**
	Dibromomethane	1 mg/kg	--	--	--	--	**--**	3.2E-04	3.3E-02	9.7E-05	3.4E-02	**3.0E+01**
	Diisopropyl ether	1 mg/kg	--	--	--	--	**--**	--	6.8E-03	--	6.8E-03	**1.5E+02**
	Ethylbenzene	1 mg/kg	--	--	--	--	**--**	3.2E-05	9.7E-04	9.7E-06	1.0E-03	**9.9E+02**
	Ethyl-Tert-Butyl Ether	1 mg/kg	--	--	--	--	**--**	3.2E-03	8.4E-03	9.7E-04	1.3E-02	**7.9E+01**
	Fluorene	1 mg/kg	--	--	--	--	**--**	8.1E-05	2.1E-04	3.6E-05	3.3E-04	**3.0E+03**
	Freon-113	1 mg/kg	--	--	--	--	**--**	1.1E-07	1.4E-04	3.2E-08	1.4E-04	**7.2E+03**
	Hexachlorobutadiene	1 mg/kg	3.6E-09	3.8E-07	1.1E-09	3.9E-07	**2.6E+01**	1.1E-02	1.1E+00	3.2E-03	1.2E+00	**8.7E-01**

Table 5-5
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Construction Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**RBC_{cancer}**	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**$RBC_{noncancer}$**
Soil:	Isopropylbenzene	1 mg/kg	--	--	--	--	**--**	3.2E-05	7.3E-03	9.7E-06	7.3E-03	**1.4E+02**
Incidental ingestion	Methyl tertbutyl ether (MTBE)	1 mg/kg	8.3E-11	7.3E-09	2.5E-11	7.4E-09	**1.3E+03**	3.8E-06	2.5E-04	1.1E-06	2.5E-04	**4.0E+03**
Dermal contact	Methylene Chloride	1 mg/kg	6.5E-10	5.2E-08	1.9E-10	5.3E-08	**1.9E+02**	5.4E-05	9.1E-03	1.6E-05	9.2E-03	**1.1E+02**
Outdoor Inhalation	Naphthalene	1 mg/kg	5.5E-09	1.2E-07	2.5E-09	1.3E-07	**7.7E+01**	1.6E-04	2.8E-02	7.3E-05	2.8E-02	**3.6E+01**
(RBC_{soil})	n-Butylbenzene	1 mg/kg	--	--	--	--	**--**	8.1E-05	6.7E-03	2.4E-05	6.8E-03	**1.5E+02**
	n-Propylbenzene	1 mg/kg	--	--	--	--	**--**	8.1E-05	6.7E-03	2.4E-05	6.8E-03	**1.5E+02**
	p-Isopropyltoluene	1 mg/kg	--	--	--	--	**--**	3.2E-05	2.2E-03	9.7E-06	2.3E-03	**4.4E+02**
	Pyrene	1 mg/kg	--	--	--	--	**--**	1.1E-04	2.6E-05	3.2E-05	1.7E-04	**6.0E+03**
	sec-Butylbenzene	1 mg/kg	--	--	--	--	**--**	8.1E-05	9.2E-03	2.4E-05	9.3E-03	**1.1E+02**
	Styrene	1 mg/kg	--	--	--	--	**--**	1.6E-05	8.9E-04	4.8E-06	9.1E-04	**1.1E+03**
	tert-Butyl alcohol	1 mg/kg	--	--	--	--	**--**	1.1E-05	7.3E-04	3.2E-06	7.4E-04	**1.3E+03**
	tert-Butylbenzene	1 mg/kg	--	--	--	--	**--**	8.1E-05	7.6E-03	2.4E-05	7.7E-03	**1.3E+02**
	Tetrachloroethene	1 mg/kg	2.5E-08	3.2E-07	7.5E-09	3.5E-07	**2.8E+01**	3.2E-04	1.1E-01	9.7E-05	1.1E-01	**9.4E+00**
	Toluene	1 mg/kg	--	--	--	--	**--**	1.6E-05	8.5E-03	4.8E-06	8.6E-03	**1.2E+02**
	trans-1,2-Dichloroethene	1 mg/kg	--	--	--	--	**--**	1.6E-04	5.6E-02	4.8E-05	5.6E-02	**1.8E+01**
	Trichloroethene	1 mg/kg	6.0E-10	8.7E-08	1.8E-10	8.8E-08	**1.1E+02**	1.1E-02	5.1E-03	3.2E-03	1.9E-02	**5.2E+01**
	Vinyl Chloride	1 mg/kg	1.2E-08	7.8E-06	3.7E-09	7.8E-06	**1.3E+00**	1.1E-03	7.1E-02	3.2E-04	7.2E-02	**1.4E+01**
	Xylenes	1 mg/kg	--	--	--	--	**--**	1.6E-05	2.5E-03	4.8E-06	2.5E-03	**4.0E+02**
Groundwater:	**Inorganics**						**µg/L**					**µg/L**
Dermal Contact	Antimony	1 µg/L	--	--	--	--	**--**	--	--	1.6E-04	1.6E-04	**6.2E+03**
($RBC_{gw\text{-}dermal}$)	Arsenic	1 µg/L	--	--	8.7E-09	8.7E-09	**1.1E+03**	--	--	2.2E-04	2.2E-04	**4.6E+03**
	Barium	1 µg/L	--	--	--	--	**--**	--	--	9.2E-07	9.2E-07	**1.1E+06**
	Beryllium	1 µg/L	--	--	--	--	**--**	--	--	3.2E-05	3.2E-05	**3.1E+04**
	Cadmium	1 µg/L	--	--	--	--	**--**	--	--	1.3E-04	1.3E-04	**7.7E+03**
	Chromium	1 µg/L	--	--	--	--	**--**	--	--	4.3E-08	4.3E-08	**2.3E+07**
	Chromium, Hexavalent	1 µg/L	--	--	--	--	**--**	--	--	4.3E-05	4.3E-05	**2.3E+04**
	Cobalt	1 µg/L	--	--	--	--	**--**	--	--	3.2E-06	3.2E-06	**3.1E+05**
	Copper	1 µg/L	--	--	--	--	**--**	--	--	1.6E-06	1.6E-06	**6.2E+05**
	Cyanide (Amenable)	1 µg/L	--	--	--	--	**--**	--	--	3.2E-06	3.2E-06	**3.1E+05**
	Cyanide (Total)	1 µg/L	--	--	--	--	**--**	--	--	3.2E-06	3.2E-06	**3.1E+05**
	Mercury	1 µg/L	--	--	--	--	**--**	--	--	2.2E-04	2.2E-04	**4.6E+03**
	Molybdenum	1 µg/L	--	--	--	--	**--**	--	--	1.3E-05	1.3E-05	**7.7E+04**
	Nickel	1 µg/L	--	--	--	--	**--**	--	--	6.5E-07	6.5E-07	**1.5E+06**
	Selenium	1 µg/L	--	--	--	--	**--**	--	--	1.3E-05	1.3E-05	**7.7E+04**
	Silver	1 µg/L	--	--	--	--	**--**	--	--	1.3E-05	1.3E-05	**7.7E+04**
	Thallium	1 µg/L	--	--	--	--	**--**	--	--	9.8E-04	9.8E-04	**1.0E+03**
	Vanadium	1 µg/L	--	--	--	--	**--**	--	--	6.5E-05	6.5E-05	**1.5E+04**
	Zinc	1 µg/L	--	--	--	--	**--**	--	--	1.3E-07	1.3E-07	**7.7E+06**
	PAHs											
	2-Methylnaphthalene	1 µg/L	--	--	--	--	**--**	--	--	3.2E-04	3.2E-04	**3.1E+03**
	Anthracene	1 µg/L	--	--	--	--	**--**	--	--	6.2E-05	6.2E-05	**1.6E+04**
	Benzo(a)anthracene	1 µg/L	--	--	1.5E-06	1.5E-06	**6.8E+00**	--	--	--	--	**--**
	Benzo(a)Pyrene	1 µg/L	--	--	2.5E-05	2.5E-05	**4.0E-01**	--	--	--	--	**--**
	Benzo(b)Fluoranthene	1 µg/L	--	--	2.5E-06	2.5E-06	**4.0E+00**	--	--	--	--	**--**
	Benzo(k)Fluoranthene	1 µg/L	--	--	2.5E-06	2.5E-06	**4.0E+00**	--	--	--	--	**--**
	Benzo(g,h,i)Perylene	1 µg/L	--	--	--	--	**--**	--	--	9.2E-03	9.2E-03	**1.1E+02**
	Chrysene	1 µg/L	--	--	1.5E-07	1.5E-07	**6.8E+01**	--	--	--	--	**--**
	Dibenz(a,h)anthracene	1 µg/L	--	--	3.9E-05	3.9E-05	**2.6E-01**	--	--	--	--	**--**
	Fluoranthene	1 µg/L	--	--	--	--	**--**	--	--	8.5E-04	8.5E-04	**1.2E+03**
	Indeno(1,2,3-cd)pyrene	1 µg/L	--	--	2.6E-06	2.6E-06	**3.8E+00**	--	--	--	--	**--**
	Phenanthrene	1 µg/L	--	--	--	--	**--**	--	--	6.3E-05	6.3E-05	**1.6E+04**

Table 5-5
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Construction Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Groundwater:	**PCBs**						**µg/L**					**µg/L**
Dermal Contact	Aroclor 1016	1 µg/L	--	--	6.6E-08	6.6E-08	**1.5E+02**	--	--	9.5E-01	9.5E-01	**1.1E+00**
($RBC_{gw\text{-}dermal}$)	Aroclor 1242	1 µg/L	--	--	1.1E-05	1.1E-05	**9.5E-01**	--	--	7.4E+00	7.4E+00	**1.4E-01**
	Aroclor 1248	1 µg/L	--	--	1.1E-05	1.1E-05	**8.8E-01**	--	--	8.0E+00	8.0E+00	**1.3E-01**
	Aroclor 1254	1 µg/L	--	--	1.8E-05	1.8E-05	**5.5E-01**	--	--	1.3E+01	1.3E+01	**7.8E-02**
	Aroclor 1260	1 µg/L	--	--	1.1E-04	1.1E-04	**8.9E-02**	--	--	7.9E+01	7.9E+01	**1.3E-02**
	Aroclor 1262	1 µg/L	--	--	1.1E-04	1.1E-04	**8.9E-02**	--	--	7.9E+01	7.9E+01	**1.3E-02**
	Perchlorate											
	Perchlorate	1 µg/L	--	--	--	--	**--**	--	--	4.7E-05	4.7E-05	**2.1E+04**
	SVOCs											
	1,4-Dioxane	1 µg/L	--	--	1.1E-11	1.1E-11	**9.1E+05**	--	--	--	--	**--**
	4-Chloro-3-methylphenol	1 µg/L	--	--	--	--	**--**	--	--	3.0E-05	3.0E-05	**3.3E+04**
	Aniline	1 µg/L	--	--	1.3E-11	1.3E-11	**7.6E+05**	--	--	2.3E-05	2.3E-05	**4.3E+04**
	Benzoic Acid	1 µg/L	--	--	--	--	**--**	--	--	1.4E-07	1.4E-07	**7.3E+06**
	Bis(2-ethylhexyl)Phthalate	1 µg/L	--	--	4.4E-10	4.4E-10	**2.3E+04**	--	--	5.1E-04	5.1E-04	**1.9E+03**
	Diethylphthalate	1 µg/L	--	--	--	--	**--**	--	--	8.4E-07	8.4E-07	**1.2E+06**
	Diisopropyl Ether	1 µg/L	--	--	--	--	**--**	--	--	--	--	**--**
	Dimethyl Phthalate	1 µg/L	--	--	--	--	**--**	--	--	2.0E-08	2.0E-08	**5.0E+07**
	Di-n-butylphthalate	1 µg/L	--	--	--	--	**--**	--	--	5.4E-05	5.4E-05	**1.9E+04**
	Phenol	1 µg/L	--	--	--	--	**--**	--	--	1.3E-06	1.3E-06	**7.9E+05**
	TPH											
	TPH - aliphatic; C5-C8	1 µg/L	--	--	--	--	**--**	--	--	7.5E-05	7.5E-05	**1.3E+04**
	TPH - aliphatic; C9-C18	1 µg/L	--	--	--	--	**--**	--	--	3.0E-05	3.0E-05	**3.3E+04**
	TPH - aliphatic; C≥19	1 µg/L	--	--	--	--	**--**	--	--	1.5E-06	1.5E-06	**6.6E+05**
	TPH - aromatic; C5-C8	1 µg/L	--	--	--	--	**--**	--	--	--	--	**--**
	TPH - aromatic; C9-C18	1 µg/L	--	--	--	--	**--**	--	--	1.0E-04	1.0E-04	**1.0E+04**
	TPH - aromatic; C≥19	1 µg/L	--	--	--	--	**--**	--	--	1.0E-04	1.0E-04	**1.0E+04**
	VOCs											
	1,1,1,2-Tetrachloroethane	1 µg/L	--	--	7.2E-10	7.2E-10	**1.4E+04**	--	--	6.4E-05	6.4E-05	**1.6E+04**
	1,1,1-Trichloroethane	1 µg/L	--	--	--	--	**--**	--	--	4.6E-06	4.6E-06	**2.2E+05**
	1,1,2-Trichloroethane	1 µg/L	--	--	6.8E-10	6.8E-10	**1.5E+04**	--	--	1.6E-04	1.6E-04	**6.1E+03**
	1,1-Dichloroethane	1 µg/L	--	--	4.8E-11	4.8E-11	**2.1E+05**	--	--	6.0E-06	6.0E-06	**1.7E+05**
	1,1-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	--	2.0E-05	2.0E-05	**4.9E+04**
	1,1-Dichloropropene	1 µg/L	--	--	5.2E-10	5.2E-10	**1.9E+04**	--	--	1.3E-05	1.3E-05	**7.5E+04**
	1,2,4-Trichlorobenzene	1 µg/L	--	--	--	--	**--**	--	--	8.8E-04	8.8E-04	**1.1E+03**
	1,2,4-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	--	1.6E-04	1.6E-04	**6.4E+03**
	1,2-Dibromo-3-chloropropane	1 µg/L	--	--	1.3E-07	1.3E-07	**7.7E+01**	--	--	2.3E-02	2.3E-02	**4.4E+01**
	1,2-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	--	5.0E-05	5.0E-05	**2.0E+04**
	1,2-Dichloroethane	1 µg/L	--	--	2.5E-10	2.5E-10	**4.0E+04**	--	--	1.9E-05	1.9E-05	**5.4E+04**
	1,3,5-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	--	1.1E-04	1.1E-04	**8.8E+03**
	1,3-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	--	2.1E-04	2.1E-04	**4.8E+03**
	1,4-Dichlorobenzene	1 µg/L	--	--	3.5E-10	3.5E-10	**2.8E+04**	--	--	1.5E-04	1.5E-04	**6.6E+03**
	2-Butanone (MEK)	1 µg/L	--	--	--	--	**--**	--	--	1.3E-07	1.3E-07	**7.6E+06**
	2-Chlorotoluene	1 µg/L	--	--	--	--	**--**	--	--	2.7E-04	2.7E-04	**3.7E+03**
	Acenaphthene	1 µg/L	--	--	--	--	**--**	--	--	1.7E-04	1.7E-04	**6.1E+03**
	Acetone	1 µg/L	--	--	--	--	**--**	--	--	4.5E-08	4.5E-08	**2.2E+07**
	Benzene	1 µg/L	--	--	1.7E-09	1.7E-09	**5.8E+03**	--	--	3.0E-04	3.0E-04	**3.3E+03**
	Bromochloromethane	1 µg/L	--	--	--	--	**--**	--	--	1.3E-05	1.3E-05	**7.8E+04**
	Bromodichloromethane	1 µg/L	--	--	1.0E-09	1.0E-09	**9.8E+03**	--	--	2.7E-05	2.7E-05	**3.6E+04**

Table 5-5
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Construction Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**RBC_{cancer}**	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**$RBC_{noncancer}$**
Groundwater:	Bromomethane	1 µg/L	--	--	--	--	**--**	--	--	1.8E-04	1.8E-04	**5.6E+03**
Dermal Contact	Carbon Disulfide	1 µg/L	--	--	--	--	**--**	--	--	1.4E-05	1.4E-05	**7.2E+04**
($RBC_{gw\text{-}dermal}$)	Carbon Tetrachloride	1 µg/L	--	--	4.0E-09	4.0E-09	**2.5E+03**	--	--	2.7E-03	2.7E-03	**3.8E+02**
	Chlorobenzene	1 µg/L	--	--	--	--	**--**	--	--	1.3E-04	1.3E-04	**7.8E+03**
	Chloroethane	1 µg/L	--	--	2.0E-11	2.0E-11	**5.0E+05**	--	--	1.2E-06	1.2E-06	**8.3E+05**
	Chloroform	1 µg/L	--	--	2.9E-10	2.9E-10	**3.5E+04**	--	--	6.5E-05	6.5E-05	**1.5E+04**
	Chloromethane	1 µg/L	--	--	--	--	**--**	--	--	9.9E-06	9.9E-06	**1.0E+05**
	cis-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	--	9.5E-05	9.5E-05	**1.0E+04**
	Dibromochloromethane	1 µg/L	--	--	6.8E-10	6.8E-10	**1.5E+04**	--	--	2.5E-05	2.5E-05	**3.9E+04**
	Dibromomethane	1 µg/L	--	--	--	--	**--**	--	--	2.8E-05	2.8E-05	**3.5E+04**
	Diisopropyl ether	1 µg/L	--	--	--	--	**--**	--	--	--	--	**--**
	Ethylbenzene	1 µg/L	--	--	--	--	**--**	--	--	4.2E-05	4.2E-05	**2.4E+04**
	Ethyl-Tert-Butyl Ether	1 µg/L	--	--	--	--	**--**	--	--	6.7E-04	6.7E-04	**1.5E+03**
	Fluorene	1 µg/L	--	--	--	--	**--**	--	--	3.3E-04	3.3E-04	**3.0E+03**
	Freon-113	1 µg/L	--	--	--	--	**--**	--	--	8.1E-08	8.1E-08	**1.2E+07**
	Hexachlorobutadiene	1 µg/L	--	--	1.8E-08	1.8E-08	**5.5E+02**	--	--	5.4E-02	5.4E-02	**1.9E+01**
	Isopropylbenzene	1 µg/L	--	--	--	--	**--**	--	--	8.1E-05	8.1E-05	**1.2E+04**
	Methyl tertbutyl ether (MTBE)	1 µg/L	--	--	4.8E-12	4.8E-12	**2.1E+06**	--	--	2.2E-07	2.2E-07	**4.6E+06**
	Methylene Chloride	1 µg/L	--	--	6.0E-11	6.0E-11	**1.7E+05**	--	--	5.0E-06	5.0E-06	**2.0E+05**
	Naphthalene	1 µg/L	--	--	7.7E-09	7.7E-09	**1.3E+03**	--	--	2.3E-04	2.3E-04	**4.4E+03**
	n-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	--	4.9E-04	4.9E-04	**2.0E+03**
	n-Propylbenzene	1 µg/L	--	--	--	--	**--**	--	--	2.3E-04	2.3E-04	**4.4E+03**
	p-Isopropyltoluene	1 µg/L	--	--	--	--	**--**	--	--	1.6E-04	1.6E-04	**6.4E+03**
	Pyrene	1 µg/L	--	--	--	--	**--**	--	--	1.0E-03	1.0E-03	**9.8E+02**
	sec-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	--	3.6E-04	3.6E-04	**2.8E+03**
	Styrene	1 µg/L	--	--	--	--	**--**	--	--	1.6E-05	1.6E-05	**6.2E+04**
	tert-Butyl alcohol	1 µg/L	--	--	--	--	**--**	--	--	4.7E-07	4.7E-07	**2.1E+06**
	tert-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	--	4.1E-04	4.1E-04	**2.4E+03**
	Tetrachloroethene	1 µg/L	--	--	3.1E-08	3.1E-08	**3.2E+02**	--	--	4.0E-04	4.0E-04	**2.5E+03**
	Toluene	1 µg/L	--	--	--	--	**--**	--	--	1.3E-05	1.3E-05	**7.7E+04**
	trans-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	--	4.8E-05	4.8E-05	**2.1E+04**
	Trichloroethene	1 µg/L	--	--	2.2E-10	2.2E-10	**4.6E+04**	--	--	3.9E-03	3.9E-03	**2.6E+02**
	Vinyl Chloride	1 µg/L	--	--	1.7E-09	1.7E-09	**5.8E+03**	--	--	1.5E-04	1.5E-04	**6.8E+03**
	Xylenes	1 µg/L	--	--	--	--	**--**	--	--	2.3E-05	2.3E-05	**4.4E+04**
Groundwater-to-	**VOCs**						**µg/L**					**µg/L**
Outdoor Air	1,1,1,2-Tetrachloroethane	1 µg/L	--	1.0E-09	--	1.0E-09	**9.8E+03**	--	9.2E-05	--	9.2E-05	**1.1E+04**
($RBC_{gw\text{-}outdoor\ inh}$)	1,1,1-Trichloroethane	1 µg/L	--	--	--	--	**--**	--	1.2E-05	--	1.2E-05	**8.0E+04**
	1,1,2-Trichloroethane	1 µg/L	--	2.8E-09	--	2.8E-09	**3.6E+03**	--	8.4E-04	--	8.4E-04	**1.2E+03**
	1,1-Dichloroethane	1 µg/L	--	3.3E-10	--	3.3E-10	**3.0E+04**	--	2.9E-05	--	2.9E-05	**3.5E+04**
	1,1-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	2.1E-04	--	2.1E-04	**4.8E+03**
	1,1-Dichloropropene	1 µg/L	--	3.1E-09	--	3.1E-09	**3.3E+03**	--	6.8E-04	--	6.8E-04	**1.5E+03**
	1,2,4-Trichlorobenzene	1 µg/L	--	--	--	--	**--**	--	3.0E-04	--	3.0E-04	**3.4E+03**
	1,2,4-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	2.2E-03	--	2.2E-03	**4.6E+02**
	1,2-Dibromo-3-chloropropane	1 µg/L	--	2.0E-07	--	2.0E-07	**5.0E+01**	--	3.5E-02	--	3.5E-02	**2.8E+01**
	1,2-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	5.8E-05	--	5.8E-05	**1.7E+04**
	1,2-Dichloroethane	1 µg/L	--	4.0E-09	--	4.0E-09	**2.5E+03**	--	2.8E-03	--	2.8E-03	**3.6E+02**
	1,3,5-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	2.2E-03	--	2.2E-03	**4.5E+02**
	1,3-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	1.1E-04	--	1.1E-04	**9.1E+03**
	1,4-Dichlorobenzene	1 µg/L	--	1.9E-09	--	1.9E-09	**5.3E+03**	--	1.5E-05	--	1.5E-05	**6.9E+04**

Table 5-5
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Construction Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**RBC_{cancer}**	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**$RBC_{noncancer}$**
Groundwater-to-Outdoor Air ($RBC_{gw\text{-}outdoor\ inh}$)	2-Butanone (MEK)	1 µg/L	--	--	--	--	**--**	--	1.1E-06	--	1.1E-06	**9.2E+05**
	2-Chlorotoluene	1 µg/L	--	--	--	--	**--**	--	1.8E-04	--	1.8E-04	**5.5E+03**
	Acenaphthene	1 µg/L	--	--	--	--	**--**	--	4.1E-05	--	4.1E-05	**2.4E+04**
	Acetone	1 µg/L	--	--	--	--	**--**	--	2.3E-06	--	2.3E-06	**4.3E+05**
	Benzene	1 µg/L	--	6.6E-09	--	6.6E-09	**1.5E+03**	--	2.7E-04	--	2.7E-04	**3.7E+03**
	Bromochloromethane	1 µg/L	--	--	--	--	**--**	--	1.7E-04	--	1.7E-04	**5.7E+03**
	Bromodichloromethane	1 µg/L	--	5.8E-09	--	5.8E-09	**1.7E+03**	--	1.6E-04	--	1.6E-04	**6.4E+03**
	Bromomethane	1 µg/L	--	--	--	--	**--**	--	2.9E-03	--	2.9E-03	**3.4E+02**
	Carbon Disulfide	1 µg/L	--	--	--	--	**--**	--	2.1E-05	--	2.1E-05	**4.8E+04**
	Carbon Tetrachloride	1 µg/L	--	7.1E-09	--	7.1E-09	**1.4E+03**	--	2.9E-04	--	2.9E-04	**3.4E+03**
	Chlorobenzene	1 µg/L	--	--	--	--	**--**	--	1.3E-05	--	1.3E-05	**7.5E+04**
	Chloroethane	1 µg/L	--	2.1E-10	--	2.1E-10	**4.7E+04**	--	5.9E-07	--	5.9E-07	**1.7E+06**
	Chloroform	1 µg/L	--	1.0E-09	--	1.0E-09	**9.9E+03**	--	4.4E-05	--	4.4E-05	**2.3E+04**
	Chloromethane	1 µg/L	--	--	--	--	**--**	--	2.2E-04	--	2.2E-04	**4.5E+03**
	cis-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	4.1E-04	--	4.1E-04	**2.4E+03**
	Dibromochloromethane	1 µg/L	--	3.6E-09	--	3.6E-09	**2.8E+03**	--	1.3E-04	--	1.3E-04	**7.4E+03**
	Dibromomethane	1 µg/L	--	--	--	--	**--**	--	3.0E-04	--	3.0E-04	**3.4E+03**
	Diisopropyl ether	1 µg/L	--	--	--	--	**--**	--	3.7E-05	--	3.7E-05	**2.7E+04**
	Ethylbenzene	1 µg/L	--	--	--	--	**--**	--	7.0E-06	--	7.0E-06	**1.4E+05**
	Ethyl-Tert-Butyl Ether	1 µg/L	--	--	--	--	**--**	--	4.7E-05	--	4.7E-05	**2.1E+04**
	Fluorene	1 µg/L	--	--	--	--	**--**	--	4.8E-05	--	4.8E-05	**2.1E+04**
	Freon-113	1 µg/L	--	--	--	--	**--**	--	3.5E-07	--	3.5E-07	**2.8E+06**
	Hexachlorobutadiene	1 µg/L	--	2.8E-09	--	2.8E-09	**3.5E+03**	--	8.5E-03	--	8.5E-03	**1.2E+02**
	Isopropylbenzene	1 µg/L	--	--	--	--	**--**	--	3.4E-05	--	3.4E-05	**2.9E+04**
	Methyl tertbutyl ether (MTBE)	1 µg/L	--	5.3E-11	--	5.3E-11	**1.9E+05**	--	1.8E-06	--	1.8E-06	**5.6E+05**
	Methylene Chloride	1 µg/L	--	2.2E-10	--	2.2E-10	**4.6E+04**	--	3.8E-05	--	3.8E-05	**2.6E+04**
	Naphthalene	1 µg/L	--	5.6E-09	--	5.6E-09	**1.8E+03**	--	1.3E-03	--	1.3E-03	**7.9E+02**
	n-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	8.9E-05	--	8.9E-05	**1.1E+04**
	n-Propylbenzene	1 µg/L	--	--	--	--	**--**	--	9.4E-05	--	9.4E-05	**1.1E+04**
	p-Isopropyltoluene	1 µg/L	--	--	--	--	**--**	--	3.2E-05	--	3.2E-05	**3.1E+04**
	Pyrene	1 µg/L	--	--	--	--	**--**	--	1.7E-05	--	1.7E-05	**5.8E+04**
	sec-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	8.9E-05	--	8.9E-05	**1.1E+04**
	Styrene	1 µg/L	--	--	--	--	**--**	--	1.5E-05	--	1.5E-05	**6.5E+04**
	tert-Butyl alcohol	1 µg/L	--	--	--	--	**--**	--	8.8E-06	--	8.8E-06	**1.1E+05**
	tert-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	8.9E-05	--	8.9E-05	**1.1E+04**
	Tetrachloroethene	1 µg/L	--	9.6E-10	--	9.6E-10	**1.0E+04**	--	3.2E-04	--	3.2E-04	**3.1E+03**
	Toluene	1 µg/L	--	--	--	--	**--**	--	5.0E-05	--	5.0E-05	**2.0E+04**
	trans-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	2.1E-04	--	2.1E-04	**4.8E+03**
	Trichloroethene	1 µg/L	--	3.6E-10	--	3.6E-10	**2.8E+04**	--	2.1E-05	--	2.1E-05	**4.8E+04**
	Vinyl Chloride	1 µg/L	--	2.0E-08	--	2.0E-08	**5.0E+02**	--	1.8E-04	--	1.8E-04	**5.5E+03**
	Xylenes	1 µg/L	--	--	--	--	**--**	--	2.0E-05	--	2.0E-05	**5.0E+04**

Notes and equations:
" -- " not applicable or not available; TR = target risk; THI = target noncancer hazard

RBC based on cancer effects:

$$RBC_{soil} = \frac{TR = 1\times10^{-5}}{(CR_{ingestion} + CR_{dermal} + CR_{inhalation})}$$

$$RBC_{gw\text{-}dermal} = \frac{TR = 1\times10^{-5}}{(CR_{dermal})}$$

$$RBC_{gw\text{-}outdoorinh} = \frac{TR = 1\times10^{-5}}{(CR_{inhalation})}$$

RBC based on noncancer effects:

$$RBC_{soil} = \frac{THI = 1}{(HQ_{ingestion} + HQ_{dermal} + HQ_{inhalation})}$$

$$RBC_{gw\text{-}dermal} = \frac{THI = 1}{(HQ_{dermal})}$$

$$RBC_{gw\text{-}outdoorinh} = \frac{THI = 1}{(HQ_{inhalation})}$$

Table 5-6
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Trench Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Soil:	**Inorganics**											
Incidental ingestion	Antimony	1 mg/kg	--	--	--	--	**--**	2.9E-04	--	1.4E-05	3.1E-04	**3.3E+03**
Dermal contact	Arsenic	1 mg/kg	1.6E-08	1.1E-11	2.2E-09	1.8E-08	**5.5E+02**	3.9E-04	7.2E-06	5.4E-05	4.5E-04	**2.2E+03**
Outdoor Inhalation	Barium	1 mg/kg	--	--	--	--	**--**	1.7E-06	4.4E-07	7.8E-08	2.2E-06	**4.6E+05**
(RBC_{soil})	Beryllium	1 mg/kg	--	7.5E-12	--	7.5E-12	**1.3E+06**	5.9E-05	3.1E-05	2.7E-06	9.3E-05	**1.1E+04**
	Cadmium	1 mg/kg	--	1.3E-11	--	1.3E-11	**7.5E+05**	1.2E-04	1.1E-05	5.4E-07	1.3E-04	**7.8E+03**
	Chromium	1 mg/kg	--	--	--	--	**--**	7.8E-08	--	3.6E-09	8.2E-08	**1.2E+07**
	Chromium, Hexavalent	1 mg/kg	--	4.5E-10	--	4.5E-10	**2.2E+04**	3.9E-05	1.1E-06	0.0E+00	4.0E-05	**2.5E+04**
	Cobalt	1 mg/kg	--	--	--	--	**--**	5.9E-06	1.1E-05	2.7E-07	1.7E-05	**5.9E+04**
	Copper	1 mg/kg	--	--	--	--	**--**	2.9E-06	--	1.4E-07	3.1E-06	**3.3E+05**
	Cyanide (Amenable)	1 mg/kg	--	--	--	--	**--**	5.9E-06	--	2.7E-06	8.6E-06	**1.2E+05**
	Cyanide (Total)	1 mg/kg	--	--	--	--	**--**	5.9E-06	--	2.7E-06	8.6E-06	**1.2E+05**
	Mercury	1 mg/kg	--	--	--	--	**--**	3.9E-04	2.4E-06	1.8E-05	4.1E-04	**2.4E+03**
	Molybdenum	1 mg/kg	--	--	--	--	**--**	2.3E-05	--	1.1E-06	2.5E-05	**4.1E+04**
	Nickel	1 mg/kg	--	8.1E-13	--	8.1E-13	**1.2E+07**	5.9E-06	4.4E-06	2.7E-07	1.0E-05	**9.5E+04**
	Selenium	1 mg/kg	--	--	--	--	**--**	2.3E-05	1.1E-08	1.1E-06	2.5E-05	**4.1E+04**
	Silver	1 mg/kg	--	--	--	--	**--**	2.3E-05	--	1.1E-06	2.5E-05	**4.1E+04**
	Thallium	1 mg/kg	--	--	--	--	**--**	1.8E-03	--	8.3E-05	1.9E-03	**5.4E+02**
	Vanadium	1 mg/kg	--	--	--	--	**--**	1.2E-04	--	5.4E-06	1.2E-04	**8.1E+03**
	Zinc	1 mg/kg	--	--	--	--	**--**	3.9E-07	--	1.8E-08	4.1E-07	**2.4E+06**
	PAHs											
	2-Methylnaphthalene	1 mg/kg	--	--	--	--	**--**	3.9E-06	2.1E-09	2.7E-06	6.6E-06	**1.5E+05**
	Anthracene	1 mg/kg	--	--	--	--	**--**	3.9E-07	2.1E-10	2.7E-07	6.6E-07	**1.5E+06**
	Benzo(a)anthracene	1 mg/kg	2.0E-09	3.5E-13	1.4E-09	3.4E-09	**2.9E+03**	--	--	--	--	**--**
	Benzo(a)Pyrene	1 mg/kg	2.0E-08	3.5E-12	1.4E-08	3.4E-08	**2.9E+02**	--	--	--	--	**--**
	Benzo(b)Fluoranthene	1 mg/kg	2.0E-09	3.5E-13	1.4E-09	3.4E-09	**2.9E+03**	--	--	--	--	**--**
	Benzo(k)Fluoranthene	1 mg/kg	2.0E-09	3.5E-13	1.4E-09	3.4E-09	**2.9E+03**	--	--	--	--	**--**
	Benzo(g,h,i)Perylene	1 mg/kg	--	--	--	--	**--**	3.9E-06	2.1E-09	2.7E-06	6.6E-06	**1.5E+05**
	Chrysene	1 mg/kg	2.0E-10	3.5E-14	1.4E-10	3.4E-10	**2.9E+04**	--	--	--	--	**--**
	Dibenz(a,h)anthracene	1 mg/kg	2.0E-08	3.5E-12	1.4E-08	3.4E-08	**2.9E+02**	--	--	--	--	**--**
	Fluoranthene	1 mg/kg	--	--	--	--	**--**	2.9E-06	1.6E-09	2.0E-06	5.0E-06	**2.0E+05**
	Indeno(1,2,3-cd)pyrene	1 mg/kg	2.0E-09	3.5E-13	1.4E-09	3.4E-09	**2.9E+03**	--	--	--	--	**--**
	Phenanthrene	1 mg/kg	--	--	--	--	**--**	3.9E-07	2.1E-10	2.7E-07	6.6E-07	**1.5E+06**
	PCBs											
	Aroclor 1016	1 mg/kg	1.2E-10	6.2E-14	8.2E-11	2.0E-10	**5.0E+04**	1.7E-03	8.9E-07	1.2E-03	2.8E-03	**3.5E+02**
	Aroclor 1242	1 mg/kg	8.4E-09	1.8E-12	5.8E-09	1.4E-08	**7.0E+02**	5.9E-03	3.1E-06	4.1E-03	1.0E-02	**1.0E+02**
	Aroclor 1248	1 mg/kg	8.4E-09	1.8E-12	5.8E-09	1.4E-08	**7.0E+02**	5.9E-03	3.1E-06	4.1E-03	1.0E-02	**1.0E+02**
	Aroclor 1254	1 mg/kg	8.4E-09	1.8E-12	5.8E-09	1.4E-08	**7.0E+02**	5.9E-03	3.1E-06	4.1E-03	1.0E-02	**1.0E+02**
	Aroclor 1260	1 mg/kg	8.4E-09	1.8E-12	5.8E-09	1.4E-08	**7.0E+02**	5.9E-03	3.1E-06	4.1E-03	1.0E-02	**1.0E+02**
	Aroclor 1262	1 mg/kg	8.4E-09	1.8E-12	5.8E-09	1.4E-08	**7.0E+02**	5.9E-03	3.1E-06	4.1E-03	1.0E-02	**1.0E+02**
	Perchlorate											
	Perchlorate	1 mg/kg	--	--	--	--	**--**	1.7E-04	--	0.0E+00	1.7E-04	**6.0E+03**
	SVOCs											
	1,4-Dioxane	1 mg/kg	4.5E-11	2.4E-14	2.1E-11	6.6E-11	**1.5E+05**	--	7.3E-11	--	7.3E-11	**1.4E+10**
	4-Chloro-3-methylphenol	1 mg/kg	--	--	--	--	**--**	1.2E-06	--	5.4E-07	1.7E-06	**5.8E+05**
	Aniline	1 mg/kg	9.6E-12	5.1E-15	4.4E-12	1.4E-11	**7.1E+05**	1.7E-05	2.2E-07	7.8E-06	2.5E-05	**4.0E+04**
	Benzoic Acid	1 mg/kg	--	--	--	--	**--**	2.9E-08	1.6E-11	1.4E-08	4.3E-08	**2.3E+07**
	Bis(2-ethylhexyl)Phthalate	1 mg/kg	5.0E-12	7.5E-15	2.3E-12	7.4E-12	**1.4E+06**	5.9E-06	3.1E-09	2.7E-06	8.6E-06	**1.2E+05**
	Diethylphthalate	1 mg/kg	--	--	--	--	**--**	1.5E-07	7.8E-11	6.8E-08	2.1E-07	**4.7E+06**

Table 5-6
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Trench Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Soil:	Diisopropyl Ether	1 mg/kg	--	--	--	--	**--**	--	3.3E-04	--	3.3E-04	**3.0E+03**
Incidental ingestion	Dimethyl Phthalate	1 mg/kg	--	--	--	--	**--**	1.2E-08	6.2E-12	5.4E-09	1.7E-08	**5.8E+07**
Dermal contact	Di-n-butylphthalate	1 mg/kg	--	--	--	--	**--**	1.2E-06	6.2E-10	5.4E-07	1.7E-06	**5.8E+05**
Outdoor Inhalation	Phenol	1 mg/kg	--	--	--	--	**--**	3.9E-07	1.1E-09	1.8E-07	5.7E-07	**1.7E+06**
(RBC_{soil})	**TPH**											
	TPH - aliphatic; C5-C8	1 mg/kg	--	--	--	--	**--**	2.9E-06	1.0E-09	2.0E-06	5.0E-06	**2.0E+05**
	TPH - aliphatic; C9-C18	1 mg/kg	--	--	--	--	**--**	1.2E-06	2.1E-10	8.2E-07	2.0E-06	**5.0E+05**
	TPH - aliphatic; C≥19	1 mg/kg	--	--	--	--	**--**	5.9E-08	2.1E-10	4.1E-08	1.0E-07	**1.0E+07**
	TPH - aromatic; C5-C8	1 mg/kg	--	--	--	--	**--**	--	--	--	--	**--**
	TPH - aromatic; C9-C18	1 mg/kg	--	--	--	--	**--**	3.9E-06	1.0E-08	2.7E-06	6.6E-06	**1.5E+05**
	TPH - aromatic; C≥19	1 mg/kg	--	--	--	--	**--**	3.9E-06	--	2.7E-06	6.6E-06	**1.5E+05**
	VOCs											
	1,1,1,2-Tetrachloroethane	1 mg/kg	4.4E-11	3.8E-09	2.0E-11	3.9E-09	**2.6E+03**	3.9E-06	3.4E-04	1.8E-06	3.5E-04	**2.9E+03**
	1,1,1-Trichloroethane	1 mg/kg	--	--	--	--	**--**	4.2E-07	2.0E-04	1.9E-07	2.1E-04	**4.9E+03**
	1,1,2-Trichloroethane	1 mg/kg	1.2E-10	1.8E-08	5.6E-11	1.8E-08	**5.6E+02**	2.9E-05	5.5E-03	1.4E-05	5.5E-03	**1.8E+02**
	1,1-Dichloroethane	1 mg/kg	9.6E-12	4.3E-09	4.4E-12	4.3E-09	**2.3E+03**	1.2E-06	3.7E-04	5.4E-07	3.7E-04	**2.7E+03**
	1,1-Dichloroethene	1 mg/kg	--	--	--	--	**--**	2.3E-06	4.0E-03	1.1E-06	4.0E-03	**2.5E+02**
	1,1-Dichloropropene	1 mg/kg	1.5E-10	4.9E-14	7.1E-11	2.2E-10	**4.5E+04**	3.9E-06	1.1E-08	1.8E-06	5.7E-06	**1.7E+05**
	1,2,4-Trichlorobenzene	1 mg/kg	--	--	--	--	**--**	1.2E-05	5.4E-04	5.4E-06	5.6E-04	**1.8E+03**
	1,2,4-Trimethylbenzene	1 mg/kg	--	--	--	--	**--**	2.3E-06	4.5E-03	1.1E-06	4.5E-03	**2.2E+02**
	1,2-Dibromo-3-chloropropane	1 mg/kg	1.2E-08	3.2E-07	5.4E-09	3.4E-07	**2.9E+01**	2.1E-03	5.7E-02	9.6E-04	6.0E-02	**1.7E+01**
	1,2-Dichlorobenzene	1 mg/kg	--	--	--	--	**--**	1.3E-06	1.8E-04	6.1E-07	1.8E-04	**5.5E+03**
	1,2-Dichloroethane	1 mg/kg	7.9E-11	3.5E-08	3.7E-11	3.5E-08	**2.8E+02**	5.9E-06	2.4E-02	2.7E-06	2.4E-02	**4.1E+01**
	1,3,5-Trimethylbenzene	1 mg/kg	--	--	--	--	**--**	2.3E-06	1.1E-02	1.1E-06	1.1E-02	**9.2E+01**
	1,3-Dichlorobenzene	1 mg/kg	--	--	--	--	**--**	3.9E-06	3.4E-04	1.8E-06	3.5E-04	**2.9E+03**
	1,4-Dichlorobenzene	1 mg/kg	9.1E-12	6.6E-09	4.2E-12	6.6E-09	**1.5E+03**	3.9E-06	5.0E-05	1.8E-06	5.6E-05	**1.8E+04**
	2-Butanone (MEK)	1 mg/kg	--	--	--	--	**--**	2.0E-07	4.8E-06	9.1E-08	5.1E-06	**2.0E+05**
	2-Chlorotoluene	1 mg/kg	--	--	--	--	**--**	5.9E-06	1.3E-03	2.7E-06	1.3E-03	**7.7E+02**
	Acenaphthene	1 mg/kg	--	--	--	--	**--**	2.0E-06	1.4E-05	1.4E-06	1.7E-05	**5.8E+04**
	Acetone	1 mg/kg	--	--	--	--	**--**	1.3E-07	1.1E-05	6.1E-08	1.1E-05	**8.7E+04**
	Benzene	1 mg/kg	1.7E-10	7.0E-08	7.8E-11	7.0E-08	**1.4E+02**	2.9E-05	2.9E-03	1.4E-05	2.9E-03	**3.4E+02**
	Bromochloromethane	1 mg/kg	--	--	--	--	**--**	5.9E-06	1.3E-03	2.7E-06	1.3E-03	**7.7E+02**
	Bromodichloromethane	1 mg/kg	2.2E-10	3.2E-08	1.0E-10	3.2E-08	**3.1E+02**	5.9E-06	8.5E-04	2.7E-06	8.6E-04	**1.2E+03**
	Bromomethane	1 mg/kg	--	--	--	--	**--**	8.4E-05	4.5E-02	3.9E-05	4.5E-02	**2.2E+01**
	Carbon Disulfide	1 mg/kg	--	--	--	--	**--**	1.2E-06	4.1E-04	5.4E-07	4.1E-04	**2.5E+03**
	Carbon Tetrachloride	1 mg/kg	2.5E-10	1.3E-07	1.2E-10	1.3E-07	**7.5E+01**	1.7E-04	5.4E-03	7.8E-05	5.7E-03	**1.8E+02**
	Chlorobenzene	1 mg/kg	--	--	--	--	**--**	5.9E-06	8.1E-05	2.7E-06	9.0E-05	**1.1E+04**
	Chloroethane	1 mg/kg	4.9E-12	3.5E-09	2.3E-12	3.5E-09	**2.8E+03**	2.9E-07	9.9E-06	1.4E-07	1.0E-05	**9.7E+04**
	Chloroform	1 mg/kg	5.2E-11	1.4E-08	2.4E-11	1.4E-08	**7.3E+02**	1.2E-05	5.9E-04	5.4E-06	6.0E-04	**1.7E+03**
	Chloromethane	1 mg/kg	--	--	--	--	**--**	4.6E-06	3.4E-03	2.1E-06	3.5E-03	**2.9E+02**
	cis-1,2-Dichloroethene	1 mg/kg	--	--	--	--	**--**	1.2E-05	4.5E-03	5.4E-06	4.6E-03	**2.2E+02**
	Dibromochloromethane	1 mg/kg	1.6E-10	1.5E-08	7.3E-11	1.5E-08	**6.5E+02**	5.9E-06	5.7E-04	2.7E-06	5.7E-04	**1.7E+03**
	Dibromomethane	1 mg/kg	--	--	--	--	**--**	1.2E-05	1.6E-03	5.4E-06	1.6E-03	**6.1E+02**
	Diisopropyl ether	1 mg/kg	--	--	--	--	**--**	--	3.3E-04	--	3.3E-04	**3.0E+03**
	Ethylbenzene	1 mg/kg	--	--	--	--	**--**	1.2E-06	4.7E-05	5.4E-07	4.9E-05	**2.0E+04**
	Ethyl-Tert-Butyl Ether	1 mg/kg	--	--	--	--	**--**	1.2E-04	4.1E-04	5.4E-05	5.8E-04	**1.7E+03**
	Fluorene	1 mg/kg	--	--	--	--	**--**	2.9E-06	1.0E-05	2.0E-06	1.5E-05	**6.5E+04**
	Freon-113	1 mg/kg	--	--	--	--	**--**	3.9E-09	6.8E-06	1.8E-09	6.8E-06	**1.5E+05**
	Hexachlorobutadiene	1 mg/kg	1.3E-10	1.9E-08	6.1E-11	1.9E-08	**5.3E+02**	3.9E-04	5.6E-02	1.8E-04	5.6E-02	**1.8E+01**

Table 5-6
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Trench Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Soil:	Isopropylbenzene	1 mg/kg	--	--	--	--	**--**	1.2E-06	3.6E-04	5.4E-07	3.6E-04	**2.8E+03**
Incidental ingestion	Methyl tertbutyl ether (MTBE)	1 mg/kg	3.0E-12	3.6E-10	1.4E-12	3.6E-10	**2.8E+04**	1.4E-07	1.2E-05	6.4E-08	1.2E-05	**8.1E+04**
Dermal contact	Methylene Chloride	1 mg/kg	2.3E-11	2.6E-09	1.1E-11	2.6E-09	**3.9E+03**	2.0E-06	4.5E-04	9.1E-07	4.5E-04	**2.2E+03**
Outdoor Inhalation	Naphthalene	1 mg/kg	2.0E-10	6.0E-09	1.4E-10	6.3E-09	**1.6E+03**	5.9E-06	1.4E-03	4.1E-06	1.4E-03	**7.3E+02**
(RBC_{soil})	n-Butylbenzene	1 mg/kg	--	--	--	--	**--**	2.9E-06	3.3E-04	1.4E-06	3.3E-04	**3.0E+03**
	n-Propylbenzene	1 mg/kg	--	--	--	--	**--**	2.9E-06	3.3E-04	1.4E-06	3.3E-04	**3.0E+03**
	p-Isopropyltoluene	1 mg/kg	--	--	--	--	**--**	1.2E-06	1.1E-04	5.4E-07	1.1E-04	**9.1E+03**
	Pyrene	1 mg/kg	--	--	--	--	**--**	3.9E-06	1.3E-06	1.8E-06	7.0E-06	**1.4E+05**
	sec-Butylbenzene	1 mg/kg	--	--	--	--	**--**	2.9E-06	4.5E-04	1.4E-06	4.5E-04	**2.2E+03**
	Styrene	1 mg/kg	--	--	--	--	**--**	5.9E-07	4.3E-05	2.7E-07	4.4E-05	**2.3E+04**
	tert-Butyl alcohol	1 mg/kg	--	--	--	--	**--**	3.9E-07	3.6E-05	1.8E-07	3.6E-05	**2.8E+04**
	tert-Butylbenzene	1 mg/kg	--	--	--	--	**--**	2.9E-06	3.7E-04	1.4E-06	3.7E-04	**2.7E+03**
	Tetrachloroethene	1 mg/kg	9.1E-10	1.6E-08	4.2E-10	1.7E-08	**5.9E+02**	1.2E-05	5.2E-03	5.4E-06	5.2E-03	**1.9E+02**
	Toluene	1 mg/kg	--	--	--	--	**--**	5.9E-07	4.2E-04	2.7E-07	4.2E-04	**2.4E+03**
	trans-1,2-Dichloroethene	1 mg/kg	--	--	--	--	**--**	5.9E-06	2.7E-03	2.7E-06	2.8E-03	**3.6E+02**
	Trichloroethene	1 mg/kg	2.2E-11	4.3E-09	1.0E-11	4.3E-09	**2.3E+03**	3.9E-04	2.5E-04	1.8E-04	8.2E-04	**1.2E+03**
	Vinyl Chloride	1 mg/kg	4.5E-10	3.8E-07	2.1E-10	3.8E-07	**2.6E+01**	3.9E-05	3.5E-03	1.8E-05	3.5E-03	**2.8E+02**
	Xylenes	1 mg/kg	--	--	--	--	**--**	5.9E-07	1.2E-04	2.7E-07	1.2E-04	**8.3E+03**
Groundwater:	**Inorganics**						**µg/L**					**µg/L**
Dermal Contact	Antimony	1 µg/L	--	--	--	--	**--**	--	--	3.4E-05	3.4E-05	**2.9E+04**
($RBC_{gw\text{-}dermal}$)	Arsenic	1 µg/L	--	--	1.8E-09	1.8E-09	**5.4E+03**	--	--	4.5E-05	4.5E-05	**2.2E+04**
	Barium	1 µg/L	--	--	--	--	**--**	--	--	1.9E-07	1.9E-07	**5.1E+06**
	Beryllium	1 µg/L	--	--	--	--	**--**	--	--	6.8E-06	6.8E-06	**1.5E+05**
	Cadmium	1 µg/L	--	--	--	--	**--**	--	--	2.7E-05	2.7E-05	**3.7E+04**
	Chromium	1 µg/L	--	--	--	--	**--**	--	--	9.1E-09	9.1E-09	**1.1E+08**
	Chromium, Hexavalent	1 µg/L	--	--	--	--	**--**	--	--	9.1E-06	9.1E-06	**1.1E+05**
	Cobalt	1 µg/L	--	--	--	--	**--**	--	--	6.8E-07	6.8E-07	**1.5E+06**
	Copper	1 µg/L	--	--	--	--	**--**	--	--	3.4E-07	3.4E-07	**2.9E+06**
	Cyanide (Amenable)	1 µg/L	--	--	--	--	**--**	--	--	6.8E-07	6.8E-07	**1.5E+06**
	Cyanide (Total)	1 µg/L	--	--	--	--	**--**	--	--	6.8E-07	6.8E-07	**1.5E+06**
	Mercury	1 µg/L	--	--	--	--	**--**	--	--	4.5E-05	4.5E-05	**2.2E+04**
	Molybdenum	1 µg/L	--	--	--	--	**--**	--	--	2.7E-06	2.7E-06	**3.7E+05**
	Nickel	1 µg/L	--	--	--	--	**--**	--	--	1.4E-07	1.4E-07	**7.3E+06**
	Selenium	1 µg/L	--	--	--	--	**--**	--	--	2.7E-06	2.7E-06	**3.7E+05**
	Silver	1 µg/L	--	--	--	--	**--**	--	--	2.7E-06	2.7E-06	**3.7E+05**
	Thallium	1 µg/L	--	--	--	--	**--**	--	--	2.1E-04	2.1E-04	**4.8E+03**
	Vanadium	1 µg/L	--	--	--	--	**--**	--	--	1.4E-05	1.4E-05	**7.3E+04**
	Zinc	1 µg/L	--	--	--	--	**--**	--	--	2.7E-08	2.7E-08	**3.7E+07**
	PAHs											
	2-Methylnaphthalene	1 µg/L	--	--	--	--	**--**	--	--	6.8E-05	6.8E-05	**1.5E+04**
	Anthracene	1 µg/L	--	--	--	--	**--**	--	--	1.3E-05	1.3E-05	**7.7E+04**
	Benzo(a)anthracene	1 µg/L	--	--	3.1E-07	3.1E-07	**3.2E+01**	--	--	--	--	**--**
	Benzo(a)Pyrene	1 µg/L	--	--	5.3E-06	5.3E-06	**1.9E+00**	--	--	--	--	**--**
	Benzo(b)Fluoranthene	1 µg/L	--	--	5.3E-07	5.3E-07	**1.9E+01**	--	--	--	--	**--**
	Benzo(k)Fluoranthene	1 µg/L	--	--	5.3E-07	5.3E-07	**1.9E+01**	--	--	--	--	**--**
	Benzo(g,h,i)Perylene	1 µg/L	--	--	--	--	**--**	--	--	1.9E-03	1.9E-03	**5.2E+02**
	Chrysene	1 µg/L	--	--	3.1E-08	3.1E-08	**3.2E+02**	--	--	--	--	**--**
	Dibenz(a,h)anthracene	1 µg/L	--	--	8.1E-06	8.1E-06	**1.2E+00**	--	--	--	--	**--**
	Fluoranthene	1 µg/L	--	--	--	--	**--**	--	--	1.8E-04	1.8E-04	**5.6E+03**
	Indeno(1,2,3-cd)pyrene	1 µg/L	--	--	5.5E-07	5.5E-07	**1.8E+01**	--	--	--	--	**--**
	Phenanthrene	1 µg/L	--	--	--	--	**--**	--	--	1.3E-05	1.3E-05	**7.6E+04**

Table 5-6
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Trench Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Groundwater:	**PCBs**						**µg/L**					**µg/L**
Dermal Contact	Aroclor 1016	1 µg/L	--	--	1.4E-08	1.4E-08	**7.1E+02**	--	--	2.0E-01	2.0E-01	**5.0E+00**
($RBC_{gw\text{-}dermal}$)	Aroclor 1242	1 µg/L	--	--	2.2E-06	2.2E-06	**4.5E+00**	--	--	1.6E+00	1.6E+00	**6.4E-01**
	Aroclor 1248	1 µg/L	--	--	2.4E-06	2.4E-06	**4.2E+00**	--	--	1.7E+00	1.7E+00	**5.9E-01**
	Aroclor 1254	1 µg/L	--	--	3.8E-06	3.8E-06	**2.6E+00**	--	--	2.7E+00	2.7E+00	**3.7E-01**
	Aroclor 1260	1 µg/L	--	--	2.4E-05	2.4E-05	**4.2E-01**	--	--	1.7E+01	1.7E+01	**6.0E-02**
	Aroclor 1262	1 µg/L	--	--	2.4E-05	2.4E-05	**4.2E-01**	--	--	1.7E+01	1.7E+01	**6.0E-02**
	Perchlorate											
	Perchlorate	1 µg/L	--	--	--	--	**--**	--	--	9.9E-06	9.9E-06	**1.0E+05**
	SVOCs											
	1,4-Dioxane	1 µg/L	--	--	2.3E-12	2.3E-12	**4.3E+06**	--	--	--	--	**--**
	4-Chloro-3-methylphenol	1 µg/L	--	--	--	--	**--**	--	--	6.4E-06	6.4E-06	**1.6E+05**
	Aniline	1 µg/L	--	--	2.8E-12	2.8E-12	**3.6E+06**	--	--	4.9E-06	4.9E-06	**2.0E+05**
	Benzoic Acid	1 µg/L	--	--	--	--	**--**	--	--	2.9E-08	2.9E-08	**3.4E+07**
	Bis(2-ethylhexyl)Phthalate	1 µg/L	--	--	9.3E-11	9.3E-11	**1.1E+05**	--	--	1.1E-04	1.1E-04	**9.2E+03**
	Diethylphthalate	1 µg/L	--	--	--	--	**--**	--	--	1.8E-07	1.8E-07	**5.6E+06**
	Diisopropyl Ether	1 µg/L	--	--	--	--	**--**	--	--	--	--	**--**
	Dimethyl Phthalate	1 µg/L	--	--	--	--	**--**	--	--	4.2E-09	4.2E-09	**2.4E+08**
	Di-n-butylphthalate	1 µg/L	--	--	--	--	**--**	--	--	1.1E-05	1.1E-05	**8.9E+04**
	Phenol	1 µg/L	--	--	--	--	**--**	--	--	2.7E-07	2.7E-07	**3.8E+06**
	TPH											
	TPH - aliphatic; C5-C8	1 µg/L	--	--	--	--	**--**	--	--	1.6E-05	1.6E-05	**6.3E+04**
	TPH - aliphatic; C9-C18	1 µg/L	--	--	--	--	**--**	--	--	6.3E-06	6.3E-06	**1.6E+05**
	TPH - aliphatic; C≥19	1 µg/L	--	--	--	--	**--**	--	--	3.2E-07	3.2E-07	**3.2E+06**
	TPH - aromatic; C5-C8	1 µg/L	--	--	--	--	**--**	--	--	--	--	**--**
	TPH - aromatic; C9-C18	1 µg/L	--	--	--	--	**--**	--	--	2.1E-05	2.1E-05	**4.7E+04**
	TPH - aromatic; C≥19	1 µg/L	--	--	--	--	**--**	--	--	2.1E-05	2.1E-05	**4.7E+04**
	VOCs											
	1,1,1,2-Tetrachloroethane	1 µg/L	--	--	1.5E-10	1.5E-10	**6.6E+04**	--	--	1.4E-05	1.4E-05	**7.4E+04**
	1,1,1-Trichloroethane	1 µg/L	--	--	--	--	**--**	--	--	9.7E-07	9.7E-07	**1.0E+06**
	1,1,2-Trichloroethane	1 µg/L	--	--	1.4E-10	1.4E-10	**7.0E+04**	--	--	3.5E-05	3.5E-05	**2.9E+04**
	1,1-Dichloroethane	1 µg/L	--	--	1.0E-11	1.0E-11	**9.8E+05**	--	--	1.3E-06	1.3E-06	**8.0E+05**
	1,1-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	--	4.3E-06	4.3E-06	**2.3E+05**
	1,1-Dichloropropene	1 µg/L	--	--	1.1E-10	1.1E-10	**9.1E+04**	--	--	2.8E-06	2.8E-06	**3.5E+05**
	1,2,4-Trichlorobenzene	1 µg/L	--	--	--	--	**--**	--	--	1.9E-04	1.9E-04	**5.4E+03**
	1,2,4-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	--	3.3E-05	3.3E-05	**3.0E+04**
	1,2-Dibromo-3-chloropropane	1 µg/L	--	--	2.7E-08	2.7E-08	**3.7E+02**	--	--	4.8E-03	4.8E-03	**2.1E+02**
	1,2-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	--	1.1E-05	1.1E-05	**9.5E+04**
	1,2-Dichloroethane	1 µg/L	--	--	5.3E-11	5.3E-11	**1.9E+05**	--	--	3.9E-06	3.9E-06	**2.5E+05**
	1,3,5-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	--	2.4E-05	2.4E-05	**4.2E+04**
	1,3-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	--	4.4E-05	4.4E-05	**2.3E+04**
	1,4-Dichlorobenzene	1 µg/L	--	--	7.4E-11	7.4E-11	**1.3E+05**	--	--	3.2E-05	3.2E-05	**3.1E+04**
	2-Butanone (MEK)	1 µg/L	--	--	--	--	**--**	--	--	2.8E-08	2.8E-08	**3.6E+07**
	2-Chlorotoluene	1 µg/L	--	--	--	--	**--**	--	--	5.8E-05	5.8E-05	**1.7E+04**
	Acenaphthene	1 µg/L	--	--	--	--	**--**	--	--	3.5E-05	3.5E-05	**2.9E+04**
	Acetone	1 µg/L	--	--	--	--	**--**	--	--	9.5E-09	9.5E-09	**1.1E+08**
	Benzene	1 µg/L	--	--	3.6E-10	3.6E-10	**2.7E+04**	--	--	6.4E-05	6.4E-05	**1.6E+04**
	Bromochloromethane	1 µg/L	--	--	--	--	**--**	--	--	2.7E-06	2.7E-06	**3.7E+05**
	Bromodichloromethane	1 µg/L	--	--	2.1E-10	2.1E-10	**4.7E+04**	--	--	5.8E-06	5.8E-06	**1.7E+05**

Table 5-6
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Trench Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Groundwater:	Bromomethane	1 µg/L	--	--	--	--	**--**	--	--	3.7E-05	3.7E-05	**2.7E+04**
Dermal Contact	Carbon Disulfide	1 µg/L	--	--	--	--	**--**	--	--	2.9E-06	2.9E-06	**3.4E+05**
($RBC_{gw\text{-}dermal}$)	Carbon Tetrachloride	1 µg/L	--	--	8.4E-10	8.4E-10	**1.2E+04**	--	--	5.6E-04	5.6E-04	**1.8E+03**
	Chlorobenzene	1 µg/L	--	--	--	--	**--**	--	--	2.7E-05	2.7E-05	**3.7E+04**
	Chloroethane	1 µg/L	--	--	4.2E-12	4.2E-12	**2.4E+06**	--	--	2.5E-07	2.5E-07	**3.9E+06**
	Chloroform	1 µg/L	--	--	6.1E-11	6.1E-11	**1.6E+05**	--	--	1.4E-05	1.4E-05	**7.2E+04**
	Chloromethane	1 µg/L	--	--	--	--	**--**	--	--	2.1E-06	2.1E-06	**4.8E+05**
	cis-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	--	2.0E-05	2.0E-05	**5.0E+04**
	Dibromochloromethane	1 µg/L	--	--	1.4E-10	1.4E-10	**6.9E+04**	--	--	5.4E-06	5.4E-06	**1.9E+05**
	Dibromomethane	1 µg/L	--	--	--	--	**--**	--	--	6.0E-06	6.0E-06	**1.7E+05**
	Diisopropyl ether	1 µg/L	--	--	--	--	**--**	--	--	--	--	**--**
	Ethylbenzene	1 µg/L	--	--	--	--	**--**	--	--	9.0E-06	9.0E-06	**1.1E+05**
	Ethyl-Tert-Butyl Ether	1 µg/L	--	--	--	--	**--**	--	--	1.4E-04	1.4E-04	**7.1E+03**
	Fluorene	1 µg/L	--	--	--	--	**--**	--	--	7.0E-05	7.0E-05	**1.4E+04**
	Freon-113	1 µg/L	--	--	--	--	**--**	--	--	1.7E-08	1.7E-08	**5.9E+07**
	Hexachlorobutadiene	1 µg/L	--	--	3.8E-09	3.8E-09	**2.6E+03**	--	--	1.1E-02	1.1E-02	**8.8E+01**
	Isopropylbenzene	1 µg/L	--	--	--	--	**--**	--	--	1.7E-05	1.7E-05	**5.8E+04**
	Methyl tertbutyl ether (MTBE)	1 µg/L	--	--	1.0E-12	1.0E-12	**9.9E+06**	--	--	4.6E-08	4.6E-08	**2.2E+07**
	Methylene Chloride	1 µg/L	--	--	1.3E-11	1.3E-11	**7.9E+05**	--	--	1.1E-06	1.1E-06	**9.5E+05**
	Naphthalene	1 µg/L	--	--	1.6E-09	1.6E-09	**6.1E+03**	--	--	4.8E-05	4.8E-05	**2.1E+04**
	n-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	--	1.0E-04	1.0E-04	**9.7E+03**
	n-Propylbenzene	1 µg/L	--	--	--	--	**--**	--	--	4.8E-05	4.8E-05	**2.1E+04**
	p-Isopropyltoluene	1 µg/L	--	--	--	--	**--**	--	--	3.3E-05	3.3E-05	**3.1E+04**
	Pyrene	1 µg/L	--	--	--	--	**--**	--	--	2.1E-04	2.1E-04	**4.7E+03**
	sec-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	--	7.6E-05	7.6E-05	**1.3E+04**
	Styrene	1 µg/L	--	--	--	--	**--**	--	--	3.4E-06	3.4E-06	**2.9E+05**
	tert-Butyl alcohol	1 µg/L	--	--	--	--	**--**	--	--	1.0E-07	1.0E-07	**1.0E+07**
	tert-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	--	8.7E-05	8.7E-05	**1.1E+04**
	Tetrachloroethene	1 µg/L	--	--	6.5E-09	6.5E-09	**1.5E+03**	--	--	8.5E-05	8.5E-05	**1.2E+04**
	Toluene	1 µg/L	--	--	--	--	**--**	--	--	2.7E-06	2.7E-06	**3.7E+05**
	trans-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	--	1.0E-05	1.0E-05	**9.9E+04**
	Trichloroethene	1 µg/L	--	--	4.6E-11	4.6E-11	**2.2E+05**	--	--	8.3E-04	8.3E-04	**1.2E+03**
	Vinyl Chloride	1 µg/L	--	--	3.6E-10	3.6E-10	**2.8E+04**	--	--	3.1E-05	3.1E-05	**3.2E+04**
	Xylenes	1 µg/L	--	--	--	--	**--**	--	--	4.8E-06	4.8E-06	**2.1E+05**
Groundwater-to-	**VOCs**						**µg/L**					**µg/L**
Outdoor Air	1,1,1,2-Tetrachloroethane	1 µg/L	--	1.5E-10	--	1.5E-10	**6.5E+04**	--	1.4E-05	--	1.4E-05	**7.2E+04**
($RBC_{gw\text{-}outdoor\ inh}$)	1,1,1-Trichloroethane	1 µg/L	--	--	--	--	**--**	--	1.9E-06	--	1.9E-06	**5.3E+05**
	1,1,2-Trichloroethane	1 µg/L	--	4.1E-10	--	4.1E-10	**2.4E+04**	--	1.3E-04	--	1.3E-04	**7.9E+03**
	1,1-Dichloroethane	1 µg/L	--	5.0E-11	--	5.0E-11	**2.0E+05**	--	4.3E-06	--	4.3E-06	**2.3E+05**
	1,1-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	3.1E-05	--	3.1E-05	**3.2E+04**
	1,1-Dichloropropene	1 µg/L	--	4.6E-10	--	4.6E-10	**2.2E+04**	--	1.0E-04	--	1.0E-04	**9.7E+03**
	1,2,4-Trichlorobenzene	1 µg/L	--	--	--	--	**--**	--	4.4E-05	--	4.4E-05	**2.3E+04**
	1,2,4-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	3.3E-04	--	3.3E-04	**3.0E+03**
	1,2-Dibromo-3-chloropropane	1 µg/L	--	3.0E-08	--	3.0E-08	**3.3E+02**	--	5.3E-03	--	5.3E-03	**1.9E+02**
	1,2-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	8.7E-06	--	8.7E-06	**1.1E+05**
	1,2-Dichloroethane	1 µg/L	--	6.0E-10	--	6.0E-10	**1.7E+04**	--	4.2E-04	--	4.2E-04	**2.4E+03**
	1,3,5-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	3.3E-04	--	3.3E-04	**3.0E+03**
	1,3-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	1.7E-05	--	1.7E-05	**6.0E+04**
	1,4-Dichlorobenzene	1 µg/L	--	2.9E-10	--	2.9E-10	**3.5E+04**	--	2.2E-06	--	2.2E-06	**4.6E+05**

Table 5-6
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Trench Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Groundwater-to-Outdoor Air ($RBC_{gw\text{-}outdoor\ inh}$)	2-Butanone (MEK)	1 µg/L	--	--	--	--	**--**	--	1.6E-07	--	1.6E-07	**6.2E+06**
	2-Chlorotoluene	1 µg/L	--	--	--	--	**--**	--	2.7E-05	--	2.7E-05	**3.7E+04**
	Acenaphthene	1 µg/L	--	--	--	--	**--**	--	6.2E-06	--	6.2E-06	**1.6E+05**
	Acetone	1 µg/L	--	--	--	--	**--**	--	3.5E-07	--	3.5E-07	**2.9E+06**
	Benzene	1 µg/L	--	9.9E-10	--	9.9E-10	**1.0E+04**	--	4.0E-05	--	4.0E-05	**2.5E+04**
	Bromochloromethane	1 µg/L	--	--	--	--	**--**	--	2.6E-05	--	2.6E-05	**3.8E+04**
	Bromodichloromethane	1 µg/L	--	8.7E-10	--	8.7E-10	**1.1E+04**	--	2.3E-05	--	2.3E-05	**4.3E+04**
	Bromomethane	1 µg/L	--	--	--	--	**--**	--	4.4E-04	--	4.4E-04	**2.3E+03**
	Carbon Disulfide	1 µg/L	--	--	--	--	**--**	--	3.1E-06	--	3.1E-06	**3.2E+05**
	Carbon Tetrachloride	1 µg/L	--	1.1E-09	--	1.1E-09	**9.4E+03**	--	4.4E-05	--	4.4E-05	**2.3E+04**
	Chlorobenzene	1 µg/L	--	--	--	--	**--**	--	2.0E-06	--	2.0E-06	**5.0E+05**
	Chloroethane	1 µg/L	--	3.2E-11	--	3.2E-11	**3.2E+05**	--	8.9E-08	--	8.9E-08	**1.1E+07**
	Chloroform	1 µg/L	--	1.5E-10	--	1.5E-10	**6.6E+04**	--	6.5E-06	--	6.5E-06	**1.5E+05**
	Chloromethane	1 µg/L	--	--	--	--	**--**	--	3.4E-05	--	3.4E-05	**3.0E+04**
	cis-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	6.2E-05	--	6.2E-05	**1.6E+04**
	Dibromochloromethane	1 µg/L	--	5.4E-10	--	5.4E-10	**1.8E+04**	--	2.0E-05	--	2.0E-05	**5.0E+04**
	Dibromomethane	1 µg/L	--	--	--	--	**--**	--	4.4E-05	--	4.4E-05	**2.3E+04**
	Diisopropyl ether	1 µg/L	--	--	--	--	**--**	--	5.5E-06	--	5.5E-06	**1.8E+05**
	Ethylbenzene	1 µg/L	--	--	--	--	**--**	--	1.0E-06	--	1.0E-06	**9.6E+05**
	Ethyl-Tert-Butyl Ether	1 µg/L	--	--	--	--	**--**	--	7.0E-06	--	7.0E-06	**1.4E+05**
	Fluorene	1 µg/L	--	--	--	--	**--**	--	7.1E-06	--	7.1E-06	**1.4E+05**
	Freon-113	1 µg/L	--	--	--	--	**--**	--	5.3E-08	--	5.3E-08	**1.9E+07**
	Hexachlorobutadiene	1 µg/L	--	4.3E-10	--	4.3E-10	**2.3E+04**	--	1.3E-03	--	1.3E-03	**7.8E+02**
	Isopropylbenzene	1 µg/L	--	--	--	--	**--**	--	5.1E-06	--	5.1E-06	**2.0E+05**
	Methyl tertbutyl ether (MTBE)	1 µg/L	--	7.9E-12	--	7.9E-12	**1.3E+06**	--	2.7E-07	--	2.7E-07	**3.7E+06**
	Methylene Chloride	1 µg/L	--	3.3E-11	--	3.3E-11	**3.1E+05**	--	5.7E-06	--	5.7E-06	**1.7E+05**
	Naphthalene	1 µg/L	--	8.4E-10	--	8.4E-10	**1.2E+04**	--	1.9E-04	--	1.9E-04	**5.2E+03**
	n-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	1.3E-05	--	1.3E-05	**7.5E+04**
	n-Propylbenzene	1 µg/L	--	--	--	--	**--**	--	1.4E-05	--	1.4E-05	**7.1E+04**
	p-Isopropyltoluene	1 µg/L	--	--	--	--	**--**	--	4.8E-06	--	4.8E-06	**2.1E+05**
	Pyrene	1 µg/L	--	--	--	--	**--**	--	2.6E-06	--	2.6E-06	**3.9E+05**
	sec-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	1.3E-05	--	1.3E-05	**7.5E+04**
	Styrene	1 µg/L	--	--	--	--	**--**	--	2.3E-06	--	2.3E-06	**4.3E+05**
	tert-Butyl alcohol	1 µg/L	--	--	--	--	**--**	--	1.3E-06	--	1.3E-06	**7.6E+05**
	tert-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	1.3E-05	--	1.3E-05	**7.5E+04**
	Tetrachloroethene	1 µg/L	--	1.4E-10	--	1.4E-10	**6.9E+04**	--	4.8E-05	--	4.8E-05	**2.1E+04**
	Toluene	1 µg/L	--	--	--	--	**--**	--	7.5E-06	--	7.5E-06	**1.3E+05**
	trans-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	3.1E-05	--	3.1E-05	**3.2E+04**
	Trichloroethene	1 µg/L	--	5.4E-11	--	5.4E-11	**1.9E+05**	--	3.1E-06	--	3.1E-06	**3.2E+05**
	Vinyl Chloride	1 µg/L	--	3.0E-09	--	3.0E-09	**3.3E+03**	--	2.7E-05	--	2.7E-05	**3.7E+04**
	Xylenes	1 µg/L	--	--	--	--	**--**	--	3.0E-06	--	3.0E-06	**3.3E+05**

Notes and equations:

" -- " not applicable or not available; TR = target risk; THI = target noncancer hazard

RBC based on cancer effects:

$$RBC_{soil} = \frac{TR = 1 \times 10^{-5}}{(CR_{ingestion} + CR_{dermal} + CR_{inhalation})}$$

$$RBC_{gw\text{-}dermal} = \frac{TR = 1 \times 10^{-5}}{(CR_{dermal})}$$

$$RBC_{gw\text{-}outdoorinh} = \frac{TR = 1 \times 10^{-5}}{(CR_{inhalation})}$$

RBC based on noncancer effects:

$$RBC_{soil} = \frac{THI = 1}{(HQ_{ingestion} + HQ_{dermal} + HQ_{inhalation})}$$

$$RBC_{gw\text{-}dermal} = \frac{THI = 1}{(HQ_{dermal})}$$

$$RBC_{gw\text{-}outdoorinh} = \frac{THI = 1}{(HQ_{inhalation})}$$

Table 5-7
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Industrial/Commercial Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Soil:	**Inorganics**											
Incidental ingestion	Antimony	1 mg/kg	--	--	--	--	**--**	2.4E-03	--	5.7E-05	2.5E-03	**4.0E+02**
Dermal contact	Arsenic	1 mg/kg	3.3E-06	2.7E-10	2.3E-07	3.5E-06	**2.8E+00**	3.3E-03	7.3E-06	2.3E-04	3.5E-03	**2.9E+02**
Outdoor Inhalation	Barium	1 mg/kg	--	--	--	--	**--**	1.4E-05	4.4E-07	3.2E-07	1.5E-05	**6.8E+04**
(RBC_{soil})	Beryllium	1 mg/kg	--	1.9E-10	--	1.9E-10	**5.3E+04**	4.9E-04	3.1E-05	1.1E-05	5.3E-04	**1.9E+03**
	Cadmium	1 mg/kg	--	3.4E-10	--	3.4E-10	**3.0E+04**	9.8E-04	1.1E-05	2.3E-06	9.9E-04	**1.0E+03**
	Chromium	1 mg/kg	--	--	--	--	**--**	6.5E-07	--	1.5E-08	6.7E-07	**1.5E+06**
	Chromium, Hexavalent	1 mg/kg	--	1.1E-08	--	1.1E-08	**8.8E+02**	3.3E-04	1.1E-06	0.0E+00	3.3E-04	**3.1E+03**
	Cobalt	1 mg/kg	--	--	--	--	**--**	4.9E-05	1.1E-05	1.1E-06	6.1E-05	**1.6E+04**
	Copper	1 mg/kg	--	--	--	--	**--**	2.4E-05	--	5.7E-07	2.5E-05	**4.0E+04**
	Cyanide (Amenable)	1 mg/kg	--	--	--	--	**--**	4.9E-05	--	1.1E-05	6.0E-05	**1.7E+04**
	Cyanide (Total)	1 mg/kg	--	--	--	--	**--**	4.9E-05	--	1.1E-05	6.0E-05	**1.7E+04**
	Mercury	1 mg/kg	--	--	--	--	**--**	3.3E-03	2.4E-06	7.5E-05	3.3E-03	**3.0E+02**
	Molybdenum	1 mg/kg	--	--	--	--	**--**	2.0E-04	--	4.5E-06	2.0E-04	**5.0E+03**
	Nickel	1 mg/kg	--	2.0E-11	--	2.0E-11	**4.9E+05**	4.9E-05	4.4E-06	1.1E-06	5.4E-05	**1.8E+04**
	Selenium	1 mg/kg	--	--	--	--	**--**	2.0E-04	1.1E-08	4.5E-06	2.0E-04	**5.0E+03**
	Silver	1 mg/kg	--	--	--	--	**--**	2.0E-04	--	4.5E-06	2.0E-04	**5.0E+03**
	Thallium	1 mg/kg	--	--	--	--	**--**	1.5E-02	--	3.4E-04	1.5E-02	**6.6E+01**
	Vanadium	1 mg/kg	--	--	--	--	**--**	9.8E-04	--	2.3E-05	1.0E-03	**1.0E+03**
	Zinc	1 mg/kg	--	--	--	--	**--**	3.3E-06	--	7.5E-08	3.3E-06	**3.0E+05**
	PAHs											
	2-Methylnaphthalene	1 mg/kg	--	--	--	--	**--**	3.3E-05	2.1E-09	1.1E-05	4.4E-05	**2.3E+04**
	Anthracene	1 mg/kg	--	--	--	--	**--**	3.3E-06	2.1E-10	1.1E-06	4.4E-06	**2.3E+05**
	Benzo(a)anthracene	1 mg/kg	4.2E-07	8.7E-12	1.5E-07	5.6E-07	**1.8E+01**	--	--	--	--	**--**
	Benzo(a)Pyrene	1 mg/kg	4.2E-06	8.7E-11	1.5E-06	5.6E-06	**1.8E+00**	--	--	--	--	**--**
	Benzo(b)Fluoranthene	1 mg/kg	4.2E-07	8.7E-12	1.5E-07	5.6E-07	**1.8E+01**	--	--	--	--	**--**
	Benzo(k)Fluoranthene	1 mg/kg	4.2E-07	8.7E-12	1.5E-07	5.6E-07	**1.8E+01**	--	--	--	--	**--**
	Benzo(g,h,i)Perylene	1 mg/kg	--	--	--	--	**--**	3.3E-05	2.1E-09	1.1E-05	4.4E-05	**2.3E+04**
	Chrysene	1 mg/kg	4.2E-08	8.7E-13	1.5E-08	5.6E-08	**1.8E+02**	--	--	--	--	**--**
	Dibenz(a,h)anthracene	1 mg/kg	4.2E-06	8.7E-11	1.5E-06	5.6E-06	**1.8E+00**	--	--	--	--	**--**
	Fluoranthene	1 mg/kg	--	--	--	--	**--**	2.4E-05	1.6E-09	8.5E-06	3.3E-05	**3.0E+04**
	Indeno(1,2,3-cd)pyrene	1 mg/kg	4.2E-07	8.7E-12	1.5E-07	5.6E-07	**1.8E+01**	--	--	--	--	**--**
	Phenanthrene	1 mg/kg	--	--	--	--	**--**	3.3E-06	2.1E-10	1.1E-06	4.4E-06	**2.3E+05**
	PCBs											
	Aroclor 1016	1 mg/kg	2.4E-08	1.6E-12	8.5E-09	3.3E-08	**3.0E+02**	1.4E-02	9.0E-07	4.8E-03	1.9E-02	**5.3E+01**
	Aroclor 1242	1 mg/kg	1.7E-06	4.5E-11	6.1E-07	2.4E-06	**4.3E+00**	4.9E-02	3.1E-06	1.7E-02	6.6E-02	**1.5E+01**
	Aroclor 1248	1 mg/kg	1.7E-06	4.5E-11	6.1E-07	2.4E-06	**4.3E+00**	4.9E-02	3.1E-06	1.7E-02	6.6E-02	**1.5E+01**
	Aroclor 1254	1 mg/kg	1.7E-06	4.5E-11	6.1E-07	2.4E-06	**4.3E+00**	4.9E-02	3.1E-06	1.7E-02	6.6E-02	**1.5E+01**
	Aroclor 1260	1 mg/kg	1.7E-06	4.5E-11	6.1E-07	2.4E-06	**4.3E+00**	4.9E-02	3.1E-06	1.7E-02	6.6E-02	**1.5E+01**
	Aroclor 1262	1 mg/kg	1.7E-06	4.5E-11	6.1E-07	2.4E-06	**4.3E+00**	4.9E-02	3.1E-06	1.7E-02	6.6E-02	**1.5E+01**
	Perchlorate											
	Perchlorate	1 mg/kg	--	--	--	--	**--**	1.4E-03	--	0.0E+00	1.4E-03	**7.2E+02**
	SVOCs											
	1,4-Dioxane	1 mg/kg	9.4E-09	6.0E-13	2.2E-09	1.2E-08	**8.6E+02**	--	7.3E-11	--	7.3E-11	**1.4E+10**
	4-Chloro-3-methylphenol	1 mg/kg	--	--	--	--	**--**	9.8E-06	--	2.3E-06	1.2E-05	**8.3E+04**
	Aniline	1 mg/kg	2.0E-09	1.3E-13	4.6E-10	2.5E-09	**4.1E+03**	1.4E-04	2.2E-07	3.2E-05	1.7E-04	**5.8E+03**
	Benzoic Acid	1 mg/kg	--	--	--	--	**--**	2.4E-07	1.6E-11	5.7E-08	3.0E-07	**3.3E+06**
	Bis(2-ethylhexyl)Phthalate	1 mg/kg	1.0E-09	1.9E-13	2.4E-10	1.3E-09	**7.7E+03**	4.9E-05	3.1E-09	1.1E-05	6.0E-05	**1.7E+04**
	Diethylphthalate	1 mg/kg	--	--	--	--	**--**	1.2E-06	7.8E-11	2.8E-07	1.5E-06	**6.6E+05**

Table 5-7
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Industrial/Commercial Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Soil:	Diisopropyl Ether	1 mg/kg	--	--	--	--	**--**	--	1.2E-03	--	1.2E-03	**8.2E+02**
Incidental ingestion	Dimethyl Phthalate	1 mg/kg	--	--	--	--	**--**	9.8E-08	6.3E-12	2.3E-08	1.2E-07	**8.3E+06**
Dermal contact	Di-n-butylphthalate	1 mg/kg	--	--	--	--	**--**	9.8E-06	6.3E-10	2.3E-06	1.2E-05	**8.3E+04**
Outdoor Inhalation	Phenol	1 mg/kg	--	--	--	--	**--**	3.3E-06	1.1E-09	7.5E-07	4.0E-06	**2.5E+05**
(RBC_{soil})	**TPH**											
	TPH - aliphatic; C5-C8	1 mg/kg	--	--	--	--	**--**	2.4E-05	1.0E-09	8.5E-06	3.3E-05	**3.0E+04**
	TPH - aliphatic; C9-C18	1 mg/kg	--	--	--	--	**--**	9.8E-06	2.1E-10	3.4E-06	1.3E-05	**7.6E+04**
	TPH - aliphatic; C≥19	1 mg/kg	--	--	--	--	**--**	4.9E-07	2.1E-10	1.7E-07	6.6E-07	**1.5E+06**
	TPH - aromatic; C5-C8	1 mg/kg	--	--	--	--	**--**	--	--	--	--	**--**
	TPH - aromatic; C9-C18	1 mg/kg	--	--	--	--	**--**	3.3E-05	1.0E-08	1.1E-05	4.4E-05	**2.3E+04**
	TPH - aromatic; C≥19	1 mg/kg	--	--	--	--	**--**	3.3E-05	--	1.1E-05	4.4E-05	**2.3E+04**
	VOCs											
	1,1,1,2-Tetrachloroethane	1 mg/kg	9.1E-09	3.5E-07	2.1E-09	3.6E-07	**2.8E+01**	3.3E-05	1.3E-03	7.5E-06	1.3E-03	**7.7E+02**
	1,1,1-Trichloroethane	1 mg/kg	--	--	--	--	**--**	3.5E-06	7.5E-04	8.1E-07	7.6E-04	**1.3E+03**
	1,1,2-Trichloroethane	1 mg/kg	2.5E-08	1.6E-06	5.8E-09	1.7E-06	**6.0E+00**	2.4E-04	2.0E-02	5.7E-05	2.0E-02	**4.9E+01**
	1,1-Dichloroethane	1 mg/kg	2.0E-09	3.9E-07	4.6E-10	4.0E-07	**2.5E+01**	9.8E-06	1.4E-03	2.3E-06	1.4E-03	**7.3E+02**
	1,1-Dichloroethene	1 mg/kg	--	--	--	--	**--**	2.0E-05	1.5E-02	4.5E-06	1.5E-02	**6.7E+01**
	1,1-Dichloropropene	1 mg/kg	3.2E-08	1.2E-12	7.3E-09	3.9E-08	**2.6E+02**	3.3E-05	1.1E-08	7.5E-06	4.0E-05	**2.5E+04**
	1,2,4-Trichlorobenzene	1 mg/kg	--	--	--	--	**--**	9.8E-05	2.0E-03	2.3E-05	2.1E-03	**4.7E+02**
	1,2,4-Trimethylbenzene	1 mg/kg	--	--	--	--	**--**	2.0E-05	1.7E-02	4.5E-06	1.7E-02	**6.0E+01**
	1,2-Dibromo-3-chloropropane	1 mg/kg	2.4E-06	3.0E-05	5.7E-07	3.3E-05	**3.1E-01**	1.7E-02	2.1E-01	4.0E-03	2.3E-01	**4.4E+00**
	1,2-Dichlorobenzene	1 mg/kg	--	--	--	--	**--**	1.1E-05	6.6E-04	2.5E-06	6.7E-04	**1.5E+03**
	1,2-Dichloroethane	1 mg/kg	1.6E-08	3.2E-06	3.8E-09	3.3E-06	**3.1E+00**	4.9E-05	9.0E-02	1.1E-05	9.0E-02	**1.1E+01**
	1,3,5-Trimethylbenzene	1 mg/kg	--	--	--	--	**--**	2.0E-05	4.0E-02	4.5E-06	4.0E-02	**2.5E+01**
	1,3-Dichlorobenzene	1 mg/kg	--	--	--	--	**--**	3.3E-05	1.2E-03	7.5E-06	1.3E-03	**7.8E+02**
	1,4-Dichlorobenzene	1 mg/kg	1.9E-09	6.0E-07	4.4E-10	6.1E-07	**1.6E+01**	3.3E-05	1.9E-04	7.5E-06	2.3E-04	**4.4E+03**
	2-Butanone (MEK)	1 mg/kg	--	--	--	--	**--**	1.6E-06	1.8E-05	3.8E-07	2.0E-05	**5.1E+04**
	2-Chlorotoluene	1 mg/kg	--	--	--	--	**--**	4.9E-05	4.7E-03	1.1E-05	4.8E-03	**2.1E+02**
	Acenaphthene	1 mg/kg	--	--	--	--	**--**	1.6E-05	5.1E-05	5.7E-06	7.3E-05	**1.4E+04**
	Acetone	1 mg/kg	--	--	--	--	**--**	1.1E-06	4.1E-05	2.5E-07	4.3E-05	**2.3E+04**
	Benzene	1 mg/kg	3.5E-08	6.4E-06	8.1E-09	6.5E-06	**1.5E+00**	2.4E-04	1.1E-02	5.7E-05	1.1E-02	**9.3E+01**
	Bromochloromethane	1 mg/kg	--	--	--	--	**--**	4.9E-05	4.8E-03	1.1E-05	4.8E-03	**2.1E+02**
	Bromodichloromethane	1 mg/kg	4.5E-08	2.9E-06	1.0E-08	3.0E-06	**3.4E+00**	4.9E-05	3.1E-03	1.1E-05	3.2E-03	**3.1E+02**
	Bromomethane	1 mg/kg	--	--	--	--	**--**	7.0E-04	1.6E-01	1.6E-04	1.7E-01	**6.1E+00**
	Carbon Disulfide	1 mg/kg	--	--	--	--	**--**	9.8E-06	1.5E-03	2.3E-06	1.5E-03	**6.7E+02**
	Carbon Tetrachloride	1 mg/kg	5.2E-08	1.2E-05	1.2E-08	1.2E-05	**8.2E-01**	1.4E-03	2.0E-02	3.2E-04	2.2E-02	**4.6E+01**
	Chlorobenzene	1 mg/kg	--	--	--	--	**--**	4.9E-05	3.0E-04	1.1E-05	3.6E-04	**2.8E+03**
	Chloroethane	1 mg/kg	1.0E-09	3.2E-07	2.3E-10	3.2E-07	**3.1E+01**	2.4E-06	3.6E-05	5.7E-07	3.9E-05	**2.5E+04**
	Chloroform	1 mg/kg	1.1E-08	1.3E-06	2.5E-09	1.3E-06	**7.9E+00**	9.8E-05	2.2E-03	2.3E-05	2.3E-03	**4.4E+02**
	Chloromethane	1 mg/kg	--	--	--	--	**--**	3.8E-05	1.3E-02	8.8E-06	1.3E-02	**7.9E+01**
	cis-1,2-Dichloroethene	1 mg/kg	--	--	--	--	**--**	9.8E-05	1.7E-02	2.3E-05	1.7E-02	**6.0E+01**
	Dibromochloromethane	1 mg/kg	3.3E-08	1.4E-06	7.6E-09	1.4E-06	**7.0E+00**	4.9E-05	2.1E-03	1.1E-05	2.1E-03	**4.7E+02**
	Dibromomethane	1 mg/kg	--	--	--	--	**--**	9.8E-05	6.0E-03	2.3E-05	6.1E-03	**1.6E+02**
	Diisopropyl ether	1 mg/kg	--	--	--	--	**--**	--	1.2E-03	--	1.2E-03	**8.2E+02**
	Ethylbenzene	1 mg/kg	--	--	--	--	**--**	9.8E-06	1.7E-04	2.3E-06	1.9E-04	**5.4E+03**
	Ethyl-Tert-Butyl Ether	1 mg/kg	--	--	--	--	**--**	9.8E-04	1.5E-03	2.3E-04	2.7E-03	**3.7E+02**
	Fluorene	1 mg/kg	--	--	--	--	**--**	2.4E-05	3.8E-05	8.5E-06	7.1E-05	**1.4E+04**
	Freon-113	1 mg/kg	--	--	--	--	**--**	3.3E-08	2.5E-05	7.5E-09	2.5E-05	**4.0E+04**
	Hexachlorobutadiene	1 mg/kg	2.7E-08	1.7E-06	6.3E-09	1.7E-06	**5.7E+00**	3.3E-03	2.0E-01	7.5E-04	2.1E-01	**4.8E+00**

Table 5-7
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Industrial/Commercial Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Soil:	Isopropylbenzene	1 mg/kg	--	--	--	--	**--**	9.8E-06	1.3E-03	2.3E-06	1.3E-03	**7.6E+02**
Incidental ingestion	Methyl tertbutyl ether (MTBE)	1 mg/kg	6.3E-10	3.3E-08	1.5E-10	3.4E-08	**3.0E+02**	1.1E-06	4.4E-05	2.6E-07	4.6E-05	**2.2E+04**
Dermal contact	Methylene Chloride	1 mg/kg	4.9E-09	2.3E-07	1.1E-09	2.4E-07	**4.2E+01**	1.6E-05	1.6E-03	3.8E-06	1.7E-03	**6.0E+02**
Outdoor Inhalation	Naphthalene	1 mg/kg	4.2E-08	5.5E-07	1.5E-08	6.0E-07	**1.7E+01**	4.9E-05	5.0E-03	1.7E-05	5.0E-03	**2.0E+02**
(RBC_{soil})	n-Butylbenzene	1 mg/kg	--	--	--	--	**--**	2.4E-05	1.2E-03	5.7E-06	1.2E-03	**8.1E+02**
	n-Propylbenzene	1 mg/kg	--	--	--	--	**--**	2.4E-05	1.2E-03	5.7E-06	1.2E-03	**8.1E+02**
	p-Isopropyltoluene	1 mg/kg	--	--	--	--	**--**	9.8E-06	4.0E-04	2.3E-06	4.1E-04	**2.4E+03**
	Pyrene	1 mg/kg	--	--	--	--	**--**	3.3E-05	4.7E-06	7.5E-06	4.5E-05	**2.2E+04**
	sec-Butylbenzene	1 mg/kg	--	--	--	--	**--**	2.4E-05	1.6E-03	5.7E-06	1.7E-03	**6.0E+02**
	Styrene	1 mg/kg	--	--	--	--	**--**	4.9E-06	1.6E-04	1.1E-06	1.7E-04	**6.1E+03**
	tert-Butyl alcohol	1 mg/kg	--	--	--	--	**--**	3.3E-06	1.3E-04	7.5E-07	1.4E-04	**7.4E+03**
	tert-Butylbenzene	1 mg/kg	--	--	--	--	**--**	2.4E-05	1.4E-03	5.7E-06	1.4E-03	**7.2E+02**
	Tetrachloroethene	1 mg/kg	1.9E-07	1.4E-06	4.4E-08	1.7E-06	**6.0E+00**	9.8E-05	1.9E-02	2.3E-05	1.9E-02	**5.2E+01**
	Toluene	1 mg/kg	--	--	--	--	**--**	4.9E-06	1.5E-03	1.1E-06	1.5E-03	**6.5E+02**
	trans-1,2-Dichloroethene	1 mg/kg	--	--	--	--	**--**	4.9E-05	1.0E-02	1.1E-05	1.0E-02	**9.9E+01**
	Trichloroethene	1 mg/kg	4.5E-09	3.9E-07	1.0E-09	4.0E-07	**2.5E+01**	3.3E-03	9.1E-04	7.5E-04	4.9E-03	**2.0E+02**
	Vinyl Chloride	1 mg/kg	9.4E-08	3.5E-05	2.2E-08	3.5E-05	**2.8E-01**	3.3E-04	1.3E-02	7.5E-05	1.3E-02	**7.6E+01**
	Xylenes	1 mg/kg	--	--	--	--	**--**	4.9E-06	4.4E-04	1.1E-06	4.5E-04	**2.2E+03**
Soil Gas-to-	**VOCs**						**µg/L**					**µg/L**
Indoor Air	1,1,1,2-Tetrachloroethane	1 µg/L	--	6.0E-10	--	6.0E-10	**1.7E+01**	--	2.2E-06	--	2.2E-06	**4.6E+02**
($RBC_{sg\text{-}indoor\ inh}$)	1,1,1-Trichloroethane	1 µg/L	--	--	--	--	**--**	--	2.3E-07	--	2.3E-07	**4.3E+03**
	1,1,2-Trichloroethane	1 µg/L	--	1.4E-09	--	1.4E-09	**7.3E+00**	--	1.7E-05	--	1.7E-05	**6.0E+01**
	1,1-Dichloroethane	1 µg/L	--	1.3E-10	--	1.3E-10	**7.5E+01**	--	4.6E-07	--	4.6E-07	**2.2E+03**
	1,1-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	3.5E-06	--	3.5E-06	**2.8E+02**
	1,1-Dichloropropene	1 µg/L	--	1.2E-09	--	1.2E-09	**8.3E+00**	--	1.1E-05	--	1.1E-05	**9.3E+01**
	1,2,4-Trichlorobenzene	1 µg/L	--	--	--	--	**--**	--	4.2E-06	--	4.2E-06	**2.4E+02**
	1,2,4-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	3.6E-05	--	3.6E-05	**2.8E+01**
	1,2-Dibromo-3-chloropropane	1 µg/L	--	8.4E-08	--	8.4E-08	**1.2E-01**	--	5.9E-04	--	5.9E-04	**1.7E+00**
	1,2-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	1.1E-06	--	1.1E-06	**8.9E+02**
	1,2-Dichloroethane	1 µg/L	--	1.9E-09	--	1.9E-09	**5.3E+00**	--	5.3E-05	--	5.3E-05	**1.9E+01**
	1,3,5-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	3.6E-05	--	3.6E-05	**2.8E+01**
	1,3-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	2.1E-06	--	2.1E-06	**4.7E+02**
	1,4-Dichlorobenzene	1 µg/L	--	9.1E-10	--	9.1E-10	**1.1E+01**	--	2.8E-07	--	2.8E-07	**3.6E+03**
	2-Butanone (MEK)	1 µg/L	--	--	--	--	**--**	--	4.8E-08	--	4.8E-08	**2.1E+04**
	2-Chlorotoluene	1 µg/L	--	--	--	--	**--**	--	3.2E-06	--	3.2E-06	**3.1E+02**
	Acenaphthene	1 µg/L	--	--	--	--	**--**	--	8.5E-07	--	8.5E-07	**1.2E+03**
	Acetone	1 µg/L	--	--	--	--	**--**	--	8.6E-08	--	8.6E-08	**1.2E+04**
	Benzene	1 µg/L	--	2.5E-09	--	2.5E-09	**4.0E+00**	--	4.1E-06	--	4.1E-06	**2.5E+02**
	Bromochloromethane	1 µg/L	--	--	--	--	**--**	--	2.7E-06	--	2.7E-06	**3.7E+02**
	Bromodichloromethane	1 µg/L	--	1.9E-09	--	1.9E-09	**5.1E+00**	--	2.1E-06	--	2.1E-06	**4.8E+02**
	Bromomethane	1 µg/L	--	--	--	--	**--**	--	4.6E-05	--	4.6E-05	**2.2E+01**
	Carbon Disulfide	1 µg/L	--	--	--	--	**--**	--	3.2E-07	--	3.2E-07	**3.1E+03**
	Carbon Tetrachloride	1 µg/L	--	3.6E-09	--	3.6E-09	**2.8E+00**	--	5.9E-06	--	5.9E-06	**1.7E+02**
	Chlorobenzene	1 µg/L	--	--	--	--	**--**	--	2.3E-07	--	2.3E-07	**4.4E+03**
	Chloroethane	1 µg/L	--	9.5E-11	--	9.5E-11	**1.1E+02**	--	1.1E-08	--	1.1E-08	**9.3E+04**
	Chloroform	1 µg/L	--	5.0E-10	--	5.0E-10	**2.0E+01**	--	8.6E-07	--	8.6E-07	**1.2E+03**
	Chloromethane	1 µg/L	--	--	--	--	**--**	--	3.0E-06	--	3.0E-06	**3.3E+02**
	cis-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	6.6E-06	--	6.6E-06	**1.5E+02**

Table 5-7
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Industrial/Commercial Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**RBC_{cancer}**	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**$RBC_{noncancer}$**
Soil Gas-to-Indoor Air ($RBC_{sg\text{-}indoor\ inh}$)	Dibromochloromethane	1 µg/L	--	1.1E-09	--	1.1E-09	**9.3E+00**	--	1.6E-06	--	1.6E-06	**6.3E+02**
	Dibromomethane	1 µg/L	--	--	--	--	**--**	--	5.2E-06	--	5.2E-06	**1.9E+02**
	Diisopropyl ether	1 µg/L	--	--	--	--	**--**	--	5.8E-07	--	5.8E-07	**1.7E+03**
	Ethylbenzene	1 µg/L	--	--	--	--	**--**	--	1.2E-07	--	1.2E-07	**8.7E+03**
	Ethyl-Tert-Butyl Ether	1 µg/L	--	--	--	--	**--**	--	7.5E-07	--	7.5E-07	**1.3E+03**
	Fluorene	1 µg/L	--	--	--	--	**--**	--	1.2E-06	--	1.2E-06	**8.5E+02**
	Freon-113	1 µg/L	--	--	--	--	**--**	--	7.8E-09	--	7.8E-09	**1.3E+05**
	Hexachlorobutadiene	1 µg/L	--	1.6E-09	--	1.6E-09	**6.1E+00**	--	2.0E-04	--	2.0E-04	**5.1E+00**
	Isopropylbenzene	1 µg/L	--	--	--	--	**--**	--	5.7E-07	--	5.7E-07	**1.8E+03**
	Methyl tertbutyl ether (MTBE)	1 µg/L	--	2.4E-11	--	2.4E-11	**4.2E+02**	--	3.2E-08	--	3.2E-08	**3.1E+04**
	Methylene Chloride	1 µg/L	--	9.1E-11	--	9.1E-11	**1.1E+02**	--	6.4E-07	--	6.4E-07	**1.6E+03**
	Naphthalene	1 µg/L	--	2.6E-09	--	2.6E-09	**3.9E+00**	--	2.3E-05	--	2.3E-05	**4.3E+01**
	n-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	1.5E-06	--	1.5E-06	**6.8E+02**
	n-Propylbenzene	1 µg/L	--	--	--	--	**--**	--	1.5E-06	--	1.5E-06	**6.6E+02**
	p-Isopropyltoluene	1 µg/L	--	--	--	--	**--**	--	5.4E-07	--	5.4E-07	**1.9E+03**
	Pyrene	1 µg/L	--	--	--	--	**--**	--	1.3E-06	--	1.3E-06	**7.5E+02**
	sec-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	1.5E-06	--	1.5E-06	**6.8E+02**
	Styrene	1 µg/L	--	--	--	--	**--**	--	2.5E-07	--	2.5E-07	**4.0E+03**
	tert-Butyl alcohol	1 µg/L	--	--	--	--	**--**	--	2.3E-07	--	2.3E-07	**4.3E+03**
	tert-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	1.5E-06	--	1.5E-06	**6.8E+02**
	Tetrachloroethene	1 µg/L	--	4.9E-10	--	4.9E-10	**2.1E+01**	--	6.5E-06	--	6.5E-06	**1.5E+02**
	Toluene	1 µg/L	--	--	--	--	**--**	--	8.1E-07	--	8.1E-07	**1.2E+03**
	trans-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	3.2E-06	--	3.2E-06	**3.1E+02**
	Trichloroethene	1 µg/L	--	1.7E-10	--	1.7E-10	**5.9E+01**	--	3.9E-07	--	3.9E-07	**2.5E+03**
	Vinyl Chloride	1 µg/L	--	7.2E-09	--	7.2E-09	**1.4E+00**	--	2.6E-06	--	2.6E-06	**3.9E+02**
	Xylenes	1 µg/L	--	--	--	--	**--**	--	3.3E-07	--	3.3E-07	**3.0E+03**
Groundwater-to-Indoor Air ($RBC_{gw\text{-}indoor\ inh}$)	**VOCs**						**µg/L**					**µg/L**
	1,1,1,2-Tetrachloroethane	1 µg/L	--	5.0E-09	--	5.0E-09	**2.0E+03**	--	1.8E-05	--	1.8E-05	**5.5E+04**
	1,1,1-Trichloroethane	1 µg/L	--	--	--	--	**--**	--	1.6E-05	--	1.6E-05	**6.3E+04**
	1,1,2-Trichloroethane	1 µg/L	--	5.4E-09	--	5.4E-09	**1.8E+03**	--	6.7E-05	--	6.7E-05	**1.5E+04**
	1,1-Dichloroethane	1 µg/L	--	3.0E-09	--	3.0E-09	**3.3E+03**	--	1.0E-05	--	1.0E-05	**9.7E+04**
	1,1-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	4.1E-04	--	4.1E-04	**2.4E+03**
	1,1-Dichloropropene	1 µg/L	--	7.1E-08	--	7.1E-08	**1.4E+02**	--	6.3E-04	--	6.3E-04	**1.6E+03**
	1,2,4-Trichlorobenzene	1 µg/L	--	--	--	--	**--**	--	1.7E-05	--	1.7E-05	**6.0E+04**
	1,2,4-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	6.6E-04	--	6.6E-04	**1.5E+03**
	1,2-Dibromo-3-chloropropane	1 µg/L	--	8.5E-08	--	8.5E-08	**1.2E+02**	--	5.9E-04	--	5.9E-04	**1.7E+03**
	1,2-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	7.3E-06	--	7.3E-06	**1.4E+05**
	1,2-Dichloroethane	1 µg/L	--	9.5E-09	--	9.5E-09	**1.0E+03**	--	2.6E-04	--	2.6E-04	**3.8E+03**
	1,3,5-Trimethylbenzene	1 µg/L	--	--	--	--	**--**	--	6.3E-04	--	6.3E-04	**1.6E+03**
	1,3-Dichlorobenzene	1 µg/L	--	--	--	--	**--**	--	2.2E-05	--	2.2E-05	**4.5E+04**
	1,4-Dichlorobenzene	1 µg/L	--	7.5E-09	--	7.5E-09	**1.3E+03**	--	2.3E-06	--	2.3E-06	**4.3E+05**
	2-Butanone (MEK)	1 µg/L	--	--	--	--	**--**	--	3.1E-08	--	3.1E-08	**3.2E+07**
	2-Chlorotoluene	1 µg/L	--	--	--	--	**--**	--	3.7E-05	--	3.7E-05	**2.7E+04**
	Acenaphthene	1 µg/L	--	--	--	--	**--**	--	7.7E-07	--	7.7E-07	**1.3E+06**
	Acetone	1 µg/L	--	--	--	--	**--**	--	4.8E-08	--	4.8E-08	**2.1E+07**
	Benzene	1 µg/L	--	5.9E-08	--	5.9E-08	**1.7E+02**	--	9.6E-05	--	9.6E-05	**1.0E+04**
	Bromochloromethane	1 µg/L	--	--	--	--	**--**	--	1.9E-05	--	1.9E-05	**5.2E+04**
	Bromodichloromethane	1 µg/L	--	1.0E-08	--	1.0E-08	**9.7E+02**	--	1.1E-05	--	1.1E-05	**9.0E+04**
	Bromomethane	1 µg/L	--	--	--	--	**--**	--	1.2E-03	--	1.2E-03	**8.3E+02**

Table 5-7
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Industrial/Commercial Worker Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Groundwater-to-Indoor Air ($RBC_{gw\text{-}indoor\ inh}$)	Carbon Disulfide	1 µg/L	--	--	--	--	**--**	--	4.7E-05	--	4.7E-05	**2.1E+04**
	Carbon Tetrachloride	1 µg/L	--	4.2E-07	--	4.2E-07	**2.4E+01**	--	6.9E-04	--	6.9E-04	**1.4E+03**
	Chlorobenzene	1 µg/L	--	--	--	--	**--**	--	3.1E-06	--	3.1E-06	**3.2E+05**
	Chloroethane	1 µg/L	--	7.5E-09	--	7.5E-09	**1.3E+03**	--	8.4E-07	--	8.4E-07	**1.2E+06**
	Chloroform	1 µg/L	--	8.8E-09	--	8.8E-09	**1.1E+03**	--	1.5E-05	--	1.5E-05	**6.6E+04**
	Chloromethane	1 µg/L	--	--	--	--	**--**	--	1.6E-04	--	1.6E-04	**6.4E+03**
	cis-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	1.1E-04	--	1.1E-04	**9.3E+03**
	Dibromochloromethane	1 µg/L	--	3.8E-09	--	3.8E-09	**2.7E+03**	--	5.6E-06	--	5.6E-06	**1.8E+05**
	Dibromomethane	1 µg/L	--	--	--	--	**--**	--	1.7E-05	--	1.7E-05	**5.9E+04**
	Diisopropyl ether	1 µg/L	--	--	--	--	**--**	--	8.8E-06	--	8.8E-06	**1.1E+05**
	Ethylbenzene	1 µg/L	--	--	--	--	**--**	--	3.2E-06	--	3.2E-06	**3.1E+05**
	Ethyl-Tert-Butyl Ether	1 µg/L	--	--	--	--	**--**	--	7.3E-06	--	7.3E-06	**1.4E+05**
	Fluorene	1 µg/L	--	--	--	--	**--**	--	6.2E-07	--	6.2E-07	**1.6E+06**
	Freon-113	1 µg/L	--	--	--	--	**--**	--	1.5E-05	--	1.5E-05	**6.6E+04**
	Hexachlorobutadiene	1 µg/L	--	3.7E-08	--	3.7E-08	**2.7E+02**	--	4.4E-03	--	4.4E-03	**2.3E+02**
	Isopropylbenzene	1 µg/L	--	--	--	--	**--**	--	1.9E-03	--	1.9E-03	**5.3E+02**
	Methyl tertbutyl ether (MTBE)	1 µg/L	--	8.6E-11	--	8.6E-11	**1.2E+05**	--	1.2E-07	--	1.2E-07	**8.7E+06**
	Methylene Chloride	1 µg/L	--	1.0E-09	--	1.0E-09	**1.0E+04**	--	7.0E-06	--	7.0E-06	**1.4E+05**
	Naphthalene	1 µg/L	--	5.0E-09	--	5.0E-09	**2.0E+03**	--	4.6E-05	--	4.6E-05	**2.2E+04**
	n-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	5.5E-05	--	5.5E-05	**1.8E+04**
	n-Propylbenzene	1 µg/L	--	--	--	--	**--**	--	4.8E-05	--	4.8E-05	**2.1E+04**
	p-Isopropyltoluene	1 µg/L	--	--	--	--	**--**	--	1.8E-03	--	1.8E-03	**5.4E+02**
	Pyrene	1 µg/L	--	--	--	--	**--**	--	1.3E-07	--	1.3E-07	**7.4E+06**
	sec-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	2.2E-06	--	2.2E-06	**4.6E+05**
	Styrene	1 µg/L	--	--	--	--	**--**	--	2.5E-06	--	2.5E-06	**4.1E+05**
	tert-Butyl alcohol	1 µg/L	--	--	--	--	**--**	--	2.0E-07	--	2.0E-07	**5.0E+06**
	tert-Butylbenzene	1 µg/L	--	--	--	--	**--**	--	5.5E-05	--	5.5E-05	**1.8E+04**
	Tetrachloroethene	1 µg/L	--	3.1E-08	--	3.1E-08	**3.2E+02**	--	4.2E-04	--	4.2E-04	**2.4E+03**
	Toluene	1 µg/L	--	--	--	--	**--**	--	2.2E-05	--	2.2E-05	**4.6E+04**
	trans-1,2-Dichloroethene	1 µg/L	--	--	--	--	**--**	--	1.2E-04	--	1.2E-04	**8.5E+03**
	Trichloroethene	1 µg/L	--	6.7E-09	--	6.7E-09	**1.5E+03**	--	1.6E-05	--	1.6E-05	**6.4E+04**
	Vinyl Chloride	1 µg/L	--	1.0E-06	--	1.0E-06	**9.9E+00**	--	3.7E-04	--	3.7E-04	**2.7E+03**
	Xylenes	1 µg/L	--	--	--	--	**--**	--	9.1E-06	--	9.1E-06	**1.1E+05**

Notes and equations:
" -- " not applicable or not available; TR = target risk; THI = target noncancer hazard

RBC based on cancer effects:

$$RBC_{soil} = \frac{TR = 1\times10^{-5}}{(CR_{ingestion} + CR_{dermal} + CR_{inhalation})}$$

$$RBC_{sg\text{-}indoor\ inh} = \frac{TR = 1\times10^{-5}}{(CR_{inhalation})}$$

$$RBC_{gw\text{-}indoor\ inh} = \frac{TR = 1\times10^{-5}}{(CR_{inhalation})}$$

RBC based on noncancer effects:

$$RBC_{soil} = \frac{THI = 1}{(HQ_{ingestion} + HQ_{dermal} + HQ_{inhalation})}$$

$$RBC_{sg\text{-}indoor\ inh} = \frac{THI = 1}{(HQ_{inhalation})}$$

$$RBC_{gw\text{-}indoor\ inh} = \frac{THI = 1}{(HQ_{inhalation})}$$

Table 5-8
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Landscaper Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**RBC_{cancer}**	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**$RBC_{noncancer}$**
Soil:	**Inorganics**											
Incidental ingestion	Antimony	1 mg/kg	--	--	--	--	**--**	4.9E-04	--	1.4E-04	6.3E-04	**1.6E+03**
Dermal contact	Arsenic	1 mg/kg	6.6E-07	6.5E-11	5.6E-07	1.2E-06	**8.2E+00**	6.5E-04	1.8E-06	5.6E-04	1.2E-03	**8.3E+02**
Outdoor Inhalation	Barium	1 mg/kg	--	--	--	--	**--**	2.8E-06	1.1E-07	8.0E-07	3.7E-06	**2.7E+05**
(RBC_{soil})	Beryllium	1 mg/kg	--	4.6E-11	--	4.6E-11	**2.2E+05**	9.8E-05	7.6E-06	2.8E-05	1.3E-04	**7.5E+03**
	Cadmium	1 mg/kg	--	8.1E-11	--	8.1E-11	**1.2E+05**	2.0E-04	2.7E-06	5.6E-06	2.0E-04	**4.9E+03**
	Chromium	1 mg/kg	--	--	--	--	**--**	1.3E-07	--	3.7E-08	1.7E-07	**6.0E+06**
	Chromium, Hexavalent	1 mg/kg	--	2.8E-09	--	2.8E-09	**3.6E+03**	6.5E-05	2.7E-07	0.0E+00	6.5E-05	**1.5E+04**
	Cobalt	1 mg/kg	--	--	--	--	**--**	9.8E-06	2.7E-06	2.8E-06	1.5E-05	**6.6E+04**
	Copper	1 mg/kg	--	--	--	--	**--**	4.9E-06	--	1.4E-06	6.3E-06	**1.6E+05**
	Cyanide (Amenable)	1 mg/kg	--	--	--	--	**--**	9.8E-06	--	2.8E-05	3.8E-05	**2.7E+04**
	Cyanide (Total)	1 mg/kg	--	--	--	--	**--**	9.8E-06	--	2.8E-05	3.8E-05	**2.7E+04**
	Mercury	1 mg/kg	--	--	--	--	**--**	6.5E-04	5.9E-07	1.9E-04	8.4E-04	**1.2E+03**
	Molybdenum	1 mg/kg	--	--	--	--	**--**	3.9E-05	--	1.1E-05	5.0E-05	**2.0E+04**
	Nickel	1 mg/kg	--	4.9E-12	--	4.9E-12	**2.0E+06**	9.8E-06	1.1E-06	2.8E-06	1.4E-05	**7.3E+04**
	Selenium	1 mg/kg	--	--	--	--	**--**	3.9E-05	2.7E-09	1.1E-05	5.0E-05	**2.0E+04**
	Silver	1 mg/kg	--	--	--	--	**--**	3.9E-05	--	1.1E-05	5.0E-05	**2.0E+04**
	Thallium	1 mg/kg	--	--	--	--	**--**	3.0E-03	--	8.5E-04	3.8E-03	**2.6E+02**
	Vanadium	1 mg/kg	--	--	--	--	**--**	2.0E-04	--	5.6E-05	2.5E-04	**4.0E+03**
	Zinc	1 mg/kg	--	--	--	--	**--**	6.5E-07	--	1.9E-07	8.4E-07	**1.2E+06**
	PAHs											
	2-Methylnaphthalene	1 mg/kg	--	--	--	--	**--**	6.5E-06	5.1E-10	2.8E-05	3.4E-05	**2.9E+04**
	Anthracene	1 mg/kg	--	--	--	--	**--**	6.5E-07	5.1E-11	2.8E-06	3.4E-06	**2.9E+05**
	Benzo(a)anthracene	1 mg/kg	8.4E-08	2.1E-12	3.6E-07	4.4E-07	**2.3E+01**	--	--	--	--	**--**
	Benzo(a)Pyrene	1 mg/kg	8.4E-07	2.1E-11	3.6E-06	4.4E-06	**2.3E+00**	--	--	--	--	**--**
	Benzo(b)Fluoranthene	1 mg/kg	8.4E-08	2.1E-12	3.6E-07	4.4E-07	**2.3E+01**	--	--	--	--	**--**
	Benzo(k)Fluoranthene	1 mg/kg	8.4E-08	2.1E-12	3.6E-07	4.4E-07	**2.3E+01**	--	--	--	--	**--**
	Benzo(g,h,i)Perylene	1 mg/kg	--	--	--	--	**--**	6.5E-06	5.1E-10	2.8E-05	3.4E-05	**2.9E+04**
	Chrysene	1 mg/kg	8.4E-09	2.1E-13	3.6E-08	4.4E-08	**2.3E+02**	--	--	--	--	**--**
	Dibenz(a,h)anthracene	1 mg/kg	8.4E-07	2.1E-11	3.6E-06	4.4E-06	**2.3E+00**	--	--	--	--	**--**
	Fluoranthene	1 mg/kg	--	--	--	--	**--**	4.9E-06	3.8E-10	2.1E-05	2.6E-05	**3.9E+04**
	Indeno(1,2,3-cd)pyrene	1 mg/kg	8.4E-08	2.1E-12	3.6E-07	4.4E-07	**2.3E+01**	--	--	--	--	**--**
	Phenanthrene	1 mg/kg	--	--	--	--	**--**	6.5E-07	5.1E-11	2.8E-06	3.4E-06	**2.9E+05**
	PCBs											
	Aroclor 1016	1 mg/kg	4.9E-09	3.8E-13	2.1E-08	2.6E-08	**3.9E+02**	2.8E-03	2.2E-07	1.2E-02	1.5E-02	**6.8E+01**
	Aroclor 1242	1 mg/kg	3.5E-07	1.1E-11	1.5E-06	1.8E-06	**5.4E+00**	9.8E-03	7.6E-07	4.2E-02	5.2E-02	**1.9E+01**
	Aroclor 1248	1 mg/kg	3.5E-07	1.1E-11	1.5E-06	1.8E-06	**5.4E+00**	9.8E-03	7.6E-07	4.2E-02	5.2E-02	**1.9E+01**
	Aroclor 1254	1 mg/kg	3.5E-07	1.1E-11	1.5E-06	1.8E-06	**5.4E+00**	9.8E-03	7.6E-07	4.2E-02	5.2E-02	**1.9E+01**
	Aroclor 1260	1 mg/kg	3.5E-07	1.1E-11	1.5E-06	1.8E-06	**5.4E+00**	9.8E-03	7.6E-07	4.2E-02	5.2E-02	**1.9E+01**
	Aroclor 1262	1 mg/kg	3.5E-07	1.1E-11	1.5E-06	1.8E-06	**5.4E+00**	9.8E-03	7.6E-07	4.2E-02	5.2E-02	**1.9E+01**
	Perchlorate											
	Perchlorate	1 mg/kg	--	--	--	--	**--**	2.8E-04	--	0.0E+00	2.8E-04	**3.6E+03**
	SVOCs											
	1,4-Dioxane	1 mg/kg	1.9E-09	1.5E-13	5.4E-09	7.3E-09	**1.4E+03**	--	1.8E-11	--	1.8E-11	**5.6E+10**
	4-Chloro-3-methylphenol	1 mg/kg	--	--	--	--	**--**	2.0E-06	--	5.6E-06	7.5E-06	**1.3E+05**
	Aniline	1 mg/kg	4.0E-10	3.1E-14	1.1E-09	1.5E-09	**6.5E+03**	2.8E-05	5.3E-08	8.0E-05	1.1E-04	**9.3E+03**
	Benzoic Acid	1 mg/kg	--	--	--	--	**--**	4.9E-08	3.8E-12	1.4E-07	1.9E-07	**5.3E+06**
	Bis(2-ethylhexyl)Phthalate	1 mg/kg	2.1E-10	4.6E-14	6.0E-10	8.1E-10	**1.2E+04**	9.8E-06	7.6E-10	2.8E-05	3.8E-05	**2.7E+04**
	Diethylphthalate	1 mg/kg	--	--	--	--	**--**	2.4E-07	1.9E-11	7.0E-07	9.4E-07	**1.1E+06**

Table 5-8
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Landscaper Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	RBC_{cancer}	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	$RBC_{noncancer}$
Soil:	Diisopropyl Ether	1 mg/kg	--	--	--	--	**--**	--	3.0E-04	--	3.0E-04	**3.4E+03**
Incidental ingestion	Dimethyl Phthalate	1 mg/kg	--	--	--	--	**--**	2.0E-08	1.5E-12	5.6E-08	7.5E-08	**1.3E+07**
Dermal contact	Di-n-butylphthalate	1 mg/kg	--	--	--	--	**--**	2.0E-06	1.5E-10	5.6E-06	7.5E-06	**1.3E+05**
Outdoor Inhalation	Phenol	1 mg/kg	--	--	--	--	**--**	6.5E-07	2.7E-10	1.9E-06	2.5E-06	**4.0E+05**
(RBC_{soil})	**TPH**											
	TPH - aliphatic; C5-C8	1 mg/kg	--	--	--	--	**--**	4.9E-06	2.5E-10	2.1E-05	2.6E-05	**3.9E+04**
	TPH - aliphatic; C9-C18	1 mg/kg	--	--	--	--	**--**	2.0E-06	5.1E-11	8.4E-06	1.0E-05	**9.7E+04**
	TPH - aliphatic; C≥19	1 mg/kg	--	--	--	--	**--**	9.8E-08	5.1E-11	4.2E-07	5.2E-07	**1.9E+06**
	TPH - aromatic; C5-C8	1 mg/kg	--	--	--	--	**--**	--	--	--	--	**--**
	TPH - aromatic; C9-C18	1 mg/kg	--	--	--	--	**--**	6.5E-06	2.5E-09	2.8E-05	3.4E-05	**2.9E+04**
	TPH - aromatic; C≥19	1 mg/kg	--	--	--	--	**--**	6.5E-06	--	2.8E-05	3.4E-05	**2.9E+04**
	VOCs											
	1,1,1,2-Tetrachloroethane	1 mg/kg	1.8E-09	8.5E-08	5.2E-09	9.2E-08	**1.1E+02**	6.5E-06	3.1E-04	1.9E-05	3.3E-04	**3.0E+03**
	1,1,1-Trichloroethane	1 mg/kg	--	--	--	--	**--**	7.0E-07	1.8E-04	2.0E-06	1.8E-04	**5.4E+03**
	1,1,2-Trichloroethane	1 mg/kg	5.0E-09	3.9E-07	1.4E-08	4.1E-07	**2.4E+01**	4.9E-05	4.8E-03	1.4E-04	5.0E-03	**2.0E+02**
	1,1-Dichloroethane	1 mg/kg	4.0E-10	9.5E-08	1.1E-09	9.7E-08	**1.0E+02**	2.0E-06	3.3E-04	5.6E-06	3.4E-04	**3.0E+03**
	1,1-Dichloroethene	1 mg/kg	--	--	--	--	**--**	3.9E-06	3.6E-03	1.1E-05	3.6E-03	**2.8E+02**
	1,1-Dichloropropene	1 mg/kg	6.4E-09	3.0E-13	1.8E-08	2.4E-08	**4.1E+02**	6.5E-06	2.7E-09	1.9E-05	2.5E-05	**4.0E+04**
	1,2,4-Trichlorobenzene	1 mg/kg	--	--	--	--	**--**	2.0E-05	4.8E-04	5.6E-05	5.6E-04	**1.8E+03**
	1,2,4-Trimethylbenzene	1 mg/kg	--	--	--	--	**--**	3.9E-06	4.0E-03	1.1E-05	4.0E-03	**2.5E+02**
	1,2-Dibromo-3-chloropropane	1 mg/kg	4.9E-07	7.2E-06	1.4E-06	9.1E-06	**1.1E+00**	3.4E-03	5.0E-02	9.8E-03	6.3E-02	**1.6E+01**
	1,2-Dichlorobenzene	1 mg/kg	--	--	--	--	**--**	2.2E-06	1.6E-04	6.2E-06	1.7E-04	**6.0E+03**
	1,2-Dichloroethane	1 mg/kg	3.3E-09	7.8E-07	9.4E-09	8.0E-07	**1.3E+01**	9.8E-06	2.2E-02	2.8E-05	2.2E-02	**4.6E+01**
	1,3,5-Trimethylbenzene	1 mg/kg	--	--	--	--	**--**	3.9E-06	9.7E-03	1.1E-05	9.7E-03	**1.0E+02**
	1,3-Dichlorobenzene	1 mg/kg	--	--	--	--	**--**	6.5E-06	3.0E-04	1.9E-05	3.3E-04	**3.1E+03**
	1,4-Dichlorobenzene	1 mg/kg	3.8E-10	1.5E-07	1.1E-09	1.5E-07	**6.8E+01**	6.5E-06	4.5E-05	1.9E-05	7.0E-05	**1.4E+04**
	2-Butanone (MEK)	1 mg/kg	--	--	--	--	**--**	3.3E-07	4.3E-06	9.3E-07	5.5E-06	**1.8E+05**
	2-Chlorotoluene	1 mg/kg	--	--	--	--	**--**	9.8E-06	1.1E-03	2.8E-05	1.2E-03	**8.5E+02**
	Acenaphthene	1 mg/kg	--	--	--	--	**--**	3.3E-06	1.2E-05	1.4E-05	2.9E-05	**3.4E+04**
	Acetone	1 mg/kg	--	--	--	--	**--**	2.2E-07	1.0E-05	6.2E-07	1.1E-05	**9.2E+04**
	Benzene	1 mg/kg	7.0E-09	1.6E-06	2.0E-08	1.6E-06	**6.3E+00**	4.9E-05	2.5E-03	1.4E-04	2.7E-03	**3.7E+02**
	Bromochloromethane	1 mg/kg	--	--	--	--	**--**	9.8E-06	1.2E-03	2.8E-05	1.2E-03	**8.4E+02**
	Bromodichloromethane	1 mg/kg	9.1E-09	7.0E-07	2.6E-08	7.4E-07	**1.4E+01**	9.8E-06	7.6E-04	2.8E-05	7.9E-04	**1.3E+03**
	Bromomethane	1 mg/kg	--	--	--	--	**--**	1.4E-04	4.0E-02	4.0E-04	4.0E-02	**2.5E+01**
	Carbon Disulfide	1 mg/kg	--	--	--	--	**--**	2.0E-06	3.6E-04	5.6E-06	3.7E-04	**2.7E+03**
	Carbon Tetrachloride	1 mg/kg	1.0E-08	3.0E-06	3.0E-08	3.0E-06	**3.3E+00**	2.8E-04	4.8E-03	8.0E-04	5.9E-03	**1.7E+02**
	Chlorobenzene	1 mg/kg	--	--	--	--	**--**	9.8E-06	7.2E-05	2.8E-05	1.1E-04	**9.1E+03**
	Chloroethane	1 mg/kg	2.0E-10	7.8E-08	5.8E-10	7.9E-08	**1.3E+02**	4.9E-07	8.8E-06	1.4E-06	1.1E-05	**9.4E+04**
	Chloroform	1 mg/kg	2.2E-09	3.0E-07	6.2E-09	3.1E-07	**3.2E+01**	2.0E-05	5.2E-04	5.6E-05	6.0E-04	**1.7E+03**
	Chloromethane	1 mg/kg	--	--	--	--	**--**	7.6E-06	3.1E-03	2.2E-05	3.1E-03	**3.2E+02**
	cis-1,2-Dichloroethene	1 mg/kg	--	--	--	--	**--**	2.0E-05	4.0E-03	5.6E-05	4.1E-03	**2.4E+02**
	Dibromochloromethane	1 mg/kg	6.6E-09	3.4E-07	1.9E-08	3.6E-07	**2.8E+01**	9.8E-06	5.0E-04	2.8E-05	5.4E-04	**1.8E+03**
	Dibromomethane	1 mg/kg	--	--	--	--	**--**	2.0E-05	1.5E-03	5.6E-05	1.5E-03	**6.6E+02**
	Diisopropyl ether	1 mg/kg	--	--	--	--	**--**	--	3.0E-04	--	3.0E-04	**3.4E+03**
	Ethylbenzene	1 mg/kg	--	--	--	--	**--**	2.0E-06	4.2E-05	5.6E-06	5.0E-05	**2.0E+04**
	Ethyl-Tert-Butyl Ether	1 mg/kg	--	--	--	--	**--**	2.0E-04	3.7E-04	5.6E-04	1.1E-03	**8.9E+02**
	Fluorene	1 mg/kg	--	--	--	--	**--**	4.9E-06	9.3E-06	2.1E-05	3.5E-05	**2.8E+04**
	Freon-113	1 mg/kg	--	--	--	--	**--**	6.5E-09	6.1E-06	1.9E-08	6.1E-06	**1.6E+05**
	Hexachlorobutadiene	1 mg/kg	5.5E-09	4.2E-07	1.6E-08	4.4E-07	**2.3E+01**	6.5E-04	5.0E-02	1.9E-03	5.2E-02	**1.9E+01**

Table 5-8
Summary of RBCs, Cancer Risks and Noncancer Hazards Based on Unit Concentrations
Landscaper Exposure Scenario
2701 North Harbor Drive

Exposure Pathway	Chemical	Unit EPC	Unitized Cancer Risk (CR)					Unitized Noncancer Hazard (HQ)				
			Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**RBC_{cancer}**	Incidental Ingestion	Inhalation	Dermal Contact	Exposure Routes Total	**$RBC_{noncancer}$**
Soil:	Isopropylbenzene	1 mg/kg	--	--	--	--	**--**	2.0E-06	3.2E-04	5.6E-06	3.2E-04	**3.1E+03**
Incidental ingestion	Methyl tertbutyl ether (MTBE)	1 mg/kg	1.3E-10	8.0E-09	3.6E-10	8.5E-09	**1.2E+03**	2.3E-07	1.1E-05	6.5E-07	1.2E-05	**8.6E+04**
Dermal contact	Methylene Chloride	1 mg/kg	9.8E-10	5.7E-08	2.8E-09	6.0E-08	**1.7E+02**	3.3E-06	4.0E-04	9.3E-06	4.1E-04	**2.4E+03**
Outdoor Inhalation	Naphthalene	1 mg/kg	8.4E-09	1.3E-07	3.6E-08	1.8E-07	**5.7E+01**	9.8E-06	1.2E-03	4.2E-05	1.3E-03	**8.0E+02**
(RBC_{soil})	n-Butylbenzene	1 mg/kg	--	--	--	--	**--**	4.9E-06	2.9E-04	1.4E-05	3.1E-04	**3.2E+03**
	n-Propylbenzene	1 mg/kg	--	--	--	--	**--**	4.9E-06	2.9E-04	1.4E-05	3.1E-04	**3.2E+03**
	p-Isopropyltoluene	1 mg/kg	--	--	--	--	**--**	2.0E-06	9.6E-05	5.6E-06	1.0E-04	**9.6E+03**
	Pyrene	1 mg/kg	--	--	--	--	**--**	6.5E-06	1.1E-06	1.9E-05	2.6E-05	**3.8E+04**
	sec-Butylbenzene	1 mg/kg	--	--	--	--	**--**	4.9E-06	4.0E-04	1.4E-05	4.2E-04	**2.4E+03**
	Styrene	1 mg/kg	--	--	--	--	**--**	9.8E-07	3.9E-05	2.8E-06	4.2E-05	**2.4E+04**
	tert-Butyl alcohol	1 mg/kg	--	--	--	--	**--**	6.5E-07	3.2E-05	1.9E-06	3.4E-05	**2.9E+04**
	tert-Butylbenzene	1 mg/kg	--	--	--	--	**--**	4.9E-06	3.3E-04	1.4E-05	3.5E-04	**2.9E+03**
	Tetrachloroethene	1 mg/kg	3.8E-08	3.5E-07	1.1E-07	4.9E-07	**2.0E+01**	2.0E-05	4.6E-03	5.6E-05	4.7E-03	**2.1E+02**
	Toluene	1 mg/kg	--	--	--	--	**--**	9.8E-07	3.7E-04	2.8E-06	3.8E-04	**2.7E+03**
	trans-1,2-Dichloroethene	1 mg/kg	--	--	--	--	**--**	9.8E-06	2.4E-03	2.8E-05	2.5E-03	**4.0E+02**
	Trichloroethene	1 mg/kg	9.1E-10	9.5E-08	2.6E-09	9.8E-08	**1.0E+02**	6.5E-04	2.2E-04	1.9E-03	2.7E-03	**3.7E+02**
	Vinyl Chloride	1 mg/kg	1.9E-08	8.5E-06	5.4E-08	8.6E-06	**1.2E+00**	6.5E-05	3.1E-03	1.9E-04	3.3E-03	**3.0E+02**
	Xylenes	1 mg/kg	--	--	--	--	**--**	9.8E-07	1.1E-04	2.8E-06	1.1E-04	**9.0E+03**

Notes and equations:

" -- " not applicable or not available; TR = target risk; THI = target noncancer hazard

RBC based on cancer effects:

$$RBC_{soil} = \frac{TR = 1 \times 10^{-5}}{\left(CR_{ingestion} + CR_{dermal} + CR_{inhalation}\right)}$$

RBC based on noncancer effects:

$$RBC_{soil} = \frac{THI = 1}{\left(HQ_{ingestion} + HQ_{dermal} + HQ_{inhalation}\right)}$$

Table 5-9
Summary of Risk-Based Concentrations
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters					
	Soil RBCs		Groundwater RBCs		Soil Gas RBCs	
	Cancer RBC (mg/kg)	Noncancer RBC (mg/kg)	Cancer RBC (µg/L)	Noncancer RBC (µg/L)	Cancer RBC (µg/L)	Noncancer RBC (µg/L)
Inorganics						
Antimony	--	1.2E+02	--	6.2E+03	--	--
Arsenic	2.8E+00	6.1E+01	1.1E+03	4.6E+03	--	--
Barium	--	3.1E+03	--	1.1E+06	--	--
Beryllium	2.1E+03	4.7E+01	--	3.1E+04	--	--
Cadmium	1.2E+03	9.9E+01	--	7.7E+03	--	--
Chromium	--	4.5E+05	--	2.3E+07	--	--
Chromium, Hexavalent	3.5E+01	5.7E+02	--	2.3E+04	--	--
Cobalt	--	1.4E+02	--	3.1E+05	--	--
Copper	--	1.2E+04	--	6.2E+05	--	--
Cyanide (Amenable)	--	4.8E+03	--	3.1E+05	--	--
Cyanide (Total)	--	4.8E+03	--	3.1E+05	--	--
Mercury	--	7.9E+01	--	4.6E+03	--	--
Molybdenum	--	1.5E+03	--	7.7E+04	--	--
Nickel	2.0E+04	3.4E+02	--	1.5E+06	--	--
Selenium	--	1.5E+03	--	7.7E+04	--	--
Silver	--	1.5E+03	--	7.7E+04	--	--
Thallium	--	2.0E+01	--	1.0E+03	--	--
Vanadium	--	3.0E+02	--	1.5E+04	--	--
Zinc	--	9.0E+04	--	7.7E+06	--	--
PAHs						
2-Methylnaphthalene	--	6.4E+03	--	3.1E+03	--	--
Anthracene	--	6.4E+04	--	--	--	--
Benzo(a)anthracene	1.8E+01	--	6.8E+00	--	--	--
Benzo(a)Pyrene	1.8E+00	--	--	--	--	--
Benzo(b)Fluoranthene	1.8E+01	--	--	--	--	--
Benzo(k)Fluoranthene	1.8E+01	--	--	--	--	--
Benzo(g,h,i)Perylene	--	6.4E+03	--	1.1E+02	--	--
Chrysene	1.8E+02	--	6.8E+01	--	--	--
Dibenz(a,h)anthracene	1.8E+00	--	2.6E-01	--	--	--
Fluoranthene	--	8.5E+03	--	1.2E+03	--	--
Indeno(1,2,3-cd)pyrene	1.8E+01	--	3.8E+00	--	--	--
Phenanthrene	--	6.4E+04	--	1.6E+04	--	--
PCBs						
Aroclor 1016	3.0E+02	1.5E+01	1.5E+02	1.1E+00	--	--
Aroclor 1242	4.3E+00	4.2E+00	9.5E-01	1.4E-01	--	--
Aroclor 1248	4.3E+00	4.2E+00	8.8E-01	1.3E-01	--	--
Aroclor 1254	4.3E+00	4.2E+00	5.5E-01	7.8E-02	--	--
Aroclor 1260	4.3E+00	4.2E+00	8.9E-02	1.3E-02	--	--
Aroclor 1262	4.3E+00	4.2E+00	8.9E-02	1.3E-02	--	--
Perchlorate						
Perchlorate	--	2.2E+02	--	--	--	--
SVOCs						
1,4-Dioxane	8.6E+02	2.2E+07	9.1E+05	--	--	--
4-Chloro-3-methylphenol	--	2.4E+04	--	3.3E+04	--	--
Aniline	4.1E+03	1.4E+03	7.6E+05	4.3E+04	--	--
Benzoic Acid	--	9.4E+05	--	7.3E+06	--	--
Bis(2-ethylhexyl)Phthalate	7.7E+03	4.7E+03	2.3E+04	1.9E+03	--	--

Table 5-9
Summary of Risk-Based Concentrations
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters					
	Soil RBCs		Groundwater RBCs		Soil Gas RBCs	
	Cancer RBC (mg/kg)	Noncancer RBC (mg/kg)	Cancer RBC (µg/L)	Noncancer RBC (µg/L)	Cancer RBC (µg/L)	Noncancer RBC (µg/L)
Diethylphthalate	--	1.9E+05	--	1.2E+06	--	--
Diisopropyl Ether	--	1.5E+02	--	--	--	--
Dimethyl Phthalate	--	2.4E+06	--	5.0E+07	--	--
Di-n-butylphthalate	--	2.4E+04	--	1.9E+04	--	--
Phenol	--	6.8E+04	--	7.9E+05	--	--
TPH						
TPH - aliphatic; C5-C8	--	8.5E+03	--	1.3E+04	--	--
TPH - aliphatic; C9-C18	--	2.1E+04	--	3.3E+04	--	--
TPH - aliphatic; C≥19	--	4.0E+05	--	6.6E+05	--	--
TPH - aromatic; C5-C8	--	--	--	--	--	--
TPH - aromatic; C9-C18	--	6.2E+03	--	1.0E+04	--	--
TPH - aromatic; C≥19	--	6.4E+03	--	1.0E+04	--	--
VOCs						
1,1,1,2-Tetrachloroethane	2.8E+01	1.4E+02	9.8E+03	1.1E+04	1.7E+01	4.6E+02
1,1,1-Trichloroethane	--	2.4E+02	--	8.0E+04	--	4.3E+03
1,1,2-Trichloroethane	6.0E+00	8.9E+00	3.6E+03	1.2E+03	7.3E+00	6.0E+01
1,1-Dichloroethane	2.5E+01	1.3E+02	3.0E+04	3.5E+04	7.5E+01	2.2E+03
1,1-Dichloroethene	--	1.2E+01	--	4.8E+03	--	2.8E+02
1,1-Dichloropropene	2.6E+02	6.8E+03	3.3E+03	1.5E+03	8.3E+00	9.3E+01
1,2,4-Trichlorobenzene	--	8.7E+01	--	1.1E+03	--	2.4E+02
1,2,4-Trimethylbenzene	--	1.1E+01	--	4.6E+02	--	2.8E+01
1,2-Dibromo-3-chloropropane	3.1E-01	8.1E-01	5.0E+01	2.8E+01	1.2E-01	1.7E+00
1,2-Dichlorobenzene	--	2.7E+02	--	1.7E+04	--	8.9E+02
1,2-Dichloroethane	3.1E+00	2.0E+00	2.5E+03	3.6E+02	5.3E+00	1.9E+01
1,3,5-Trimethylbenzene	--	4.5E+00	--	4.5E+02	--	2.8E+01
1,3-Dichlorobenzene	--	1.4E+02	--	4.8E+03	--	4.7E+02
1,4-Dichlorobenzene	1.6E+01	8.5E+02	5.3E+03	6.6E+03	1.1E+01	3.6E+03
2-Butanone (MEK)	--	9.5E+03	--	9.2E+05	--	2.1E+04
2-Chlorotoluene	--	3.8E+01	--	3.7E+03	--	3.1E+02
Acenaphthene	--	2.8E+03	--	6.1E+03	--	1.2E+03
Acetone	--	4.3E+03	--	4.3E+05	--	1.2E+04
Benzene	1.5E+00	1.7E+01	1.5E+03	3.3E+03	4.0E+00	2.5E+02
Bromochloromethane	--	3.7E+01	--	5.7E+03	--	3.7E+02
Bromodichloromethane	3.4E+00	5.7E+01	1.7E+03	6.4E+03	5.1E+00	4.8E+02
Bromomethane	--	1.1E+00	--	3.4E+02	--	2.2E+01
Carbon Disulfide	--	1.2E+02	--	4.8E+04	--	3.1E+03
Carbon Tetrachloride	8.2E-01	8.6E+00	1.4E+03	3.4E+03	2.8E+00	1.7E+02
Chlorobenzene	--	5.3E+02	--	7.8E+03	--	4.4E+03
Chloroethane	3.1E+01	4.7E+03	4.7E+04	8.3E+05	1.1E+02	9.3E+04
Chloroform	7.9E+00	8.1E+01	9.9E+03	1.5E+04	2.0E+01	1.2E+03
Chloromethane	--	1.4E+01	--	4.5E+03	--	3.3E+02
cis-1,2-Dichloroethene	--	1.1E+01	--	2.4E+03	--	1.5E+02
Dibromochloromethane	7.0E+00	8.5E+01	2.8E+03	7.4E+03	9.3E+00	6.3E+02
Dibromomethane	--	3.0E+01	--	3.4E+03	--	1.9E+02
Diisopropyl ether	--	1.5E+02	--	2.7E+04	--	1.7E+03
Ethylbenzene	--	9.9E+02	--	2.4E+04	--	8.7E+03
Ethyl-Tert-Butyl Ether	--	7.9E+01	--	1.5E+03	--	1.3E+03
Fluorene	--	3.0E+03	--	3.0E+03	--	8.5E+02

Table 5-9
Summary of Risk-Based Concentrations
Site Wide Risk Assessment
2701 North Harbor Drive

COPCs	RBCs using Site-Specific Paramaters					
	Soil RBCs		Groundwater RBCs		Soil Gas RBCs	
	Cancer RBC (mg/kg)	Noncancer RBC (mg/kg)	Cancer RBC (µg/L)	Noncancer RBC (µg/L)	Cancer RBC (µg/L)	Noncancer RBC (µg/L)
Freon-113	--	7.2E+03	--	2.8E+06	--	1.3E+05
Hexachlorobutadiene	5.7E+00	8.7E-01	5.5E+02	1.9E+01	6.1E+00	5.1E+00
Isopropylbenzene	--	1.4E+02	--	1.2E+04	--	1.8E+03
Methyl tertbutyl ether (MTBE)	3.0E+02	4.0E+03	1.9E+05	5.6E+05	4.2E+02	3.1E+04
Methylene Chloride	4.2E+01	1.1E+02	4.6E+04	2.6E+04	1.1E+02	1.6E+03
Naphthalene	1.7E+01	3.6E+01	1.3E+03	7.9E+02	3.9E+00	4.3E+01
n-Butylbenzene	--	1.5E+02	--	2.0E+03	--	6.8E+02
n-Propylbenzene	--	1.5E+02	--	4.4E+03	--	6.6E+02
p-Isopropyltoluene	--	4.4E+02	--	6.4E+03	--	1.9E+03
Pyrene	--	6.0E+03	--	9.8E+02	--	7.5E+02
sec-Butylbenzene	--	1.1E+02	--	2.8E+03	--	6.8E+02
Styrene	--	1.1E+03	--	6.2E+04	--	4.0E+03
tert-Butyl alcohol	--	1.3E+03	--	1.1E+05	--	4.3E+03
tert-Butylbenzene	--	1.3E+02	--	2.4E+03	--	6.8E+02
Tetrachloroethene	6.0E+00	9.4E+00	3.2E+02	2.5E+03	2.1E+01	1.5E+02
Toluene	--	1.2E+02	--	2.0E+04	--	1.2E+03
trans-1,2-Dichloroethene	--	1.8E+01	--	4.8E+03	--	3.1E+02
Trichloroethene	2.5E+01	5.2E+01	2.8E+04	2.6E+02	5.9E+01	2.5E+03
Vinyl Chloride	2.8E-01	1.4E+01	5.0E+02	5.5E+03	1.4E+00	3.9E+02
Xylenes	--	4.0E+02	--	4.4E+04	--	3.0E+03

Notes:
" -- " not applicable
[a] Soil pathways include: incidental soil ingestion, dermal contact, and outdoor inhalation of particulates/vapors
[b] Groundwater pathways include dermal contact, and outdoor inhalation of vapors
[c] Soil gas pathway includes indoor inhalation of vapors

Table 6-1

Unit Price Breakdown of Average Costs Incorporated into Feasibility Study Tables

Alternative	Volume Range	Unit Cost	Assumptions
EISB	500 points	$4,500/point	mob/demob, Inject 1,300 gallons 1% EVO solution, + 0.5 L KB-1, labor, oversight, injection, equipment, permitting, IDW
	300 points	$4,900/point	
	5 points	$11,600/point	
ISR Injection	10 points	$4,600/point	mob/demob, Inject 1,300 gallons FeSO4 solution, labor, oversight, injection, equipment, permitting, IDW disposal, concrete coring,
Regenox/ORC Injections	3 injections	$10,700/injection	3 points per injection, mob demob, sampling, oversight, labor.
In-Situ Soil Mixing	675 cy	$280/cy	mob/demob, soil amendment, labor, oversight
	450 cy	$1,030/cy	mob/demob, soil amendment, labor, oversight
Monitor Well Installation	2 wells	$7,500/well	Mob/demob, concrete cutting, permitting, labor, oversight, IDW disposal, development
Short-Term Quarterly Monitoring	6 wells	$12,250/event	Monitoring and reporting, labor, analytical, IDW disposal, equipment
Long-Term Semiannual monitoring (30-year)	7 wells	$6,300/event	Monitoring and reporting, labor, analytical, IDW disposal, equipment. 6% NPV discount
Excavation	18,000 cy	$100/yd	Mob/Demob, Concrete Cutting, Excavation, Backfill, profiling, oversight
	4,500 cy	$120/yd	Mob/Demob, Concrete Cutting, Excavation, Backfill, profiling, oversight
	200 cy	$370/yd	Mob/Demob, Concrete Cutting, Excavation, Backfill, profiling, oversight
	37 cy	$510/yd	Mob/Demob, Concrete Cutting, Excavation, Backfill, profiling, oversight
Transportation/Disposal	18,000 cy	$400/bcy	RCRA haz, transportation to Beatty, NV, oversight, $165/ton
	4,500 cy	$400/bcy	RCRA haz, transportation to Beatty, NV, oversight, $165/ton
	200 cy	$410/bcy	RCRA haz, transportation to Beatty, NV, oversight, 169/ton
	37 cy	$430/bcy	RCRA haz, transportation to Beatty, NV, oversight $177/ton
Groundwater Disposal	1,200,000 gal	$1.50/gal	pump, transport, dispose, oversight, analysis
	150,000 gal	$1.50/gal	pump, transport, dispose, oversight, analysis

cy - cubic yard

bcy - banked cubic yard

gal - gallon

Average unit costs incorporated into cost tables are provided over a range of volumes to illustrate how unit costs are affected by economies of scale, reduced mobilization costs, and oversight costs which are distributed across a larger project as the scope of an alternative implementation is increased. Actual unit costs indicated on the cost tables may vary slightly from the averages presented above due to AOC/AOPC specific considerations regarding access/clearance, or other unique circumstances, however the bulk of the unit price consideration may be evaluated based on this table.

Table 6-2
Summary of Detailed Feasibility Analysis for AOC Building 131/242
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• LIMITED ◦ Minimal reduction in exposure	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	◦ No additional costs by implementation	Total: **$0**
MNA	• LIMITED ◦ VOC products present in groundwater indicate natural degradation process is in early stage ◦ Exposure is expected to be reduced over time	• READILY ◦ Limited material or equipment required ◦ Easily monitored and maintained until action is complete	• LIMITED ◦ No short-term reduction in exposure and long time frame to achieve risk and background	◦ Install 2 monitor wells ◦ Monitor 7 wells semiannually for 30 years	Total: **$403,000** $23,000 $380,000
EISB and Targeted Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Groundwater risk or hazard is expected to be reduced within a reasonable time frame ◦ Exposure to soil gas is expected to be reduced over time in conjunction with groundwater reduction	• MODERATE ◦ Addition of electron donor and biological media will be time consuming ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Soil exposure eliminated in short time frame ◦ Groundwater exposure eliminated over moderate period of time	◦ Excavate and backfill 104 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ EISB injection ◦ Monitor well installation ◦ Quarterly groundwater monitoring, analysis, and reporting for 3 years	Total: **$1,622,000** $25,000 $43,000 $1,392,000 $15,000 $147,000
Alternative Potential DNAPL Excavation with EISB and Targeted Excavation	• MODERATE ◦ Soil exposure is eliminated ◦ Exposure to groundwater within excavation area is eliminated; groundwater concentrations reduced outside excavation area ◦ VOC products present in groundwater indicate natural degradation process is in early stage	• MODERATE ◦ Material and equipment readily available ◦ Moderate sized excavation with only Building 242 in the way ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Soil exposure eliminated in short time frame ◦ Groundwater exposure eliminated over longer period of time ◦ Some risk associated with excavation	◦ Excavate and backfill 6,500 cubic yards of soil ◦ Transport and dispose of soil ◦ Pump, transport, and dispose of 410,000 gallons of water ◦ EISB injection ◦ Monitor well installation ◦ Groundwater monitoring and analysis for 3 years	Total: **$4,918,000** $646,000 $2,538,000 $607,000 $920,000 $15,000 $147,000
Whole-AOC Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to groundwater within excavation area is eliminated; groundwater concentrations reduced outside excavation area ◦ Soil gas exposure is eliminated	• DIFFICULT ◦ Traffic congestion would disrupt public transportation around airport ◦ Fugitive volitilization of VOCs difficult to control ◦ Difficult to implement with buildings in place	• HIGH ◦ Soil exposure eliminated ◦ Groundwater exposure eliminated within the excavation area ◦ Increased risk of incidental accident in large scale excavation	◦ Excavate and backfill 17,900 cubic yards of soil ◦ Transport and dispose of soil ◦ Pump, transport, and dispose of 1,160,000 gallons of water	Total: **$10,703,000** $1,764,000 $7,196,000 $1,743,000

Notes:
AOC - Area of concern
DNAPL - Dense non-aqueous phase liquid
EISB - Enhanced in-situ bioremediation
MNA - Monitored natural attenuation
VOC - Volatile organic compound
Net Present Value calculated assuming 6% interest Rate

Table 6-3
Summary of Detailed Feasibility Analysis for AOC Building 156
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• LIMITED ◦ Minimal reduction in exposure	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	◦ No additional costs by implementation	Total: **$0**
Targeted Excavations	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to soil gas is expected to be reduced over time as source concentrations decrease	• READILY ◦ Material and equipment readily available ◦ Small sized excavation	• HIGH ◦ Soil exposure eliminated	◦ Excavate and backfill 37 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste	Total: **$35,000** $19,000 $16,000
Alternative Metals Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to soil gas is expected to be reduced over time in conjunction with groundwater reduction	• MODERATE ◦ Material and equipment readily available ◦ Moderate sized excavation however may be difficult with Building 156 remaining	• HIGH ◦ Soil exposure eliminated in short time frame ◦ Some risk associated with excavation	◦ Excavate and backfill 4,500 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste	Total: **$2,300,000** $540,000 $1,760,000
Whole-AOC Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Soil gas exposure is eliminated	• DIFFICULT ◦ Traffic congestion would disrupt public transportation around airport ◦ Difficult to implement with buildings in place	• HIGH ◦ Soil exposure eliminated ◦ Groundwater concentrations eliminated within the excavation area ◦ Increased risk of incidental accident in large scale excavation	◦ Excavate and backfill 26,000 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 1,680,000 gallons of groundwater as hazardous waste	Total: **$14,324,000** $2,356,000 $9,635,000 $2,333,000

Notes:
AOC - Area of concern
DNAPL - Dense non-aqueous phase liquid
Net Present Value calculated assuming 6% interest Rate

Draft Table 6-4
Summary of Detailed Feasibility Analysis for AOC Building 158
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• LIMITED ◦ Minimal reduction in exposure	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	◦ No additional costs by implementation	Total: **$0**
Targeted Excavation and ISR by $FeSO_4$	• HIGH ◦ Potential LNAPL source removed ◦ Exposure due to groundwater expected to be reduced within a reasonable time frame	• MODERATE ◦ Material and equipment readily available ◦ Easily achieved with regard to technology specific requirements ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Groundwater exposure eliminated in reasonable time frame	◦Excavate and backfill 475 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ $FeSO_4$ injection ◦ Monitor well installation ◦ Groundwater monitoring and analysis for 3 years	Total: **$426,000** $48,000 $175,000 $46,000 $21,000 $136,000
Targeted Excavation and ISR by EVO	• HIGH ◦ Potential LNAPL source removed ◦ Exposure due to groundwater expected to be reduced within a reasonable time frame	• MODERATE ◦ Material and equipment readily available ◦ Easily achieved with regard to technology specific requirements ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Groundwater exposure eliminated in reasonable time frame	◦Excavate and backfill 475 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ EVO injection ◦ Monitor well installation ◦ Groundwater monitoring and analysis for 3 years	Total: **$447,000** $48,000 $175,000 $67,000 $21,000 $136,000
Targeted Excavation, ISR by In-Situ Soil Mixing of FeSO4 and Injection of EVO	• HIGH ◦ Potential LNAPL source removed ◦ Exposure due to groundwater expected to be reduced within a reasonable time frame	• MODERATE ◦ Material and equipment readily available ◦ Easily achieved with regard to technology specific requirements ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Groundwater exposure eliminated in reasonable time frame	◦Excavate and backfill 26 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ In-Situ Soil Mixing (450 cubic yards of soil) ◦ Confirmation Sampling ◦ EVO injection ◦ Monitor well installation ◦ Groundwater monitoring and analysis for 3 years	Total: **$419,000** $19,000 $11,000 $154,000 $11,000 $67,000 $21,000 $136,000
Targeted Excavation, In-Situ Soil Mixing of $FeSO_4$	• HIGH ◦ Potential LNAPL source removed ◦ Exposure due to groundwater expected to be reduced within a reasonable time frame	• MODERATE ◦ Material and equipment readily available ◦ Easily achieved with regard to technology specific requirements ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Groundwater exposure eliminated in reasonable time frame	◦Excavate and backfill 26 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ In-Situ Soil Mixing (675 cubic yards of soil) ◦ Confirmation Sampling ◦ Monitor well installation ◦ Groundwater monitoring and analysis for 3 years	Total: **$400,000** $19,000 $11,000 $191,000 $22,000 $21,000 $136,000
Whole-AOC Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to groundwater within excavation area is eliminated	• DIFFICULT ◦ Excavation area moderate size ◦ Difficult to implement with buildings in place	• HIGH ◦ Soil exposure eliminated ◦ Groundwater exposure eliminated within the excavation area ◦ Increased risk of incidental accident in large scale excavation	◦ Excavate and backfill 2,000 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 130,000 gallons of groundwater as hazardous waste	Total: **$1,229,000** $228,000 $803,000 $198,000

Notes:
AOC - Area of concern
$FeSO_4$ - Ferrous sulfate

RBC - Risk based concentration
ISR - In-Situ Reduction
EVO- Emulsified Vegetable Oil

Table 6-5
Summary of Detailed Feasibility Analysis for AOC Building 102
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• LIMITED ◦ Minimal reduction in exposure	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	◦ No additional costs by implementation	Total: **$0**
Targeted Excavation with Chemox/ Biostimulation	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to soil gas is expected to be reduced over time as source concentrations decrease	• MODERATE ◦ Material and equipment readily available ◦ Small sized excavation ◦ Small injection area	• HIGH ◦ Soil exposure eliminated	◦ Excavate and backfill 26 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Perform 3 direct push injections of RegenOX/ORC ◦ Confirmation Sampling	Total: **$67,000** $19,000 $11,000 $32,000 $5,000
Targeted Excavations	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to soil gas is expected to be reduced over time as source concentrations decrease	• MODERATE ◦ Material and equipment readily available ◦ Small sized excavation	• HIGH ◦ Soil exposure eliminated	◦ Excavate and backfill 52 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, Transport, and dispose of 5,000 gallons of water as hazardous waste ◦ Confirmation Sampling	Total: **$75,000** $38,000 $24,000 $8,000 $5,000
Whole-AOC Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to groundwater within excavation area is eliminated; groundwater concentrations reduced outside excavation area ◦ Soil gas exposure is eliminated	• DIFFICULT ◦ Large excavation ◦ Cannot be implemented with buildings in place	• HIGH ◦ Soil exposure eliminated ◦ Groundwater and soil gas exposure eliminated within the excavation area ◦ Increased risk of incidental accident in large scale excavation	◦ Excavate and backfill 2,600 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 168,000 gallons of water as hazardous waste	Total: **$1,578,000** $270,000 $1,050,000 $258,000

Notes:
AOC - Area of concern
Net Present Value calculated assuming 6% interest Rate

Table 6-6
Summary of Detailed Feasibility Analysis for AOC Building 120 South
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• LIMITED ◦ Minimal reduction in exposure	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	◦ No additional costs by implementation	Total: **$0**
Soil Vapor Extraction	• LIMITED ◦ Unlikely to achieve significant concentration reduction for heavy range oils	• MODERATE ◦ Material available ◦ Easily monitored and maintained until action is complete	• LIMITED ◦ Soil concentrations reduced	◦ Rental of soil vapor extraction equipment and installation of monitor wells ◦ Analytical testing and labor for operation, monitoring, and maintenance	Total: **$230,000** $188,000 $42,000
Targeted Excavation with LNAPL Removal	• MODERATE ◦ Soil exposure is eliminated ◦ Potential LNAPL source removed	• READILY ◦ Small sized excavation area ◦ Excavation area located inside building	• HIGH ◦ Unknown if risk or hazard exists at AOC ◦ Soil exposure eliminated	◦ Excavate and backfill 600 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 10,000 gallons of water as hazardous waste	**Total: $480,000** $220,000 $245,000 $15,000
Whole-AOC Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to groundwater within excavation area is eliminated; groundwater concentrations reduced outside excavation area ◦ Soil gas exposure is eliminated	• DIFFICULT ◦ Large excavation ◦ Cannot be implemented with buildings in place	• HIGH ◦ Soil exposure eliminated ◦ Groundwater and soil gas exposure eliminated within the excavation area ◦ Increased risk of incidental accident in large scale excavation	◦ Excavate and backfill 5,200 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 300,000 gallons of water as hazardous waste	Total: **$3,104,000** $540,000 $2,100,000 $464,000

Notes:
AOC - Area of concern
LNAPL - Light non-aqueous phase liquid
Net Present Value calculated assuming 6% interest Rate

Table 6-7
Summary of Detailed Feasibility Analysis for AOC Building 166 AST/120/121
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• LIMITED ◦ Minimal reduction in exposure	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	◦ No additional costs by implementation	Total: **$0**
MNA	• LIMITED ◦ Exposure is expected to be reduced over time ◦ VOC products present in groundwater indicate natural degradation process is in early stage	• READILY ◦ Limited material or equipment required ◦ Easily monitored and maintained until action is complete	• LIMITED ◦ No short-term reduction in exposure and long time frame to reduce exposure and achieve background concentrations	◦ Install 2 monitor wells ◦ Monitor 9 wells semiannually for 30 years	Total: **$403,000** $28,000 $391,000
EISB and Targeted Excavations	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to groundwater is expected to be within RBCs within a reasonable time frame ◦ Exposure to soil gas is expected to be reduced over time in conjunction with groundwater reduction	• MODERATE ◦ Addition of electron donor and biological media will be time consuming ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Soil exposure eliminated in short time frame ◦ Groundwater exposure eliminated over moderate period of time	◦ Excavate and backfill 260 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 20,000 gallons of water as hazardous waste ◦ EISB injection ◦ Monitor well installation ◦ Groundwater monitoring and analysis for 3 years	Total: **$2,746,000** $96,000 $107,000 $30,000 $2,343,000 $19,000 $151,000
Alternative Potential DNAPL and PCB Excavations with EISB	• MODERATE ◦ Exposure to soil and groundwater in excavation area is eliminated ◦ VOC products present in groundwater indicate natural degradation process is in early stage ◦ Exposure to soil gas is expected to be reduced over time in conjunction with groundwater reduction	• DIFFICULT ◦ Traffic congestion would disrupt public transportation around airport ◦ Difficult to implement with buildings in place ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Soil exposure eliminated in short time frame ◦ Groundwater exposure eliminated over longer period of time ◦ Some risk associated with excavation	◦ Excavate and backfill 19,760 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 1,250,000 gallons of water as hazardous waste ◦ EISB injection ◦ Monitor well installation ◦ Groundwater monitoring and analysis for 3 years	Total: **$14,301,000** $2,054,000 $7,890,000 $1,844,000 $2,343,000 $19,000 $151,000
Whole-AOC Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to groundwater within excavation area is eliminated; groundwater concentrations reduced outside excavation area ◦ Soil gas exposure is eliminated	• DIFFICULT ◦ Traffic congestion would disrupt public transportation around airport ◦ Fugitive volitilization of VOCs difficult to control ◦ Difficult to implement with buildings in place	• MODERATE to HIGH ◦ Soil exposure eliminated ◦ Groundwater exposure eliminated within the excavation area ◦ Increased risk of incidental accident in large scale excavation	◦ Excavate and backfill 62,000 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 4,000,000 gallons of water as hazardous waste	Total: **$37,290,000** $6,255,000 $24,990,000 $6,045,000

Notes:
AOC - Area of concern
AST - Above ground solvent tank
DNAPL - Dense non-aqueous phase liquid
EISB - Enhanced in-situ bioremediation
MNA - Monitored natural attenuation
RBC - Risk based concentration
VOC - Volatile organic compound

Table 6-8
Summary of Detailed Feasibility Analysis for AOC Former Maintenance Yard
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• LIMITED ◦ Minimal reduction in exposure	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	◦ No additional costs by implementation	Total: **$0**
MNA	• LIMITED ◦ Exposure is expected to be reduced over time ◦ VOC products present in groundwater indicate natural degradation process is in early stage	• READILY ◦ Limited material or equipment required ◦ Easily monitored and maintained until action is complete	• LIMITED ◦ Long time frame to reduce exposure and achieve background concentrations	◦ Install 2 monitor wells ◦ Monitor 2 wells semiannually for 10 years	Total: **$122,000** $23,000 $99,000
EISB	• HIGH ◦ Groundwater concentrations are expected to be below RBCs within a reasonable time frame ◦ Exposure to soil gas is expected to be reduced over time in conjunction with groundwater reduction	• MODERATE ◦ Addition of electron donor and biological media will be time consuming ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Groundwater exposure eliminated over moderate period of time	◦ EISB injection ◦ Monitor well installation ◦ Quarterly groundwater monitoring and analysis for 3 years	Total: **$198,000** $130,000 $15,000 $53,000
EISB and Alternative Metals Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Groundwater concentrations are expected to be below RBCs within a reasonable time frame ◦ Exposure to soil gas is expected to be reduced over time in conjunction with groundwater reduction	• MODERATE ◦ Moderate sized excavation area ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Soil exposure eliminated in short time frame ◦ Groundwater exposure eliminated over moderate period of time ◦ Some risk associated with excavation	◦ Excavate and backfill 3,500 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ EISB injection ◦ Monitor well installation ◦ Groundwater monitoring and analysis for 3 years	Total: **$1,936,000** $378,000 $1,360,000 $130,000 $15,000 $53,000
Whole-AOC Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to groundwater within excavation area is eliminated; groundwater concentrations reduced outside excavation area ◦ Soil gas exposure is eliminated	• DIFFICULT ◦ Traffic congestion would disrupt public transportation around airport ◦ Fugitive volitilization of VOCs difficult to control	• HIGH ◦ Soil exposure eliminated ◦ Groundwater and soil gas exposure eliminated within the excavation area ◦ Increased risk of incidental accident in large scale excavation	◦ Excavate and backfill 18,700 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 1,210,000 gallons of water as hazardous waste	Total: **$11,197,000** $1,845,000 $7,528,000 $2,094,000

Notes:
AOC - Area of concern
EISB - Enhanced in-situ bioremediation
MNA - Monitored natural attenuation
RBC - Risk based concentration
VOC - Volatile organic compound

Table 6-9
Summary of Detailed Feasibility Analysis for AOC Building 180
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• HIGH ◦ No known risk at AOPC	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	◦ No additional costs by implementation	Total: **$0**
MNA	• LIMITED ◦ Exposure is expected to be reduced over time ◦ VOC products present in groundwater indicate natural degradation process is in early stage	• READILY ◦ Limited material or equipment required ◦ Easily monitored and maintained until action is complete	• LIMITED ◦ Long time frame to reduce exposure and achieve background concentrations	◦ Install 1 monitor well ◦ Monitor 2 wells semiannually for 3 years	Total: **$44,000** $18,000 $26,000
EISB w/ Targeted Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Groundwater concentrations are expected to be below RBCs within a reasonable time frame ◦ Exposure to soil gas is expected to be reduced over time in conjunction with groundwater reduction	• MODERATE ◦ Small sized excavation ◦ Addition of electron donor and biological media will be time consuming ◦ Easily monitored and maintained until action is complete	• HIGH ◦ Soil exposure eliminated in short time frame ◦ Groundwater exposure eliminated over moderate period of time	◦ Excavate and backfill 19 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ EISB Injection ◦ Monitor well installation ◦ Quarterly groundwater monitoring, analysis, and reporting for 3 years	Total: **$145,000** $19,000 $11,000 $58,000 $10,000 $47,000
Whole-AOC Excavation	• HIGH ◦ Soil exposure is eliminated ◦ Exposure to groundwater within excavation area is eliminated; groundwater concentrations reduced outside excavation area ◦ Soil gas exposure is eliminated	• DIFFICULT ◦ Moderate sized excavation ◦ Difficult to implement with buildings in place	• HIGH ◦ Soil exposure eliminated ◦ Groundwater and soil gas exposure eliminated within the excavation area ◦ Increased risk of incidental accident in large scale excavation	◦ Excavate and backfill 2,600 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 168,000 gallons of water as hazardous waste	Total: **$1,578,000** $270,000 $1,050,000 $258,000

Notes:
AOC - Area of potential concern
EISB - Enhanced in-situ bioremediation

Table 6-10
Summary of Detailed Feasibility Analysis for AOPC Explosives Area
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• HIGH ◦ No known risk at AOPC	• READILY ◦ No material or equipment required	• HIGH ◦ No known risk at AOPC	◦ No additional costs by implementation	Total: **$0**
Alternative Excavation	• HIGH ◦ Background exceedances in soil are eliminated ◦ Background exceedances in groundwater within excavation area are eliminated	• MODERATE ◦ Small excavation area ◦ Easily achieved with regard to technology specific requirements	• HIGH ◦ No known risk at AOPC ◦ Soil exceedances reduced to background ◦ Groundwater concentrations reduced within the excavation area	◦ Excavate and Backfill 20 cubic yards of soil ◦ Transport and Dispose of soil as hazardous waste	Total: **$27,000** $19,000 $8,000

Notes:
AOPC - Area of potential concern

Table 6-11
Summary of Detailed Feasibility Analysis for AOPC Test Cell #4/Area D
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• HIGH ◦ No known risk at AOPC	• READILY ◦ No material or equipment required	• HIGH ◦ No known risk at AOPC	◦ No additional costs by implementation	Total: **$0**
Two-Phase Extraction	• HIGH ◦ There is no calculated risk associated with this area ◦ Could achieve background concentrations in immediate vicinity of extraction	• READILY ◦ Material and equipment avialable ◦ Easily monitored and maintained until action is complete	• HIGH ◦ No known risk at AOPC ◦ Soil concentrations reduced ◦ Reduction in groundwater and soil gas concentrations	◦ Rental of two phase extraction equipment ◦ Collection and disposal of water ◦ Analytical testing and labor for operation, monitoring, and maintenance	Total: **$27,000** $6,000 $7,000 $14,000
Targeted Excavation	• HIGH ◦ Soil exposure is eliminated ◦ LNAPL is eliminated ◦ Exposure to soil gas is expected to be reduced over time as source concentrations decrease	• READILY ◦ Material and equipment readily available ◦ Small sized excavation	• HIGH ◦ LNAPL is eliminated	◦ Excavate and backfill 50 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, Transport, and dispose of 5,000 gallons of water as hazardous waste	Total: **$55,500** $26,000 $21,500 $8,000
Whole-AOPC Excavation	• HIGH ◦ Background exceedances in soil are eliminated ◦ Background exceedances in groundwater within excavation area are eliminated ◦ Groundwater concentrations reduced outside excavation area	• MODERATE ◦ Moderate sized excavation area	• HIGH ◦ No known risk at AOPC ◦ Soil exceedances reduced to background ◦ Groundwater concentrations reduced within the excavation area	◦ Excavate and backfill 4,700 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 300,000 gallons of water as hazardous waste	Total: **$2,801,000** $470,000 $1,874,000 $457,000

Notes:
AOPC - Area of potential concern

Table 6-12
Summary of Detailed Feasibility Analysis for AOPC Building 142
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• HIGH ◦ No known risk at AOPC	• READILY ◦ No material or equipment required	• HIGH ◦ No known risk at AOPC	◦ No additional costs by implementation	Total: **$0**
Whole-AOPC Excavation	• HIGH ◦ No known risk at AOPC ◦ Background exceedances in soil are eliminated ◦ Background exceedances in groundwater within excavation area are eliminated ◦ Groundwater concentrations reduced outside excavation area	• DIFFICULT ◦ Moderate sized excavation ◦ Difficult to implement with buildings in place	• HIGH ◦ No known risk at AOPC ◦ Soil exceedances reduced to background ◦ Groundwater concentrations reduced within the excavation area	◦ Excavate and backfill 2,500 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 156,000 gallons of water as hazardous waste	Total: **$1,467,000** $252,000 $975,000 $240,000

Notes:
AOPC - Area of potential concern

Table 6-13
Summary of Detailed Feasibility Analysis for AOPC Southeast of Building 146
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• HIGH ◦ No known risk at AOPC	• READILY ◦ No material or equipment required	• HIGH ◦ No known risk at AOPC	◦ No additional costs by implementation	Total: **$0**
Whole-AOPC Excavation	• HIGH ◦ No known risk at AOPC ◦ Background exceedances in soil are eliminated ◦ Background exceedances in groundwater within excavation area are eliminated ◦ Groundwater concentrations reduced outside excavation area	• MODERATE ◦ Moderate sized excavation area	• HIGH ◦ No known risk at AOPC ◦ Soil exceedances reduced to background ◦ Groundwater concentrations reduced within the excavation area	◦ Excavate and backfill 37 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste ◦ Pump, transport, and dispose of 2,400 gallons of water as hazardous waste	Total: **$40,000** $20,000 $16,000 $4,000

Notes:
AOPC - Area of potential concern

Table 6-14
Summary of Detailed Feasibility Analysis for AOPC Building 120 West
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• HIGH ◦ No known risk at AOPC	• READILY ◦ No material or equipment required	• HIGH ◦ No known risk at AOPC	◦ No additional costs by implementation	Total: **$0**
Alternative Excavation	• HIGH ◦ No known risk or hazard at AOPC ◦ Background concentrations achieved	• MODERATE ◦ Small sized excavation area ◦ Excavation area located inside building	• HIGH ◦ No known risk or hazard at AOPC	◦ Excavate and backfill 20 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste	Total: **$27,000** $19,000 $8,000
Whole AOPC Excavation	• HIGH ◦ No known risk or hazard at AOPC ◦ Background concentrations achieved	• MODERATE ◦ Small sized excavation area ◦ Excavation area located inside building	• HIGH ◦ No known risk or hazard at AOPC	◦ Excavate and backfill 130 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste	Total: **$102,000** $48,100 $53,300

Notes:
AOPC - Area of potential concern

Table 6-15
Summary of Detailed Feasibility Analysis for AOPC Building 222/228
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• HIGH ◦ No known risk at AOPC	• READILY ◦ No material or equipment required	• HIGH ◦ No known risk at AOPC	◦ No additional costs by implementation	Total: **$0**
Alternative Excavation	• HIGH ◦ Background exceedances in soil are eliminated ◦ Background exceedances in groundwater within excavation area are eliminated	• MODERATE ◦ Small excavation area ◦ Easily achieved with regard to technology specific requirements	• HIGH ◦ No known risk at AOPC ◦ Soil exceedances reduced to background ◦ Groundwater concentrations reduced within the excavation area	◦ Excavate and Backfill 20 cubic yards of soil ◦ Transport and Dispose of soil as hazardous waste	Total: **$27,000** $19,000 $8,000
Whole-AOPC Excavation	• HIGH ◦ No known risk at AOPC ◦ Background exceedances in soil are eliminated ◦ Background exceedances in groundwater within excavation area are eliminated	• DIFFICULT ◦ Difficult to implement with buildings in place	• HIGH ◦ No known risk at AOPC ◦ Soil exceedances reduced to background	◦ Excavate and backfill 2,300 cubic yards of soil ◦ Transport and dispose of soil as hazardous waste	Total: **$1,185,000** $284,000 $901,000

Notes:
AOPC - Area of potential concern

Table 6-16
Summary of Detailed Feasibility Analysis for AOPC South of Building 121
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Technology	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost (Net Present Value)**
No Action	• HIGH ◦ No known risk at AOPC	• READILY ◦ No material or equipment required	• HIGH ◦ No known risk at AOPC	◦ No additional costs by implementation	Total: **$0**
Whole-AOPC Excavation	• HIGH ◦ No known risk or hazard at AOPC ◦ Background concentrations achieved	• MODERATE ◦ Small sized excavation area ◦ Highly sensitive utilities in area make excavation very risky	• HIGH ◦ No known risk or hazard at AOPC	◦ Approximately 20 cubic yards of soil to be removed; however most likely need to use method such as air knife for removal ◦ Possible soil disposal as hazardous waste	Total: **$87,000** $80,000 $7,000

Notes:
AOPC - Area of potential concern

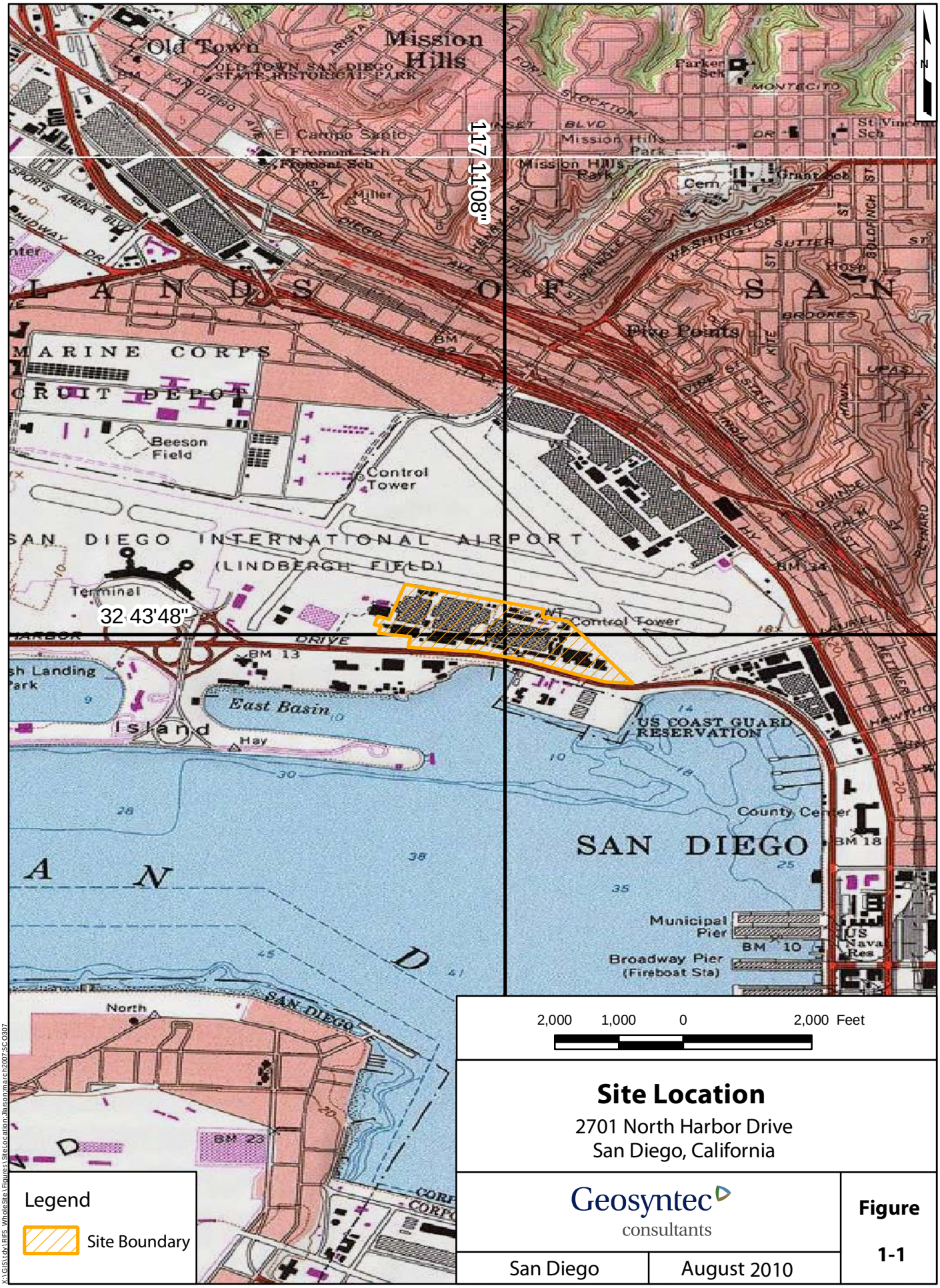
Table 7-1
Conceptual Remedial Action Plan
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

AOC/AOPC	Recommended Remedial Action
Building 131/242 - VOCs/SVOCs	• EISB for VOCs in groundwater • Targeted excavation for PCE in soil
Building 156 - VOCs/PCBs	• Targeted excavations for PCBs and VOCs in soil
Building 158 - Metals/VOCs	• Targeted excavation for potential LNAPL in soil • Targeted excavation or ISR-soil mixing with $FeSO_4$for CrVI in soil • ISR with EVO for CrVI in groundwater
Building 102 - VOCs/TPH	• Targeted excavation for VOCs in soil • Chemox/Biostimulation for TPH in saturated soil
Building 120 South - TPH	• Targeted excavation
Building 130/166 AST/120/121 - VOCs/SVOCs/Metals/PCBs	• EISB for VOCs in groundwater • Targeted Excavations for VOCs and PCBs in soil
Former Maintenance Yard - VOCs/Metals	• EISB for VOCs in groundwater • Targeted excavation for metals in soil
Building 180 - VOCs/TPH	• EISB for VOCs in groundwater • Targeted Excavation for TPH in soil
Explosives Area - PCBs	• Alternative excavation for PCBs in soil
Test Cell #4/Area D - TPH/VOCs	• To be determined based on soil gas evaluation/LNAPL
Building 142 - TPH/VOCs	• No action
Southeast of Building 146 - VOCs	• No action
Building 120 West - PCBs	• Alternative excavation for PCBs in soil
Building 222/228 - Metals/PCBs	• Alternative excavation for PCBs in soil
South of Building 121 - PCBs	• No action

Notes:
AOC - Area of concern
AOPC - Area of potential concern
CrVI - Hexavalent chromium
EISB - Enhanced in-situ bioremediation
$FeSO_4$ - Ferrous sulfate
ISR - In-situ reduction
MNA - Monitored natural attenuation
PCB - Polychlorinated biphenyls
PCE - Tetrachloroethene
SVOC - Semi-volatile organic compound
TPE - Two phase extraction
TPH - Total petroleum hydrocarbons

FIGURES



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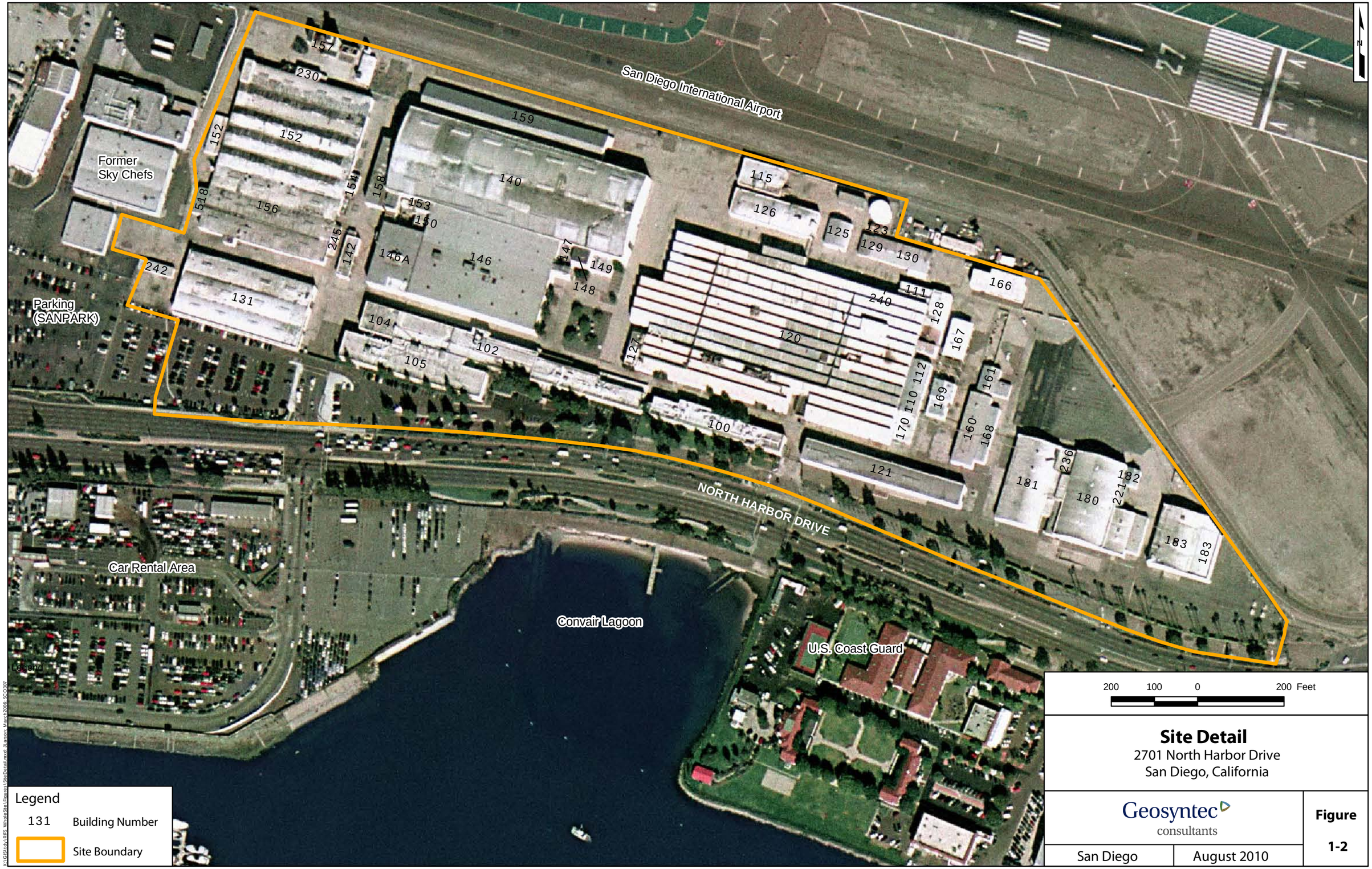
Site Location

2701 North Harbor Drive
San Diego, California

Geosyntec consultants

San Diego | August 2010

Figure 1-1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NORTH HARBOR DRIVE
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Parking (SANPARK)
Car Rental Area
Convair Lagoon
U.S. Coast Guard
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Site Detail
2701 North Harbor Drive
San Diego, California
Geosyntec consultants
San Diego
August 2010
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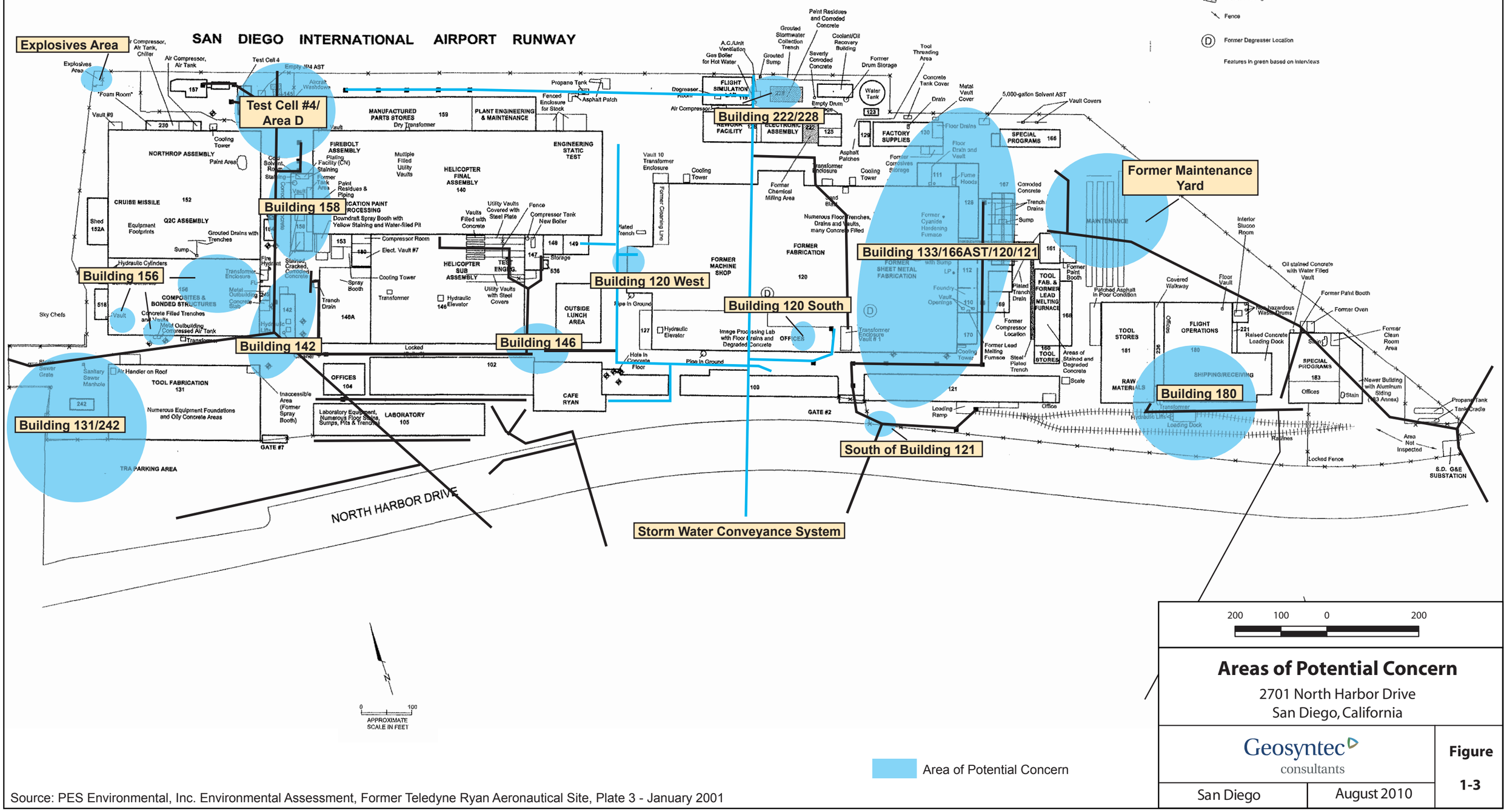
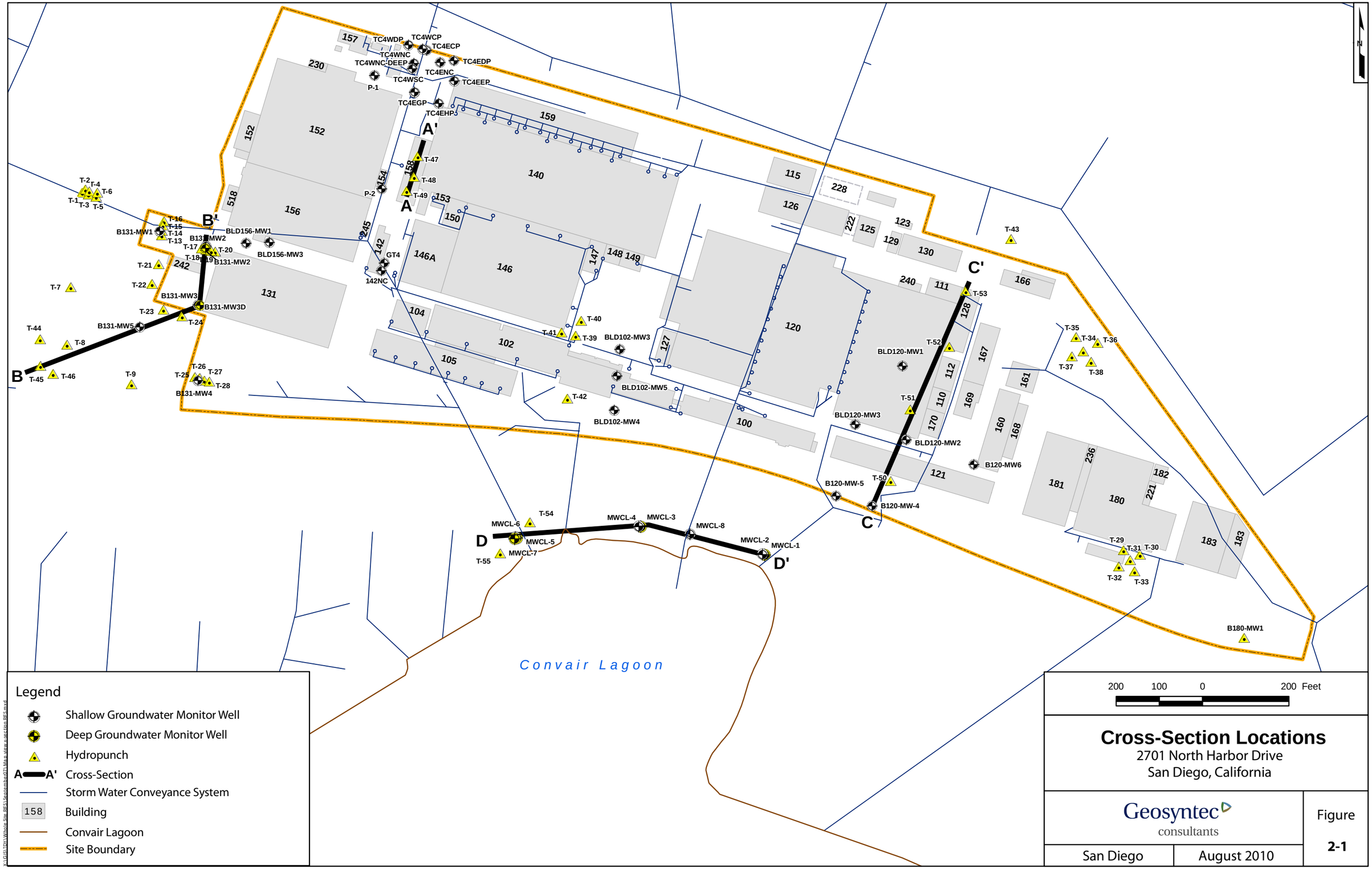


Source: PES Environmental, Inc. Environmental Assessment, Former Teledyne Ryan Aeronautical Site, Plate 3 - January 2001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T-48
T-49
T-50
T-51
T-52
T-53
T-54
T-55
B131-MW1
B131-MW2
B131-MW3
B131-MW3D
B131-MW4
B131-MW5
BLD156-MW1
BLD156-MW3
142NC
GT4
BLD102-MW3
BLD102-MW4
BLD102-MW5
BLD120-MW1
BLD120-MW2
BLD120-MW3
B120-MW-4
B120-MW-5
B120-MW6
B180-MW1
MWCL-1
MWCL-2
MWCL-3
MWCL-4
MWCL-5
MWCL-6
MWCL-7
MWCL-8
P-2
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Convair Lagoon
Legend
Shallow Groundwater Monitor Well
Deep Groundwater Monitor Well
Hydropunch
Cross-Section
Storm Water Conveyance System
Building
Convair Lagoon
Site Boundary
200 100 0 200 Feet
Cross-Section Locations
2701 North Harbor Drive
San Diego, California
Geosyntec consultants
San Diego
August 2010
Figure
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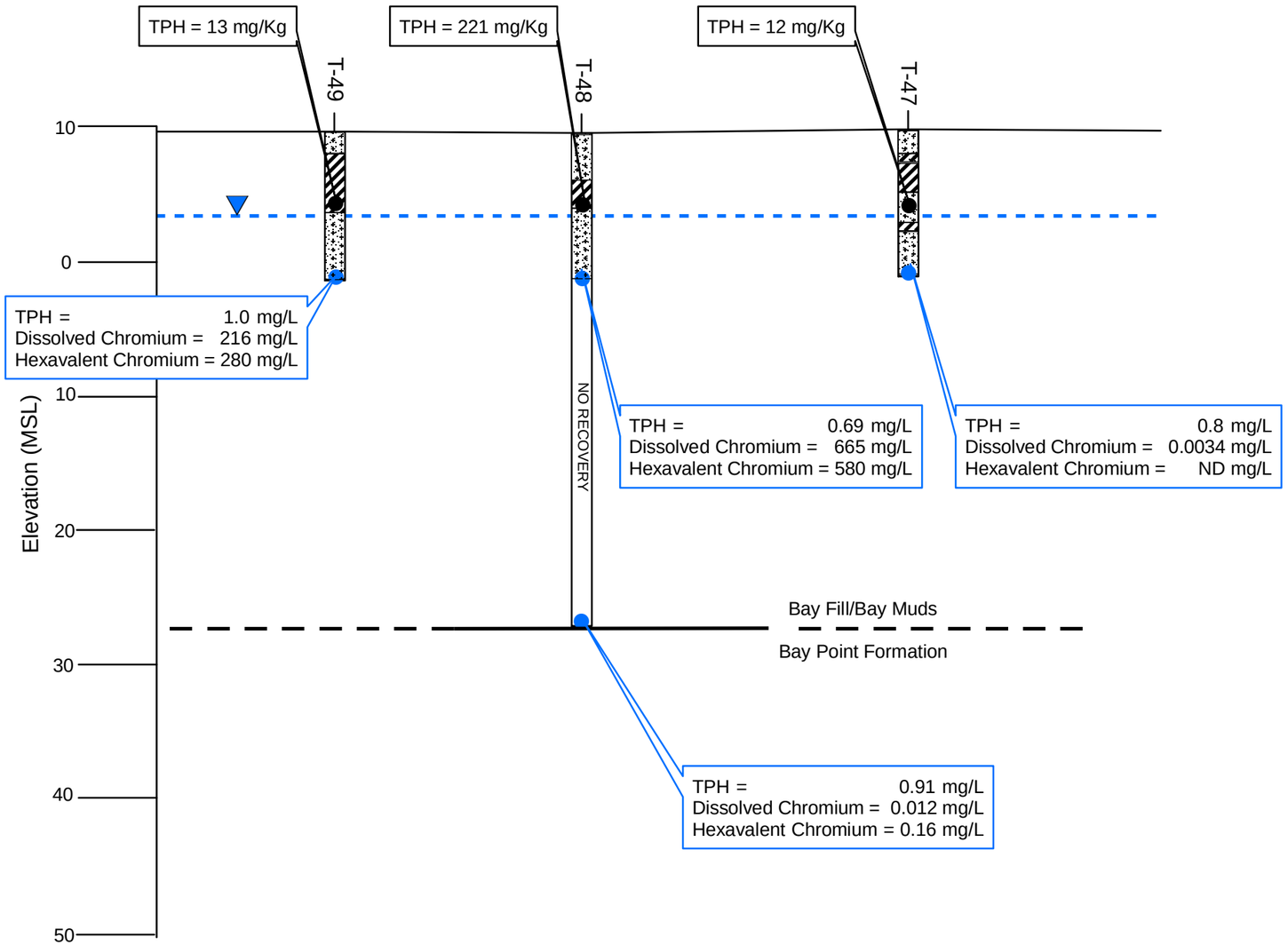

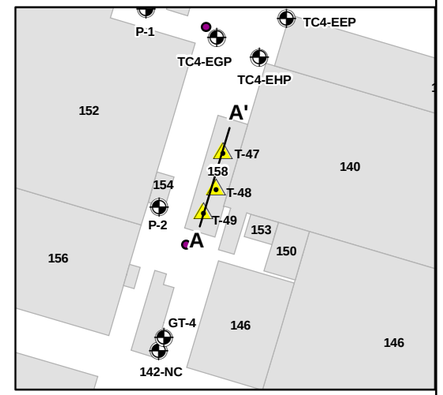

Legend

- Fine Sand/Silty Sand
- Clayey Sand (SC)
- Clay (CH)
- Soil Sample
- Groundwater Sample
- Lithologic Contact
- Groundwater Elevation

Samples collected 2nd quarter 2006-1st Quarter 2007 as shown on tables 3-1 through 3-6

20 10 0 20 Feet

Hydrogeologic Cross-Section A-A'
Building 156
2701 North Harbor Drive
San Diego, California

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San Diego | August 2010

Figure 2-2

X:\GIS\1dv\RFS_WholeSite\Figures\X section A-A.mxd:JJanson:12March2007:SCO307

B

B'

Bend in Cross-Section

T-45 T-8 B131-MW5 T-23 T-24 B131-MW3 B131-MW3D B131-MW2D B131-MW2

20
10
0
10
20
30
40
50

Elevation (MSL)

NO RECOVERY

1,4-Dioxane = 150 ug/L

PCE = ND<0.5 ug/L
TCE = ND<0.5 ug/L
cis-1,2-DCE = 0.7 ug/L
VC = ND<0.5 ug/L
1,4-Dioxane = 240 ug/L

PCE* = 24 ug/L
TCE* = 4.9 ug/L
cis-1,2-DCE* = 27,000 ug/L
VC* = 4,200 ug/L
1,4-Dioxane = 120 ug/L

PCE = ND<25 ug/L
TCE = ND<25 ug/L
cis-1,2-DCE = 83 ug/L
VC = 2,300 ug/L
1,4-Dioxane = 680 ug/L

PCE* = 28,000 ug/L
TCE* = 5,300 ug/L
cis-1,2-DCE* = 3,200 ug/L
VC* = 340 ug/L
1,4-Dioxane = 38 ug/L

1,4-Dioxane = ND<0.5 ug/L

Bay Fill/Bay Mud

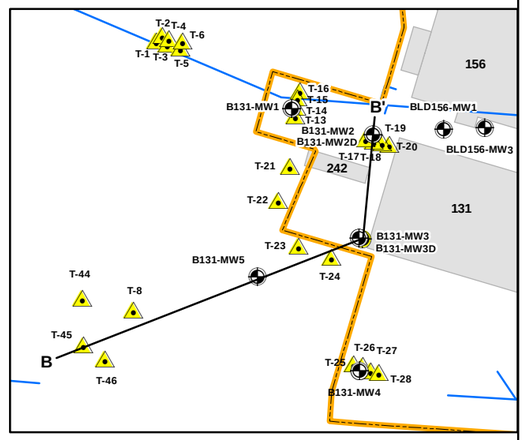
Bay Point Formation

PCE = 41,000 ug/L
TCE = 9,600 ug/L
cis-1,2-DCE = 15,000 ug/L
VC = 630 ug/L
1,4-Dioxane = 4.7 ug/L

PCE = 9,400 ug/L
TCE = 4,300 ug/L
cis-1,2-DCE = 11,000 ug/L
VC = 1,000 ug/L
1,4-Dioxane = 89 ug/L

PCE = 5.5 ug/L
TCE = 1.0 ug/L
cis-1,2-DCE = 1.3 ug/L
VC = 2.2 ug/L
1,4-Dioxane = ND<0.52 ug/L

PCE = 5.9 ug/L
TCE = 1.9 ug/L
cis-1,2-DCE = 10 ug/L
VC = 0.35 ug/L
1,4-Dioxane = ND<0.5 ug/L



Legend

- Gravel
- Fine Sand/Silty Sand
- Clayey Sand
- Clay
- Soil Sample
- Groundwater Sample
- Lithologic Contact
- Groundwater Elevation

* Data from 23 August 2007 sampling event; other samples collected 2nd quarter 2006-1st Quarter 2007 as shown on tables 3-1 through 3-6

80 40 0 80 Feet

Hydrogeologic Cross-Section B-B'
Building 131/242

2701 North Harbor Drive
San Diego, California

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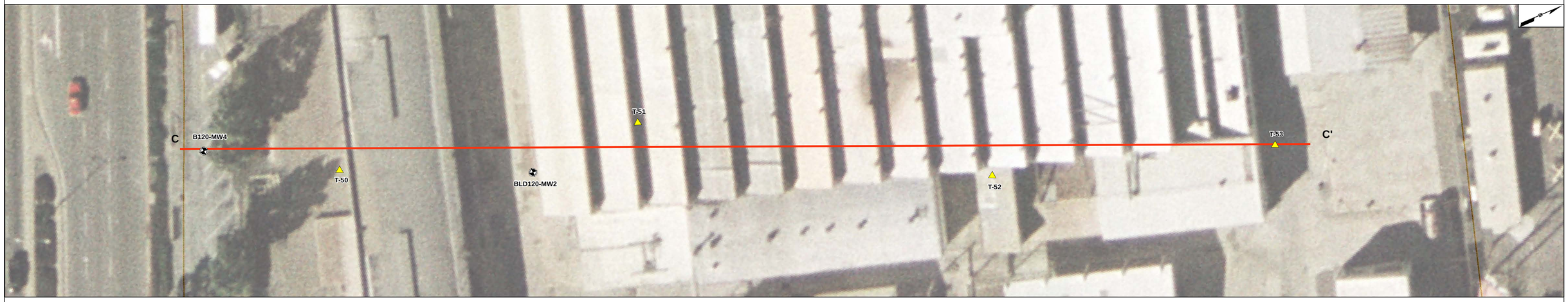
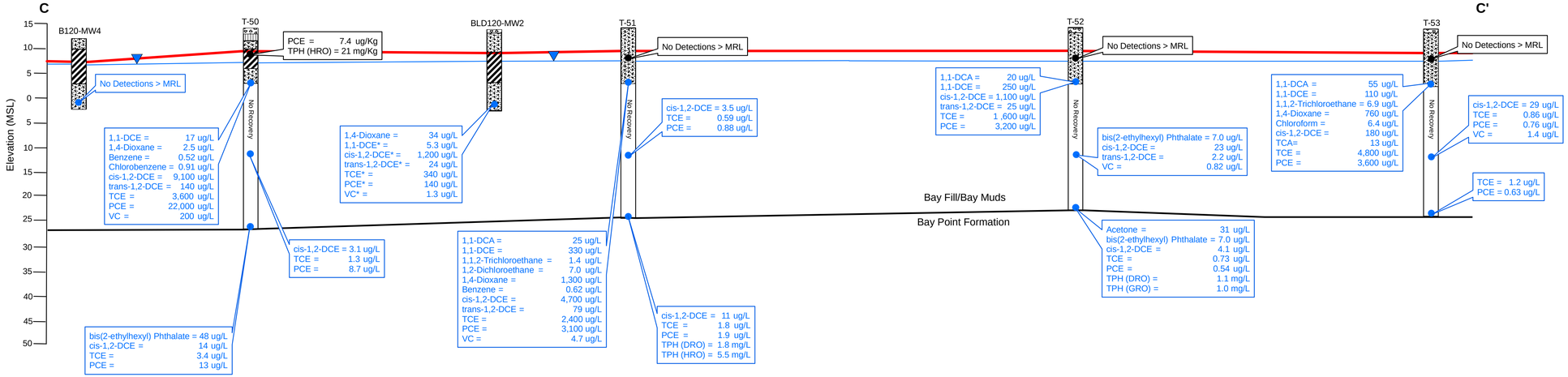
San Diego | August 2010

Figure 2-3





Legend

- Concrete
- Fine Sand/Silty Sand
- Silt
- Clay
- Property Boundary
- Lithologic Contact
- Groundwater Elevation
- Monitor Well
- Hydropunch
- Soil Sample
- Groundwater Sample

MRL - Method Reporting Limit
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
HRO - Heavy Range Organics
B120-MW-4 and BLD120-MW-2 sampled January 2007
T-50, T-51, T-52, and T-53 sampled October 2006
*Data from 21 August 2007 sampling event; other samples collected 2nd quarter 2006-1st Quarter 2007 as shown on tables 3-1 through 3-6

0 25 50 75 100 Feet

Hydrogeologic Cross-Section C-C'
Building 166/120/121

2701 North Harbor Drive
San Diego, California

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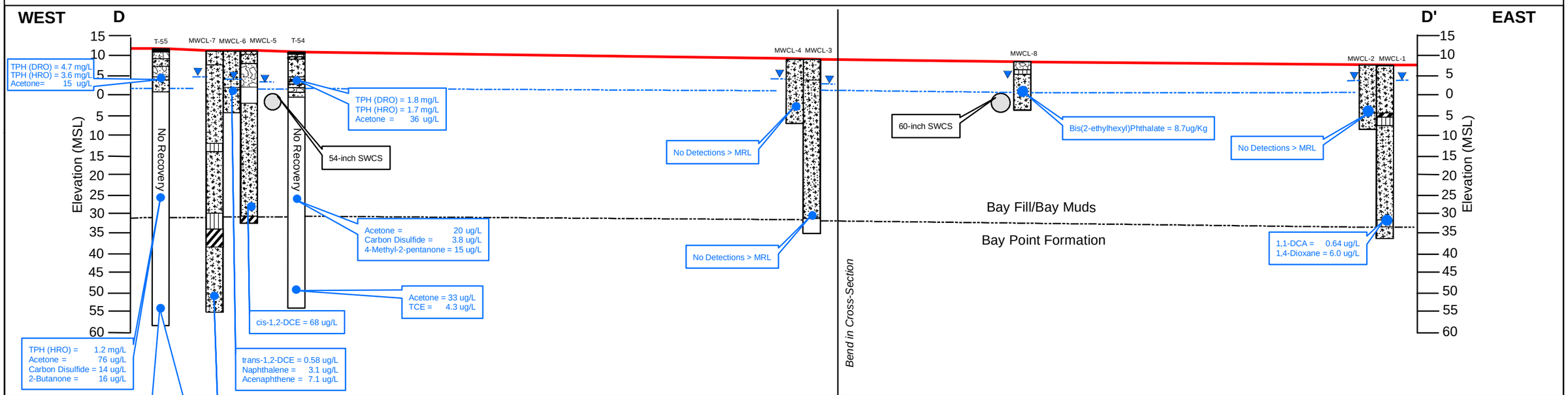
San Diego | August 2010

Figure 2-4

K:\SD\Sydney\SFS_Woodward\Mxds\2010\Cross\C-C'dwg\2010.mxd



Legend

- Asphalt
- Fill
- Concrete
- Gravel
- Fine Sand/Silty Sand
- Silt
- Clay
- Storm Water Conveyance System
- Lithologic Contact
- Groundwater Elevation
- Hydropunch
- Shallow Monitor Well
- Deep Monitor Well
- Groundwater Sample Depth

DRO - Diesel Range Organics
HRO - Heavy Range Organics
MRL - Method Reporting Limit
Samples collected 2nd quarter 2006-1st Quarter 2007 as shown on tables 3-1 through 3-6

50 25 0 50 Feet

Hydrogeologic Cross-Section D - D' - Convair Lagoon

2701 North Harbor Drive
San Diego, California

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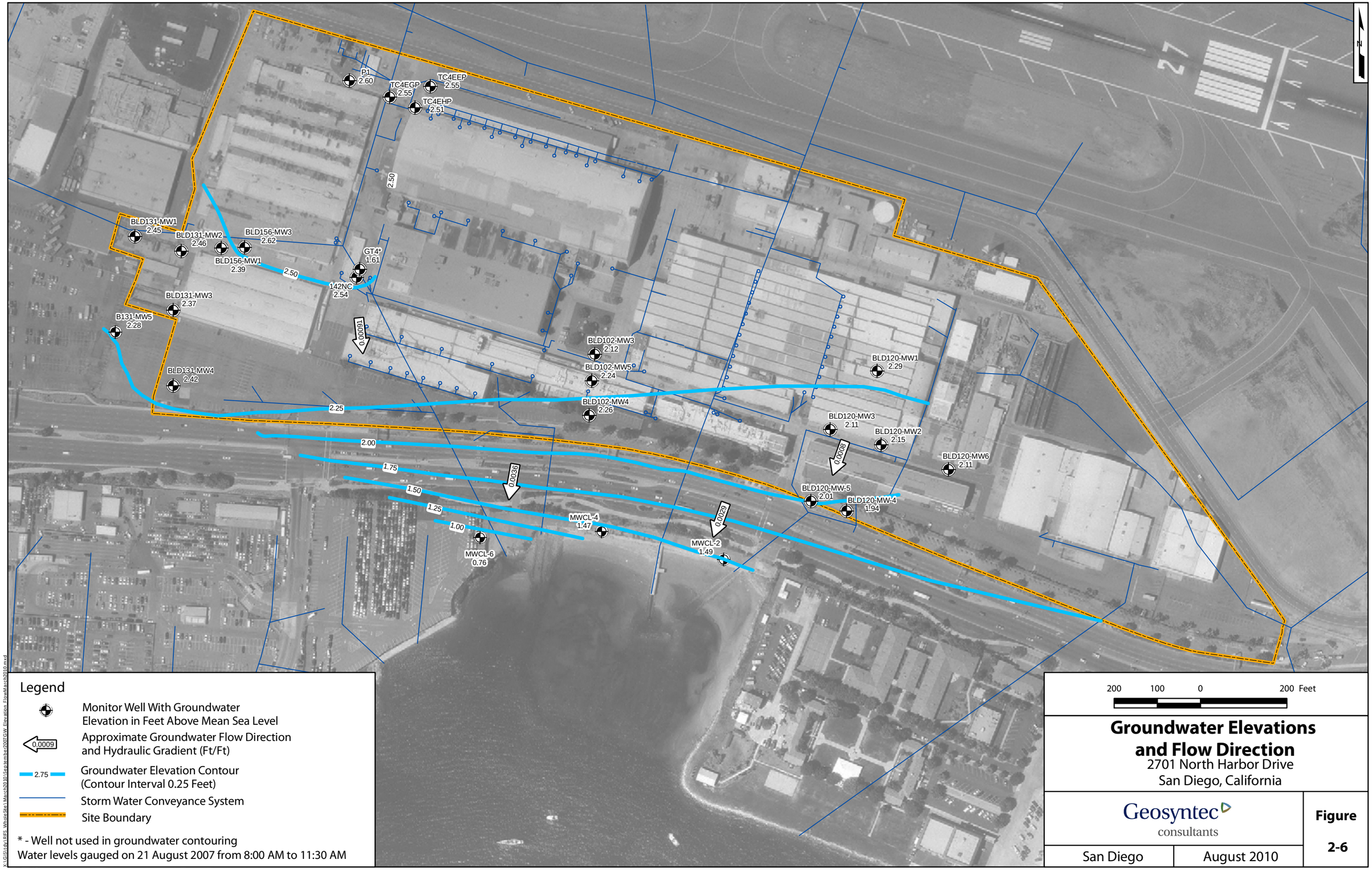
Figure 2-5

X:\GIS\TDY\Convair X-section.mxd



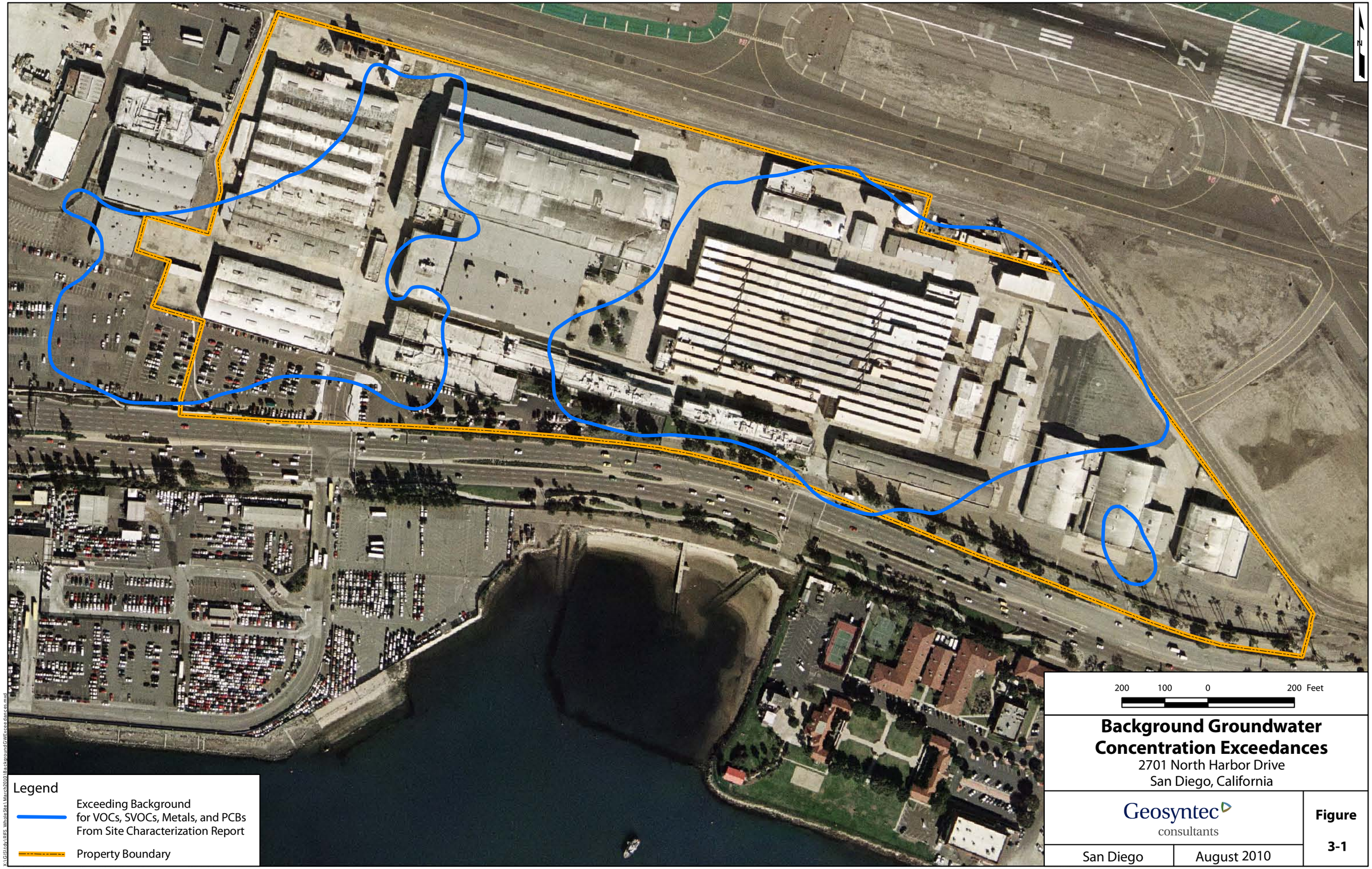
Groundwater Elevations and Flow Direction

2701 North Harbor Drive
San Diego, California

Geosyntec consultants

San Diego	August 2010	Figure 2-6

X:\GIS\1dv\RPS_Wholesale\March2010\September2007GW Elevation FlowMarch2010.mxd



Background Groundwater Concentration Exceedances

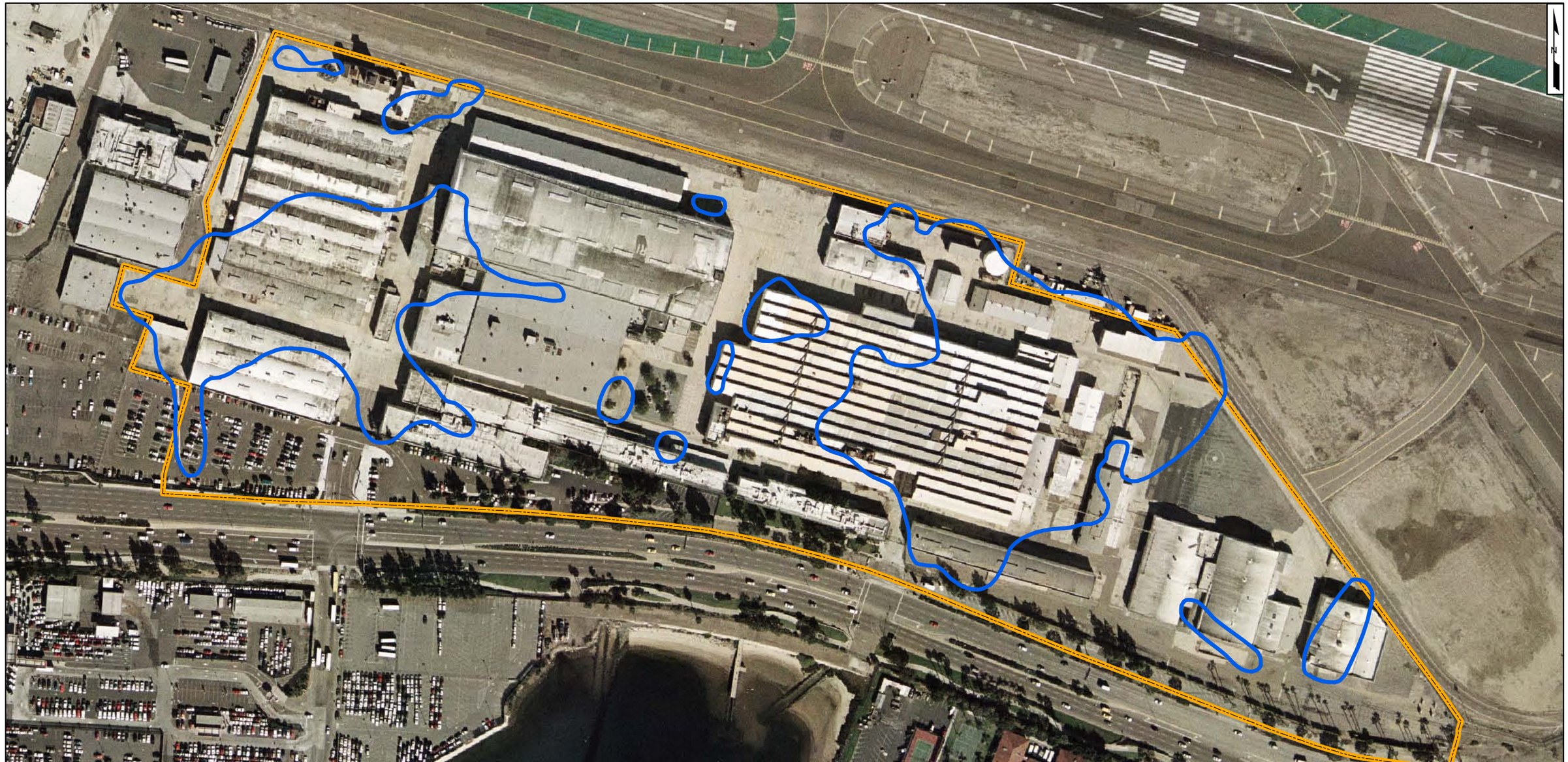
2701 North Harbor Drive
San Diego, California

Geosyntec consultants

San Diego | August 2010

Figure 3-1

X:\GIS\10dv\RFS_WholeSite\March2010\Background\GWExceedances.mxd



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Background Soil Concentration Exceedances

2701 North Harbor Drive
San Diego, California

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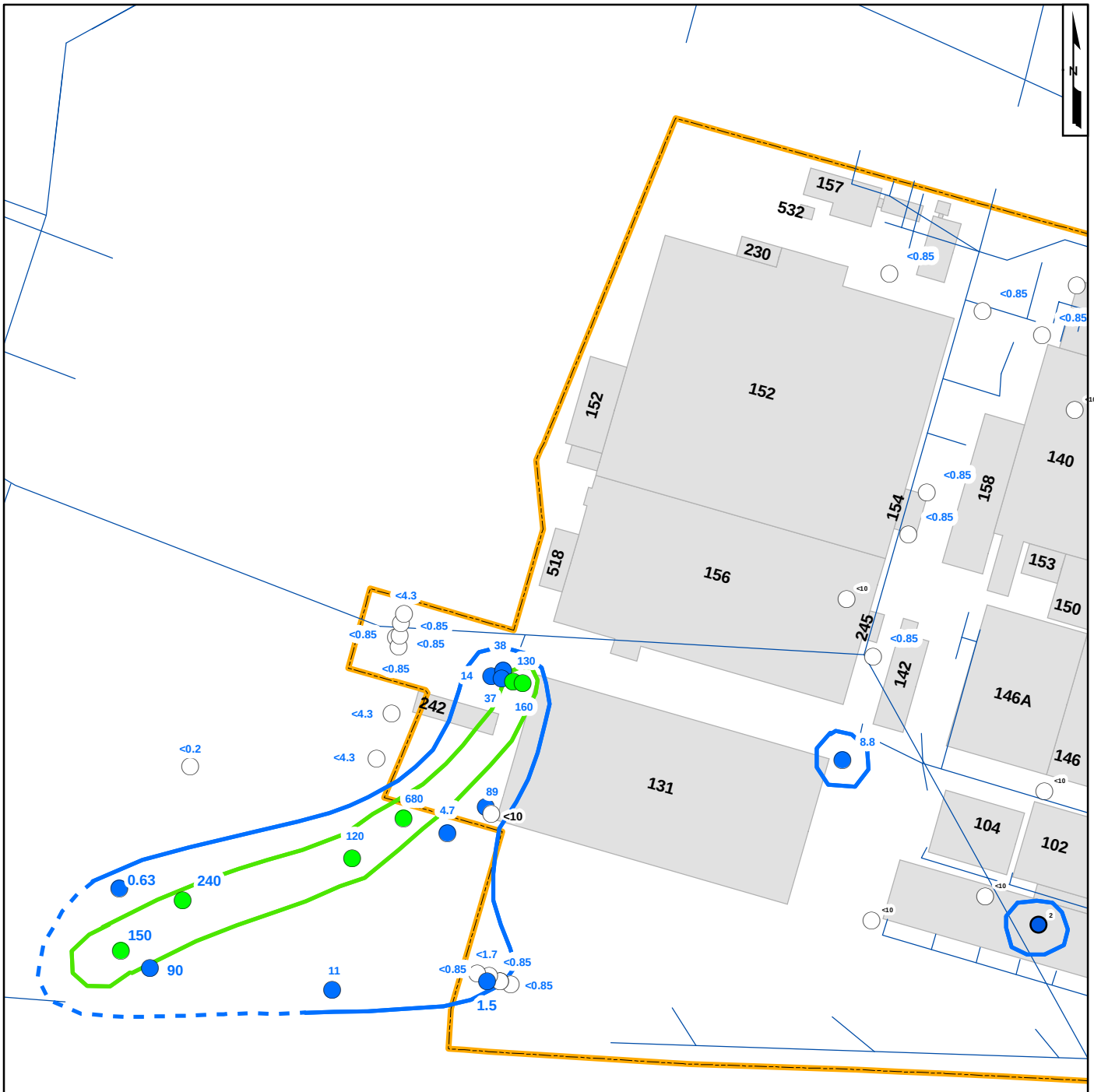
San Diego | August 2010

Figure 3-2



Samples collected 2nd quarter 2006-1st Quarter 2007 as shown on tables 3-1 through 3-6

Legend

1,4-Dioxane (ug/L)

- 1,000 - 10,000
- 100 - 1,000
- ND - 100
- ND

Concentration Isopleths

- 1,000
- 100
- ND
- Storm Water Conveyance System
- 158 Building
- Site Boundary

150 75 0 150 Feet

1,4-Dioxane Sample Results

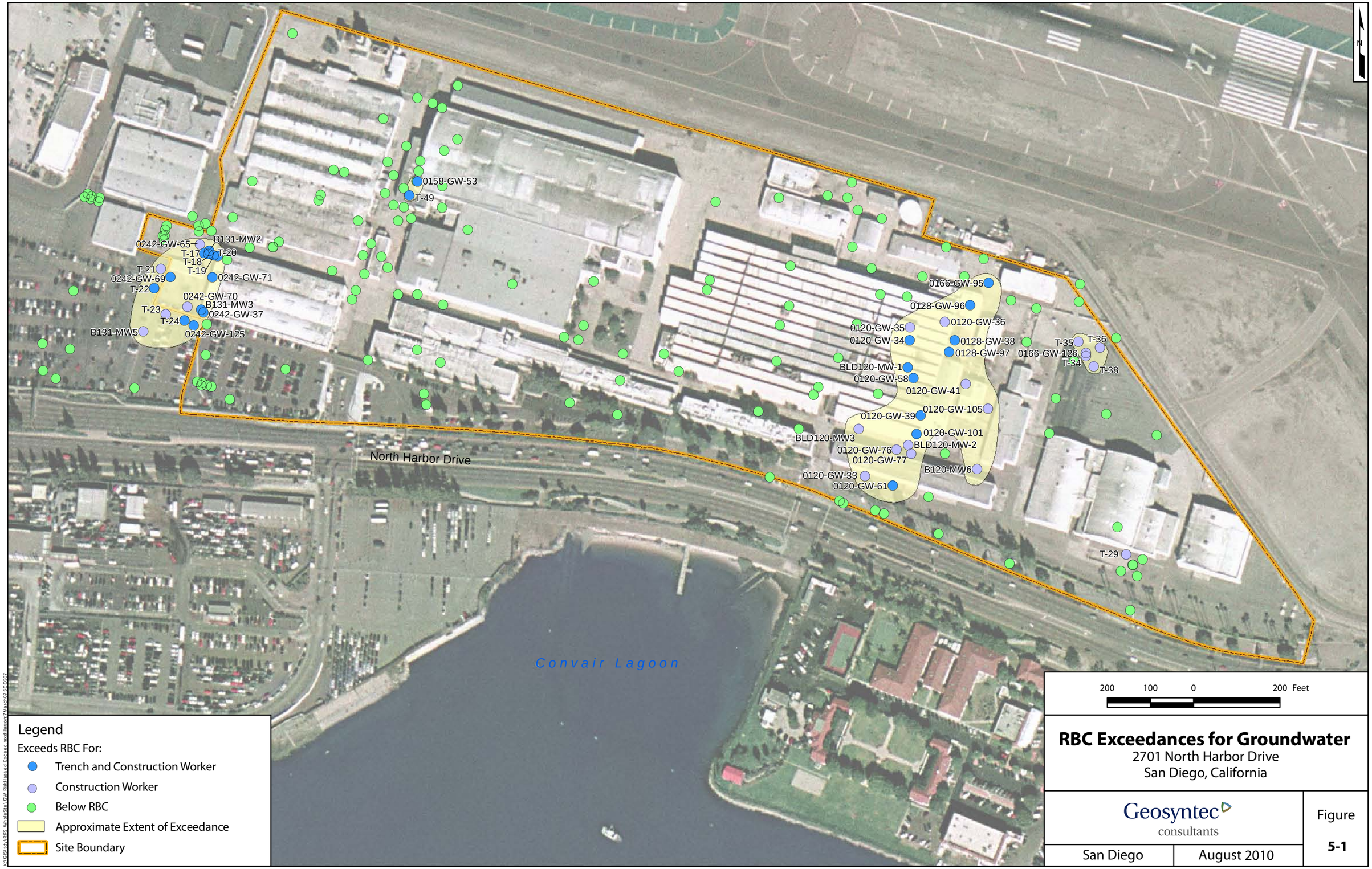
2701 North Harbor Drive
San Diego, California

Geosyntec consultants

San Diego | August 2010

Figure 4-1

X:\GIS\1dv\RFS_WholeSite\March2010\14DioxaneGWMarch2010.mxd



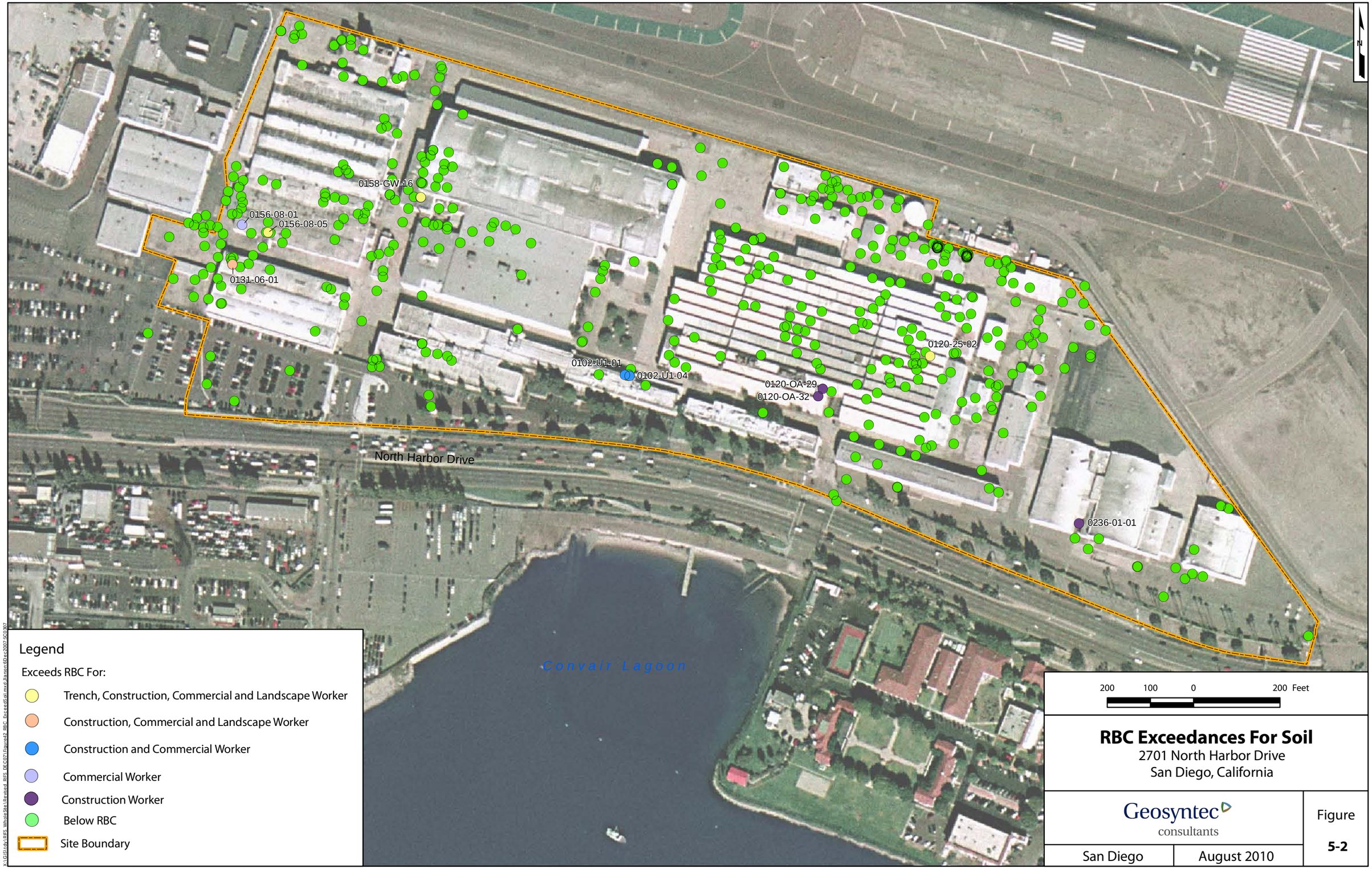
RBC Exceedances for Groundwater

2701 North Harbor Drive
San Diego, California

Geosyntec consultants

San Diego | August 2010

Figure 5-1



Legend

Exceeds RBC For:

- Trench, Construction, Commercial and Landscape Worker
- Construction, Commercial and Landscape Worker
- Construction and Commercial Worker
- Commercial Worker
- Construction Worker
- Below RBC
- Site Boundary

200 100 0 200 Feet

RBC Exceedances For Soil

2701 North Harbor Drive
San Diego, California

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San Diego | August 2010

Figure 5-2

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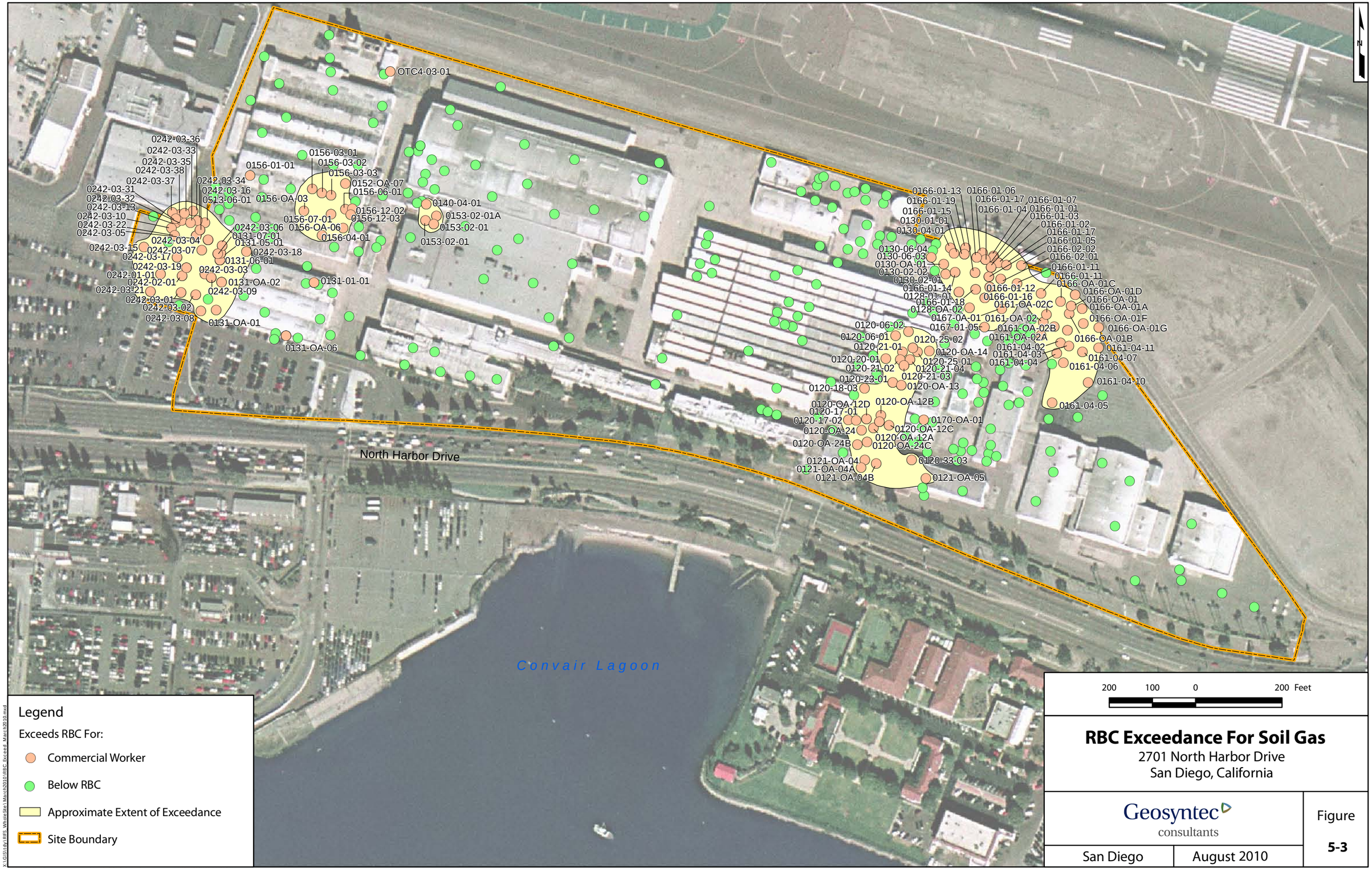
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0120-OA-24B
0120-OA-24C
0121-OA-04
0120-33-03
0121-OA-04A
0121-OA-04B
0121-OA-05
North Harbor Drive
Convair Lagoon
27
N
Legend
Exceeds RBC For:
Commercial Worker
Below RBC
Approximate Extent of Exceedance
Site Boundary
200 100 0 200 Feet
RBC Exceedance For Soil Gas
2701 North Harbor Drive
San Diego, California
Geosyntec consultants
San Diego
August 2010
Figure
5-3
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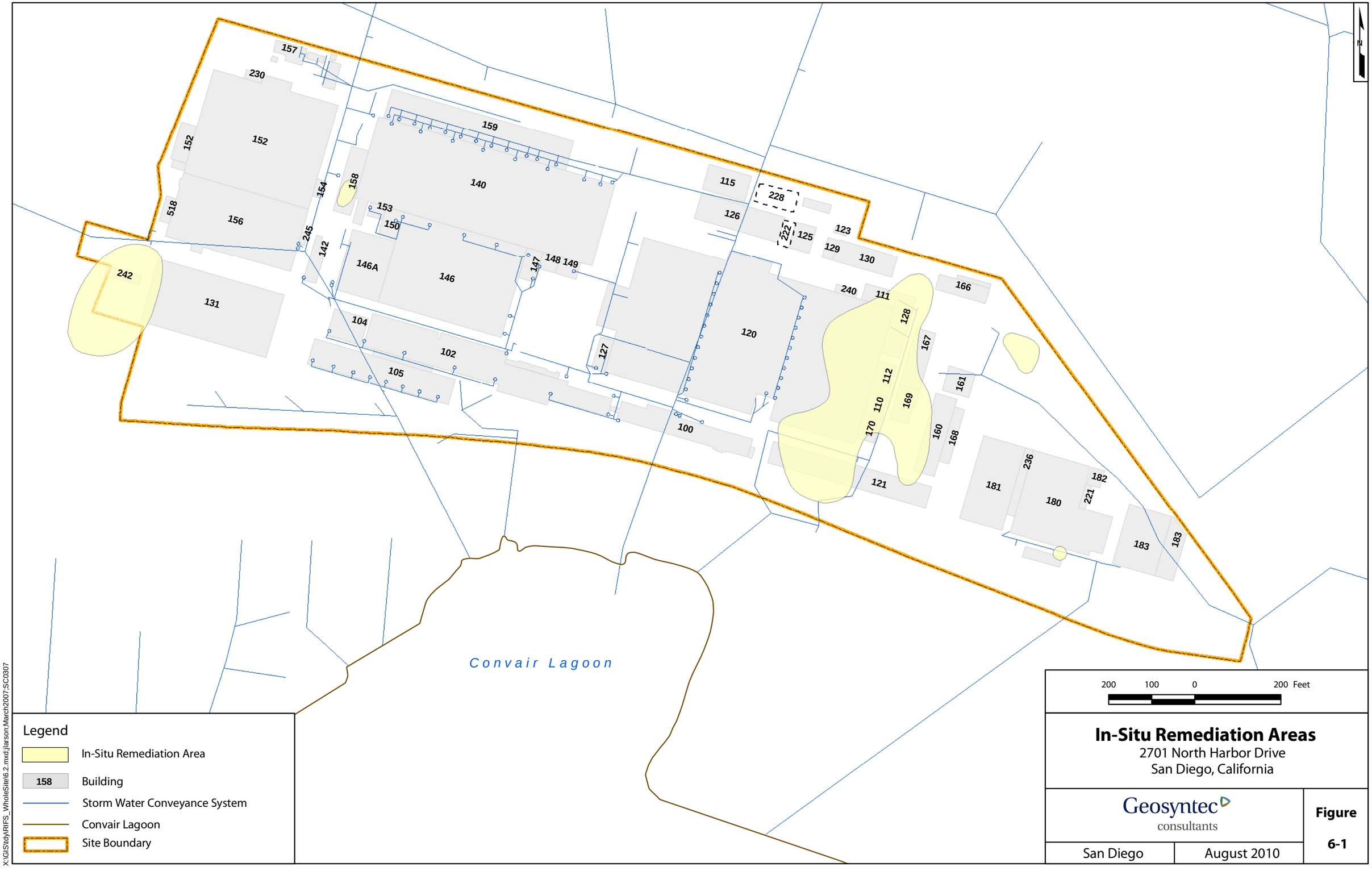
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Convair Lagoon
N
200 100 0 200 Feet
Legend
In-Situ Remediation Area
158 Building
Storm Water Conveyance System
Convair Lagoon
Site Boundary
In-Situ Remediation Areas
2701 North Harbor Drive
San Diego, California
Geosyntec consultants
San Diego
August 2010
Figure
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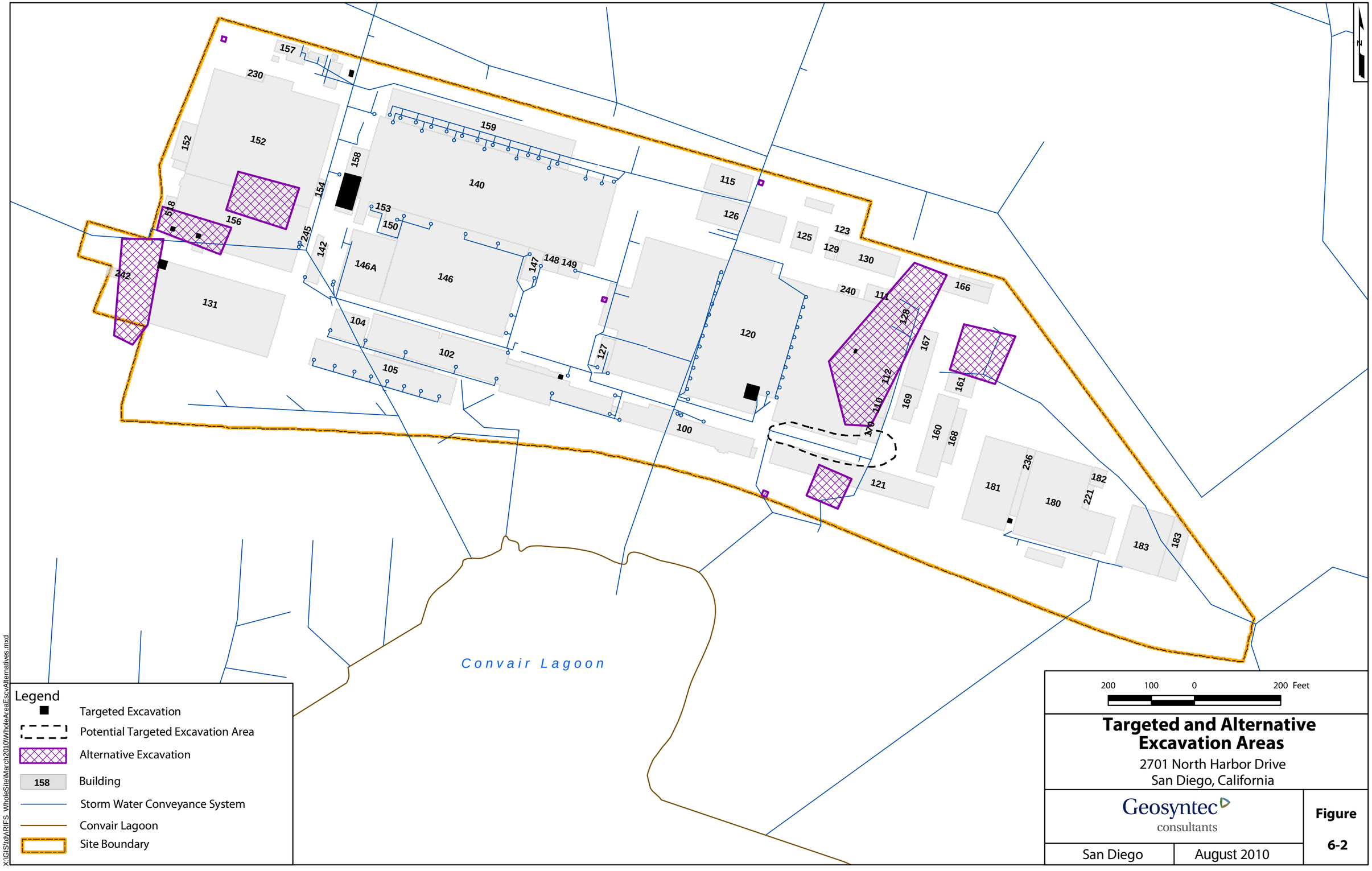


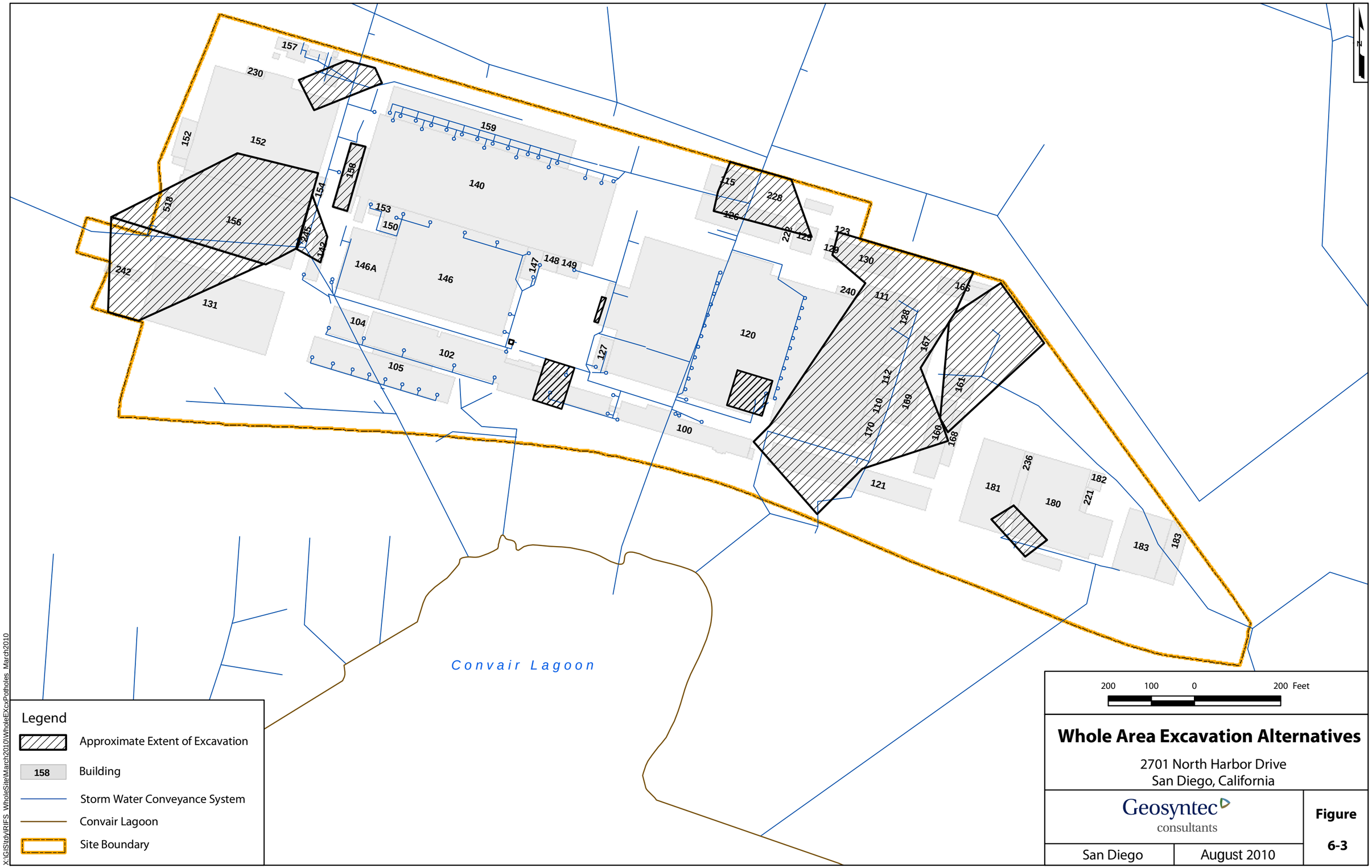
Targeted and Alternative Excavation Areas

2701 North Harbor Drive
San Diego, California

Geosyntec consultants

San Diego | August 2010

Figure 6-2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Convair Lagoon
Legend
Approximate Extent of Excavation
158
Building
Storm Water Conveyance System
Convair Lagoon
Site Boundary
200 100 0 200 Feet
Whole Area Excavation Alternatives
2701 North Harbor Drive
San Diego, California
Geosyntec consultants
San Diego
August 2010
Figure
6-3
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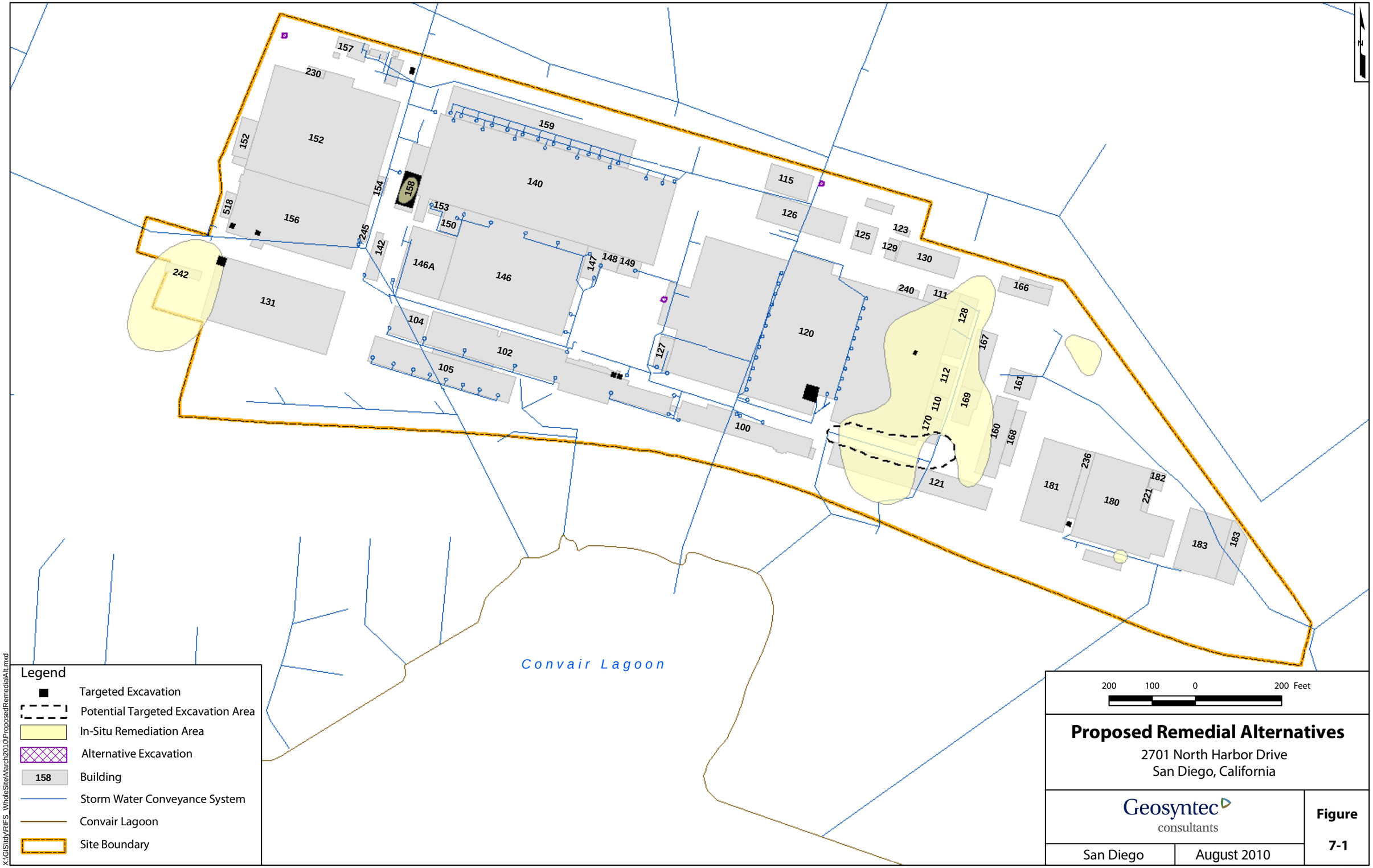
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Convair Lagoon
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Legend
Targeted Excavation
Potential Targeted Excavation Area
In-Situ Remediation Area
Alternative Excavation
158
Building
Storm Water Conveyance System
Convair Lagoon
Site Boundary
200 100 0 200 Feet
Proposed Remedial Alternatives
2701 North Harbor Drive
San Diego, California
Geosyntec consultants
San Diego
August 2010
Figure
7-1
X:\GIS\tdVRIFS_WholeSite\March2010\ProposedRemedialAlt.mxd

APPENDIX A

EVALUATION OF SWCS REMEDIAL ALTERNATIVES

Prepared for

TDY Industries, Inc., TDY Holdings, LLC,
and Teledyne Ryan Aeronautical Company
1000 Six PPG Place
Pittsburgh, Pennsylvania

RI/FS Appendix A

Feasibility Study of Remedial Alternatives for Off-Site Impacts

2701 North Harbor Drive
San Diego, California

Prepared by

Brian Hitchens, PG, CHG

Sam Williams, PG, CHG

Geosyntec consultants

engineers | scientists | innovators

10875 Rancho Bernardo Road, Suite 200
San Diego, California 92127
16 August 2010

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Table 2: Feasibility Analysis for AOC Convair Lagoon Vicinity Groundwater

1.0 INTRODUCTION

This feasibility study of the Convair Lagoon vicinity groundwater and the 60-inch storm water conveyance system (60-inch SWCS) remedial alternatives has been prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of TDY Industries, Inc. for the Airport/Former TRA site located at 2701 North Harbor Drive in San Diego, California (the Site). This Feasibility Study serves as Appendix A to the RI/FS for the Site, required by Cleanup and Abatement Order No. R9-2004-0258 (the CAO) issued by the San Diego Regional Water Quality Control Board (RWQCB, 2004).

This report has been prepared by Mr. Chris Lieder, PG, Ms. Jennifer Schwartz, PE, and Mr. Jim Cox. This report was reviewed by Mr. Brian Hitchens, PG, CHG and Mr. Sam Williams, PG, CHG in accordance with the peer review policy of the firm.

1.1 Background

In accordance with Directive D.3.b of the CAO, a feasibility study of potential remedial alternatives was conducted for each on-site Area of Concern (AOC) and Area of Potential Concern (AOPC). The CAO additionally requires the evaluation of potential offsite impacts to Convair Lagoon. In Appendix A to the Risk Assessment (Geosyntec, 2010), potential soil, sediment, and groundwater pathways were evaluated for the potential to impact Convair Lagoon. Site constituent concentrations were compared to applicable California Toxics Rule (CTR) standards.

The following pathways were evaluated in the Risk Assessment Appendix A (Geosyntec, 2010):

Groundwater/Seep:

- Migration of impacted groundwater in the shallow/deep interval from the Site to Convair Lagoon (discharge to surface water and/or pore water);
- Migration of impacted groundwater from the Site to the SWCS backfill material followed by discharge into Convair Lagoon; and
- Migration of impacted groundwater from the Site to the SWCS (i.e. seeps) followed by discharge into Convair Lagoon.

Soil/Sediment

- Migration of impacted soil/sediment from the surface of the Site to the SWCS followed by discharge into San Diego Bay;
- Migration of impacted storm drain backfill material to the SWCS followed by discharge into San Diego Bay; and
- Migration of impacted sediment currently within the SWCS followed by discharge into San Diego Bay.

From this analysis, two source/pathways were brought forward to this RIFS Appendix A for evaluation. These pathways are migration of existing sediment impacts within the 60-inch SWCS to Convair Lagoon and migration of impacted groundwater to Convair Lagoon.

The only other SWCS to remain on-site after demolition activities have been completed is the 54-inch SWCS. The 54-inch SWCS was evaluated in the Risk Assessment Appendix A (Geosyntec, 2010). Movement of existing sediment was not considered a significant pathway within the 54-inch SWCS, as no tributary socks on the 54-inch SWCS have contained sampleable volumes of sediment since the January 2006 storm drain cleanout and the SWCS has remained essentially free of sediment accumulation.

Groundwater samples indicate that compounds of concern (COC) concentrations are below CTR standards in the vicinity of the 54-inch and 60-inch SWCS. As an additional measure, seeps into the 54-inch SWCS were patched in July 2009. For these reasons the 54-inch SWCS is not evaluated further in this RI/FS Appendix A.

The Risk Assessment Appendix A also presented a quantitative evaluation of a potential maintenance worker exposure scenario in the 60-inch SWCS, with recommendations for worker notifications and personal protective equipment until the remediation is complete.

1.2 Remedial Investigation/Feasibility Study Objective

The objective of this RI/FS Appendix A is to present the feasibility study of potential remedial alternatives for off-site groundwater and existing impacted sediment within the SWCS. Recommendations for remedial action are also provided. This document has been prepared in accordance with Directives D.3.a and D.3.b of the CAO.

This feasibility study evaluates potential options for mitigation of these impacts on the basis of effectiveness, implementability, protection of human health and the environment, and cost.

1.3 Report Organization

The remainder of this report consists of the following

- Section 2, "*Feasibility Study*," presents the screened potential remedial alternatives for each AOC, and detailed evaluations of each;
- Section 3, "*Conceptual Remedial Action Plan*," presents the recommended action for each AOC, and a conceptual implementation plan; and
- Section 4, "*References*," lists the documents cited in this report.

2.0 FEASIBILITY STUDY

This feasibility study evaluates the effectiveness, implementability, protection of Convair Lagoon receptors, and cost of each alternative for the groundwater impacts in the vicinity of Convair Lagoon and the sediment impacts in the 60-inch SWCS.

A recommended remedial alternative is presented based on the findings of the feasibility study in accordance with Directive D.3.c of the CAO. This feasibility study consists of a detailed analysis of remedies considered potentially appropriate.

2.1 Detailed Feasibility Analysis

Each remedial alternative retained from the screening analysis was subjected to a detailed analysis against four criteria. These criteria are presented below.

Effectiveness

Effectiveness was evaluated based on the ability of each alternative to prevent off-site impacts in excess of CTRs or background, as appropriate.

Implementability

Implementability was evaluated based on the ability to construct and reliably operate each alternative. Specific factors evaluated were availability of equipment, material, and technical personnel; ability to meet technology-specific regulations until the remedial action is complete; and operation, maintenance, replacement, and monitoring of the remedial alternative components. Each remedial alternative was rated as readily implementable, moderately implementable, or difficult to implement based on the criteria above.

Overall Protection of Convair Lagoon Receptors

Remedial alternatives were evaluated with respect to their overall ability to be protective of Convair Lagoon receptors during remedy implementation and after remediation is completed. Specific factors considered were the anticipated time frame required to reduce risk or hazard and the protection of the general public, environmental receptors within the lagoon, and site workers during the remedial action. A longer time frame to achieve remedial goals was considered less protective overall than a shorter time frame.

Cost

An evaluation of both capital and recurring costs was performed. Recurring costs are post-construction costs necessary to ensure the continued effectiveness of a remedial action alternative. The result of the cost evaluation is presented numerically. These cost estimates are only an approximation based on the currently understood potential remedial systems designs.

2.2 Remedial Alternatives for the Existing Sediment Impacts within the 60-Inch SWCS

Remedial alternatives considered for possible application to 60-Inch SWCS impacted sediment are described below. The technology which was eliminated from consideration is presented first, followed by the retained technologies.

Screened Technology

SWCS Excavation and Replacement was screened and eliminated from the proposed options based on economic infeasibility. Trenchless remediation of the SWCS with technologies such as cast-in-place pipe re-lining offers a much more cost-effective alternative to excavation and replacement, with far less disruption than a major trenching operation across a key transportation corridor such as North Harbor Drive.

Retained Technologies

The following remedial alternatives were retained for further analysis for the SWCS sediment pathway:

- No Action;
- 60-Inch SWCS Discharge Channel Monitoring and Maintenance;
- 60-Inch SWCS Cleaning; and
- 60-Inch SWCS Cleaning and Lining.

These alternatives are described below along with a discussion of their effectiveness and technical and economic feasibility.

2.2.1 No Action

This alternative consists of performing no work now or in the future to attempt to mitigate existing conditions.

2.2.2 60-Inch Discharge Channel Monitoring and Maintenance

This alternative consists of ongoing monitoring and periodic removal of accumulated sediment in the engineered channel at the Convair Lagoon Outfall to the 60-inch SWCS.

2.2.3 60-Inch SWCS Cleanout

This alternative would be implemented after Site demolition activities have removed all tributaries to the 60-inch storm drain. This alternative consists of installing plugs in the 60-inch SWCS, dewatering the isolated SWCS section, and then removing sediment from the storm drain line through a combination of manual pressure washing, sweeping, shoveling, and high pressure jetting and high vacuum technology. Sediment within the storm drain outfall would be removed at low tide.

2.2.4 60-Inch SWCS Cleaning and Lining

This alternative consists of installing plugs in the 60-inch SWCS, dewatering the isolated SWCS section, and then removing sediment from the storm drain line through a combination of manual pressure washing, sweeping, shoveling, and high pressure jetting. A cured-in-place pipe (CIPP) would then be installed within the on-site portion of the 60-inch SWCS. The CIPP technology results in a seamless pipe throughout the lined section. Sediment within the storm drain discharge channel would be removed at low tide.

2.3 Remedial Alternative Evaluation

This section compares the specific criteria of effectiveness, implementability, overall protection of human and ecological health, and cost of each alternative.

The alternatives which are identified as technically feasible are subsequently evaluated on a basis of economic feasibility as described in State Water Resources Control Board Resolution 92-49, in which the incremental benefit of attaining further reductions in the concentration of constituents are compared with the incremental cost of achieving those reductions. Evaluated benefits include, current and planned future land use and social

or economic impacts to the surrounding community. Based on this combined technical and economic evaluation, a recommended remedial action is presented.

2.3.1 Alternative 1 – No Action

Effectiveness

The relative ability of this alternative to prevent PCB discharges from the 60-inch SWCS to Convair Lagoon is low. Although background concentrations may be achieved over time after the tributaries are removed, this alternative does not include long-term monitoring. Changes to constituent concentration or potential offsite migration would not be documented.

This alternative would be unlikely to achieve remedial objectives, based on constituent concentrations and site conditions.

Implementability

The No Action alternative is readily implementable with regard to the criteria as defined in Section 2.1.

Overall Protection of Convair Lagoon Receptors

The overall ability of No Action to be protective of Convair Lagoon receptors is low, because the discharge channel can be expected to fill over time, eventually reducing its efficacy. Because potential surface sources and tributaries will be removed during Site demolition, it is possible that background concentrations would be achieved over time. However, without a monitoring program, future site conditions would be unknown.

Cost

No costs would be expected by implementation of this alternative.

2.3.2 Alternative 2 – 60-Inch Discharge Channel Monitoring and Maintenance

Effectiveness

The relative ability of this alternative to mitigate PCB discharges from the 60-inch SWCS to Convair Lagoon is moderate. A monitoring and periodic sediment removal program would (1) provide ongoing data to evaluate remaining discharge channel

sediment capacity, and (2) clean out sediment from the discharge channel as necessary to maintain capacity within the channel.

Background concentrations could potentially be achieved over time as impacted sediment is removed from the discharge channel after upgradient sources (SWCS tributaries) are removed during the Site demolition process. As PCB concentrations decline within the 60-inch SWCS and discharge channel sediment, the total mass of PCBs removed per cleanout activity will decline. Because of the significant cost of discharge channel dredging operations (approximately $100,000 per event), ongoing routine sediment removal actions may become economically infeasible without direct source reduction activities within the SWCS.

This alternative is moderately likely to reach objectives, but may require ongoing monitoring and periodic removal of accumulated sediment over a long period of time, based on existing PCB concentrations within the 60-inch SWCS.

Implementability

Discharge Channel Monitoring and Maintenance is readily implementable with regard to the criteria as defined in Section 2.1.

Overall Protection of Convair Lagoon Receptors

The overall ability of Discharge Channel Monitoring and Maintenance to protect potential receptors in Convair Lagoon is moderate. There would be a monitoring program in place to ensure that the 60-inch SWCS discharge channel continues to have sufficient sediment capacity to mitigate the migration of impacted sediment to Convair Lagoon. The sediment removal program would remove potentially impacted sediment from the system during each cleanout event. However, this is a long term remedy which does not immediately address impacted sediment currently within the 60-inch SWCS. There will also be ongoing risk that a significant storm event may mobilize sediments from within the channel into Convair Lagoon.

Cost

There would be no upfront capital cost to implement Discharge Channel Monitoring and Maintenance but this remedial option could potentially result in moderate ongoing O&M costs. The approximate cost of implementing this remedial option is $728,000. O&M costs would primarily be associated with approximately triennial trough cleanout,

sample collection and analysis, and reporting. The estimated cost assumes that this area would be monitored and maintained for 15 years.

2.3.3 Alternative 3 – 60-Inch SWCS Cleanout

Effectiveness

The relative ability of this alternative to mitigate PCB discharges from the 60-inch SWCS to Convair Lagoon is high. Although very high cleanout performance can be achieved, small volumes of sediment potentially impacted with PCBs may be left behind.

Because all tributaries will be removed and all potential PCB sources related to on-Site structures will be removed during Site demolition, the potential for recontamination of sediment within the 60-inch SWCS from an on-Site source is low.

This alternative has a moderately high ability to achieve background concentrations in the discharges from the 60-inch SWCS to Convair Lagoon through the direct removal of sediment from the SWCS and the discharge channel.

Implementability

The 60-Inch SWCS Cleanout alternative is moderately implementable with regard to the criteria as defined in Section 2.1. Due to the intertidal elevation of the SWCS and the nature of the storm drain construction, cleanout is technically challenging.

Overall Protection of Convair Lagoon Receptors

The overall ability of 60-Inch SWCS Cleanout to mitigate PCB discharges from the 60-inch SWCS to Convair Lagoon is high. The completeness of the cleanout would be observed and documented with a cleanup goal of removal of all visible sediment. Because the cleanout would be performed after on-site source removal (i.e., after Site demolition activities), it is very likely that 60-inch SWCS Cleanout would mitigate Site-related PCB discharges from the 60-inch SWCS to Convair Lagoon.

Cost

The 60-Inch SWCS and Channel Cleanout Alternative has a high capital cost. The approximate cost of implementing this remedial option is $590,000.

2.3.4 Alternative 4 – 60-Inch SWCS Cleanout and Lining

Effectiveness

The relative ability of this alternative to mitigate PCB discharges from the 60-inch SWCS to Convair Lagoon is high. This alternative will be performed after all tributaries to the SWCS are removed during Site demolition. The liners in the 60-inch SWCS will completely isolate this portion of the SWCS from potential residual sediment or infiltration.

This alternative has a high likelihood of achieving background concentrations in the discharges from the 60-inch SWCS to Convair Lagoon. However, because there are no documented PCB impacts in soil or groundwater in the vicinity of the on-site portion of the 60-inch SWCS, the incremental benefit of installing the lining system cannot be quantified, but is estimated to be small.

Implementability

The 60-Inch SWCS Cleaning and Lining alternative is moderately implementable with regard to the criteria as defined in Section 2.1. Due to the intertidal elevation of the SWCS and the nature of the storm drain construction, cleaning and lining are technically challenging.

Overall Protection of Convair Lagoon Receptors

The overall ability of 60-Inch SWCS Cleanout and Lining to mitigate PCB discharges from the 60-inch SWCS to Convair Lagoon is high. Because the cleaning and lining would be performed after source removal (i.e., after Site demolition activities), it is very likely that these remedial actions would mitigate Site related PCB discharges from the 60-inch SWCS to Convair Lagoon. However, current Site data do not indicate residual PCB impacts either in storm drain backfill or groundwater adjacent to the SWCS. Based on these observations, this alternative is not significantly more protective than Alternative 3. As no known residual concentrations are addressed by this remedial action, residual concentrations are not anticipated to unreasonably affect present and

anticipated beneficial use of water, or result in water quality less than that prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Boards.

Cost

The 60-Inch SWCS Cleanout and Lining alternative has a high capital cost. The approximate cost of implementing this remedial option is $1,350,000.

2.3.5 Recommended Remedial Option

Alternative 1 – "No Action" is considered technically feasible. However, this alternative is not sufficiently protective of Convair Lagoon receptors given current sediment concentrations in the SWCS.

Alternative 2 - "60-Inch Discharge Channel Monitoring and Maintenance" could be protective of Convair Lagoon receptors. Existing data from the Convair Lagoon Sand Cap study (Geosyntec, 2008) and the WDR monitoring program (WSSI, 2008) indicate the Convair Lagoon Discharge Channel is capable of mitigating PCB impacts to the Convair Lagoon Cap. Monitoring and maintenance of this channel is a feasible alternative for mitigating PCB impacts from the 60-inch SWCS. However this alternative does not directly address PCBs existing within the SWCS system and may not be effective during large storm events with high storm water flow rates.

This remedial alternative is less protective and requires a much longer O&M timeframe (currently estimated at 15 years) than the direct removal or lining proposed in Alternatives 3 and 4. The total estimated costs are approximately $140,000 more than Alternative 3 and $572,000 less than Alternative 4. This alternative has a moderate likelihood of meeting the remedial objective of mitigating PCB discharges from the 60-inch SWCS to Convair Lagoon.

Although this alternative could be implemented until background conditions are met in the SWCS, this would require a long time frame to achieve. As PCB concentrations decline within the 60-inch SWCS and discharge channel sediment, the total mass of PCBs removed per cleanout activity will decline. Because of the significant cost of a discharge channel dredging operations (approximately $110,000 per event), the cost for the remedy could quickly exceed projected costs for Alternative 3, direct removal of the sediment within the discharge channel and 60-inch SWCS.

Alternative 3 - "60-Inch SWCS Cleanout" would mitigate potential impacts to Convair Lagoon by removal of impacted sediment within the SWCS, after the tributary system is removed and Site demolition is complete. Although this alternative involves significant capital expense, this alternative is estimated to be less costly and more effective overall than Alternative 2. The benefit of this Alternative over Alternative 2 is the removal of impacted sediment within the on-site portion of the 60-inch SWCS, resulting in immediate source reduction in the system, and reduced potential for future Convair Lagoon impacts.

Alternative 3 has a high likelihood of mitigating PCB discharges from the 60-inch SWCS to Convair Lagoon and also has the potential to achieve background concentrations through the direct removal of impacted sediment following site demolition. This alternative is estimated to be less expensive than Alternative 2; with the additional benefit of direct source removal.

Alternative 4 "60-Inch SWCS Cleanout and Lining" would mitigate potential impacts to Convair Lagoon by elimination of potential pathways from within the SWCS through lining of the system, after the tributary system is removed during Site demolition and all visible residual sediments are removed. Liner installation costs make this alternative roughly $782,000 more expensive than Alternative 2 and $920,000 more than Alternative 3. The incremental benefit of Alternative 4 over Alternative 3 is that the complete relining of the 60-inch SWCS system results in a physical barrier which would prevent soil or groundwater from seeping into the SWCS. However, as current Site data do not indicate the presence of PCBs or other COCs in soil or groundwater in the vicinity of the 60-inch SWCS, the incremental benefit of installing the lining system cannot be quantified, but is estimated to be small.

While Alternative 4 has a high likelihood of mitigating PCB discharges from the 60-inch SWCS to Convair Lagoon, this alternative is more than double the cost of Alternative 2 and nearly three times the cost of Alternative 3. Although there are potential benefits to installing a physical barrier within the line, it is likely that this engineered control would require maintenance over time, while providing no quantifiable benefit to the people of the State.

The recommended remedial alternative for this AOC is Alternative 3 "60-Inch SWCS Cleanout". Alternative 3 provides direct source removal of impacted sediment from the SWCS and Channel, with documentation that all visible sediment is removed. Alternative 3 provides effective source control consistent with maximum benefit to the

people of the State, does not unreasonably affect present or anticipated beneficial use of water, and does not result in water quality less than that prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Quality Control Boards.

2.4 Remedial Alternatives for Off-Site Groundwater Impacts

Remedial alternatives have been considered for possible application to off-Site groundwater with dissolved metals, VOCs, SVOCs, and potential PCB impacts in excess of the CTR and in excess of background concentrations. Although several metals and SVOCs have been detected sporadically or at laboratory estimated concentrations above the CTR in groundwater wells in the vicinity of Convair Lagoon, none of these constituents appear to be Site related. Ultra high resolution PCB congener analyses were performed on groundwater samples from all Convair Lagoon vicinity monitor wells. Trace detections of PCBs exceeding the CTR have been reported for every sample collected from both the shallow and deeper monitor wells. All of these results were reported as estimated concentrations between the laboratory reporting and detection limit. Trace detections of PCBs exceeding the CTR have also been reported for every associated laboratory Method Blank.

During a site-wide sampling event in January 2010, groundwater was analyzed for PCBs in all on-site groundwater monitor wells. PCBs were only detected in one well, B120-MW2, at a concentration of 19 ug/L (**Geosyntec, 2010**). All other wells, including three wells located downgradient of B120-MW2 (B120-MW4, -MW5, and -MW7), were non-detect with detection limits of approximately 0.005 ug/L. The B120-MW-4, -MW5, and –MW7 results demonstrate that the PCBs detected at B120-MW2 have not significantly migrated. Similar or lower concentrations of PCBs in groundwater elsewhere on-Site (e.g., those potentially resulting from PCBs in LNAPL at the Building 120 South AOC) are similarly not expected to migrate. Step-out borings were performed to delineate the extent of LNAPL, which appears to be limited to within approximately 20 feet of the excavation (within the footprint of Building 120). The maximum aqueous solubility of the PCB Aroclors commonly detected on-Site (Aroclor 1248, 1254, and 1260) range from 2.7 ug/L to 54 ug/L (EPA, 1980). Groundwater concentrations substantively greater than the 19 ug/L recently detected at B120-MW2 aren't likely based on these low aqueous solubilities and the relatively low concentrations of VOCs remaining in on-site groundwater. Therefore, the trace detections of PCBs observed in the Convair Lagoon vicinity groundwater samples are not believed to result from on-site impacts. The trace detections in these samples may

result from sample contamination or a low-level ambient source such as historical PCBs in the original San Diego Bay dredge-fill material used to reclaim the land in this area.

Groundwater modeling was performed and presented in the Risk Assessment, Appendix A (Geosyntec, 2010). This modeling evaluated the detections of PCBs in groundwater (regardless of their source) and their potential mobility to Convair Lagoon. The model results show that trace detections of PCBs in groundwater in the Convair Lagoon vicinity are not predicted to impact Convair Lagoon pore water or surface water at concentrations exceeding the CTR. Therefore this pathway is not considered significant. However, it was recommended that this pathway be further evaluated in the RI/FS.

The technology which was eliminated from consideration is presented first, followed by the retained technologies.

Screened Technology

Groundwater Pump and Treat - The overall ability of pump and treat to protect human health and the environment is low. Due to the saline nature of the groundwater in the vicinity of Convair Lagoon, the only treatment alternative capable of meeting NPDES standards for surface water discharge is reverse osmosis. The brine effluent from the RO treatment process would create a significant hazardous waste stream, which would need to be disposed. This process would result in a costly and energy intensive treatment process which would lead to a net increase in hazardous material which needs to be handled and properly disposed. While groundwater with COCs in excess of background would be prevented from reaching Convair Lagoon, the net risk to the environment would be increased.

Retained Technologies

The following remedial alternatives were retained for further analysis for the off-site groundwater migration to Convair Lagoon pathway.

- No Action;
- Groundwater Monitoring;

These alternatives are described below along with a discussion of their effectiveness and technical and economic feasibility.

2.4.1 No Action

This alternative consists of performing no work now or in the future to attempt to mitigate existing conditions.

2.4.2 Groundwater Monitoring

An analytical groundwater model has been prepared and is discussed in the Appendix A to the Risk Assessment which predicts that the trace concentrations of PCBs observed in groundwater in the vicinity of Convair Lagoon are unlikely to migrate to Convair Lagoon at concentrations that exceed the CTR. This alternative consists of ongoing monitoring to evaluate trends in PCB concentrations in groundwater to determine if changes in PCB concentration are occurring over time which may affect the modeled scenario. Ongoing groundwater monitoring would also evaluate concentration trends in other COCs previously detected above background.

2.5 Remedial Alternative Evaluation

This section compares the specific criteria of effectiveness, implementability, overall protection of human and ecological health, and cost of each alternative.

The alternatives which are identified as technically feasible are subsequently evaluated on a basis of economic feasibility as described in State Water Resources Control Board Resolution 92-49, in which the incremental benefit of attaining further reductions in the concentration of constituents is compared with the incremental cost of achieving those reductions. Evaluated benefits include current and planned future land use and social or economic impacts to the surrounding community. Based on this combined technical and economic evaluation, a recommended remedial action is presented.

2.5.1 Alternative 1 – No Action

Effectiveness

The relative ability of this alternative to meet CTR or background concentrations is moderate. Although the current modeling data indicates that trace PCB impacts currently observed in the Convair Lagoon vicinity are unlikely to reach Convair Lagoon at concentrations in excess of the CTR, no sampling would be performed to evaluate these modeled results. Changes to constituent concentration over time would not be documented.

Implementability

The No Action alternative is readily implementable with regard to the criteria as defined in Section 2.1.

Overall Protection of Human Health

The overall ability of No Action to be protective of Convair Lagoon receptors is moderate. Current site data indicate that trace PCBs in groundwater are unlikely to migrate to Convair Lagoon at concentrations in excess of the CTR and other potential COCs detected sporadically in Convair Lagoon monitor wells are either below CTR concentrations or are not believed to be Site related. However, the No Action alternative does not include groundwater monitoring. As a result, trends in COC concentrations will not be monitored over time.

Cost

No costs would be expected by implementation of this alternative.

2.5.2 Alternative 2 – Groundwater Monitoring

Effectiveness

The relative ability of this alternative to meet CTR or background concentrations is moderate. Current modeling data indicates that trace PCB impacts currently observed in the Convair Lagoon vicinity are unlikely to reach Convair Lagoon at concentrations in excess of the CTR. Groundwater monitoring would be performed to evaluate these modeled results and to monitor trends in other COCs to determine if these concentrations are changing over the long-term.

Implementability

Groundwater monitoring is readily implementable with regard to the criteria as defined in Section 2.1.

Overall Protection of Human Health

The overall ability of Groundwater Monitoring to protect potential receptors in Convair Lagoon is high. There would be a monitoring program in place to document that groundwater concentrations continue to be protective of potential receptors in and

around Convair Lagoon. The length of monitoring would be determined by the ability to establish trends in constituent concentration over time.

Cost

There would be no upfront capital cost to implement Groundwater Monitoring but this remedial option could potentially result in moderate ongoing O&M costs. The approximate cost of implementing this remedial option is approximately $400,000. O&M costs would primarily be associated with semiannual monitoring and reporting for 10 years.

2.5.3 Recommended Remedial Option

Alternative 1 – "No Action" is considered technically feasible. However, this alternative is not sufficiently protective of Convair Lagoon receptors.

Alternative 2 - "Groundwater Monitoring" would be protective of Convair Lagoon receptors, providing a monitoring network to document trends in COCs in Convair Lagoon vicinity groundwater which could validate modeling results and identify potential concerns if increasing COC trends are observed.

The recommended remedial alternative for this AOC is Alternative 2 "Groundwater Monitoring". Alternative 2 provides ongoing monitoring to confirm the existing monitoring and modeling data. Alternative 2 meets the remedial objective of documenting that CTR standards are met for Site-related COCs, with maximum benefit to the people of the state, does not unreasonably affect present or anticipated beneficial use of water and does not result in water quality less than that prescribed in the Water Quality Control Plans and Policies adopted by the State and Regional Water Quality Control Boards.

3.0 CONCEPTUAL REMEDIAL ACTION PLAN

The conceptual remedial action plan (RAP) for the 60-Inch SWCS Cleanout is presented below. The conceptual RAP is based on the results of the feasibility study presented in Section 2. Descriptions of the conceptual design of the recommended alternatives are provided herein. These conceptual designs form the basis for the cost-comparisons within this Appendix, but do not represent final engineered design recommendations.

3.1 60-inch SWCS Cleanout

All tributaries to the 60-inch SWCS will be removed by the Port during Site demolition activities prior to the initiation of clean-out activities on the 60-inch SWCS. During the cleanout of the 60-inch storm drains, a sandbag berm will be constructed at low tide at the upgradient property boundary. This berm will prevent base-flow water from upstream portions of the storm drain from entering the working area. Upstream accumulated water will be re-routed from behind the sandbag berm, through a filtered containment bin, to the nearest available storm water catch basin. The location of this catch basin will be determined based on post-demolition construction storm water management plans, when available.

After upstream water is diverted, a plug will be installed at the 60-inch SWCS outfall. The plug will be equipped with a water relief drain at its base. For efficiency in water management, the 60-inch storm water line may be divided into several work sections divided by sand bag berms. Based on previous cleanout experience, this provides for more efficient water management and better dewatering results. Before cleanout activities begin, water within the working area will be pumped down to the greatest possible extent, filtered through a dewatering bin to capture any potentially suspended sediment, and discharged to the nearest available storm water conveyance. After cleanout activities have commenced, all water within the work zone (from cleanout activities and groundwater seepage) will be pumped from the SWCS, passed through a dewatering bin, and stored in frac tanks for characterization and discharge to the sanitary sewer under a batch discharge permit.

Sediment in the 60-inch SWCS will be removed through a combination of pressure washing, jetting, manual removal, and high-vacuum technology. The roof, walls and joints of the 60-inch SWCS will be hand-cleaned by a pressure washing tip attached to a jetter-vac hose to wash adhered sediment to the floor of the SWCS. The base of the storm drain will then be cleaned by pressure washing any remaining sediment down the storm drain to the nearest catch basin. This will be accomplished first mechanically using a jetter tip, followed by a polishing step of hand pressure washing the base of the

SWCS to collect any remaining sediment. Accumulated sediment from the SWCS discharge channel will also be removed prior to removing the storm drain plug during a low tide. The valve in the plug will be opened and the water level within the drain will be allowed to equilibrate prior to removal of the plug.

3.2 Waste Storage and Disposal

The water and sediment from the removal activities will be placed into a dewatering bin for separation. Water will be pumped off to a holding tank for characterization and discharged to the sanitary sewer under a batch discharge permit. The sediment will be separately characterized and hauled off-Site for disposal. The accumulated water and sediment will be characterized to meet the requirements of the appropriate disposal facility. Sediment and water will be stored on site during characterization, per the right of entry (ROE) agreement between the Airport and Geosyntec.

3.3 Decontamination

All equipment in direct contact with material from the storm drains will be steam-cleaned prior to leaving the Site. Dewatering bins are certified clean by the company providing the equipment prior to entering the Site and the bin provider will certify that they will be appropriately cleaned before re-use.

3.4 Health and Safety

The Site Health and Safety Plan will be modified for the specific tasks required for the storm drain cleanout activities. Significant confined space entry will be required by the subcontractor during manual removal of sediment from the storm drain. The storm drain contractor will develop a fully protective confined space entry plan for all foreseeable activities related to the storm drain cleanout and all on-site personnel will be 40-hour HAZWOPER trained during the completion of this activity. Safety considerations include provisions for audio communication with the surface, real-time monitoring for hazardous breathing conditions, supplied air, 2-man (buddy system) entry, with appropriate emergency rescue and confined space attendants.

3.5 Confirmation of Cleanout

The effectiveness of the storm drain cleaning will be documented through photographic or video evidence. Photographs of each section of storm drain will be taken after cleanout has been completed. A final inspection of the SWCS will be performed to document that all visible sediment has been removed from the storm drain.

4.0 REFERENCES

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TABLES

Table 1
Feasibility Analysis for AOC 60-Inch SWCS
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Alternative	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost**
1. No Action	• LIMITED ◦ Minimal reduction in exposure	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	• LOW • No additional costs by implementation	Total: **$0**
2. 60-Inch Discharge Channel Monitoring and Maintenance	• MODERATE ◦ Contaminant Mass Reduced through Channel Cleanout ◦ Exposure is expected to be reduced over time	• READILY ◦ Limited material or equipment required ◦ Easily monitored and maintained until action is complete	• MODERATE ◦ Short-term controls to mitigate impacts to Convair Lagoon ◦ Potential for sediment impacts during large storm event ◦Long time frame to achieve WDR and background	• MODERATE ◦ Clean Channel every third year for 15 years ◦ Monitor and Sample Channel for 15 years	Total: **$518,000** $450,000 $68,000
3. 60-Inch SWCS Cleanout	• HIGH ◦ PCB impacted Sediments are Removed from SWCS ◦ Potential for residual impacts within SWCS	• MODERATE ◦ Material and equipment readily available ◦ Technically difficult to effectively implement cleaning due to SWCS location and configuration	• HIGH ◦ Sediment exposure eliminated in short time frame	• HIGH ◦ Clean sediment from 950 feet of 60-inch SWCS ◦ Clean sediment 160 feet of Outfall Channel	Total: **$555,000** $480,000 $75,000
4. 60-Inch SWCS Cleanout and Lining	• HIGH ◦ SWCS pathway is eliminated with physical barrier	• MODERATE ◦ Material and equipment readily available ◦ Technically difficult to effectively implement due to SWCS location and configuration ◦ Requires City of S.D. Approval	• HIGH ◦ Sediment exposure eliminated in short time frame	• HIGH ◦ Clean sediment from 950 feet of 60-inch SWCS ◦ Line 950-Feet of 60-Inch SWCS with CIPP ◦ Clean 160-Feet of Outfall Channel	Total: **$1,350,000** $480,000 $760,000 $75,000

Notes:
AOC - Area of concern
SWCS - Storm Water Conveyance System
CIPP - Cast In Place Pipe
WDR - Waste Discharge Requirement

Table 2
Feasibility Analysis for AOC Convair Lagoon Vicinity Groundwater
2701 North Harbor Drive, San Diego, California

Geosyntec consultants

Alternative	Criteria				
	Effectiveness	**Implementability**	**Overall Protection of Human Health**	**Cost Description**	**Cost**
1. No Action	MODERATE ◦ Existing low level CTR exceedances unlikely to be Site related	• READILY ◦ No material or equipment required	• LIMITED ◦ Minimal reduction in exposure	• LOW • No additional costs by implementation	Total: **$0**
2. Groundwater Monitoring	MODERATE ◦ Monitors Groundwater Concentrations Over Time	• READILY ◦ Limited material or equipment required	• HIGH ◦ Documents Groundwater conentration trends ◦ Provides opportunity to address trends in groundwater COC concentrations and to validate model results	• MODERATE ◦ Groundwater Monitoring and Reporting (10 Years)	Total: **$400,000** $400,000

CTR - California Toxics Rule
COC - Constituent of Concern

APPENDIX B

BORING LOGS, MONITOR WELL CONSTRUCTION DIAGRAMS, AND GROUNDWATER SAMPLE COLLECTION LOGS

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10875 Rancho Bernardo Rd, Suite 200
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PROJECT TDY
PROJECT LOCATION Harbor Drive
PROJECT NUMBER SC0307

KEY SHEET - CLASSIFICATIONS AND SYMBOLS

GS FORM: KEY 09/99

EMPIRICAL CORRELATIONS WITH STANDARD PENETRATION RESISTANCE N VALUES *

	N VALUE * (BLOWS/FT)	CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH (TONS/SQ FT)
FINE GRAINED SOILS	0 - 2	VERY SOFT	<0.25
	3 - 4	SOFT	0.25 - 0.50
	5 - 8	FIRM	0.50 - 1.00
	9 - 15	STIFF	1.00 - 2.00
	16 - 30	VERY STIFF	2.00 - 4.00
	31 - 50	HARD	>4.00
	>50	VERY HARD	

	N VALUE * (BLOWS/FT)	RELATIVE DENSITY
COARSE GRAINED SOILS	0 - 4	VERY LOOSE
	5 - 10	LOOSE
	11 - 30	MEDIUM DENSE
	31 - 50	DENSE
	>50	VERY DENSE

* ASTM D 1586; NUMBER OF BLOWS OF 140 POUND HAMMER FALLING 30 INCHES TO DRIVE A 2 IN. O.D., 1.4 IN. I.D. SAMPLER ONE FOOT.

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

MAJOR DIVISIONS			SYMBOLS	DESCRIPTIONS
COARSE GRAINED SOILS — MORE THAN 50% OF MATERIAL COARSER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS — MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	CLEAN GRAVELS — LITTLE OR NO FINES	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
			GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES — APPRECIABLE AMOUNT OF FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY SOILS — MORE THAN 50% OF COARSE FRACTION PASSING NO.4 SIEVE	CLEAN SANDS — LITTLE OR NO FINES	SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES — APPRECIABLE AMOUNT OF FINES	SM	SILTY SANDS, SAND-SILT MIXTURES
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS — MORE THAN 50% OF MATERIAL FINER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILT
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENT

NOTE: DUAL SYMBOLS USED FOR BORDERLINE CLASSIFICATIONS

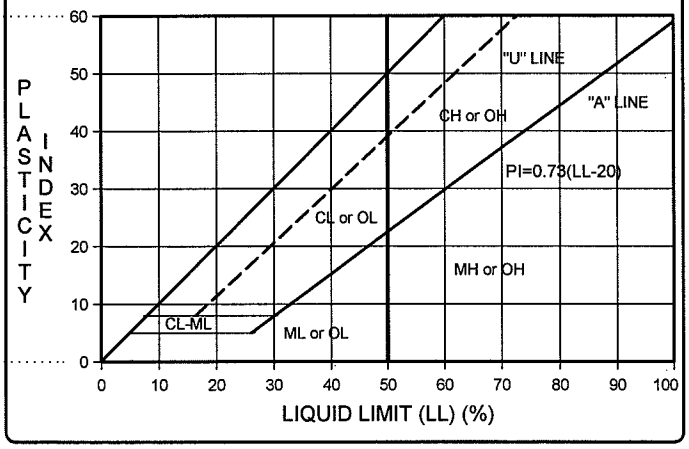
PARTICLE SIZE IDENTIFICATION

BOULDERS	>300 mm
COBBLES	75 - 300 mm
GRAVEL: COARSE	19.0 - 75 mm
GRAVEL: FINE	4.75 - 19 mm
SAND: COARSE	2.00 - 4.75 mm
SAND: MEDIUM	0.425 - 2.00 mm
SAND: FINE	0.075 - 0.425 mm
SILT	0.075 - 0.002 mm
CLAY	<0.002 mm

WELL GRADED - HAVING WIDE RANGE OF GRAIN SIZES AND APPRECIABLE AMOUNTS OF ALL INTERMEDIATE PARTICLE SIZES

POORLY GRADED - PREDOMINANTLY ONE GRAIN SIZE, OR HAVING A RANGE OF SIZES WITH SOME INTERMEDIATE SIZES MISSING

PLASTICITY CHART



OTHER MATERIAL SYMBOLS

- Siltstone
- Sandstone
- Siltstone/Claystone
- Claystone
- Shale
- Siltstone/Sandstone
- Conglomerate
- Granitic
- Sand
- Silt
- Silty Sand
- Evaporite
- Artificial Fill
- Debris Fill
- Asphalt
- Concrete

WELL SYMBOLS

- HYDRATED GRANULAR BENTONITE
- BENTONITE CEMENT GROUT
- FILTER PACK
- CONCRETE
- NATIVE/ SLOUGH
- CENTRAL-IZER

SAMPLER AND OTHER SYMBOLS

- BULK SAMPLE
- CORE SAMPLE
- GRAB SAMPLE
- HAND AUGER
- DRIVE SAMPLE
- GROUNDWATER SAMPLE

Water Level at Time Drilling, or as Shown

Static Water Level

MSL: Mean Sea Level

AGS: Above Ground Surface

BGS: Below Ground Surface

BTOC: Below Top of Casing

HSA: Hollow Stem Auger

KEY SC0307.GPJ GEOSNTEC.GDT 5/3/07

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Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: CORE3 10/00

BOREHOLE LOG

BORING MWCL-1 SHEET 1 OF 2
START DATE 14 Aug 06 Elevation FT. MSL
FINISH DATE 14 Aug 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION MATERIAL	SAMPLES NUMBER	SAMPLES TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS
1	Fine Sand (SW) with pebble clasts, olive brown [2.5 Y 4/4], moist. becomes dark grayish brown [2.5 Y 4/4], moist.	4.5 ft³ Concrete and Quickrete mix used for cover (vault) and surface seal							
5	becomes medium sand				7/13/10/11	87.5	1.8		
7					3/6/8/8	70.8			▽ Groundwater encountered at 6.74 ft bgs on 8/14/06.
9	becomes fine sand, black [2.5 Y 2.5/1]				4/8/10/12	70.8	0		5 gal water added
11					3/1/0/0	70.8	0		5 gal water added
12	Clay (CH) black [2.5Y 2.3/1], high plasticity.								
13	Silt (ML) black [2.5Y 2.5/1].				2/0/0/0	100			
15	Silty Sand (SM) black [2.5 Y 2.5/1].				0 push	50			
17					4/3/3/7	45.8			5 gal water added
19	Very Fine Sand (SW) black [2.5 Y 2.5/1], well graded.	10.2 ft³ Wyo-Ben bentonite grout mix			6/9/11/14	79.2	0		
21					3/5/5/11	54.2			
23					4/7/8/7	60.4	0		5 gal water added
25	becomes very dark gray [2.5Y 3/1]				4/4/6/6	50			5 gal water added
27					4/4/7/9	83.3			
29					5/6/9/10	62.5			5 gal water added
31	Fine Sand (SW) dark gray [2.5 Y 3/1], well graded.				4/5/5/10	62.5	0		5 gal water added
33					3/11/13/18				5 gal water added
34		0.4 ft³ Sinclair TR30							
35									

CONTRACTOR Tri-County
EQUIPMENT CME-75
DRILL MTHD Hollow-Stem
DIAMETER 8"
LOGGER R. Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 13 Oct 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 13/10/06

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GS FORM: CORE3 10/00

BOREHOLE LOG

BORING MWCL-1 SHEET 2 OF 2
START DATE 14 Aug 06 Elevation FT. MSL
FINISH DATE 14 Aug 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	TIME	COMMENTS
36	**Medium Sand (SP)** with shell hash, black [2.5Y 2.5/1], poorly graded.			bentonite pellets				3/4/7/11				5 gal water added
37								8/10/11/18		0		
38												
39								3/5/8/10				
40	**Silt (ML)** with mottled coloration, dark gray [2.5Y 4/1] to dark olive [2.5Y 3/3], contact with Bay Point Silt at 40.25' bgs.											
41				2.2 ft³ Lapis Lustre RMC #3 sand								
42	**Medium to Fine Sand (SP)** black [2.5Y 3/1], poorly graded.			2", 0.010" slotted schedule 40 PVC								Most likely fall in from borehole/auger.
	Total Depth 43.5 ft bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR Tri-County
EQUIPMENT CME-75
DRILL MTHD Hollow-Stem
DIAMETER 8"
LOGGER R. Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING -----
PRINTED 13 Oct 06

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BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 13/10/06

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GS FORM: CORE3 10/00

BOREHOLE LOG

BORING MWCL-2 SHEET 1 OF 1
START DATE 15 Aug 06 Elevation FT. MSL
FINISH DATE 15 Aug 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	TIME	COMMENTS
1	Fine Sand (SW) with pebble-size clasts, olive brown [2.5Y 4/4], moist. with shell hash, dark grayish brown [2.5Y 4/2].			4.5 ft³ Concrete and Quickrete mix used for cover (vault) and surface seal								
2												
3												
4				0.3 ft³ Wyo-Ben bentonite chips								
5	becomes fine to medium sand							6/8/9/9	82.3			
6										0		
7												
8												
9												
10	Fine Sand with Silt (SM) with shell hash, black [2.5Y 2.5/1].			4 ft³ Lapis Lustre RMC #3 Sand				4/7/6/4	87.5	0		5 gal water added
				2", 0.010" Slotted schedule 40 PVC								
	Total Depth 16 ft bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR Tri-County
EQUIPMENT CME-75
DRILL MTHD Hollow-Stem
DIAMETER 8"
LOGGER R. Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 13 Oct 06

REMARKS:

COORDINATE SYSTEM:
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BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 13/10/06

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GS FORM: CORE3 10/00

BOREHOLE LOG

BORING MWCL-3 SHEET 1 OF 2
START DATE 15 Aug 06 Elevation FT. MSL
FINISH DATE 16 Aug 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION MATERIAL	SAMPLES NUMBER	SAMPLES TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS
1	Silty Sand (SM), olive brown [2.5Y 4/4]	4.5 ft³ Concrete and Quickrete mix used for cover (vault) and surface seal							
2	Fine Sand (SP), dark grayish brown [2.5Y 4/2], moist.								
3									
4									
5	Fine to Medium Sand (SW), very dark grayish brown [2.5Y 3/2].				6/8/11/12	93.75			
6									
7					7/6/4/3	88.5			
8							0		
9	increasing shell hash becomes black [2.5 Y 2.5/1], wet				1/1/3/6	85.4			
10									
11					2/4/1/0	43.75			
12	increasing fine grain sand								
13	Silty Sand (SM), black [2.5Y 2.5/1], wet.				0/0/1/1	62.5			▽ Groundwater encountered at 13.5 ft bgs on 8/15/06.
14									
15					0/0/1/1	100			
16							0		
17	poorly graded				1/1/4/5	70.8			
18		0.7 ft³ Wyo-Ben Bentonite Grout							
19					0/0/4/6	100	0		
20	increasing shell hash								
21	Fine to Medium Sand with shell hash, black [2.5Y 2.5/1].				2/3/0/2	92.7			
22									
23					0/4/2/4	79.2			10 gal water added
24							0		
25	Silty Sand (SM), black [5Y 2.5/1].				4/6/9/3	64.6			
26									
27					4/7/5/6	53.1			5 gal water added
28							0		
29					0/3//5/6	69.8			
30	with shell hash						0		30-35 ft resampled with 5 foot continuous core Sample method changed to 5 foot continuous core due to equipment change. 2 foot samples
31					2/4/6/6	83.3			
32									
33						89.5			
34		10.7 ft³ Sinclair							
35									

CONTRACTOR Tri-County
EQUIPMENT CME-75
DRILL MTHD Hollow-Stem
DIAMETER 8"
LOGGER R. Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 13 Oct 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 13/10/06

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GS FORM: CORE3 10/00

BOREHOLE LOG

BORING **MWCL-3** SHEET **2 OF 2**
START DATE **15 Aug 06** Elevation **FT. MSL**
FINISH DATE **16 Aug 06**
PROJECT **TDY**
LOCATION **Harbor Drive**
PROJECT NUMBER **SC0307**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	TIME	COMMENTS
36				TR30 Bentonite Pellets					54.2			taken to prevent drop out of sample from tube.
37									37.5			
38												
39	Fine Sand (SP) with shell hash, olive brown [2.5Y 4/4].			2.3 ft³ Lapis Lustre RMC #3 Sand								
40	No Recovery								0			
41				2", 0.010" slotted schedule 40 PVC					0			
42												
43	Total Depth = 43.5 ft bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR **Tri-County**
EQUIPMENT **CME-75**
DRILL MTHD **Hollow-Stem**
DIAMETER **8"**
LOGGER **R. Gray** REVIEWER

NORTHING
EASTING
ANGLE **Vertical**
BEARING **-----**
PRINTED **13 Oct 06**

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG WWELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 13/10/06

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GS FORM: CORE3 10/00

BOREHOLE LOG

BORING MWCL-4 SHEET 1 OF 1
START DATE 17 Aug 06 Elevation FT. MSL
FINISH DATE 17 Aug 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	TIME	COMMENTS
1	Silty Sand (SM), olive brown [2/5 Y 4/4].			4.5 ft³ Concrete and Quickrete mix used for cover (vault) and surface seal								
2	Fine Sand (SP) with shell hash, dark grayish brown [2.5 Y 4/2], moist.											
3				0.3 ft³ Wyo-Ben Bentonite Chips								
4												
5									5			
6												
7												
8				3.8 ft³ Lapis Lustre RMC # 3 Sand								
9												
10	Fine to Medium Sand (SW) with shell hash, very dark greyish brown [2.5 Y 3/2].			2", 0.010" slotted schedule 40 PVC					100			
11												
12										0		
13												
14												
15												
16	Total Depth = 16 ft bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR Tri-County
EQUIPMENT CME-75
DRILL MTHD Hollow Stem
DIAMETER 8"
LOGGER R. Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 13 Oct 06

REMARKS:

COORDINATE SYSTEM:
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BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 13/10/06

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GS FORM: CORE3 10/00

BOREHOLE LOG

BORING MWCL-5 SHEET 1 OF 2
START DATE 17 Aug 06 Elevation FT. MSL
FINISH DATE 17 Aug 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION MATERIAL	SAMPLES NUMBER	SAMPLES TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS
1-2	Fill, fine to medium grain sand with intermixed pea gravel, dark olive brown [2.5Y 3/3]. Fine to Medium Sand (SW) with pebble clasts, dark olive brown [2.5Y 3/3].	4.6 ft³ Concrete and Quickrete mix used for cover (vault)							
3-8	Fine to Medium Sand with Gravel (GW), well graded, dark brown [10YR 3/3]								
9	No Recovery					0			
10							0		
11-13									
14	Sand (SP) with shell clast, poorly graded, black [2.5Y 2.5/1].					87.5			
15							0		
16						41.6			5 gal of water added
17-18		9.6 ft³ Wyo-Ben benitonite grout							
19						31.25			
20						77.3			
21							0		
22						45.8			5 gal of water added
23-24									
25						54.2			
26	Silty Sand (SM), black [2.5Y 2.5/1].					91.7			
27	Fine to Medium Grain Sand (SP), black [2.5Y 2.5/1].								
28	Silty Sand (SM), black [2.5Y 2.5/1]. Silty Sand (SM), black [2.5Y 2.5/1].					50			
29	Sand (SP), poorly graded, black [2.5Y 2.5/1].								
30	Silty Sand (SM) with biotite, black [2.5Y 2.5/1], wet.					75	0		
31-32		0.9 ft³ Sinclair TR30 bentonite pellets							
33-34									
35						79.2			

CONTRACTOR Tri-County
EQUIPMENT CME-75
DRILL MTHD Hollow Stem
DIAMETER 8"
LOGGER R. Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 13 Oct 06

REMARKS:

COORDINATE SYSTEM:
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BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 13/10/06

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Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: CORE3 10/00

BOREHOLE LOG

BORING MWCL-5 **SHEET** 2 OF 2
START DATE 17 Aug 06 **Elevation** FT. MSL
FINISH DATE 17 Aug 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	TIME	COMMENTS
36	with shell hash								100			
37												
38									91.2			
39										0		
40				7.6 ft³ Lapis Lustre RMC #3 sand								
41	Clay (CL) with shell hash, medium plasticity, black [2.5Y 2.5/1].			2", 0.010" slotted schedule 40 PVC								
42									100			
										0		
	Total Depth = 43 ft bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR Tri-County
EQUIPMENT CME-75
DRILL MTHD Hollow Stem
DIAMETER 8"
LOGGER R. Gray **REVIEWER**
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 13 Oct 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 13/10/06

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: CORE3 10/00

BOREHOLE LOG

BORING MWCL-6 SHEET 1 OF 1
START DATE 18 Aug 06 Elevation FT. MSL
FINISH DATE 18 Aug 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	TIME	COMMENTS
1	Medium Sand (SW) with gravel, olive brown [2.5Y 4/3], mps 10 mm.			4.5 ft³ Cement and Quickrete 2:1 mix								Hand Auger to 3 ft bgs.
2	trace asphalt											
3	more gravel, mps 1.5"			0.3 ft³ Enviroplug Medium Bentonite Chips								
4												
5									12.5	0		
6												
7												
8	drill action indicates possible cobbles			3.5 ft³ Lapis Lustre RMS #3 Sand								
9	Fine to Medium Sand (SP), olive brown [2.5Y 4/3], wet.			2", 0.010" Slotted schedule 40 PVC					71			
10										0		
11												
12												
13												
14	becomes black [2.5Y 2.5/1]											
15	Fine to Medium Sand (SM) with silt, black [2.5Y 2.5/1], wet.											
	Total Depth = 15.75 ft bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR Tri-County
EQUIPMENT CME-75
DRILL MTHD Hollow Stem
DIAMETER 8"
LOGGER R. Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 13 Oct 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 13/10/06

Geosyntec consultants
10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559
Fax: (858) 674-6586

GS FORM: CORE3 10/00

BOREHOLE LOG

BORING MWCL-7 SHEET 1 OF 2
START DATE 19 Dec 06 Elevation 11.15 FT. MSL
FINISH DATE 20 Dec 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	TIME	COMMENTS
1	loose, moist, brown [10YR 5/3], medium SAND (SP) with trace clay nodules			6.5 ft³ Concrete and Quickrete mix used for cover (vault)								
2												
3	appearance of pebble size clasts											
4	loose, moist, olive brown [2.5Y 4/4], silty SAND (SM) with trace gravel								67	0		
5									30			
6	loose, moist, light olive brown [2.5Y 4/3], medium SAND (SP)									0		
7												
8												
9												
10												▽
11	loose, wet, dark gray [5Y 3/1], medium SAND (SP) with trace shell hash								33	0		
12												
13												
14												
15												
16	loose, wet, very dark gray [5Y 3/1], silty SAND (SM) with shell hash								65	0		
17												
18												
19												
20												
21									48	0		
22												
23												
24	firm, moist, black [5Y 2.5/1], low plasticity, silty SAND with trace shell hash (ML)											
25												
26	loose, wet, dark gray [5Y 4/1], medium SAND (SP)								68			5 gallons of water added
27												
28												
29												
30										0		
31									100	0		5 gallons of water added
32												
33												
34												
35										0		
36									63			5 gallons of water added
37												
38												
39												
40												

CONTRACTOR Test America
EQUIPMENT CME-75
DRILL MTHD Hollow Stem Auger
DIAMETER 8"
LOGGER J. Rinehart REVIEWER

NORTHING 32.72843510
EASTING -117.1865199
ANGLE Vertical
BEARING ------
PRINTED 29 Mar 07

REMARKS:

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W:\WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

Geosyntec consultants
10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559
Fax: (858) 674-6586

GS FORM: CORE3 10/00

BOREHOLE LOG

BORING **MWCL-7** SHEET **2 OF 2**
START DATE **19 Dec 06** Elevation **11.15 FT. MSL**
FINISH DATE **20 Dec 06**
PROJECT **TDY**
LOCATION **Harbor Drive**
PROJECT NUMBER **SC0307**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	TIME	COMMENTS
41	soft, moist, greenish black [GLEY1 5GY], slight plasticity, silty SAND (ML)			67.4 ft³ Wyo-Ben benitonite cement					33	0		5 gallons of water added
42												
43	becomes brown [10YR 4/3]											
44												
45	firm, moist, dark greenish gray [Gley 4/1], medium plasticity, CLAY (CL)								100	0		5 gallons of water added
46												
47												
48												
49												
50	loose, moist, olive brown [2.5Y 4/4], coarse SAND with gravel (SP)								68	0		5 gallons of water added
51												
52												
53												
54	firm, moist, brown [10YR4/3], medium plasticity, CLAY (CL)											
55	loose, moist to wet, dark olive gray [5Y 3/2], fine to medium SAND (SP)			3.9 ft³ Sinclair TR30 bentonite pellets					85	0		5 gallons of water added
56												
57												
58												
59												
60									100			15 gallons of water added
61				10.5 ft³ RMC #3 sand								
62												
63				2", 0.010" slotted schedule 40 PVC								
64	increase in moisture									0		15 gallons of water added
65												
	Total Depth 65.5 ft bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR **Test America**
EQUIPMENT **CME-75**
DRILL MTHD **Hollow Stem Auger**
DIAMETER **8"**
LOGGER **J. Rinehart** REVIEWER
NORTHING **32.72843510**
EASTING **-117.1865199**
ANGLE **Vertical**
BEARING **-----**
PRINTED **29 Mar 07**

REMARKS:

COORDINATE SYSTEM: **MSL**
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

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GS FORM: CORE3 10/00

BOREHOLE LOG

BORING **MWCL-8** SHEET **1 OF 1**
START DATE **21 Dec 06** Elevation **8.90 FT. MSL**
FINISH DATE **21 Dec 06**
PROJECT **TDY**
LOCATION **Harbor Drive**
PROJECT NUMBER **SC0307**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	TIME	COMMENTS
0	loose, moist, very dark grayish brown [10YR 3/2], coarse SAND with gravel (GW)			12 ft³ Concrete and Quickrete mix used for cover (vault)					35	0		Located 16" east from the 60" SWCS
2	firm, moist, yellowish brown [10YR 5/4], slight plasticity, SILT with some clay (ML)											
3	soft, moist, light yellowish brown [2.5Y 6/3], silty SAND with some shell hash (SM)			0.9 ft³ Wyo-Ben benitonite cement								
4				0.4 ft³ Sinclair TR30 bentonite chips	5							
5									35	0		
7	becomes wet											▽
8				1.3 ft³ RMC #3 sand								
9				pre-packed 1", 0.010" slotted schedule 40 PVC	0							
10	becomes dark olive brown [2.5Y 3/3]								100	0		Clay lens from 9.4 to 9.7 ft bgs, dark yellowish brown [10YR 3/4].
11	loose, moist to wet, dark olive gray [5Y 3/2], medium SAND with shell hash (SP)											
12	Total Depth 12 ft bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR **Vironex**
EQUIPMENT **Geoprobe**
DRILL MTHD **Direct Push**
DIAMETER **3.25**
LOGGER **J. Rinehart** REVIEWER

NORTHING **32.72847261**
EASTING **-117.1852016**
ANGLE **Vertical**
BEARING **------**
PRINTED **29 Mar 07**

REMARKS:

COORDINATE SYSTEM: **MSL**
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

GEOSYNTEC CONSULTANTS
10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: CORE3 10/00

BOREHOLE LOG

BORING **B131-MW2D** SHEET **2 OF 2**
START DATE **14 Mar 06** Elevation **FT. MSL**
FINISH DATE **14 Mar 06**
PROJECT **TDY**
LOCATION **Harbor Drive**
PROJECT NUMBER **SC0307**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	TIME	COMMENTS
26								13/16/19				
27												
28				1.31 cubic feet 1/4 Bentonite Pellets								
29												
30	**Fine Sand (SP)** Dark gray [2.5Y 4/1], with shell hash											
31												
32												
33												
34				2.77 cubic feet #3 RMC quartz sand								
35												
36												
37				2" PVC, 0.010" slot								
38												
39	**Clay (CH)** Very dark gray [5Y 3/1], high plasticity											
40	Borehole Terminated at 40.5 feet bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR **BL2**
EQUIPMENT
DRILL MTHD **Hollow Stem Auger**
DIAMETER **8"**
LOGGER **B. Hitchens** REVIEWER

NORTHING
EASTING
ANGLE **Vertical**
BEARING **------**
PRINTED **3 May 06**

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

GEOSYNTEC CONSULTANTS
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Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: CORE3 10/00

BOREHOLE LOG

BORING B131-MW3D **SHEET** 1 OF 2
START DATE 14 Mar 06 **Elevation** FT. MSL
FINISH DATE 14 Mar 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	TIME	COMMENTS
1	**Sand (SP)** Dark yellowish brown [10YR 3/4], medium grained											
2	**Clay (CH)** Very dark gray [2.5Y 3/1], high plasticity			5.37 cubic feet Concrete and Quickrete mix used for cover (vault), 2/1 cement ratio								
3	**Fine Sand (SP)** Dark gray [2.5Y 4/1], with shell hash, loose											
4												
5	**Sandy Clay (CH)** Olive brown [2.5Y 4/3], with shell hash							7/10/13				
6	**Fine Sand (SP)** Dark gray [2.5Y 4/1], with shell hash											▽
7	**Fine Sand (SP)** Dark gray [2.5Y 4/1], wet, loose											Groundwater encountered at approximately 6.5 ft bgs on 3/14/06
8												
9												
10								10/10/10				
11												
12												
13												
14												
15	**Fine Sand (SP)** Dark gray [2.5Y 4/1], with trace shell hash											
16				7.68 cubic feet Grout								
17												
18												
19												
20								12/14/17				
21												
22												
23	**Brian Hitchens**											
24	**Professional Geologist No. 7593**											
25												

CONTRACTOR BL2
EQUIPMENT
DRILL MTHD Hollow Stem Auger
DIAMETER 8"
LOGGER B. Hitchens **REVIEWER**
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 3 May 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

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Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: CORE3 10/00

BOREHOLE LOG

BORING B131-MW3D **SHEET** 2 OF 2
START DATE 14 Mar 06 **Elevation** FT. MSL
FINISH DATE 14 Mar 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	WELL LOG	WELL CONSTRUCTION MATERIAL	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	TIME	COMMENTS
26							X	8/13/17				
27												
28												
29												
30				1.30 cubic feet 1/4 Bentonite Pellets								
31												
32												
33												
34				2.81 cubic feet #3 RMC quartz sand								
35												
36												
37				2" PVC, 0.010" slot								
38												
39	Clay (CH) Very dark gray [5Y 3/1], high plasticity											
40												
	Borehole Terminated at 40.5 feet bgs											

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR BL2
EQUIPMENT
DRILL MTHD Hollow Stem Auger
DIAMETER 8"
LOGGER B. Hitchens **REVIEWER**
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 3 May 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-44 **SHEET** 1 OF 1
START DATE 30 Mar 06 **ELEVATION** FT
FINISH DATE 30 Mar 06 **DATUM** Mean Sea Level
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	COMMENTS
	Coarse Sand (SP) Dark yellowish brown [10YR 3/4], with clay, Asphalt at first 3"								
	Fine Sand (SP) Grayish brown [2.5Y 5/2]								
	Clay (CH) Very dark grayish brown [2.5Y 3/2], with fine sand lenses, shell hash from 3.5' to 4'							0 ppm	
5	**Clay (CH)** Dark grayish brown [2.5Y 4/2], with sand lens and shell hash							0 ppm	
	Fine Sand (SP) Olive gray [5Y 4/2], with shell hash							0 ppm	▽ Groundwater encountered at 9 ft bgs on 3/30/06
	Clay (CH) Dark grayish brown [2.5Y 4/2]								
10	**Sand (SP)** Dark gray [5Y 4/1], fine grained								
	Borehole Terminated at 11 feet bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER B. Hitchens **REVIEWER**
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 3 May 06

REMARKS: Backfilled with 0.24 cubic feet Enviroplug bentonite pellets to surface

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

GEOSYNTEC CONSULTANTS
10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-45 **SHEET** 1 OF 1
START DATE 30 Mar 06 **ELEVATION** FT
FINISH DATE 30 Mar 06 **DATUM** Mean Sea Level
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	PID READING (ppm)	COMMENTS
	Asphalt / Gravely Sand (GW) with pebble sized clasts (Fill), dark brown [10YR 3/3]								
	Silty Sand (ML) Olive [5Y 5/3]								
	Clay (CH) Dark olive gray [5Y 3/2], high cohesiveness, with fine grained sand lenses							0.8 ppm	
5	**Clayey Sand (SC)** Olive [5Y 4/3], with shell hash								
	Fine Sand (SP) Gray [5Y 5/1], with shell hash								
	Clay (CH) Gray [5Y 5/1], with shell hash							0.7 ppm	
	Fine Sand (SP) Gray [5Y 5/1], with shell hash								
	Clay (CH) Dark olive gray [5Y 3/2]							0 ppm	▽
	Fine Sand (SP) Dark olive gray [5Y 3/2], with shell hash								Groundwater encountered at 8' 8.5" ft bgs on 3/30/06
10	**Fine Sand (SP)** Dark gray [2.5Y 4/1]				☒				
	No Recovery								
	Borehole terminated at 35 feet bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER B. Hitchens **REVIEWER**
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 3 May 06

REMARKS: Backfilled with 0.76 cubic feet Enviroplug bentonite pellets to surface

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

GEOSYNTEC CONSULTANTS

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-46 **SHEET** 1 OF 1
START DATE 30 Mar 06 **ELEVATION** FT
FINISH DATE 30 Mar 06 **DATUM** Mean Sea Level
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	PID READING (ppm)	COMMENTS
	Gravely Sand (GW) with Asphalt, dark olive brown [2.5Y 3/3]								
	Fine Sand (SP) Olive [5Y 4/3], with shell hash							0 ppm	
	Clay (CH) Dark olive brown [2.5Y 3/3]								
	Silty Sand (ML) Olive brown [2.5Y 4/3]								
5	**Clay (CH)** Dark olive brown [2.5Y 3/3]								
	Clayey Sand (SC) Dark gray [2.5Y 4/1], with shell hash								
	Fine Sand (SP) Gray [5Y 5/1]							0 ppm	
	Clayey Sand (SC) Dark gray [2.5Y 4/1]								
	Fine Sand (SP) Very dark gray [5Y 3/1], with trace shell hash							0 ppm	▽ Groundwater encountered at 8.5 ft bgs on 3/30/06
10	**Fine Sand (SP)** Dark gray [2.5Y 4/1]								
	Borehole Terminated at 11 feet bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER B. Hitchens **REVIEWER**
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 3 May 06

REMARKS: Backfilled with 0.24 cubic feet Enviroplug bentonite pellets to surface

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-47 **SHEET** 1 OF 1
START DATE 13 Apr 06 **ELEVATION** FT
FINISH DATE 13 Apr 06 **DATUM** Mean Sea Level
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
	Fine to Medium Sand (SP) Dark yellowish brown (10YR 4/4)								
	Clay (CH) Dark grayish brown (10YR 4/2)								
5									TPH Sample from 5.5-6.5 feet Sudan Red at 6.5 feet negative SIREM sample from 6.5-7 feet SIREM sample from 7-11 feet
	Fine to Medium Sand (SP) Dark yellowish brown (10YR 4/4)								
	Fine to Medium Sand (SP) Very dark gray (10YR 3/1)								
10									
	Borehole Terminated at 11 feet bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Lieder **REVIEWER**
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 3 May 06

REMARKS: Backfilled with 0.24 cubic feet Enviroplug bentonite pellets

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

GEOSYNTEC CONSULTANTS

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San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-48 **SHEET** 1 OF 2
START DATE 13 Apr 06 **ELEVATION** FT
FINISH DATE 13 Apr 06 **DATUM** Mean Sea Level
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
0	**Fine to Medium Sand (SP)** Olive (5Y 5/3)								TPH Sample from 5.5-6.5 feet
									Sudan Red at 6.5 feet negative
									SIREM sample from 6.5-7 feet
5	**Clay (CH)** Dark grayish brown (10YR 4/2)								
	Fine Sand (SP) Very dark gray (10YR 3/1)								▽
									SIREM sample from 7-11 feet
10	No Recovery								
15									
20									
25									

CONTRACTOR H&P
EQUIPMENT
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Lieder **REVIEWER**

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 3 May 06

REMARKS: Backfilled with 0.76 cubic feet Enviroplug bentonite gel

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

GEOSYNTEC CONSULTANTS

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San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-48 **SHEET** 2 OF 2
START DATE 13 Apr 06 **ELEVATION** FT
FINISH DATE 13 Apr 06 **DATUM** Mean Sea Level
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	COMMENTS
30									
35	Borehole Terminated at 35 feet bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Lieder **REVIEWER**

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 3 May 06

REMARKS: Backfilled with 0.76 cubic feet Enviroplug bentonite gel

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

GEOSYNTEC CONSULTANTS
10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-49 **SHEET** 1 OF 1
START DATE 13 Apr 06 **ELEVATION** FT
FINISH DATE 13 Apr 06 **DATUM** Mean Sea Level
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
	Fine to Medium Sand (SP) Dark yellowish brown (10YR 4/6)								
	Sandy Clay (SC) Brown (10YR 4/3)								
	Clay (CH) Brown (10YR 4/3)								
	Fine to Medium Sand (SP) Gray (10YR 4/3)								
5									Sudan Red at 5 feet negative TPH Sample from 5-6 feet ▽
	Clay (CH) Brown (10YR 4/3)								SIREM sample from 6-7 feet
	Fine Sand (SP) Very dark gray (10YR 3/1)								
10									SIREM sample from 7-11 feet
	Borehole Terminate at 11 feet bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Lieder **REVIEWER**
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 3 May 06

REMARKS: Backfilled with 0.24 cubic feet Enviroplug bentonite pellets

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 3/5/06

Geosyntec consultants
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Tel: (858) 674-6559
Fax: (858) 674-6586

GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-50 SHEET 1 OF 2
START DATE 12 Oct 06 ELEVATION FT MSL
FINISH DATE 12 Oct 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	PID READING (ppm)	COMMENTS
	Concrete				⊠				
	Moist, yellowish brownish gray (2.5Y 4/2 to 2.5Y 5/4), mottled, slight plasticity, CLAY (ML)								
	Moist, grayish brown (2.5Y 5/2), fine to medium grained SAND (SP).								
	Moist, olive brown (2.5Y 4/3), CLAYEY SAND with shell hash (SC)							0.5	
5	Moist, dark grayish brown (2.5Y 4/2), mottled, CLAY with sand (CH)				⊠				▽
	Moist, olive brown (2.5 Y 4/3), SILTY SAND (SM)							1.0	
	Moist, olive brown (2.5Y 4/3), coarse SAND with shell hash (SP)							2.1	
	Moist, olive brown (2.5Y 4/3), medium plasticity, CLAY (CL)								
10	Moist, very dark grayish brown (2.5Y 3/2), poorly graded, medium SAND (SP)				⊠				
	No recovery								
15									
20									
25									

CONTRACTOR H&P
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2 "
LOGGER Ryan Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 27 Mar 07

REMARKS: Backfilled with 0.89 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 27/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-50 SHEET 2 OF 2
START DATE 12 Oct 06 ELEVATION FT MSL
FINISH DATE 12 Oct 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
30									
35									
40									Density change at 41 ft bgs likely contact with Bay Point Formation
	Total Depth at 41 ft bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2 "
LOGGER Ryan Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 27 Mar 07

REMARKS: Backfilled with 0.89 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 27/3/07

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Tel: (858) 674-6559
Fax: (858) 674-6586

GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-51 SHEET 1 OF 2
START DATE 12 Oct 06 ELEVATION FT MSL
FINISH DATE 12 Oct 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	PID READING (ppm)	COMMENTS
0	Moist, dark grayish brown (2.5Y 4/2), poorly graded, SAND with shell hash (SP)				⊠			0	
5					⊠			2.5	▽
10	No recovery				⊠			25.4	
15									
20									
25									

CONTRACTOR H&P
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2 "
LOGGER Ryan Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 27 Mar 07

REMARKS: Backfilled with 0.84 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 27/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-51 SHEET 2 OF 2
START DATE 12 Oct 06 ELEVATION FT MSL
FINISH DATE 12 Oct 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	COMMENTS
30									
35									Noticable density change at 38 ft bgs
	Total Depth at 38.5 ft bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2 "
LOGGER Ryan Gray REVIEWER
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 27 Mar 07

REMARKS: Backfilled with 0.84 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 27/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-52 SHEET 1 OF 2
START DATE 17 Oct 06 ELEVATION FT MSL
FINISH DATE 17 Oct 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	PID READING (ppm)	COMMENTS
	Concrete				⊠				
	Moist, dark reddish brown (5YR 3/2), SAND with shell hash (SP)								
	Moist, olive brown (2.5Y 4/3), fine to medium SAND (SP)							0	
	Moist, dark reddish brown (5YR 3/4), fine to medium SAND (SP)								
5					⊠				
								1.4	▽
	becomes more dense with slight bedding								
10					⊠				
	Moist, olive brown (2.5Y 4/2), fine SAND with silt (SM)							3.8	
	Moist, dark olive brown (2.5Y 3/3), well graded, SAND with shell hash (SW)								
	No recovery								
15									
20									
25									

CONTRACTOR H&P
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2 "
LOGGER Ryan Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ----
PRINTED 27 Mar 07

REMARKS: Backfilled with 0.81 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 27/3/07

Geosyntec consultants
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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-52 SHEET 2 OF 2
START DATE 17 Oct 06 ELEVATION FT MSL
FINISH DATE 17 Oct 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	COMMENTS
30									
35									
	Total Depth at 37 ft bgs								At 37 ft bgs sample taken for VOCs, it was a low permeability zone with insufficient recharge for a SVOC sample

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2 "
LOGGER Ryan Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING -----
PRINTED 27 Mar 07

REMARKS: Backfilled with 0.81 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 27/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-53 SHEET 1 OF 2
START DATE 17 Oct 06 ELEVATION FT MSL
FINISH DATE 17 Oct 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	PID READING (ppm)	COMMENTS
	Concrete								
	Dry, olive brown (2.5Y 4/3), SAND with shell hash (SP)							0	
5									
	Becomes moist								
	Moist, dark olive gray (5Y 3/2), SAND with shell hash (SP)							6.0	
10									
	No recovery							23.7	
15									
20									
25									

CONTRACTOR H&P
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2 "
LOGGER Ryan Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING -----
PRINTED 27 Mar 07

REMARKS: Backfilled with 0.82 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 27/3/07

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BOREHOLE RECORD

BORING T-53 SHEET 2 OF 2
START DATE 17 Oct 06 ELEVATION FT MSL
FINISH DATE 17 Oct 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
30									
35									
	Total Dpeth at 38 ft bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR H&P
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2 "
LOGGER Ryan Gray REVIEWER

NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 27 Mar 07

REMARKS: Backfilled with 0.82 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 27/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-54 **SHEET** 1 OF 4
START DATE 20 Dec 06 **ELEVATION** 10.77 FT MSL
FINISH DATE 20 Dec 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	COMMENTS
	very dark gray [10YR 3/1], ASPHALT						70	0	
	loose, moist, dark yellowish brown [10YR 4/6], medium SAND (SW) with gravel								
	firm, moist, yellowish brown [10YR 5/4], high plasticity, CLAY (CL)								
	loose, moist, dark yellowish brown [10YR 4/6], coarse SAND (SP) with gravel								
5							71	0	
	loose, moist, very dark brown [10YR 4/4], medium to coarse SAND (GP) with gravel and shell hash								
	firm, yellowish brown [10YR 4/4], high plasticity, CLAY (CL)								
	loose, moist, black [10YR 4/2], GRAVEL (GP)								
	loose, moist, dark grayish brown [10YR 4/2], medium SAND (SM)								
	loose, dry, white [10YR 8/1], GRAVEL (GP)								
10	loose, wet, very dark gray [10YR 3/1], medium SAND (SP) with gravel						100	0	
	No Recovery								
15									
20									

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER J. Rinehart **REVIEWER**

NORTHING 32.72853960
EASTING -117.1864130
ANGLE Vertical
BEARING ------
PRINTED 29 Mar 07

REMARKS: Backfilled with 1.4 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-54 **SHEET** 2 OF 4
START DATE 20 Dec 06 **ELEVATION** 10.77 FT MSL
FINISH DATE 20 Dec 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
25									
30									
35									
40									

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER J. Rinehart **REVIEWER**

NORTHING 32.72853960
EASTING -117.1864130
ANGLE Vertical
BEARING ------
PRINTED 29 Mar 07

REMARKS: Backfilled with 1.4 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-54 **SHEET** 3 OF 4
START DATE 20 Dec 06 **ELEVATION** 10.77 FT MSL
FINISH DATE 20 Dec 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
45									
50									
55									
60									

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER J. Rinehart **REVIEWER**

NORTHING 32.72853960
EASTING -117.1864130
ANGLE Vertical
BEARING ------
PRINTED 29 Mar 07

REMARKS: Backfilled with 1.4 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-54 SHEET 4 OF 4
START DATE 20 Dec 06 ELEVATION 10.77 FT MSL
FINISH DATE 20 Dec 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	COMMENTS
65	Total Depth at 65 ft bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER J. Rinehart REVIEWER

NORTHING 32.72853960
EASTING -117.1864130
ANGLE Vertical
BEARING ------
PRINTED 29 Mar 07

REMARKS: Backfilled with 1.4 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-55 **SHEET** 1 OF 4
START DATE 20 Dec 06 **ELEVATION** 11.22 FT MSL
FINISH DATE 20 Dec 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS PER 6"	SAMPLES RECOVERY (%)	SAMPLES PID READING (ppm)	COMMENTS
	very dark gray [10YR 3/1], ASPHALT								
	loose, moist, pale brown [10YR 6/3], GRAVEL (GM)						92	0	
	becomes dark yellowish brown [10YR 4/4]								
	loose, moist, dark yellowish brown [10YR 4/6], SAND (SP) with gravel								
5	loose, moist, very dark grayish brown [10YR 3/2], GRAVEL (GM)						80	0	
	loose, moist, very dark grayish brown [10YR 3/2], low plasticity, GRAVEL (GM)								
	Shell hash present								
	loose, dry, white [10YR 8/1], GRAVEL (GP) with sand								
	loose, moist, very dark brown [10YR 3/2], SAND (SP) with gravel								
	loose, dry, light yellowish brown [2.5Y 6/3], Silty SAND (SM)								
	becomes moist								
	color change to light olive brown [2.5Y 5/6]								
10	loose, moist, dark olive brown [2.5Y 3/3], SAND (SP) with some gravel						100	0	
	loose, wet, very dark grayish brown [2.5Y 3/2], SAND (SM)								
	No Recovery								
15									
20									

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER J. Rinehart **REVIEWER**

NORTHING 32.72834100
EASTING -117.1866354
ANGLE Vertical
BEARING ------
PRINTED 29 Mar 07

REMARKS: Backfilled with 1.5 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-55 **SHEET** 2 OF 4
START DATE 20 Dec 06 **ELEVATION** 11.22 FT MSL
FINISH DATE 20 Dec 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
25									
30									
35									
40									

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER J. Rinehart **REVIEWER**

NORTHING 32.72834100
EASTING -117.1866354
ANGLE Vertical
BEARING ------
PRINTED 29 Mar 07

REMARKS: Backfilled with 1.5 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

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BOREHOLE RECORD

BORING T-55 **SHEET** 3 OF 4
START DATE 20 Dec 06 **ELEVATION** 11.22 FT MSL
FINISH DATE 20 Dec 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
45									
50									
55									
60									

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER J. Rinehart **REVIEWER**

NORTHING 32.72834100
EASTING -117.1866354
ANGLE Vertical
BEARING ------
PRINTED 29 Mar 07

REMARKS: Backfilled with 1.5 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

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GS FORM: BORE 1/99

BOREHOLE RECORD

BORING T-55 **SHEET** 4 OF 4
START DATE 20 Dec 06 **ELEVATION** 11.22 FT MSL
FINISH DATE 20 Dec 06
PROJECT TDY
LOCATION Harbor Drive
PROJECT NUMBER SC0307

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS PER 6"	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	COMMENTS
65									
70	Total Depth at 70 ft bgs								

Brian Hitchens
Professional Geologist No. 7593

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER J. Rinehart **REVIEWER**

NORTHING 32.72834100
EASTING -117.1866354
ANGLE Vertical
BEARING ------
PRINTED 29 Mar 07

REMARKS: Backfilled with 1.5 cubic feet Enviroplug bentonite pellets to surface.

COORDINATE SYSTEM: MSL
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG NO WELL (BRIAN) SC0307.GPJ GEOSNTEC.GDT 29/3/07

GEOSYNTEC CONSULTANTS

1 of 1

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: TDY
Project Number: SC0307
Site: TDY

Date: 3/31/06
Weather: overcast 63°
Sample Collected by: CL, SA

Well Data
Well I.D.: B131-MW3D
Well Diameter (in.): 2"
Well Depth (ft): 39.92

Depth to Surface Water (ft): 7.81
Immiscible Layer: Y / N

Well Purging
Method/Equipment: Bladder pump / Low flow
pH/Cond/turb meter ID #: U-22
Water Column Length (ft):
Volume of Water in Well (gal):

Depth of Pump (ft): 37.5
Max Depth During Purging (ft): 12.35
Depth at Time of Sampling (ft): 12.35
Total Volume Purged (gal): x3

Time	Volume Purged	Pump Rate	pH (pH units)	Cond. ~~(µS/cm)~~ mS/cm	Turbidity (NTU)	Temp (°C)	Comments	DTW	DO	ORP
14:00	-	225	7.20	>99.9	244	22.8		11.7	0.81	-127
14:03	-	225	7.20	>99.9	108	23.0		12.65	0.78	-129
14:15	2.5	100	7.21	>99.9	190	22.3	Adjusted flow	12.1	0.84	-123
14:20		100	7.21	>99.9	250	22.4		12.25	0.97	-110
14:25		100	7.20	>99.9	267	22.5		12.3	0.95	-110
14:30		100	7.20	>99.9	271	22.3		12.35	0.90	-109
14:35		100	7.20	>99.9	262	22.5		12.35	0.88	-108

% Recovery:
Purge Water Disposal:

14:40		100	7.20	>99.9	258	22.6		12.35	0.84	-107

Sample Collection

Parameter/Method	Bottle Type and Volume	Filtered	Preservative
VOC 8260	40mL VOA	—	HCl
SVOC 8270	1 Liter Amber	—	—

Date/Time: 3/31/06 14:50 COC#:
Comments:

Samplers Signature:

GEOSYNTEC CONSULTANTS

1063

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: TDY
Project Number: SC0307
Site: TDY

Date: 3/31/06
Weather: overcast 60°
Sample Collected by: CL, SA

Well Data
Well I.D.: B131-MW2D
Well Diameter (in.): 2"
Well Depth (ft): 39.91

Depth to Surface Water (ft): 7.95
Immiscible Layer: Y / N

Well Purging
Method/Equipment: Bladder pump / low flow
pH/Cond/turb meter ID #: Horiba U-22
Water Column Length (ft): 31.96
Volume of Water in Well (gal):

Depth of Pump (ft): ~~37.75~~ 37.5
Max Depth During Purging (ft): ~~37.75~~ 37.5
Depth at Time of Sampling (ft): 18.80
Total Volume Purged (gal): 6.5

Started purging 9:45

Time	Volume Purged	Pump Rate	pH (pH units)	Cond. ms/cm (µS/cm)	Turbidity (NTU)	Temp (°C)	Comments	DTW	DO	ORP
9:50		<400ml	7.40	>99.9	350	22.4		9.80	1.56	-119
9:53		<400ml	7.39	>99.9	152	22.5		11.25	1.28	-128
9:57		<400ml	7.40	>99.9	41.3	22.6		13.35	1.01	-139
10:02		<400ml	7.41	>99.9	38.6	22.6		17.65	0.95	-139
10:06		<400ml	7.41	>99.9	33.8	22.6		19.50	0.80	-143
10:09		<400ml	7.41	>99.9	~~34.5~~	22.6		21.2	0.75	-144
10:11		<400ml	7.42	799.9	41.3	22.5		23.20	0.73	-144

% Recovery:
Purge Water Disposal:

Sample Collection

Parameter/Method	Bottle Type and Volume	Filtered	Preservative
VOC 8260	40ml VOA	—	HCL
VOC 8270	1 Liter Amber	—	—

Date/Time: 3/31/06 12:39
COC#:
Comments: well pumped Dry, Waited 2 hour. Then sampled. Depth @ time of sampling 18.80.

Samplers Signature:

GEOSYNTEC CONSULTANTS

GROUNDWATER SAMPLE COLLECTION LOG

2 of 3

Project Name: TDY
Project Number: SC0307
Site: TDY

Date: 3/3/06
Weather: overcast 63°
Sample Collected by: CL, SA

Well Data
Well I.D.: B131-MW21D
Well Diameter (in.): 2"
Well Depth (ft): 39.91

Depth to Surface Water (ft): 7.95
Immiscible Layer: Y / N

Well Purging
Method/Equipment: Bladder / Low flow
pH/Cond/turb meter ID #: U-22
Water Column Length (ft): ~~31.96~~ 31.96
Volume of Water in Well (gal):

Depth of Pump (ft): ~~37.75~~ 37.5
Max Depth During Purging (ft):
Depth at Time of Sampling (ft):
Total Volume Purged (gal):

Time	Volume Purged	Pump Rate	pH (pH units)	Cond. (µS/cm)	Turbidity (NTU)	Temp (°C)	Comments	DTW	DO	ORP
10:15		>400 ml	7.43	>99.9	43.5	22.5		24.3	0.87	-138
10:19		>400ml	7.43	>99.9	49.7	22.5		26.35	0.87	-136
10:23		>400ml	7.43	>99.9	49.4	22.5		27.95	0.85	-134
10:27		>400ml	7.43	>99.9	44.5	22.5		29.79	0.84	-132
10:31		>400ml	7.42	>99.9	39.5	22.6		31.55	0.82	-131
10:35		>400ml	7.42	>99.9	40.0	22.6		32.56	0.75	-131
10:39		>400ml	7.41	>99.9	23.8	22.5		33.80	0.73	-131

% Recovery:
Purge Water Disposal:

Sample Collection

Parameter/Method	Bottle Type and Volume	Filtered	Preservative

Date/Time: COC#:
Comments:

Samplers Signature:

GEOSYNTEC CONSULTANTS

3063

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: TDY
Project Number: SL0307
Site: TDY

Date: 3/31/06
Weather: overcast 68°
Sample Collected by: CL, SA

Well Data
Well I.D.: B131-MW2D
Well Diameter (in.): 2"
Well Depth (ft): 39.91

Depth to Surface Water (ft): 7.95
Immiscible Layer: Y / N

Well Purging
Method/Equipment: Bladder / Low Flow
pH/Cond/turb meter ID #: U-22
Water Column Length (ft): 31.96
Volume of Water in Well (gal):

Depth of Pump (ft): ~~37.5~~ 37.5
Max Depth During Purging (ft):
Depth at Time of Sampling (ft):
Total Volume Purged (gal):

Time	Volume Purged	Pump Rate	pH (pH units)	Cond. (µS/cm)	Turbidity (NTU)	Temp (°C)	Comments	DTW	DO	ORP
10:43		7400ml	7.41	799.9	22.6	22.5		37.75	0.72	-130
stopped pumping to sample		- well	pumped	Dry.	will	wait	few 80%	Recovery		

% Recovery:
Purge Water Disposal:

Sample Collection

Parameter/Method	Bottle Type and Volume	Filtered	Preservative
VOC 8260	40ml VOA	-	HCl
SVOC 8270	1 Liter Amber	-	-

Date/Time: 3/31/06 @ 12:39
COC#:
Comments:

Samplers Signature:

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site: TDY Project No.: SC0307

Monitoring Well: MWCL-1 Sampling Date: 8/31/06

Sample ID: MWCL-1 Sampler: D Skippan and J Rinehart

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	D.O.	DTW	Turbidity Appearance of Water
8:50					24.0	80.1	7.15	~~[illegible]~~71	n/a	7.0	9.0
8:55					24.0	80.4	7.20	-94	n/a	6.84	9.0 pump rate 130 mV/min
9:00					23.9	80.6	7.21	-108	n/a	6.81	11.0
9:05					23.9	81.8	7.21	-120	n/a	6.81	25.0
9:10					23.8	85.5	7.20	-142	n/a	6.81	48.0
9:15					23.8	87.6	7.20	-162	n/a	6.82	28.0
9:20					23.8	87.9	7.20	-169	n/a	6.82	22.0
9:25					23.8	87.8	7.20	-170	n/a	6.82	19.0
9:30					23.8	87.8	7.20	-173	n/a	6.82	19.0 Sampled

Meter Calibration

Meter Number: N/A

Parameter	Date & Time Calibrated	Calibration Results
pH	N/A	pH 4: ✓ ; pH 7: _____ ; pH 10: _____ (ATC)
Conductivity	N/A	_____ µS/cm fluid reads _____ (ATC)
Redox Pot.	N/A	+231 mv Zoebell solution reads N/A

see calibration sheet

Split, Blank, Duplicate, & Filtered Samples

Sample ID	Description

Miscellaneous

Depth to Water: _____ ft

Turbidity: _____ NTUs

Dis. Oxygen: _____ ppm

Pump Rate: 140 ml per min, _____ sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

Total Depth 42.2 ft bgs Upper 1/3 of screen: 38.87 ft bgs.

Prior to purging DTW 6.77 ft bgs

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site: TDY Project No.: SC0307

Monitoring Well: MWCL-2 Sampling Date: 8/31/06

Sample ID: MWCL-2 Sampler: D Skipper and J Rinehart

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	D.O.	D.T.W.	Turbidity Appearance of Water
10:52					26.1	70.3	7.22	-130	n/a	7.20	19
10:59					26.0	89.4	7.30	-42	n/a	7.20	24 pump rate: 250 ml/m
11:05					25.9	87.0	7.33	-38	n/a	7.20	19
11:10					25.9	86.8	7.33	-67	n/a	7.20	22
11:15					25.9	86.4	7.34	-70	n/a	7.20	17
11:20					25.8	86.5	7.34	-72	n/a	7.20	15
11:25					25.8	86.4	7.34	-75	n/a	7.20	16
11:30					25.8	86.6	7.33	-74	n/a	7.20	15
11:35					25.9	86.2	7.34	-73	n/a	7.20	15
11:40											sampled

Meter Calibration

Meter Number: ~~1~~

Parameter	Date & Time Calibrated	Calibration Results
pH	~~1~~	pH 4: ~~1~~; pH 7: ____; pH 10: ____ (ATC)
Conductivity	~~1~~	____ µS/cm fluid reads ____ (ATC)
Redox Pot.	~~1~~	+231 mv Zoebell solution reads ~~1~~

See calibration sheet

Split, Blank, Duplicate, & Filtered Samples

Sample ID	Description

Miscellaneous

Depth to Water: 6.96 ft

Turbidity: ____ NTUs

Dis. Oxygen: ____ ppm

Pump Rate: 300 ml ~~in~~

1 min, ____ sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

TD 14.95 bgs

pump at 9.5

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site: TDY Project No.: SC0307

Monitoring Well: MWCL-2 Sampling Date: 9/1/06

Sample ID: MWCL-2 Sampler: Dave Skipper and Jessica Rinena

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	D.O.	DTW	Turbidity Appearance of Water
16:40					26.1	11.3	7.39	-60	n/a	7.10	14
16:43					25.6	10.8	7.31	-67	n/a	7.10	84
16:46					25.5	10.4	7.30	-85	n/a	7.10	76
16:48					25.6	10.8	7.30	-98	n/a	7.10	45
16:51					25.6	10.7	7.31	-105	n/a	7.10	34
16:54					25.6	10.6	7.31	-109	n/a	7.10	32
16:57					25.5	10.5	7.32	-112	n/a	7.10	31 Sampled @ 17:00

Meter Calibration

Meter Number: IR

Parameter	Date & Time Calibrated (See calibration sheet)	Calibration Results
pH		pH 4: ; pH 7: ; pH 10: (ATC)
Conductivity		µS/cm fluid reads (ATC)
Redox Pot.		+231 mv Zoebell solution reads

Split, Blank, Duplicate, & Filtered Samples

Sample ID	Description

Miscellaneous

Depth to Water: ft

Turbidity: NTUs

Dis. Oxygen: ppm

Pump Rate: 200 ml/min, sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

Pump depth 10 ft bgs
1 poly 1 liter Metals
1 amber 1 liter PCBs
TD 14.95

note HeA collects metal sample in preserved container

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site: TDY Project No.: SC0307

Monitoring Well: MWCL-3 Sampling Date: 8/31/06

Sample ID: MWCL-3 Sampler: D Skippon and J Rinehart

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	D.O.	DTW (Flbgs)	Turbidity Appearance of Water (NTU)	
1310					24.3	83.4	6.79	-75	n/a	9.3	37	
1315					23.9	84.3	6.80	-80	n/a	10.25	80	
13:20					24.0	82.0	6.81	-88	n/a	10.70	80	
13:25					23.8	82.3	6.82	-103	n/a	11.00	69	
13:30					24.0	81.9	6.82	-104	n/a	10.90	68	
13:35					24.2	82.0	6.81	-102	n/a	10.90	66	150 ml/min pump rate
13:40					24.2	83.3	6.84	-118	n/a	10.80	67	
13:45					24.2	83.2	6.84	-119	n/a	10.65	24	
13:50					24.0	83.4	6.85	-121	n/a	10.70	20	
13:54					24.2	83.3	6.85	-123	n/a	10.68	42	
13:58					24.1	83.0	6.85	-124	n/a	10.65	42	
14:03					24.1	83.2	6.86	-126	n/a	10.65	44	sampled

Meter Calibration

Meter Number: A

Parameter	Date & Time Calibrated	Calibration Results
pH	See calibration sheet	pH 4: ; pH 7: ; pH 10: (ATC)
Conductivity		µS/cm fluid reads (ATC)
Redox Pot.		+231 mv Zoebell solution reads

Split, Blank, Duplicate, & Filtered Samples

Sample ID	Description

Miscellaneous

Depth to Water: 8.48 ft

Turbidity: NTUs

Dis. Oxygen: ppm

Pump Rate: ~130 ml

1 min, sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

TD: 43.12

pump @ 34.7'

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site: TDY Project No.: SC0307

Monitoring Well: MWCL-4 Sampling Date: 8/31/06

Sample ID: MWCL-4 Sampler: DSKippon and J Rinehart

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	D.O.	DTW	Turbidity Appearance of Water
15:14					25.6	1.85	6.98	7	n/a	7.86	11
15:18					25.6	1.83	6.91	-16	n/a	7.86	H
15:21					25.7	1.83	6.89	-27	n/a	7.85	4
15:24					25.6	1.82	6.90	-38	n/a	7.86	6
15:27					25.5	1.82	6.90	-42	n/a	7.86	3
15:30					25.5	1.82	6.90	-49	n/a	7.96	2
15:32											sampled.

Meter Calibration

Meter Number:

Parameter	Date & Time Calibrated	Calibration Results
pH	See calibration sheet	pH 4: ; pH 7: ; pH 10: (ATC)
Conductivity		µS/cm fluid reads (ATC)
Redox Pot.		+231 mv Zoebell solution reads

Split, Blank, Duplicate, & Filtered Samples

Sample ID	Description

Miscellaneous

Depth to Water: 7.82 ft

Turbidity: NTUs

Dis. Oxygen: ppm

Pump Rate: 240 ml

1 min, sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

TD 14.10

10 ftbgs pump

DTW Prior to purging 7.8 ftbgs

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site: MWCL-5 TDY Project No.: SC0307

Monitoring Well: MWCL-5 Sampling Date: 9/1/00

Sample ID: MWCL-5 Sampler: D Skippen and J Rinehart

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	D.O.	DTW	Turbidity Appearance of Water
8.45					23.7	6.18	7.05	86	n/a	12.78	26
8:52					23.8	63.1	7.13	87	n/a	12.40	23
8.57					24.1	63.9	7.12	92	n/a	13.20	31 120 flowrate
9:01					24.2	64.5	7.13	96	n/a	13.90	32
9.06					24.2	64.7	7.13	97	n/a	14.30	45
9:10					24.2	64.8	7.13	99	n/a	15.30	48
9.15					24.3	65.3	7.12	96	n/a	16.20	50
9.20					24.3	65.1	7.12	97	n/a	16.70	50
9.25					24.3	1.051	7.11	96	n/a	17.32	52 100 flowrate
9.30					24.3	65.4	7.11	92	n/a	17.30	51
9.35					24.6	65.6	7.16	93	n/a	18.10	49
9:39					24.7	65.5	7.10	91	n/a	18.40	43

Meter Calibration

Meter Number: X

Parameter	Date & Time Calibrated	Calibration Results
pH	X	pH 4: X ; pH 7: _____ ; pH 10: _____ (ATC)
Conductivity	X	_____ µS/cm fluid reads _____ (ATC)
Redox Pot.	X	+231 mv Zoebell solution reads X

Split, Blank, Duplicate, & Filtered Samples

Sample ID	Description

Miscellaneous

Depth to Water: 10.48 ft

Turbidity: _____ NTUs

Dis. Oxygen: _____ ppm

Pump Rate: [redacted] 130 ml

_____ min, _____ sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

TD 42.22

MD 18.90

38.86 depth of pump.

pH of decon water 7.90

water level prior to purging 9.30

Waited 15 min for dtw to stabalize, tide coming in.

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

P2

Site: MWCL-5 TDY Project No.: SC0307

Monitoring Well: MW CL-5 Sampling Date: 9/11/06

Sample ID: MW CL-5 Sampler: D. Shannon / J. Rhebart

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	DTW	Appearance of Water (turbidity, odor)
4:50					24.7	65.4	7.09	86	19.3	24 Begin bailing
1314					23.5	98.4	7.20	141	20.2	at time of sampling 34 turbidity, no odor
					* SAMPLED	AS	SLOW	RECHARGE		
					WELL	DEPLETE	WELL DID	NOT		
					MEET	LOW	FLOW	PURGING		
					CRITERIA					

* Meter Calibration

Meter Number: *

Parameter	Date & Time Calibrated * See calibration sheet	Calibration Results
pH	*	pH 4: * ; pH 7: ____ ; pH 10: ____ (ATC)
Conductivity	*	____ µS/cm fluid reads ____ (ATC)
Redox Pot.	*	+231 mv Zoebell solution reads *

~~Split, Blank, Duplicate, & Filtered Samples~~

Sample ID	Description (5 samples collected)
	1 - 1 liter amber SVOCs
1 Liter Metals	
3 VOAs VOCs	
3 VOAs TPH	
1 liter amber PCBs	

Miscellaneous

Depth to Water: * ft

Turbidity: ____ NTUs

Dis. Oxygen: ____ ppm

Pump Rate: ____ in

____ min, ____ sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

maximum depth 19.3 ft bgs using bladder pump
DTW after bailing 41.82 in disposable bailer
Total volume purged 13.50

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site: TDY Project No.: SC0307

Monitoring Well: MWCL-6 Sampling Date: 8/31/06

Sample ID: MWCL-6 Sampler: D Skippon + J Rinehart

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	D.O.	DTW	Turbidity Appearance of Water
16:29					24.9	3.47	7.23	-79	n/a	9.8	18
16:33					24.6	3.38	7.11	-103	n/a	9.8	19
16:38					24.3	3.37	7.13	-126	n/a	9.4	19
16:42					24.4	3.37	7.13	-126	n/a	9.4	10
16:45					24.5	3.37	7.13	-129	n/a	9.35	7 170 ml/min flow
16:48					24.5	3.37	7.14	-127	n/a	9.40	6
16:53					24.6	3.38	7.15	-120	n/a	9.40	4 sampled

Meter Calibration

Meter Number: X

Parameter	Date & Time Calibrated	Calibration Results
pH	X	pH 4: X ; pH 7: ____ ; pH 10: ____ (ATC)
Conductivity	X	____ µS/cm fluid reads ____ (ATC)
Redox Pot.	X	+231 mv Zoebell solution reads X

See Calibration Sheet

Split, Blank, Duplicate, & Filtered Samples

Sample ID	Description

Miscellaneous

Depth to Water: 9.40 ft

Turbidity: ____ NTUs

Dis. Oxygen: ____ ppm

Pump Rate: 170 ml/min

____ min, ____ sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

TD 41.63

Depth of pump - 11.5'

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site: TCY Project No.: SW307

Monitoring Well: ~~MW~~ B120-MW4 Sampling Date: 9/1/06

Sample ID: B120-mw-4 Sampler: D. Shippen / J. Rhachol-

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	DO mg/L	Appearance of Water NTU
11.28					28.3	4.05	7.34	78	5.8	78
11.35					27.6	6.81	7.37	~~277~~	6.3	27
11.40					27.3	6.73	7.38	17	6.20	14
11.45					27.2	7.39	7.07	-66	6.15	11
11.50					27.3	6.87	7.40	-82	6.08	10
11:55					27.3	~~7.40~~ 6.8	7.40	-85	6.05	9 * 6.80
12:00					27.3	6.68	7.40	-97	6.04	9 Sample

Meter Calibration

Meter Number: ~~1~~

Parameter	Date & Time Calibrated See Calibration Sheet	Calibration Results
pH	~~9~~	pH 4: ~~9~~ ; pH 7: ; pH 10: (ATC)
Conductivity	~~9~~	~~9~~ µS/cm fluid reads (ATC)
Redox Pot.	~~9~~	+231 mv Zoebell solution reads ~~9~~

Split, Blank, Duplicate, & Filtered Samples

Sample ID	Description

Miscellaneous

Depth to Water: ft

Turbidity: NTUs

Dis. Oxygen: ppm

Pump Rate: 250 mL/min

1 min, sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

TD - 14.2 pump installed at 9'

H2O level prior to starting pu

GeoSyntec Consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site: IDY Project No.: SC0307

Monitoring Well: B120- MW5 Sampling Date: 9/1/06

Sample ID: B120-mw5 Sampler: DSkipper, JRinehart

Time	Start Purge	Readings	Start Samp.	End Samp.	Temperature (°C)	Conductivity (µS/cm) (ATC)	pH (ATC)	Redox Potential (± mv)	D.O.	D.T.W.	Turbidity Appearance of Water
14:31					29.2	3.93	7.39	140	n/a	6.10	15
14:34					29.2	2.49	7.51	128	n/a	6.20	13
14:37					29.2	2.42	7.45	113	n/a	6.40	14
14:40					29.1	2.41	7.42	95	n/a	6.40	9 250 flow rate
14:45					29.0	2.45	7.41	76	n/a	6.40	12
14:50					28.9	2.45	7.41	71	n/a	6.40	13
14:55					28.7	2.45	7.42	58	n/a	6.40	14 Sample

Meter Calibration

Meter Number: X

Parameter	Date & Time Calibrated	Calibration Results
pH	See calibration sheet	pH 4: X ; pH 7: ____ ; pH 10: ____ (ATC)
Conductivity	X	X µS/cm fluid reads ____ (ATC)
Redox Pot.	X	+231 mv Zoebell solution reads ____

Split, Blank, Duplicate, & Filtered Samples

Sample ID	Description

Miscellaneous

Depth to Water: 5.96 ft

Turbidity: ____ NTUs

Dis. Oxygen: ____ ppm

Pump Rate: 180 ml

1 min, ____ sec.

Weather:

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

TD. 14.90 ft bgs

sample at 14:50

pump at 9'

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name: TJX	Depth to Water Prior to Purging: 6.45 ' bgs
Project Number: SC0307	Depth to Water: 6.53
Monitoring Well ID: SD120-MW1	Total Depth: 14.5 ' bgs
Sampling Date: 1/9/07	Pump Depth: 13.5' bgs
Sampler(s) JRinehart / C Leider	Pump Rate: 200 ml/min

Time	Dissolved Oxygen (DO) g/L	Turbidity (NTU)	Specific Conductance (µS/cm)	Eh (ORP) mV	pH (ATC)	Temperature (°C)	Comments
9:22	19.99	2	6.24	-27	7.10	19.7	Begin Purging
9:26	19.99	2	6.24	-28	7.15	19.7	400 ml/min
9:39	19.98	2	6.23	-27	7.10	19.7	200 ml min
9:44	19.99	1	6.50	-32	7.11	19.7	6.68 DTW
9:49	19.99	1	6.74	-34	7.11	19.8	6.98
9:54	19.99	1	6.95	-36	7.11	19.8	6.98
9:59	19.98	1	7.00	-37	7.11	19.8	6.98 sampled

Comments

about 3.5 gallons of purge water

took sample at 9:59

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name: TDY	Depth to Water Prior to Purging: 6.57
Project Number: SC0307	Depth to Water:
Monitoring Well ID: BLDI20-MW-2	Total Depth: 13.6
Sampling Date: 1/9/07	Pump Depth: 12.6
Sampler(s) J Rinehart & C. Leider	Pump Rate: 190 ml/min

Time	Dissolved Oxygen (DO) mV	Turbidity (NTU)	Specific Conductance (µS/cm)	Eh (ORP) mV	pH (ATC)	Temperature (°C)	Comments
14:40							Began purging
14:54	—	284	1.97	130	7.31	22.1	DTW 6.57
15:01	—	110	1.94	121	7.31	22.1	DTW 6.70
15:06	—	100	1.91	115	7.31	22.1	DTW 6.70
15:11	—	40	1.90	111	7.32	22.1	DTW 6.67
15:16	—	51	1.89	109	7.31	22.1	DTW 6.67
15:21	—	49	1.89	107	7.31	22.1	DTW 6.70
15:26	—	39	1.88	105	7.31	22.1	DTW 6.70
15:31	—	27	1.87	103	7.30	22.1	DTW 6.70
15:36	—	23	1.86	101	7.30	22.1	DTW 6.70
15:41	—	21	1.86	99	7.30	22.1	DTW 6.70

Comments

Took Sample at 15:41
Total volume purged about 3-3.5 gallons of water

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name: TOY	Depth to Water Prior to Purging: 6.58
Project Number: SC0307	Depth to Water: 7.18
Monitoring Well ID: Bld 20 - MW-3	Total Depth: 14.34
Sampling Date: 1/9/07	Pump Depth: 13.34
Sampler(s) J Pinehart Chris Leider	Pump Rate: 220 ml/min

Time	Dissolved Oxygen (DO)	Turbidity (NTU)	Specific Conductance (µS/cm)	Eh (ORP)	pH (ATC)	Temperature (°C)	Comments
16:40							Begin Purging
16:43	—	7	5.75	49	7.33	21.8	DTW 7.60
16:48	—	4	5.40	49	7.36	21.8	DTW 7.05
16:53	—	4	5.26	50	7.37	21.7	DTW 7.15
16:57	—	3	5.27	49	7.37	21.7	changed rate to 170 ml/min DTW 7.16
17:01	—	2	5.28	47	7.36	21.7	DTW 7.18
17:04	—		5.30	48	7.36	21.7	DTW 7.18
							Sampled

Comments

Took sample at 17:04

Total volume of water purged 2.5 - 3.0 gallons

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name:	TDY	Depth to Water Prior to Purging:	5.13
Project Number:	SC0307	Depth to Water:	5.81
Monitoring Well ID:	BLDI20-MW-4	Total Depth:	14.28
Sampling Date:	1/10/07	Pump Depth:	19.28
Sampler(s)	J Rinehart + C Leider	Pump Rate:	160

Time	Dissolved Oxygen (DO) mg/L	Turbidity (NTU)	Specific Conductance m (µS/cm)	Eh (ORP) mV	pH (ATC)	Temperature (°C)	Comments
9:32							Begin purging
9:43							DTW 5.73
9:46	4.07	642	4.34	-37	7.67	23.0	DTW 5.71
9:50	0.78	280	4.16	-43	7.71	23.19	DTW 5.71
9:54	0.26	176	4.12	-52	7.73	23.18	DTW 5.79
10:01	0.13	141	4.08	-61	7.77	23.20	DTW 5.79
10:07	0.04	112	4.07	-70	7.79	23.26	DTW 5.79
10:12	0.00	111	4.07	-76	7.81	23.27	DTW 5.79
10:17	0.00	104	4.05	-88	7.83	23.27	DTW 5.79
10:23	0.00	68	4.01	-92	7.85	23.30	DTW 5.80
10:30	0.00	53	3.99	-99	7.86	23.30	DTW 5.80
10:35	0.00	45.2	3.97	-103	7.87	23.30	DTW 5.81
10:40	0.00	40.3	3.97	-109	7.88	23.35	DTW 5.81
10:47	0.00	35.9	3.96	-116	7.89	23.35	DTW 5.81
10:53	0.00	28.0	3.96	-121	7.90	23.34	DTW 5.81
10:58	0.00	27.0	3.95	-126	7.91	23.35	DTW 5.81
11:03	0.00	22.0	3.93	-130	7.92	23.40	DTW 5.81
11:07	0.00	18.3	3.93	-133	7.93	23.37	DTW 5.81
							took sample.

Comments

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name:	TDY	Depth to Water Prior to Purging:	6.00
Project Number:	SC0307	Depth to Water:	6.35
Monitoring Well ID:	BLD120-MW-5	Total Depth:	14.91
Sampling Date:	1/10/07	Pump Depth:	13.91
Sampler(s)	JRinehart + C. Leider	Pump Rate:	225 ml/min

Time	Dissolved Oxygen (DO)	Turbidity (NTU)	Specific Conductance m (µS/cm)	Eh (ORP) mV	pH (ATC)	Temperature (°C)	Comments
12:10							Began purging
12:17							DTW 6.21
12:24	2.51	112	1.75	5	7.65	24.68	DTW 6.28
12:28	2.16	94.7	1.75	8	7.66	24.68	DTW 6.28
12:32	2.01	64.8	1.76	10	7.68	24.66	DTW 6.30
12:37	5.00	51.7	1.77	14	7.70	24.70	DTW 6.30
12:43	1.19	44.8	1.79	10	7.72	24.69	DTW 6.30
12:50	1.10	—	1.81	-6	7.74	24.73	DTW 6.30
12:55	1.10	—	1.84	-16	7.76	24.71	DTW 6.30
13:00	1.16	—	1.85	-22	7.77	24.71	DTW 6.30
13:05	0.92	35.6	1.86	-27	7.77	24.70	DTW 6.30
13:10	0.70	30.8	1.87	-30	7.80	24.82	DTW 6.30
13:14	0.43	28.8	1.87	-30	7.81	24.88	DTW 6.34
13:18	0.41	27.0	1.87	-29	7.81	24.82	DTW 6.33
13:22	0.36	30.1	1.87	-28	7.82	24.78	DTW 6.33
13:28	0.34	36.4	1.87	-28	7.82	24.67	DTW 6.35
13:32	0.26	32.4	1.87	-28	7.83	24.68	DTW 6.35
13:36	0.30	36.9	1.87	-28	7.82	24.67	DTW 6.35
							Took sample

Comments

Turbidity meter was recalibrated at 12:50 due to the fact the meter was turning off due to low batteries. Batteries were changed

total volume of water purged ~ 3 gal - 4 gal.

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name:	TDY	Depth to Water Prior to Purging:	6.45
Project Number:	SC0307	Depth to Water:	
Monitoring Well ID:	BLD120-MW-6	Total Depth:	14.55
Sampling Date:	11/9/07	Pump Depth:	13.55
Sampler(s)	J Rinehart & C Leider	Pump Rate:	200 ml/min

Time	Dissolved Oxygen (DO) g/L	Turbidity (NTU)	Specific Conductance (µS/cm)	Eh (ORP) mV	pH (ATC)	Temperature (°C)	Comments
11:19	–	–	–	–	–	–	Began Purging
11:25	–	147	2.73	42	7.25	22.3	6.70 DTW
11:30	–	102	2.38	34	7.25	22.3	6.71
11:35	–	65	2.31	23	7.23	22.3	6.72
11:41	–	34	2.46	3	7.22	22.4	6.71
11:46	–	30	2.55	-8	7.22	22.4	6.73
11:52	–	27	2.74	-22	7.22	22.4	6.73
11:57	–	25	2.92	-31	7.22	22.4	6.75
12:01	–	24	3.06	-38	7.22	22.4	6.76
12:04	–	24	3.16	-43	7.22	22.5	6.76 sampled

Comments

Sampled at 12:04

3 gal purge water

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name: TDY	Depth to Water Prior to Purging: 6.60
Project Number: SC0307	Depth to Water: ~~6.60~~ TR2 6.60
Monitoring Well ID: BLD102-MW-4	Total Depth: 17.65'
Sampling Date: 1/10/07	Pump Depth: 16.65'
Sampler(s) JRivenart & C Leider	Pump Rate: 225 ml/min

Time	Dissolved Oxygen (DO) g/L	Turbidity (NTU)	Specific Conductance M (µS/cm)	Eh (ORP) mV	pH (ATC)	Temperature (°C)	Comments
14:46							Began purging.
14:53	2.84	15.9	1.19	47	7.48	21.94	DTW 6.60' bgs
14:57	0.97	14.8	1.19	31	7.46	21.87	DTW 6.60' bgs
15:01	0.88	12.8	1.19	22	7.47	21.96	DTW 6.60' bgs
15:05	0.80	12.2	1.19	16	7.48	21.94	DTW 6.60' bgs
15:09	0.70	8.65	1.19	10	7.49	22.00	DTW 6.60' bgs took sample.

Comments

Total volume purged 1 gallon water
took sample at 15:09

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name: TDY	Depth to Water Prior to Purging: 7.00
Project Number: SC0307	Depth to Water:
Monitoring Well ID: MWCL-1	Total Depth: 42.2
Sampling Date: 1/10/07	Pump Depth: 41.2
Sampler(s) J Rinehart + C. Leider	Pump Rate: 150 ml/min

Time	Dissolved Oxygen (DO) g/L	Turbidity (NTU)	Specific Conductance m(µS/cm)	Eh (ORP) mV	pH (ATC)	Temperature (°C)	Comments
16:35							Began Purging
16:44	1.78	1000	43.0	-111	7.32	21.83	DTW 7.10
16:48	0.45	651	42.9	-112	7.31	21.81	DTW 7.10
16:52	0.00	372	42.9	-115	7.31	21.83	DTW 7.10
16:56	0.00	203	42.8	-117	7.31	21.82	DTW 7.13
17:00	0.00	123	42.7	-120	7.31	21.78	DTW 7.13
17:04	0.00	89.8	42.6	-121	7.31	21.78	DTW 7.13
17:08	0.00	67.1	42.6	-123	7.32	21.79	DTW 7.13
17:12	0.00	52.7	42.5	-125	7.32	21.78	DTW 7.13
17:16	0.00	46.9	42.4	-127	7.32	21.79	DTW 7.13
17:20	0.00	39.1	42.4	-128	7.32	21.80	DTW 7.13
17:24	0.00	36.8	42.4	-129	7.32	21.83	DTW 7.13
17:28	0.00	33.3	42.3	-130	7.32	21.82	DTW 7.15
17:32	0.00	29.3	42.3	-131	7.32	21.77	DTW 7.15

Comments:

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name: TDY	Depth to Water Prior to Purging: 6.92
Project Number: SC0307	Depth to Water:
Monitoring Well ID: MWLL-2	Total Depth: 13.6
Sampling Date: 1/11/07	Pump Depth: 12.6
Sampler(s) J Rinehart & C Leider	Pump Rate: 240 ml/min

Time	Dissolved Oxygen (DO)	Turbidity (NTU)	Specific Conductance (µS/cm)	Eh (ORP)	pH (ATC)	Temperature (°C)	Comments
8:45							Began Purging
8:50	0.00	45.0	15.3	-121	7.44	22.26	DTW 7.11
8:54	0.00	30.9	15.1	-122	7.50	23.31	DTW 7.11
8:58	0.00	25.1	14.9	-123	7.54	22.35	DTW 7.11
9:02	0.00	16.3	14.8	-124	7.56	22.38	DTW 7.11
9:06	0.00	11.2	14.8	-126	7.57	22.48	DTW 7.11
9:10	0.00	9.73	14.9	-128	7.58	22.39	DTW 7.11
							sample taken 9:10

Comments

total volume purged 2 gall.
sampled at 9:10

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name:	TDI	Depth to Water Prior to Purging:	8.91
Project Number:	SC0309	Depth to Water:	
Monitoring Well ID:	MW(L-3	Total Depth:	43.12
Sampling Date:	1/11/07	Pump Depth:	42.12
Sampler(s)	J Rinehart + C Leider	Pump Rate:	165

Time	Dissolved Oxygen (DO) mg/L	Turbidity (NTU)	Specific Conductance m(µS/cm)	Eh (ORP) mV	pH (ATC)	Temperature (°C)	Comments
11:28							Began purging
11:38	0.09	322	70.7	-132	7.22	21.91	DTW 10.35
11:42	0.00	105	70.7	-137	7.21	21.96	DTW 10.35
11:49	0.00	59.6	70.7	-138	7.20	21.98	DTW 10.79
11:58	0.00	42.9	70.8	-137	7.20	21.84	DTW 10.79
12:01	0.00	36.5	70.7	-137	7.20	21.95	DTW 10.98
12:06	0.00	33.8	70.8	-137	7.20	21.89	DTW 11.10
12:10	0.00	26.9	70.8	-139	7.20	21.83	DTW 11.10
12:14	0.00	27.3	70.8	-136	7.20	21.84	DTW 11.10
12:18	0.00	23.7	71.0	-139	7.20	21.78	DTW 11.20
12:22	0.00	22.6	70.9	-139	7.21	21.77	DTW 11.20
12:26	0.00	19.9	70.9	-140	7.21	21.78	DTW 11.20
12:30	0.00	21.5	71.0	-140	7.21	21.79	DTW 11.20 Took sample

Comments

Took sample at 12:30

About 4 gallons of purge water

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name:	TDY	Depth to Water Prior to Purging:	8.01
Project Number:	SC0307	Depth to Water:	8.18
Monitoring Well ID:	MWCL-4	Total Depth:	14.10
Sampling Date:	1/11/07	Pump Depth:	13.10
Sampler(s)	JRinehart C Lieder	Pump Rate:	230 ml/min

Time	Dissolved Oxygen (DO)	Turbidity (NTU)	Specific Conductance (mS/cm)	Eh (ORP)	pH (ATC)	Temperature (°C)	Comments
13:33							Begin purging
13:45	0.04	64.9	1.45	-83	7.52	22.17	DTW 8.18
13:49	0.00	29.6	1.45	-92	7.51	22.24	DTW 8.18
13:53	0.00	23.60	1.44	-97	7.49	22.33	DTW 8.18
13:57	0.00	14.2	1.43	-101	7.49	22.31	DTW 8.18
14:00	0.00	9.51	1.43	-102	7.48	22.34	DTW 8.18
14:03	0.00	7.59	1.43	-103	7.47	22.32	DTW 8.18
							took sample

Comments

About 15 gallons of purge water
took sample at 14:03

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name: TDI	Depth to Water Prior to Purging: 10.35
Project Number: SC0307	Depth to Water: 23.45 @ time of Sampling
Monitoring Well ID: MWCL-5	Total Depth: 42.3
Sampling Date: 1/12/06	Pump Depth: 41.3
Sampler(s) Chris Lieder, Regan Gray	Pump Rate: —

Time	Dissolved Oxygen (DO)	Turbidity (NTU)	Specific Conductance (µS/cm)	Eh (ORP)	pH (ATC)	Temperature (°C)	Comments

Comments

Last sampling event well was deemed a slow recovery well.
1 Bore hole volume will be purged and well sampled in 2 hours.
Well completely purged @ 12:55
well recharge to 23.45 @ time of sampling
collect sample @ 14:57 pH @ time of sample = 7.15

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name:	TDY	Depth to Water Prior to Purging:	10.15
Project Number:	SC0307	Depth to Water:	
Monitoring Well ID:	MWCL-6	Total Depth:	14.85
Sampling Date:	1/11/07	Pump Depth:	13.85
Sampler(s)	J Rinehart & C Licder	Pump Rate:	200

Time	Dissolved Oxygen (DO) mg/L	Turbidity (NTU)	Specific Conductance m (µS/cm)	Eh (ORP) mV	pH (ATC)	Temperature (°C)	Comments
15:04							Began Purging
15:12	1.72	54.7	3.68	-42	7.36	20.20	DTW 10.17
15:18	1.37	20.2	3.66	-54	7.48	20.39	10.17
15:24	0.79	12.7	3.64	-69	7.54	20.46	10.17
15:29	0.09	7.17	3.62	-79	7.57	20.46	10.17
15:34	0.00	6.08	3.57	-88	7.58	20.46	10.17
							sampled

Comments

Sample taken at 15:39

Total volume of water purged 3 gallons

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name:	TDY	Depth to Water Prior to Purging:	9,8
Project Number:	S10307	Depth to Water:	[redacted]
Monitoring Well ID:	MWCL-7	Total Depth:	65,00'
Sampling Date:	1/12/07	Pump Depth:	64,00'
Sampler(s)	Chris Lieder, Ryan Gray	Pump Rate:	250 ml/minute

Time	Dissolved Oxygen (DO)	Turbidity (NTU)	Specific Conductance (µS/cm)	Eh (ORP)	pH (ATC)	Temperature (°C)	Comments
9:23	0,11	>1000	77,6	-46	6,69	21,11	DTW - 9,95
9:26	0,05	>1000	78,0	-47	6,71	21,23	DTW - 9,95
9:29	0,00	771	78,3	-48	6,73	21,24	DTW - 9,95
9:32	0,00	673	78,4	-48	6,74	21,16	DTW - 9,95
9:35	0,00	501	78,4	-48	6,74	21,31	DTW - 9,95
9:38	0,00	422	78,6	-48	6,74	21,16	DTW - 9,95
9:41	0,00	332	78,6	-48	6,74	21,23	DTW - [redacted] 9,95
9:44	0,00	258	78,6	-48	6,75	21,39	DTW - 9,97
9:47	0,00	218	78,7	-48	6,75	21,39	DTW - 9,99
9:50	0,00	202	78,7	-48	6,75	21,24	DTW - 9,99
9:53	0,00	149	78,7	-48	6,75	21,37	DTW - 10,00
9:56	0,00	122	78,8	-48	6,75	21,48	DTW - 10,00
9:59	0,00	80,7	78,8	-48	6,75	21,47	DTW - 10,00
10:02	0,00	63,6	78,8	-47	6,75	21,44	DTW - 10,00
10:05	0,00	61,4	78,8	-47	6,75	21,43	DTW - 10,00
10:08	0,00	57,5	78,8	-47	6,75	21,45	DTW - 10,00
10:11	0,00	46,0	78,8	-47	6,75	21,44	DTW - 10,00
10:14	0,00	48,2	78,8	-47	6,75	21,46	DTW - 10,00
10:17	0,00	49,1	78,8	-47	6,75	21,47	DTW - 10,00

Comments

Flow was 250 ml/min. Readings stabilized to within established Criteria.

Geosyntec consultants

Ground Water Sampling Measurements for Low-Flow Purging

Site Name: TDY	Depth to Water Prior to Purging: 8.55
Project Number: SC0307	Depth to Water:
Monitoring Well ID: MWCL-8	Total Depth: 12'
Sampling Date: 1/12/07	Pump Depth: 11'
Sampler(s) Chris Lieder, Logan Gray	Pump Rate: via Bailer 3 BVs removed. Bore hole volume = 0.5 gallons.

Time	Dissolved Oxygen (DO)	Turbidity (NTU)	Specific Conductance (µS/cm)	Eh (ORP)	pH (ATC)	Temperature (°C)	Comments
16:40			5.77		6.88		

Comments

1" prepacked screen well. Sampled well by bailing 3 Bore hole volumes (0.5 gallons/BV). Will check pH & Cond before taking sample. Collect sample MWCL-8 @ 16:40

APPENDIX C

LABORATORY ANALYTICAL REPORTS

Columbia Analytical Services INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

6925 Canoga Ave. • Canoga Park, CA 91303 • (818) 587-5550 • 800-695-7222 x02 • FAX (818) 587-5555

PAGE 1 OF _____

CAS Contact

Project Name: TDY	Project Number: 500307
Project Manager: B. HITCHENS	Report CC:
Company/Address: 12275 Rancho Bernardo Rd, Suite 200 San Diego, CA 92127	
Phone #: 1-858-674-6559	FAX#:
Sampler's Signature:	Sampler's Printed Name: D. STRAHAN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: HCl | HCl | HNO3

NUMBER OF CONTAINERS

- TPH Gas 8015m (purgeable)
- TPH Diesel 8015m (extractable) X Fuel Chain
- BTEX ☐ MTBE ☐ 8021 / 602
- Halogenated Volatiles 8260
- VOA by GCMS ☐ Oxygenates ☐ 8260 / 624
- SemiVOA by GCMS 8270 / 625
- Pesticides ☐ PCBs ☐ 8081 / 8082 / 608
- CCR Metals (17) 6010 / 6020 / 7000 / 200.7 / 200.8
- TPH Extended Carbon Chain
- CHROMIUM VI
- DISSOLVED CHROMIUM
- REMARKS/ ALTERNATE DESCRIPTION

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	TPH Gas	TPH Diesel	BTEX	Halogenated Volatiles	VOA by GCMS	SemiVOA by GCMS	Pesticides	CCR Metals (17)	TPH Extended Carbon Chain	CHROMIUM VI	DISSOLVED CHROMIUM
T-49-5.5B	1	4/13/06	9:55	Soil				X							
T-49GW-11	2		10:20	H2O									X	X	X
T-47-6T	3		12:50	Soil				X							
T-47GW-11	4		11:50	H2O									X	X	X
T-48-6B	5		13:55	Soil				X							
T-48GW-11	6		14:35	H2O									X	X	X
T-48GW-35	7	↓	15:25	H2O									X	X	X

SPECIAL INSTRUCTIONS/COMMENTS

→ NOTE HOLDING TIME ON CHROMIUM VI SAMPLES

→ DISSOLVED CHROMIUM FIELD FILTERED

See QAPP → SOIL SAMPLES MUST BE SAMPLED FROM 11" X 11"

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

PLEASE CIRCLE WORK DAYS

1 2 3 4

✓ STANDARD

REQUESTED FAX DATE_____

REQUESTED REPORT DATE_____

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

MRL ____Yes ____No

PQL/MDL/J ____Yes ____No

Edata ____ Yes ____No

INVOICE INFORMATION

PO#

BILL TO:

Lab No: 10600641

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: D. Strahan	Signature: NIKKO BUENAVENTURA	Signature: NIKKO BUENAVENTURA	Signature: Lonnie Kukita	Signature	Signature
Printed Name: DAVID STRAHAN	Printed Name: CAS	Printed Name: CAS	Printed Name: CAS	Printed Name	Printed Name
Firm: GEOSYNTEC	Firm: 4/13/06 1800	Firm: 4/14/06 1400	Firm: 4/14/06 1400	Firm	Firm
Date/Time: 4/13/06 18:00	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0603-15

SAMPLE RECEIPT FORM

Service Request No: L0600641 Client: GEOSYNTEC

Sample(s) delivered by: Client ____ CAS Emp ✓ After Hours ____ DHL____

Golden State Overnight ____ Fed X ____ UPS ____ Other Courier ____

Chain of Custody filled out accurately? Yes ✓ No ____(See Comments)

Appropriate sample volume and containers? Yes ✓ No ____(See Comments)

Sufficient labeling on container(s) ? Yes ✓ No ____(See Comments)

Container(s) supplied by CAS? Yes ✓ No ____(See Comments)

Custody seal(s) intact? N/A ✓ Yes ____ No ____(See Comments)

Trip Blank(s) received Yes ____ No ____

If Trip Blank was supplied by CAS, record serial # _____-TB-_____

Temperature of sample(s)/cooler 3 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes ____ No ____ Filled Properly? Yes ____ No ____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes ____ Appropriate Preservation? Yes____ No____

RUSH Turn around time? Yes ____ Notified _____Date & Time_____

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl____	D.O____	Flash____	Diss S2-____	Ferrous Fe____
24HR	pH_____	Odor____	Cr+6____		
48HR	BOD____	Color____	MBAS____	Nitrate____	
	Nitrite____	O-PO4____	Sett Sol____	Turbidity____	
72HR	Vapors____				

Notified _____ Date & Time_____

Container(s) received and their preservative(s):

-1,-3,-5 = 1-SOIL SLEEVE
-2,-4,-6,-7 = 3-40ml VOA (HCL)
1-500ml PI (HNO3)
1-125ml PI (NP)

Comments _____

LK 4/14/06 1555 4/14/06

Initials Date Time

Calscience
Environmental
Laboratories, Inc.

April 21, 2006

Ed Wilson
Columbia Analytical Services, Inc.
6925 Canoga Avenue
Canoga Park, CA 91303

Subject: **Calscience Work Order No.: 06-04-0831**
Client Reference: TDY / SC0307

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/14/2006 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Amanda Porter

Calscience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager

Calscience Environmental Laboratories, Inc.

Work Order Case Narrative

Project Name: **TDY / SC0307**
Calscience Work Order Number: **06-04-0831**

1. Hexavalent Chromium:

The chain of custody requested that Hexavalent Chromium be analyzed by method EPA 7199. However, due to the samples having a high conductivity, method EPA 7196A was used to achieve the lowest reporting limit and to complete the analysis within the recommended holding time.

Calscience Environmental Laboratories, Inc.

Analytical Report

Columbia Analytical Services, Inc.
6925 Canoga Avenue
Canoga Park, CA 91303

Date Received: 04/14/06
Work Order No: 06-04-0831

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix
T-49 GW-11	**06-04-0831-1**	**04/13/06**	**Aqueous**

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	280	10	2.0	500		mg/L	N/A	04/14/06	EPA 7196A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
T-47 GW-11	**06-04-0831-2**	**04/13/06**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent (1)	ND	0.020	0.0040	1		mg/L	N/A	04/14/06	EPA 7196A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
T-48 GW-11	**06-04-0831-3**	**04/13/06**	**Aqueous**

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	580	20	4.0	1000		mg/L	N/A	04/14/06	EPA 7196A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
T-48 GW-35	**06-04-0831-4**	**04/13/06**	**Aqueous**

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	0.16	0.02	0.0040	1		mg/L	N/A	04/14/06	EPA 7196A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent (1)	ND	0.020	0.0040	1		mg/L	N/A	04/14/06	EPA 7196A

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Columbia Analytical Services, Inc.
6925 Canoga Avenue
Canoga Park, CA 91303

Date Received: N/A
Work Order No: 06-04-0831

Project: TDY / SC0307

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	EPA 7196A	T-47 GW-11	04/14/06	N/A	99	99	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Columbia Analytical Services, Inc.
6925 Canoga Avenue
Canoga Park, CA 91303

Date Received: N/A
Work Order No: 06-04-0831

Project: TDY / SC0307

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Chromium, Hexavalent	EPA 7196A	099-05-064-1,435	04/14/06	N/A	0.50	0.51	103	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 06-04-0831

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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An Employee-Owned Company
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

6925 Canoga Ave. • Canoga Park, CA 91303 • (818) 587-5650 • 800-695-7222 x02 • FAX (818) 587-5555

PAGE 1 OF 1

CAS Contact 0831

Project Name: TDY	Project Number: SC0307
Project Manager: ED WILSON	Report CC:
Company/Address: CAS	
Phone #	FAX#
Sampler's Signature	Sampler's Printed Name

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

TPH Gas 8015m (purgeable) / TPH Diesel ☐ Fuel Char. ☐ 8015m (extractable) / BTEX ☐ MTBE ☐ 8021 / 602 / Halogenated Volatiles 8260 / VOA by GCMS ☐ Oxygenates ☐ 8260 / 624 / SemiVOA by GCMS 8270 / 625 / Pesticides ☐ PCBs ☐ 8081 / 8082 / 608 / CCR Metals (17) 6010/6020/7000/7000/7000/7470/7471 / Cr6+ 7199

ORIGINAL

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	Cr6+ 7199
T-49 GW-11		4/13/06	1000	WATER	1	X
T-47 GW-11		↓	1150	↓	1	X
T-48 GW-11		↓	1435	↓	1	X
T-48 GW-35		↓	1525	↓	1	X

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
PLEASE CIRCLE WORK DAYS
1 2 3 4
✓ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
✓ IV. Data Validation Report with Raw Data
MRL ___ Yes ✓ No
PQL/MCL/J ✓ Yes ___ No
Edata ___ Yes ___ No

INVOICE INFORMATION
PO# L0600641
BILL TO:
Lab No: 10600641

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: [signature]	Signature: [signature]	Signature	Signature	Signature	Signature
Printed Name: NILKO RIVENBARK	Printed Name: N. CRUISE	Printed Name	Printed Name	Printed Name	Printed Name
Firm: CAS	Firm: CALSCIENCE	Firm	Firm	Firm	Firm
Date/Time: 4/14/06 0844	Date/Time: 4/14/06 0844	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCGC-0600-15

04/14/2006 08:41 8185875555 CAS CANOGA PARK PAGE 01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 04 - 0831

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: CAS DATE: 04/14/2006

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
4.3 °C IR thermometer.
_____ Ambient temperature.

Initial: NC

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: NC

COMMENTS:

CAS CSR #L0600641

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2665 Park Center Drive, Suite D Simi Valley, California 96065 (805) 526-7161 (805) 526-7270 fax

Columbia Analytical Services INC.
An Employee - Owned Company

May 15, 2006

Brian Hitchens
GeoSyntec Consultants
11305 Rancho Bernardo Road, Suite 101
San Diego, CA 92127

RE: TDY/Project #SC0307

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on April 13, 2006. The samples were sent out for partial analysis to our Redding facility and Calscience Environmental Laboratories, Inc. Please find their reports attached. For your reference, these analyses have been assigned our service request number L0600641.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. The soil samples were analyzed at our Redding lab. Their report is attached. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 189 pages plus the attachment.

Columbia Analytical Services is certified for environmental analyses by the NELAP (certificate number: 02115CA) and Los Angeles County Laboratory ID (No. 10151).

The Canoga Park facility has moved from the 6925 Canoga Ave. address. We are currently receiving samples at 8030 Remmet Ave., Suite 2 Canoga Park, CA 91304 until the new facility at 2655A Park Center Dr. Simi Valley, CA 93065 has been completed.

If you have any questions, please call me at (818) 587-5550.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wilson
Project Chemist

EW/sa

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 1 OF 1

CAS Contact

Project Name: TDY	Project Number: 500307
Project Manager: B. HITCHENS	Report CC:
Company/Address: 1275 Rancho Bernardo Rd, Ste 230, San Diego, CA 92127	
Phone #: 1-858-674-6559	FAX#:
Sampler's Signature:	Sampler's Printed Name: D. SHARMAN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1 | 1 | 1 | 1 HNO3

NUMBER OF CONTAINERS

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	TPH Gas 8015m (purgeable)	TPH Diesel 8015m (extractable) ☒ Fuel Chain	BTEX ☐ MTBE ☐ 8021 / 602	Halogenated Volatiles 8260	VOA by GCMS ☐ Oxygenates ☐ 8260 / 624	SemiVOA by GCMS 8270 / 625	Pesticides ☐ PCBs ☐ 8081 / 8082 / 608	CCR Metals (17) 6010 / 6020 / 7000 / 200.7 / 200.8 Extended Chain	TPH Carbon Chain	CHROMIUM VI	DISSOLVED CHROMIUM	REMARKS/ ALTERNATE DESCRIPTION
T-49-5.5B	1	4/13/06	9:55	Soil		X										
T-49GW-11	2		10:00	H2O								X	X	X		
T-47-6T	3		12:50	Soil		X										
T-47GW-11	4		11:50	H2O								X	X	X		
T-48-6B	5		13:55	Soil		X										
T-48GW-11	6		14:35	H2O								X	X	X		
T-48GW-35	7		15:25	H2O								X	X	X		

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

* NOTE HOLDING TIME ON CHROMIUM VI SAMPLES

DISSOLVED CHROMIUM FIELD FILTERED

See QAPP * SOIL SAMPLES MUST BE SAMPLED FROM 11 X 11

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

PLEASE CIRCLE WORK DAYS: 1 2 3 4

✓ STANDARD

REQUESTED FAX DATE_____

REQUESTED REPORT DATE_____

REPORT REQUIREMENTS

_____ I. Results Only

_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

_____ III. Results + QC and Calibration Summaries

_____ IV. Data Validation Report with Raw Data

MRL ___Yes ___No

PQL/MDL/J _____Yes _____No

Edata ___Yes ___No

INVOICE INFORMATION

PO#

BILL TO:

Lab No: 10600641

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: D. Sharman	Signature: Nikki Buenaseta	Signature: Nikki Buenaseta	Signature: Lonnie Fukita	Signature:	Signature:
Printed Name: DAVID SHARMAN	Printed Name: CAS	Printed Name: CAS	Printed Name: CAS	Printed Name:	Printed Name:
Firm: GEOSYNTEC	Firm:	Firm:	Firm:	Firm:	Firm:
Date/Time: 4/13/06 18:00	Date/Time: 4/13/06 1800	Date/Time: 4/14/06 1400	Date/Time: 4/14/06 1400	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0603-15

Columbia Analytical Services, Inc.
Chain of Custody Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600641

Bottle ID	Date	Time	Sample Location / User	Disposed On
L0600641-001.01	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-WALK / FCHATMAN	
	04/17/2006	0950	Custodian / CPHAM	
	04/17/2006	1017	In Lab / MMCCULLOUGH	
	04/18/2006	0906	D-WALK / CPHAM	
	04/25/2006	0845	Custodian / FCHATMAN	
	04/25/2006	0906	In Lab / MMCCULLOUGH	
	04/25/2006	1113	D-WALK / FCHATMAN	
	05/02/2006	1154	Custodian / CPHAM	
	05/02/2006	1321	In Lab / CCALLAWAY	
	05/02/2006	1623	D-WALK / FCHATMAN	
L0600641-002.01	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
	04/20/2006	0920	Custodian / CPHAM	
	04/20/2006	0947	In Lab / CCALLAWAY	
	04/20/2006	1711	D-WALK / FCHATMAN	
L0600641-002.02	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
	04/20/2006	0920	Custodian / CPHAM	
	04/20/2006	0947	In Lab / CCALLAWAY	
	04/20/2006	1711	D-WALK / FCHATMAN	
L0600641-002.03	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
L0600641-002.32	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-WALK / FCHATMAN	
	04/18/2006	1127	Custodian / CPHAM	
	04/18/2006	1341	In Lab / LMAZUL	
	04/18/2006	1706	D-WALK / CPHAM	
L0600641-002.33	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1645	SUBBED-OUT / SANDERSON	
	04/14/2006	1743	SUBBED-OUT / LKUKITA	
L0600641-003.01	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	3SUBBED / SANDERSON	

Columbia Analytical Services, Inc.
Chain of Custody Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600641

Bottle ID	Date	Time	Sample Location / User	Disposed On
L0600641-003.01	04/15/2006	1200	D-WALK / FCHATMAN	
	04/17/2006	0950	Custodian / CPHAM	
	04/17/2006	1017	In Lab / MMCCULLOUGH	
	04/18/2006	0906	D-WALK / CPHAM	
	04/25/2006	0845	Custodian / FCHATMAN	
	04/25/2006	0906	In Lab / MMCCULLOUGH	
	04/25/2006	1114	D-WALK / FCHATMAN	
	05/02/2006	1154	Custodian / CPHAM	
	05/02/2006	1321	In Lab / CCALLAWAY	
	05/02/2006	1623	D-WALK / FCHATMAN	
L0600641-004.01	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
	04/20/2006	0920	Custodian / CPHAM	
	04/20/2006	0947	In Lab / CCALLAWAY	
	04/20/2006	1711	D-WALK / FCHATMAN	
L0600641-004.02	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
	04/20/2006	0920	Custodian / CPHAM	
	04/20/2006	0947	In Lab / CCALLAWAY	
	04/20/2006	1711	D-WALK / FCHATMAN	
L0600641-004.03	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
L0600641-004.32	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-WALK / FCHATMAN	
	04/18/2006	1127	Custodian / CPHAM	
	04/18/2006	1341	In Lab / LMAZUL	
	04/18/2006	1706	D-WALK / CPHAM	
L0600641-004.33	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1645	SUBBED-OUT / SANDERSON	
	04/14/2006	1743	SUBBED-OUT / LKUKITA	
L0600641-005.01	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-WALK / FCHATMAN	
	04/17/2006	0950	Custodian / CPHAM	

Columbia Analytical Services, Inc.
Chain of Custody Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600641

Bottle ID	Date	Time	Sample Location / User	Disposed On
L0600641-005.01	04/17/2006	1017	In Lab / MMCCULLOUGH	
	04/18/2006	0906	D-WALK / CPHAM	
	04/25/2006	0845	Custodian / FCHATMAN	
	04/25/2006	0906	In Lab / MMCCULLOUGH	
	04/25/2006	1114	D-WALK / FCHATMAN	
	05/02/2006	1154	Custodian / CPHAM	
	05/02/2006	1321	In Lab / CCALLAWAY	
	05/02/2006	1623	D-WALK / FCHATMAN	
L0600641-006.01	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
	04/20/2006	0920	Custodian / CPHAM	
	04/20/2006	0947	In Lab / CCALLAWAY	
	04/20/2006	1711	D-WALK / FCHATMAN	
L0600641-006.02	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
	04/20/2006	0920	Custodian / CPHAM	
	04/20/2006	0947	In Lab / CCALLAWAY	
	04/20/2006	1711	D-WALK / FCHATMAN	
L0600641-006.03	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
L0600641-006.32	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-WALK / FCHATMAN	
	04/18/2006	1127	Custodian / CPHAM	
	04/18/2006	1341	In Lab / LMAZUL	
	04/18/2006	1706	D-WALK / CPHAM	
L0600641-006.33	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1645	SUBBED-OUT / SANDERSON	
	04/14/2006	1743	SUBBED-OUT / LKUKITA	
L0600641-007.01	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1201	D-REACH / FCHATMAN	
	04/20/2006	1513	In Lab / CCALLAWAY	
	04/20/2006	1711	D-WALK / FCHATMAN	

Columbia Analytical Services, Inc.
Chain of Custody Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600641

Bottle ID	Date	Time	Sample Location / User	Disposed On
L0600641-007.02	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
	04/20/2006	0920	Custodian / CPHAM	
	04/20/2006	0947	In Lab / CCALLAWAY	
	04/20/2006	1711	D-WALK / FCHATMAN	
L0600641-007.03	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-REACH / FCHATMAN	
	04/20/2006	0920	Custodian / CPHAM	
	04/20/2006	0947	In Lab / CCALLAWAY	
	04/20/2006	1711	D-WALK / FCHATMAN	
L0600641-007.32	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1646	SUBBED / SANDERSON	
	04/15/2006	1200	D-WALK / FCHATMAN	
	04/18/2006	1127	Custodian / CPHAM	
	04/18/2006	1341	In Lab / LMAZUL	
	04/18/2006	1706	D-WALK / CPHAM	
L0600641-007.33	04/14/2006	0908	SMO / SANDERSON	
	04/14/2006	1645	SUBBED-OUT / SANDERSON	
	04/14/2006	1743	SUBBED-OUT / LKUKITA	

SAMPLE RECEIPT FORM

Service Request No: L0600641 Client: GEOSYNTEC

Sample(s) delivered by: Client ____ CAS Emp ✓ After Hours ____ DHL ____

Golden State Overnight ____ Fed X ____ UPS ____ Other Courier ____

Chain of Custody filled out accurately? Yes ✓ No ____(See Comments)

Appropriate sample volume and containers? Yes ✓ No ____(See Comments)

Sufficient labeling on container(s) ? Yes ✓ No ____(See Comments)

Container(s) supplied by CAS? Yes ✓ No ____(See Comments)

Custody seal(s) intact? N/A ✓ Yes ____ No ____(See Comments)

Trip Blank(s) received Yes ____ No ____

If Trip Blank was supplied by CAS, record serial # ____-TB-____

Temperature of sample(s)/cooler 3 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes ____ No ____ Filled Properly? Yes ____ No ____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes ____ Appropriate Preservation? Yes____ No____

RUSH Turn around time? Yes ____ Notified ____ Date & Time____

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl____	D.O____	Flash____	Diss S2-____	Ferrous Fe____
24HR	pH____	Odor____	Cr+6____		
48HR	BOD____	Color____	MBAS____	Nitrate____	
	Nitrite____	O-PO4____	Sett Sol____	Turbidity____	
72HR	Vapors____				

Notified ____ Date & Time____

Container(s) received and their preservative(s):

-1,-3,-5 = 1-SOIL SLEEVE
-2,-4,-6,-7 = 3-40ml VOA (HCL)
1-500ml PL (HNO3)
1-125ml PL (NP)

Comments ____

7

LK 4/14/06 1555 4/14/06

INORGANIC SAMPLE PRESERVATIVE CHECKLIST

USING A TRANSFER PIPET, EXTRACT A FEW DROPS FROM EACH SAMPLE CONTAINER WHICH REQUIRES A PRESERVATIVE.
RECORD THE pH OF EVERY PRESERVED CONTAINER RECEIVED FOR EACH SAMPLE.
IF pH IS OUT OF RANGE, NOTIFY PC AND RECORD ADJUSTMENT AND FINAL pH READING.

JOB #: ~~L050~~ L0600641 CLIENT NAME: GEOSYNTEC

PC NOTIFIED Y / N sample ID	GLASS BOTTLES ← PLASTIC BOTTLES →									GLASS OR PLASTIC		
	H2SO4 <2				HNO3 <2	NaOH >12		OTHER		H2SO4 <2		
	O & G	TOTAL PHENOLS	TRPH	COD NH3	METALS	CN	SULFIDE			TOC, TOX NO3/NO2 TKN	T.PHOS	
2-320					<2							
4-320					<2							
6-320					<2							
7-320					<2							

Comments:

LOT /REFFERENCE #s:

Initials, Date, Time LK 4/14/06 1515

r:\sr_forms\inspckl.xls
Rev. Date: 8/7/02

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 ph (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

May 15, 2006

Columbia Analytical Services, Inc.
ATTN: Ed Wilson
6925 Canoga Avenue
Canoga Park, CA. 91303-3102

RE: TDY

Dear Ed:

Enclosed are the results of the samples submitted to our laboratory on April 13, 2006. For your reference, these analyses have been assigned our service request number L0600641.

All analyses were performed according to our Laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

If you have any questions, please call me at (530) 244-5269.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Sellers for:

Douglas Burnett
Laboratory Manager

TABLE OF CONTENTS

CAS Service Request: L0600641
CAS Tier Level: IV

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12	METALS
69	GC FUEL SCAN

Current CAS Redding Accreditation Program s

Federal and National Programs

- U.S Air Force, Air Force Center for Environmental Excellence (AFCEE)
  Approved laboratory for Wastewater and Hazardous Waste
- U.S. Army Corps of Engineers – MRD, HTRW Mandatory Center of Expertise
  Validated for Wastewater and Hazardous Waste
- Department of the Navy, Naval Facilities Engineering Service Center (NFESC)
  Approved laboratory for Wastewater and Hazardous Waste

State and Local Programs

- State of Arizona, Department of Health Services
  Approved laboratory for Hazardous Waste
  Lab ID# AZ0604
- State of Arkansas, Department of Environmental Quality
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# None
- State of California, Department of Health Services, National Environmental Laboratory Accreditation Program (NELAP)
  Approved laboratory for Drinking Water, Wastewater and Hazardous Waste
  Lab ID# 01105CA
  - Los Angeles County Sanitation District
    Approved laboratory for Wastewater
    Lab ID# 10243
- State of Florida, Department of Health (NELAP)
  Approved Environmental Testing Laboratory for Wastewater and Hazardous Waste
  Lab ID# E87203
- State of Kansas, Department of Health and Environment (NELAP)
  Approved laboratory for Hazardous Waste
  Lab ID# E-10323
- State of Massachusetts, Department of Environmental Protection
  Approved laboratory for Drinking Water, Wastewater
  Lab ID# M-CA025
- State of Oklahoma, Department of Environmental Quality
  Approved laboratory for General Water Quality/Sludge Testing
  Lab ID# 9952
- State of Oregon, Department of Human Resources, Health Division (ORELAP)
  Approved laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID# CA200004
- State of Utah, Department of Health, Division of Laboratory Services (NELAP)
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# QUAL1
- State of Washington, Department of Ecology, Environmental Laboratory Accreditation Program
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# C037
- State of Wisconsin, Department of Ecology
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# 999767340

Organic Department Qualifiers

Organic Sample ID Qualifiers

A This qualifier indicates that a TIC is a suspected aldol-condensation product

B Used when the analyte is found in the associated blank as well as the sample, indicating possible blank contamination. The data user should evaluate these compounds and their amounts carefully.

C The "C" flag indicates the presence of this compound has been confirmed by the GC/MS analysis.

D This qualifier is used for all the compounds identified in an analysis at a secondary dilution factor. "D" qualifiers are used only for the samples reported at more than one dilution factor.

E This flag indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at the appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

I The qualifier indicates that the reporting limit to the "I" qualifier has been raised. It is used when the chromatographic interference prohibits detection of a compound at a level below the concentration expressed on the Form I.

J Indicates an estimated value. It is used when the data indicates the presence of a target compound below the reporting limit or the presence of a Tentatively Identified Compound (TIC).

N This qualifier indicates presumptive evidence of a compound. This flag is only used for Tentatively Identified Compounds (TIC), where the identification is based on a mass spectral library research. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

P This qualifier is used for target analytes when there is a greater than 40% difference for detected concentrations between the two columns or detectors. The concentration value is reported on Form I and flagged with a "P".

U Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustments when indicated.

Z Indicates an estimated value between the method detection limit and zero.

Organic Sample ID Qualifiers

These qualifiers may be appended to the Lab Sample ID and/or the Client Sample ID for organic analysis.

DL Diluted reanalysis. Indicates that the results were determined in an analysis of a secondary dilution of a sample or extract. A digit to indicate multiple dilutions of the sample or extract may follow the "DL" suffix. The results of more than one diluted reanalysis may be reported.

MS Matrix spike (may be followed by a digit to indicate multiple matrix spikes within a sample set).

MSD Matrix spike duplicate (may be followed by a digit as noted above in the MS explanation).

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. If followed by a digit, indicates multiple reanalysis of the sample at the same dilution.

RE Re-extraction analysis. The sample was re-extracted and reanalyzed. May be followed by a digit to indicate multiple re-extracted analysis of the same sample at the same dilution.

Inorganic Data Qualifiers
Cations

C (Concentration) Qualifier:

B – The reported value obtained was less than the CRDL, but greater than or equal to the MDL/IDL.

U – The value was less than the MDL/IDL or was not detected.

Q Qualifier:

E – The reported value is estimate because of interference.

M – Duplicate injection precision was not met. (Two analyses of the sample did not agree).

N – Spiked sample recovery not within control limits.

S – The reported value was determined by the Method of Standard Additions (MSA).

J – Post digestion spike for Graphite Furnace AA analyses is out of control limits (85% - 115%), while sample absorbance is less than 50% of spike absorbance.

***** – Duplicate analysis not within control limits.

+ – Correlation coefficient for the MSA is less than 0.995.

M (Method) Qualifier:

P – ICP

A – Flame AA

F – Furnace AA

CV – Cold Vapor

AV – Automated Cold Vapor

NR – Analyte was not required

C – Manual spectrophotometric

RRL (Reliable Reporting Limit):

RRL – The reliable reporting limit was established to qualify analytical results for which no CRDL was Available, or did not apply. The RRL is a concentration approximately four times the Method Detection Limit (MDL).

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600641

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
L0600641-001	T-49-5.5B	04/13/06	09:05
L0600641-002	T-49 GW-11	04/13/06	10:00
L0600641-003	T-47-GT	04/13/06	10:50
L0600641-004	T-47 GW-11	04/13/06	11:50
L0600641-005	T-48-6B	04/13/06	13:55
L0600641-006	T-48 GW-11	04/13/06	14:35
L0600641-007	T-48 GW-35	04/13/06	15:25

CASE NARRATIVE

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	L0600641
Project:	TDY / SC0307	**Date Received:**	4/15/06
Sample Matrix:	Soil & Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV validation deliverables.

Sample Receipt

Three soil and four water samples were received for analysis at Columbia Analytical Services on 4/15/06.

No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Dissolved Metals

Elevated Method Reporting Limits:
Samples T-49 GW-11 and T-48 GW-11 required dilution due to the presence of elevated levels of Chromium. The reporting limits are adjusted to reflect the dilution.

Fuel Scan & Diesel Range Organics by EPA Method 8015B

Holding Time Exceptions:
The sample preparation of sample(s) T-49-5.5B, T-47-GT, T-48-6B was initially performed past the recommended holding time. The samples was initially tracked through the laboratory as per standard operating procedure, but due to miscommunication between the Organic Extraction and GC SVOA departments, the samples were not extracted within holding time. Efforts were made to extract the samples as soon as the error was identified. The data is flagged to indicate the holding time violation on Forms 9 and 11. (NCF# EXT-06002)

Approved by: Karen Sellers 16 **Date:** 5/15/06

CHAIN OF CUSTODY DOCUMENTATION

Intra-Network Chain of Custody

8030 Remmet Ave, Suite 2 • Canoga Park, CA 91304 • 818-587-5550 • FAX 818-587-5555

[redacted]

Project Name: TDY
Project Number: SC0307
Project Manager: Brian Hitchens
Company: GeoSyntec Consultants

Lab Code	Client Sample ID		# of Cont.	Matrix	Sample Date	Sample Time	Date Received	Send To	CA_DRO CA LUFT	METALS_D 6020	SVO_FUELSCAN 8015B	WATER_CONT D 2216
L0600641-001	T-49-5.5B	1	1	Soil	04/13/06	0905	04/13/06	REDDING	IV			IV
L0600641-002	T-49 GW-11	2	4	Water	04/13/06	1000	04/13/06	REDDING		IV	IV	
L0600641-003	T-47-GT	3	1	Soil	04/13/06	1050	04/13/06	REDDING	IV			IV
L0600641-004	T-47 GW-11	4	4	Water	04/13/06	1150	04/13/06	REDDING		IV	IV	
L0600641-005	T-48-6B	5	1	Soil	04/13/06	1355	04/13/06	REDDING	IV			IV
L0600641-006	T-48 GW-11	6	4	Water	04/13/06	1435	04/13/06	REDDING		IV	IV	
L0600641-007	T-48 GW-35	7	4	Water	04/13/06	1525	04/13/06	REDDING		IV	IV	

Test Comments

METALS_D - 6020	L0600641-002,4,6,7	Cr (field filtered) Run QC on one of samples from this project.
SVO_FUELSCAN - 8015B	L0600641-002,4,6,7	Extended Carbon Chain C6-C36 Run QC on one of the samples from this project.
CA_DRO - CA LUFT	L0600641-001,3,5	Report on a dry weight basis. Run QC on one of samples from this batch.

Folder Comments:
Report on a Dry Weight Basis

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
	____ RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 ✓ STANDARD Requested FAX Date: _____ Requested Report Date: 04/27/06	____ I. Results Only ____ II. Results + QC Summaries ____ III. Results + QC and Calibration Summaries ✓ IV. Data Validation Report with Raw Data PQL/MDL/J Y EDD Y GeoSyntec San Diego	PO# L0600641 Bill to

Relinquished By: [illegible] 4/14/06 1650 Received By: J Chatman 4/15/06 1000 Airbill Number: _____

Columbia Analytical Services inc.
An Employee-Owned Company

5090 Caterpillar Road
Redding, CA 96003
Phone: (530) 244-5262

[redacted]

COOLER RECEIPT FORM

Project/Client: _____ Batch

1. Cooler(s)/Sample(s) received on: 4/15/06 Shipped via: GSO

   Shipping Bill # (s): _____ # of Coolers/Packages 1

2. Radiological Screening by: _____ (Acceptable) Rejected

3. Custody seals on outside of cooler: (YES) NO N/A
   If yes, where? Front ✓ Rear _____ Lt Side _____ Rt Side _____

   Seals intact: (YES) NO

COOLER/SAMPLE PROCESSING

4. Sample Processing/Tagging by: [signature]

5. Cooler(s)/Sample(s) Temp's: 2.0°C _____ _____ _____ _____
   (or)
   Temp. Blank (if included): _____ _____ _____ _____ _____

6. Type of packing material (circle): (Ice) (Blue Ice) (Bubble Wrap) (Bubble Bags) Zip Locks Webbing
   Other: _____

7. Custody papers properly filled out (ink, signed, dated, released, etc.)? (YES) NO

8. Containers arrived in good condition (not broken, leaking, etc.)? (YES) NO

9. Samples received with adequate holding time remaining to conduct analysis? (YES) NO

10. Container labels complete (i.e. analysis, preservation, date/time, etc.)? (YES) NO

11. Container labels and tags agree with custody papers? (YES) NO

12. Correct types of containers used for the tests indicated? (YES) NO

    a.) Adequate sample received? If not, note on Exception Report. (YES) NO

13. Containers supplied by: CAS (Other)

14. Preserved containers received with the appropriate preservative? (YES) NO N/A
    pH: ## METALS <2 pH VOAS PRES PER DOCS (or) See pH log.

15. VOA vials free of air bubbles? YES NO (N/A)

16. Trip Blank preparation date: _____ CAS Other (N/A)

17. Volatile Soil samples: Encores or Plugs in Vials
    Freezer or GC/MS Date: _____ Time: _____ (N/A)

See Exception Report for discrepancies.

Rev. 8/18/2004/ds

Metals

Sample Results

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	04/13/2006
Sample Matrix:	Water	**Date Received:**	04/13/2006

Trace Metals

Sample Name: T-49 GW-11
Lab Code: L0600641-002
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	MDL	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Chromium	FLDFLT	SW6020	250	1000	1000	04/18/2006	05/04/2006	216000	

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	04/13/2006
Sample Matrix:	Water	**Date Received:**	04/13/2006

Trace Metals

Sample Name: T-47 GW-11
Lab Code: L0600641-004
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	MDL	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Chromium	FLDFLT	SW6020	0.250	1.0	1	04/18/2006	05/01/2006	3.4	

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	04/13/2006
Sample Matrix:	Water	**Date Received:**	04/13/2006

Trace Metals

Sample Name: T-48 GW-11
Lab Code: L0600641-006
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	MDL	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Chromium	FLDFLT	SW6020	250	1000	1000	04/18/2006	05/04/2006	665000	

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	04/13/2006
Sample Matrix:	Water	**Date Received:**	04/13/2006

Trace Metals

Sample Name: T-48 GW-35
Lab Code: L0600641-007
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	MDL	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Chromium	FLDFLT	SW6020	0.250	1.0	1	04/18/2006	05/01/2006	12.0	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QA Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Trace Metals

Sample Name: Method Blank
Lab Code: PBW-0418
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	MDL	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Chromium	FLDFLT	SW6020	0.250	1.000	1	04/18/2006	05/01/2006	0.461	B

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	04/13/2006
Sample Matrix:	Water	**Date Received:**	04/13/2006
		Date Extracted:	04/18/2006
		Date Analyzed:	05/01/2006

Trace Metals

MS Sample Name:	T-48 GW-35MS	DMS Sample	T-48 GW-35MSD
Lab Code:	L0600641-007MS / L0600641-007MSD	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Sample Result	Spike Result MS	Spike Result DMS	Spike % Rec MS	Spike % Rec DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Chromium	FLDFLT	SW6020	1.00	20.0	12.30	26.10	25.80	69.0	67.5	66-118	1	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Extracted: 04/18/2006
Date Analyzed: 05/01/2006

Trace Metals

LCS Sample Name: Lab Control Sample
Lab Code: LCSW-0418
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Chromium	FLDFLT	SW6020	1.000	20.0	21.600	108	80-120	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Extracted: 04/18/2006
Date Analyzed: 05/01/2006

Trace Metals

LCS Sample Name: Lab Control Sample
Lab Code: LCSDW-0418
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Chromium	FLDFLT	SW6020	1.000	20.0	21.100	106	80-120	

QC Summary

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GeoSyntec Consultants **SDG No.:** L0600641

Contract: TDY **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: IV

Continuing Calibration Source: IV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Chromium	9.8	10.0	98	90.0 - 110.0	MS	5/1/2006	09:56	050106Q
CCV1	Chromium	19.2	20.0	96	90.0 - 110.0	MS	5/1/2006	10:40	050106Q
CCV2	Chromium	19.4	20.0	97	90.0 - 110.0	MS	5/1/2006	11:09	050106Q
ICV1	Chromium	9.3	10.0	93	90.0 - 110.0	MS	5/4/2006	11:03	050406
CCV1	Chromium	18.4	20.0	92	90.0 - 110.0	MS	5/4/2006	12:01	050406
CCV2	Chromium	18.6	20.0	93	90.0 - 110.0	MS	5/4/2006	12:31	050406

METALS

- 2b -

CRDL STANDARD FOR AA & ICP

Client: GeoSyntec Consultants **SDG No.:** L0600641

Contract: TDY **Lab Code:** RDD **Case No.:** **SAS No.:**

AA CRDL Standard Source:

ICP CRDL Standard Source: Spex

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
RLS	Chromium	0.97	1.0	97	50 - 150	MS	5/1/2006	10:08	050106Q
RLS	Chromium	0.89	1.0	89	50 - 150	MS	5/4/2006	11:15	050406

METALS

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GeoSyntec Consultants **SDG No.:** L0600641

Contract: TDY **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1	Chromium	0.25	+/-1.00	U	0.25	1.00	MS	5/1/2006	10:04	050106Q
CCB1	Chromium	0.25	+/-1.00	U	0.25	1.00	MS	5/1/2006	10:47	050106Q
CCB2	Chromium	0.25	+/-1.00	U	0.25	1.00	MS	5/1/2006	11:16	050106Q
ICB1	Chromium	0.25	+/-1.00	U	0.25	1.00	MS	5/4/2006	11:11	050406
CCB1	Chromium	0.25	+/-1.00	U	0.25	1.00	MS	5/4/2006	12:08	050406
CCB2	Chromium	0.25	+/-1.00	U	0.25	1.00	MS	5/4/2006	12:38	050406

METALS

- 4 -

INTERFERENCE CHECK SAMPLE

Client: GeoSyntec Consultants SDG No.: L0600641

Contract: TDY Lab Code: RDD Case No.: SAS No.:

ICS Source: IV Instrument ID: ELAN 9000

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICSA								
	Chromium	0.0				5/1/2006	10:14	050106Q
ICSAB								
	Chromium	20.5	20.0	102	80 - 120%	5/1/2006	10:19	050106Q
ICSA								
	Chromium	4.9				5/4/2006	11:21	050406
ICSAB								
	Chromium	18.9	20.0	94	80 - 120%	5/4/2006	11:32	050406

METALS
- 5b -
POST DIGEST SPIKE SUMMARY

Client: GeoSyntec Consultants **SDG No.:** L0600641

Contract: TDY **Lab Code:** RDD **Case No.:** **SAS No.:**

Matrix: WATER **Level:** LOW **Client ID:** T-48 GW-35A

Sample ID: L0600641-007 **Spiked ID:** L0600641-007A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Chromium	ug/L	75 - 125	23.90		12.32		10.0	116		MS

METALS
- 13 -
SAMPLE PREPARATION SUMMARY

Client: GeoSyntec Consultants **SDG No.:** L0600641

Contract: TDY **Lab Code:** RDD **Method:** MS

Case No.: _____ **SAS No.:** _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ICPMSW1						
PBW	PBW	MB	WATER	4/18/06	50.0	50.0	
LCSW	LCSW	LCS	WATER	4/18/06	50.0	50.0	
LCSWD	LCSWD	LCSD	WATER	4/18/06	50.0	50.0	
L0600641-004	T-47 GW-11	SAM	WATER	4/18/06	50.0	50.0	
L0600641-007	T-48 GW-35	SAM	WATER	4/18/06	50.0	50.0	
L0600641-007S	T-48 GW-35S	MS	WATER	4/18/06	50.0	50.0	
L0600641-007SD	T-48 GW-35SD	MSD	WATER	4/18/06	50.0	50.0	
L0600641-002	T-49 GW-11	SAM	WATER	4/18/06	50.0	50.0	
L0600641-006	T-48 GW-11	SAM	WATER	4/18/06	50.0	50.0	

METALS

14

ANALYSIS RUN LOG

Client: GeoSyntec Consultants Contract: TDY

Lab Code: RDD Case No.: SAS No.: SDG No.: L0600641

Instrument ID Number: ELAN 9000 Method: MS Run Number: 050106Q

Start Date: 5/1/2006 End Date: 5/1/2006

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	0948									X															
Standard 1	1.00	0951									X															
ICV1	1.00	0956									X															
ICB1	1.00	1004									X															
RLS	1.00	1008									X															
ICSA	1.00	1014									X															
ICSAB	1.00	1019									X															
PBW	1.00	1029									X															
LCSW	1.00	1031									X															
LCSWD	1.00	1033									X															
CCV1	1.00	1040									X															
CCB1	1.00	1047									X															
T-47 GW-11	1.00	1052									X															
T-48 GW-35	1.00	1057									X															
T-48 GW-35L	5.00	1059									X															
T-48 GW-35A	1.00	1102									X															
T-48 GW-35S	1.00	1104									X															
T-48 GW-35SD	1.00	1106									X															
CCV2	1.00	1109									X															
CCB2	1.00	1116									X															

METALS

14

ANALYSIS RUN LOG

Client: GeoSyntec Consultants Contract: TDY

Lab Code: RDD Case No.: SAS No.: SDG No.: L0600641

Instrument ID Number: ELAN 9000 Method: MS Run Number: 050406

Start Date: 5/4/2006 End Date: 5/4/2006

EPA Sample No.	D/F	Time	% R	Analytes																									
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
Blank	1.00	1054									X																	
Standard 1	1.00	1058									X																	
ICV1	1.00	1103									X																	
ICB1	1.00	1111									X																	
RLS	1.00	1115									X																	
ICSA	1.00	1121									X																	
ICSAB	1.00	1132									X																	
CCV1	1.00	1201									X																	
CCB1	1.00	1208									X																	
T-49 GW-11	1000.00	1226									X																	
T-48 GW-11	1000.00	1228									X																	
CCV2	1.00	1231									X																	
CCB2	1.00	1238									X																	

Verification of Instrument Parameters

METALS
- 10 -
METHOD DETECTION LIMITS

Client: GeoSyntec Consultants **SDG No.:** L0600641

Contract: TDY **Lab Code:** RDD **Case No.:** **SAS No.:**

Analyte	Mass	MDL ug/L	PQL ug/L
ELAN 9000			**Date:** 11/21/2005
Chromium	52	0.25	1.0

METALS

- 12 -
LINEAR RANGES

Client: GeoSyntec Consultants **SDG No.:** L0600641

Contract: TDY **Lab Code:** RDD **Case No.:** **SAS No.:**

Instrument ID: ELAN 9000 **Date:** 10/7/2005

Analyte	Integration Time (sec)	LDR ug/L
Chromium	10.00	1000

Support Documentation

Method 6020 - Summary Report

Sample ID: Blank

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 09:48:37
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\Blank.011
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	779316.061	2.288				ppb
	Cr	52	12151.451	1.866				ppb
	Ni	60	206.601	3.952				ppb
	Ni	62	574.018	0.838				ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45					
	Cr	52					
	Ni	60					
	Ni	62					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: Standard 1

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 09:51:48
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\Standard 1.012
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	777315.458	2.751	777315.458			ppb
	Cr	52	201799.293	1.970	0.244	25.00000	0.90	ppb
	Ni	60	45988.088	0.518	0.059	25.00000	2.53	ppb
	Ni	62	7428.812	1.764	0.009	25.00000	3.25	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45					
	Cr	52					
	Ni	60					
	Ni	62					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: ICV

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 09:56:40
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\ICV.013
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	771944.235	1.732	771944.235			ppb
	Cr	52	86135.932	0.639	0.096	9.83565	2.54	ppb
	Ni	60	18011.933	0.969	0.023	9.78854	1.49	ppb
	Ni	62	3217.903	1.673	0.003	9.72731	4.16	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		99.1			
	Cr	52	98.4				
	Ni	60	97.9				
	Ni	62	97.3				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: ICB

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:04:56
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\ICB.014
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	785195.988	1.640	785195.988			ppb
	Cr	52	11783.633	1.366	-0.001	-0.05986	25.13	ppb
	Ni	60	206.150	6.971	-0.000	-0.00102	869.14	ppb
	Ni	62	592.242	5.121	0.000	0.05159	275.72	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		100.8			
	Cr	52					
	Ni	60					
	Ni	62					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
ICB	Ni	62	ICB is out of limits (± 3* IDL or ± MDL)

5-1-06

Method 6020 - Summary Report

Sample ID: RLS

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:08:52
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\RLS.015
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	787304.544	1.385	787304.544			ppb
	Cr	52	19761.680	1.208	0.010	0.97400	0.99	ppb
	Ni	60	1124.693	2.287	0.001	0.49380	4.40	ppb
	Ni	62	750.031	1.563	0.000	0.61290	12.88	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		101.0			
	Cr	52	97.4				
	Ni	60	98.8				
	Ni	62	122.6				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: ICSA

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:14:44
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\ICSA.016
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	761493.786	1.074	761493.786			ppb
	Cr	52	12050.204	0.897	0.000	0.02382	55.18	ppb
	Ni	60	110.935	17.250	-0.000	-0.05063	21.50	ppb
	Ni	62	1142.516	3.268	0.001	2.16315	4.45	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		97.7			
	Cr	52					
	Ni	60					
	Ni	62					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: ICSAB

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:19:38
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\ICSAB.017
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	769354.896	1.813	769354.896			ppb
	Cr	52	166145.635	1.605	0.200	20.52872	2.50	ppb
	Ni	60	36409.242	1.453	0.047	19.96680	0.40	ppb
	Ni	62	6545.023	2.363	0.008	22.01603	2.51	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		98.7			
	Cr	52	102.6				
	Ni	60	99.8				
	Ni	62	110.1				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: WTWSICPMS0418BLK1

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:29:24
Sample Type: Sample
Sample Description: 6020 WATERS
Number of Replicates: 3
Batch ID: 042906
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\WTWSICPMS0418BLK1.019
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	769701.037	0.350	769701.037			ppb
	Cr	52	15468.261	1.027	0.005	0.46141	5.50	ppb
	Ni	60	277.548	2.774	0.000	0.04051	9.49	ppb
	Ni	62	530.904	5.628	-0.000	-0.13279	78.94	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		98.8			
	Cr	52					
	Ni	60					
	Ni	62					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ni 62 RSD	Ni	62	Replicate RSD >20%

5-1-06

Method 6020 - Summary Report

Sample ID: LWICPMS0418LCS1

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:31:38
Sample Type: Spike - 1 of 2
Sample Description: 6020 WATERS
Number of Replicates: 3
Batch ID: 042906
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\LWICPMS0418LCS1.020
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	757423.274	1.502	757423.274			ppb
	Cr	52	171775.526	1.643	0.211	21.63535	1.57	ppb
	Ni	60	39475.664	0.559	0.052	22.00243	1.25	ppb
	Ni	62	6357.111	1.501	0.008	21.69040	0.04	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		97.2			
	Cr	52			108.2		
	Ni	60			110.0		
	Ni	62			108.5		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ni 62 RSD	Ni	62	Replicate RSD >20%

Four
Blk
5-1-06

Method 6020 - Summary Report

Sample ID: LWICPMS0418LCSD1

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:33:52
Sample Type: Spike - 1 of 2
Sample Description: 6020 WATERS
Number of Replicates: 3
Batch ID: 042906
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\LWICPMS0418LCSD1.021
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	762907.755	1.452	762907.755			ppb
	Cr	52	168987.084	1.616	0.206	21.09236	0.40	ppb
	Ni	60	38766.028	0.543	0.051	21.44820	0.95	ppb
	Ni	62	6310.857	1.728	0.008	21.34817	1.33	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		97.9			
	Cr	52			105.5		
	Ni	60			107.2		
	Ni	62			106.7		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ni 62 RSD	Ni	62	Replicate RSD >20%

For Blk
5-7-06

Method 6020 - Summary Report

Sample ID: CCV

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:40:34
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\CCV.022
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	815848.190	1.306	815848.190			ppb
	Cr	52	165726.904	1.329	0.188	19.21157	1.05	ppb
	Ni	60	36961.718	1.473	0.045	19.10956	1.17	ppb
	Ni	62	5980.856	1.600	0.007	18.68288	2.02	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		104.7			
	Cr	52	96.1				
	Ni	60	95.5				
	Ni	62	93.4				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: CCB

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:47:31
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\CCB.023
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	819945.697	1.839	819945.697			ppb
	Cr	52	11454.103	2.343	-0.002	-0.16628	11.83	ppb
	Ni	60	195.642	4.073	-0.000	-0.01126	23.32	ppb
	Ni	62	501.125	5.995	-0.000	-0.35404	36.03	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		105.2			
	Cr	52					
	Ni	60					
	Ni	62					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
CCB	Cr	52	CCB is out of limits (± 3* IDL or ± MDL)

5-1-06

Method 6020 - Summary Report

Sample ID: WSL0600641-004

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:52:58
Sample Type: Sample
Sample Description: 6020 WATERS
Number of Replicates: 3
Batch ID: 042906
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\WSL0600641-004.025
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	716332.412	1.437	716332.412			ppb
	Cr	52	34668.989	8.830	0.033	3.36333	14.28	ppb
	Ni	60	7431.083	1.537	0.010	4.28884	0.65	ppb
	Ni	62	14861.523	7.986	0.020	56.69216	8.25	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		91.9			
	Cr	52					
	Ni	60					
	Ni	62					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: WSL0600641-007

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:57:41
Sample Type: Sample
Sample Description: 6020 WATERS
Number of Replicates: 3
Batch ID: 042906
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\WSL0600641-007.027
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	475000.029	0.880	475000.029			ppb
	Cr	52	64504.794	2.423	0.120	12.31566	3.53	ppb
	Ni	60	4188.999	3.601	0.009	3.62981	4.30	ppb
	Ni	62	50456.873	9.250	0.106	298.96386	9.88	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		61.0			
	Cr	52					
	Ni	60					
	Ni	62					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: WSL0600641-007L

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 10:59:55
Sample Type: Dilution - DF:1 of 8
Sample Description: 6020 WATERS DF5
Number of Replicates: 3
Batch ID: 042906
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\WSL0600641-007L.028
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL): 1.00
Diluted To Volume (mL): 5.00

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	725566.960	2.484	725566.960			ppb
	Cr	52	36177.174	0.130	0.034	17.56137	3.45	ppb
	Ni	60	1671.864	3.846	0.002	4.32505	2.40	ppb
	Ni	62	45917.167	4.632	0.063	887.02548	7.20	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		93.1			
	Cr	52				42.6	
	Ni	60				19.2	
	Ni	62				196.7	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Cr 52 Dilution	Cr	52	Dilution Percent Difference > 10% ("E" Flag)
Ni 60 Dilution	Ni	60	Dilution Percent Difference > 10% ("E" Flag)
Ni 62 Dilution	Ni	62	Dilution Percent Difference > 10% ("E" Flag)

5-1-06

Method 6020 - Summary Report

Sample ID: WSL0600641-007A

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 11:02:09
Sample Type: Spike - 2 of 8
Sample Description: 6020 WATERS
Number of Replicates: 3
Batch ID: 042906
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\WSL0600641-007A.029
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	477125.141	0.507	477125.141			ppb
	Cr	52	118777.816	0.516	0.233	23.90408	0.84	ppb
	Ni	60	19955.764	2.290	0.042	17.63244	2.15	ppb
	Ni	62	79779.965	9.017	0.166	471.62927	9.09	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		61.2			
	Cr	52			60.4		
	Ni	60			72.9		
	Ni	62			899.3		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Cr 52 Spike	Cr	52	Spike recovery is out of limits ("N" Flag)
Ni 62 Spike	Ni	62	Spike recovery is out of limits ("N" Flag)

5-1-06

Method 6020 - Summary Report

Sample ID: WSL0600641-007MS

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 11:04:23
Sample Type: Spike - 1 of 8
Sample Description: 6020 WATERS
Number of Replicates: 3
Batch ID: 042906
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\WSL0600641-007MS.030
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	457183.275	0.568	457183.275			ppb
	Cr	52	123783.705	0.305	0.255	26.13781	0.36	ppb
	Ni	60	21712.803	0.479	0.047	20.03734	0.18	ppb
	Ni	62	124465.314	8.665	0.272	769.39858	9.16	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		58.7			
	Cr	52			69.1		
	Ni	60			82.0		
	Ni	62			2352.2		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Cr 52 Spike	Cr	52	Spike recovery is out of limits ("N" Flag OK
Ni 62 Spike	Ni	62	Spike recovery is out of limits ("N" Flag NR

5-1-06

Method 6020 - Summary Report

Sample ID: WSL0600641-007MSD

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 11:06:38
Sample Type: Spike - 1 of 8
Sample Description: 6020 WATERS
Number of Replicates: 3
Batch ID: 042906
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\WSL0600641-007MSD.031
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	463359.686	1.278	463359.686			ppb
	Cr	52	123716.169	0.907	0.251	25.75374	0.41	ppb
	Ni	60	21549.926	1.188	0.046	19.62001	0.71	ppb
	Ni	62	145021.397	8.104	0.312	885.25084	9.40	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		59.5			
	Cr	52			67.2		
	Ni	60			80.0		
	Ni	62			2931.4		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Cr 52 Spike	Cr	52	Spike recovery is out of limits ("N" Flag) OK
Ni 62 Spike	Ni	62	Spike recovery is out of limits ("N" Flag) NL

5-406

Method 6020 - Summary Report

Sample ID: CCV

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 11:09:16
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\CCV.032
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	924947.776	1.114	924947.776			ppb
	Cr	52	189206.264	1.438	0.189	19.35668	0.80	ppb
	Ni	60	39604.355	0.808	0.043	18.05642	1.88	ppb
	Ni	62	50735.177	4.843	0.054	153.30890	4.87	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		118.7			
	Cr	52	96.8				
	Ni	60	90.3				
	Ni	62	766.5				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
CCV	Ni	62	CCV is out of limits (±10%)

5-1-06

Method 6020 - Summary Report

Sample ID: CCB

User Name: dmetcalf
Sample Date/Time: Monday, May 01, 2006 11:16:12
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050106.mth
Dataset File: C:\elandata\Dataset\May 06\050106\CCB.033
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	895742.633	2.344	895742.633			ppb
	Cr	52	15962.224	1.016	0.002	0.22860	12.14	ppb
	Ni	60	247.510	7.711	0.000	0.00466	136.49	ppb
	Ni	62	18792.101	4.931	0.020	57.41410	7.57	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		114.9			
	Cr	52					
	Ni	60					
	Ni	62					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
CCB	Cr	52	CCB is out of limits (± 3* IDL or ± MDL)
CCB	Ni	62	CCB is out of limits (± 3* IDL or ± MDL)

5-1-06

Method 6020 - Summary Report

Sample ID: Blank

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 10:54:49
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\Blank.018
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	673093.594	1.092				ppb
	Cr	52	13103.437	0.622				ppb
	Ni	60	42.505	7.457				ppb
	Ni	62	160.668	5.183				ppb
	Cu	63	156.001	11.617				ppb
	Cu	65	81.111	8.789				ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45					
	Cr	52					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: Standard 1

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 10:58:09
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\Standard 1.019
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	675479.933	0.792	675479.933			ppb
	Cr	52	181372.618	0.904	0.249	25.00000	1.83	ppb
	Ni	60	41889.845	0.304	0.062	25.00000	0.82	ppb
	Ni	62	6389.801	1.678	0.009	25.00000	1.17	ppb
	Cu	63	95069.181	0.207	0.141	25.00000	0.78	ppb
	Cu	65	45701.709	1.173	0.068	25.00000	1.11	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45					
	Cr	52					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: ICV

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 11:03:10
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\ICV.020
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	664085.019	0.402	664085.019			ppb
	Cr	52	74289.206	0.814	0.092	9.27451	0.58	ppb
	Ni	60	15760.108	0.783	0.024	9.55126	1.19	ppb
	Ni	62	2449.219	1.900	0.003	9.35225	1.86	ppb
	Cu	63	34963.552	0.601	0.052	9.32606	0.99	ppb
	Cu	65	16555.728	0.553	0.025	9.18354	0.56	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		98.7			
	Cr	52	92.7				
	Ni	60	95.5				
	Ni	62	93.5				
	Cu	63	93.3				
	Cu	65	91.8				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: ICB

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 11:11:33
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\ICB.021
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	667228.064	1.252	667228.064			ppb
	Cr	52	13063.602	0.293	0.000	0.01143	262.05	ppb
	Ni	60	51.490	3.794	0.000	0.00565	14.10	ppb
	Ni	62	168.668	8.560	0.000	0.03827	154.11	ppb
	Cu	63	172.224	12.516	0.000	0.00465	113.22	ppb
	Cu	65	98.001	13.383	0.000	0.00971	69.00	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		99.1			
	Cr	52					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: RLS

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 11:15:39
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\RLS.022
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	677876.760	1.573	677876.760			ppb
	Cr	52	19196.023	0.428	0.009	0.88883	5.23	ppb
	Ni	60	1034.877	0.744	0.001	0.59068	2.15	ppb
	Ni	62	306.005	5.421	0.000	0.57656	10.00	ppb
	Cu	63	2128.694	1.479	0.003	0.51749	1.32	ppb
	Cu	65	1036.948	1.824	0.001	0.52171	2.53	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		100.7			
	Cr	52	88.9				
	Ni	60	118.1				
	Ni	62	115.3				
	Cu	63	103.5				
	Cu	65	104.3				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: ICSA

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 11:21:41
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\ICSA.023
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	650298.872	0.715	650298.872			ppb
	Cr	52	44708.302	18.584	0.049	4.94834	26.14	ppb
	Ni	60	14862.999	1.759	0.023	9.19822	2.35	ppb
	Ni	62	2884.458	3.407	0.004	11.37752	2.86	ppb
	Cu	63	49687.196	0.596	0.076	13.55342	1.27	ppb
	Cu	65	24031.280	1.259	0.037	13.63525	1.78	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		96.6			
	Cr	52					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: ICSAB

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 11:32:12
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\ICSAB.025
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	635672.718	0.563	635672.718			ppb
	Cr	52	132015.960	1.235	0.188	18.89197	1.35	ppb
	Ni	60	29562.156	1.968	0.046	18.74210	2.47	ppb
	Ni	62	4956.684	0.957	0.008	20.49530	1.47	ppb
	Cu	63	69428.113	0.614	0.109	19.39075	0.60	ppb
	Cu	65	33619.383	0.284	0.053	19.53252	0.38	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		94.4			
	Cr	52	94.5				
	Ni	60	93.7				
	Ni	62	102.5				
	Cu	63	97.0				
	Cu	65	97.7				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: CCV

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 12:01:47
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\CCV.035
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	647644.652	0.457	647644.652			ppb
	Cr	52	131139.787	0.611	0.183	18.37057	0.30	ppb
	Ni	60	29621.445	1.268	0.046	18.43010	0.83	ppb
	Ni	62	4528.683	0.196	0.007	18.31203	0.62	ppb
	Cu	63	66886.268	0.269	0.103	18.33346	0.70	ppb
	Cu	65	32754.235	0.705	0.050	18.67603	0.68	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		96.2			
	Cr	52	91.9				
	Ni	60	92.2				
	Ni	62	91.6				
	Cu	63	91.7				
	Cu	65	93.4				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: CCB

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 12:08:53
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\CCB.036
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	663270.156	2.069	663270.156			ppb
	Cr	52	12789.880	0.786	-0.000	-0.01791	255.93	ppb
	Ni	60	42.070	16.502	0.000	0.00008	4880.33	ppb
	Ni	62	145.334	2.554	-0.000	-0.05279	47.25	ppb
	Cu	63	172.668	1.158	0.000	0.00509	12.40	ppb
	Cu	65	85.778	7.628	0.000	0.00331	131.49	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		98.5			
	Cr	52					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: WSL0600641-002X1000

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 12:26:23
Sample Type: Sample
Sample Description: 6020 WATERS DF1000
Number of Replicates: 3
Batch ID: 050406
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\WSL0600641-002X1000.043
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL): 1.00
Diluted To Volume (mL): 1000.00

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	588816.631	0.889	588816.631			ppb
	Cr	52	1277887.599	0.691	2.151	215896.96123	1.08	ppb
	Ni	60	669.484	1.572	0.001	433.36988	2.30	ppb
	Ni	62	232.892	0.165	0.000	425.25425	2.27	ppb
	Cu	63	6329.981	1.097	0.011	1871.49740	1.39	ppb
	Cu	65	2981.600	1.247	0.005	1829.82387	1.31	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		87.5			
	Cr	52					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: WSL0600641-006X1000

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 12:28:47
Sample Type: Sample
Sample Description: 6020 WATERS DF1000
Number of Replicates: 3
Batch ID: 050406
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\WSL0600641-006X1000.044
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL): 1.00
Diluted To Volume (mL): 1000.00

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	589433.599	1.380	589433.599			ppb
	Cr	52	3917189.919	0.792	6.627	665207.67545	1.80	ppb
	Ni	60	691.599	12.020	0.001	448.24951	13.32	ppb
	Ni	62	221.336	6.439	0.000	371.56565	21.01	ppb
	Cu	63	6044.898	1.568	0.010	1783.72117	2.63	ppb
	Cu	65	2890.237	1.044	0.005	1770.83340	2.47	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		87.6			
	Cr	52					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ni 62 RSD	Ni	62	Replicate RSD >20%

Method 6020 - Summary Report

Sample ID: CCV

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 12:31:35
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\CCV.045
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	640389.286	1.052	640389.286			ppb
	Cr	52	131196.337	1.845	0.185	18.61078	2.15	ppb
	Ni	60	29832.670	0.821	0.047	18.77305	0.26	ppb
	Ni	62	4524.459	0.816	0.007	18.50955	1.06	ppb
	Cu	63	67815.623	1.970	0.106	18.80108	2.32	ppb
	Cu	65	32693.350	0.707	0.051	18.85386	1.03	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		95.1			
	Cr	52	93.1				
	Ni	60	93.9				
	Ni	62	92.5				
	Cu	63	94.0				
	Cu	65	94.3				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: CCB

User Name: dmetcalf
Sample Date/Time: Thursday, May 04, 2006 12:38:42
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\050406.mth
Dataset File: C:\elandata\Dataset\May 06\050406\CCB.046
Sample Prep Volume (mL):
Initial Sample Quantity, Wet (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Units
>	Sc	45	649305.389	0.528	649305.389			ppb
	Cr	52	12707.765	0.770	0.000	0.01041	48.42	ppb
	Ni	60	49.437	17.604	0.000	0.00525	104.46	ppb
	Ni	62	136.223	10.636	-0.000	-0.07822	79.60	ppb
	Cu	63	172.224	7.307	0.000	0.00595	55.07	ppb
	Cu	65	87.334	13.044	0.000	0.00521	129.73	ppb

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc	45		96.5			
	Cr	52					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method:
- [ ] 200.2 - Total Recoverable Metals/200.7/200.8
- [ ] 3005 - Dissolved Metals
- [ ] 3010 - Total Metals/ICP
- [x] 3020 - Total Metals/GFAA/ICP-MS
- [ ] 3050B - Total Metals/ICP/GFAA/ICP-MS
- [ ] CLP - ILM 4.0

METALS DIGESTION LOG

Analysis Lot #: 041806 ICPMS1
Hot Plate Temp: (90 - 95°C)
Mod Block Temp: 91°C (90 - 95°C)

Prepared: JM Date: 04/18/06
Spike Witness: Marquierite 4/18/06
Reviewed:
Received:

Sample Type	Digestion Code	Reference Number	Sample Amount	Final Volume	Acid Conc.	Completed Date	Comments
Water	Dig 7	D060041-2 (.320)	50ml	5ml	2%	04/18/06	
		-4					
		-6					
		-7					
		-7ms					0.5ml xWS[ms spk] 137
		-7msd					
	Dig 2	D060245-1 (.01)					
		D060258-2					
	Dig 7	D060263-16 (.030)					
		D060264-1 (.09)					
		-4					
		-4ms					0.5ml xWS[ms spk] 137
		-4msd					
	Dig 2	D060264-1 (.09)					
		-4					
		-4ms					0.5ml xWS[ms spk] 137
		-4msd					
	Dig 2, 7	WTWSTEPMS041806L1					
		LWPEPMS041806LS1	0.5ml				0.5ml xWS[ms spk] 137
		LWPEPMS041806LSD1					
		D060277-1 (.04)	50ml				

JM 04/18/06

Indexes: 02/01/04

Reagents:	Lot#:	Received:	Opened:
HNO_3	B49053	02/21/06	04/19/06
H_2O_2	45253545	01/07/06	04/05/06

45

GC FUEL SCAN

Sample data

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Soil

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-49-5.5B
Lab Code: L0600641-001

Extraction SW3550
Analysis Method: SW8015

Units: mg/Kg (ppm
Basis: Dry 14% Moisture
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	5.9	12	1	05/02/2006	05/06/2006	DSB10502	
C13 - C22 DRO	ND	U	5.9	12	1	05/02/2006	05/06/2006	DSB10502	
C23 - C32 HRO	13	J	5.9	58	1	05/02/2006	05/06/2006	DSB10502	
Total Petroleum Hydrocarbons	ND	U	21	81	1	05/02/2006	05/06/2006	DSB10502	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	91	50-140	05/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-49 GW-11
Lab Code: L0600641-002

Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	**0.36**	J	0.14	1.0	1	04/20/2006	05/01/2006	DWB10420	
C13 - C22 DRO	ND	U	0.14	1.0	1	04/20/2006	05/01/2006	DWB10420	
C23 - C32 HRO	**0.66**	J	0.14	5.0	1	04/20/2006	05/01/2006	DWB10420	
Total Petroleum Hydrocarbons	**1.0**	J	0.42	7.0	1	04/20/2006	05/01/2006	DWB10420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	130	50-140	05/01/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Soil

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-47-GT
Lab Code: L0600641-003

Extraction SW3550
Analysis Method: SW8015

Units: mg/Kg (ppm
Basis: Dry 18% Moisture
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	6.2	12	1	05/02/2006	05/06/2006	DSB10502	
C13 - C22 DRO	ND	U	6.2	12	1	05/02/2006	05/06/2006	DSB10502	
C23 - C32 HRO	**12**	J	6.2	61	1	05/02/2006	05/06/2006	DSB10502	
Total Petroleum Hydrocarbons	ND	U	22	85	1	05/02/2006	05/06/2006	DSB10502	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	91	50-140	05/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Soil

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-47-GTMS
Lab Code: L0600641-003MS

Extraction SW3550
Analysis Method: SW8015

Units: mg/Kg (ppm
Basis: Dry 18% Moisture
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	6.2	12	1	05/02/2006	05/06/2006	DSB10502	
C13 - C22 DRO	**1280**		6.2	12	1	05/02/2006	05/06/2006	DSB10502	
C23 - C32 HRO	ND	U	6.2	61	1	05/02/2006	05/06/2006	DSB10502	
Total Petroleum Hydrocarbons	ND	U	22	85	1	05/02/2006	05/06/2006	DSB10502	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	85	50-140	05/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Soil

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-47-GTMSD
Lab Code: L0600641-003MSD

Extraction SW3550
Analysis Method: SW8015

Units: mg/Kg (ppm
Basis: Dry 18% Moisture
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	6.2	12	1	05/02/2006	05/06/2006	DSB10502	
C13 - C22 DRO	**1260**		6.2	12	1	05/02/2006	05/06/2006	DSB10502	
C23 - C32 HRO	ND	U	6.2	61	1	05/02/2006	05/06/2006	DSB10502	
Total Petroleum Hydrocarbons	ND	U	22	85	1	05/02/2006	05/06/2006	DSB10502	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	91	50-140	05/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-47 GW-11
Lab Code: L0600641-004

Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	**0.27**	J	0.14	1.0	1	04/20/2006	05/01/2006	DWB10420	
C13 - C22 DRO	ND	U	0.14	1.0	1	04/20/2006	05/01/2006	DWB10420	
C23 - C32 HRO	**0.53**	J	0.14	5.0	1	04/20/2006	05/01/2006	DWB10420	
Total Petroleum Hydrocarbons	**0.80**	J	0.42	7.0	1	04/20/2006	05/01/2006	DWB10420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	127	50-140	05/01/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Soil

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-48-6B
Lab Code: L0600641-005

Extraction SW3550
Analysis Method: SW8015

Units: mg/Kg (ppm
Basis: Dry 17% Moisture
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	**21**		6.1	12	1	05/02/2006	05/06/2006	DSB10502	
C13 - C22 DRO	ND	U	6.1	12	1	05/02/2006	05/06/2006	DSB10502	
C23 - C32 HRO	**200**		6.1	60	1	05/02/2006	05/06/2006	DSB10502	
Total Petroleum Hydrocarbons	**220**		22	84	1	05/02/2006	05/06/2006	DSB10502	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	91	50-140	05/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-48 GW-11
Lab Code: L0600641-006

Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	**0.29**	J	0.14	1.00	1	04/20/2006	05/01/2006	DWB10420	
C13 - C22 DRO	ND	U	0.14	1.00	1	04/20/2006	05/01/2006	DWB10420	
C23 - C32 HRO	**0.40**	J	0.14	5.0	1	04/20/2006	05/01/2006	DWB10420	
Total Petroleum Hydrocarbons	**0.70**	J	0.42	7.0	1	04/20/2006	05/01/2006	DWB10420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	133	50-140	05/01/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-48 GW-35
Lab Code: L0600641-007

Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	**0.29**	J	0.14	1.0	1	04/20/2006	05/01/2006	DWB10420	
C13 - C22 DRO	ND	U	0.14	1.0	1	04/20/2006	05/01/2006	DWB10420	
C23 - C32 HRO	**0.62**	J	0.14	5.0	1	04/20/2006	05/01/2006	DWB10420	
Total Petroleum Hydrocarbons	**0.91**	J	0.42	7.0	1	04/20/2006	05/01/2006	DWB10420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	123	50-140	05/01/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Collected: 04/13/2006
Date Received: 04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: T-48 GW-35MS
Lab Code: L0600641-007MS

Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	0.14	1.0	1	04/20/2006	05/01/2006	DWB10420	
C13 - C22 DRO	**121**		0.14	1.0	1	04/20/2006	05/01/2006	DWB10420	
C23 - C32 HRO	ND	U	0.14	5.0	1	04/20/2006	05/01/2006	DWB10420	
Total Petroleum Hydrocarbons	ND	U	0.42	7.0	1	04/20/2006	05/01/2006	DWB10420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	121	50-140	05/01/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	04/13/2006
Sample Matrix:	Water	**Date Received:**	04/13/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name:	T-48 GW-35MSD		
Lab Code:	L0600641-007MSD	**Units:**	mg/L (ppm)
		Basis:	NA
Extraction	SW3510		
Analysis Method:	SW8015		

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	0.14	1.00	1	NA	05/01/2006	DWB10420	
C13 - C22 DRO	**121**		0.14	1.00	1	NA	05/01/2006	DWB10420	
C23 - C32 HRO	ND	U	0.14	5.0	1	NA	05/01/2006	DWB10420	
Total Petroleum Hydrocarbons	ND	U	0.42	7.0	1	NA	05/01/2006	DWB10420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	119	50-140	05/01/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Collected: NA
Date Received: NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name: Method Blank
Lab Code: DWB10420

Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	0.14	1.0	1	04/20/2006	04/30/2006	DWB10420	
C13 - C22 DRO	ND	U	0.14	1.0	1	04/20/2006	04/30/2006	DWB10420	
C23 - C32 HRO	ND	U	0.14	5.0	1	04/20/2006	04/30/2006	DWB10420	
Total Petroleum Hydrocarbons	ND	U	0.42	7.0	1	04/20/2006	04/30/2006	DWB10420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	127	50-140	04/30/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Collected: NA
Date Received: NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name: Laboratory Control Sample
Lab Code: DWB10420LCS

Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	0.14	1.00	1	04/20/2006	04/30/2006	DWB10420	
C13 - C22 DRO	**126**		0.14	1.00	1	04/20/2006	04/30/2006	DWB10420	
C23 - C32 HRO	ND	U	0.14	5.0	1	04/20/2006	04/30/2006	DWB10420	
Total Petroleum Hydrocarbons	ND	U	0.42	7.0	1	04/20/2006	04/30/2006	DWB10420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	130	50-140	04/30/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Soil

Service Request: L0600641
Date Collected: NA
Date Received: NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name: Method Blank
Lab Code: DSB10502

Extraction SW3550
Analysis Method: SW8015

Units: mg/Kg (ppm
Basis: Dry
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	5.0	10	1	05/02/2006	05/06/2006	DSB10502	
C13 - C22 DRO	ND	U	3.3	10	1	05/02/2006	05/06/2006	DSB10502	
C23 - C32 HRO	**8.9**	J	3.0	50	1	05/02/2006	05/06/2006	DSB10502	
Total Petroleum Hydrocarbons	ND	U	18	70	1	05/02/2006	05/06/2006	DSB10502	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	86	50-140	05/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Soil

Service Request: L0600641
Date Collected: NA
Date Received: NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name: Laboratory Control Sample
Lab Code: DSB10502LCS

Extraction SW3550
Analysis Method: SW8015

Units: mg/Kg (ppm
Basis: Dry
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C6 - C12 GRO	ND	U	5.1	10	1	05/02/2006	05/06/2006	DSB10502	
C13 - C22 DRO	**1090**		5.1	10	1	05/02/2006	05/06/2006	DSB10502	
C23 - C32 HRO	ND	U	5.1	50	1	05/02/2006	05/06/2006	DSB10502	
Total Petroleum Hydrocarbons	ND	U	18	70	1	05/02/2006	05/06/2006	DSB10502	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	90	50-140	05/06/2006	

Comments: _____

QC Summary

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Soil

Service Request: L0600641

Surrogate Recovery Summary
Diesel Range Organics / Motor Oil Range Organics

Prep Method: SW3550
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1
Method Blank	DSB10502		86
Laboratory Control Sample	DSB10502LCS		90
T-49-5.5B	L0600641-001		91
T-47-GT	L0600641-003		91
T-47-GTMS	L0600641-003MS		85
T-47-GTMSD	L0600641-003MSD		91
T-48-6B	L0600641-005		91

Surrogate Recovery Control Limits (%)

S1: Octacosane - SS 50-140

Client: GeoSyntec Consultant **Service Request:** L0600641
Project: TDY
Sample Matrix: Water

Surrogate Recovery Summary
Diesel Range Organics / Motor Oil Range Organics

Prep Method: SW3510 **Units:** Percent
Analysis Method: SW8015

Sample Name	Lab Code	Q	S1
Method Blank	DWB10420		127
Laboratory Control Sample	DWB10420LCS		130
T-49 GW-11	L0600641-002		130
T-47 GW-11	L0600641-004		127
T-48 GW-11	L0600641-006		133
T-48 GW-35	L0600641-007		123
T-48 GW-35MS	L0600641-007MS		121
T-48 GW-35MSD	L0600641-007MSD		119

Surrogate Recovery Control Limits (%)

S1: Octacosane - SS 50-140

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	05/02/2006
		Date Analyzed:	05/06/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Diesel Range Organics / Motor Oil Range Organics

LCS Sample	Lab Control Sample		
Lab Code:	DSB10502LCS	**Units:**	mg/Kg (ppm
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike % Rec LCS	CAS Acceptance Limits	Result Notes
C13 - C22 DRO	SW3550	SW8015	10	1000	1090	109	56-139	

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	04/20/2006
		Date Analyzed:	04/30/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Diesel Range Organics / Motor Oil Range Organics

LCS Sample Lab Control Sample
Lab Code: DWB10420LCS **Units:** mg/L (ppm)
Test Notes:

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike % Rec LCS	CAS Acceptance Limits	Result Notes
C13 - C22 DRO	SW3510	SW8015	1.00	99.7	126	126	57-131	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	04/13/2006
Sample Matrix:	Soil	**Date Received:**	04/13/2006
		Date Extracted:	05/02/2006
		Date Analyzed:	05/06/2006

Matrix Spike/Duplicate Matrix Spike Summary
Diesel Range Organics / Motor Oil Range Organics

MS Sample Name:	T-47-GTMS	**DMS Sample**	T-47-GTMSD
Lab Code:	L0600641-003	**Units:**	mg/Kg (ppm
Test Notes:		**Basis:**	Dry

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Sample Result	Spike Result MS	Spike Result MSD	Spike % Rec MS	Spike % Rec MSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
C13 - C22 DRO	SW3550	SW8015	12	1220	ND	1280	1260	105	103	56-139	2	

QA/QC Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Collected:**	04/13/2006
Sample Matrix:	Water	**Date Received:**	04/13/2006
		Date Extracted:	04/20/2006
		Date Analyzed:	05/01/2006

Matrix Spike/Duplicate Matrix Spike Summary
Diesel Range Organics / Motor Oil Range Organics

MS Sample Name:	T-48 GW-35MS	**DMS Sample**	T-48 GW-35MSD
Lab Code:	L0600641-007	**Units:**	mg/L (ppm)
Test Notes:		**Basis:**	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Sample Result	Spike Result MS	Spike Result MSD	Spike % Rec MS	Spike % Rec MSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
C13 - C22 DRO	SW3510	SW8015	1.0	100	ND	121	121	121	121	57-131	0	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	GeoSyntec Consultant	**Service Request:**	L0600641
Project:	TDY	**Date Extracted:**	05/02/2006
Sample Matrix:	Soil	**Date Analyzed:**	05/06/2006
		Time Analyzed:	14:32

Method Blank Summary

Diesel Range Organics / Motor Oil Range Organics

Extaction Method:	SW3550	**Extraction Lot:**	DSB10502
Analysis Method:	SW8015	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	DSB10502LCS	O0506006	05/06/2006	15:27
T-49-5.5B	L0600641-001	O0506007	05/06/2006	16:23
T-47-GT	L0600641-003	O0506008	05/06/2006	17:19
T-47-GTMS	L0600641-003MS	O0506009	05/06/2006	18:15
T-47-GTMSD	L0600641-003MSD	O0506010	05/06/2006	19:10
T-48-6B	L0600641-005	O0506011	05/06/2006	20:06

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Extracted: 04/20/2006
Date Analyzed: 04/30/2006
Time Analyzed: 22:43

Method Blank Summary
Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3510
Analysis Method: SW8015

Extraction Lot: DWB10420
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	DWB10420LCS	O0430013	04/30/2006	23:36
T-49 GW-11	L0600641-002	O0430014	05/01/2006	00:29
T-47 GW-11	L0600641-004	O0430015	05/01/2006	01:22
T-48 GW-11	L0600641-006	O0430016	05/01/2006	02:15
T-48 GW-35	L0600641-007	O0430017	05/01/2006	03:09
T-48 GW-35MS	L0600641-007MS	O0430018	05/01/2006	04:02
T-48 GW-35MSD	L0600641-007MSD	O0430019	05/01/2006	04:56

Standards data

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600641
ICAL Date: 04/27/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 04/27/2006GCO
Instrument ID: GCO

Level ID	File ID	Level ID	File ID
A	O0427008	F	O0427007
B	O0427009	G	O0427006
C	O0427010		
D	O0427011		
E	O0427012		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
C13 - C22 DRO	A	0.100	9359	B	0.500	9795	C	1.000	9621	D	2.500	10117	E	4.000	9995
	F	0.050	9360	G	0.010	8685	H	0.005	6086						
Total Petroleum Hydrocarbons	A	0.200	6424	B	1.000	6200	C	2.000	6050	D	5.000	6313	E	8.000	6222
	F	0.100	6779	G	0.010	9904	H	0.005	13609						
C23 - C32 HRO	A	0.100	9359	B	0.500	9795	C	1.000	9621	D	2.500	10117	E	4.000	9995
	F	0.050	9360	G	0.010	8685	H	0.005	6086						
C6 - C12 GRO	A	0.100	9359	B	0.500	9795	C	1.000	9621	D	2.500	10117	E	4.000	9995
	F	0.050	9360	G	0.010	8685	H	0.005	6086						
Octacosane	A	0.100	9191	B	0.150	9317	C	0.250	9823	D	0.300	10132	E	0.350	10189
	F	0.050	9210												
Triacontane	A	0.100	8599	B	0.150	8805	C	0.250	9357	D	0.300	9695	E	0.350	9778
	F	0.050	8367												

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600641
ICAL Date: 04/27/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 04/27/2006GCO
Instrument ID: GCO
Mean RSD: 16.92

			Calibration Evaluation			
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
C13 - C22 DRO	TRG	AverageRF	% RSD	14.3		20
Total Petroleum Hydrocarbons	TRG	Linear	r	1.000		0.995
C23 - C32 HRO	TRG	AverageRF	% RSD	14.3		20
C6 - C12 GRO	TRG	AverageRF	% RSD	14.3		20
Octacosane	SUR	AverageRF	% RSD	4.8		20
Triacontane	TRG	AverageRF	% RSD	6.5		20

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600641
Date Analyzed: 04/28/2006

Second Source Calibration Verification
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 04/27/2006GCO
Instrument ID: GCO
File ID: O0427015

Column: RTX-5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
C13 - C22 DRO	1.000	0.983	9127	8971	-1.7	NA	+/- 15.0	AverageRF	
Octacosane	N/A	N/A	9644	9964	0.0	NA	+/- 15.0	AverageRF	

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600641
Date Analyzed: 04/30/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 04/27/2006GCO
Instrument ID: GCO
File ID: O0430011

Column: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
C13 - C22 DRO	2.500	2.697	9127	9847	7.9	NA	+/- 15.0	AverageRF	
Octacosane	0.300	0.297	9644	9563	-0.8	NA	+/- 15.0	AverageRF	

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600641
Date Analyzed: 05/01/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 04/27/2006GCO
Instrument ID: GCO
File ID: O0430021

Column: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
C13 - C22 DRO	1.000	1.089	9127	9936	8.9	NA	+/- 15.0	AverageRF	
Octacosane	0.250	0.240	9644	9244	-4.1	NA	+/- 15.0	AverageRF	

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600641
Date Analyzed: 05/06/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 04/27/2006GCO
Instrument ID: GCO
File ID: O0506004

Column: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
C13 - C22 DRO	1.000	1.037	9127	9465	3.7	NA	+/- 15.0	AverageRF	
Octacosane	0.250	0.223	9644	8607	-10.7	NA	+/- 15.0	AverageRF	

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600641
Date Analyzed: 05/06/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 04/27/2006GCO
Instrument ID: GCO
File ID: O0506015

Column: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
C13 - C22 DRO	2.500	2.512	9127	9171	0.5	NA	+/- 15.0	AverageRF	
Octacosane	0.300	0.261	9644	8391	-13.0	NA	+/- 15.0	AverageRF	

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600641

Analysis Run Log
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015

Instrument ID: GCO
Column: RTX-5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
O0427005	DSTD8	DSTD8	04/27/2006	14:34		04/27/2006	15:14
O0427006	DSTD7	DSTD7	04/27/2006	15:25		04/27/2006	16:05
O0427007	DSTD6	DSTD6	04/27/2006	18:17		04/27/2006	18:57
O0427008	DSTD1	DSTD1	04/27/2006	19:08		04/27/2006	19:48
O0427009	DSTD2	DSTD2	04/27/2006	19:59		04/27/2006	20:39
O0427010	DSTD3	DSTD3	04/27/2006	20:51		04/27/2006	21:31
O0427011	DSTD4	DSTD4	04/27/2006	21:42		04/27/2006	22:22
O0427012	DSTD5	DSTD5	04/27/2006	22:34		04/27/2006	23:14
O0427015	QCALTSTD	QCALTSTD	04/28/2006	01:07		04/28/2006	01:47
O0430011	DSTD4	DSTD4	04/30/2006	21:49		04/30/2006	22:29
O0430012	Method Blank	DWB10420	04/30/2006	22:43		04/30/2006	23:23
O0430013	Laboratory Control Sample	DWB10420LCS	04/30/2006	23:36		05/01/2006	00:16
O0430014	T-49 GW-11	L0600641-002	05/01/2006	00:29		05/01/2006	01:09
O0430015	T-47 GW-11	L0600641-004	05/01/2006	01:22		05/01/2006	02:02
O0430016	T-48 GW-11	L0600641-006	05/01/2006	02:15		05/01/2006	02:55
O0430017	T-48 GW-35	L0600641-007	05/01/2006	03:09		05/01/2006	03:49
O0430018	T-48 GW-35MS	L0600641-007MS	05/01/2006	04:02		05/01/2006	04:42
O0430019	T-48 GW-35MSD	L0600641-007MSD	05/01/2006	04:56		05/01/2006	05:36
O0430021	DSTD3	DSTD3	05/01/2006	06:42		05/01/2006	07:22
O0506004	DSTD3	DSTD3	05/06/2006	13:36		05/06/2006	14:16
O0506005	Method Blank	DSB10502	05/06/2006	14:32		05/06/2006	15:12
O0506006	Laboratory Control Sample	DSB10502LCS	05/06/2006	15:27		05/06/2006	16:07
O0506007	T-49-5.5B	L0600641-001	05/06/2006	16:23		05/06/2006	17:03
O0506008	T-47-GT	L0600641-003	05/06/2006	17:19		05/06/2006	17:59
O0506009	T-47-GTMS	L0600641-003MS	05/06/2006	18:15		05/06/2006	18:55
O0506010	T-47-GTMSD	L0600641-003MSD	05/06/2006	19:10		05/06/2006	19:50
O0506011	T-48-6B	L0600641-005	05/06/2006	20:06		05/06/2006	20:46
O0506015	DSTD4	DSTD4	05/06/2006	23:44		05/07/2006	00:24

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Soil

Service Request: L0600641
Date Extracted: 05/02/2006

Extraction Prep Log
Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3550
Analysis Method: SW8015

Extraction Lot: DSB10502

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	DSB10502	NA	NA	10.00 G	10	NA	
Laboratory Control Sample	DSB10502LCS	NA	NA	10.00 G	10	NA	
T-49-5.5B	L0600641-001	04/13/2006	04/13/2006	10.00 G	10	86	*
T-47-GT	L0600641-003	04/13/2006	04/13/2006	10.00 G	10	82	*
T-47-GTMS	L0600641-003MS	04/13/2006	04/13/2006	10.00 G	10	82	*
T-47-GTMSD	L0600641-003MSD	04/13/2006	04/13/2006	10.00 G	10	82	*
T-48-6B	L0600641-005	04/13/2006	04/13/2006	10.10 G	10	83	*

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600641
Date Extracted: 04/20/2006

Extraction Prep Log
Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3510
Analysis Method: SW8015

Extraction Lot: DWB10420

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	DWB10420	NA	NA	0.030 L	3	NA	
Laboratory Control Sample	DWB10420LCS	NA	NA	0.030 L	3	NA	
T-49 GW-11	L0600641-002	04/13/2006	04/13/2006	0.030 L	3	NA	
T-47 GW-11	L0600641-004	04/13/2006	04/13/2006	0.030 L	3	NA	
T-48 GW-11	L0600641-006	04/13/2006	04/13/2006	0.030 L	3	NA	
T-48 GW-35	L0600641-007	04/13/2006	04/13/2006	0.030 L	3	NA	
T-48 GW-35MS	L0600641-007MS	04/13/2006	04/13/2006	0.030 L	3	NA	
T-48 GW-35MSD	L0600641-007MSD	04/13/2006	04/13/2006	0.030 L	3	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600641

Holding Time Summary
Diesel Range Organics*/ Motor Oil Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
T-49-5.5B	04/13/2006	04/13/2006	05/02/2006	14	19	N/A	N/A	N/A	05/06/2006	40	4	*
T-49 GW-11	04/13/2006	04/13/2006	04/20/2006	7	7	N/A	N/A	N/A	05/01/2006	40	11	
T-47-GT	04/13/2006	04/13/2006	05/02/2006	14	19	N/A	N/A	N/A	05/06/2006	40	4	*
T-47-GTMS	04/13/2006	04/13/2006	05/02/2006	14	19	N/A	N/A	N/A	05/06/2006	40	4	*
T-47-GTMSD	04/13/2006	04/13/2006	05/02/2006	14	19	N/A	N/A	N/A	05/06/2006	40	4	*
T-47 GW-11	04/13/2006	04/13/2006	04/20/2006	7	7	N/A	N/A	N/A	05/01/2006	40	11	
T-48-6B	04/13/2006	04/13/2006	05/02/2006	14	19	N/A	N/A	N/A	05/06/2006	40	4	*
T-48 GW-11	04/13/2006	04/13/2006	04/20/2006	7	7	N/A	N/A	N/A	05/01/2006	40	11	
T-48 GW-35	04/13/2006	04/13/2006	04/20/2006	7	7	N/A	N/A	N/A	05/01/2006	40	11	
T-48 GW-35MS	04/13/2006	04/13/2006	04/20/2006	7	7	N/A	N/A	N/A	05/01/2006	40	11	
T-48 GW-35MSD	04/13/2006	04/13/2006	N/A	7	N/A	N/A	N/A	N/A	05/01/2006	40	18	

Comments:

Raw Data

Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060427\O0427005.D
Lab Smp Id: DSL0.005mg/ml
Inj Date : 27-APR-2006 14:34
Operator : Mcm Inst ID: GCO.i
Smp Info : DSL0.005mg/ml
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060427_FCTPH_060427.m
Meth Date : 28-Apr-2006 10:29 mmontemayo Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 5 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

MCM 4/28/06

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/mL)	(mg/mL)
S	1 C6 - C12 GRO	1.600-10.757			30432	0.00500	0.010760(TAM)
S	2 C13 - C22 DRO	11.633-20.727			30432	0.00500	0.0033342(M)
S	3 C23 - C32 HRO	21.077-27.160			7183	0.00500	0.014948(M)
$	4 OCTACOSANE	24.603	24.670	-0.067	12613	0.00500	0.0013079(M)
$	5 TRIACONTANE	25.780	25.833	-0.053	3977	0.00500	0.00043702(M)
M	6 Total Petroleum Hydrocarbons				68047	0.00500	0.029042

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

JDA 5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427005.D

Date : 27-APR-2006 14:34

Client ID:

Sample Info: DSL0.005mg/ml

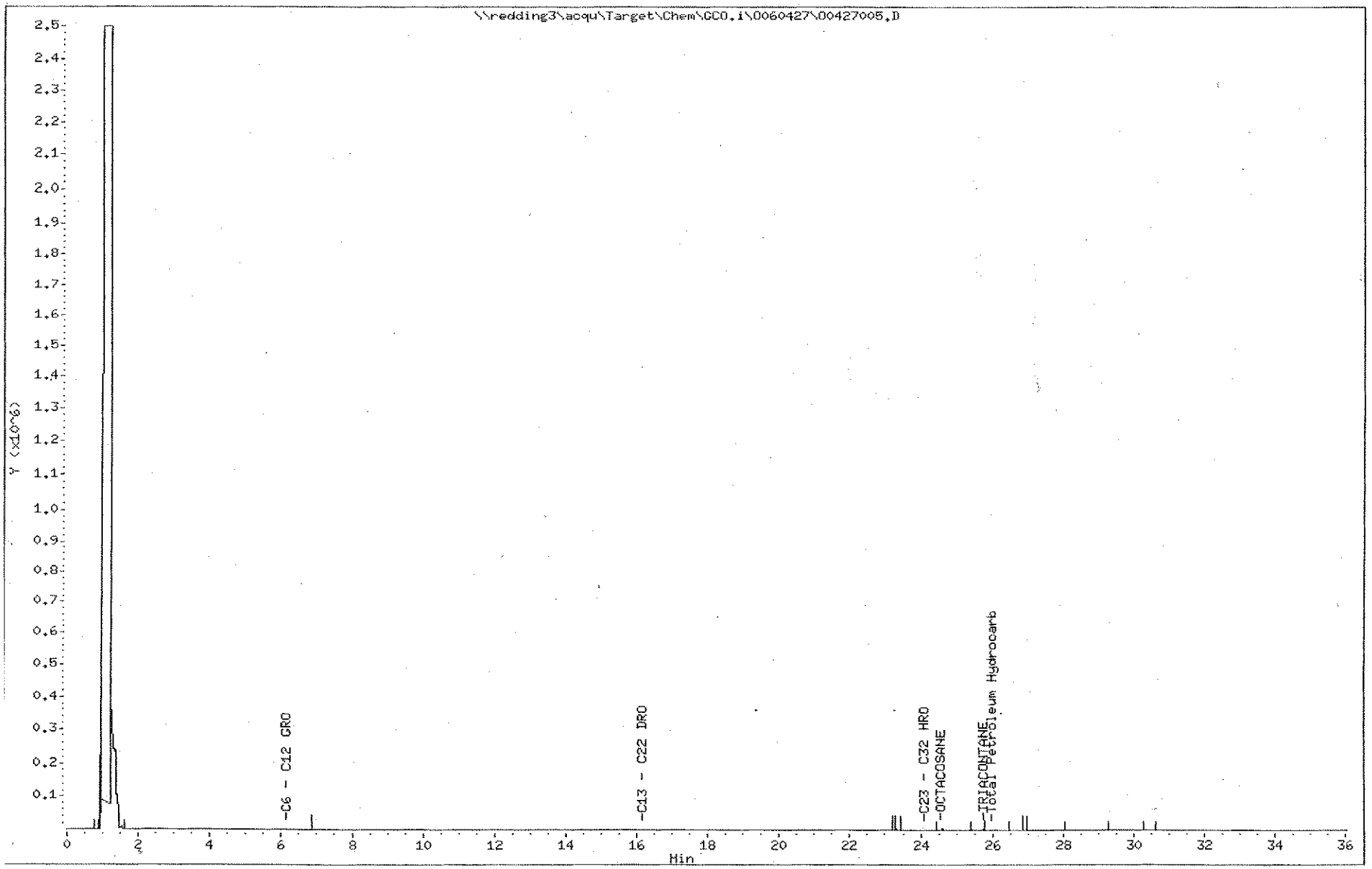
Column phase: RTX-5

Instrument: GCO.i

Operator: Mcm

Column diameter: 0.53

109



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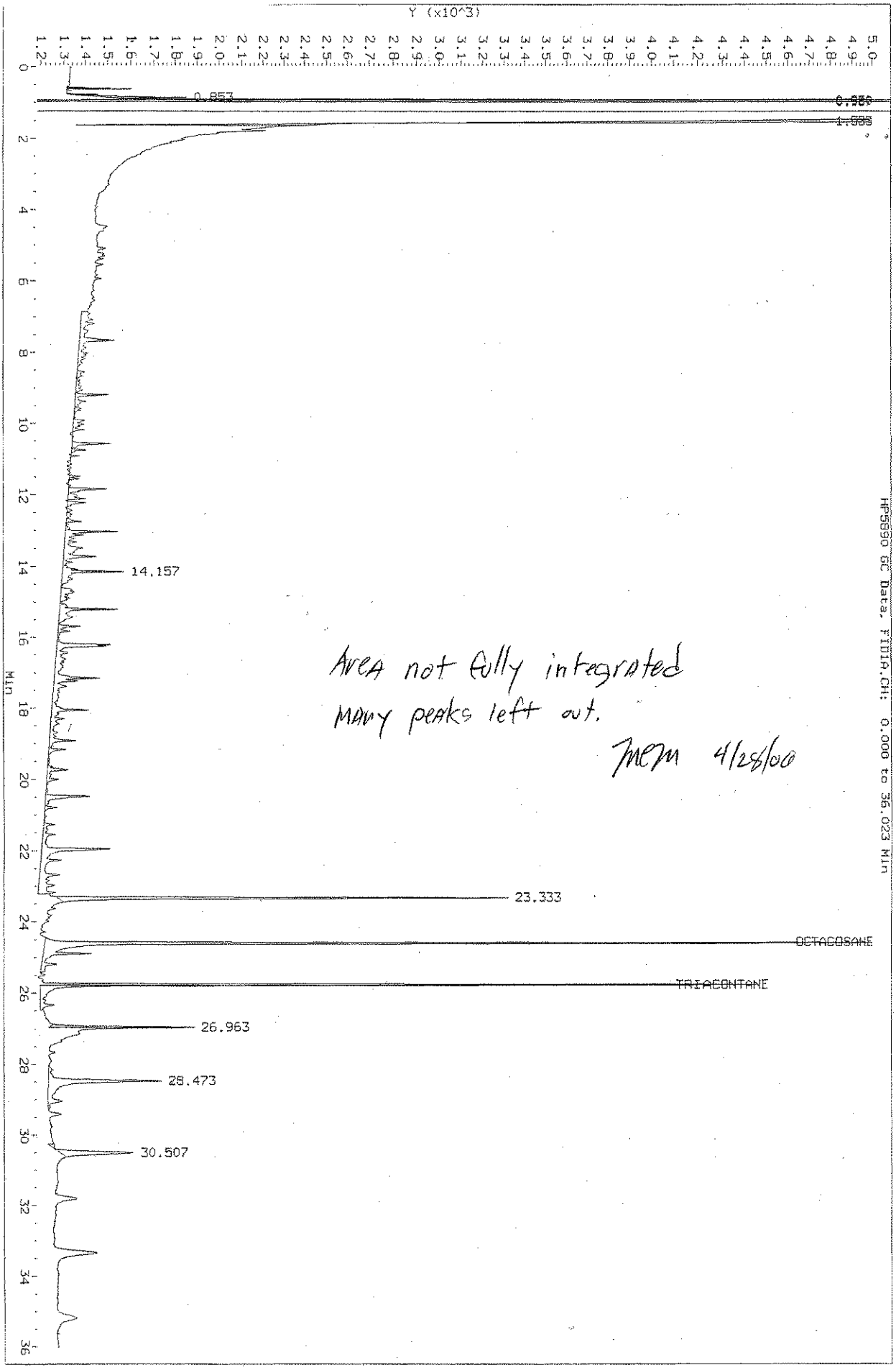
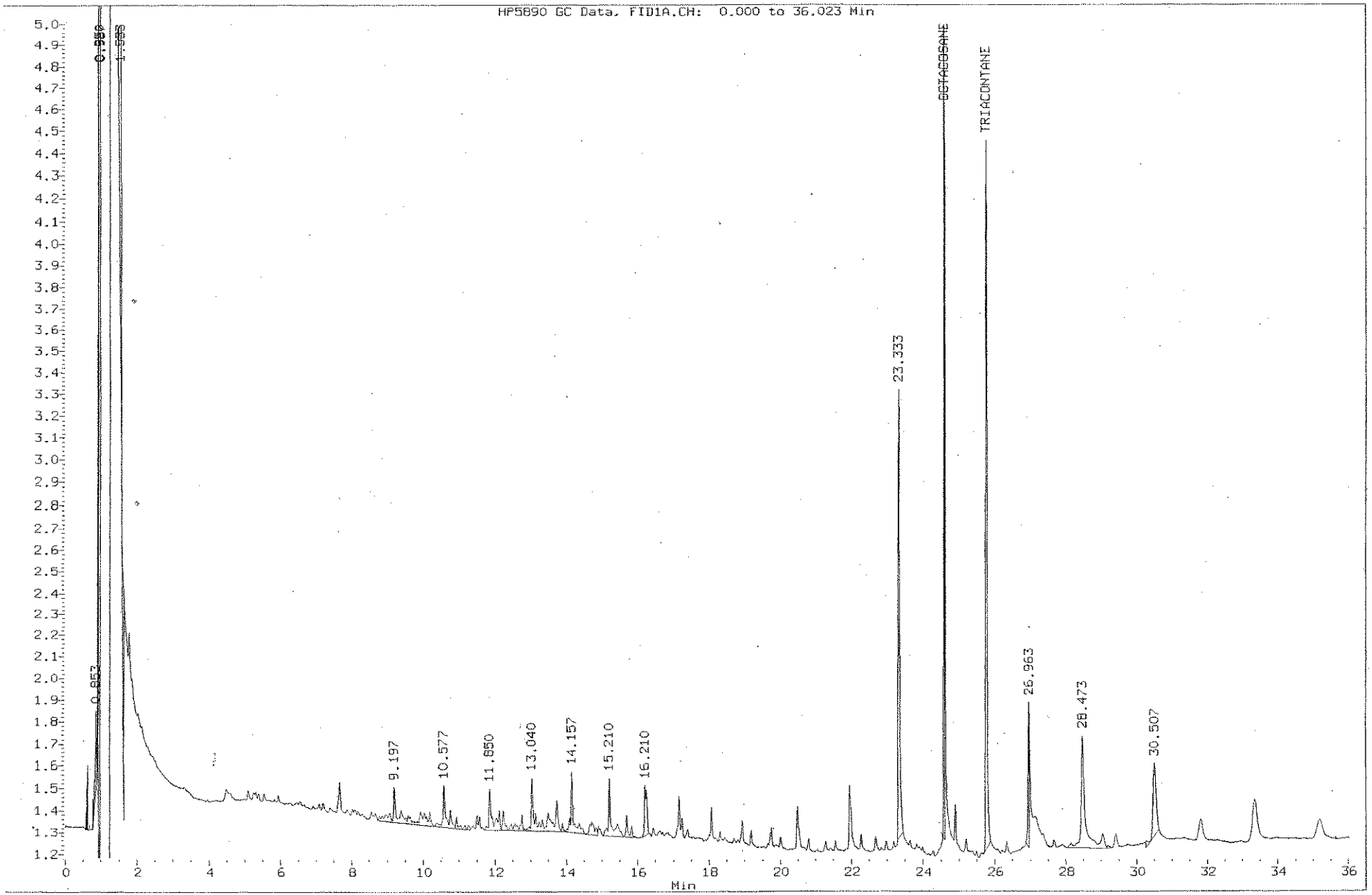


Area not fully integrated
many peaks left out.
MCM 4/28/06

JDH 5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427005.D
Injection Date: 27-APR-2006 14:34
Instrument: GCO.i
Client Sample ID:



Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060427\O0427006.D
Lab Smp Id: DSL0.010mg/ml
Inj Date : 27-APR-2006 15:25
Operator : Mcm Inst ID: GCO.i
Smp Info : DSL0.010mg/ml
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060427_FCTPH_060427.m
Meth Date : 28-Apr-2006 08:18 mmontemayo Quant Type: ESTD
Cal Date : 27-APR-2006 15:25 Cal File: O0427006.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

MCM 4/28/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/mL)	ON-COL (mg/mL)
S	1 C6 - C12 GRO	1.600-10.757			2410	1.00000	0.00027407(A)
S	2 C13 - C22 DRO	11.633-20.727			86847	1.00000	0.0098606(M)
S	3 C23 - C32 HRO	21.077-27.160			9778	1.00000	0.0011118(M)
$	4 OCTACOSANE	24.603	24.603	0.000	22620	0.25000	0.0035470(M)
$	5 TRIACONTANE	25.766	25.766	0.000	18734	0.25000	0.0033536(M)
M	6 Total Petroleum Hydrocarbons				99035	2.00000	0.011246

QC Flag Legend

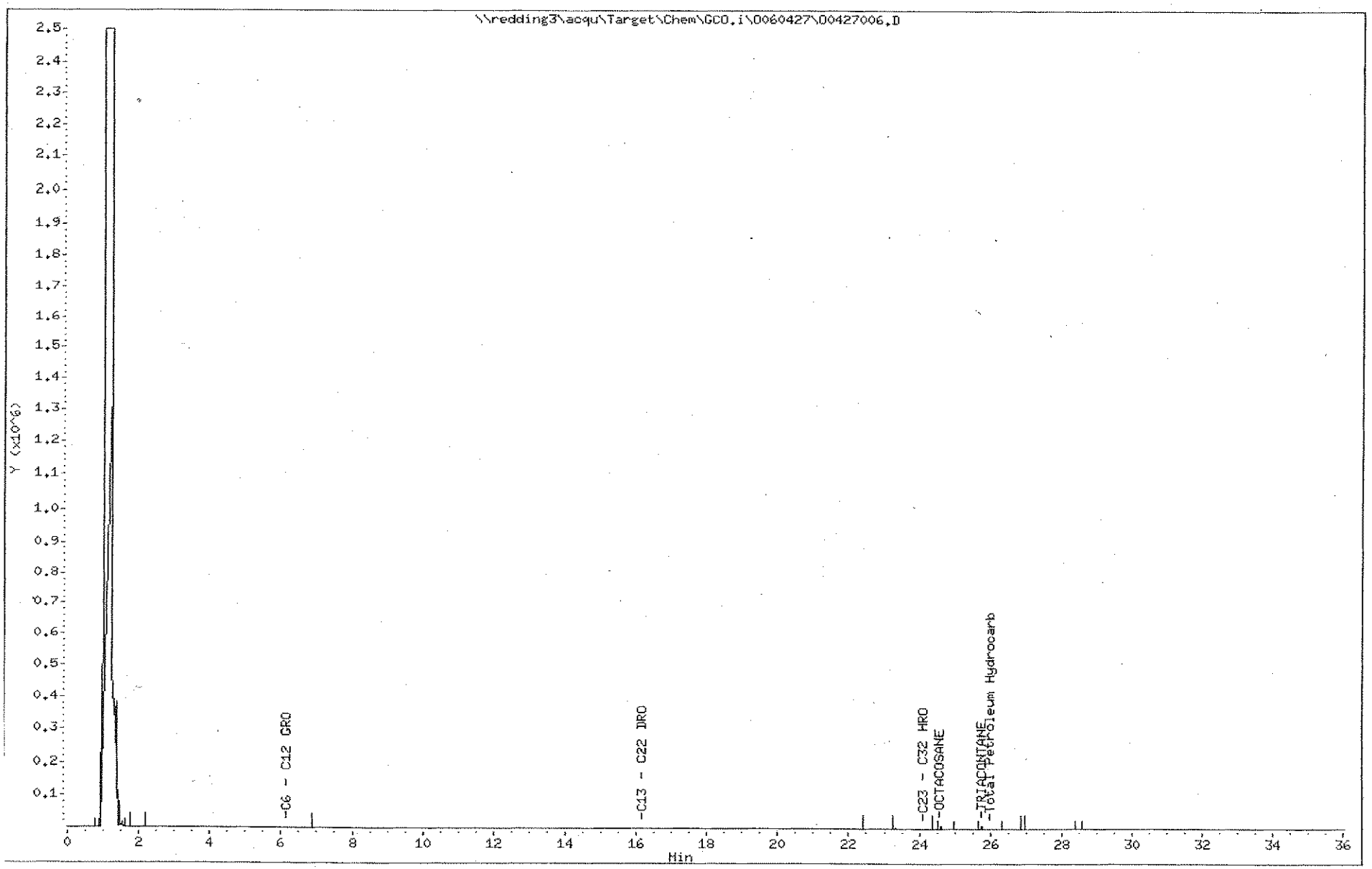
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

JDH 5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427006.D
Date : 27-APR-2006 15:25
Client ID:
Sample Info: DSL0.010mg/ml

Instrument: GCO.i
Operator: Hcm
Column diameter: 0.53

Column phase: RTX-5



113

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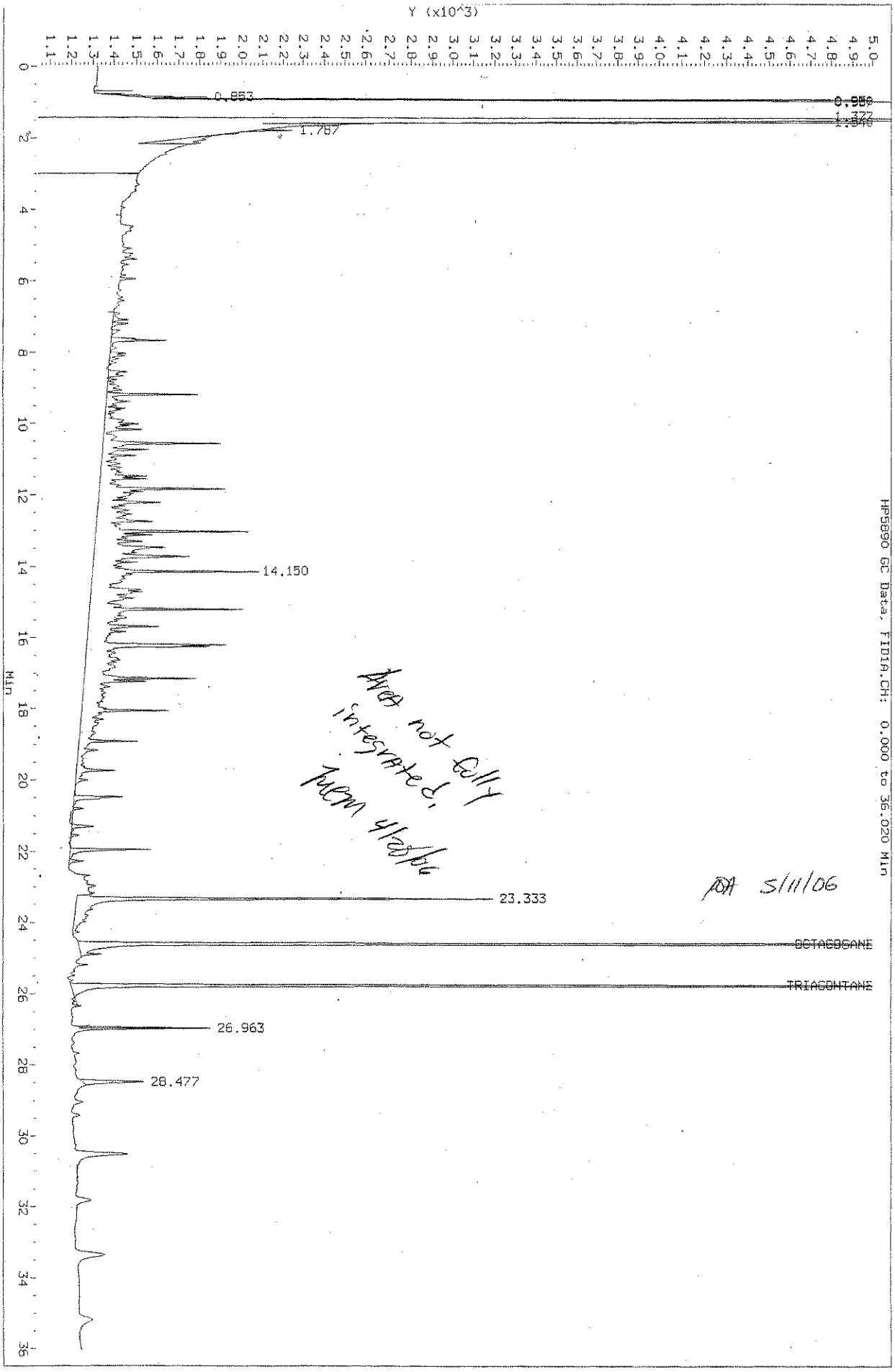
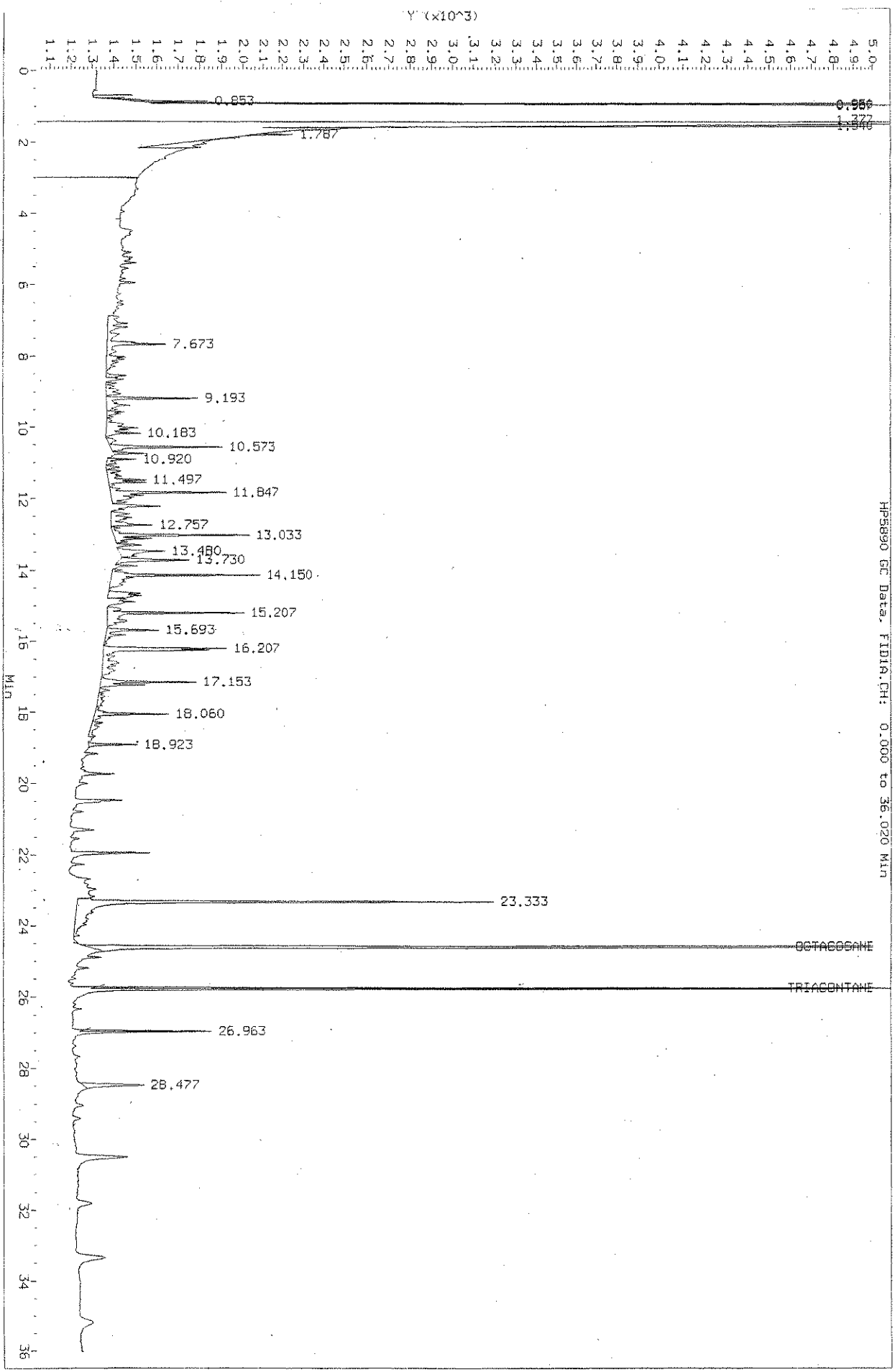

Data File: \\redding3\acqu\Target\Chem\GC0.1\0060427\00427006.D
Injection Date: 27-APR-2006 15:25
Instrument: GC0.1
Client Sample ID:
HP5890 GC Data, FID1A.CH: 0.000 to 36.020 Min
Y (x10^3)
Min
0.853
1.787
14.150
23.333
OCTACOSANE
TRIACONTANE
26.963
28.477
Area not fully integrated, Item 4/abn
AH 5/11/06


Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427006.D
Injection Date: 27-APR-2006 15:25
Instrument: GCO.i
Client Sample ID:
Y (x10^3)
0.853
0.956
1.327
1.767
7.673
9.193
10.183
10.573
10.920
11.497
11.847
12.757
13.033
13.480
13.730
14.150
15.207
15.693
16.207
17.153
18.060
18.923
23.333
OCTACOSANE
TRIACONTANE
26.963
28.477
HP5890 GC Data. FIDIA.CH: 0.000 to 36.020 Min
Min

Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060427\O0427007.D
Lab Smp Id: DSL0.050mg/ml
Inj Date : 27-APR-2006 18:17
Operator : Mcm Inst ID: GCO.i
Smp Info : DSL0.050mg/ml
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060427_FCTPH_060427.m
Meth Date : 28-Apr-2006 08:18 mmontemayo Quant Type: ESTD
Cal Date : 27-APR-2006 15:25 Cal File: O0427006.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

MCM 4/28/06

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/mL)	(mg/mL)
S	1 C6 - C12 GRO	1.600	10.757		196429	0.02233	0.022333 (A)
S	2 C13 - C22 DRO	11.633	20.727		467986	0.05319	0.053194
S	3 C23 - C32 HRO	21.077	27.160		13509	0.00154	0.0015360
$	4 OCTACOSANE	24.613	24.603	0.010	460481	0.07222	0.072219 (R)
$	5 TRIACONTANE	25.776	25.766	0.010	418371	0.07499	0.074992 (R)
M	6 Total Petroleum Hydrocarbons				677924	0.07706	0.077064

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

JDH 5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427007.D

Page 3

Date : 27-APR-2006 18:17

Client ID:

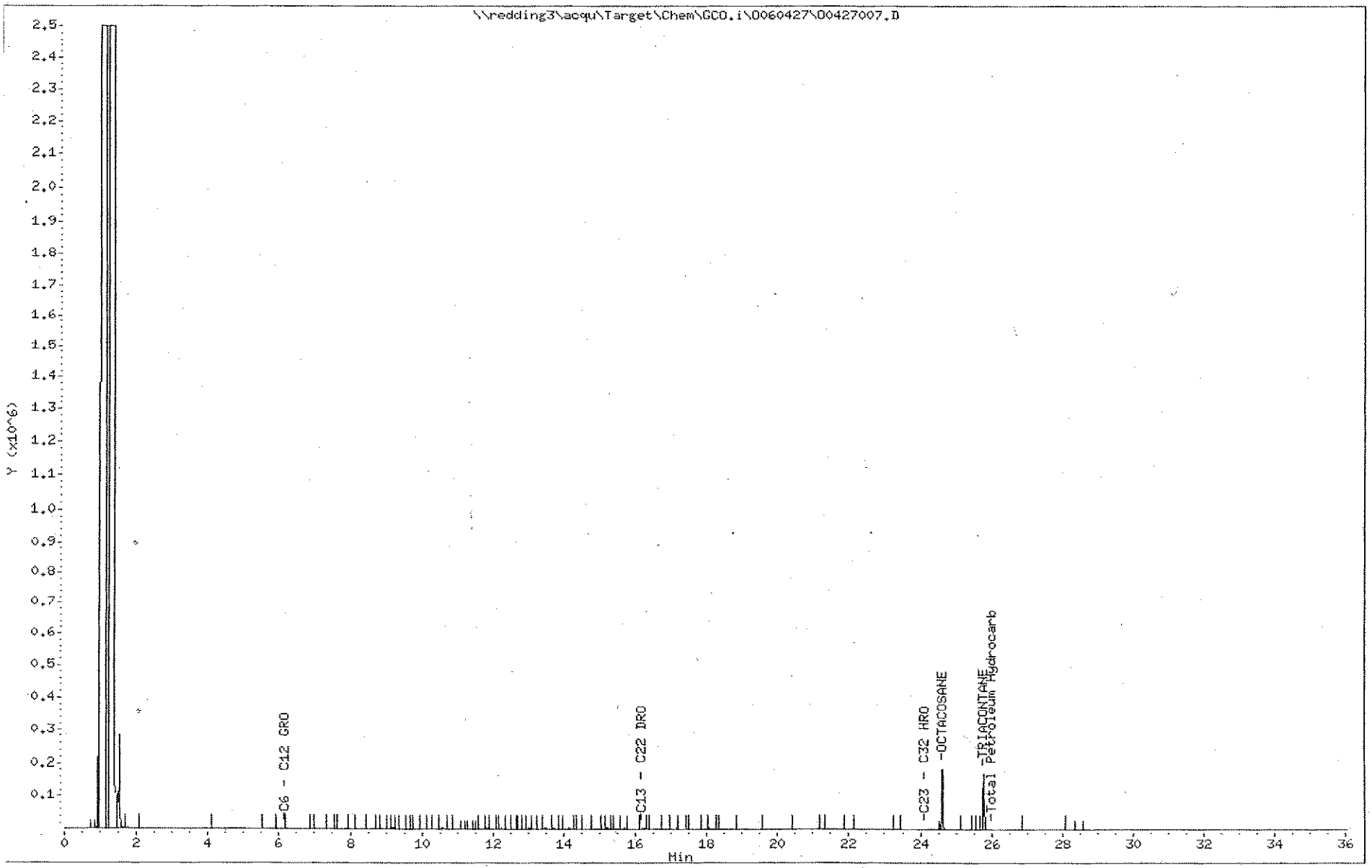
Instrument: GCO.i

Sample Info: BSL0.050mg/ml

Operator: Mcm

Column phase: RTX-5

Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060427\O0427008.D
Lab Smp Id: DSL0.100mg/ml
Inj Date : 27-APR-2006 19:08
Operator : Mcm Inst ID: GCO.i
Smp Info : DSL0.100mg/ml
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060427_FCTPH_060427.m
Meth Date : 28-Apr-2006 08:18 mmontemayo Quant Type: ESTD
Cal Date : 27-APR-2006 15:25 Cal File: O0427006.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

mcm 4/28/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	FINAL (mg/mL)
S	1 C6 - C12 GRO	1.600-10.757			304461	0.03462	0.034616(A)
S	2 C13 - C22 DRO	11.633-20.727			935941	0.10639	0.10638
S	3 C23 - C32 HRO	21.077-27.160			44389	0.00505	0.0050473
$	4 OCTACOSANE	24.626	24.603	0.023	919135	0.14415	0.14415(R)
$	5 TRIACONTANE	25.790	25.766	0.024	859911	0.15414	0.15414(R)
M	6 Total Petroleum Hydrocarbons				1284791	0.14605	0.14605

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

JH 5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427008.D

Date : 27-APR-2006 19:08

Client ID:

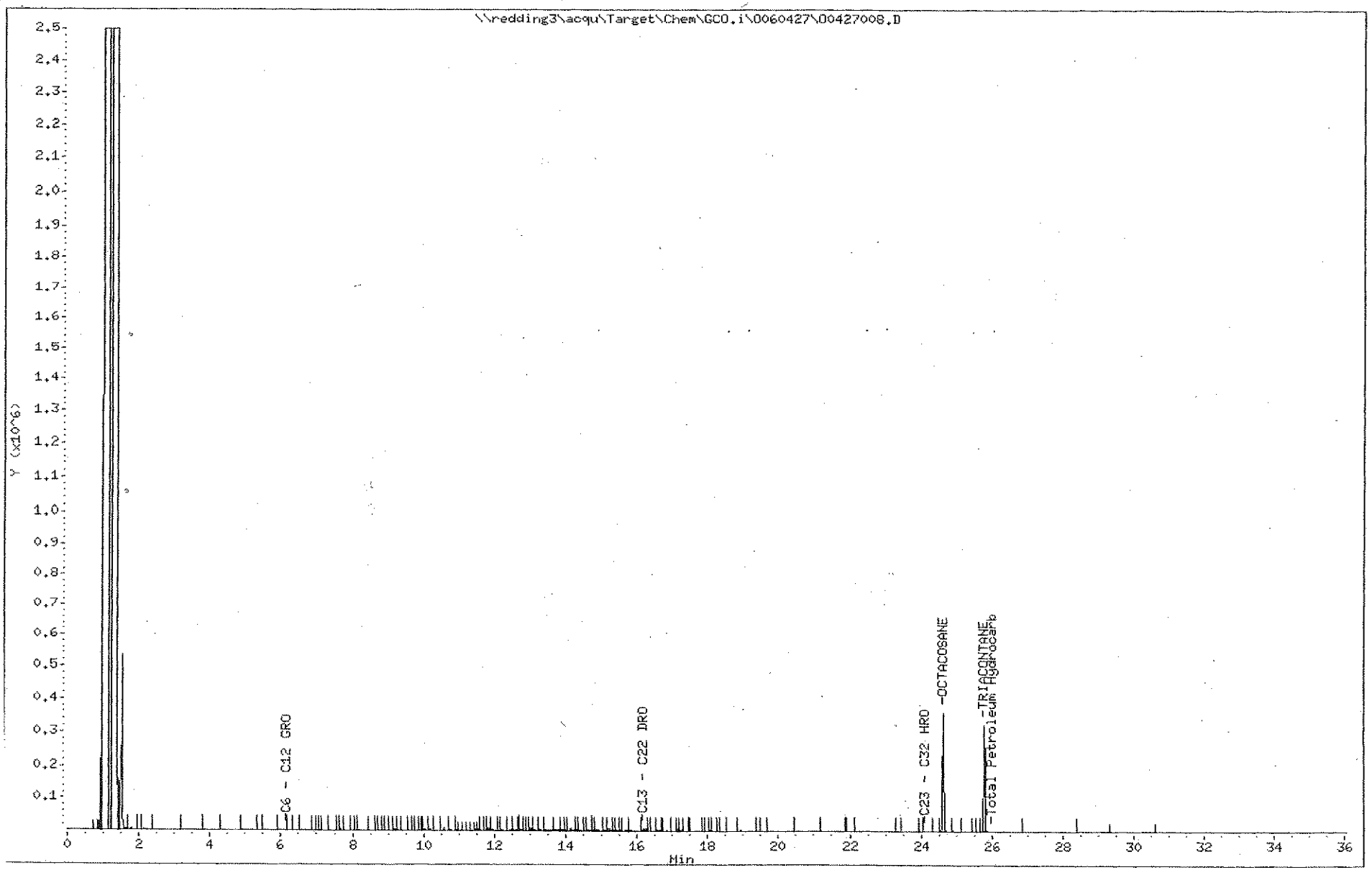
Instrument: GCO.i

Sample Info: DSL0.100mg/ml

Operator: Mom

Column phase: RTX-5

Column diameter: 0.53



Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060427\O0427009.D
Lab Smp Id: DSL0.500mg/ml
Inj Date : 27-APR-2006 19:59
Operator : Mcm Inst ID: GCO.i
Smp Info : DSL0.500mg/ml
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060427_FCTPH_060427.m
Meth Date : 28-Apr-2006 08:18 mmontemayo Quant Type: ESTD
Cal Date : 27-APR-2006 15:25 Cal File: O0427006.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

mcm 4/28/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	FINAL (mg/mL)
S	1 C6 - C12 GRO	1.600-10.757			1203456	0.13683	0.13683 (A)
S	2 C13 - C22 DRO	11.633-20.727			4897286	0.55666	0.55666
S	3 C23 - C32 HRO	21.077-27.160			99077	0.01127	0.011266
$	4 OCTACOSANE	24.636	24.603	0.033	1397481	0.21917	0.21917 (R)
$	5 TRIACONTANE	25.800	25.766	0.034	1320731	0.23674	0.23674 (R)
M	6 Total Petroleum Hydrocarbons				6199819	0.70476	0.70476

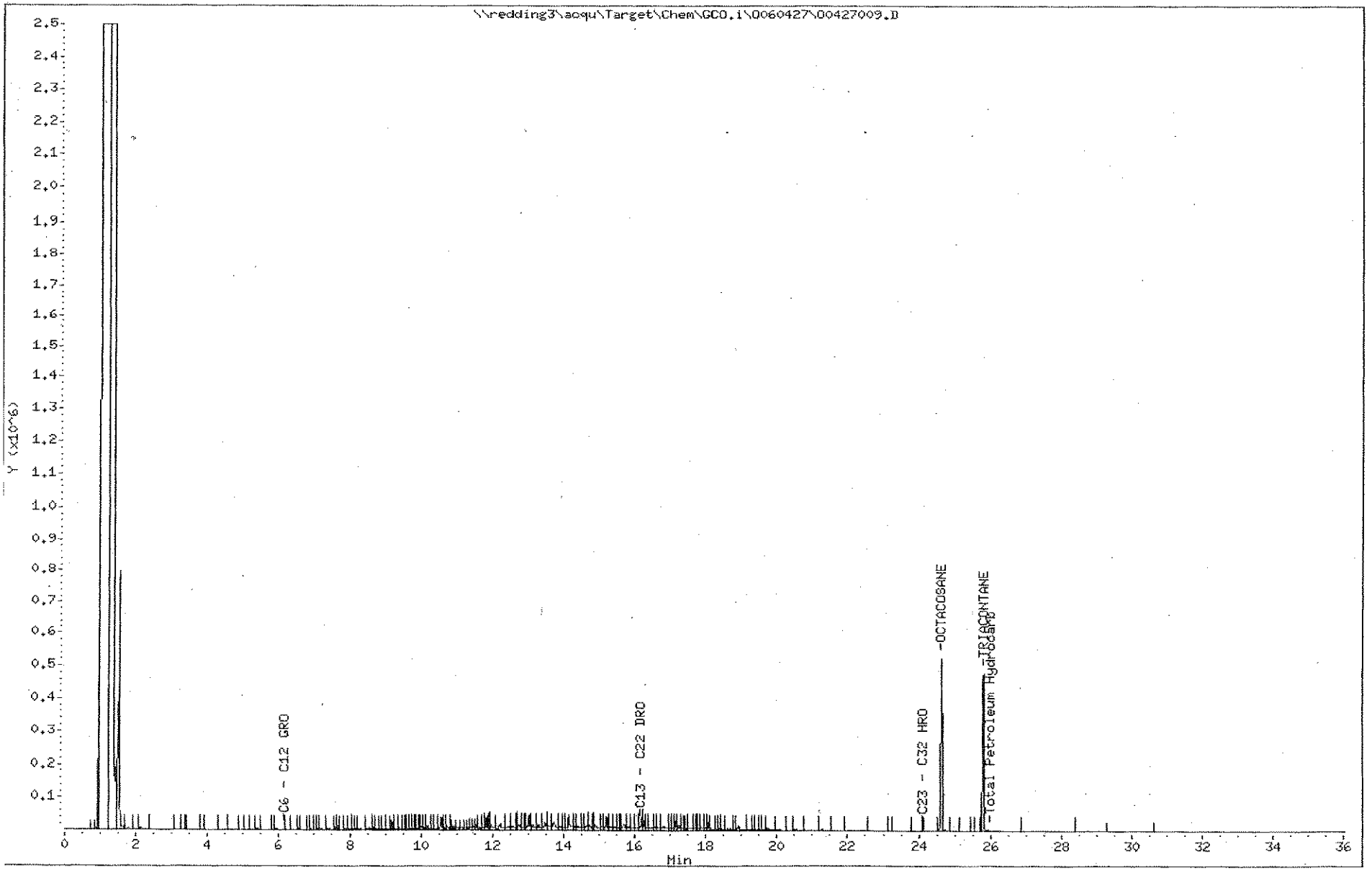
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

JDH 5/1/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427009.D
Date : 27-APR-2006 19:59
Client ID:
Sample Info: BSL0.500mg/ml

Instrument: GCO.i
Operator: Mcm
Column phase: RTX-5
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060427\O0427010.D
Lab Smp Id: DSL1.000mg/ml
Inj Date : 27-APR-2006 20:51
Operator : Mcm Inst ID: GCO.i
Smp Info : DSL1.000mg/ml
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060427_FCTPH_060427.m
Meth Date : 28-Apr-2006 08:18 mmontemayo Quant Type: ESTD
Cal Date : 27-APR-2006 15:25 Cal File: O0427006.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

Mcm 4/28/06

						CONCENTRATIONS ON-COLUMN (mg/mL)	FINAL (mg/mL)
Compounds		RT	EXP RT	DLT RT	RESPONSE		
S	1 C6 - C12 GRO	1.600	-10.757		2284309	0.25972	0.25972(A)
S	2 C13 - C22 DRO	11.633	-20.727		9621259	1.09362	1.0936
S	3 C23 - C32 HRO	21.077	-27.160		194377	0.02210	0.022102
$	4 OCTACOSANE	24.653	24.603	0.050	2455675	0.38513	0.38513(AR)
$	5 TRIACONTANE	25.816	25.766	0.050	2339335	0.41932	0.41932(AR)
M	6 Total Petroleum Hydrocarbons				12099945	1.37544	1.3754

QC Flag Legend

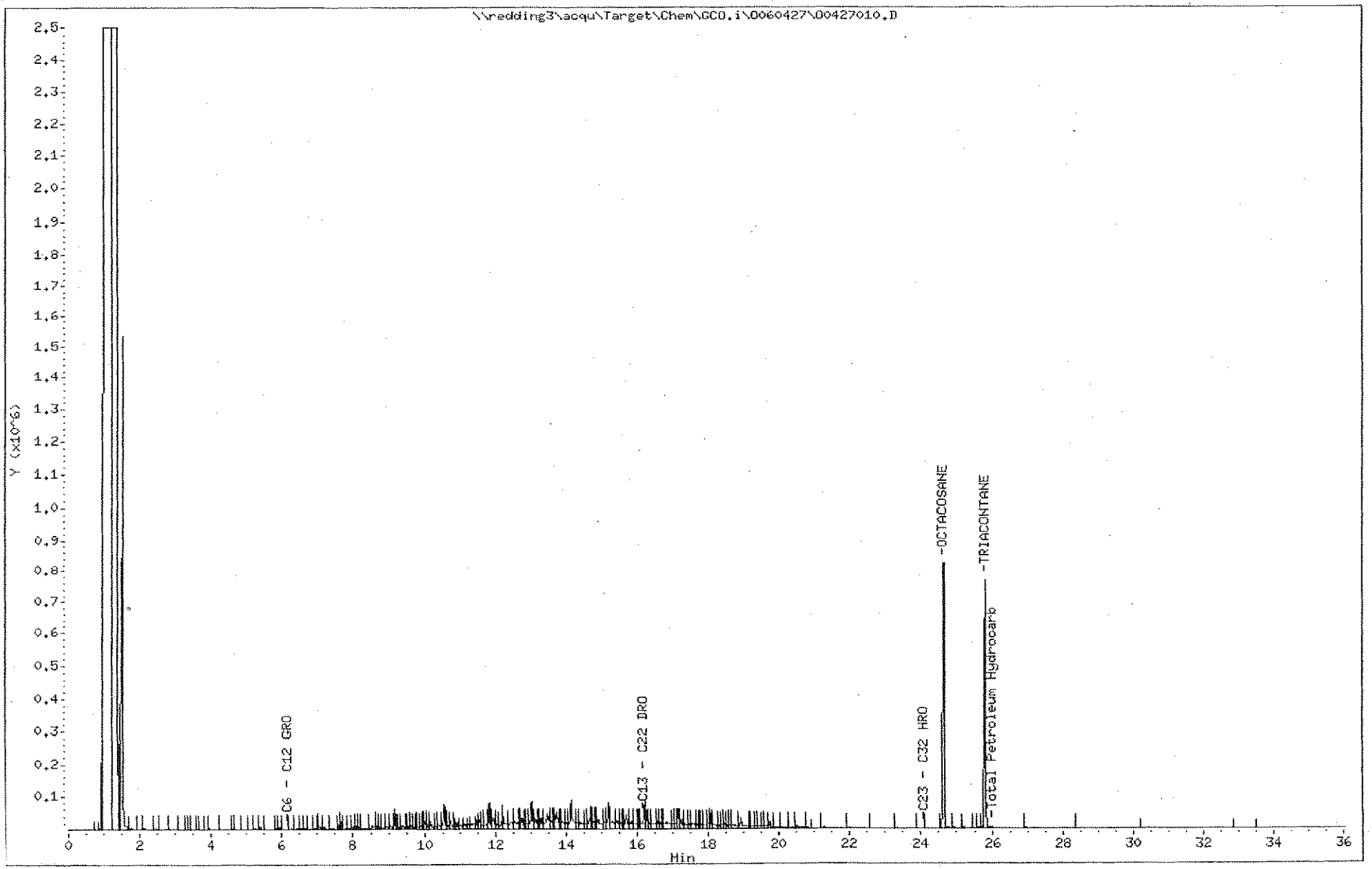
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

5/4/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427010.D
Date : 27-APR-2006 20:51
Client ID:
Sample Info: DSL1,000mg/ml

Instrument: GCO.i
Operator: Mom
Column diameter: 0.53

Column phase: RTX-5



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060427\O0427011.D
Lab Smp Id: DSL2.500mg/ml
Inj Date : 27-APR-2006 21:42
Operator : Mcm Inst ID: GCO.i
Smp Info : DSL2.500mg/ml
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060427_FCTPH_060427.m
Meth Date : 28-Apr-2006 08:18 mmontemayo Quant Type: ESTD
Cal Date : 27-APR-2006 15:25 Cal File: O0427006.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

MCM 4/28/06

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/mL)	(mg/mL)
S	1 C6 - C12 GRO	1.600-10.757			5844706	0.66453	0.66453(A)
S	2 C13 - C22 DRO	11.633-20.727			25291824	2.87485	2.8748
S	3 C23 - C32 HRO	21.077-27.160			427464	0.04861	0.048605
$	4 OCTACOSANE	24.663	24.603	0.060	3039568	0.47671	0.47671(AR)
$	5 TRIACONTANE	25.826	25.766	0.060	2908402	0.52132	0.52132(AR)
M	6 Total Petroleum Hydrocarbons				31563994	3.58798	3.5880

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

AM 5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427011.D

Date : 27-APR-2006 21:42

Client ID:

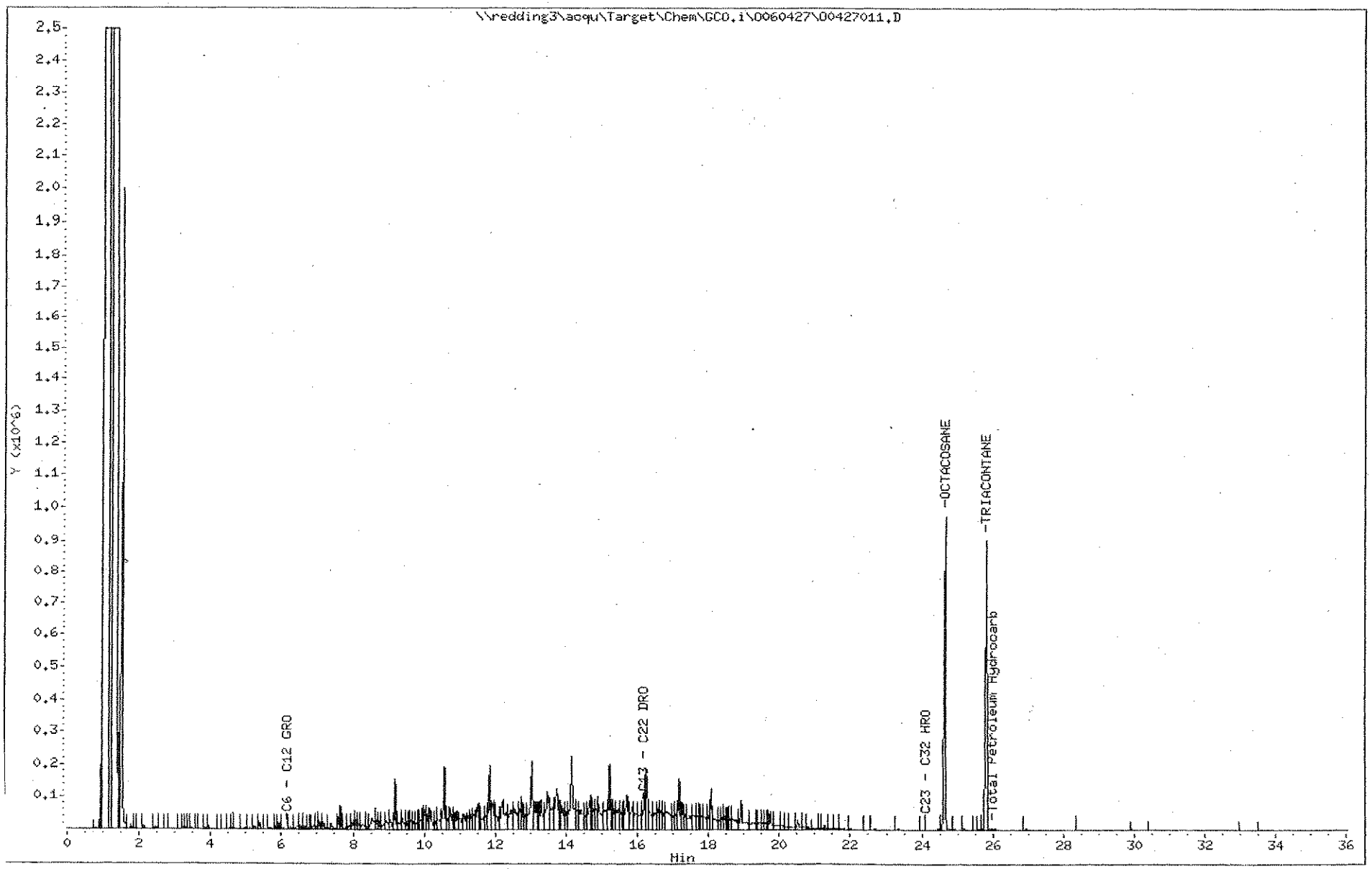
Instrument: GCO.i

Sample Info: DSL2,500mg/ml

Operator: Mcm

Column phase: RTX-5

Column diameter: 0.53



Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060427\O0427012.D
Lab Smp Id: DSL4.000mg/ml
Inj Date : 27-APR-2006 22:34
Operator : Mcm Inst ID: GCO.i
Smp Info : DSL4.000mg/ml
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060427_FCTPH_060427.m
Meth Date : 28-Apr-2006 08:18 mmontemayo Quant Type: ESTD
Cal Date : 27-APR-2006 15:25 Cal File: O0427006.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

MCM 5/2/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	FINAL (mg/mL)
S	1 C6 - C12 GRO	1.600-10.757			9181452	1.04391	1.0439(A)
S	2 C13 - C22 DRO	11.633-20.727			39981586	4.54459	4.5446(A)
S	3 C23 - C32 HRO	21.077-27.160			609165	0.06927	0.069266
$	4 OCTACOSANE	24.670	24.603	0.067	3566153	0.55929	0.55929(AR)
$	5 TRIACONTANE	25.833	25.766	0.067	3422301	0.61344	0.61344(AR)
M	6 Total Petroleum Hydrocarbons				49772203	5.65776	5.6578

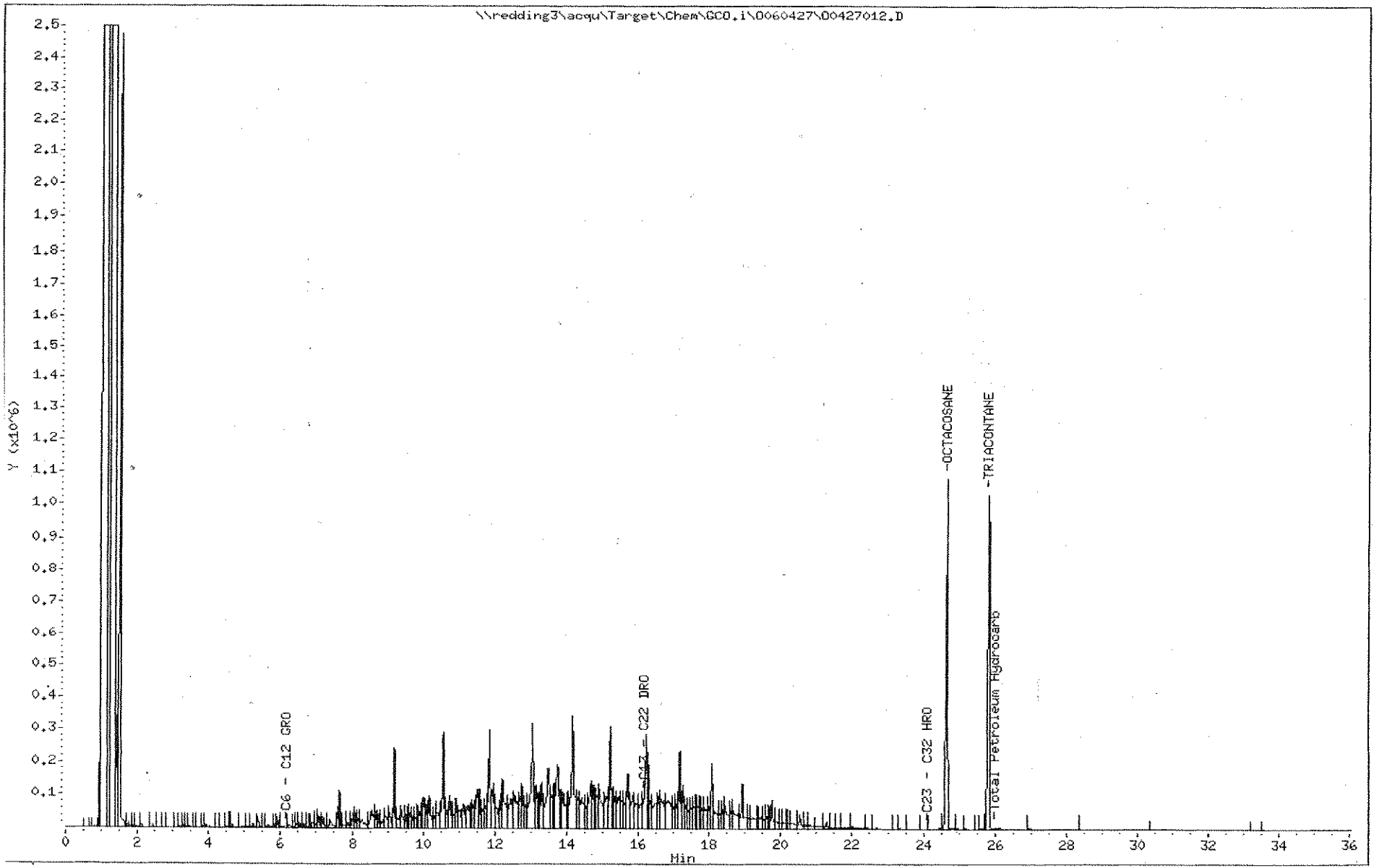
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

MM 5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427012.D
Date : 27-APR-2006 22:34
Client ID:
Sample Info: DSL4.000mg/ml

Instrument: GCO.i
Operator: Mcm
Column phase: RTX-5
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060427\O0427015.D
Lab Smp Id: DSL1.0mg/ml ICV
Inj Date : 28-APR-2006 01:07
Operator : Mcm Inst ID: GCO.i
Smp Info : DSL1.0mg/ml ICV
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060427_FCTPH_060427.m
Meth Date : 28-Apr-2006 10:44 mmontemayo Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

MCM 4/28/06

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/mL)	(mg/mL)
S	1 C6 - C12 GRO	1.600-10.757			3694184	1.00000	0.40474(A)
S	2 C13 - C22 DRO	11.633-20.727			8970991	1.00000	0.98288
S	3 C23 - C32 HRO	21.077-27.160			303591	1.00000	0.033262
$	4 OCTACOSANE	24.656	24.656	0.000	2490932	0.25000	0.25830
$	5 TRIACONTANE	25.820	25.820	0.000	2325351	0.25000	0.25553
M	6 Total Petroleum Hydrocarbons				12968766	2.00000	1.4209

QC Flag Legend

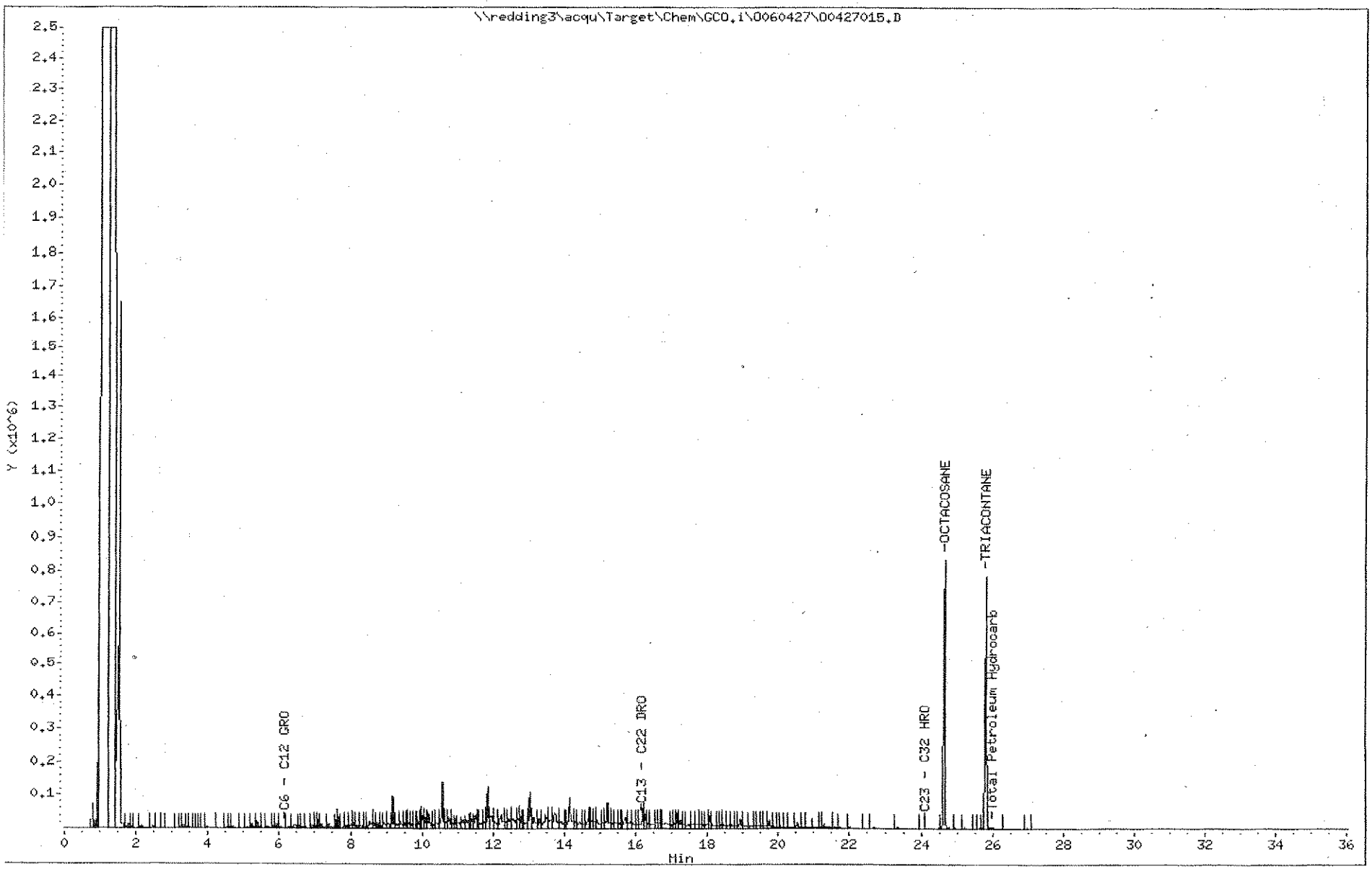
A - Target compound detected but, quantitated amount exceeded maximum amount.

PM 5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060427\00427015.D
Date : 28-APR-2006 01:07
Client ID:
Sample Info: DSL1.0mg/ml ICV

Instrument: GCO.i
Operator: Mcm
Column diameter: 0.53

Column phase: RTX-5



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\O0430011.D
Lab Smp Id: DSTD4 Client Smp ID: DSTD4
Inj Date : 30-APR-2006 21:49
Operator : MCM Inst ID: GCO.i
Smp Info : DSTD4
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-QA-1

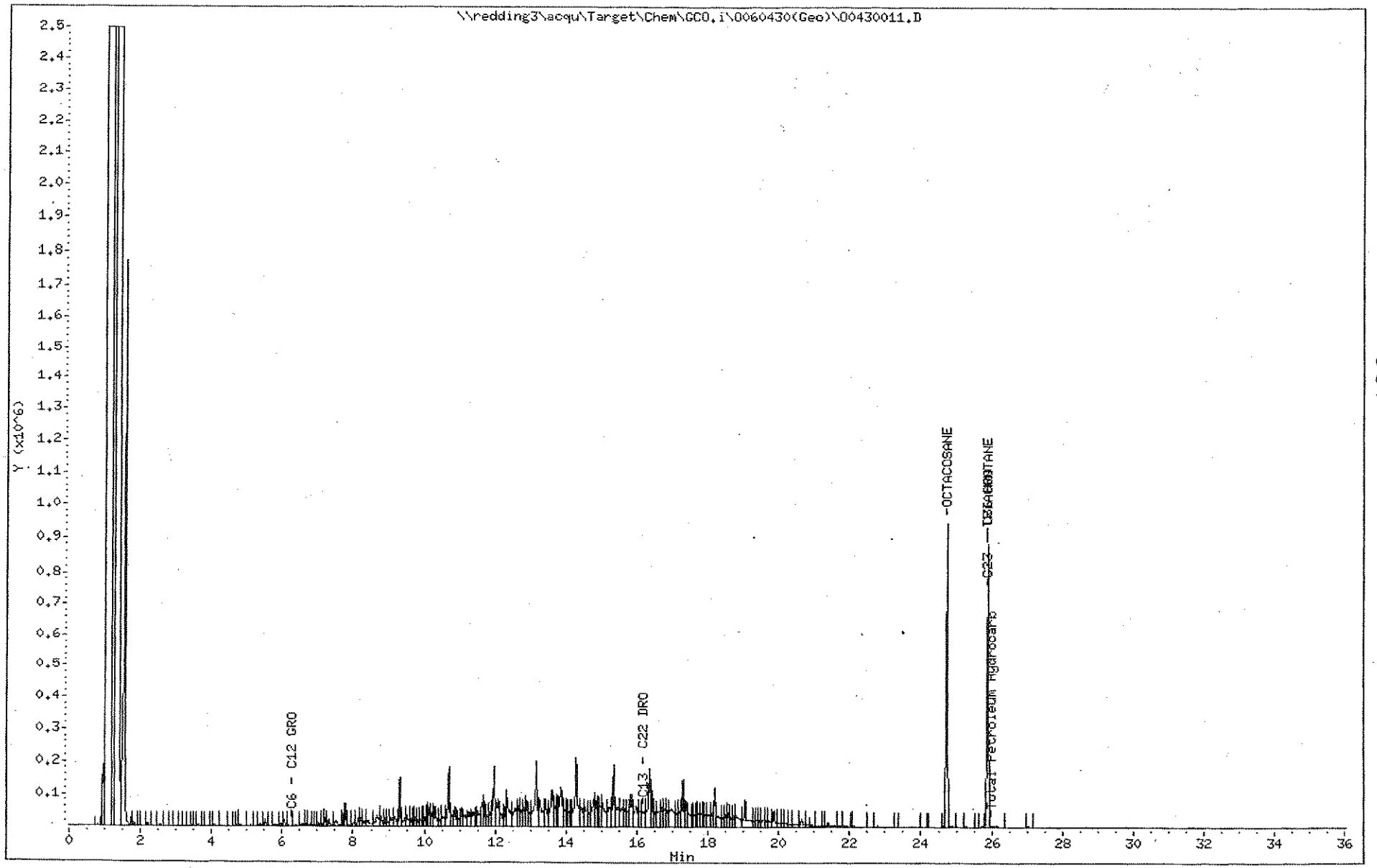
						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/mL)	(mg/mL)
S	1 C6 - C12 GRO	1.800-10.757			5042764	1.00000	0.55249
S	2 C13 - C22 DRO	11.633-20.727			24616698	1.00000	2.6970
S	3 C23 - C36 HRO	21.077-30.700			384977	1.00000	0.042179
S	4 OCTACOSANE	24.750	24.743	0.007	2868837	0.25000	0.29749
S	5 TRIACONTANE	25.900	25.893	0.007	2726073	0.25000	0.29956
M	6 Total Petroleum Hydrocarbons				30044439	2.00000	3.2917

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060430(Geo)\00430011.D
Date : 30-APR-2006 21:49
Client ID: DSTD4
Sample Info: DSTD4

Instrument: GCO.i

Operator: MCM
Column diameter: 0.53

Column phase: RTX-5



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\O0430021.D
Lab Smp Id: DSTD3 Client Smp ID: DSTD3
Inj Date : 01-MAY-2006 06:42
Operator : MCM Inst ID: GCO.i
Smp Info : DSTD3
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-QA-1

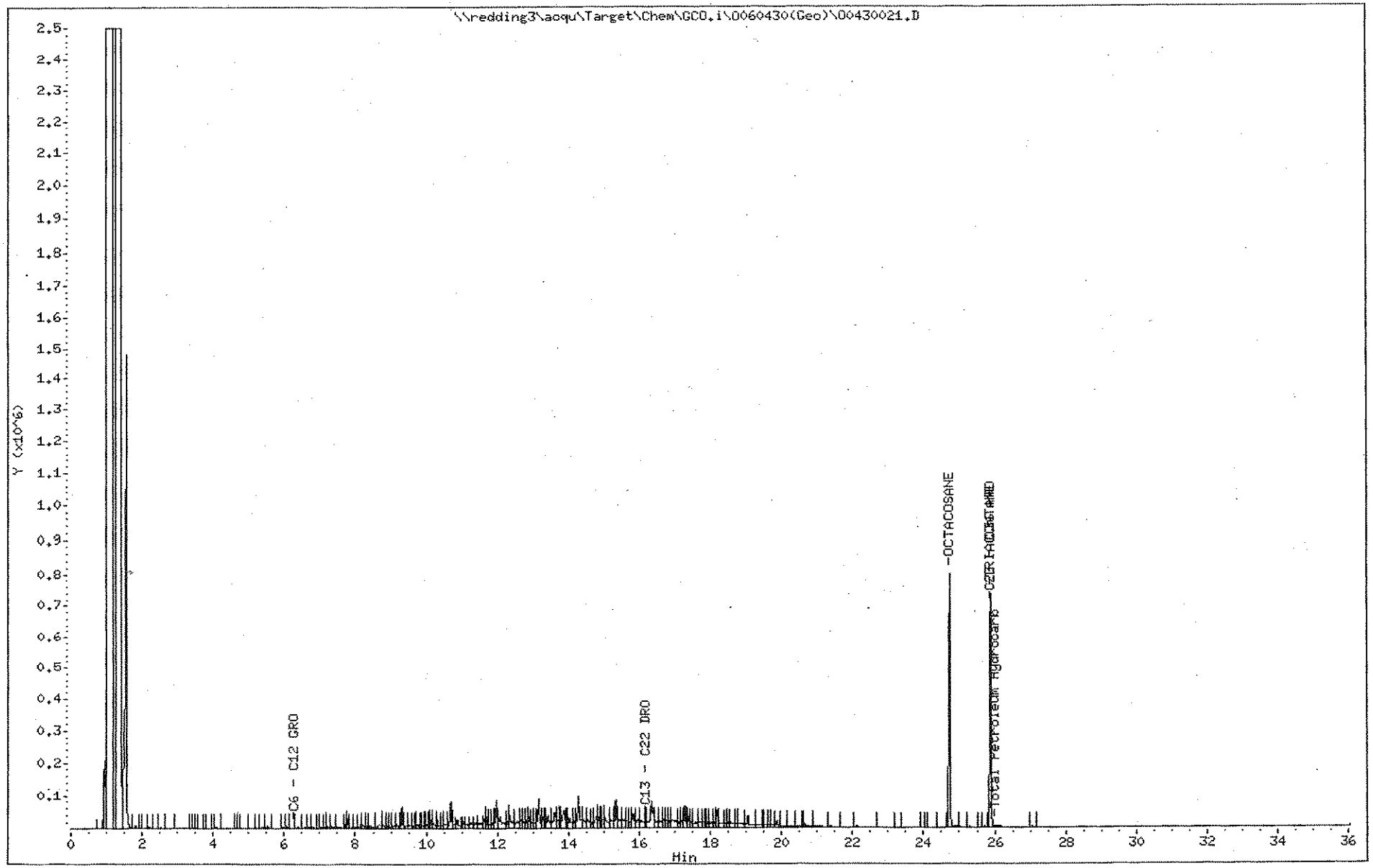
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/mL)	AMOUNTS ON-COL (mg/mL)
S	1 C6 - C12 GRO	1.800-10.757			2029997	1.00000	0.22241
S	2 C13 - C22 DRO	11.633-20.727			9936119	1.00000	1.0886
S	3 C23 - C36 HRO	21.077-30.700			122862	1.00000	0.013461
S	4 OCTACOSANE	24.743	24.743	0.000	2311096	0.25000	0.23965
M	6 Total Petroleum Hydrocarbons				12088978	2.00000	1.3245

Data File: \\redding3\acqu\Target\Chem\GCO,i\0060430(Geo)\00430021.D
Date : 01-MAY-2006 06:42
Client ID: DSTD3
Sample Info: DSTD3

Instrument: GCO,i

Operator: HCM
Column diameter: 0.53

Column phase: RTX-5



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)\O0506004.D
Lab Smp Id: DSTD3 Client Smp ID: DSTD3
Inj Date : 06-MAY-2006 13:36
Operator : MCM Inst ID: GCO.i
Smp Info : DSTD3
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)_FCTPH_060427.m
Meth Date : 10-May-2006 11:56 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1000.000	Correction Factor (PPM to PPB)
Vt	1.000	Volume of final extract (mL)
Vo	1.000	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

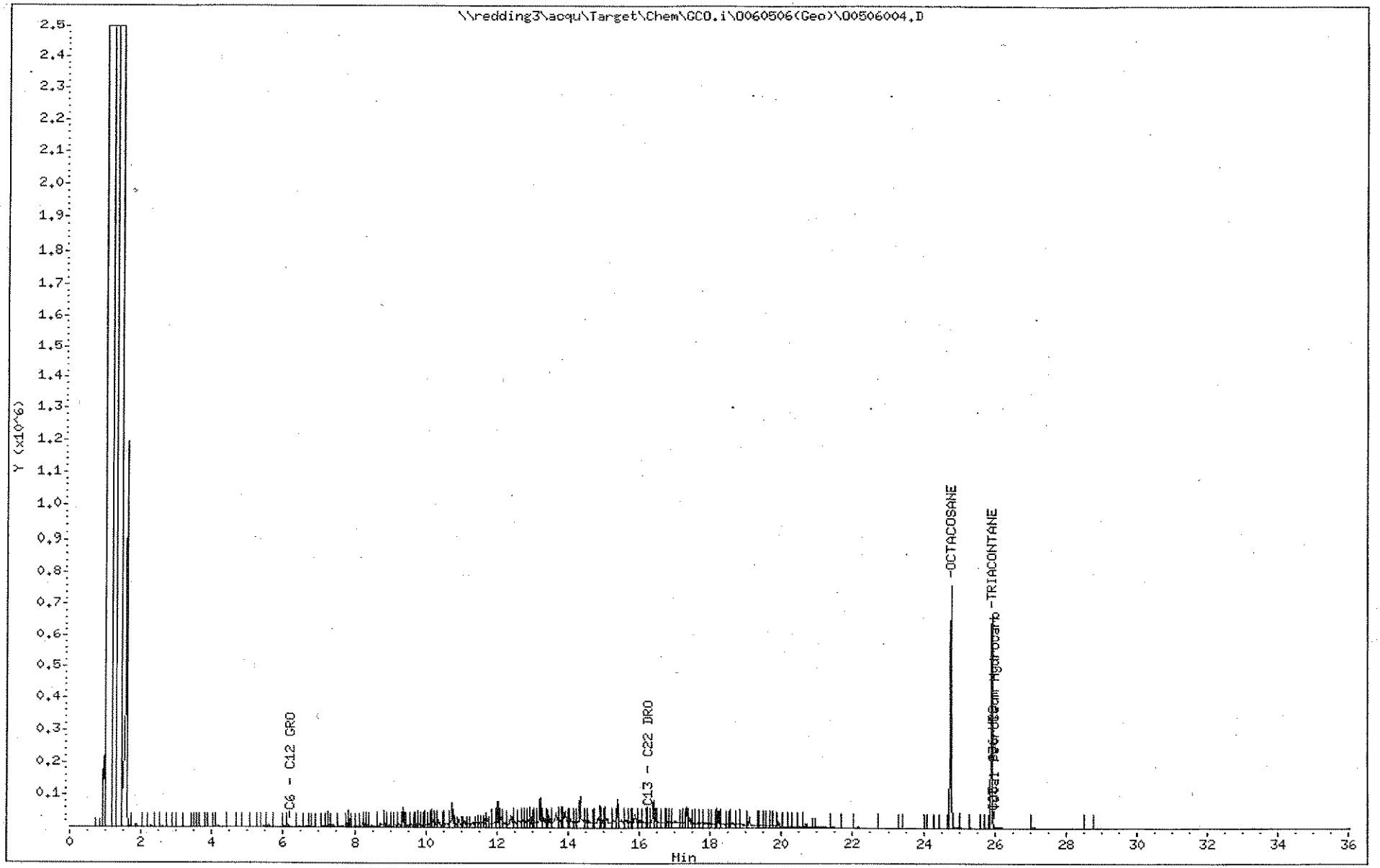
		Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/mL)	AMOUNTS ON-COL (mg/mL)
S	1	C6 - C12 GRO	1.800-10.658			1709940	1.00000	0.18734(a)
S	2	C13 - C22 DRO	11.925-20.619			9464831	1.00000	1.0370
S	3	C23 - C36 HRO	21.347-30.618			174962	1.00000	0.019169(a)
$	4	OCTACOSANE	24.776	24.780	-0.004	2151742	0.25000	0.22313
$	5	TRIACONTANE	25.920	25.923	-0.003	1869803	0.25000	0.20547
M	6	Total Petroleum Hydrocarbons				11349733	2.00000	1.2435

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060506(Geo)\00506004.D
Date : 06-MAY-2006 13:36
Client ID: DSTD3
Sample Info: DSTD3
Purge Volume: 1.0
Column phase: RTX-5

Instrument: GCO.i
Operator: MCM
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)\O0506015.D
Lab Smp Id: DSTD4 Client Smp ID: DSTD4
Inj Date : 06-MAY-2006 23:44
Operator : MCM Inst ID: GCO.i
Smp Info : DSTD4
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)_FCTPH_060427.m
Meth Date : 10-May-2006 11:56 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 15 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-GS-3

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1000.000	Correction Factor (PPM to PPB)
Vt	1.000	Volume of final extract (mL)
Vo	1.000	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

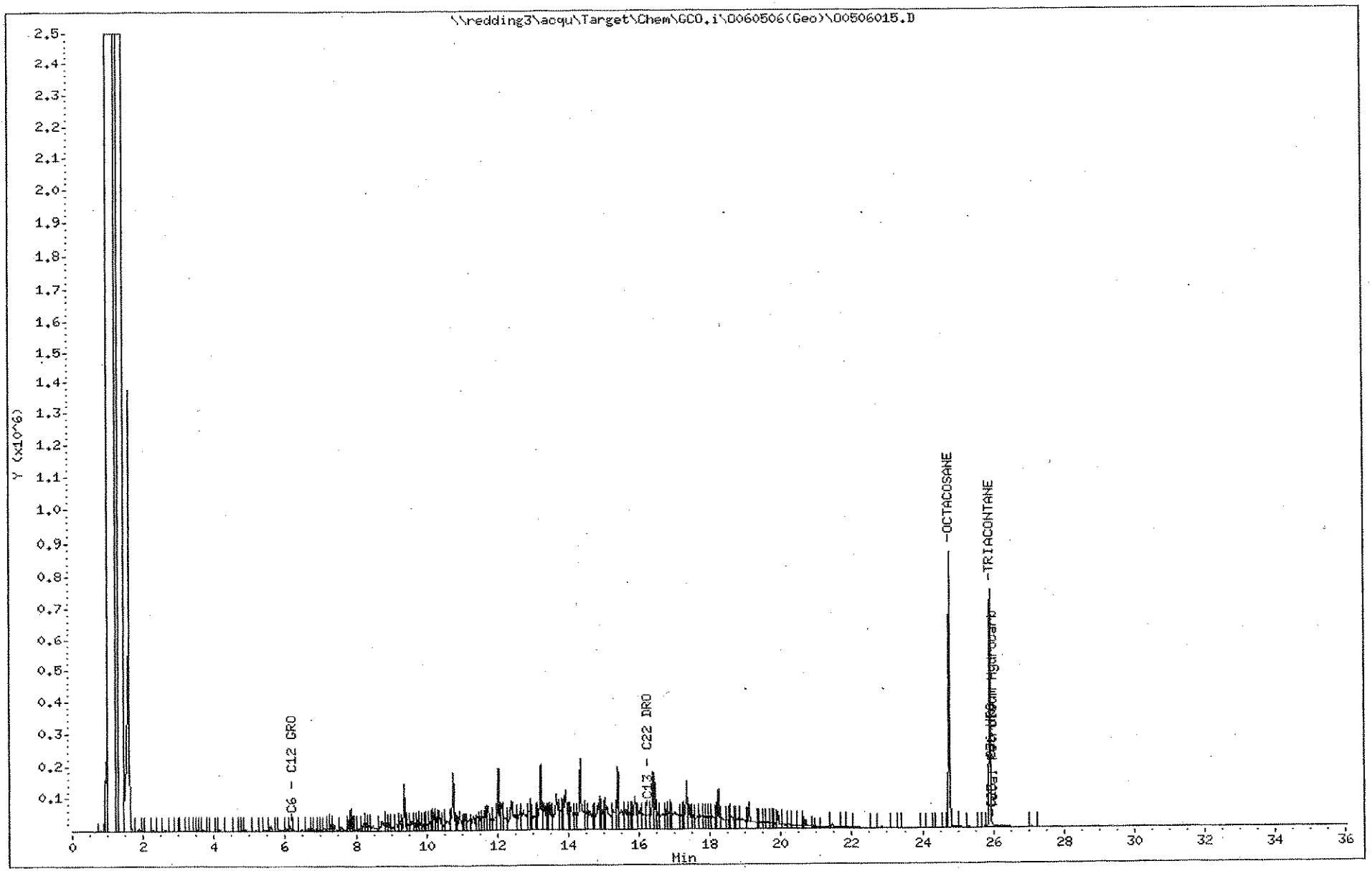
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/mL)	AMOUNTS ON-COL (mg/mL)
S	1 C6 - C12 GRO	1.800-10.658			4163051	1.00000	0.45611(a)
S	2 C13 - C22 DRO	11.925-20.619			22928189	1.00000	2.5120
S	3 C23 - C36 HRO	21.347-30.618			274559	1.00000	0.030081(a)
S	4 OCTACOSANE	24.780	24.780	0.000	2517314	0.25000	0.26104
M	6 Total Petroleum Hydrocarbons				27365799	2.00000	2.9982

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060506(Geo)\00506015.D
Date : 06-MAY-2006 23:44
Client ID: DSTD4
Sample Info: DSTD4
Purge Volume: 1.0
Column phase: RTX-5

Instrument: GCO.i
Operator: HCH
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)\O0506007.D
Lab Smp Id: L0600641-01 Client Smp ID: T-49-5.5B
Inj Date : 06-MAY-2006 16:23
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-01
Misc Info : ;050206S;02-MAY-06;;10.0;10;14;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)_FCTPH_060427.m
Meth Date : 10-May-2006 11:56 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inhouse.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Cf*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Cf	1000.000	Conversion Factor (g to Kg)
Vt	10.000	FinalVolume (mL)
Ws	10.000	SampleWeight (g)
M	14.000	Moisture (%)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/Kg)
S	1 C6 - C12 GRO	Compound Not Detected.					
S	2 C13 - C22 DRO	Compound Not Detected.					
S	3 C23 - C36 HRO	21.347-30.618			105916	0.01160	13.493(a)
S	4 OCTACOSANE	24.776	24.780	-0.004	2198044	0.22801	265.13
M	6 Total Petroleum Hydrocarbons	Compound Not Detected.					

5/10/06

5/11/06

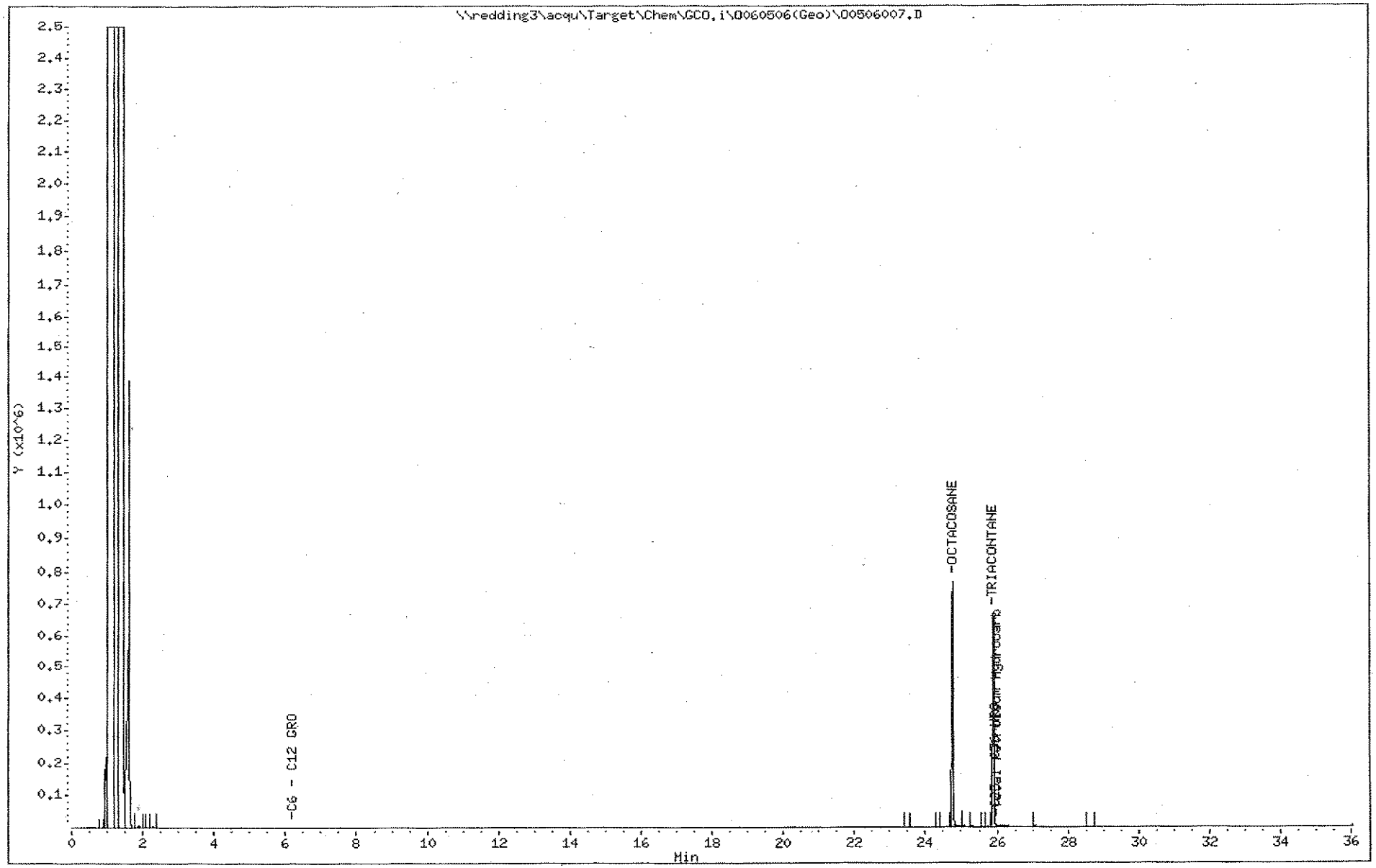
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060506(Geo)\00506007.D
Date : 06-MAY-2006 16:23
Client ID: T-49-5.5B
Sample Info: L0600641-01

Instrument: GCO.i
Operator: MCM
Column diameter: 0.53

Column phase: RTX-5



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\O0430014.D
Lab Smp Id: L0600641-002 Client Smp ID: T-49 GW-11
Inj Date : 01-MAY-2006 00:29
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-002
Misc Info : ;042006W;20-APR-06;;;;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: fcX.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Vt	3.000	Volume of final extract (mL)
Vo	0.03000	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

5/10/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	FINAL (mg/L)
S	1 C6 - C12 GRO	1.800-10.757			33218	0.00364	0.36394(a)
S	2 C13 - C22 DRO	Compound Not Detected.					
S	3 C23 - C36 HRO	21.077-30.700			60032	0.00658	0.65772(a)
$	4 OCTACOSANE	24.756	24.743	0.013	3140893	0.32570	32.570
M	6 Total Petroleum Hydrocarbons				93250	0.01022	1.0217(a)

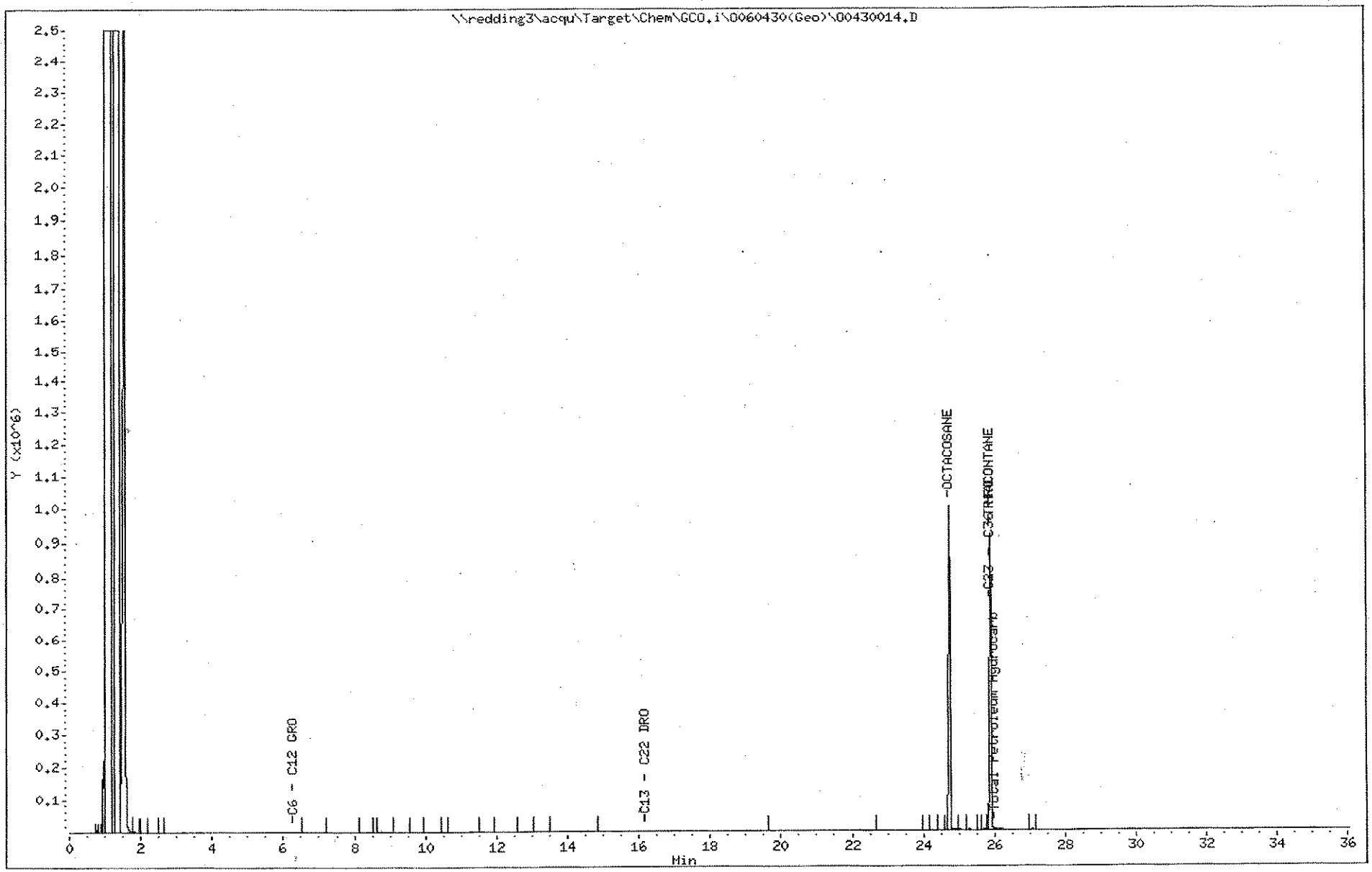
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060430(Geo)\00430014.D
Date : 01-MAY-2006 00:29
Client ID: T-49 GW-11
Sample Info: L0600641-002
Purge Volume: 0.0
Column phase: RTX-5

Instrument: GCO.i
Operator: MCM
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)\O0506008.D
Lab Smp Id: L0600641-03 Client Smp ID: T-47-GT
Inj Date : 06-MAY-2006 17:19
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-03
Misc Info : ;050206S;02-MAY-06;;10.0;10;18;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)_FCTPH_060427.m
Meth Date : 10-May-2006 11:56 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inhouse.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Cf*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Cf	1000.000	Conversion Factor (g to Kg)
Vt	10.000	FinalVolume (mL)
Ws	10.000	SampleWeight (g)
M	18.000	Moisture (%)
Cpnd Variable		Local Compound Variable

		Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/Kg)
S	1	C6 - C12 GRO	Compound Not Detected.					
S	2	C13 - C22 DRO	Compound Not Detected.					
S	3	C23 - C36 HRO	21.347-30.618			90224	0.00989	12.055(a)
$	4	OCTACOSANE	24.776	24.780	-0.004	2194819	0.22760	277.56
M	6	Total Petroleum Hydrocarbons	Compound Not Detected.					

5/10/06

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

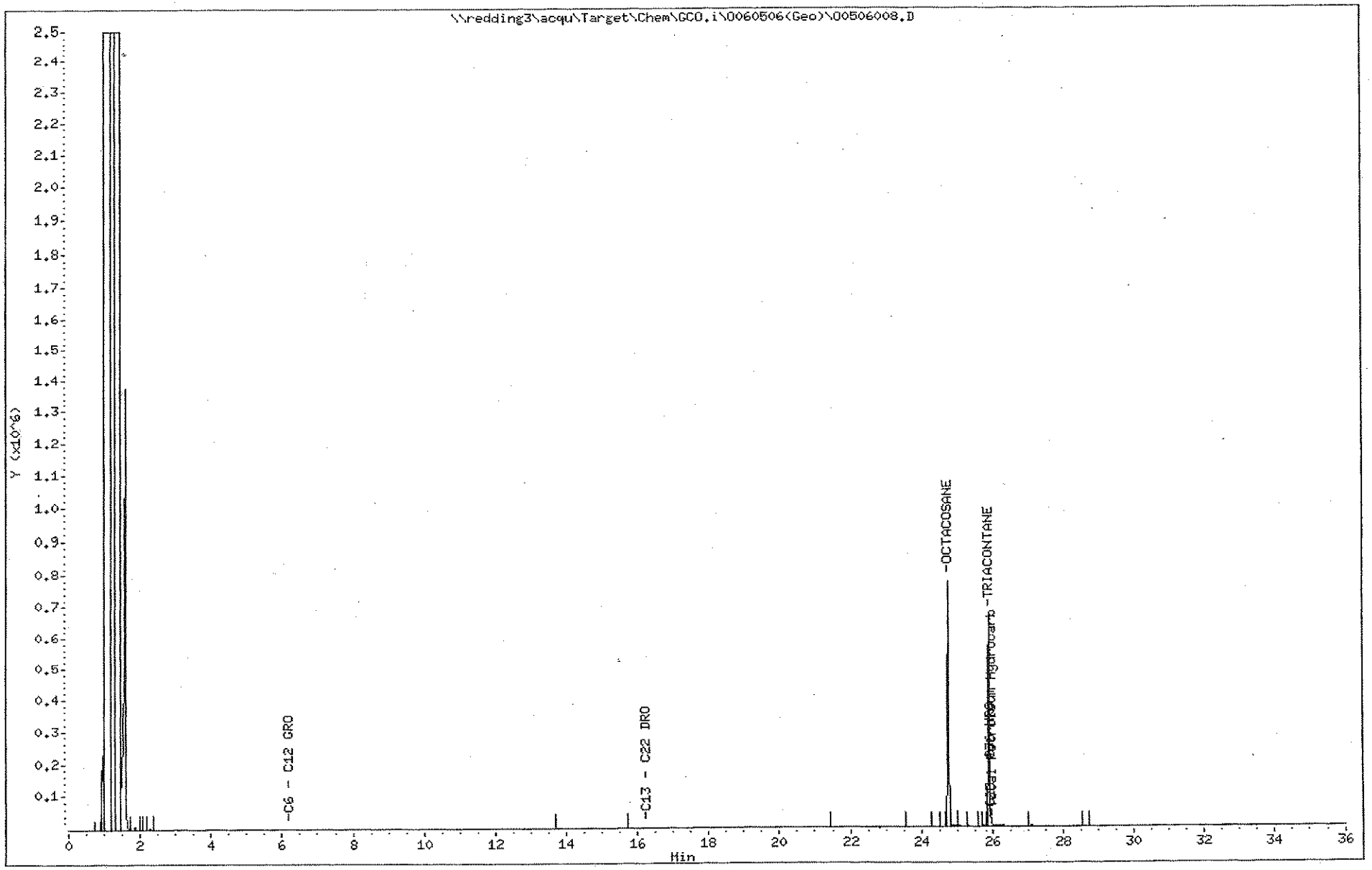
5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060506(Geo)\00506008.D
Date : 06-MAY-2006 17:19
Client ID: T-47-GT
Sample Info: L0600641-03

Instrument: GCO.i

Operator: MCM
Column diameter: 0.53

Column phase: RTX-5



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)\O0506009.D
Lab Smp Id: L0600641-03MS Client Smp ID: T-47-GTMS
Inj Date : 06-MAY-2006 18:15
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-03MS
Misc Info : ;050206S;02-MAY-06;;10.0;10;18;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)_FCTPH_060427.m
Meth Date : 10-May-2006 11:56 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inhouse.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Cf*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Cf	1000.000	Conversion Factor (g to Kg)
Vt	10.000	FinalVolume (mL)
Ws	10.000	SampleWeight (g)
M	18.000	Moisture (%)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/Kg)
S	1 C6 - C12 GRO	1.800-10.658			1740896	0.19074	232.60
S	2 C13 - C22 DRO	11.925-20.619			9551658	1.04650	1276.2
S	3 C23 - C36 HRO	21.347-30.618			155378	0.01702	20.760(a)
$	4 OCTACOSANE	24.773	24.780	-0.007	2058296	0.21344	260.29
M	6 Total Petroleum Hydrocarbons				11447932	1.25426	1529.6

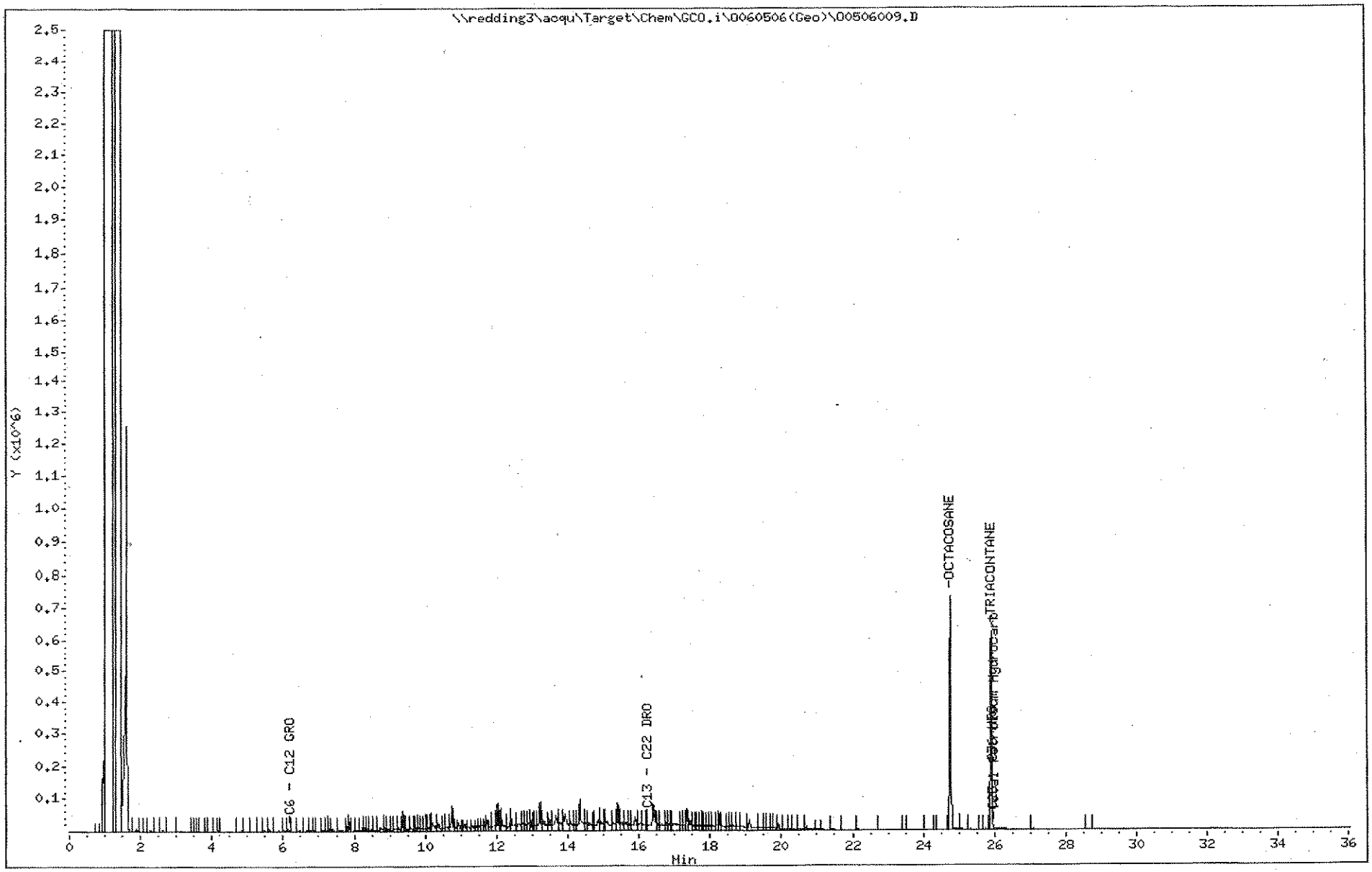
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060506(Geo)\00506009.D
Date : 06-MAY-2006 18:15
Client ID: T-47-GTMS
Sample Info: L0600641-03MS

Instrument: GCO.i
Operator: MCM
Column diameter: 0.53

Column phase: RTX-5



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)\00506010.D
Lab Smp Id: L0600641-03MSD Client Smp ID: T-47-GTMSD
Inj Date : 06-MAY-2006 19:10
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-03MSD
Misc Info : ;050206S;02-MAY-06;;10.0;10;18;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)_FCTPH_060427.m
Meth Date : 10-May-2006 11:56 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inhouse.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Cf*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Cf	1000.000	Conversion Factor (g to Kg)
Vt	10.000	FinalVolume (mL)
Ws	10.000	SampleWeight (g)
M	18.000	Moisture (%)
Cpnd Variable		Local Compound Variable

5/10/06

						CONCENTRATIONS	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/mL)	FINAL (mg/Kg)
S	1 C6 - C12 GRO	1.800-10.658			1718943	0.18833	229.67
S	2 C13 - C22 DRO	11.925-20.619			9403676	1.03028	1256.4
S	3 C23 - C36 HRO	21.347-30.618			159124	0.01743	21.261(a)
$	4 OCTACOSANE	24.776	24.780	-0.004	2185974	0.22668	276.44
M	6 Total Petroleum Hydrocarbons				11281743	1.23605	1507.4

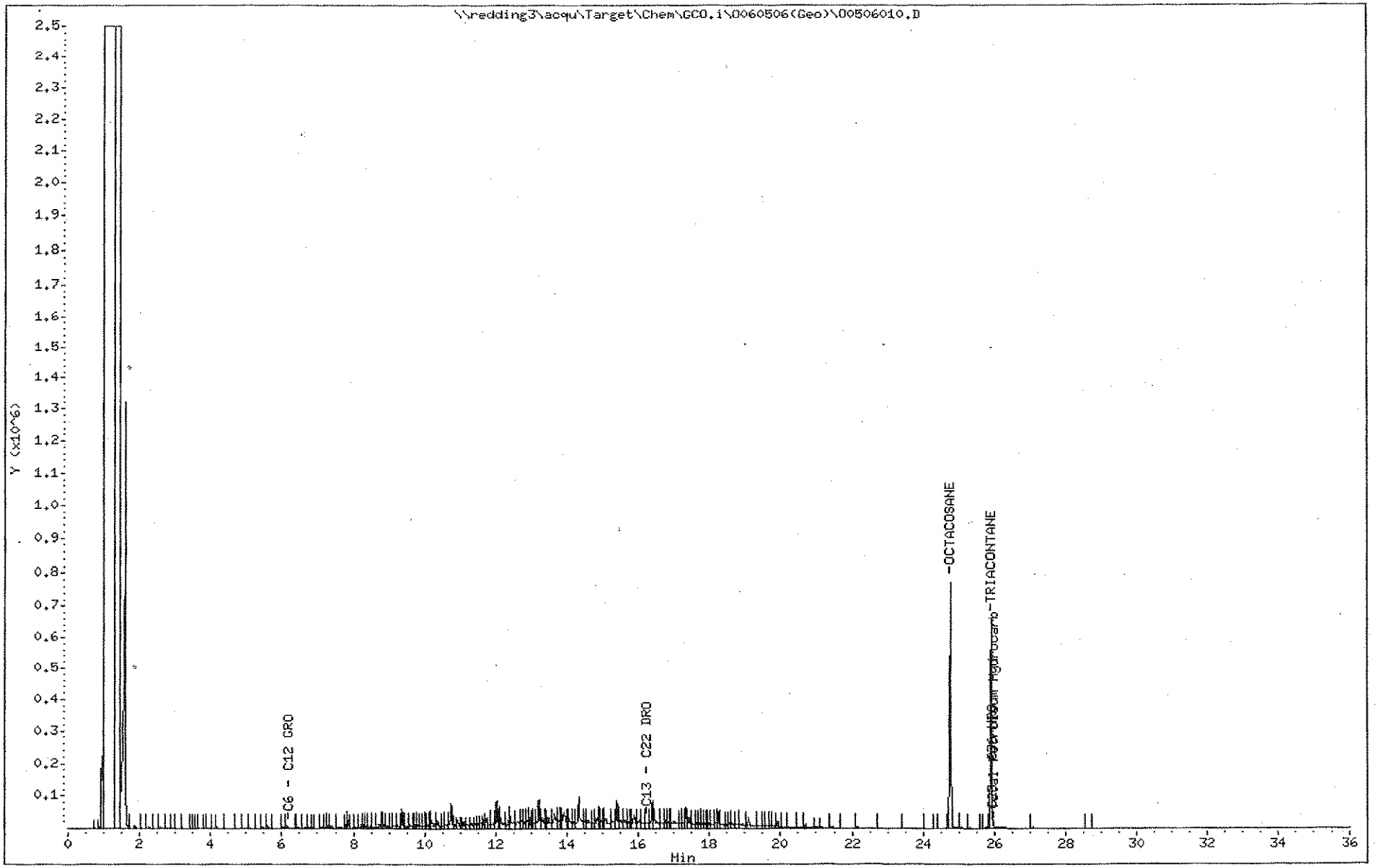
QC Flag Legend

5/11/06

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\00606506(Geo)\00506010.D
Date : 06-MAY-2006 19:10
Client ID: T-47-GTMSD
Sample Info: L0600641-03MSD

Instrument: GCO.i
Operator: HCM
Column phase: RTX-5
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\O0430015.D
Lab Smp Id: L0600641-004 Client Smp ID: T-47 GW-11
Inj Date : 01-MAY-2006 01:22
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-004
Misc Info : ;042006W;20-APR-06;;;;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: fcX.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Vt	3.000	Volume of final extract (mL)
Vo	0.03000	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

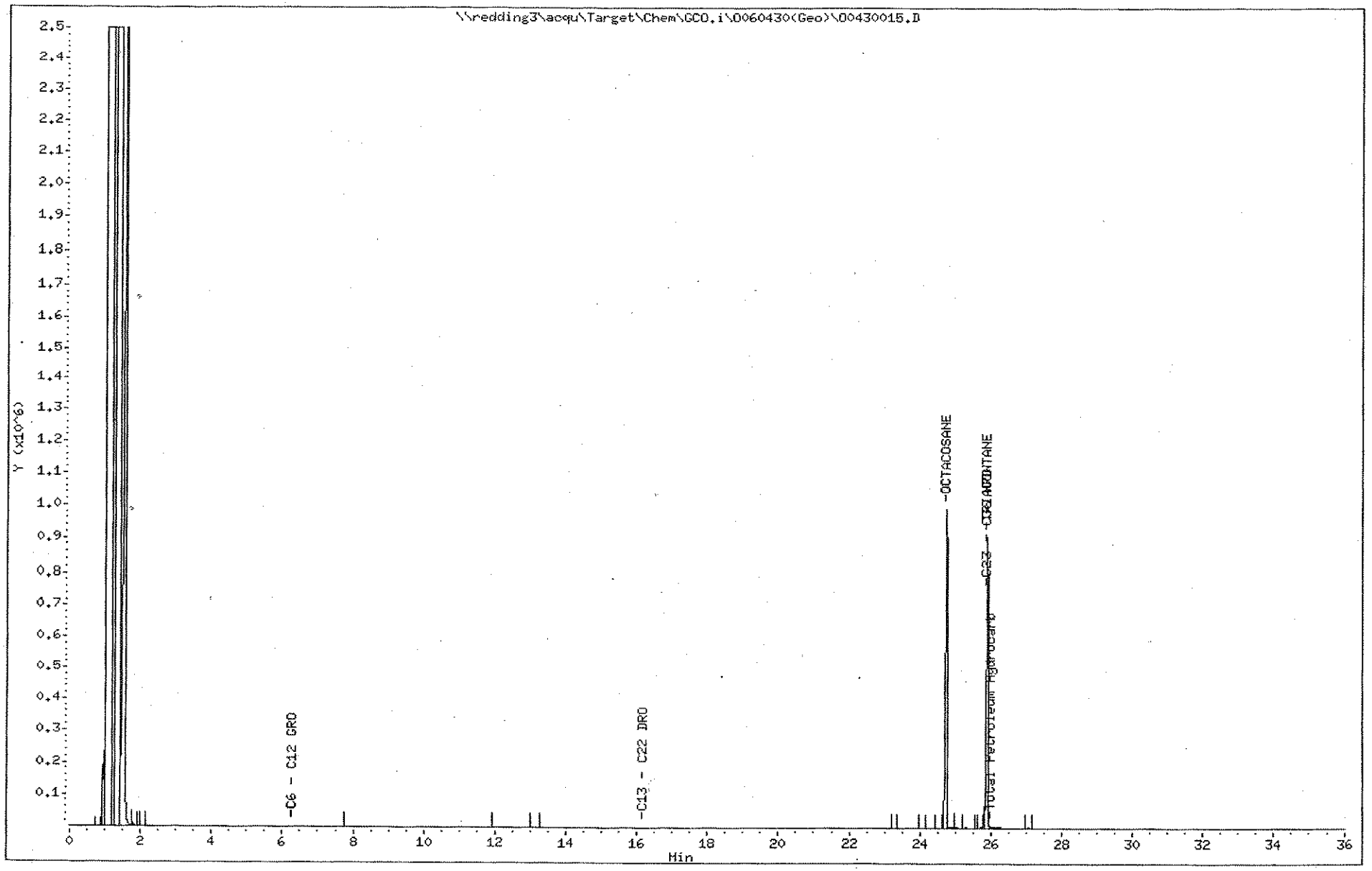
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/L)
S	1 C6 - C12 GRO	1.800-10.757			24596	0.00269	0.26948(a)
S	2 C13 - C22 DRO	Compound Not Detected.					
S	3 C23 - C36 HRO	21.077-30.700			48024	0.00526	0.52616(a)
$	4 OCTACOSANE	24.753	24.743	0.010	3056686	0.31697	31.697
M	6 Total Petroleum Hydrocarbons				72620	0.00796	0.79564(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060430(Geo)\00430015.D
Date : 01-MAY-2006 01:22
Client ID: T-47 GW-11
Sample Info: L0600641-004
Purge Volume: 0.0
Column phase: RTX-5

Instrument: GCO.i
Operator: MCH
Column diameter: 0.53



Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)\O0506011.D
Lab Smp Id: L0600641-05 Client Smp ID: T-48-6B
Inj Date : 06-MAY-2006 20:06
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-05
Misc Info : ;050206S;02-MAY-06;;10.1;10;17;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)_FCTPH_060427.m
Meth Date : 10-May-2006 11:56 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inhouse.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Cf*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Cf	1000.000	Conversion Factor (g to Kg)
Vt	10.000	FinalVolume (mL)
Ws	10.100	SampleWeight (g)
M	17.000	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/mL)	FINAL (mg/Kg)
S	1 C6 - C12 GRO	1.800-10.658			164019	0.01797	21.436
S	2 C13 - C22 DRO	Compound Not Detected.					
S	3 C23 - C36 HRO	21.347-30.618			1508408	0.16526	197.14
S	4 OCTACOSANE	24.776	24.780	-0.004	2203594	0.22851	272.58
M	6 Total Petroleum Hydrocarbons				1672427	0.18323	218.58

5/10/06

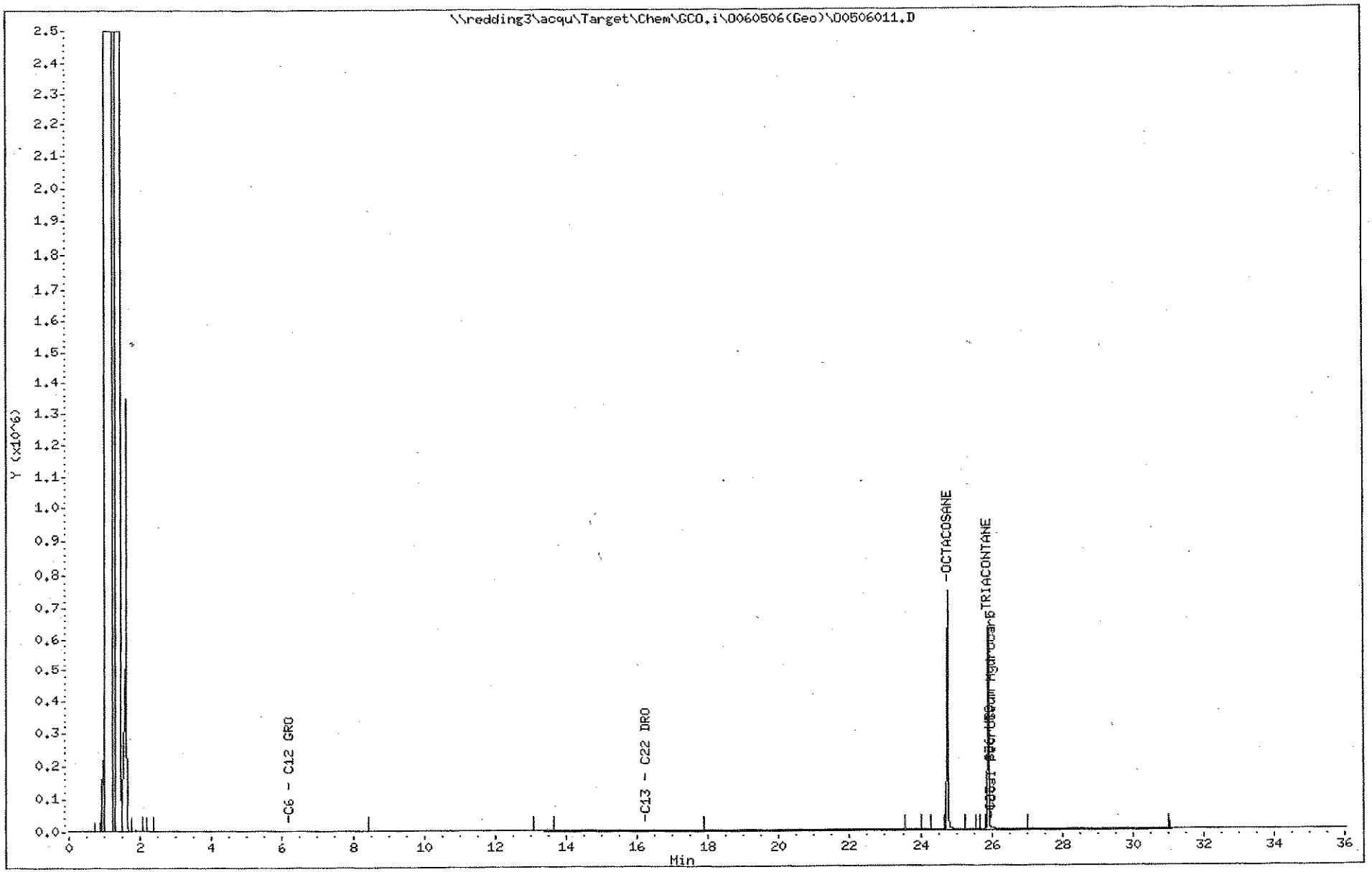
5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\D060506(Geo)\D0506011.D
Date : 06-MAY-2006 20:06
Client ID: T-48-6B
Sample Info: L0600641-05

Instrument: GCO.i

Operator: MCM
Column diameter: 0.53

Column phase: RTX-5



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\00430016.D
Lab Smp Id: L0600641-006 Client Smp ID: T-48 GW-11
Inj Date : 01-MAY-2006 02:15
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-006
Misc Info : ;042006W;20-APR-06;0.0301;;;;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: fcX.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Vt	3.000	Volume of final extract (mL)
Vo	0.03010	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

5/10/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/L)
S	1 C6 - C12 GRO	1.800-10.757			27013	0.00296	0.29498(a)
S	2 C13 - C22 DRO	Compound Not Detected.					
S	3 C23 - C36 HRO	21.077-30.700			36700	0.00402	0.40076(a)
S	4 OCTACOSANE	24.753	24.743	0.010	3211349	0.33301	33.190
M	6 Total Petroleum Hydrocarbone				63713	0.00698	0.69573(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

5/11/06

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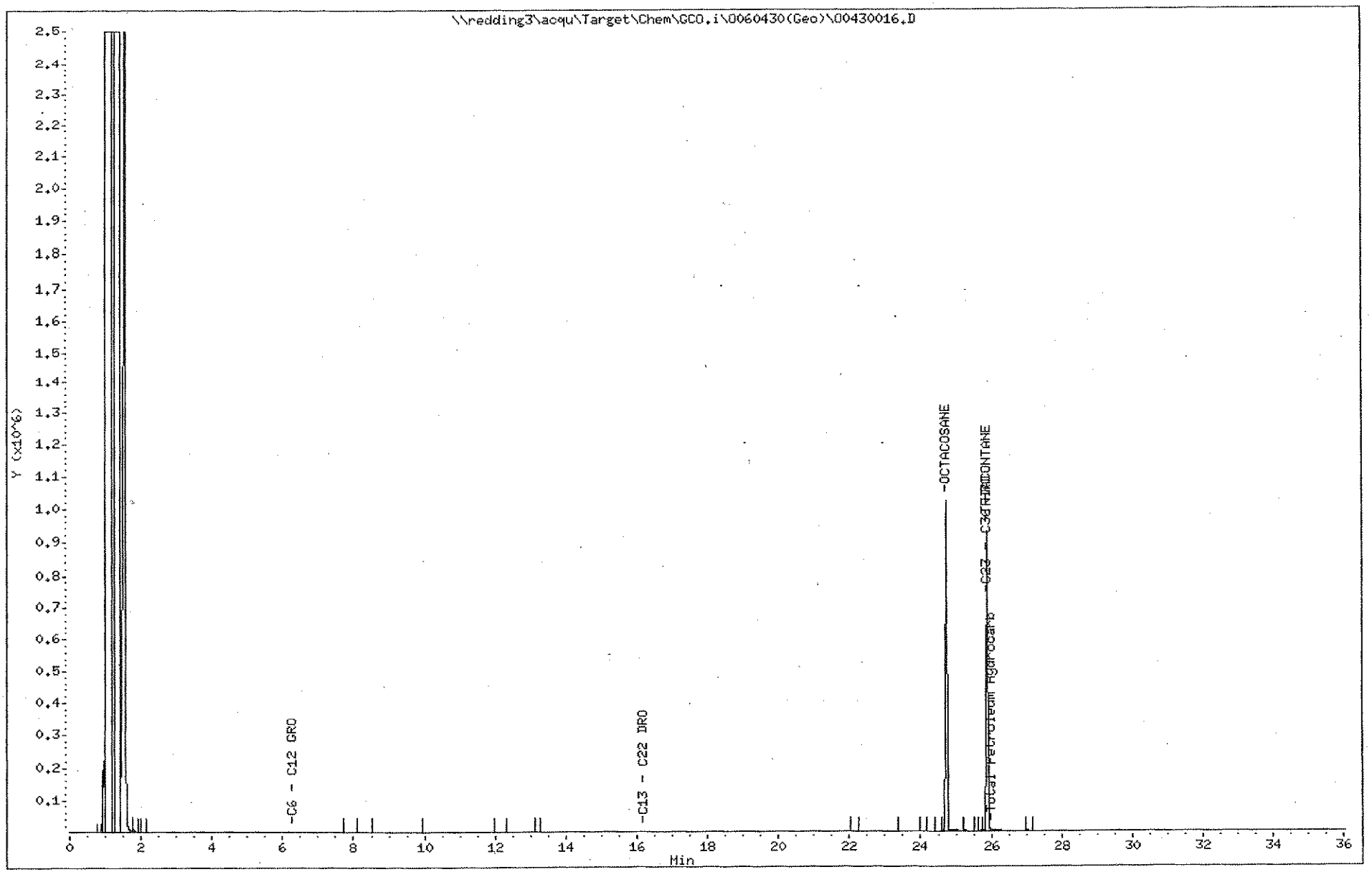
Data File: \\redding3\acqu\Target\Chem\GCO.i\0060430(Geo)\00430016.D
Date : 01-MAY-2006 02:15
Client ID: T-48 GW-11
Sample Info: L0600641-006
Purge Volume: 0.0
Column phase: RTX-5

Instrument: GCO.i
Operator: MCM
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\O0430017.D
Lab Smp Id: L0600641-007 Client Smp ID: T-48 GW-35
Inj Date : 01-MAY-2006 03:09
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-007
Misc Info : ;042006W;20-APR-06;;;;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: fcX.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

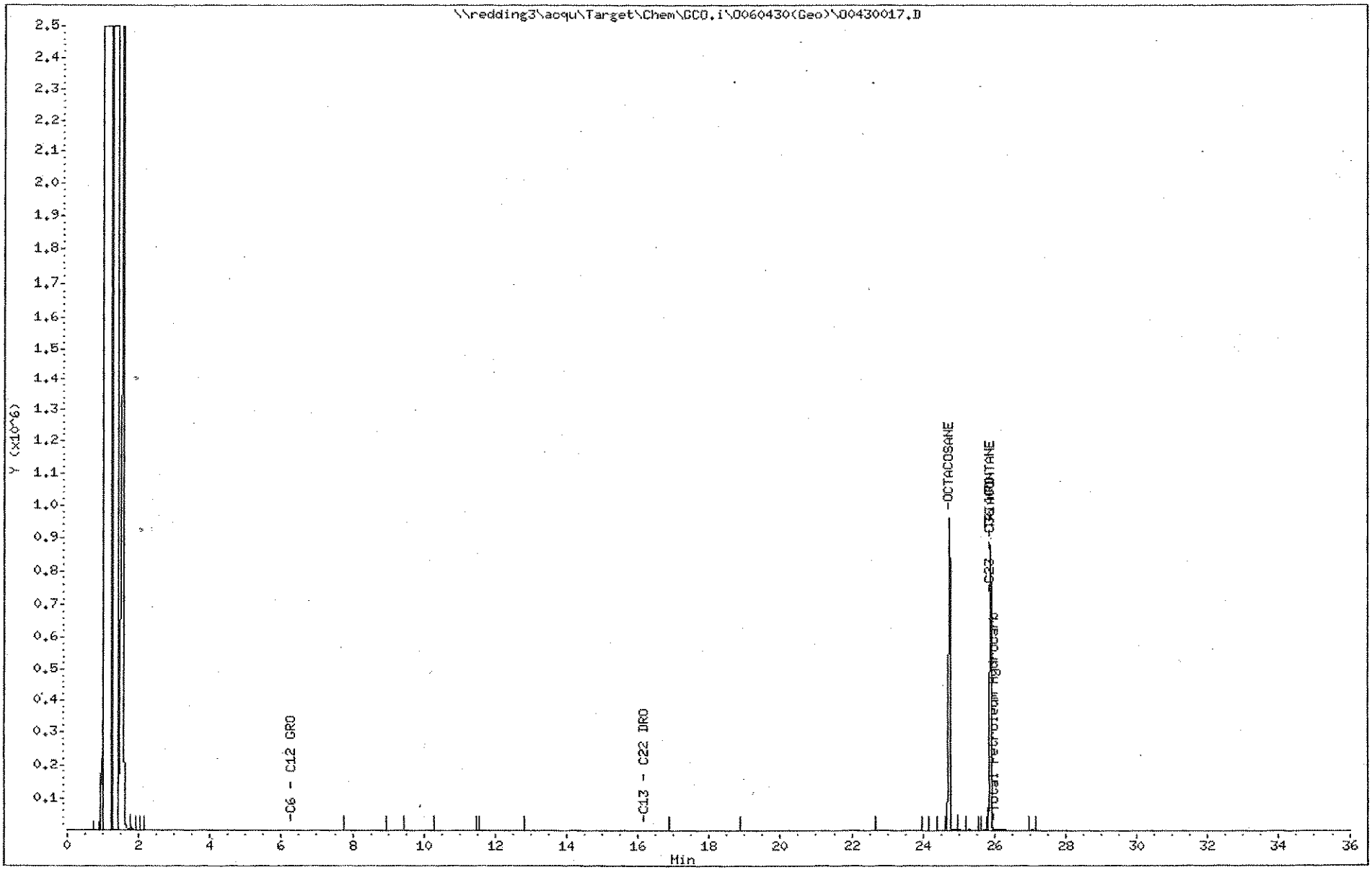
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Vt	3.000	Volume of final extract (mL)
Vo	0.03000	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/L)
S	1 C6 - C12 GRO	1.800-10.757			26239	0.00287	0.28748(a)
S	2 C13 - C22 DRO	Compound Not Detected.					
S	3 C23 - C36 HRO	21.077-30.700			56801	0.00622	0.62232(a)
S	4 OCTACOSANE	24.753	24.743	0.010	2976116	0.30861	30.861
M	6 Total Petroleum Hydrocarbons				83040	0.00910	0.90980(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060430(Geo)\00430017.D
Date : 01-MAY-2006 03:09
Client ID: T-48 GW-35
Instrument: GCO.i
Sample Info: L0600641-007
Purge Volume: 0.0
Operator: MCH
Column phase: RTX-5
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\O0430018.D
Lab Smp Id: L0600641-007MS Client Smp ID: T-48 GW-35MS
Inj Date : 01-MAY-2006 04:02
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-007MS
Misc Info : ;042006W;20-APR-06;;;;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 18 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: fcX.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Vt	3.000	Volume of final extract (mL)
Vo	0.03000	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

5/10/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/L)
S	1 C6 - C12 GRO	1.800-10.757			2249894	0.24650	24.650
S	2 C13 - C22 DRO	11.633-20.727			11073919	1.21328	121.33
S	3 C23 - C36 HRO	21.077-30.700			137968	0.01512	1.5116(a)
$	4 OCTACOSANE	24.750	24.743	0.007	2923549	0.30316	30.316
M	6 Total Petroleum Hydrocarbons				13461781	1.47490	147.49

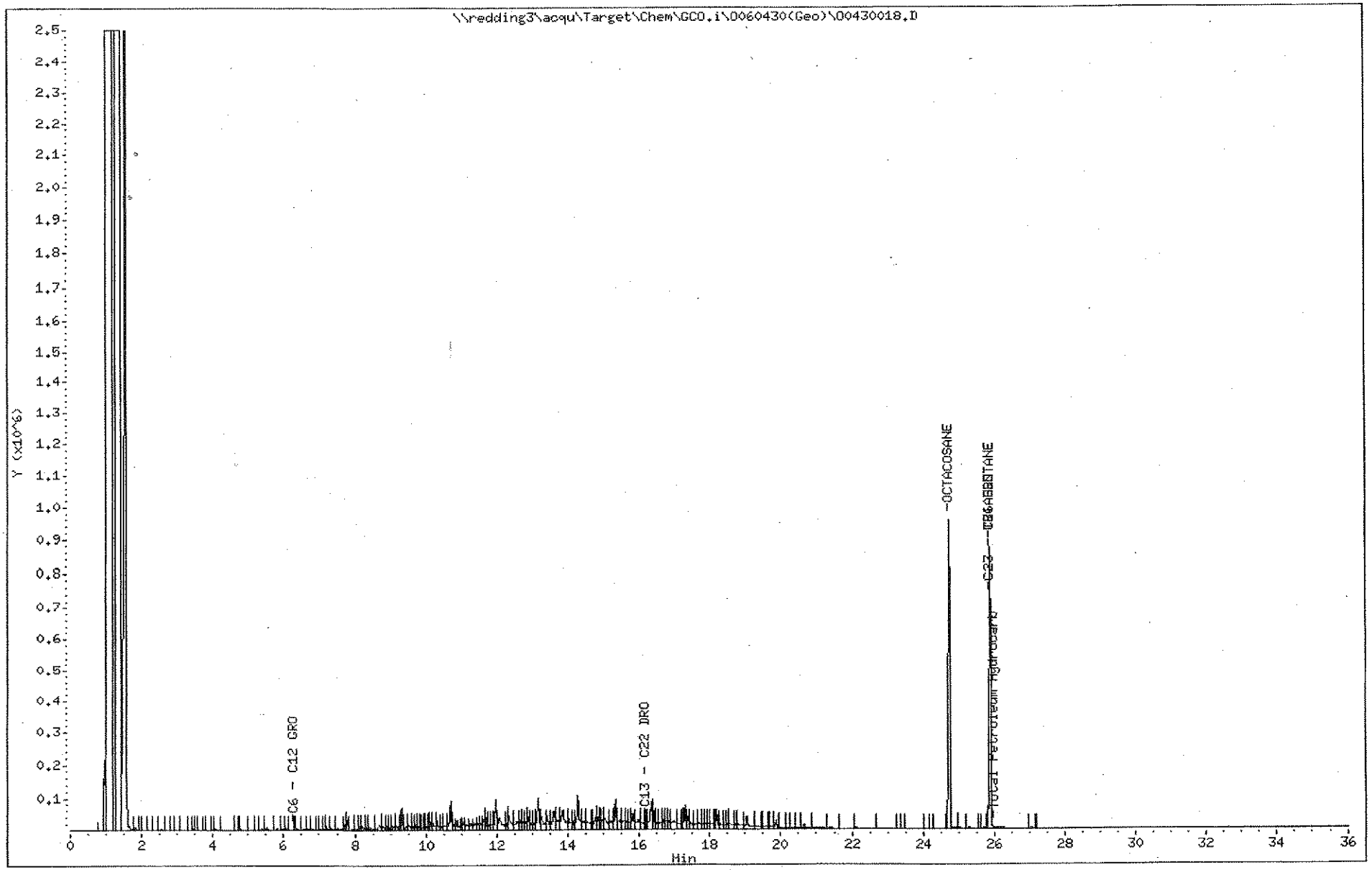
QC Flag Legend

JDH 5/11/06

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\D060430(Geo)\D0430018.D
Date : 01-MAY-2006 04:02
Client ID: T-48 GW-35MS
Sample Info: L0600641-007MS
Purge Volume: 0.0
Column phase: RTX-5

Instrument: GCO.i
Operator: MCM
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\O0430019.D
Lab Smp Id: L0600641-007MSD Client Smp ID: T-48 GW-35MSD
Inj Date : 01-MAY-2006 04:56
Operator : MCM Inst ID: GCO.i
Smp Info : L0600641-007MSD
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 19 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: fcX.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Vt	3.000	Volume of final extract (mL)
Vo	0.03010	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

5/10/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/L)
S	1 C6 - C12 GRO	1.800-10.757			2247392	0.24623	24.541
S	2 C13 - C22 DRO	11.633-20.727			11048939	1:21054	120.65
S	3 C23 - C36 HRO	21.077-30.700			138090	0.01513	1.5079(a)
S	4 OCTACOSANE	24.750	24.743	0.007	2863706	0.29696	29.597
M	6 Total Petroleum Hydrocarbons				13434421	1.47190	146.70

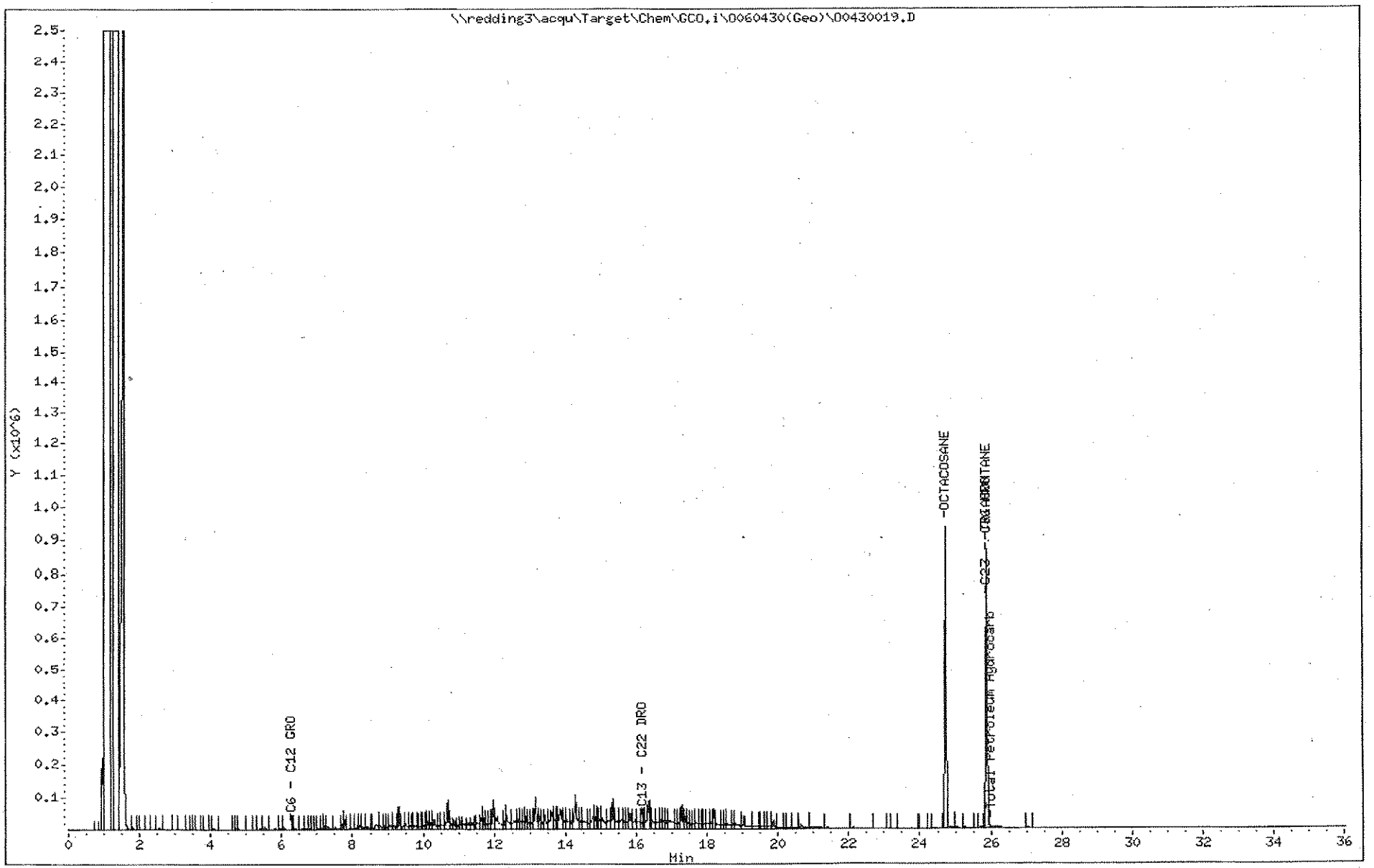
5/11/06

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060430(Geo)\00430019.D
Date : 01-MAY-2006 04:56
Client ID: T-48 GW-35MSD
Sample Info: L0600641-007MSD
Purge Volume: 0.0
Column phase: RTX-5

Instrument: GCO.i
Operator: MCM
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\O0430012.D
Lab Smp Id: DWB10420 Client Smp ID: DWB10420
Inj Date : 30-APR-2006 22:43
Operator : MCM Inst ID: GCO.i
Smp Info : DWB10420
Misc Info : DWB10420;042006W;20-APR-06;;;;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: fcX.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Vt	3.000	Volume of final extract (mL)
Vo	0.02990	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

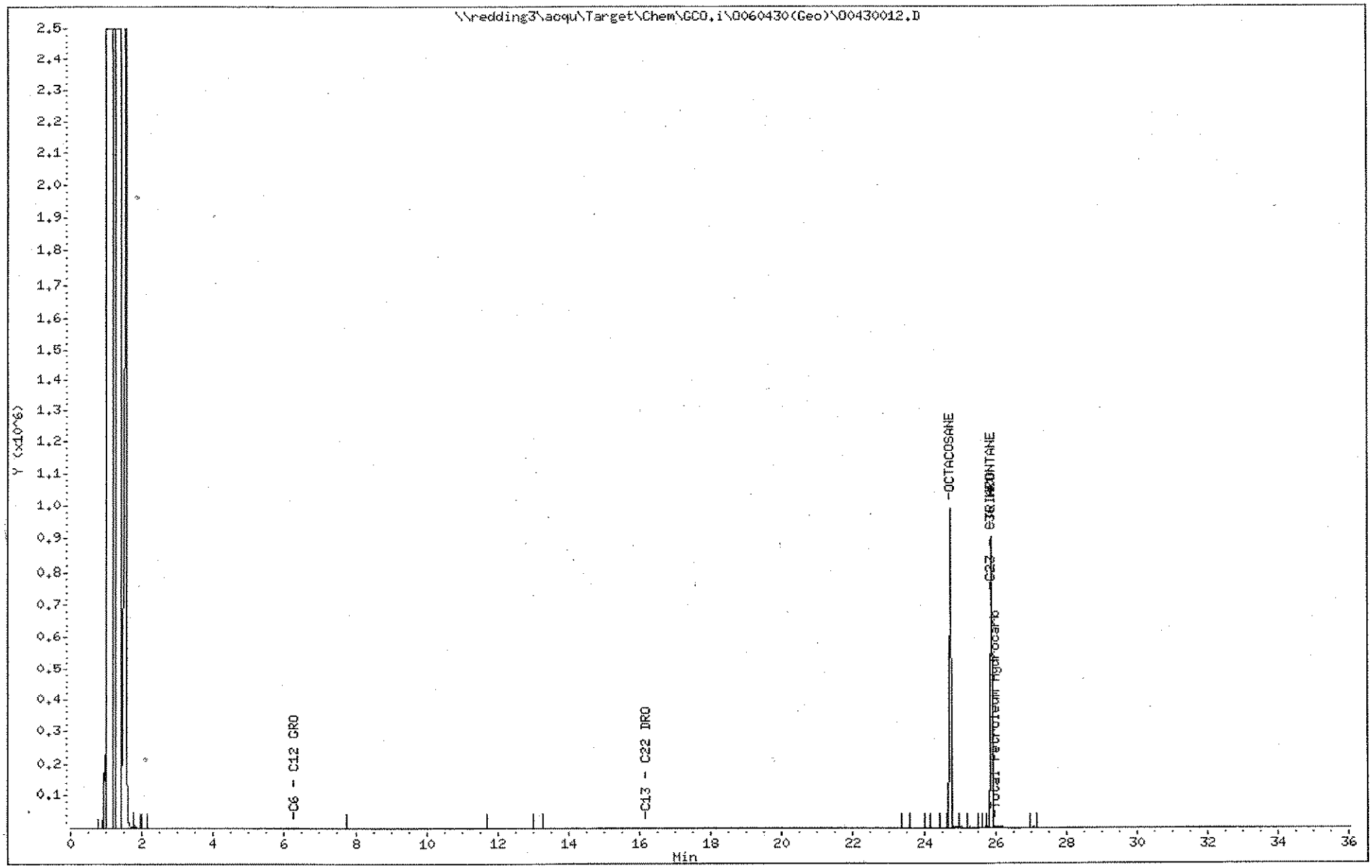
5/10/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/L)
S	1 C6 - C12 GRO	Compound Not Detected.					
S	2 C13 - C22 DRO	Compound Not Detected.					
S	3 C23 - C36 HRO	Compound Not Detected.					
$	4 OCTACOSANE	24.753	24.743	0.010	3055693	0.31686	31.792
M	6 Total Petroleum Hydrocarbons	Compound Not Detected.					

5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060430(Geo)\00430012.D
Date : 30-APR-2006 22:43
Client ID: DWB10420
Sample Info: DWB10420
Purge Volume: 0.0
Column phase: RTX-5

Instrument: GCO.i
Operator: MCM
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\O0430013.D
Lab Smp Id: DWB10420LCS Client Smp ID: DWB10420LCS
Inj Date : 30-APR-2006 23:36
Operator : MCM Inst ID: GCO.i
Smp Info : DWB10420LCS
Misc Info : DWB10420LCS;042006W;20-APR-06;;;;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060430(Geo)\FCXTPH_060427.m
Meth Date : 10-May-2006 14:11 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: fcX.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Vt	3.000	Volume of final extract (mL)
Vo	0.03010	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

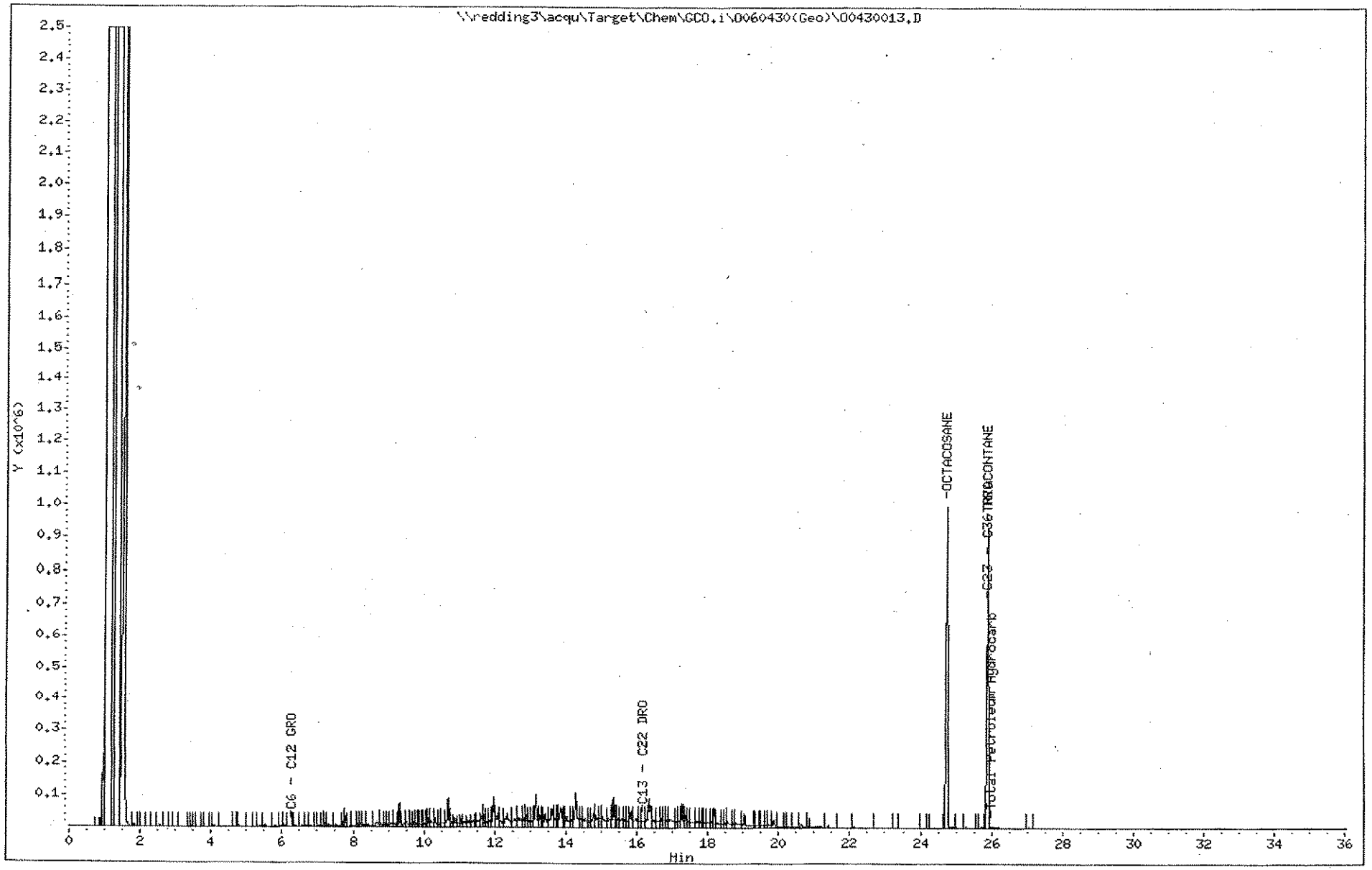
mhe 5/10/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/L)
S	1 C6 - C12 GRO	1.800-10.757			2336600	0.25600	25.515
S	2 C13 - C22 DRO	11.633-20.727			11521349	1.26230	125.81
S	3 C23 - C36 HRO	Compound Not Detected.					
S	4 OCTACOSANE	24.753	24.743	0.010	3123489	0.32390	32.282
M	6 Total Petroleum Hydrocarbons				13857949	1.51830	151.32

JDH 5/11/06

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060430(Geo)\00430013.D
Date : 30-APR-2006 23:36
Client ID: DWB10420LCS
Sample Info: DWB10420LCS
Purge Volume: 0.0
Column phase: RTX-5

Instrument: GCO.i
Operator: MCM
Column diameter: 0.53



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Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)\O0506005.D
Lab Smp Id: DSB10502 Client Smp ID: DSB10502
Inj Date : 06-MAY-2006 14:32
Operator : MCM Inst ID: GCO.i
Smp Info : DSB10502
Misc Info : ;050206S;02-MAY-06;;10.0;10;;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)_FCTPH_060427.m
Meth Date : 10-May-2006 11:56 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inhouse.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Cf*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Cf	1000.000	Conversion Factor (g to Kg)
Vt	10.000	FinalVolume (mL)
Ws	10.000	SampleWeight (g)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

MR 5/10/06

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/Kg)
S	1 C6 - C12 GRO	Compound Not Detected.					
S	2 C13 - C22 DRO	Compound Not Detected.					
S	3 C23 - C36 HRO	21.347-30.618			81370	0.00892	8.9150(a) <RL
S	4 OCTACOSANE	24.773	24.780	-0.007	2075210	0.21519	215.19
M	6 Total Petroleum Hydrocarbons	Compound Not Detected..					

DA 5/11/06

QC Flag Legend

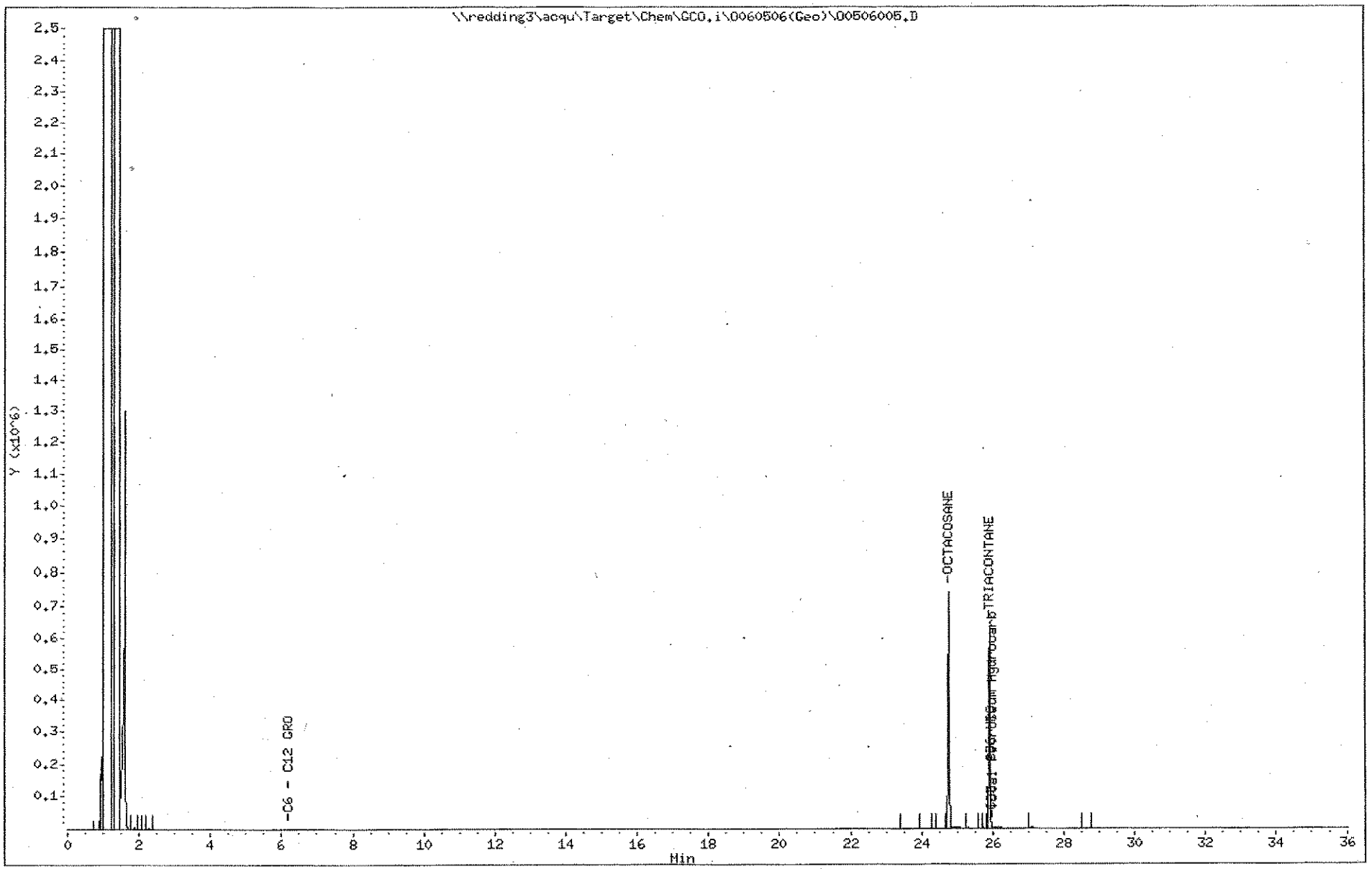
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\GCO.i\0060506(Geo)\00506005.D
Date : 06-MAY-2006 14:32
Client ID: DSB10502
Sample Info: DSB10502

Instrument: GCO.i

Operator: MCM
Column diameter: 0.53

Column phase: RTX-5



Columbia Analytical Services - Redding

Method SW846-8015

Data file : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)\O0506006.D
Lab Smp Id: DSB10502LCS Client Smp ID: DSB10502LCS
Inj Date : 06-MAY-2006 15:27
Operator : MCM Inst ID: GCO.i
Smp Info : DSB10502LCS
Misc Info : ;050206S;02-MAY-06;;10.0;10;;;
Comment :
Method : \\redding3\acqu\Target\Chem\GCO.i\O060506(Geo)_FCTPH_060427.m
Meth Date : 10-May-2006 11:56 mfesler Quant Type: ESTD
Cal Date : 27-APR-2006 14:34 Cal File: O0427005.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inhouse.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*Cf*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor (PPM to PPB)
Cf	1000.000	Conversion Factor (g to Kg)
Vt	10.000	FinalVolume (mL)
Ws	10.000	SampleWeight (g)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/mL)	CONCENTRATIONS FINAL (mg/Kg)
S	1 C6 - C12 GRO	1.800-10.658			1821637	0.19958	199.58
S	2 C13 - C22 DRO	11.925-20.619			9975790	1.09296	1093.0
S	3 C23 - C36 HRO	21.347-30.618			159712	0.01750	17.498(a)
S	4 OCTACOSANE	24.776	24.780	-0.004	2170829	0.22511	225.11
M	6 Total Petroleum Hydrocarbons				11957139	1.31005	1310.0

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

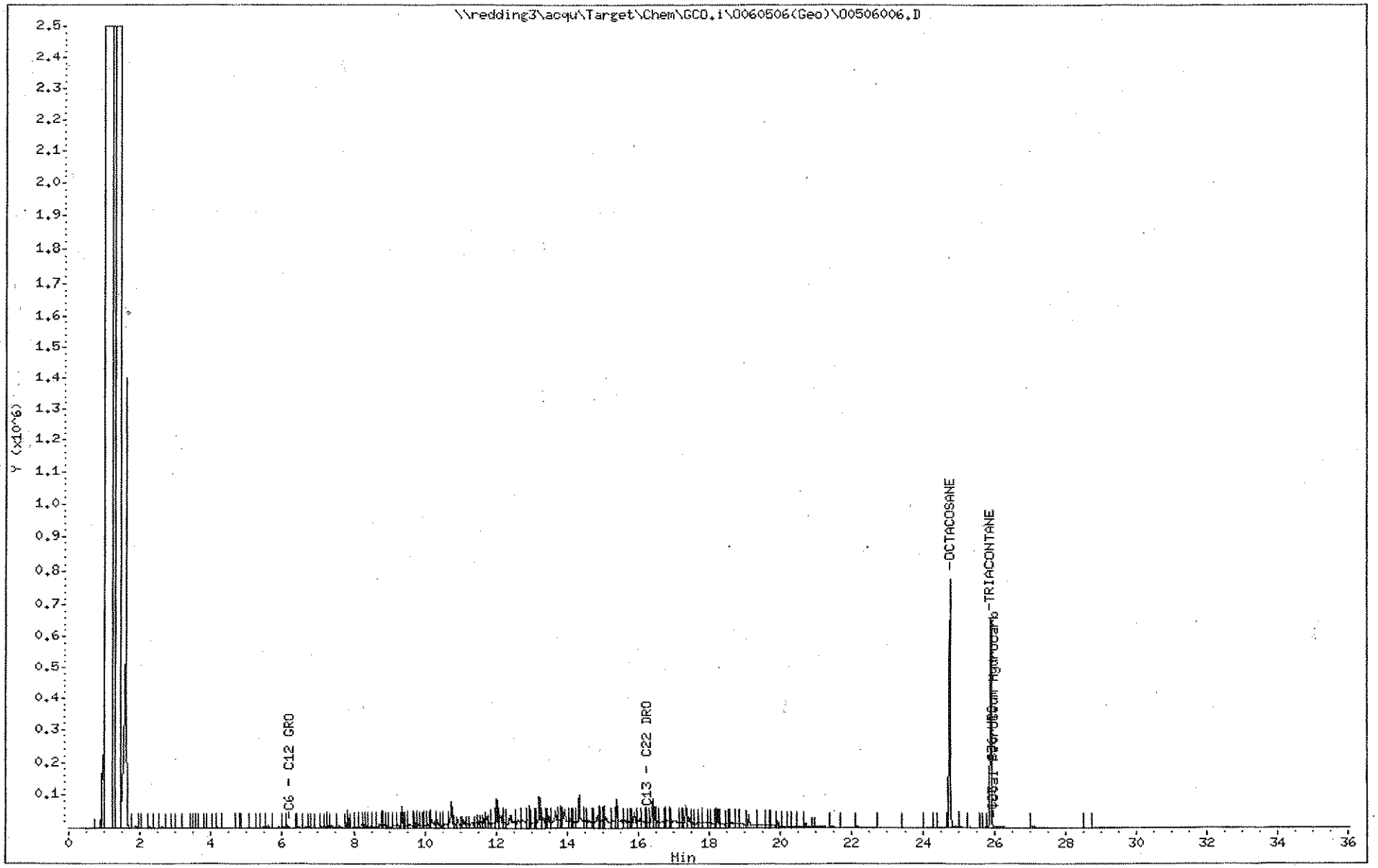
Data File: \\redding3\acqu\Target\Chem\GCO.i\0060506(Geo)\00506006.D
Date : 06-MAY-2006 15:27
Client ID: DSB10502LCS
Sample Info: DSB10502LCS

Instrument: GCO.i

Operator: MCM

Column phase: RTX-5

Column diameter: 0.53



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SUPPORT DOCUMENTATION

Sequence Table (Front Injector):

No entries - empty table!

Sequence Table (Back Injector):

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	1	Instr. Blank				
2	2	RT MARKER				
3	3	RT MARKER (CP)				
4	4	wash blk				
5	5	DSL0.005mg/ml (DSTD8)				
6	6	DSL0.010mg/ml (DSTD7)				
7	7	DSL0.050mg/ml (DSTD6)				
8	8	DSL0.100mg/ml (DSTD1)				
9	9	DSL0.500mg/ml (DSTD2)				
10	10	DSL1.000mg/ml (DSTD3)				
11	11	DSL2.500mg/ml (DSTD4)				
12	12	DSL4.000mg/ml (DSTD5)				
13	13	wash blk				
14	13	wash blk				
15	14	DSL1.0mg/ml ICV (QC ALT)				

Sequence Table (Front Injector):

No entries - empty table!

Sequence Table (Back Injector):

Method and Injection Info Part:

MCM 5/1/06

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	Instr. Blank	GC8_MF	1	Sample		
2	2	RT MARKER	GC8_MF	1	Sample		
3	3	RT MARKER (CP)	GC8_MF	1	Sample		
4	4	DSL1.0mg/ml (DSTD5)	GC8_MF	1	Sample		
5	5	WMB 4/18	GC8_MF	1	Sample		
6	6	WLCS 4/18	GC8_MF	1	Sample		
7	7	WDLCS 4/18	GC8_MF	1	Sample		
8	8	L0600624-024	GC8_MF	1	Sample		
9	9	L0600624-025	GC8_MF	1	Sample		
10	10	L0600624-026	GC8_MF	1	Sample		
11	11	DSL2.5mg/ml (DSTD4)	GC8_MF	1	Sample		
12	12	WMB 4/20	GC8_MF	1	Sample		
13	13	WLCS 4/20	GC8_MF	1	Sample		
14	14	L0600641-002	GC8_MF	1	Sample		
15	15	L0600641-004	GC8_MF	1	Sample		
16	16	L0600641-006	GC8_MF	1	Sample		
17	17	L0600641-007	GC8_MF	1	Sample		
18	18	L0600641-007MS	GC8_MF	1	Sample		
19	19	L0600641-007MSD	GC8_MF	1	Sample		
20	20	WASH BLK	GC8_MF	1	Sample		
21	4	DSL1.0mg/ml (DSTD3)	GC8_MF	1	Sample		

Sequence Table (Front Injector):

No entries - empty table!

Sequence Table (Back Injector):

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	1	Instr. Blank				
2	2	RT MARKER				
3	3	RT MARKER (CP)				
4	4	DSL1.0mg/ml (DSTD3)				
5	5	SMB 5/2				
6	6	SLCS 5/2				
7	7	L0600641-01				
8	8	L0600641-03				
9	9	L0600641-03MS				
10	10	L0600641-03MSD				
11	11	L0600641-05				
12	12	L0600671-02				
13	13	L0600671-04				
14	14	L0600671-05				
15	15	DSL2.5mg/ml (DSTD4)				
16	16	L0600671-11				
17	17	L0600671-14				
18	18	L0600671-17				
19	19	L0600671-10/10x				
20	20	L0600671-01/10x				
21	21	L0600671-03/10x				
22	22	L0600671-12/10x				
23	23	L0600671-13/10x				
24	24	L0600671-09 10x				
25	25	wash blk				
26	4	DSL1.0mg/ml (DSTD3)				
27	26	L0600671-10				
28	25	wash				
29	27	L0600671-13				
30	25	wash				
31	28	L0600671-01				
32	25	wash				
33	29	L0600671-03				
34	25	wash				
35	30	L0600671-12				
36	25	wash				
37	15	DSL2.5mg/ml (DSTD4)				

Separatory Funnel Extraction, 3510C/H

Total Fuel Hydrocarbon Water

Date	4/20/06
Time	16:00

Date sampled

Analytical Method(s)

- [ ] TFHD, 8015B
- [ ] DRO by 3520C
- [ ] DRAX, AK102.0
- [x] Other 3510 H

Solvent Lots

DCM 453483/2/06 4/20/06

Spikes

Surrogate 13-EXS-79B

Amt. 75 µl/ml *Exp:* 4/24/06

Spike 4-S ~~EXS-GC-MB-4~~

Amt. 60 µl/ml *Exp:* 4/15/07

Spiked by CMC Witness CLE

Batches L060060641 (2948)

Client(s) Geosyntec

Test Code(s)	Spikes		Amt	Final Vol.	Reling.
8015 Fuel scan	Surrogate	Spike 1	(mL)	H2O bath temp °C	
				Date & Volume	Date
Sample ID	X	X	By: CMC 4/20/06	By: CLE 4/21	By: CLE
DWB1	X		29.9	3 mls	4/21/06
~~DWB2~~					
DWL1	X	X	30.1		
~~DWL2~~					
L060060641-2.02	X		30.0		
-4	X		30.0		
-6 .02	X		30.1		
-7 .02	X		30.0		
-7ms .01	X	X	30.0		
-7msd .03	X	X	30.1		

CMC 4/20/06

CMC 4/20/06

CMC 4/20/06

Comments:

* prepped using micro-extraction
30 mls Sample +
3 mls DCM.
Shake ≈ 5 min
Transferred DCM to vials for analysis

~~An ms/msd was requested. Didn't receive enough sample.~~
~~Did an L2.~~

[X] Completed ms/msd

[ ] Sample limited, no ms/msd, duplicate LCS

088

Peer Review By:

Organic Extractions Dept.
CAS-Redding

~~Ultrasonic~~ Extraction, 3550B

Total Fuel Hydrocarbon Soil

Date	5/2/2006
Time	13:44

MCM

Analytical Method(s)

- [ ] TFHD, 8015B
- [x] Medium Level, 8015B
- [ ] DRO
- [ ] DRAX, AK102.0
- [ ] Other_____

Solvent Lots

DCM 46346

Spikes

Surrogate 13-EXS-971-05-1

Amt. 0.25 ml Exp: 7/7/06

Spike EXS-4560185

Amt. 0.200 ml Exp: 4/5/07

Spiked by MCM Witness N/A

Comments:

Batches L0600641, L0600671

Client(s) GeoSyntech, California Enviro

Test Code(s)	Spikes		Amt	Final KD	Relinq.
	Surrogate	Spike	(50g)	H2O bath temp °C Date & Volume	Date
Sample ID	X	X	By:	By: DCM vol.	By:
DSB1			10.0	10mL	
DSL1			10.0	10mL	
~~DSL2~~					
L0600641-01.01	X		10.0	10mL	
-03.01	X		10.0		
-03.01MS	X	X	10.0		
-03.01MSD	X	X	10.0		
-09.01	X		10.1		
L0600671-01.04	X		10.3		
-02.01	X		10.3		
-03.01	X		10.3		
-04.01	X		10.0		
-05.01	X		10.3		
-09.04	X		10.1		
-10.04	X		10.1		
-11.04	X		10.2		
-12.01	X		10.3		
-13.04	X		10.1		
-14.01	X		10.4		
-17.04	X		10.2		

- [x] Completed ms/msd
- [ ] Sample limited, no ms/msd, duplicate LCS

028

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Calscience
Environmental
Laboratories, Inc.

April 21, 2006

Ed Wilson
Columbia Analytical Services, Inc.
6925 Canoga Avenue
Canoga Park, CA 91303

Subject: **Calscience Work Order No.: 06-04-0831**
Client Reference: TDY / SC0307

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/14/2006 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Amanda Porter

Calscience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager

Calscience Environmental Laboratories, Inc.

Work Order Case Narrative

Project Name: TDY / SC0307
Calscience Work Order Number: 06-04-0831

1. Hexavalent Chromium:

The chain of custody requested that Hexavalent Chromium be analyzed by method EPA 7199. However, due to the samples having a high conductivity, method EPA 7196A was used to achieve the lowest reporting limit and to complete the analysis within the recommended holding time.

Calscience Environmental Laboratories, Inc.

Analytical Report

Columbia Analytical Services, Inc.
6925 Canoga Avenue
Canoga Park, CA 91303

Date Received: 04/14/06
Work Order No: 06-04-0831

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix
T-49 GW-11	**06-04-0831-1**	**04/13/06**	**Aqueous**

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	280	10	2.0	500		mg/L	N/A	04/14/06	EPA 7196A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
T-47 GW-11	**06-04-0831-2**	**04/13/06**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent (1)	ND	0.020	0.0040	1		mg/L	N/A	04/14/06	EPA 7196A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
T-48 GW-11	**06-04-0831-3**	**04/13/06**	**Aqueous**

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	580	20	4.0	1000		mg/L	N/A	04/14/06	EPA 7196A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
T-48 GW-35	**06-04-0831-4**	**04/13/06**	**Aqueous**

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	0.16	0.02	0.0040	1		mg/L	N/A	04/14/06	EPA 7196A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent (1)	ND	0.020	0.0040	1		mg/L	N/A	04/14/06	EPA 7196A

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Columbia Analytical Services, Inc.
6925 Canoga Avenue
Canoga Park, CA 91303

Date Received: N/A
Work Order No: 06-04-0831

Project: TDY / SC0307

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	EPA 7196A	T-47 GW-11	04/14/06	N/A	99	99	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Columbia Analytical Services, Inc.
6925 Canoga Avenue
Canoga Park, CA 91303

Date Received: N/A
Work Order No: 06-04-0831

Project: TDY / SC0307

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Chromium, Hexavalent	EPA 7196A	099-05-064-1,435	04/14/06	N/A	0.50	0.51	103	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 06-04-0831

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

6925 Canoga Ave. • Canoga Park, CA 91303 • (818) 587-5550 • 800-695-7222 x02 • FAX (818) 587-5555

PAGE 1 OF 1

CAS Contact 0831

Project Name: TDY	Project Number: SC0307
Project Manager: ED WILSON	Report CC:
Company/Address: CAS	
Phone #	FAX#
Sampler's Signature	Sampler's Printed Name

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

TPH Gas 8015m (purgeable) | TPH Diesel ☐ Fuel Char. ☐ 8015m (extractable) | BTEX ☐ MTBE ☐ 8021 / 602 | Halogenated Volatiles 8260 | VOA by GCMS ☐ Oxygenates ☐ 8260 / 624 | SemiVOA by GCMS 8270 / 625 | Pesticides ☐ PCBs ☐ 8081 / 8082 / 608 | CCR Metals (17) 6010 / 6020 / 7000 / 200.7 / 200.8 | Cr6+ 7199

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Acetate
6. MeOH
7. $NaHSO_4$
8. Other

REMARKS/ ALTERNATE DESCRIPTION

ORIGINAL

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	# CONTAINERS	TPH Gas	TPH Diesel	BTEX	Halogenated Volatiles	VOA by GCMS	SemiVOA by GCMS	Pesticides	CCR Metals (17)	Cr6+	REMARKS
T-49 GW-11		4/13/06	1000	WATER	1									X	
T-47 GW-11		↓	1150	↓	1									X	
T-48 GW-11			1435		1									X	
T-48 GW-35		↓	1525	↓	1									X	

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

PLEASE CIRCLE WORK DAYS

1 2 3 4

✓ STANDARD

REQUESTED FAX DATE:

REQUESTED REPORT DATE:

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

✓ IV. Data Validation Report with Raw Data

MP2: ____ Yes ✓ No

PQL/MCL/J: ✓ Yes ____ No

Scans: ✓ Yes ____ No

INVOICE INFORMATION

PO# 1060D641

BILL TO:

Lab No: 10600641

SAMPLE RECEIPT: CONDITION/COOLER TEMP: ____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: NILKO RIVENBURG	Printed Name: N. CRUISE	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: CAS	Firm: CALSCIENCE	Firm:	Firm:	Firm:	Firm:
Date/Time: 4/14/06 0844	Date/Time: 4/14/06 0844	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCGC-0600-15

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04/14/2006 08:41 8185875555 CAS CANOGA PARK PAGE 04

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 04 - 0831

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: CAS DATE: 04/14/2006

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
4.3 °C IR thermometer.
_____ Ambient temperature.

Initial: NC

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

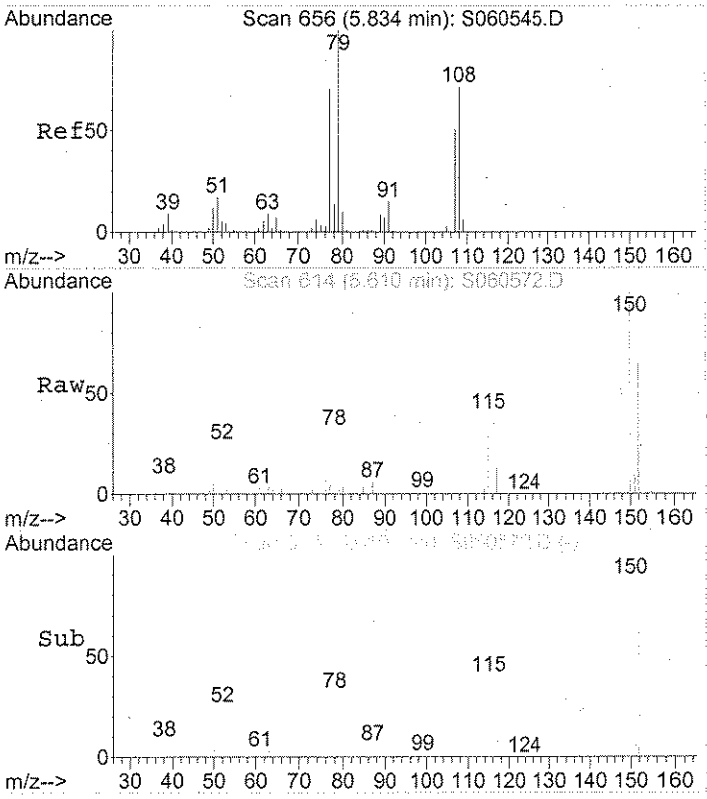
Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: NC

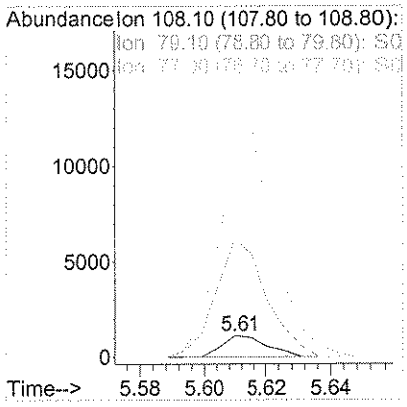
COMMENTS:

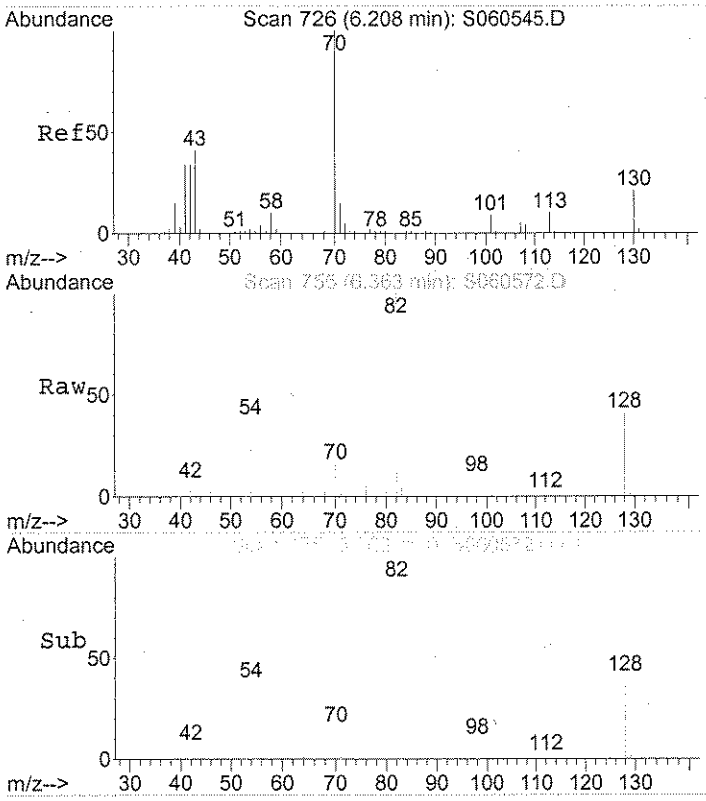


#14
Benzyl alcohol
Concen: 0.26 mg/L
RT: 5.61 min Scan# 614
Delta R.T. -0.22 min
Lab File: S060572.D
Acq: 24 Apr 2006 7:42 pm

Tgt Ion:108 Resp: 1130

Ion	Ratio	Lower	Upper
108	100		
79	623.7	93.8	140.8#
77	1280.6	61.0	91.4#

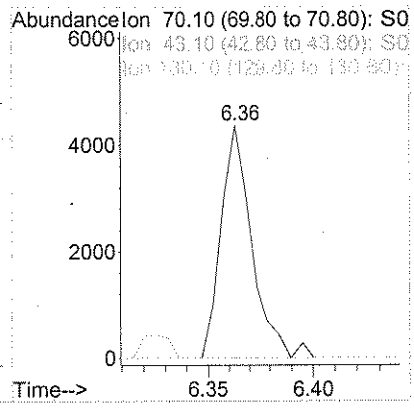


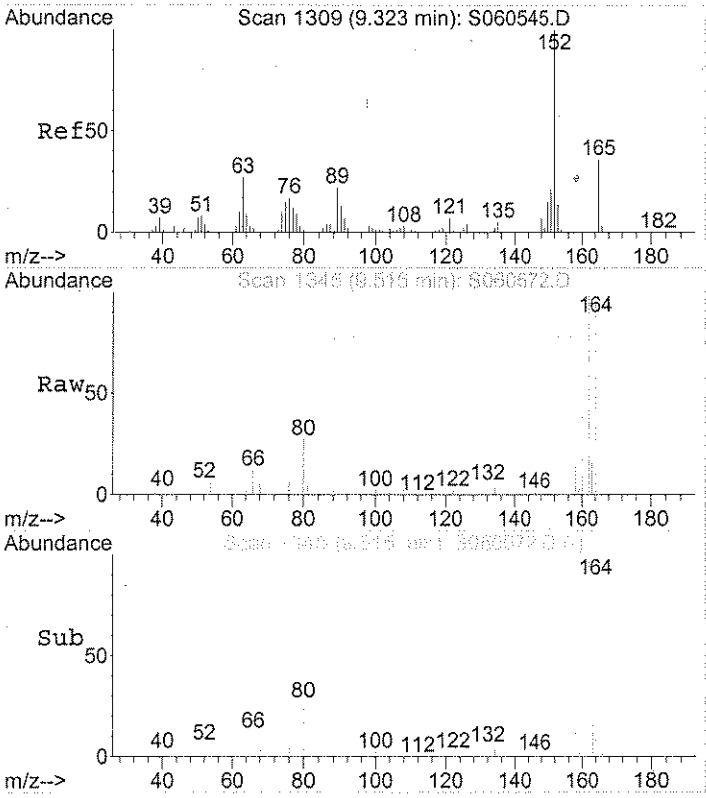


#19
N-Nitrosodi-n-propylamine
Concen: 0.75 mg/L
RT: 6.36 min Scan# 755
Delta R.T. 0.16 min
Lab File: S060572.D
Acq: 24 Apr 2006 7:42 pm

Tgt Ion: 70 Resp: 4557

Ion	Ratio	Lower	Upper
70	100		
43	8.6	80.8	121.2#
130	0.0	19.1	28.7#

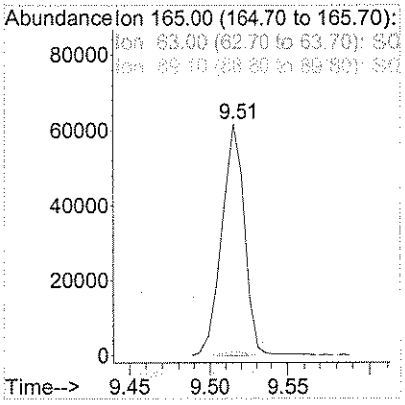


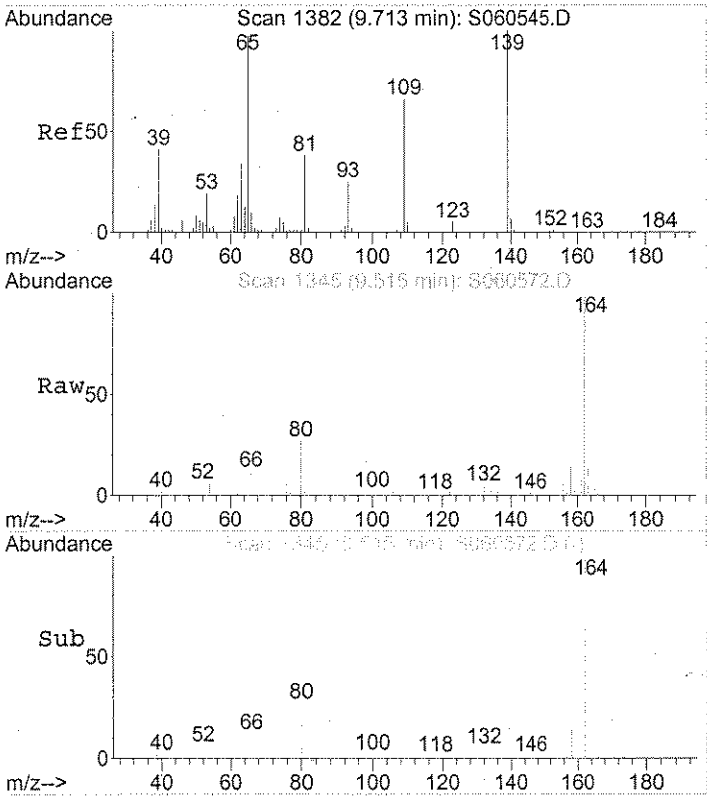


#46
2,6-Dinitrotoluene
Concen: 18.14 mg/L
RT: 9.51 min Scan# 1345
Delta R.T. 0.19 min
Lab File: S060572.D
Acq: 24 Apr 2006 7:42 pm

Tgt Ion:165 Resp: 62979

Ion	Ratio	Lower	Upper
165	100		
63	1.4	54.4	81.6#
89	1.3	36.9	55.3#

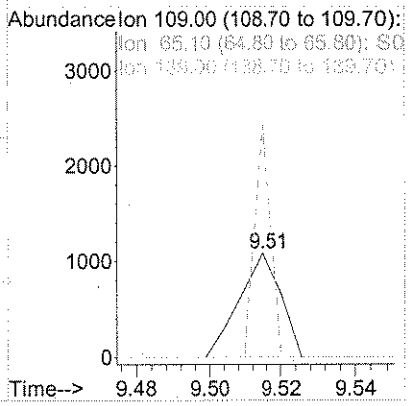


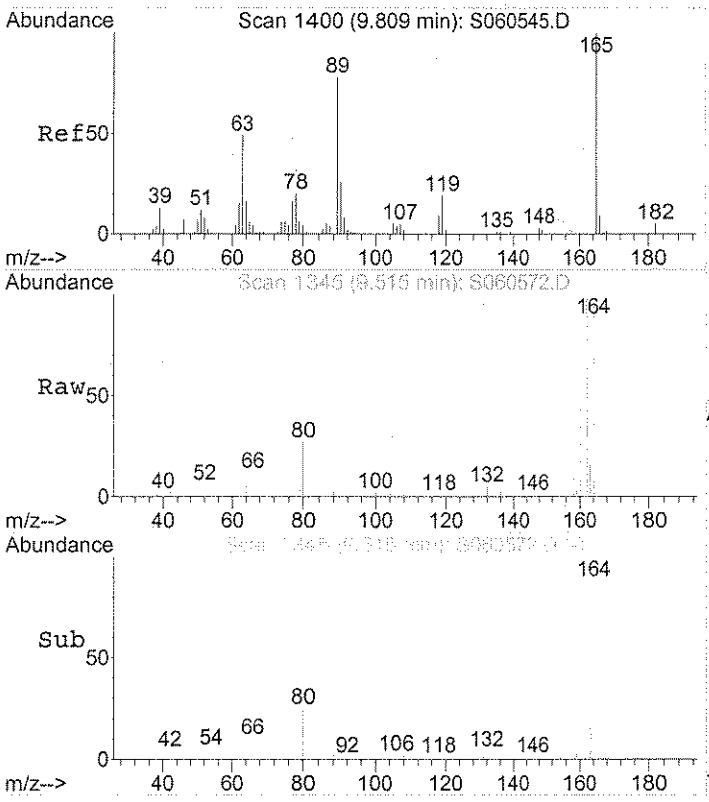


#51
4-Nitrophenol
Concen: 0.48 mg/L
RT: 9.51 min Scan# 1345
Delta R.T. -0.20 min
Lab File: S060572.D
Acq: 24 Apr 2006 7:42 pm

Tgt Ion:109 Resp: 886

Ion	Ratio	Lower	Upper
109	100		
65	88.4	158.2	237.4#
139	0.0	178.5	267.7#

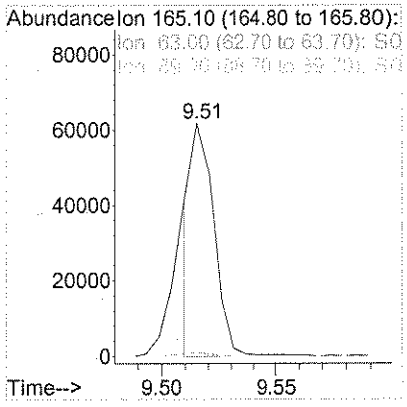


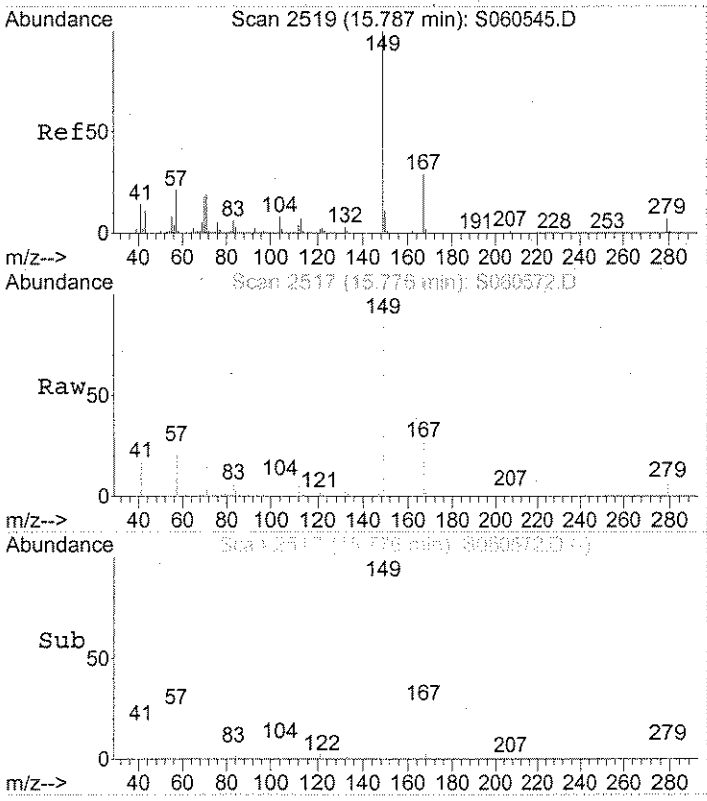


#52
2,4-Dinitrotoluene
Concen: 10.02 mg/L
RT: 9.51 min Scan# 1345
Delta R.T. -0.29 min
Lab File: S060572.D
Acq: 24 Apr 2006 7:42 pm

Tgt Ion:165 Resp: 41745

Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.7	52.1#
89	1.5	53.1	79.7#

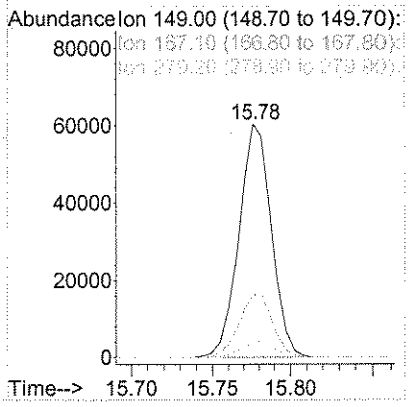




#78
Bis(2-ethylhexyl)phthalate
Concen: 8.92 mg/L
RT: 15.78 min Scan# 2517
Delta R.T. -0.01 min
Lab File: S060572.D
Acq: 24 Apr 2006 7:42 pm

Tgt Ion:149 Resp: 88841

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.6	33.8
279	6.7	4.9	7.3



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	03/30/2006	**Receive Date:**	04/03/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	L0600578
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	73377	**Prep Date:**	04/06/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:	Base Neutral / Acid Semivolatile Organic Compounds	**Report List ID:**	LJ1260
Tune Ref:		**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060568.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 17:28	**Quant Date:**	04/24/2006 18:00	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-003			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.60	0.00?	152	220537	40.00	OK
2	Naphthalene-d8	7.26	0.02?	136	869774	40.00	OK
3	Acenaphthene-d10	9.51	0.02?	164	468915	40.00	OK
4	Phenanthrene-d10	11.36	0.02?	188	785089	40.00	OK
5	Chrysene-d12	15.62	0.03?	240	546034	40.00	OK
6	Perylene-d12	18.43	0.04?	264	252919	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.06	0.00	0.00	112	281681	42.61	85	45-101	OK	
1	Phenol-d5	5.19	0.00	0.00	99	372883	44.01	88	49-107	OK	
2	Nitrobenzene-d5	6.36	0.01	0.00	82	375083	48.17	96	58-105	OK	
3	2-Fluorobiphenyl	8.65	0.01	0.00	172	645814	45.44	91	50-101	OK	
4	2,4,6-Tribromophenol	10.51	0.02	0.00	330	127204	52.83	106	43-104	*	
5	Terphenyl-d14	13.68	0.03	0.00	244	500862	40.16	80	34-120	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.44	0.01	0.00	88	1971	0.6600	0.63	J	
1	N-Nitrosodimethylamine				42	0		2.8	U	
1	Pyridine				79	0		2.9	U	
1	Aniline				93	0		3.0	U	
1	Phenol				94	0		1.0	U	
1	Bis(2-chloroethyl) Ether				93	0		1.0	U	
1	2-Chlorophenol				128	0		1.0	U	
1	1,3-Dichlorobenzene				146	0		1.0	U	
1	1,4-Dichlorobenzene				146	0		1.0	U	
1	Benzyl alcohol				108	0d		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060568.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 17:28	**Quant Date:**	04/24/2006 18:00	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-003			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		1.0	U	
1	2-Methylphenol				108	0		1.0	U	
1	Bis(2-chloroisopropyl) Ether				45	0		1.0	U	
1	N-Nitrosodi-n-propylamine				70	0d		1.0	U	
1	Hexachloroethane				117	0		4.0	U	
1	3- and 4-Methylphenol Coelutio				107	0		1.0	U	
2	Nitrobenzene				77	0		1.0	U	
2	Isophorone				82	0		1.0	U	
2	2-Nitrophenol				139	0		1.0	U	
2	2,4-Dimethylphenol				122	0d		2.0	U	
2	bis(2-Chloroethoxy)methane				93	0		1.0	U	
2	2,4-Dichlorophenol				162	0		1.0	U	
2	1,2,4-Trichlorobenzene				180	0		1.5	U	
2	Benzoic acid	6.93	-0.08	-0.01	122	4483	3.76	3.6	J	
2	Naphthalene				128	0		1.0	U	
2	4-Chloroaniline				127	0		1.7	U	
2	Hexachlorobutadiene				225	0		1.6	U	
2	4-Chloro-3-methylphenol				107	0		1.0	U	
2	2-Methylnaphthalene				142	0		1.0	U	
3	Hexachlorocyclopentadiene				237	0		1.0	U	
3	2,4,6-Trichlorophenol				196	0		2.2	U	
3	2,4,5-Trichlorophenol				196	0		2.2	U	
3	2-Chloronaphthalene				162	0		1.0	U	
3	2-Nitroaniline				65	0		1.0	U	
3	Dimethyl Phthalate				163	0		1.0	U	
3	Acenaphthylene				152	0		1.0	U	
3	2,6-Dinitrotoluene				165	0d		1.8	U	
3	3-Nitroaniline				138	0		1.5	U	
3	Acenaphthene				154	0d		1.0	U	
3	2,4-Dinitrophenol				184	0		1.5	U	
3	Dibenzofuran				168	0		1.0	U	
3	4-Nitrophenol				109	0		1.7	U	
3	2,4-Dinitrotoluene				165	0		1.0	U	
3	Fluorene				166	0		1.0	U	
3	Diethyl Phthalate	10.07	-0.01	0.00	149	4786	0.3500	6.6	U	
3	4-Chlorophenyl Phenyl Ether				204	0		1.0	U	
3	4-Nitroaniline				138	0		1.9	U	
4	2-Methyl-4,6-dinitrophenol				198	0		1.5	U	
4	N-Nitrosodiphenylamine				169	0		1.0	U	
4	4-Bromophenyl Phenyl Ether				248	0		2.0	U	
4	Hexachlorobenzene				284	0		1.0	U	
4	Pentachlorophenol				266	0		1.4	U	
4	Phenanthrene				178	0		1.0	U	

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D: Result from dilution
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d: Compound manually deleted
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?: Insufficient information to determine acceptance
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c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060568.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 17:28	**Quant Date:**	04/24/2006 18:00	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-003			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		1.0	U	
4	Di-n-butyl Phthalate				149	0		2.0	U	
4	Fluoranthene				202	0		1.0	U	
5	Pyrene				202	0		1.0	U	
5	Butyl Benzyl Phthalate				149	0d		1.6	U	
5	Benz(a)anthracene				228	0		1.5	U	
5	3,3'-Dichlorobenzidine				252	0		3.5	U	
5	Chrysene				228	0		1.5	U	
5	Bis(2-ethylhexyl) Phthalate	15.77	0.03	0.00	149	16201	1.54	1.5	J	
6	Di-n-octyl Phthalate				149	0		1.3	U	
6	Benzo(b)fluoranthene				252	0		1.7	U	
6	Benzo(k)fluoranthene				252	0		1.9	U	
6	Benzo(a)pyrene				252	0		1.8	U	
6	Indeno(1,2,3-cd)pyrene				276	0d		3.8	U	
6	Dibenz(a,h)anthracene				278	0d		3.4	U	
6	Benzo(g,h,i)perylene				276	0d		4.1	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060568.D Vial: 10
Acq On : 24 Apr 2006 5:28 pm Operator: SC
Sample : L0600578-003 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 17:54:10 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E 4/24/06

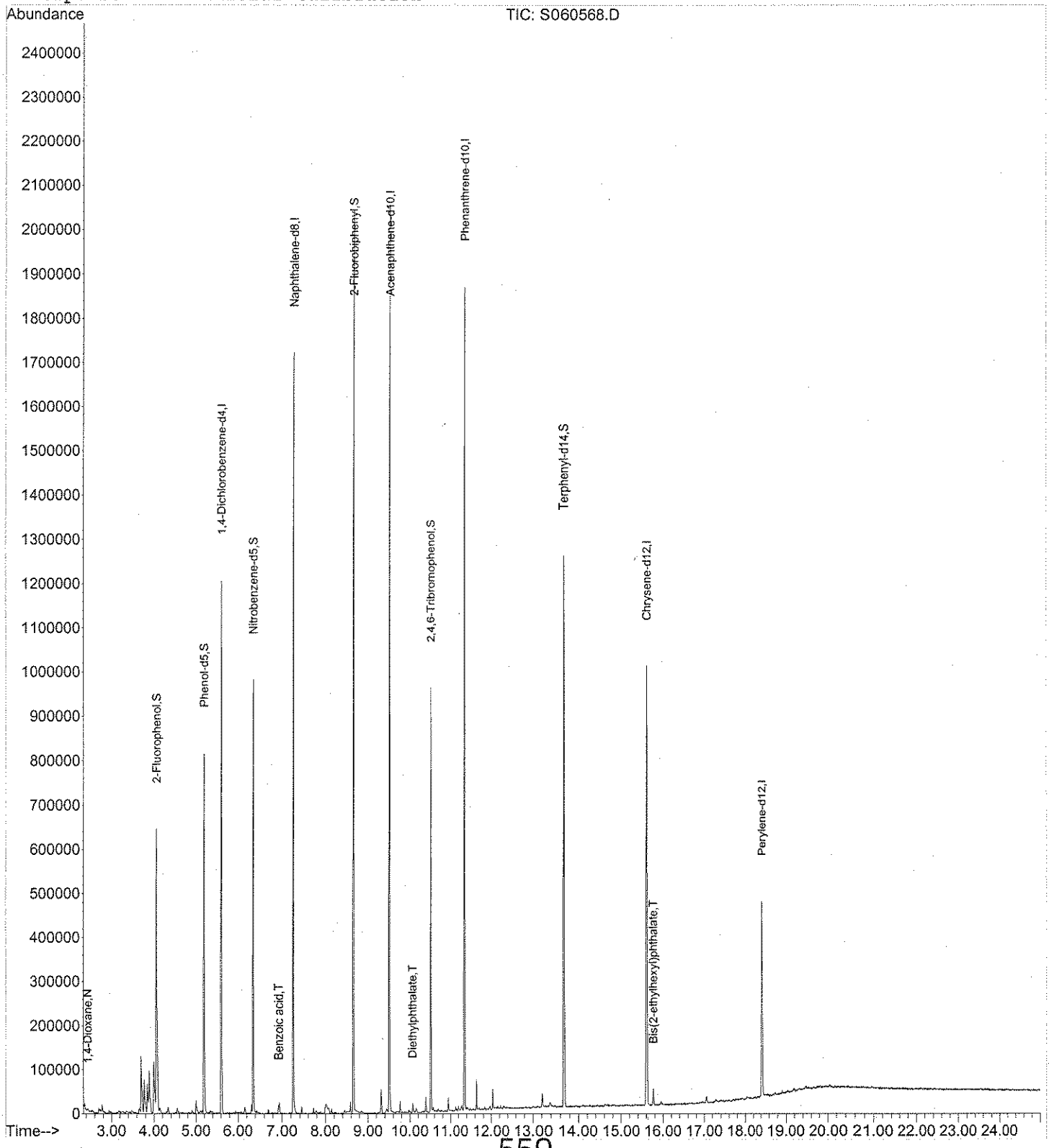
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	220537	40.00	mg/L	-0.02
22) Naphthalene-d8	7.26	136	869774	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.51	164	468915	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.36	188	785089	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	546034	40.00	mg/L	-0.01
80) Perylene-d12	18.43	264	252919	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.06	112	281681	42.61	mg/L	-0.03
Spiked Amount 50.000			Recovery = 85.22%			
7) Phenol-d5	5.19	99	372883	44.01	mg/L	-0.03
Spiked Amount 50.000			Recovery = 88.02%			
23) Nitrobenzene-d5	6.36	82	375083	48.17	mg/L	-0.02
Spiked Amount 50.000			Recovery = 96.34%			
41) 2-Fluorobiphenyl	8.65	172	645814	45.44	mg/L	-0.01
Spiked Amount 50.000			Recovery = 90.88%			
61) 2,4,6-Tribromophenol	10.51	330	127204	52.83	mg/L	-0.01
Spiked Amount 50.000			Recovery = 105.66%			
73) Terphenyl-d14	13.68	244	500862	40.16	mg/L	0.00
Spiked Amount 50.000			Recovery = 80.32%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	1971	0.66	mg/L #	75
31) Benzoic acid	6.93	122	4483	3.76	mg/L #	76
54) Diethylphthalate	10.07	149	4786	0.35	mg/L #	85
78) Bis(2-ethylhexyl)phthalate	15.77	149	16201	1.54	mg/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060568.D Vial: 10
Acq On : 24 Apr 2006 5:28 pm Operator: SC
Sample : L0600578-003 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 18:00 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060568.D Vial: 10
Acq On : 24 Apr 2006 5:28 pm. Operator: SC
Sample : L0600578-003 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 17:54:10 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

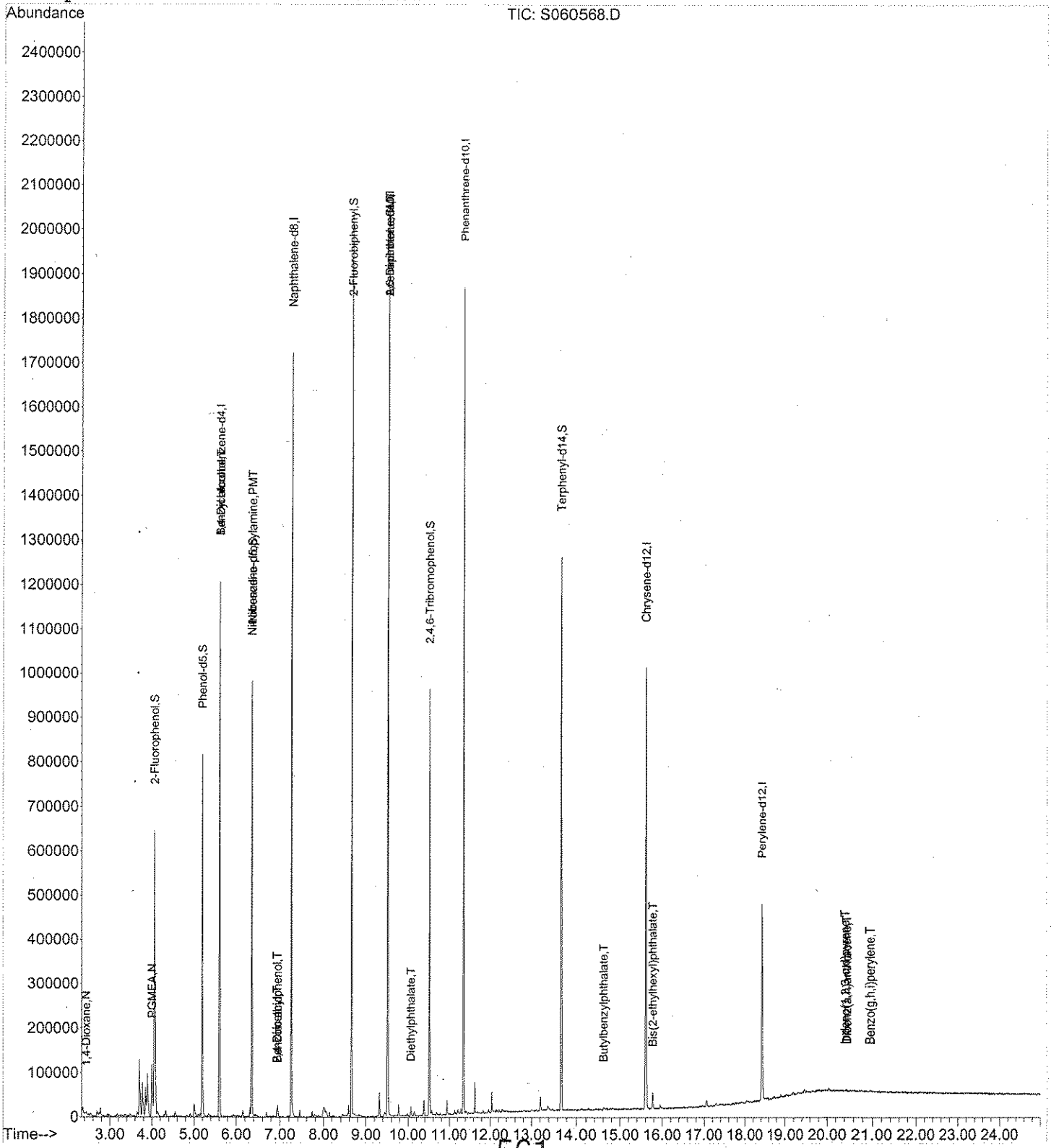
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	220537	40.00	mg/L	-0.02
22) Naphthalene-d8	7.26	136	869774	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.51	164	468915	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.36	188	785089	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	546034	40.00	mg/L	-0.01
80) Perylene-d12	18.43	264	252919	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.06	112	281681	42.61	mg/L	-0.03
Spiked Amount 50.000			Recovery = 85.22%			
7) Phenol-d5	5.19	99	372883	44.01	mg/L	-0.03
Spiked Amount 50.000			Recovery = 88.02%			
23) Nitrobenzene-d5	6.36	82	375083	48.17	mg/L	-0.02
Spiked Amount 50.000			Recovery = 96.34%			
41) 2-Fluorobiphenyl	8.65	172	645814	45.44	mg/L	-0.01
Spiked Amount 50.000			Recovery = 90.88%			
61) 2,4,6-Tribromophenol	10.51	330	127204	52.83	mg/L	-0.01
Spiked Amount 50.000			Recovery = 105.66%			
73) Terphenyl-d14	13.68	244	500862	40.16	mg/L	0.00
Spiked Amount 50.000			Recovery = 80.32%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	1971	0.66	mg/L #	75
5) PGMEA	4.00	43	22224	5.16	mg/L #	70
14) Benzyl alcohol	5.60	108	1135	0.27	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.36	70	54838	9.27	mg/L #	12
27) 2,4-Dimethylphenol	6.93	122	4483	0.72	mg/L #	6
31) Benzoic acid	6.93	122	4483	3.76	mg/L #	76
46) 2,6-Dinitrotoluene	9.51	165	61799	18.34	mg/L #	24
48) Acenaphthene	9.51	154	3467	0.30	mg/L #	47
54) Diethylphthalate	10.07	149	4786	0.35	mg/L #	85
74) Butylbenzylphthalate	14.61	149	1996	2.13	mg/L #	70
78) Bis(2-ethylhexyl)phthalate	15.77	149	16201	1.54	mg/L	97
85) Indeno(1,2,3-c,d)pyrene	20.42	276	1695	0.24	mg/L #	45
86) Dibenz(a,h)anthracene	20.46	278	1286	0.24	mg/L #	47
87) Benzo(g,h,i)perylene	20.96	276	1785	0.31	mg/L #	46

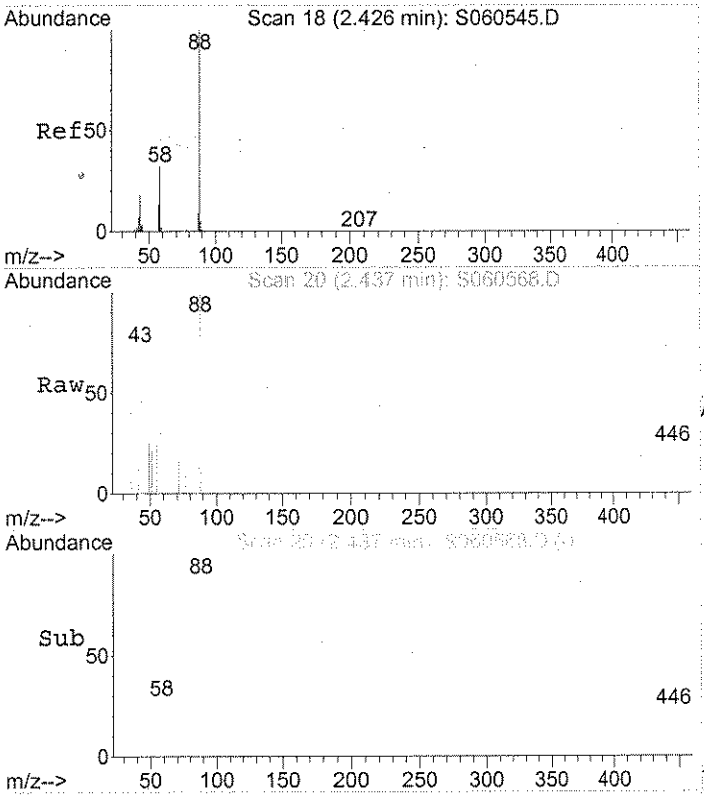
(#) = qualifier out of range (m) = manual integration
S060568.D BA060422.M Mon Apr 24 17:54:13 2006 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060568.D Vial: 10
Acq On : 24 Apr 2006 5:28 pm Operator: SC
Sample : L0600578-003 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 17:54 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

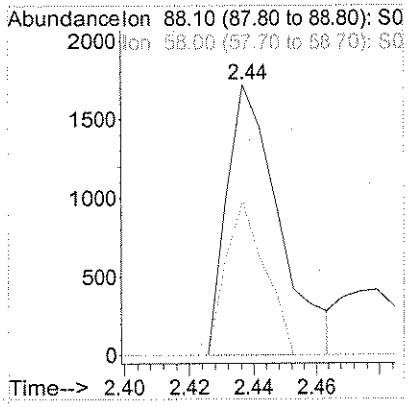


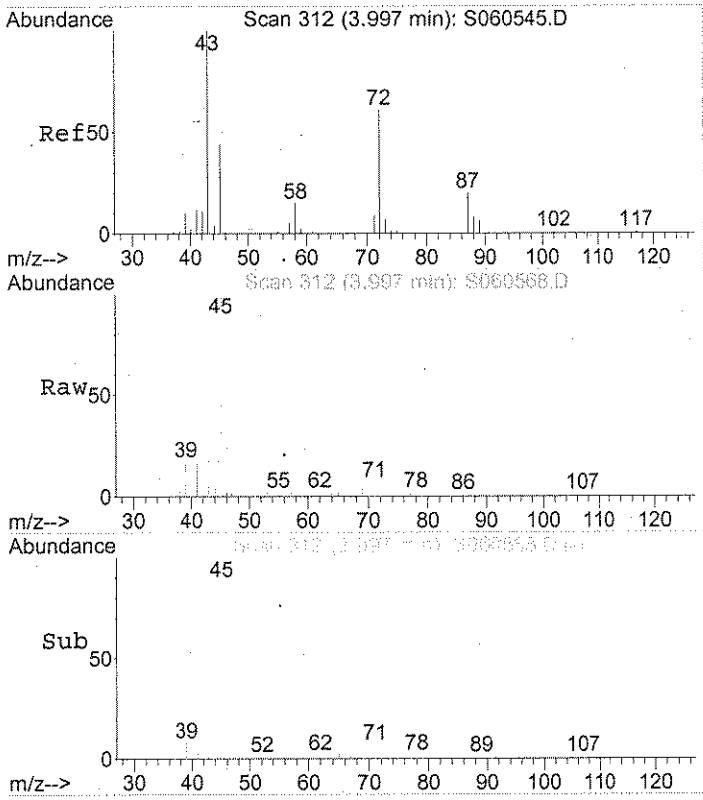


#2
1,4-Dioxane
Concen: 0.66 mg/L
RT: 2.44 min Scan# 20
Delta R.T. 0.01 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion: 88 Resp: 1971

Ion	Ratio	Lower	Upper
88	100		
58	42.5	49.0	73.6#

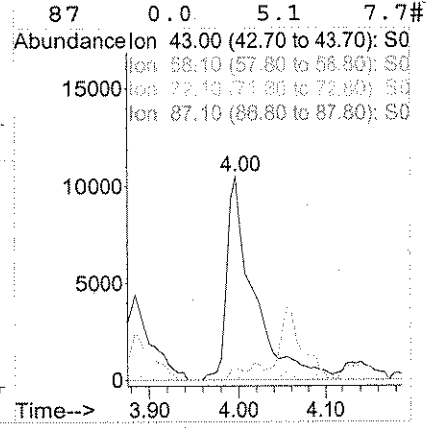


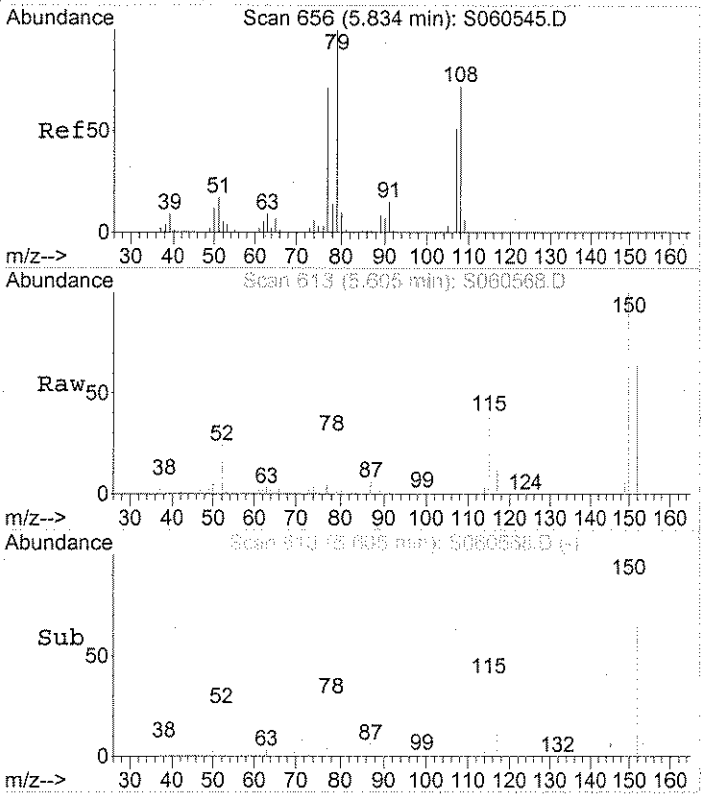


#5
PGMEA
Concen: 5.16 mg/L
RT: 4.00 min Scan# 312
Delta R.T. 0.00 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion: 43 Resp: 22224

Ion	Ratio	Lower	Upper
43	100		
58	2.8	8.0	12.0#
72	0.4	14.6	21.8#
87	0.0	5.1	7.7#

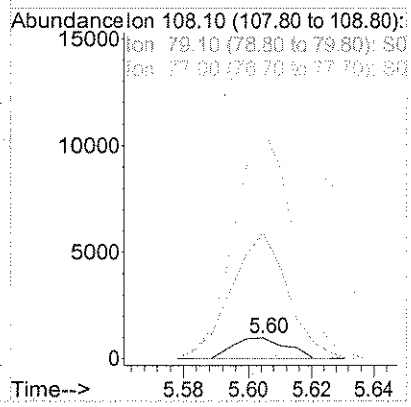


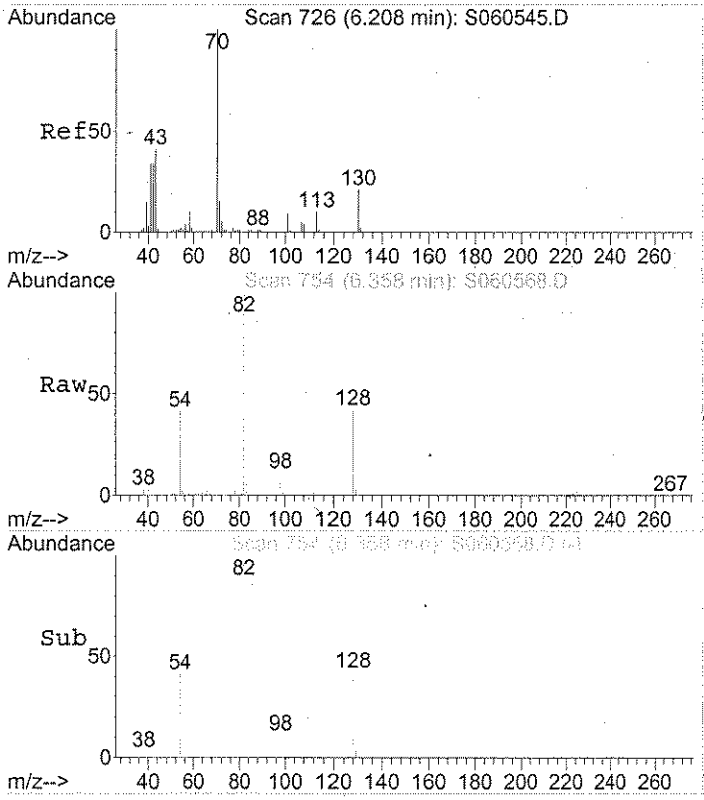


#14
Benzyl alcohol
Concen: 0.27 mg/L
RT: 5.60 min Scan# 613
Delta R.T. -0.23 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:108 Resp: 1135

Ion	Ratio	Lower	Upper
108	100		
79	640.6	93.8	140.8#
77	1228.3	61.0	91.4#

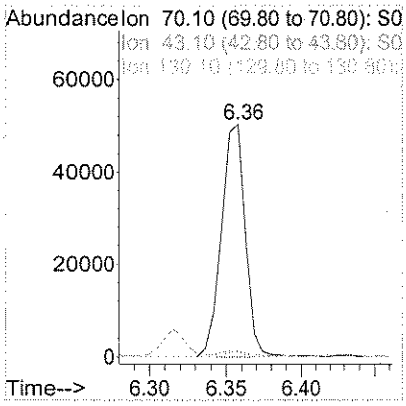


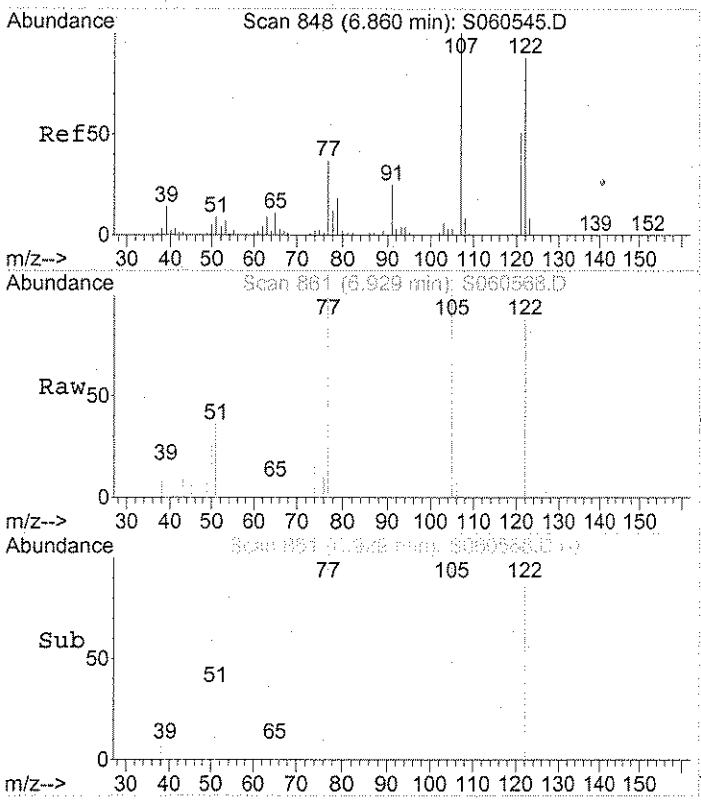


#19
N-Nitrosodi-n-propylamine
Concen: 9.27 mg/L
RT: 6.36 min Scan# 754
Delta R.T. 0.15 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion: 70 Resp: 54838

Ion	Ratio	Lower	Upper
70	100		
43	2.6	80.8	121.2#
130	1.6	19.1	28.7#

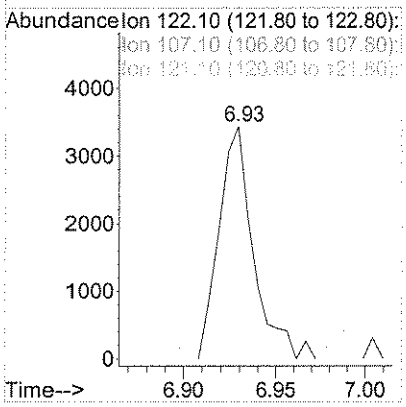


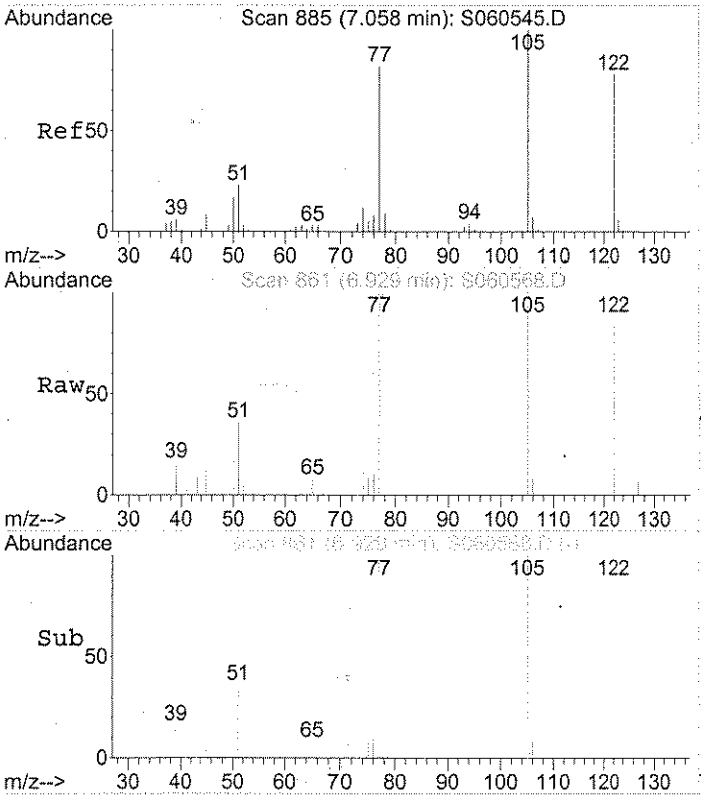


#27
2,4-Dimethylphenol
Concen: 0.72 mg/L
RT: 6.93 min Scan# 861
Delta R.T. 0.07 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:122 Resp: 4483

Ion	Ratio	Lower	Upper
122	100		
107	0.0	84.8	127.2#
121	0.0	46.1	69.1#

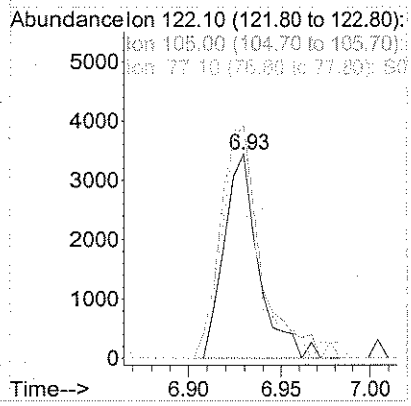


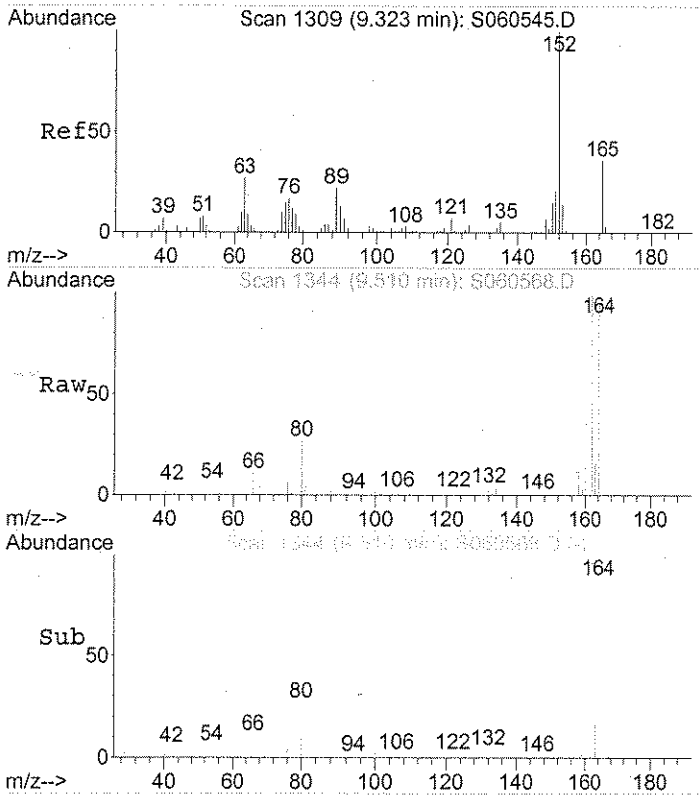


#31
Benzoic acid
Concen: 3.76 mg/L
RT: 6.93 min Scan# 861
Delta R.T. -0.13 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:122 Resp: 4483

Ion	Ratio	Lower	Upper
122	100		
105	133.3	93.8	140.6
77	118.3	67.5	101.3#

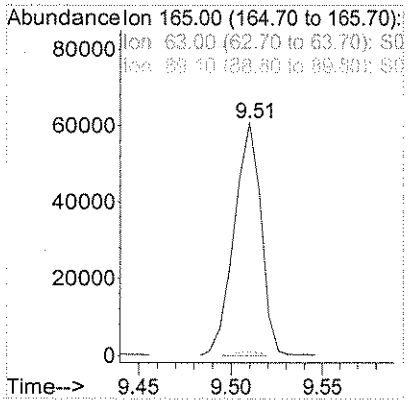


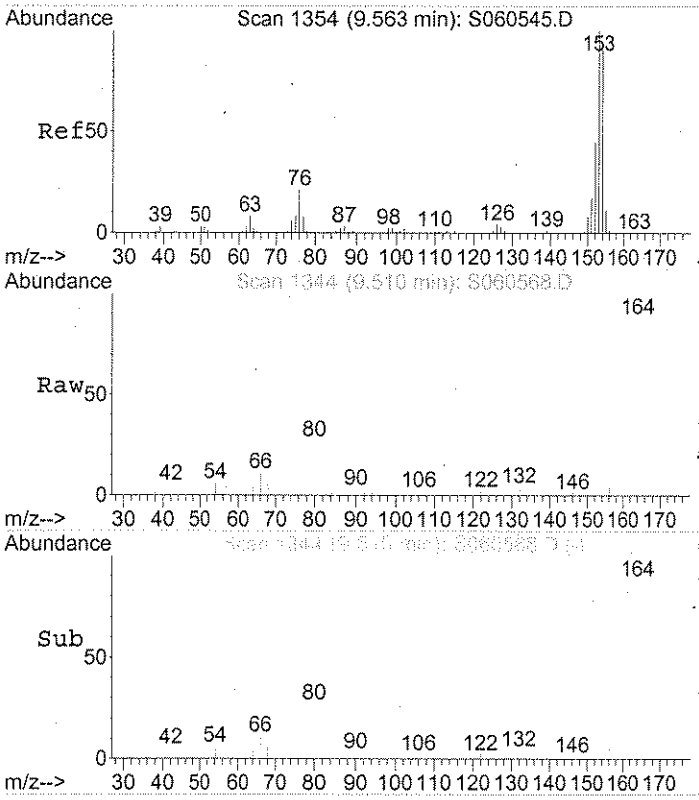


#46
2,6-Dinitrotoluene
Concen: 18.34 mg/L
RT: 9.51 min Scan# 1344
Delta R.T. 0.19 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:165 Resp: 61799

Ion	Ratio	Lower	Upper
165	100		
63	1.4	54.4	81.6#
89	1.4	36.9	55.3#

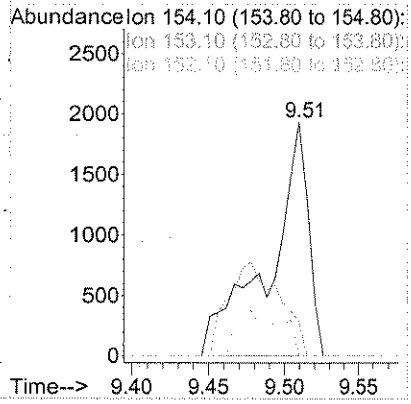


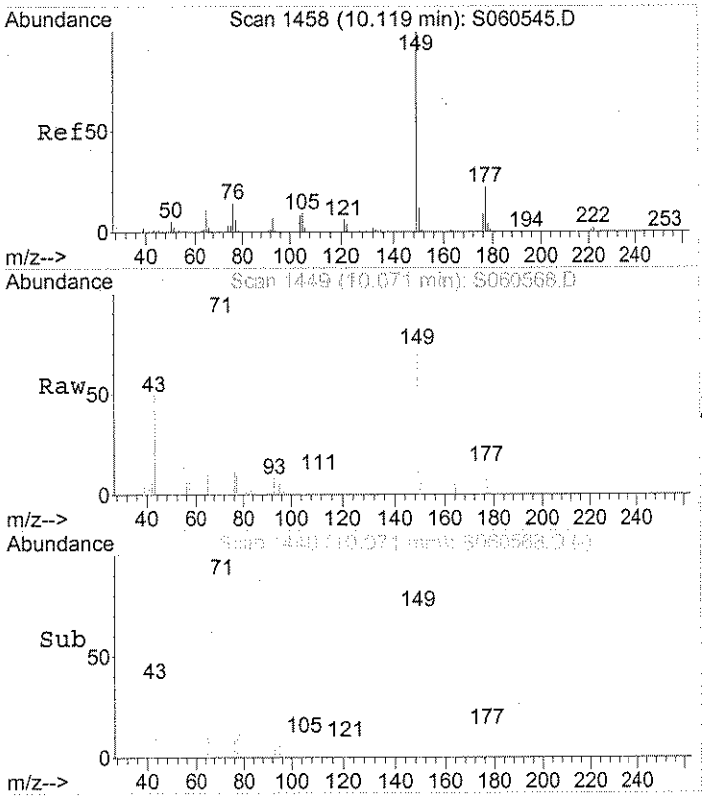


#48
Acenaphthene
Concen: 0.30 mg/L
RT: 9.51 min Scan# 1344
Delta R.T. -0.05 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:154 Resp: 3467

Ion	Ratio	Lower	Upper
154	100		
153	53.1	88.3	132.5#
152	16.7	41.0	61.4#

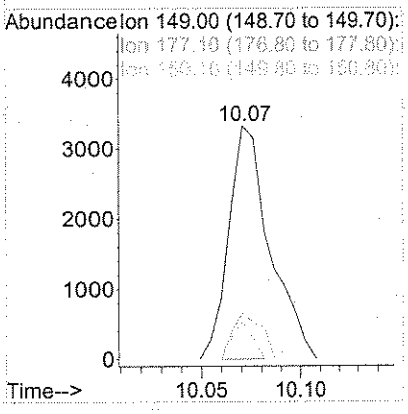


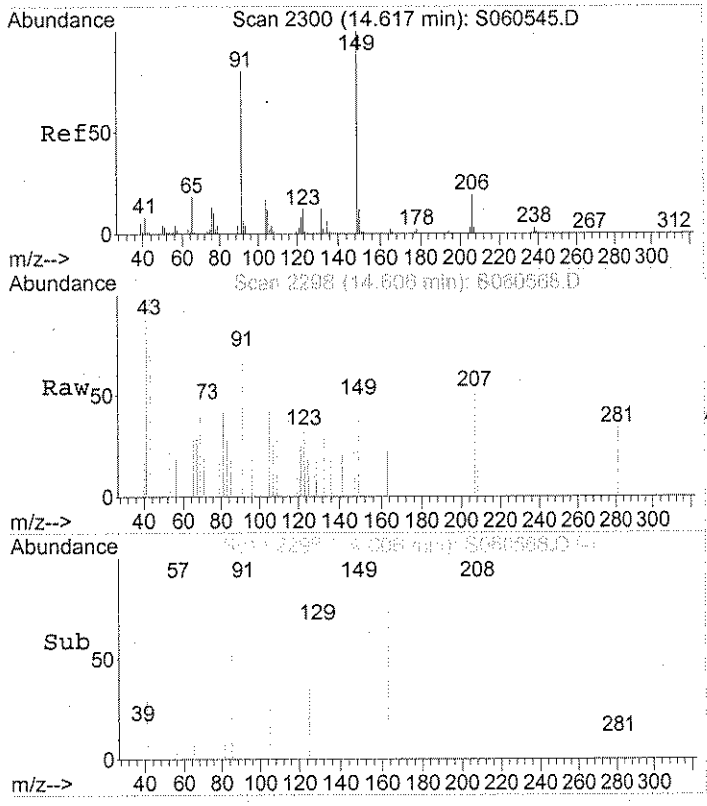


#54
Diethylphthalate
Concen: 0.35 mg/L
RT: 10.07 min Scan# 1449
Delta R.T. -0.05 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:149 Resp: 4786

Ion	Ratio	Lower	Upper
149	100		
177	13.7	17.5	26.3#
150	7.6	9.6	14.4#

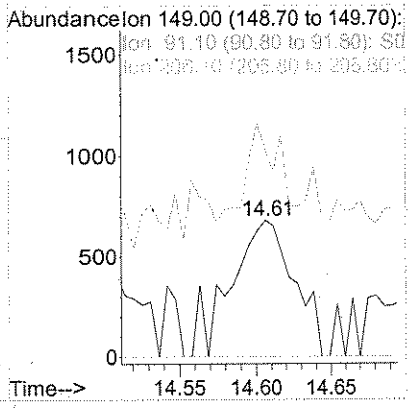


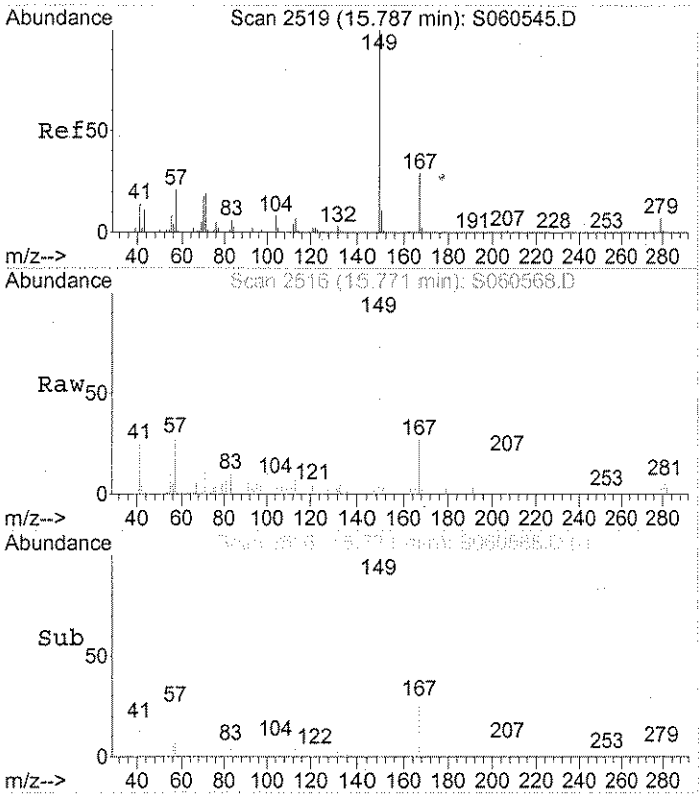


#74
Butylbenzylphthalate
Concen: 2.13 mg/L
RT: 14.61 min Scan# 2298
Delta R.T. -0.01 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:149 Resp: 1996

Ion	Ratio	Lower	Upper
149	100		
91	49.3	56.8	85.2#
206	0.0	15.0	22.6#

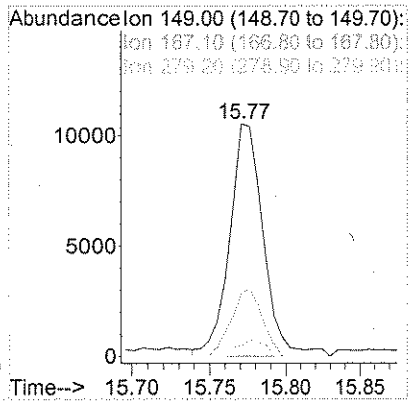


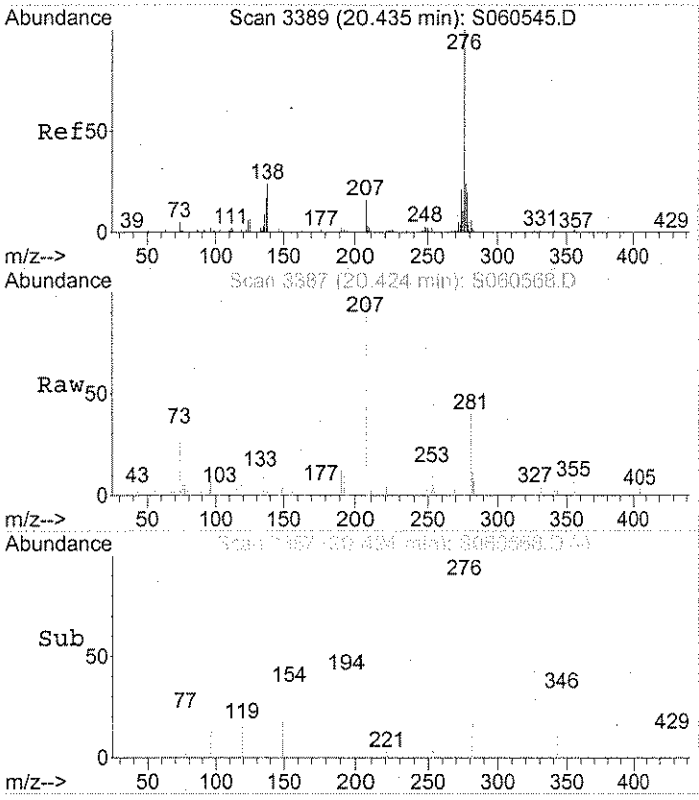


#78
Bis(2-ethylhexyl)phthalate
Concen: 1.54 mg/L
RT: 15.77 min Scan# 2516
Delta R.T. -0.02 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:149 Resp: 16201

Ion	Ratio	Lower	Upper
149	100		
167	26.4	22.6	33.8
279	5.4	4.9	7.3

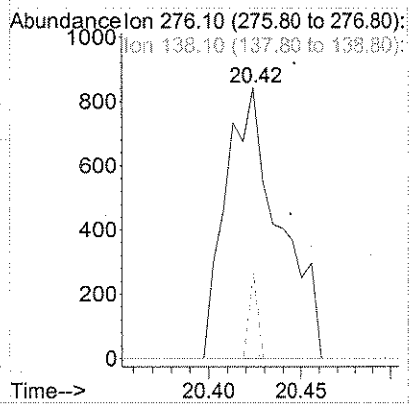


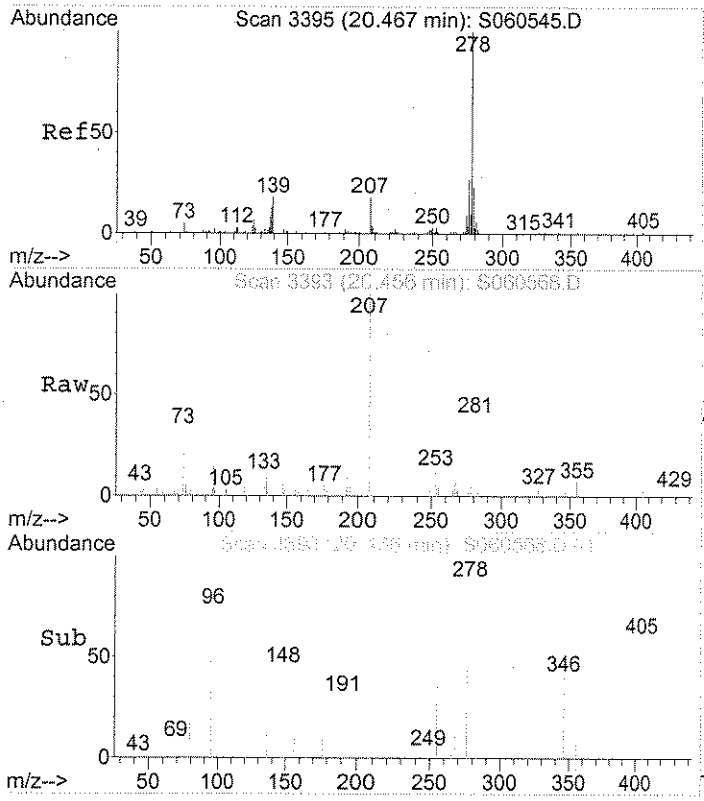


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.24 mg/L
RT: 20.42 min Scan# 3387
Delta R.T. -0.01 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:276 Resp: 1695

Ion	Ratio	Lower	Upper
276	100		
138	5.1	31.0	46.4#

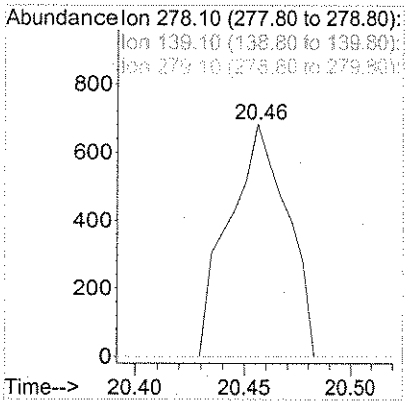


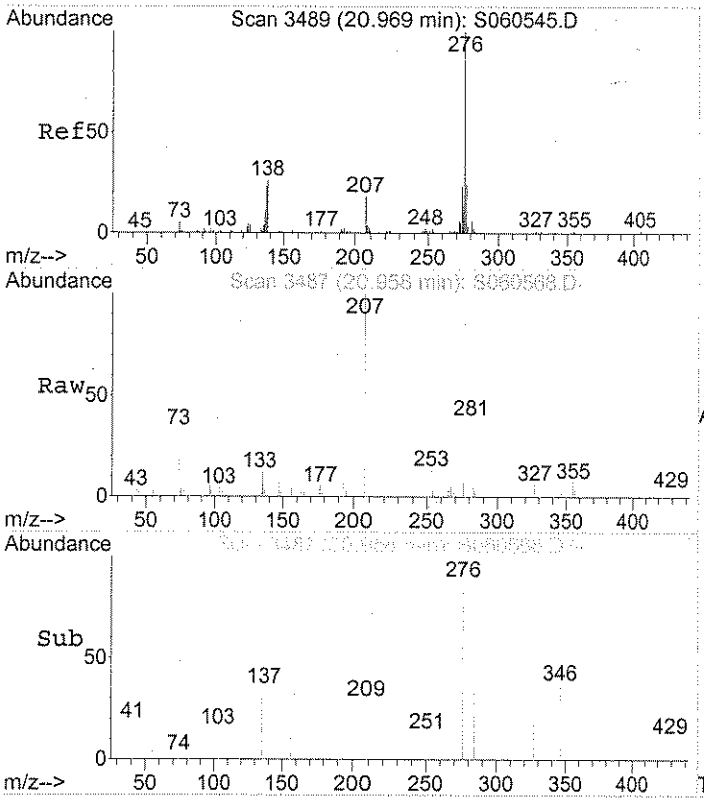


#86
Dibenz(a,h)anthracene
Concen: 0.24 mg/L
RT: 20.46 min Scan# 3393
Delta R.T. -0.01 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:278 Resp: 1286

Ion	Ratio	Lower	Upper
278	100		
139	0.0	23.9	35.9#
279	0.0	20.2	30.2#

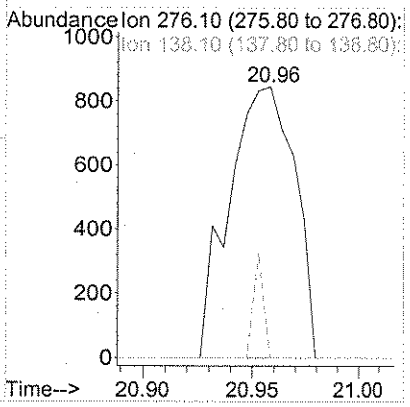




#87
Benzo(g,h,i)perylene
Concen: 0.31 mg/L
RT: 20.96 min Scan# 3487
Delta R.T. -0.01 min
Lab File: S060568.D
Acq: 24 Apr 2006 5:28 pm

Tgt Ion:276 Resp: 1785

Ion	Ratio	Lower	Upper
276	100		
138	5.8	30.8	46.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	03/30/2006	**Receive Date:**	04/03/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	L0600578
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	73378	**Prep Date:**	04/06/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:	Base Neutral / Acid Semivolatile Organic Compounds	**Report List ID:**	LJ1260
Tune Ref:		**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060569.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 18:02	**Quant Date:**	04/25/2006 08:17	**Vial:**	11
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-004			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.61	0.01?	152	207217	40.00	OK
2	Naphthalene-d8	7.26	0.02?	136	823949	40.00	OK
3	Acenaphthene-d10	9.51	0.02?	164	455937	40.00	OK
4	Phenanthrene-d10	11.35	0.01?	188	740193	40.00	OK
5	Chrysene-d12	15.61	0.02?	240	439450	40.00	OK
6	Perylene-d12	18.42	0.03?	264	187388	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	2-Fluorophenol	4.07	0.01	0.00	112	261581	42.11	84	45-101	OK
1	Phenol-d5	5.20	0.01	0.00	99	344922	43.32	87	49-107	OK
2	Nitrobenzene-d5	6.36	0.01	0.00	82	356938	48.39	97	58-105	OK
3	2-Fluorobiphenyl	8.65	0.01	0.00	172	635253	45.97	92	50-101	OK
4	2,4,6-Tribromophenol	10.50	0.01	0.00	330	122302	53.87	108	43-104	*
5	Terphenyl-d14	13.68	0.03	0.00	244	422039	42.05	84	34-120	OK

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.43		0.00	88	266151m	94.54	90		
1	N-Nitrosodimethylamine				42	0d		2.8	U	
1	Pyridine				79	0		2.9	U	
1	Aniline				93	0		3.0	U	
1	Phenol				94	0		1.0	U	
1	Bis(2-chloroethyl) Ether				93	0		1.0	U	
1	2-Chlorophenol				128	0		1.0	U	
1	1,3-Dichlorobenzene				146	0		1.0	U	
1	1,4-Dichlorobenzene				146	0		1.0	U	
1	Benzyl alcohol				108	0d		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060569.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 18:02	**Quant Date:**	04/25/2006 08:17	**Vial:**	11
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-004			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		1.0	U	
1	2-Methylphenol				108	0		1.0	U	
1	Bis(2-chloroisopropyl) Ether				45	0		1.0	U	
1	N-Nitrosodi-n-propylamine				70	0d		1.0	U	
1	Hexachloroethane				117	0		4.0	U	
1	3- and 4-Methylphenol Coelutio				107	0		1.0	U	
2	Nitrobenzene				77	0		1.0	U	
2	Isophorone				82	0		1.0	U	
2	2-Nitrophenol				139	0		1.0	U	
2	2,4-Dimethylphenol				122	0d		2.0	U	
2	bis(2-Chloroethoxy)methane				93	0		1.0	U	
2	2,4-Dichlorophenol				162	0		1.0	U	
2	1,2,4-Trichlorobenzene				180	0		1.5	U	
2	Benzoic acid	6.93	-0.08	-0.01	122	4423	3.80	3.6	J	
2	Naphthalene				128	0		1.0	U	
2	4-Chloroaniline				127	0		1.7	U	
2	Hexachlorobutadiene				225	0		1.6	U	
2	4-Chloro-3-methylphenol				107	0		1.0	U	
2	2-Methylnaphthalene				142	0		1.0	U	
3	Hexachlorocyclopentadiene				237	0		1.0	U	
3	2,4,6-Trichlorophenol				196	0		2.2	U	
3	2,4,5-Trichlorophenol				196	0		2.2	U	
3	2-Chloronaphthalene				162	0		1.0	U	
3	2-Nitroaniline				65	0		1.0	U	
3	Dimethyl Phthalate				163	0		1.0	U	
3	Acenaphthylene				152	0		1.0	U	
3	2,6-Dinitrotoluene				165	0d		1.8	U	
3	3-Nitroaniline				138	0		1.5	U	
3	Acenaphthene				154	0		1.0	U	
3	2,4-Dinitrophenol				184	0		1.5	U	
3	Dibenzofuran				168	0		1.0	U	
3	4-Nitrophenol				109	0d		1.7	U	
3	2,4-Dinitrotoluene				165	0		1.0	U	
3	Fluorene				166	0		1.0	U	
3	Diethyl Phthalate				149	0		6.6	U	
3	4-Chlorophenyl Phenyl Ether				204	0		1.0	U	
3	4-Nitroaniline				138	0		1.9	U	
4	2-Methyl-4,6-dinitrophenol				198	0		1.5	U	
4	N-Nitrosodiphenylamine				169	0d		1.0	U	
4	4-Bromophenyl Phenyl Ether				248	0d		2.0	U	
4	Hexachlorobenzene				284	0		1.0	U	
4	Pentachlorophenol				266	0		1.4	U	
4	Phenanthrene				178	0		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060569.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 18:02	**Quant Date:**	04/25/2006 08:17	**Vial:**	11
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-004			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		1.0	U	
4	Di-n-butyl Phthalate				149	0		2.0	U	
4	Fluoranthene				202	0		1.0	U	
5	Pyrene				202	0		1.0	U	
5	Butyl Benzyl Phthalate				149	0d		1.6	U	
5	Benz(a)anthracene				228	0		1.5	U	
5	3,3'-Dichlorobenzidine				252	0		3.5	U	
5	Chrysene				228	0		1.5	U	
5	Bis(2-ethylhexyl) Phthalate	15.77	0.03	0.00	149	6209	0.7300	1.0	U	
6	Di-n-octyl Phthalate				149	0		1.3	U	
6	Benzo(b)fluoranthene				252	0		1.7	U	
6	Benzo(k)fluoranthene				252	0		1.9	U	
6	Benzo(a)pyrene				252	0		1.8	U	
6	Indeno(1,2,3-cd)pyrene				276	0		3.8	U	
6	Dibenz(a,h)anthracene				278	0		3.4	U	
6	Benzo(g,h,i)perylene				276	0		4.1	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060569.D Vial: 11
Acq On : 24 Apr 2006 6:02 pm Operator: SC
Sample : L0600578-004 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 08:14:56 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E 4/25/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	207217	40.00	mg/L	-0.01
22) Naphthalene-d8	7.26	136	823949	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.51	164	455937	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.35	188	740193	40.00	mg/L	-0.02
70) Chrysene-d12	15.61	240	439450	40.00	mg/L	-0.02
80) Perylene-d12	18.42	264	187388	40.00	mg/L	-0.02
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	261581	42.11	mg/L	-0.02
Spiked Amount 50.000			Recovery =	84.22%		
7) Phenol-d5	5.20	99	344922	43.32	mg/L	-0.02
Spiked Amount 50.000			Recovery =	86.64%		
23) Nitrobenzene-d5	6.36	82	356938	48.39	mg/L	-0.02
Spiked Amount 50.000			Recovery =	96.78%		
41) 2-Fluorobiphenyl	8.65	172	635253	45.97	mg/L	-0.01
Spiked Amount 50.000			Recovery =	91.94%		
61) 2,4,6-Tribromophenol	10.50	330	122302	53.87	mg/L	-0.02
Spiked Amount 50.000			Recovery =	107.74%		
73) Terphenyl-d14	13.68	244	422039	42.05	mg/L	-0.02
Spiked Amount 50.000			Recovery =	84.10%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	266151m	94.54	mg/L	
31) Benzoic acid	6.93	122	4423	3.80	mg/L #	77
78) Bis(2-ethylhexyl)phthalate	15.77	149	6209	0.73	mg/L #	98

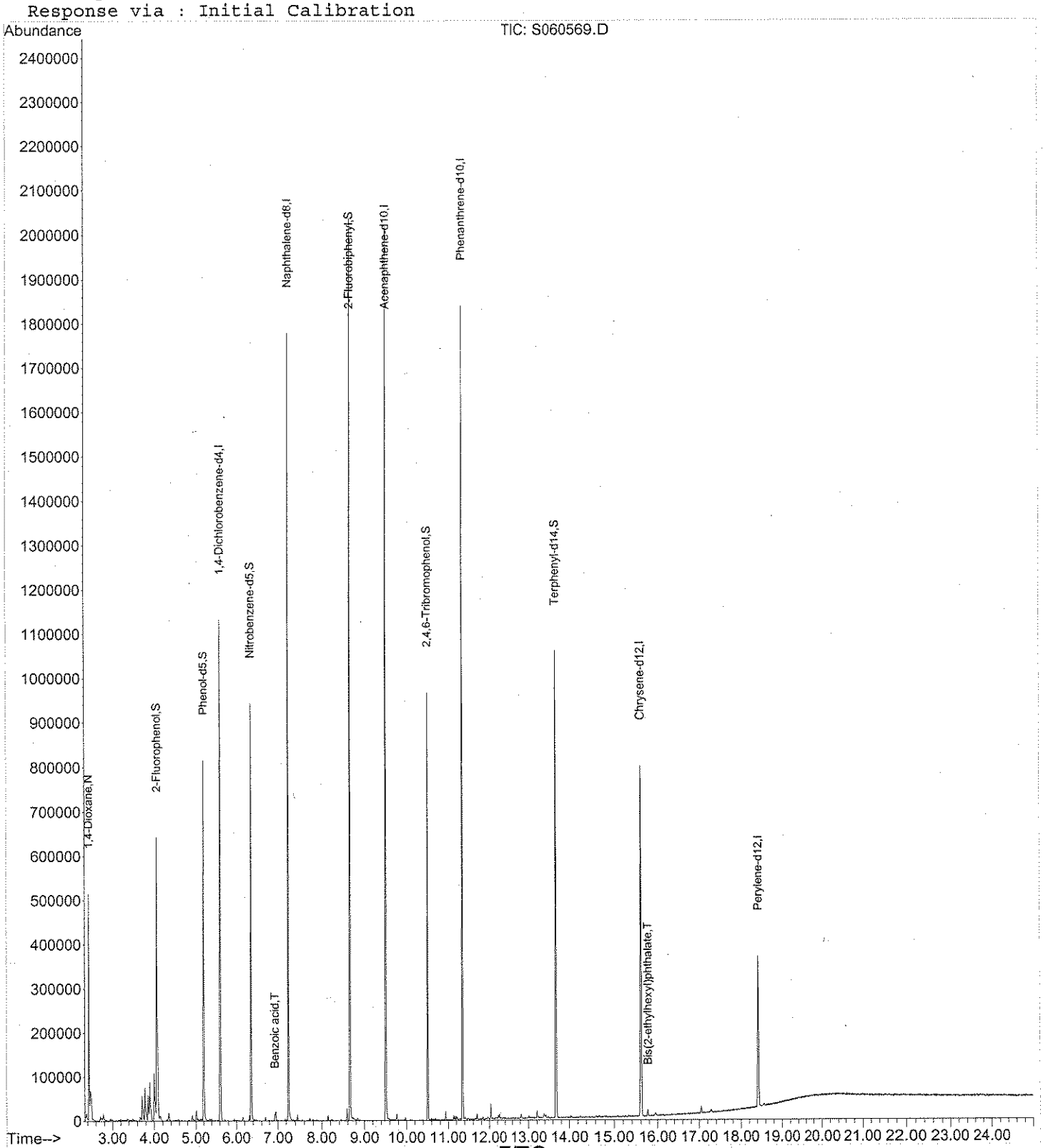
DA 4/27/06

(#) = qualifier out of range (m) = manual integration
S060569.D BA060422.M Tue Apr 25 08:17:42 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060569.D Vial: 11
Acq On : 24 Apr 2006 6:02 pm Operator: SC
Sample : L0600578-004 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:17 2006 Quant Results File: BA060422.RES

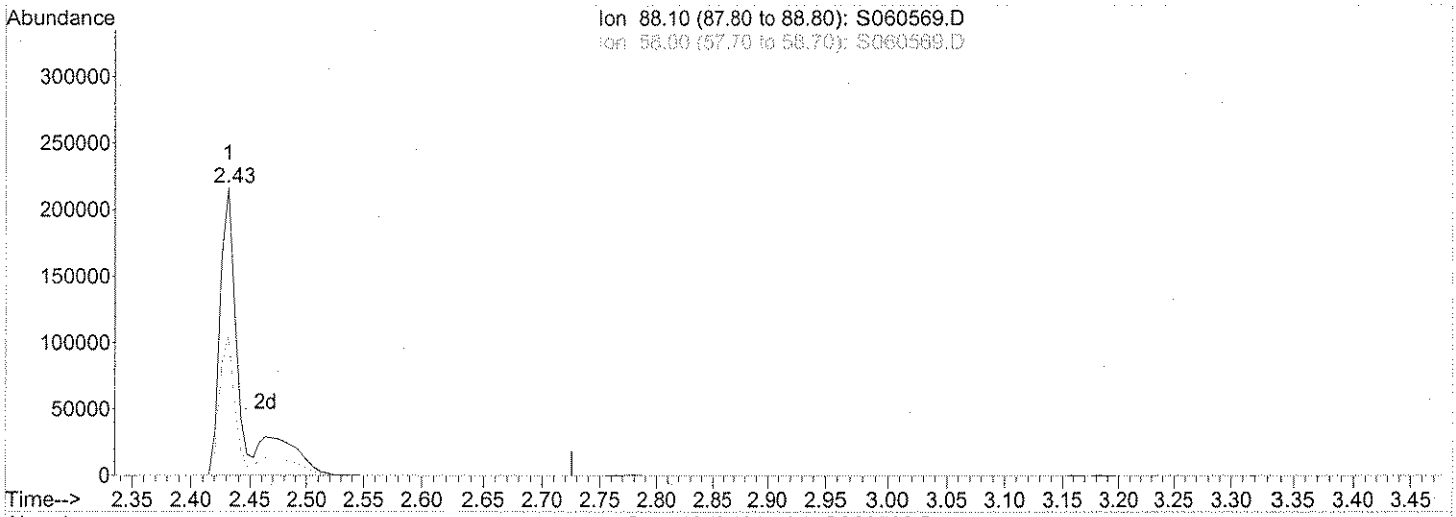
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

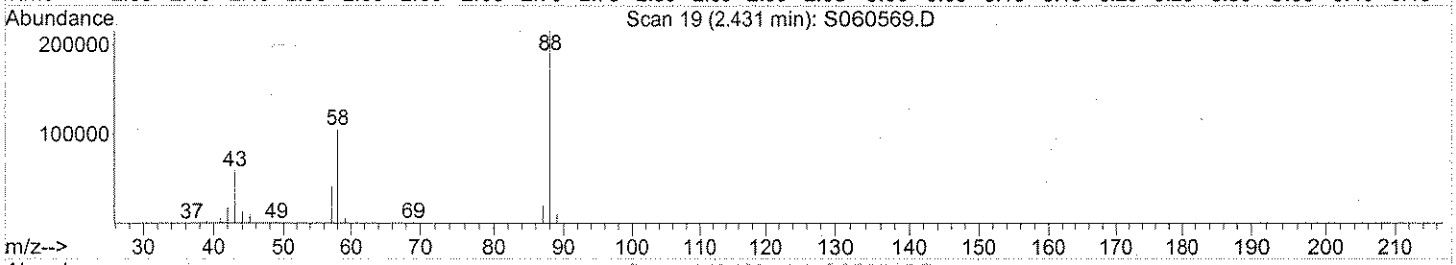


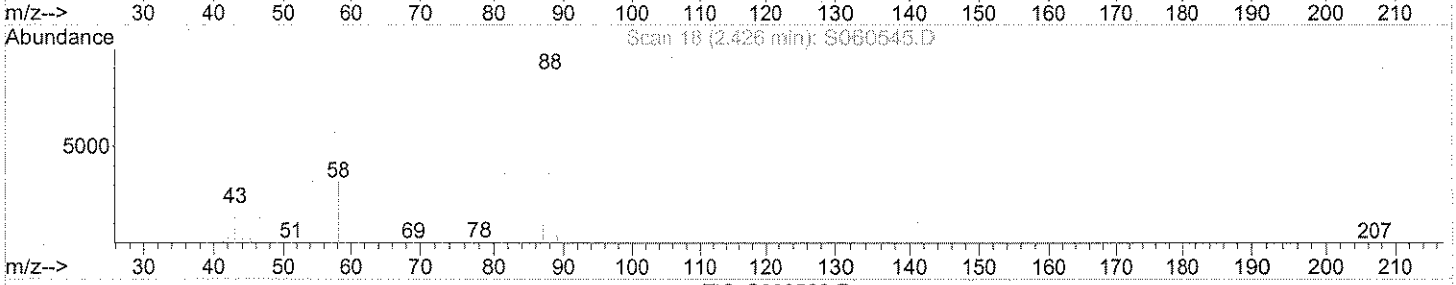
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060569.D Vial: 11
Acq On : 24 Apr 2006 6:02 pm Operator: SC
Sample : L0600578-004 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:16 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060569.D

(2) 1,4-Dioxane (N)

2.43min 94.54mg/L m

response 266151

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	35.37#
0.00	0.00	0.00
0.00	0.00	0.00

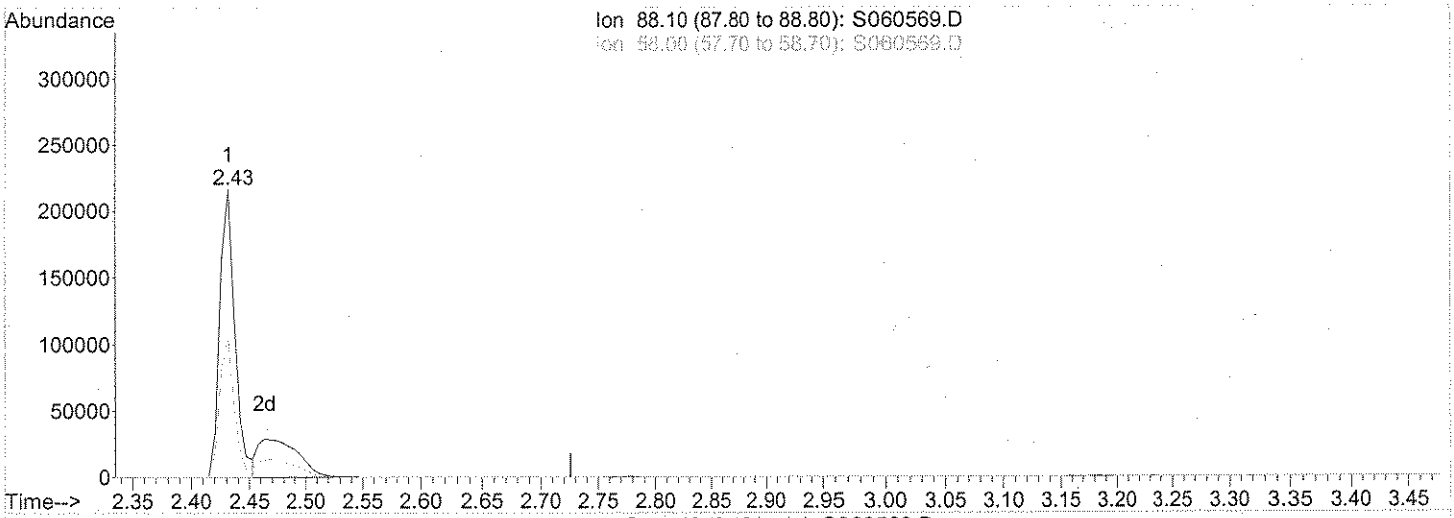
Spike Prep 4/25/06

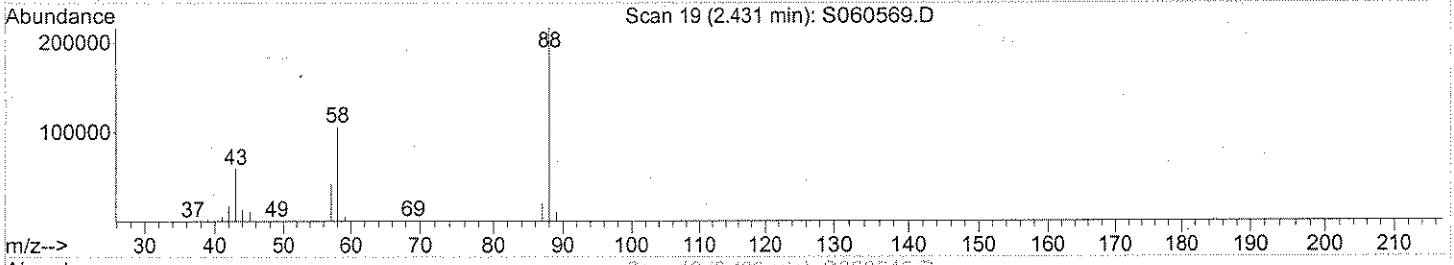
DH 4/27/06

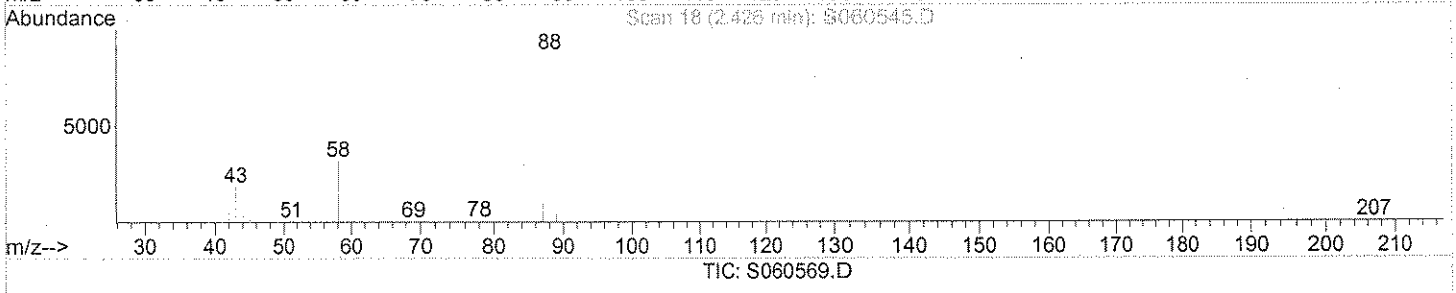
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060569.D Vial: 11
Acq On : 24 Apr 2006 6:02 pm Operator: SC
Sample : L0600578-004 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:14 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060569.D

(2) 1,4-Dioxane (N)

2.43min 69.46mg/L

response 195549

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	48.14#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060569.D Vial: 11
Acq On : 24 Apr 2006 6:02 pm Operator: SC
Sample : L0600578-004 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 08:14:56 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

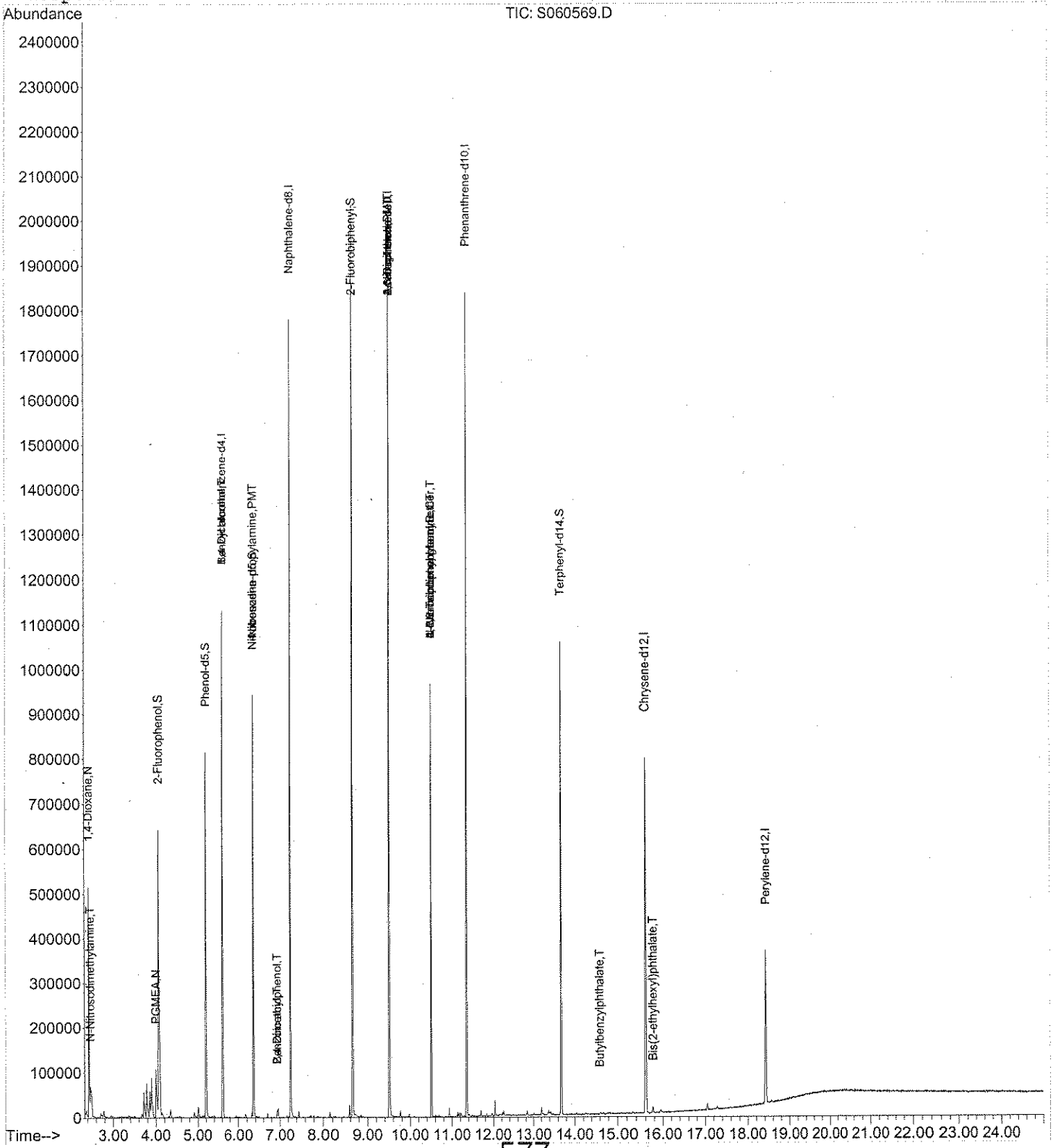
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	207217	40.00	mg/L	-0.01
22) Naphthalene-d8	7.26	136	823949	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.51	164	455937	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.35	188	740193	40.00	mg/L	-0.02
70) Chrysene-d12	15.61	240	439450	40.00	mg/L	-0.02
80) Perylene-d12	18.42	264	187388	40.00	mg/L	-0.02
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	261581	42.11	mg/L	-0.02
Spiked Amount 50.000			Recovery = 84.22%			
7) Phenol-d5	5.20	99	344922	43.32	mg/L	-0.02
Spiked Amount 50.000			Recovery = 86.64%			
23) Nitrobenzene-d5	6.36	82	356938	48.39	mg/L	-0.02
Spiked Amount 50.000			Recovery = 96.78%			
41) 2-Fluorobiphenyl	8.65	172	635253	45.97	mg/L	-0.01
Spiked Amount 50.000			Recovery = 91.94%			
61) 2,4,6-Tribromophenol	10.50	330	122302	53.87	mg/L	-0.02
Spiked Amount 50.000			Recovery = 107.74%			
73) Terphenyl-d14	13.68	244	422039	42.05	mg/L	-0.02
Spiked Amount 50.000			Recovery = 84.10%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	195549	69.46	mg/L #	83
3) N-Nitrosodimethylamine	2.47	42	5817	2.08	mg/L #	1
5) PGMEA	4.00	43	16779	4.15	mg/L #	69
14) Benzyl alcohol	5.61	108	1030	0.26	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.36	70	52160	9.38	mg/L #	12
27) 2,4-Dimethylphenol	6.93	122	4423	0.75	mg/L #	6
31) Benzoic acid	6.93	122	4423	3.80	mg/L #	77
46) 2,6-Dinitrotoluene	9.51	165	59639	18.20	mg/L #	23
51) 4-Nitrophenol	9.51	109	1064	0.61	mg/L #	7
59) N-Nitrosodiphenylamine	10.50	169	3114	0.35	mg/L #	28
62) 4-Bromophenyl phenyl ether	10.50	248	4894	1.19	mg/L #	1
74) Butylbenzylphthalate	14.60	149	618	1.99	mg/L #	80
78) Bis(2-ethylhexyl)phthalate	15.77	149	6209	0.73	mg/L #	98

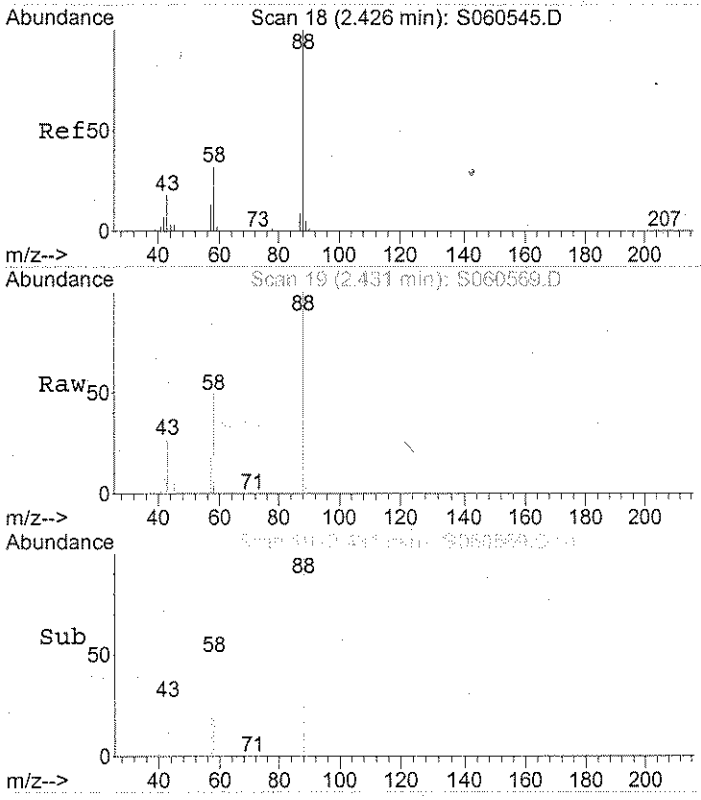
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060569.D Vial: 11
Acq On : 24 Apr 2006 6:02 pm Operator: SC
Sample : L0600578-004 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:14 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

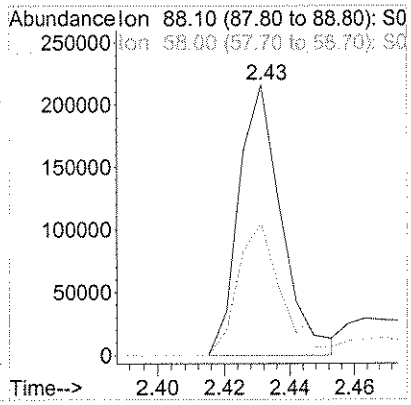


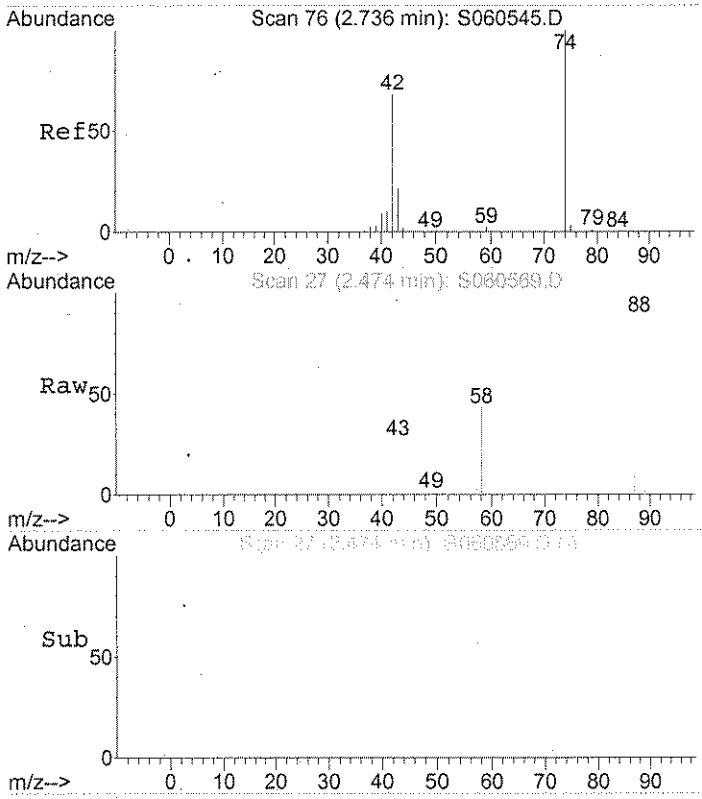


#2
1,4-Dioxane
Concen: 69.46 mg/L
RT: 2.43 min Scan# 19
Delta R.T. 0.01 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion: 88 Resp: 195549

Ion	Ratio	Lower	Upper
88	100		
58	48.1	49.0	73.6#

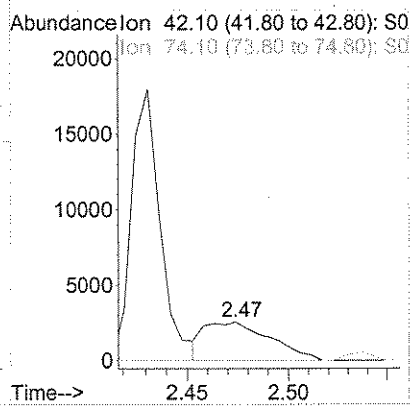


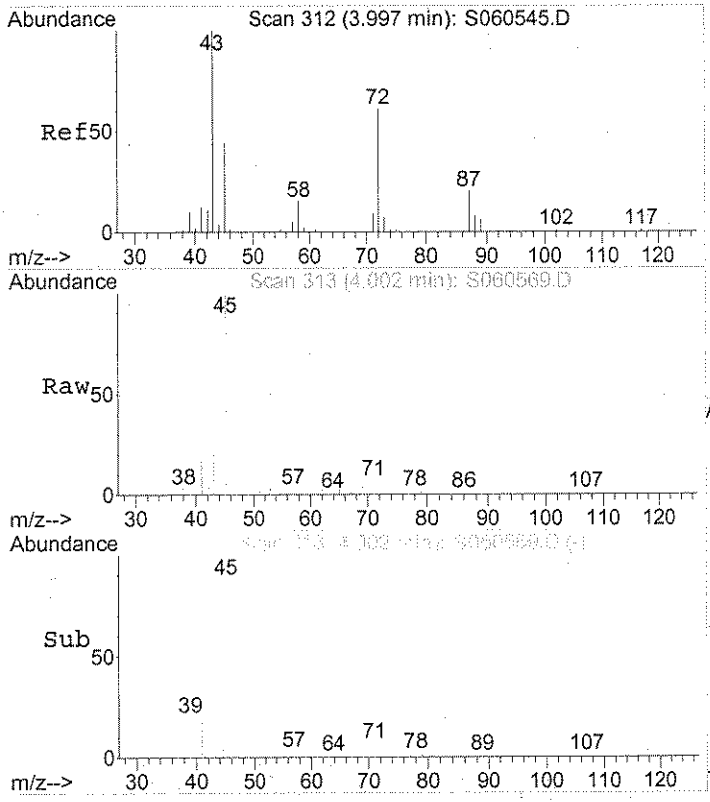


#3
N-Nitrosodimethylamine
Concen: 2.08 mg/L
RT: 2.47 min Scan# 27
Delta R.T. -0.26 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion: 42 Resp: 5817

Ion	Ratio	Lower	Upper
42	100		
74	8.4	92.4	138.6#

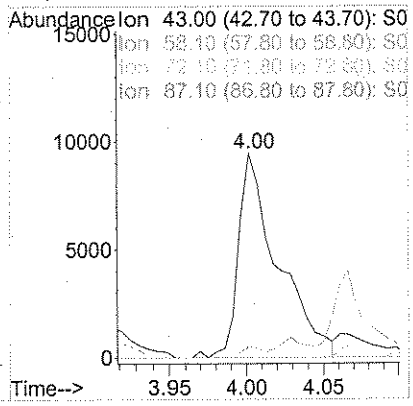


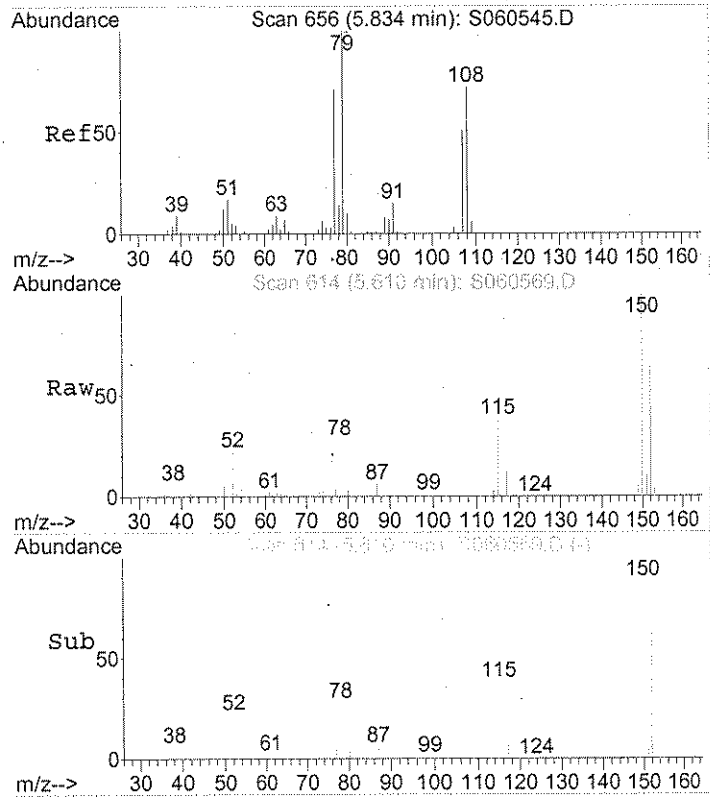


#5
PGMEA
Concen: 4.15 mg/L
RT: 4.00 min Scan# 313
Delta R.T. 0.01 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion: 43 Resp: 16779

Ion	Ratio	Lower	Upper
43	100		
58	2.8	8.0	12.0#
72	0.0	14.6	21.8#
87	0.0	5.1	7.7#

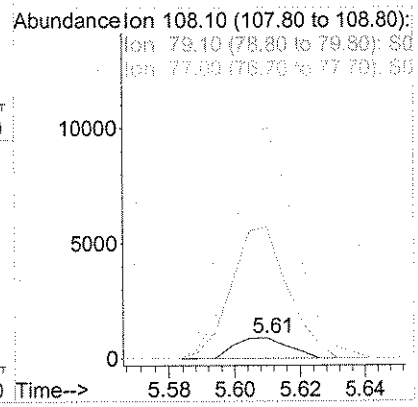


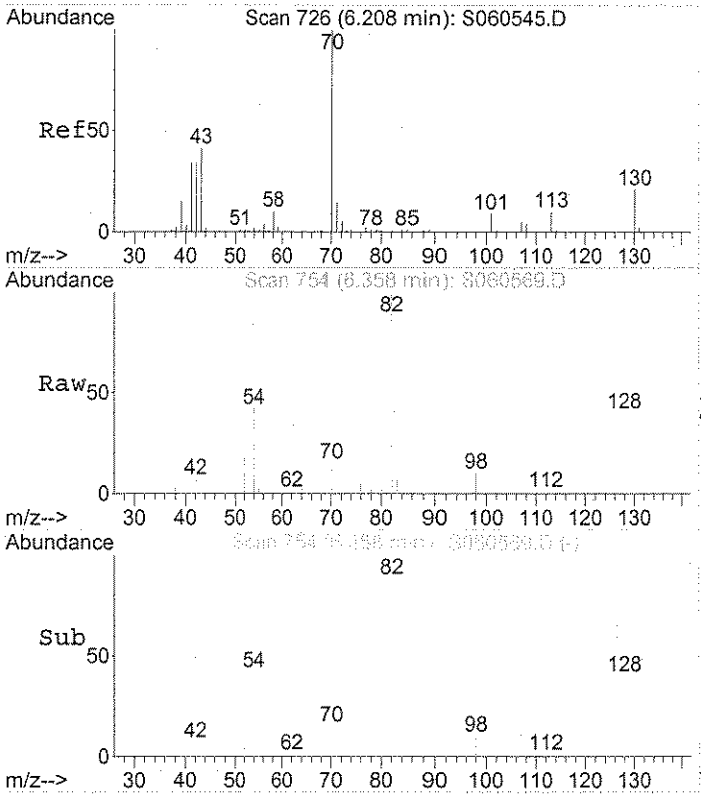


#14
Benzyl alcohol
Concen: 0.26 mg/L
RT: 5.61 min Scan# 614
Delta R.T. -0.22 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion:108 Resp: 1030

Ion	Ratio	Lower	Upper
108	100		
79	668.0	93.8	140.8#
77	1241.8	61.0	91.4#

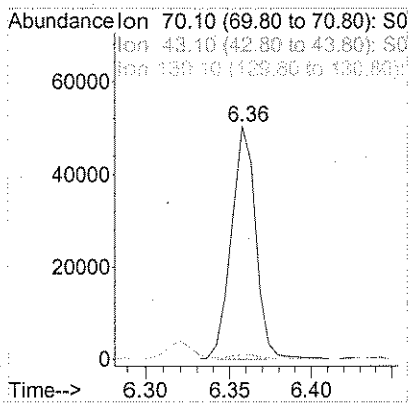


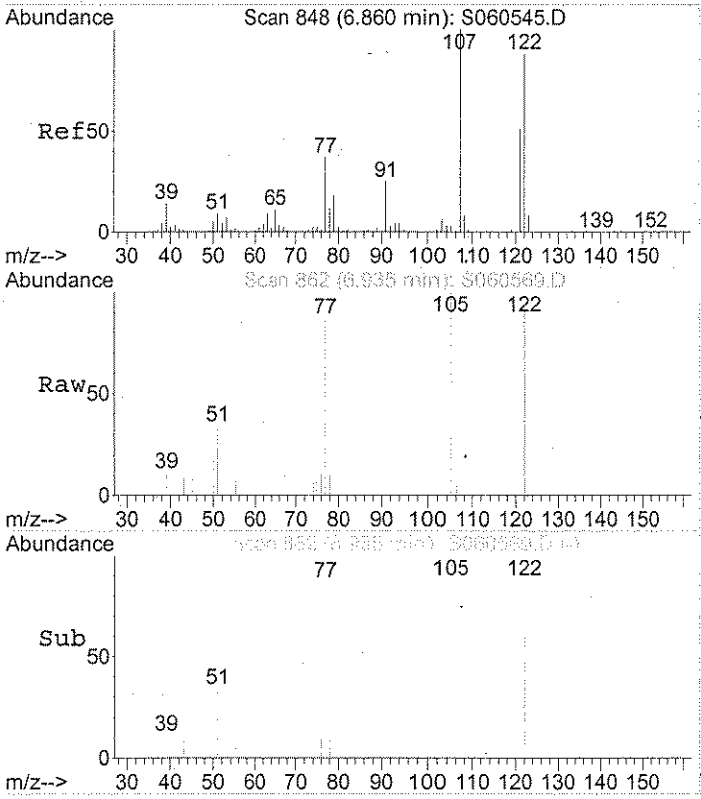


#19
N-Nitrosodi-n-propylamine
Concen: 9.38 mg/L
RT: 6.36 min Scan# 754
Delta R.T. 0.15 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion: 70 Resp: 52160

Ion	Ratio	Lower	Upper
70	100		
43	2.6	80.8	121.2#
130	1.7	19.1	28.7#

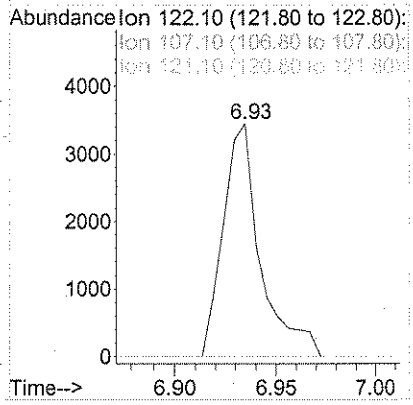


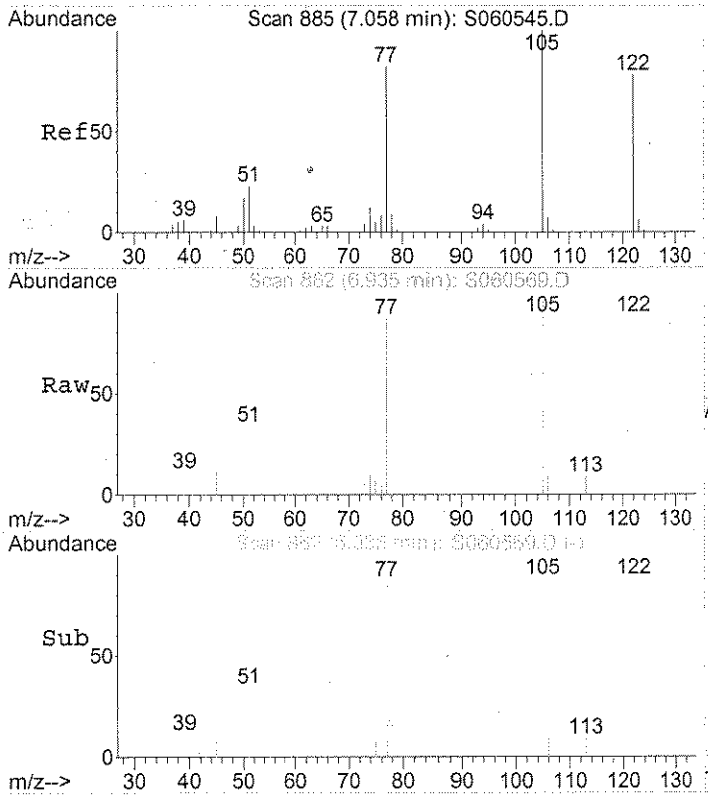


#27
2,4-Dimethylphenol
Concen: 0.75 mg/L
RT: 6.93 min Scan# 862
Delta R.T. 0.07 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion:122 Resp: 4423

Ion	Ratio	Lower	Upper
122	100		
107	0.0	84.8	127.2#
121	0.0	46.1	69.1#

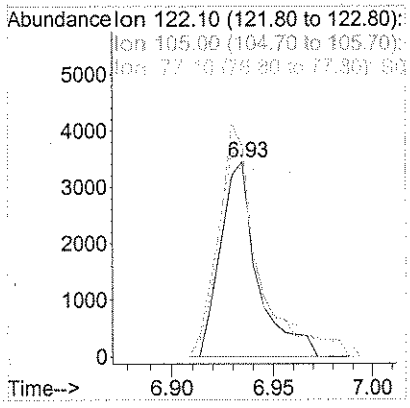


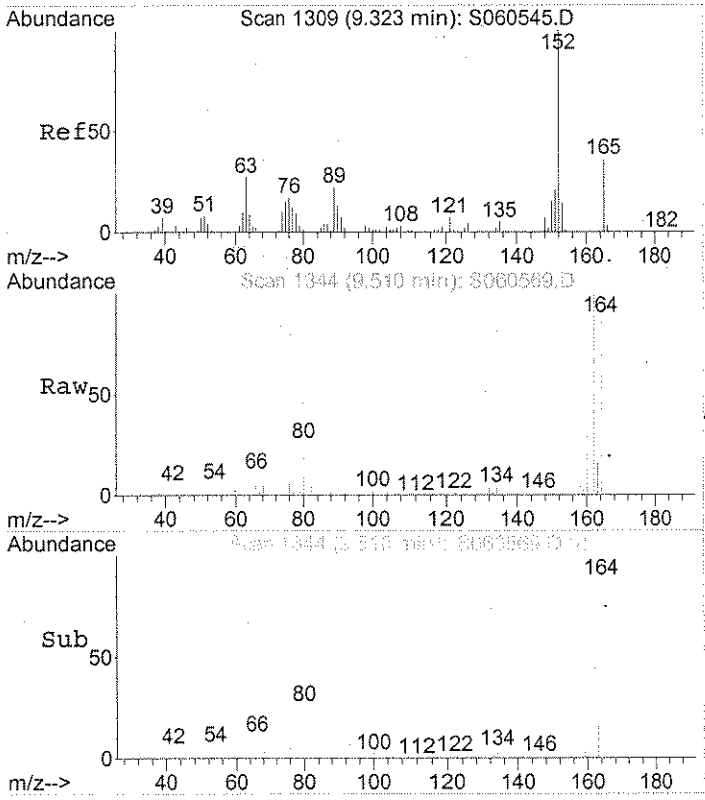


#31
Benzoic acid
Concen: 3.80 mg/L
RT: 6.93 min Scan# 862
Delta R.T. -0.12 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion:122 Resp: 4423

Ion	Ratio	Lower	Upper
122	100		
105	129.0	93.8	140.6
77	121.3	67.5	101.3#

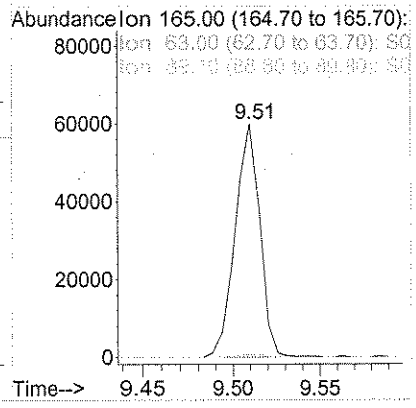


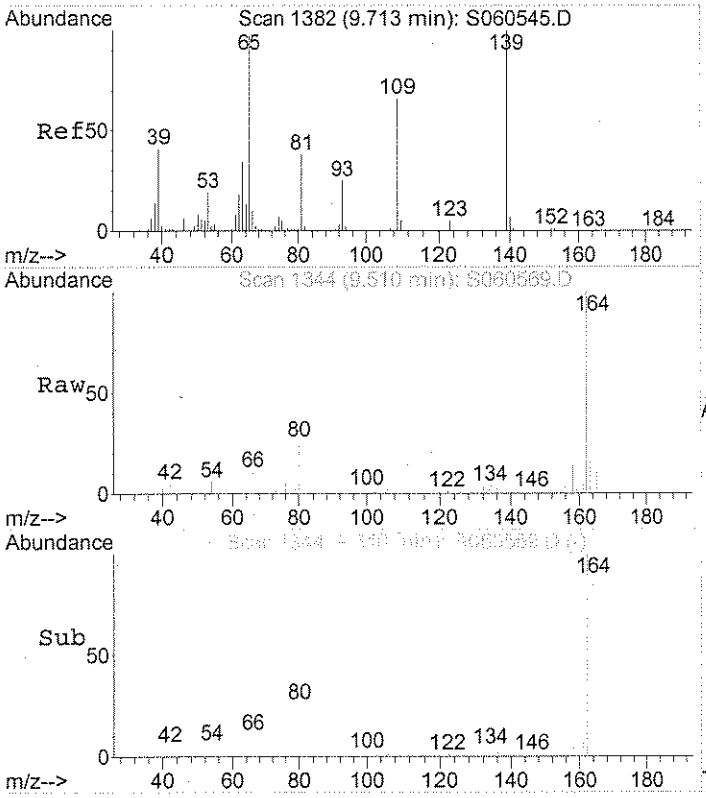


#46
2,6-Dinitrotoluene
Concen: 18.20 mg/L
RT: 9.51 min Scan# 1344
Delta R.T. 0.19 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion:165 Resp: 59639

Ion	Ratio	Lower	Upper
165	100		
63	0.9	54.4	81.6#
89	1.5	36.9	55.3#

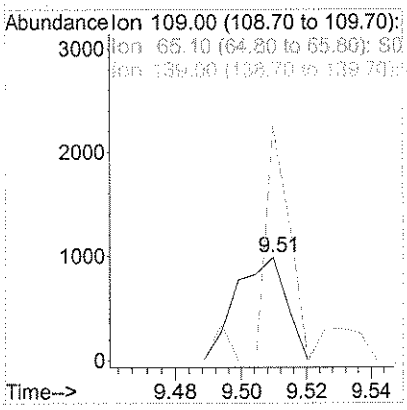


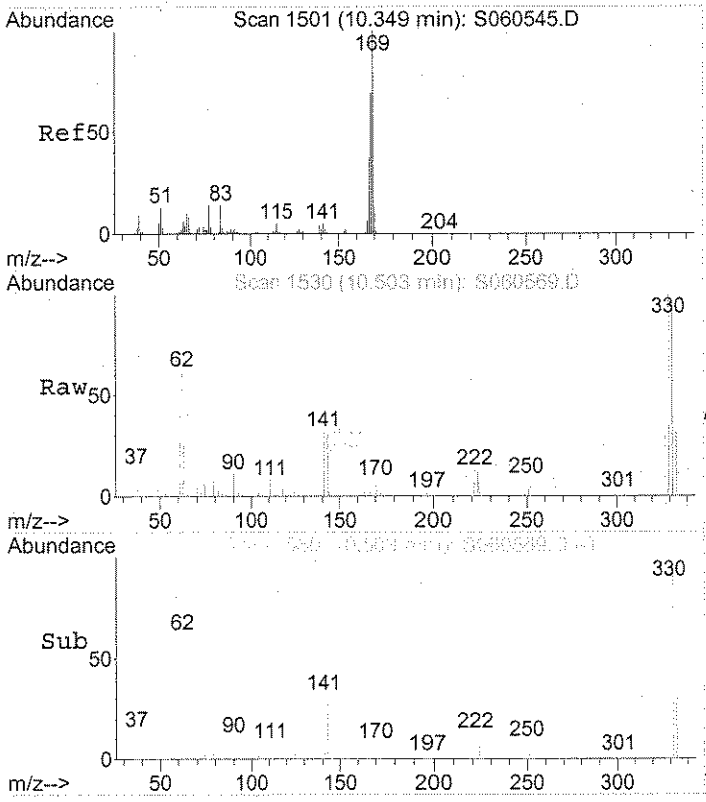


#51
4-Nitrophenol
Concen: 0.61 mg/L
RT: 9.51 min Scan# 1344
Delta R.T. -0.20 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion:109 Resp: 1064

Ion	Ratio	Lower	Upper
109	100		
65	134.7	158.2	237.4#
139	0.0	178.5	267.7#

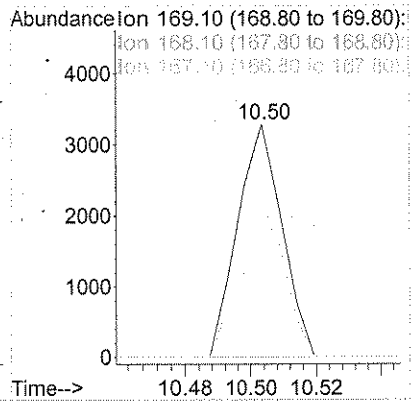


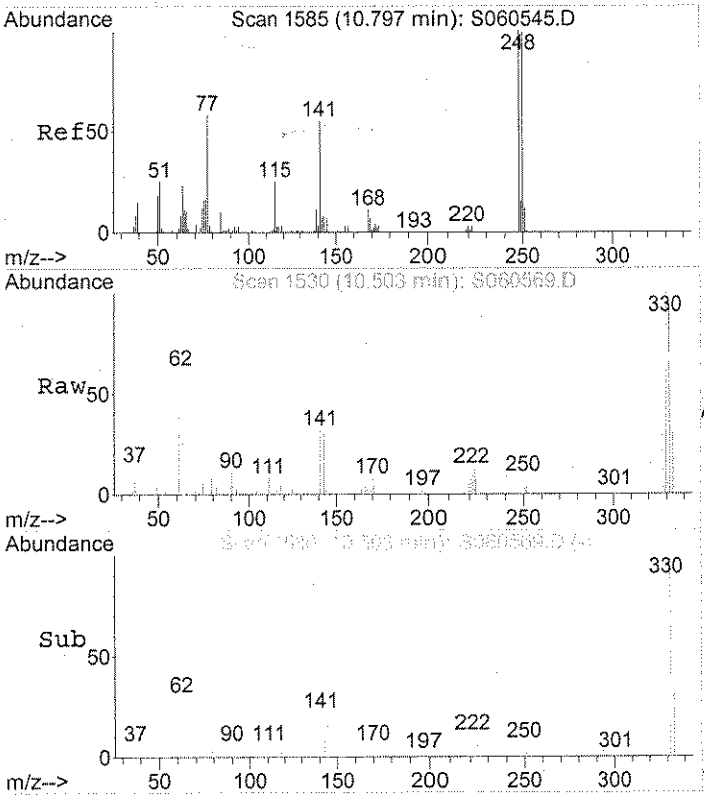


#59
N-Nitrosodiphenylamine
Concen: 0.35 mg/L
RT: 10.50 min Scan# 1530
Delta R.T. 0.15 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion:169 Resp: 3114

Ion	Ratio	Lower	Upper
169	100		
168	0.0	54.0	81.0#
167	62.9	28.1	42.1#

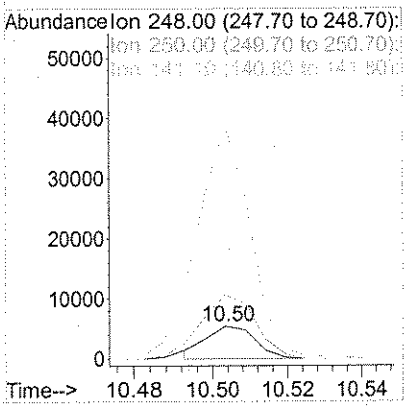


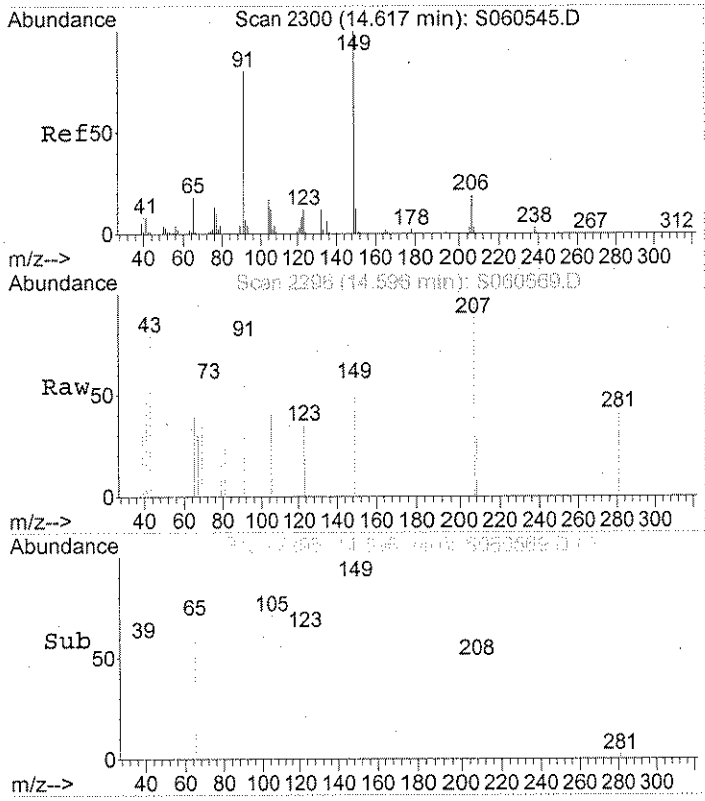


#62
4-Bromophenyl phenyl ether
Concen: 1.19 mg/L
RT: 10.50 min Scan# 1530
Delta R.T. -0.29 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion:248 Resp: 4894

Ion	Ratio	Lower	Upper
248	100		
250	202.1	77.6	116.4#
141	677.9	49.4	74.0#

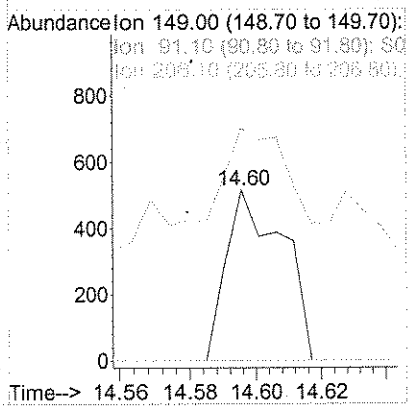


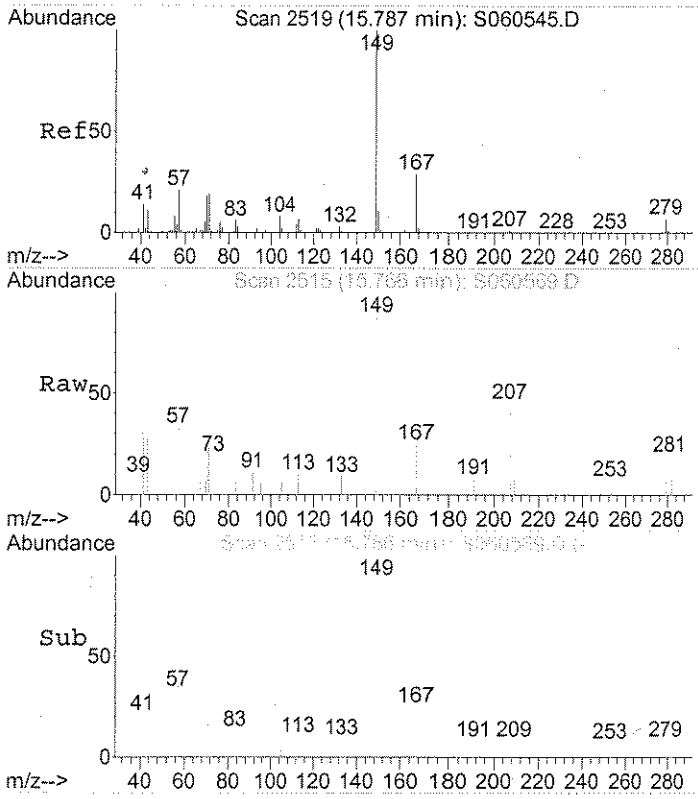


#74
Butylbenzylphthalate
Concen: 1.99 mg/L
RT: 14.60 min Scan# 2296
Delta R.T. -0.02 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion:149 Resp: 618

Ion	Ratio	Lower	Upper
149	100		
91	58.9	56.8	85.2
206	0.0	15.0	22.6#

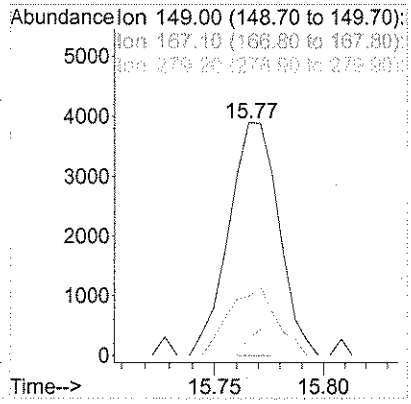




#78
Bis(2-ethylhexyl)phthalate
Concen: 0.73 mg/L
RT: 15.77 min Scan# 2515
Delta R.T. -0.02 min
Lab File: S060569.D
Acq: 24 Apr 2006 6:02 pm

Tgt Ion:149 Resp: 6209

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.6	33.8
279	3.7	4.9	7.3#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	03/31/2006	**Receive Date:**	04/03/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	L0600578
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	73379	**Prep Date:**	04/06/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:	Base Neutral / Acid Semivolatile Organic Compounds	**Report List ID:**	LJ1260
Tune Ref:		**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060570.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 18:36	**Quant Date:**	04/25/2006 08:22	**Vial:**	12
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-005			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.61	0.01?	152	202070	40.00	OK
2	Naphthalene-d8	7.26	0.02?	136	798531	40.00	OK
3	Acenaphthene-d10	9.52	0.03?	164	442285	40.00	OK
4	Phenanthrene-d10	11.36	0.02?	188	734642	40.00	OK
5	Chrysene-d12	15.62	0.03?	240	438886	40.00	OK
6	Perylene-d12	18.44	0.05?	264	244760	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.07	0.01	0.00	112	257039	42.43	85	45-101	OK	
1	Phenol-d5	5.21	0.02	0.00	99	325699	41.95	84	49-107	OK	
2	Nitrobenzene-d5	6.36	0.01	0.00	82	362992	50.78	102	58-105	OK	
3	2-Fluorobiphenyl	8.66	0.02	0.00	172	636763	47.50	95	50-101	OK	
4	2,4,6-Tribromophenol	10.51	0.02	0.00	330	117710	52.24	104	43-104	OK	
5	Terphenyl-d14	13.69	0.04	0.00	244	461586	46.05	92	34-120	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.50	U	
1	N-Nitrosodimethylamine				42	0		2.8	U	
1	Pyridine				79	0		2.9	U	
1	Aniline				93	0		3.0	U	
1	Phenol				94	0		1.0	U	
1	Bis(2-chloroethyl) Ether				93	0		1.0	U	
1	2-Chlorophenol				128	0		1.0	U	
1	1,3-Dichlorobenzene				146	0		1.0	U	
1	1,4-Dichlorobenzene				146	0		1.0	U	
1	Benzyl alcohol				108	0d		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060570.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 18:36	**Quant Date:**	04/25/2006 08:22	**Vial:**	12
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-005			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		1.0	U	
1	2-Methylphenol				108	0d		1.0	U	
1	Bis(2-chloroisopropyl) Ether				45	0d		1.0	U	
1	N-Nitrosodi-n-propylamine				70	0d		1.0	U	
1	Hexachloroethane				117	0		4.0	U	
1	3- and 4-Methylphenol Coelutio	6.17	0.01	0.00	107	2094	0.5400	1.0	U	
2	Nitrobenzene				77	0		1.0	U	
2	Isophorone				82	0		1.0	U	
2	2-Nitrophenol				139	0		1.0	U	
2	2,4-Dimethylphenol				122	0d		2.0	U	
2	bis(2-Chloroethoxy)methane				93	0		1.0	U	
2	2,4-Dichlorophenol				162	0		1.0	U	
2	1,2,4-Trichlorobenzene				180	0		1.5	U	
2	Benzoic acid	7.00	-0.01	0.00	122	8273	4.67	4.7	J	
2	Naphthalene				128	0		1.0	U	
2	4-Chloroaniline				127	0		1.7	U	
2	Hexachlorobutadiene				225	0		1.6	U	
2	4-Chloro-3-methylphenol				107	0		1.0	U	
2	2-Methylnaphthalene				142	0		1.0	U	
3	Hexachlorocyclopentadiene				237	0		1.0	U	
3	2,4,6-Trichlorophenol				196	0		2.2	U	
3	2,4,5-Trichlorophenol				196	0		2.2	U	
3	2-Chloronaphthalene				162	0		1.0	U	
3	2-Nitroaniline				65	0		1.0	U	
3	Dimethyl Phthalate				163	0		1.0	U	
3	Acenaphthylene				152	0		1.0	U	
3	2,6-Dinitrotoluene				165	0d		1.8	U	
3	3-Nitroaniline				138	0		1.5	U	
3	Acenaphthene				154	0		1.0	U	
3	2,4-Dinitrophenol				184	0		1.5	U	
3	Dibenzofuran				168	0		1.0	U	
3	4-Nitrophenol				109	0d		1.7	U	
3	2,4-Dinitrotoluene				165	0d		1.0	U	
3	Fluorene				166	0		1.0	U	
3	Diethyl Phthalate				149	0		6.6	U	
3	4-Chlorophenyl Phenyl Ether				204	0		1.0	U	
3	4-Nitroaniline				138	0		1.9	U	
4	2-Methyl-4,6-dinitrophenol				198	0		1.5	U	
4	N-Nitrosodiphenylamine				169	0		1.0	U	
4	4-Bromophenyl Phenyl Ether				248	0d		2.0	U	
4	Hexachlorobenzene				284	0		1.0	U	
4	Pentachlorophenol				266	0		1.4	U	
4	Phenanthrene				178	0		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060570.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 18:36	**Quant Date:**	04/25/2006 08:22	**Vial:**	12
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-005			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		1.0	U	
4	Di-n-butyl Phthalate				149	0		2.0	U	
4	Fluoranthene				202	0		1.0	U	
5	Pyrene				202	0		1.0	U	
5	Butyl Benzyl Phthalate				149	0d		1.6	U	
5	Benz(a)anthracene				228	0		1.5	U	
5	3,3'-Dichlorobenzidine				252	0		3.5	U	
5	Chrysene				228	0		1.5	U	
5	Bis(2-ethylhexyl) Phthalate	15.78	0.04	0.00	149	3927	0.4600	1.0	U	
6	Di-n-octyl Phthalate				149	0		1.3	U	
6	Benzo(b)fluoranthene				252	0		1.7	U	
6	Benzo(k)fluoranthene				252	0		1.9	U	
6	Benzo(a)pyrene				252	0		1.8	U	
6	Indeno(1,2,3-cd)pyrene				276	0		3.8	U	
6	Dibenz(a,h)anthracene				278	0		3.4	U	
6	Benzo(g,h,i)perylene				276	0		4.1	U	

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060570.D Vial: 12
Acq On : 24 Apr 2006 6:36 pm Operator: SC
Sample : L0600578-005 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1000;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 08:19:16 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E. 4/25/06

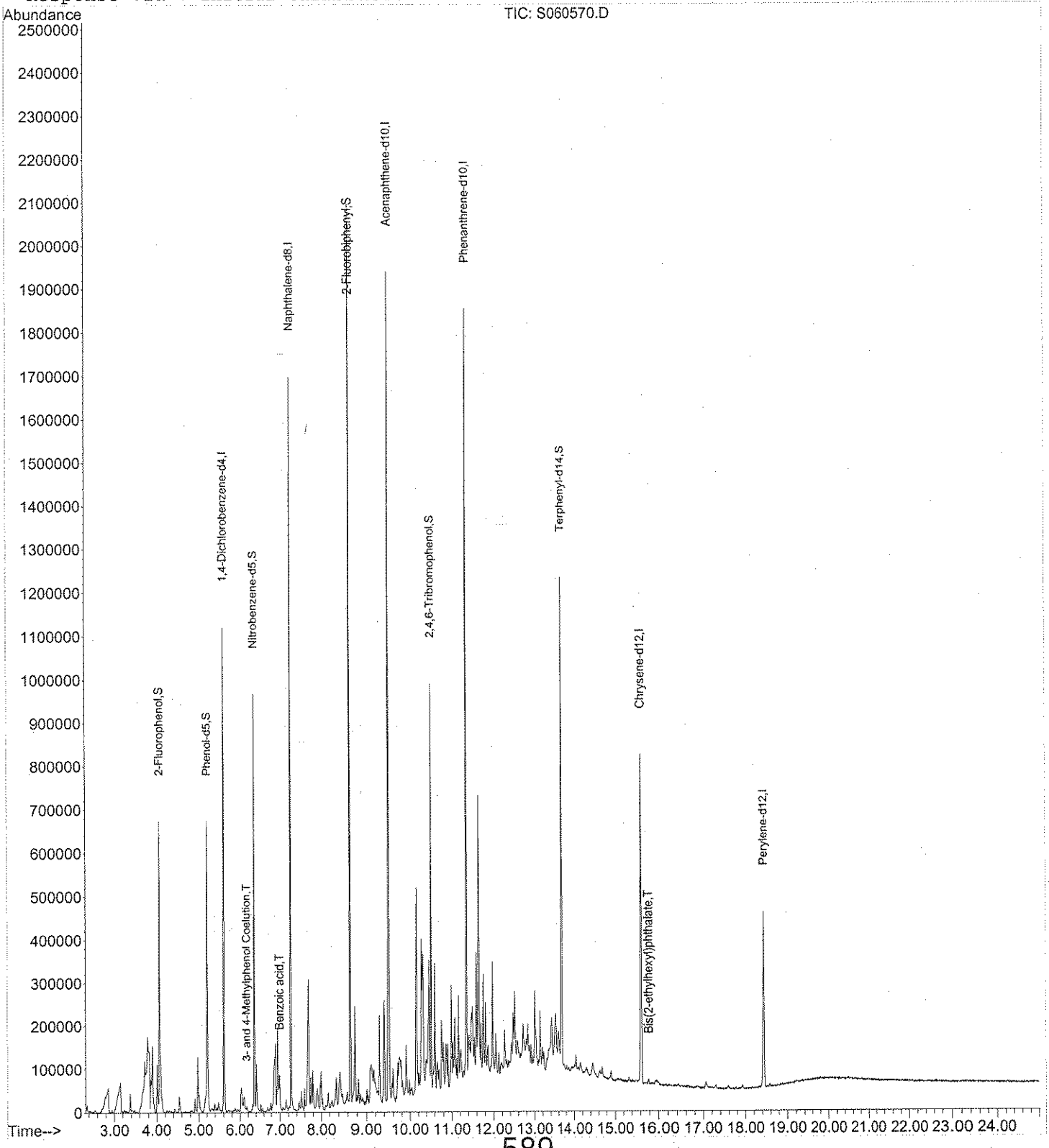
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	202070	40.00	mg/L	-0.01
22) Naphthalene-d8	7.26	136	798531	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.52	164	442285	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	734642	40.00	mg/L	0.00
70) Chrysene-d12	15.62	240	438886	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	244760	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	257039	42.43	mg/L	-0.01
Spiked Amount 50.000			Recovery =	84.86%		
7) Phenol-d5	5.21	99	325699	41.95	mg/L	-0.01
Spiked Amount 50.000			Recovery =	83.90%		
23) Nitrobenzene-d5	6.36	82	362992	50.78	mg/L	-0.01
Spiked Amount 50.000			Recovery =	101.56%		
41) 2-Fluorobiphenyl	8.66	172	636763	47.50	mg/L	0.00
Spiked Amount 50.000			Recovery =	95.00%		
61) 2,4,6-Tribromophenol	10.51	330	117710	52.24	mg/L	0.00
Spiked Amount 50.000			Recovery =	104.48%		
73) Terphenyl-d14	13.69	244	461586	46.05	mg/L	0.00
Spiked Amount 50.000			Recovery =	92.10%		
Target Compounds						Qvalue
21) 3- and 4-Methylphenol Coel	6.17	107	2094	0.54	mg/L #	85
31) Benzoic acid	7.00	122	8273	4.67	mg/L #	85
78) Bis(2-ethylhexyl)phthalate	15.78	149	3927	0.46	mg/L #	77

(#) = qualifier out of range (m) = manual integration
S060570.D BA060422.M Tue Apr 25 08:22:36 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060570.D Vial: 12
Acq On : 24 Apr 2006 6:36 pm Operator: SC
Sample : L0600578-005 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1000;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:22 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060570.D Vial: 12
Acq.On : 24 Apr 2006 6:36 pm Operator: SC
Sample : L0600578-005 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1000;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 08:19:16 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

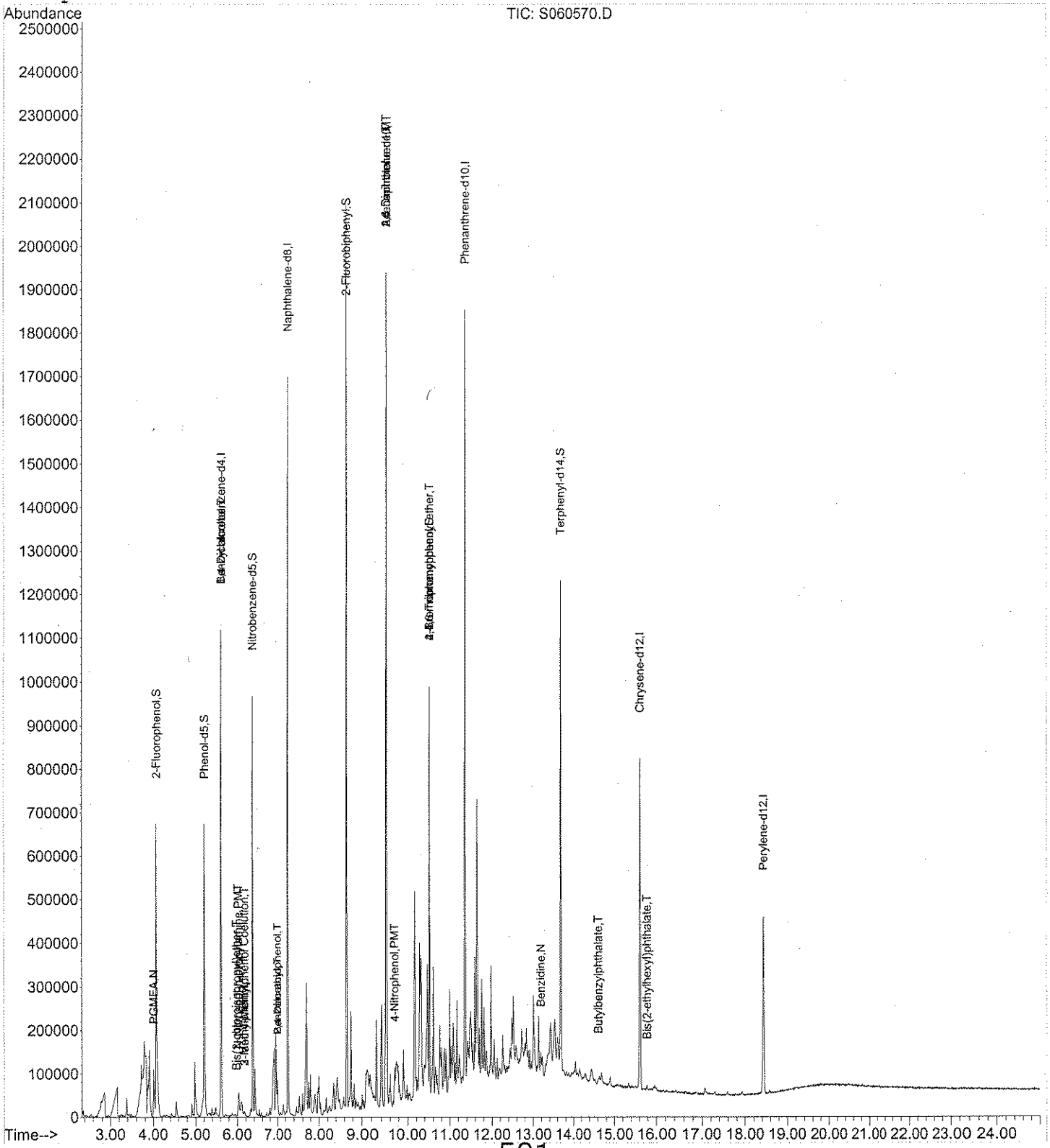
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	202070	40.00	mg/L	-0.01
22) Naphthalene-d8	7.26	136	798531	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.52	164	442285	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	734642	40.00	mg/L	0.00
70) Chrysene-d12	15.62	240	438886	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	244760	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	257039	42.43	mg/L	-0.01
Spiked Amount 50.000			Recovery =	84.86%		
7) Phenol-d5	5.21	99	325699	41.95	mg/L	-0.01
Spiked Amount 50.000			Recovery =	83.90%		
23) Nitrobenzene-d5	6.36	82	362992	50.78	mg/L	-0.01
Spiked Amount 50.000			Recovery =	101.56%		
41) 2-Fluorobiphenyl	8.66	172	636763	47.50	mg/L	0.00
Spiked Amount 50.000			Recovery =	95.00%		
61) 2,4,6-Tribromophenol	10.51	330	117710	52.24	mg/L	0.00
Spiked Amount 50.000			Recovery =	104.48%		
73) Terphenyl-d14	13.69	244	461586	46.05	mg/L	0.00
Spiked Amount 50.000			Recovery =	92.10%		
Target Compounds						Qvalue
5) PGMEA	4.01	43	18363	4.65	mg/L #	71
14) Benzyl alcohol	5.62	108	899	0.24	mg/L #	1
17) 2-Methylphenol	6.17	108	1727	0.28	mg/L #	67
18) Bis(2-chloroisopropyl)ethe	5.98	45	612	0.39	mg/L #	58
19) N-Nitrosodi-n-propylamine	6.02	70	5312	0.98	mg/L #	35
21) 3- and 4-Methylphenol Coel	6.17	107	2094	0.54	mg/L #	85
27) 2,4-Dimethylphenol	7.00	122	8273	1.45	mg/L #	6
31) Benzoic acid	7.00	122	8273	4.67	mg/L #	85
46) 2,6-Dinitrotoluene	9.52	165	57387	18.05	mg/L #	24
51) 4-Nitrophenol	9.71	109	1975	1.16	mg/L #	1
52) 2,4-Dinitrotoluene	9.52	165	38057	9.97	mg/L #	23
62) 4-Bromophenyl phenyl ether	10.51	248	4968	1.22	mg/L #	1
71) Benzidine	13.19	184	666	2.78	mg/L #	1
74) Butylbenzylphthalate	14.61	149	617	1.99	mg/L #	1
78) Bis(2-ethylhexyl)phthalate	15.78	149	3927	0.46	mg/L #	77

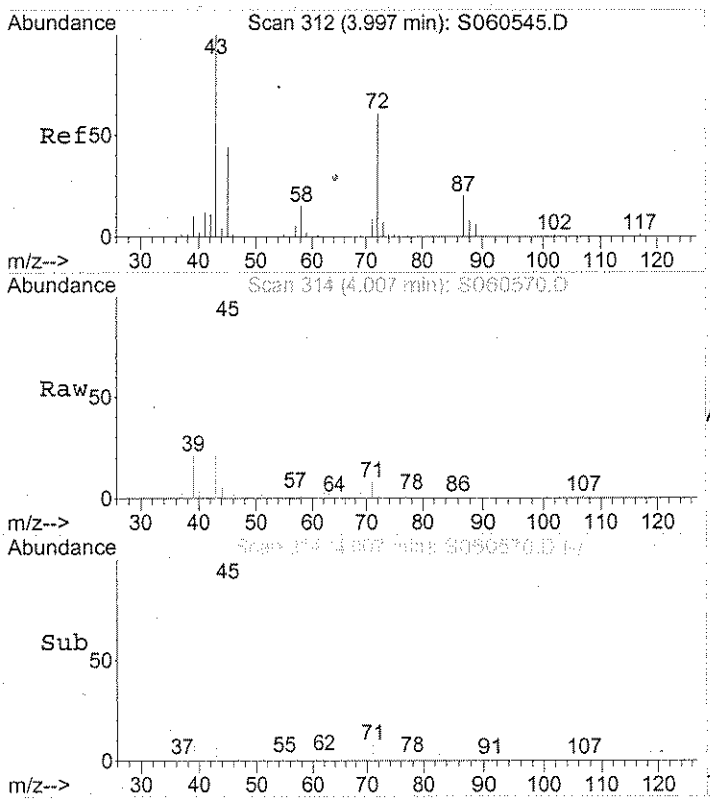
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060570.D Vial: 12
Acq On : 24 Apr 2006 6:36 pm Operator: SC
Sample : L0600578-005 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1000;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:19 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

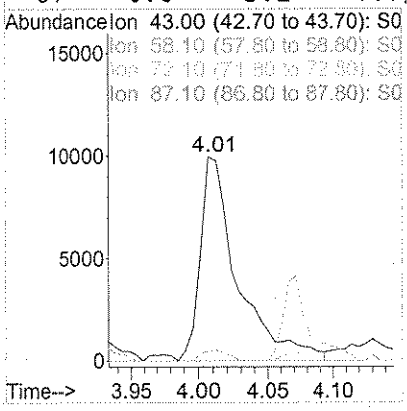


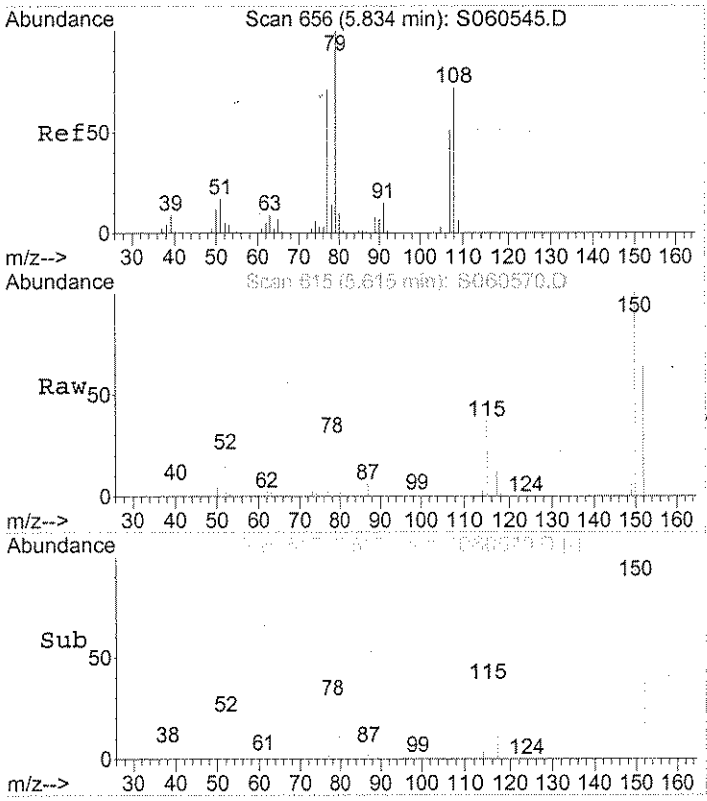


#5
PGMEA
Concen: 4.65 mg/L
RT: 4.01 min Scan# 314
Delta R.T. 0.01 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion: 43 Resp: 18363

Ion	Ratio	Lower	Upper
43	100		
58	3.9	8.0	12.0#
72	0.5	14.6	21.8#
87	0.0	5.1	7.7#

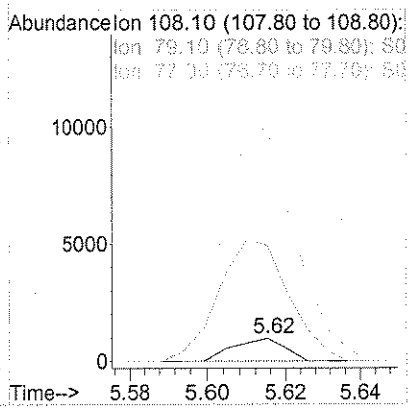


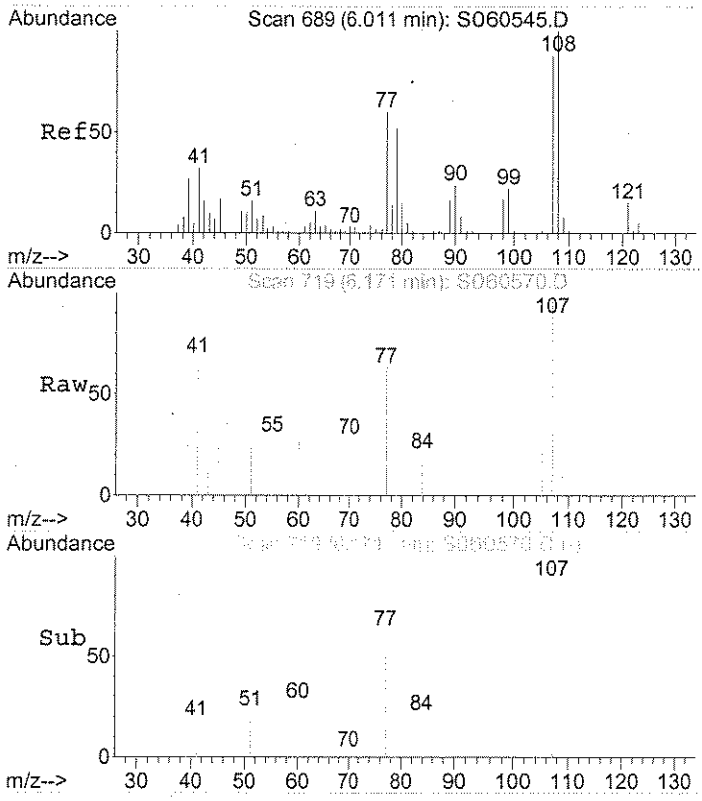


#14
Benzyl alcohol
Concen: 0.24 mg/L
RT: 5.62 min Scan# 615
Delta R.T. -0.22 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:108 Resp: 899

Ion	Ratio	Lower	Upper
108	100		
79	721.6	93.8	140.8#
77	1430.3	61.0	91.4#

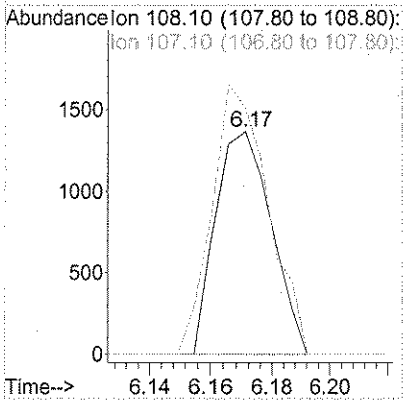


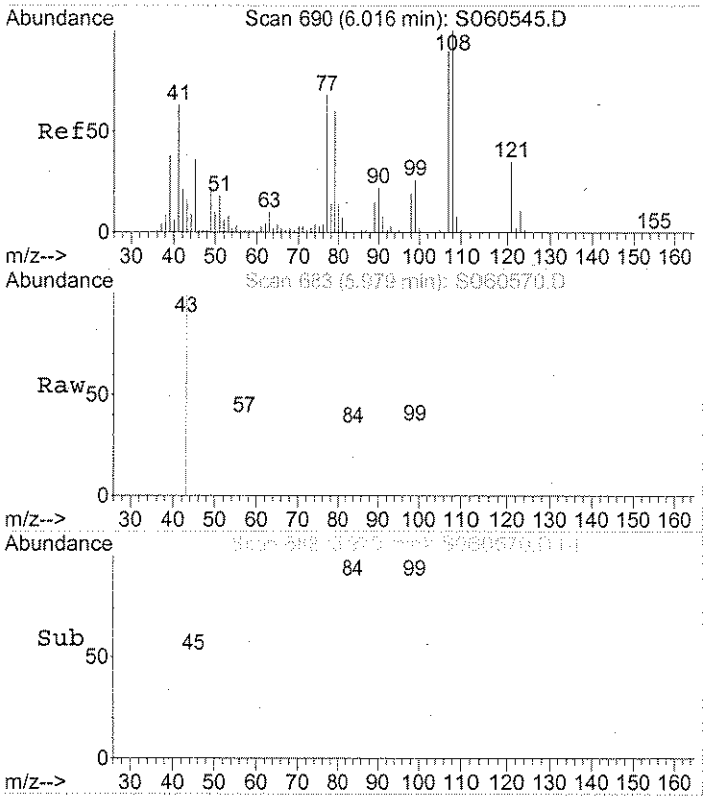


#17
2-Methylphenol
Concen: 0.28 mg/L
RT: 6.17 min Scan# 719
Delta R.T. 0.16 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:108 Resp: 1727

Ion	Ratio	Lower	Upper
108	100		
107	121.3	71.9	107.9#

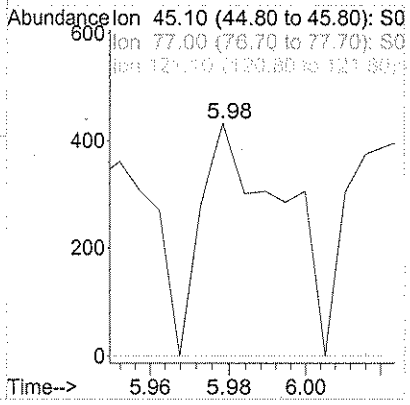


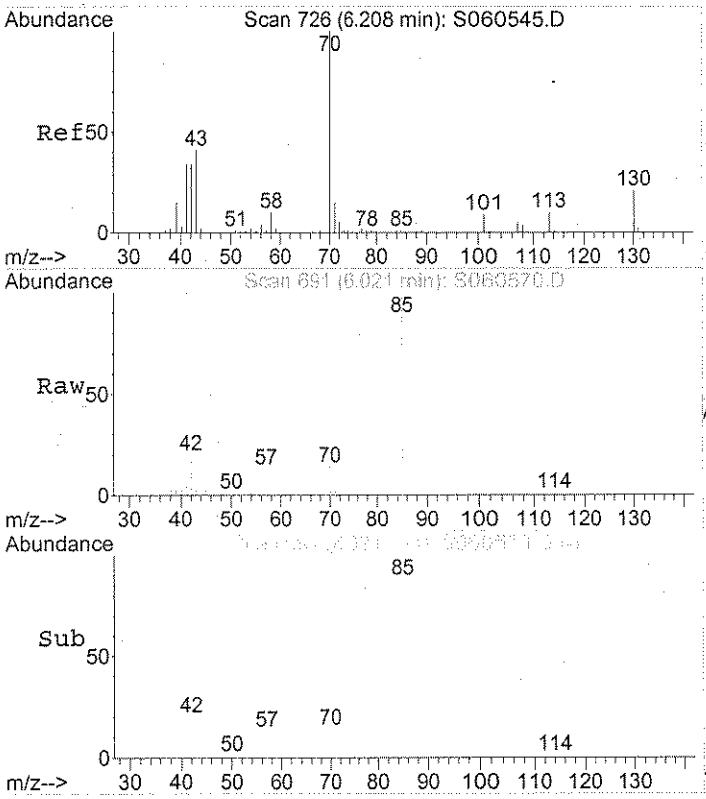


#18
Bis(2-chloroisopropyl)ether
Concen: 0.39 mg/L
RT: 5.98 min Scan# 683
Delta R.T. -0.04 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion: 45 Resp: 612

Ion	Ratio	Lower	Upper
45	100		
77	0.0	12.2	18.2#
121	0.0	17.4	26.0#

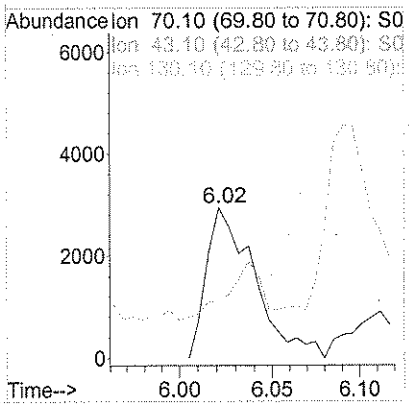


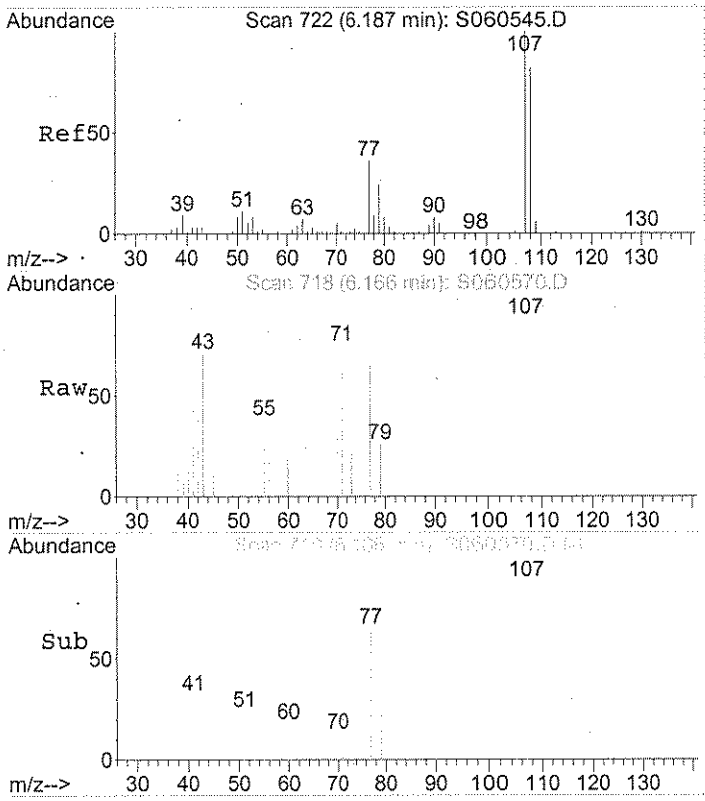


#19
N-Nitrosodi-n-propylamine
Concen: 0.98 mg/L
RT: 6.02 min Scan# 691
Delta R.T. -0.19 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion: 70 Resp: 5312

Ion	Ratio	Lower	Upper
70	100		
43	31.7	80.8	121.2#
130	0.0	19.1	28.7#

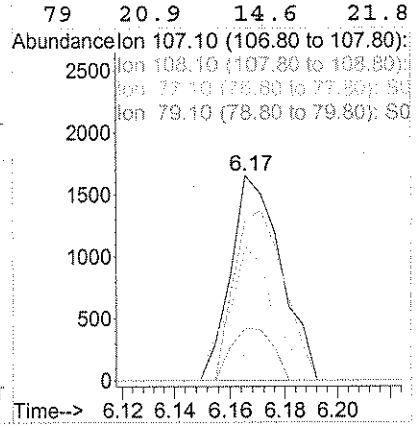


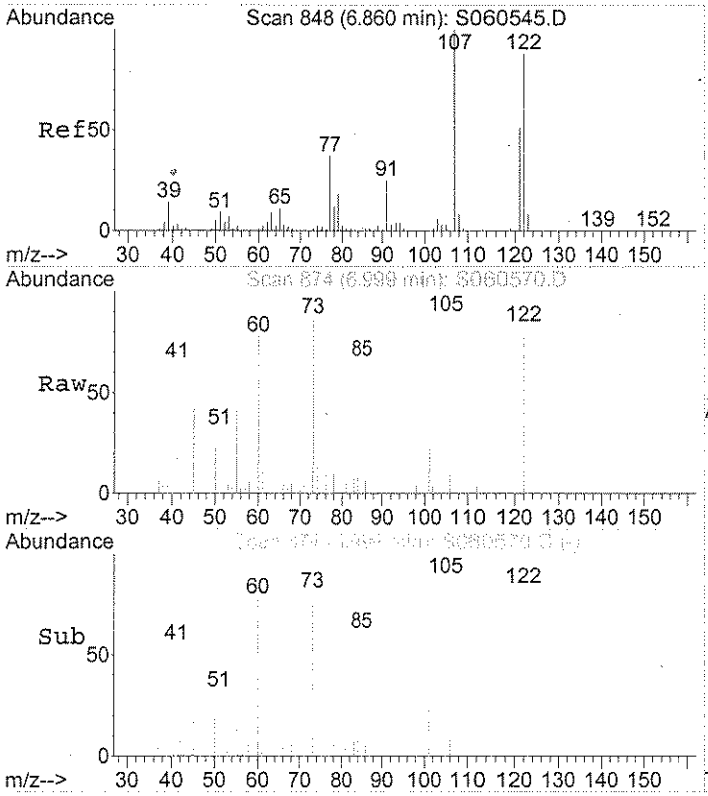


#21
3- and 4-Methylphenol Coelution
Concen: 0.54 mg/L
RT: 6.17 min Scan# 718
Delta R.T. -0.02 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:107 Resp: 2094

Ion	Ratio	Lower	Upper
107	100		
108	82.5	64.6	97.0
77	57.0	20.7	31.1#
79	20.9	14.6	21.8

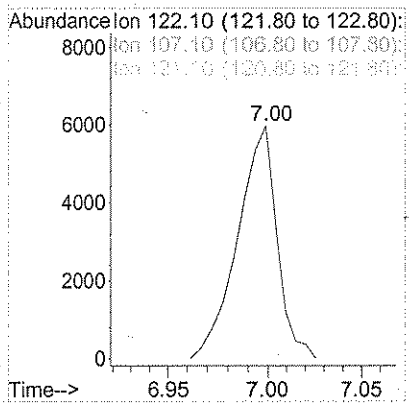


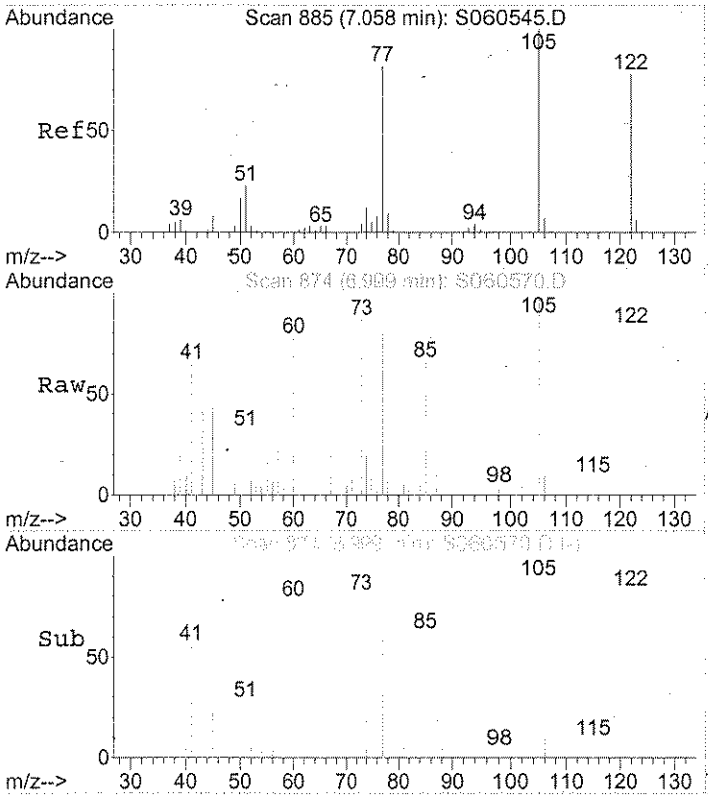


#27
2,4-Dimethylphenol
Concen: 1.45 mg/L
RT: 7.00 min Scan# 874
Delta R.T. 0.14 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:122 Resp: 8273

Ion	Ratio	Lower	Upper
122	100		
107	0.0	84.8	127.2#
121	0.0	46.1	69.1#

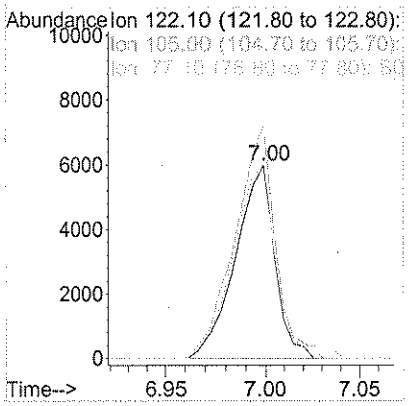


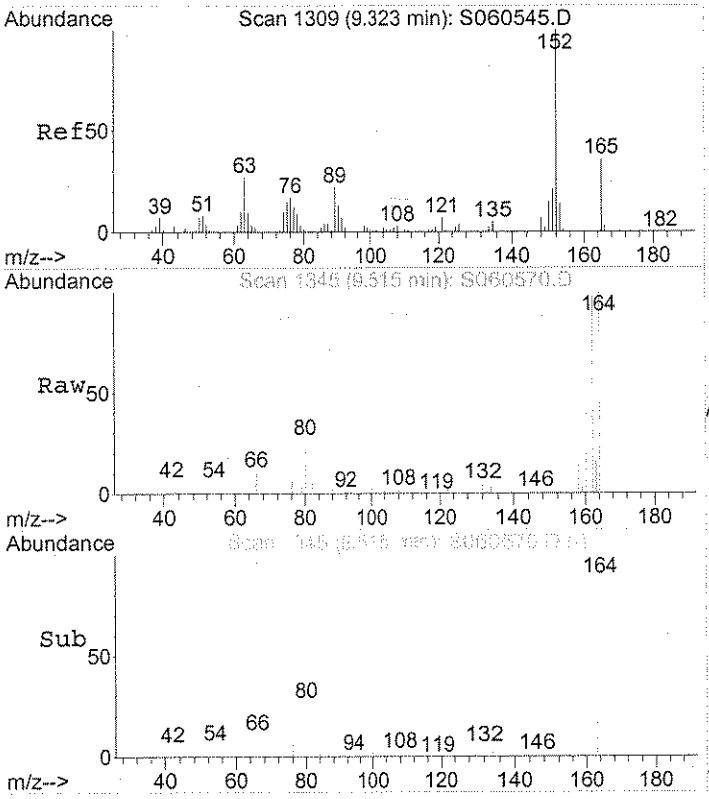


#31
Benzoic acid
Concen: 4.67 mg/L
RT: 7.00 min Scan# 874
Delta R.T. -0.06 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:122 Resp: 8273

Ion	Ratio	Lower	Upper
122	100		
105	123.8	93.8	140.6
77	110.5	67.5	101.3#

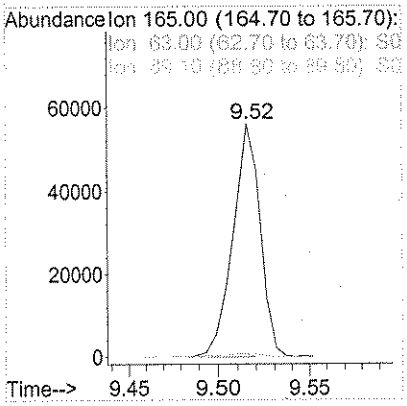


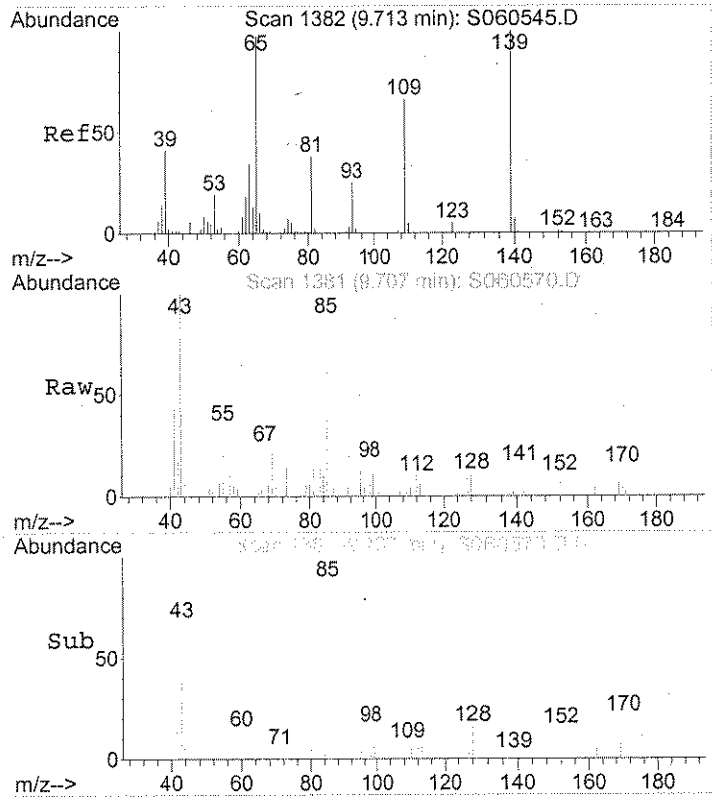


#46
2,6-Dinitrotoluene
Concen: 18.05 mg/L
RT: 9.52 min Scan# 1345
Delta R.T. 0.19 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:165 Resp: 57387

Ion	Ratio	Lower	Upper
165	100		
63	1.6	54.4	81.6#
89	2.3	36.9	55.3#

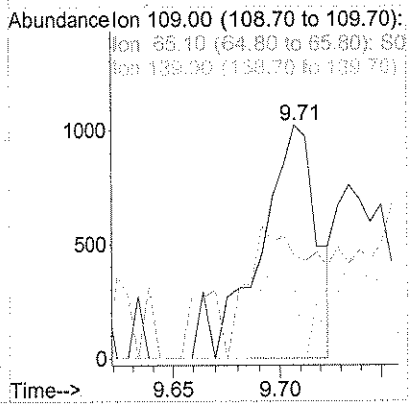


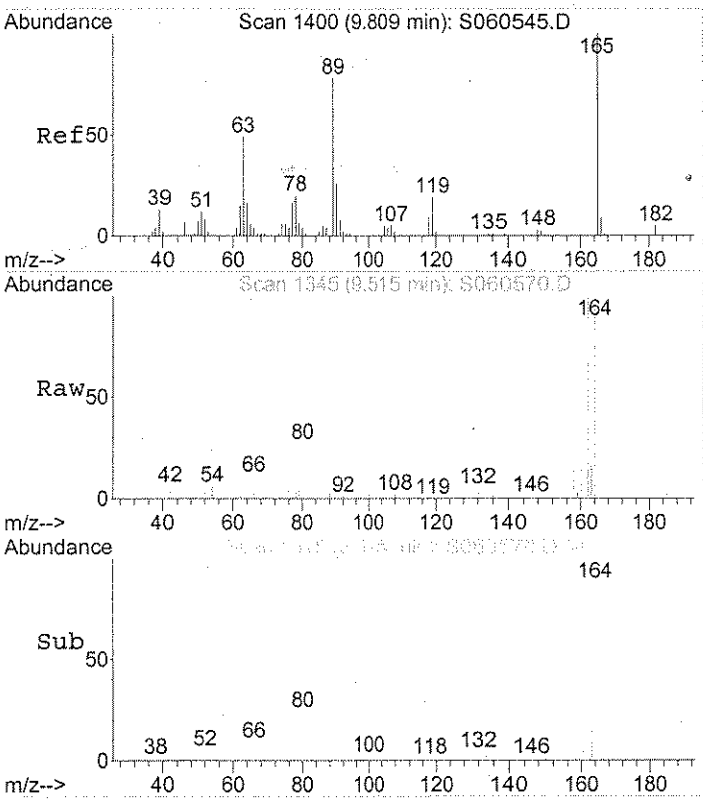


#51
4-Nitrophenol
Concen: 1.16 mg/L
RT: 9.71 min Scan# 1381
Delta R.T. -0.00 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:109 Resp: 1975

Ion	Ratio	Lower	Upper
109	100		
65	51.0	158.2	237.4#
139	21.4	178.5	267.7#

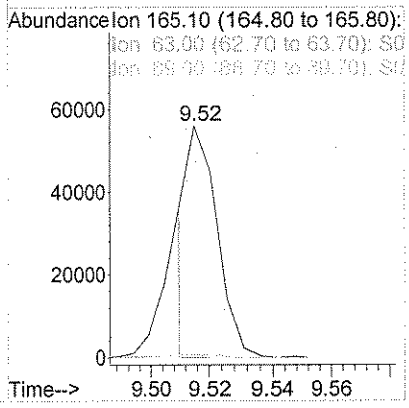


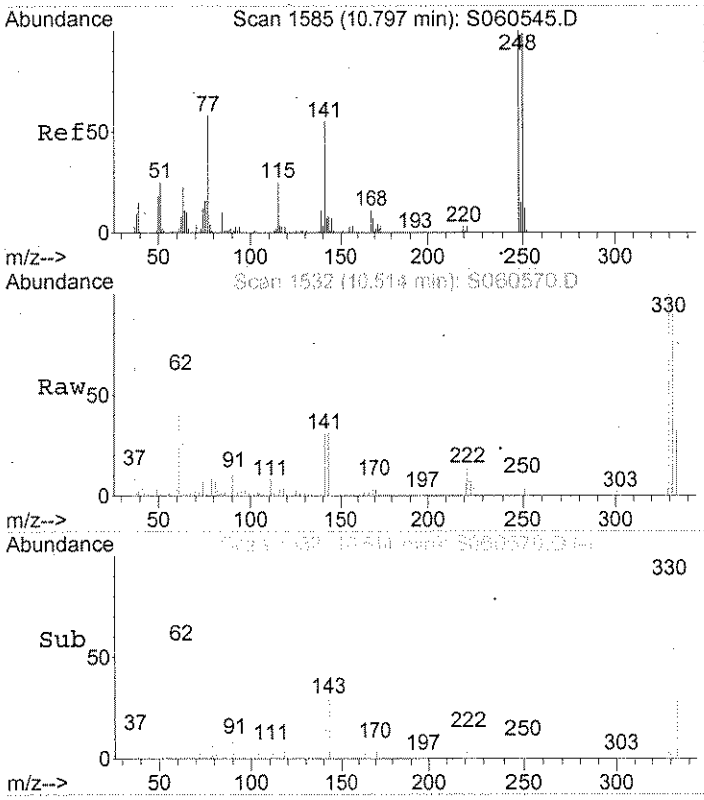


#52
2,4-Dinitrotoluene
Concen: 9.97 mg/L
RT: 9.52 min Scan# 1345
Delta R.T. -0.29 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:165 Resp: 38057

Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.7	52.1#
89	0.0	53.1	79.7#

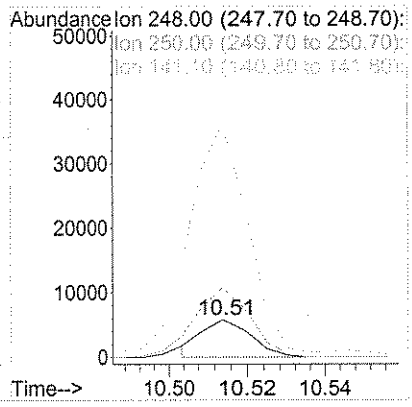


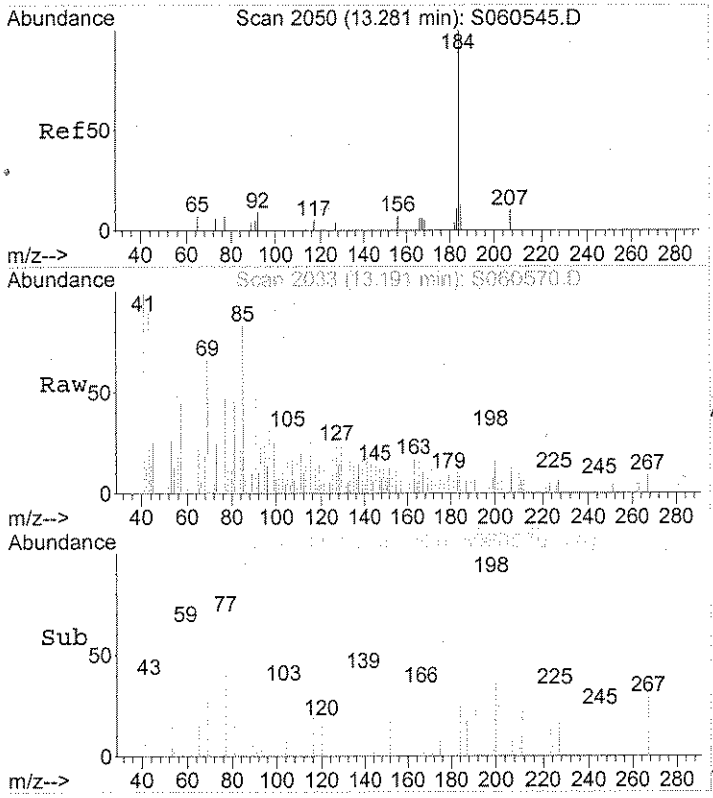


#62
4-Bromophenyl phenyl ether
Concen: 1.22 mg/L
RT: 10.51 min Scan# 1532
Delta R.T. -0.28 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:248 Resp: 4968

Ion	Ratio	Lower	Upper
248	100		
250	185.7	77.6	116.4#
141	625.6	49.4	74.0#

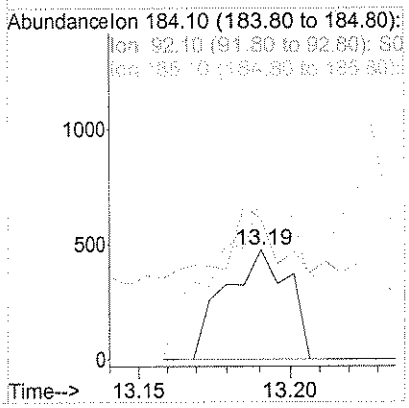


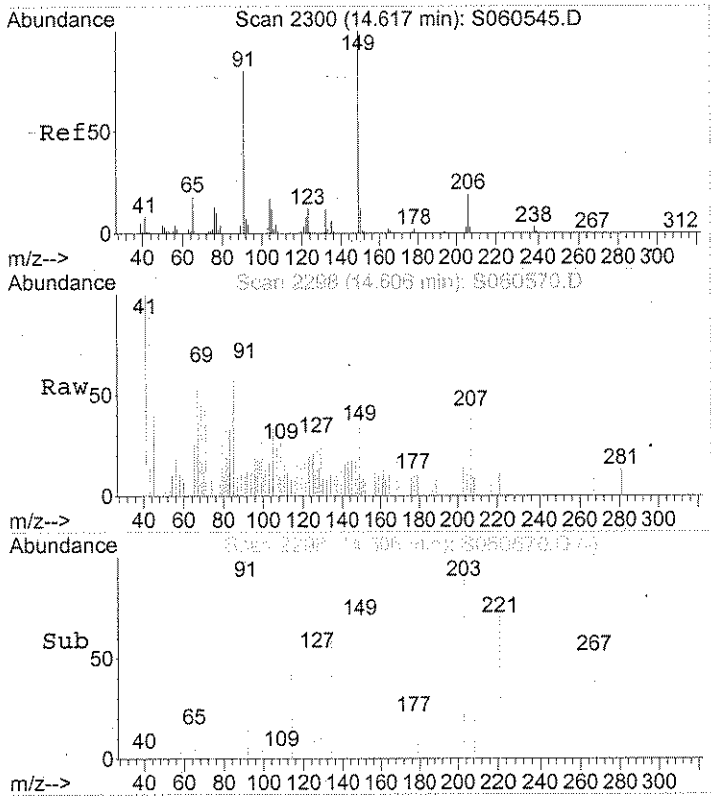


#71
Benzidine
Concen: 2.78 mg/L
RT: 13.19 min Scan# 2033
Delta R.T. -0.09 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:184 Resp: 666

Ion	Ratio	Lower	Upper
184	100		
92	76.6	11.2	16.8#
185	202.4	10.9	16.3#

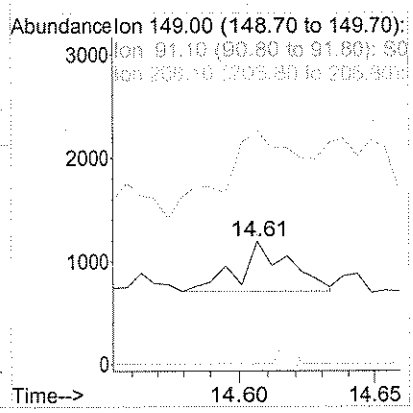


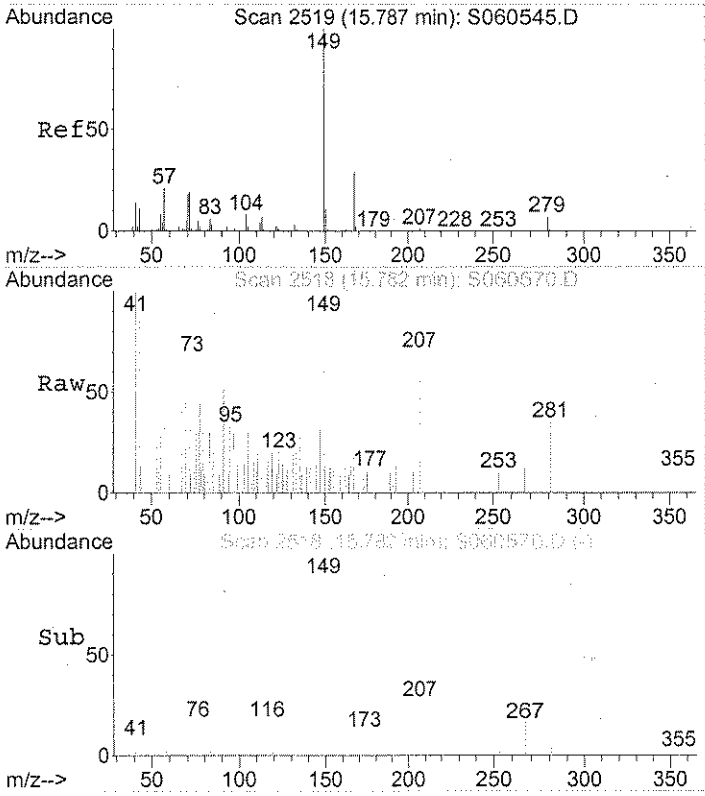


#74
Butylbenzylphthalate
Concen: 1.99 mg/L
RT: 14.61 min Scan# 2298
Delta R.T. -0.01 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:149 Resp: 617

Ion	Ratio	Lower	Upper
149	100		
91	266.5	56.8	85.2#
206	14.1	15.0	22.6#

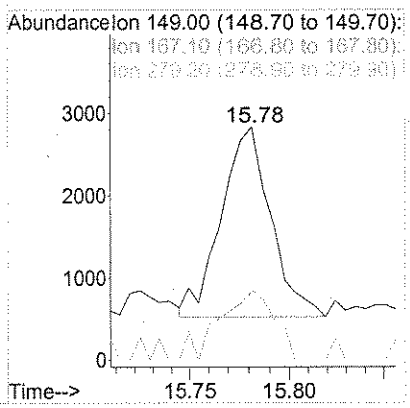




#78
Bis(2-ethylhexyl)phthalate
Concen: 0.46 mg/L
RT: 15.78 min Scan# 2518
Delta R.T. -0.00 min
Lab File: S060570.D
Acq: 24 Apr 2006 6:36 pm

Tgt Ion:149 Resp: 3927

Ion	Ratio	Lower	Upper
149	100		
167	40.9	22.6	33.8#
279	0.0	4.9	7.3#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	03/31/2006	**Receive Date:**	04/03/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	L0600578
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	73374	**Prep Date:**	04/06/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:	Base Neutral / Acid Semivolatile Organic Compounds	**Report List ID:**	LJ1260
Tune Ref:		**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060571.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 19:09	**Quant Date:**	04/25/2006 08:27	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-007			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.62	0.02?	152	178668	40.00	OK
2	Naphthalene-d8	7.26	0.02?	136	728627	40.00	OK
3	Acenaphthene-d10	9.51	0.02?	164	406577	40.00	OK
4	Phenanthrene-d10	11.36	0.02?	188	660120	40.00	OK
5	Chrysene-d12	15.62	0.03?	240	367441	40.00	OK
6	Perylene-d12	18.43	0.04?	264	157905	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.07	0.01	0.00	112	235203	43.92	88	45-101	OK	
1	Phenol-d5	5.21	0.02	0.00	99	291683	42.49	85	49-107	OK	
2	Nitrobenzene-d5	6.36	0.01	0.00	82	317422	48.66	97	58-105	OK	
3	2-Fluorobiphenyl	8.66	0.02	0.00	172	564364	45.80	92	50-101	OK	
4	2,4,6-Tribromophenol	10.51	0.02	0.00	330	103292	51.02	102	43-104	OK	
5	Terphenyl-d14	13.69	0.04	0.00	244	346663	41.31	83	34-120	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.52	U	
1	N-Nitrosodimethylamine				42	0d		2.9	U	
1	Pyridine				79	0		3.0	U	
1	Aniline				93	0		3.1	U	
1	Phenol				94	0d		1.1	U	
1	Bis(2-chloroethyl) Ether				93	0		1.1	U	
1	2-Chlorophenol				128	0		1.1	U	
1	1,3-Dichlorobenzene				146	0		1.1	U	
1	1,4-Dichlorobenzene				146	0		1.1	U	
1	Benzyl alcohol				108	0d		1.1	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060571.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 19:09	**Quant Date:**	04/25/2006 08:27	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-007			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		1.1	U	
1	2-Methylphenol				108	0d		1.1	U	
1	Bis(2-chloroisopropyl) Ether				45	0d		1.1	U	
1	N-Nitrosodi-n-propylamine				70	0d		1.1	U	
1	Hexachloroethane				117	0		4.1	U	
1	3- and 4-Methylphenol Coelutio	6.17	0.01	0.00	107	30039	8.75	8.9	J	
2	Nitrobenzene				77	0		1.1	U	
2	Isophorone				82	0		1.1	U	
2	2-Nitrophenol				139	0		1.1	U	
2	2,4-Dimethylphenol				122	0d		2.1	U	
2	bis(2-Chloroethoxy)methane				93	0		1.1	U	
2	2,4-Dichlorophenol				162	0		1.1	U	
2	1,2,4-Trichlorobenzene				180	0		1.6	U	
2	Benzoic acid	6.96	-0.05	-0.01	122	6144	4.33	4.4	J	
2	Naphthalene				128	0		1.1	U	
2	4-Chloroaniline				127	0		1.8	U	
2	Hexachlorobutadiene				225	0		1.7	U	
2	4-Chloro-3-methylphenol				107	0		1.1	U	
2	2-Methylnaphthalene				142	0		1.1	U	
3	Hexachlorocyclopentadiene				237	0		1.1	U	
3	2,4,6-Trichlorophenol				196	0		2.3	U	
3	2,4,5-Trichlorophenol				196	0		2.3	U	
3	2-Chloronaphthalene				162	0		1.1	U	
3	2-Nitroaniline				65	0		1.1	U	
3	Dimethyl Phthalate				163	0		1.1	U	
3	Acenaphthylene				152	0		1.1	U	
3	2,6-Dinitrotoluene				165	0d		1.9	U	
3	3-Nitroaniline				138	0		1.6	U	
3	Acenaphthene				154	0		1.1	U	
3	2,4-Dinitrophenol				184	0		1.6	U	
3	Dibenzofuran				168	0		1.1	U	
3	4-Nitrophenol				109	0d		1.8	U	
3	2,4-Dinitrotoluene				165	0d		1.1	U	
3	Fluorene				166	0		1.1	U	
3	Diethyl Phthalate				149	0		6.8	U	
3	4-Chlorophenyl Phenyl Ether				204	0		1.1	U	
3	4-Nitroaniline				138	0		2.0	U	
4	2-Methyl-4,6-dinitrophenol				198	0		1.6	U	
4	N-Nitrosodiphenylamine				169	0d		1.1	U	
4	4-Bromophenyl Phenyl Ether				248	0d		2.1	U	
4	Hexachlorobenzene				284	0		1.1	U	
4	Pentachlorophenol				266	0		1.5	U	
4	Phenanthrene				178	0		1.1	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060571.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 19:09	**Quant Date:**	04/25/2006 08:27	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-007			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units;** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		1.1	U	
4	Di-n-butyl Phthalate	12.16	0.02	0.00	149	3792	0.2000	2.1	U	
4	Fluoranthene				202	0		1.1	U	
5	Pyrene				202	0		1.1	U	
5	Butyl Benzyl Phthalate				149	0**d**		1.7	U	
5	Benz(a)anthracene				228	0		1.6	U	
5	3,3'-Dichlorobenzidine				252	0		3.6	U	
5	Chrysene				228	0		1.6	U	
5	Bis(2-ethylhexyl) Phthalate	15.78	0.04	0.00	149	4877	0.6900	1.1	U	
6	Di-n-octyl Phthalate				149	0		1.4	U	
6	Benzo(b)fluoranthene				252	0		1.8	U	
6	Benzo(k)fluoranthene				252	0		2.0	U	
6	Benzo(a)pyrene				252	0		1.9	U	
6	Indeno(1,2,3-cd)pyrene				276	0		3.9	U	
6	Dibenz(a,h)anthracene				278	0		3.5	U	
6	Benzo(g,h,i)perylene				276	0		4.2	U	

Prep Amount:	980 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060571.D Vial: 13
Acq On : 24 Apr 2006 7:09 pm Operator: SC
Sample : L0600578-007 Inst : MSS
Misc : ;06-04-06;06-APR-2006;980;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 08:25:34 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

4/25/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	178668	40.00	mg/L	0.00
22) Naphthalene-d8	7.26	136	728627	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.51	164	406577	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	660120	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	367441	40.00	mg/L	-0.01
80) Perylene-d12	18.43	264	157905	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	235203	43.92	mg/L	-0.01
Spiked Amount 50.000			Recovery =	87.84%		
7) Phenol-d5	5.21	99	291683	42.49	mg/L	-0.01
Spiked Amount 50.000			Recovery =	84.98%		
23) Nitrobenzene-d5	6.36	82	317422	48.66	mg/L	-0.01
Spiked Amount 50.000			Recovery =	97.32%		
41) 2-Fluorobiphenyl	8.66	172	564364	45.80	mg/L	0.00
Spiked Amount 50.000			Recovery =	91.60%		
61) 2,4,6-Tribromophenol	10.51	330	103292	51.02	mg/L	0.00
Spiked Amount 50.000			Recovery =	102.04%		
73) Terphenyl-d14	13.69	244	346663	41.31	mg/L	0.00
Spiked Amount 50.000			Recovery =	82.62%		
Target Compounds						Qvalue
21) 3- and 4-Methylphenol Coel	6.17	107	30039	8.75	mg/L #	92
31) Benzoic acid	6.96	122	6144	4.33	mg/L #	79
68) Di-n-butylphthalate	12.16	149	3792	0.20	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	15.78	149	4877	0.69	mg/L #	85

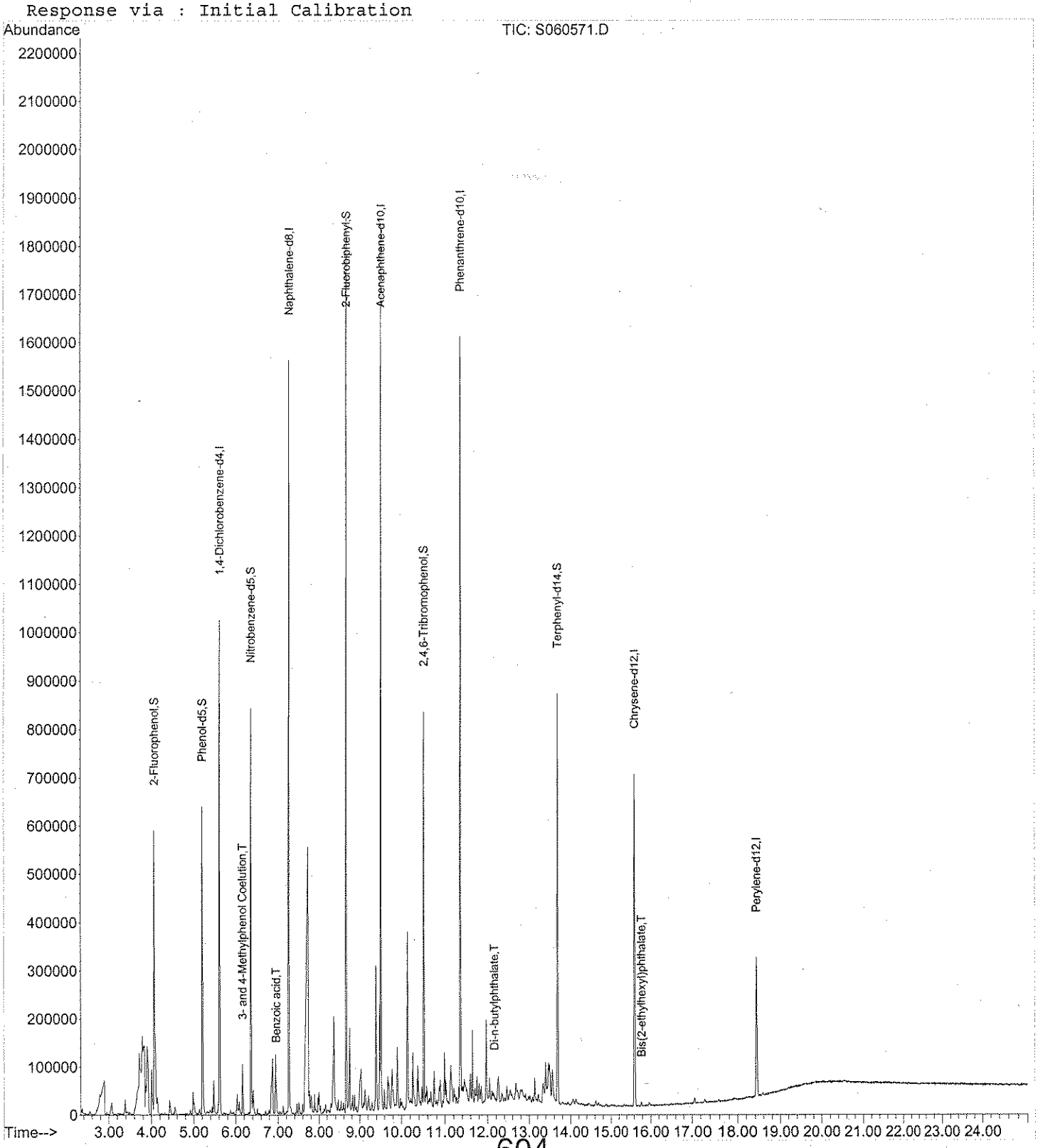
DA 4/27/06

(#) = qualifier out of range (m) = manual integration
S060571.D BA060422.M Tue Apr 25 08:27:37 2006 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060571.D Vial: 13
Acq On : 24 Apr 2006 7:09 pm Operator: SC
Sample : L0600578-007 Inst : MSS
Misc : ;06-04-06;06-APR-2006;980;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:27 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060571.D Vial: 13
Acq On : 24 Apr 2006 7:09 pm Operator: SC
Sample : L0600578-007 Inst : MSS
Misc : ;06-04-06;06-APR-2006;980;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 08:25:34 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

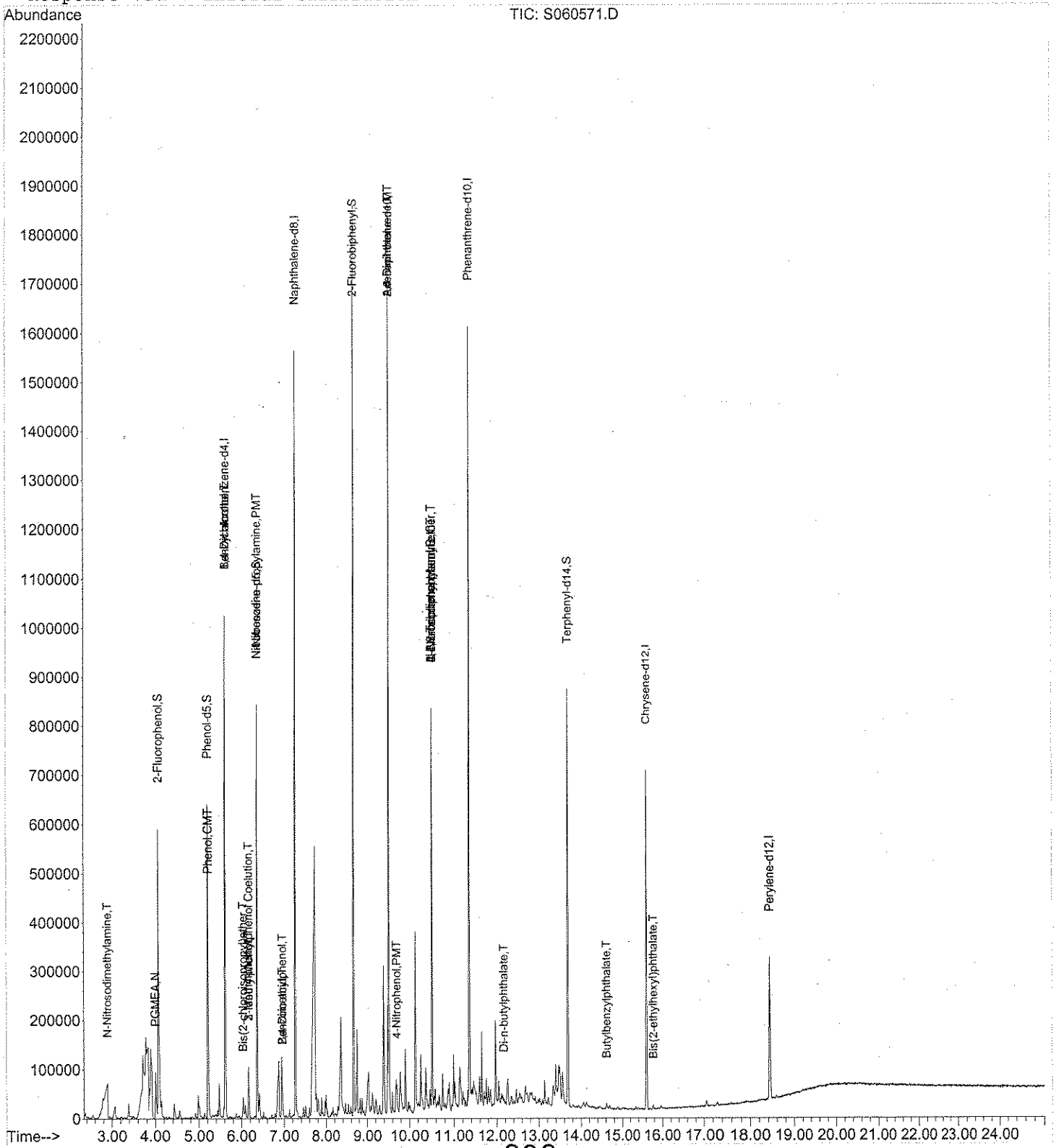
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	178668	40.00	mg/L	0.00
22) Naphthalene-d8	7.26	136	728627	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.51	164	406577	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	660120	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	367441	40.00	mg/L	-0.01
80) Perylene-d12	18.43	264	157905	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	235203	43.92	mg/L	-0.01
Spiked Amount 50.000			Recovery =	87.84%		
7) Phenol-d5	5.21	99	291683	42.49	mg/L	-0.01
Spiked Amount 50.000			Recovery =	84.98%		
23) Nitrobenzene-d5	6.36	82	317422	48.66	mg/L	-0.01
Spiked Amount 50.000			Recovery =	97.32%		
41) 2-Fluorobiphenyl	8.66	172	564364	45.80	mg/L	0.00
Spiked Amount 50.000			Recovery =	91.60%		
61) 2,4,6-Tribromophenol	10.51	330	103292	51.02	mg/L	0.00
Spiked Amount 50.000			Recovery =	102.04%		
73) Terphenyl-d14	13.69	244	346663	41.31	mg/L	0.00
Spiked Amount 50.000			Recovery =	82.62%		
Target Compounds						Qvalue
3) N-Nitrosodimethylamine	2.90	42	17460	7.25	mg/L #	1
5) PGMEA	4.01	43	14352	4.11	mg/L #	70
9) Phenol	5.22	94	7151	0.94	mg/L #	1
14) Benzyl alcohol	5.62	108	976	0.29	mg/L #	1
17) 2-Methylphenol	6.17	108	23578	4.30	mg/L #	60
18) Bis(2-chloroisopropyl)ethe	6.04	45	595	0.43	mg/L #	58
19) N-Nitrosodi-n-propylamine	6.36	70	47143	9.84	mg/L #	13
21) 3- and 4-Methylphenol Coel	6.17	107	30039	8.75	mg/L #	92
27) 2,4-Dimethylphenol	6.96	122	6144	1.18	mg/L #	6
31) Benzoic acid	6.96	122	6144	4.33	mg/L #	79
46) 2,6-Dinitrotoluene	9.51	165	53338	18.25	mg/L #	23
51) 4-Nitrophenol	9.71	109	704	0.45	mg/L #	1
52) 2,4-Dinitrotoluene	9.51	165	34561	9.85	mg/L #	23
59) N-Nitrosodiphenylamine	10.51	169	3025	0.38	mg/L #	33
62) 4-Bromophenyl phenyl ether	10.51	248	4656	1.27	mg/L #	1
68) Di-n-butylphthalate	12.16	149	3792	0.20	mg/L #	97
74) Butylbenzylphthalate	14.61	149	1833	2.21	mg/L #	42
78) Bis(2-ethylhexyl)phthalate	15.78	149	4877	0.69	mg/L #	85

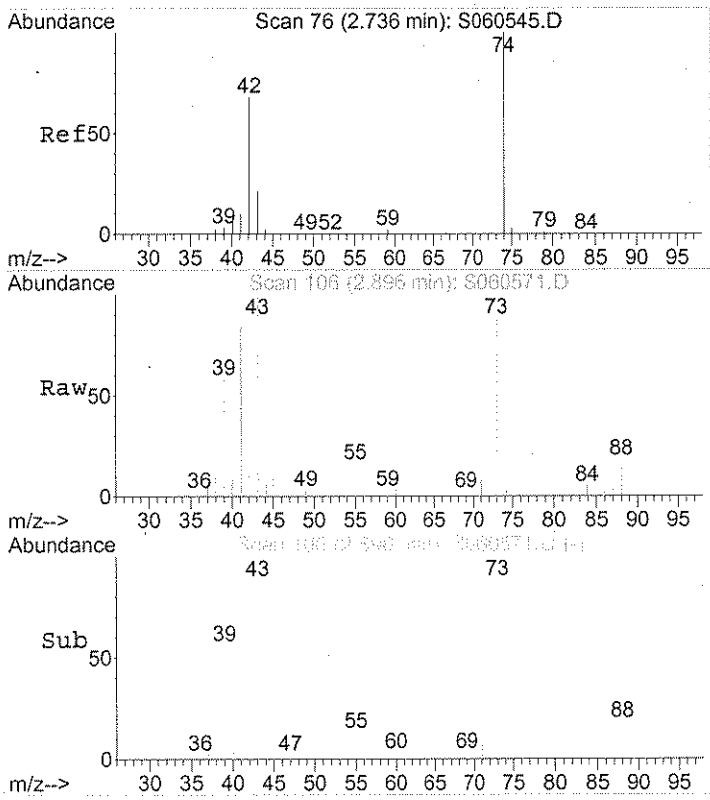
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060571.D Vial: 13
Acq On : 24 Apr 2006 7:09 pm Operator: SC
Sample : L0600578-007 Inst : MSS
Misc : ;06-04-06;06-APR-2006;980;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:25 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

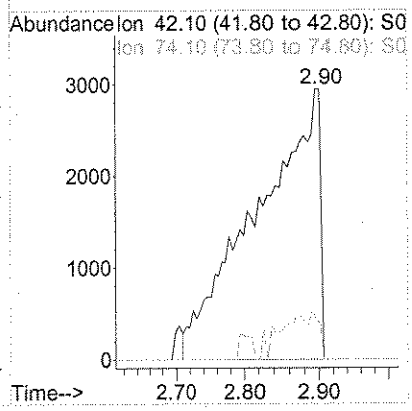


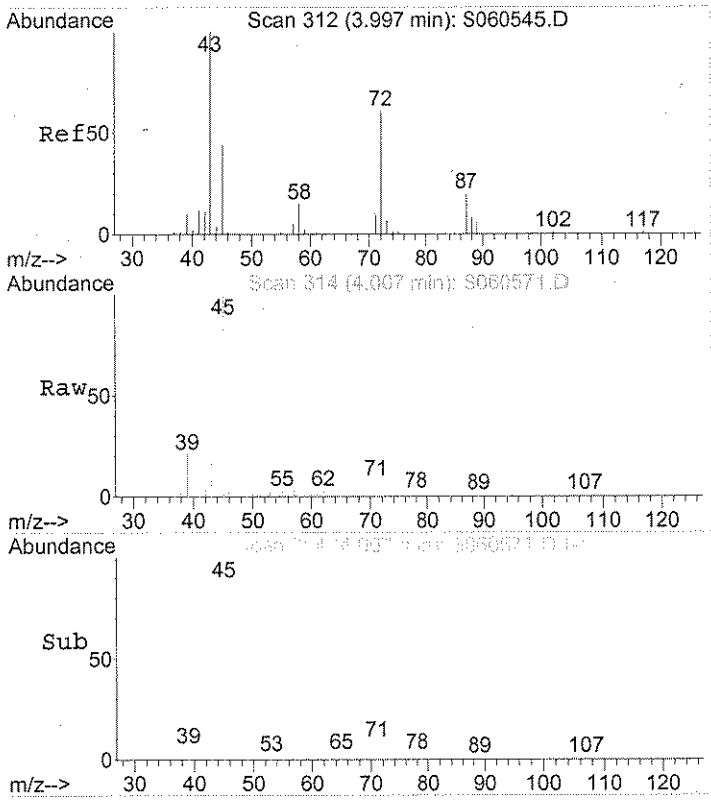


#3
N-Nitrosodimethylamine
Concen: 7.25 mg/L
RT: 2.90 min Scan# 106
Delta R.T. 0.16 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion: 42 Resp: 17460

Ion	Ratio	Lower	Upper
42	100		
74	7.6	92.4	138.6#

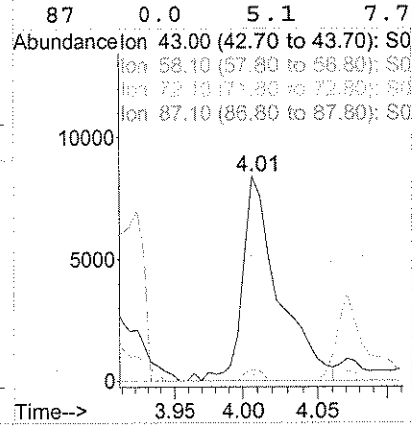


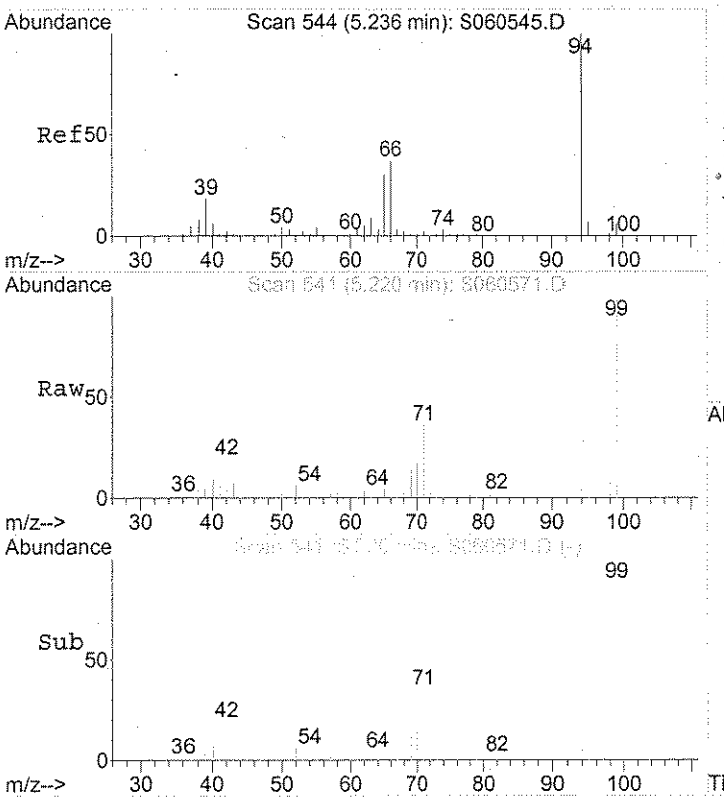


#5
PGMEA
Concen: 4.11 mg/L
RT: 4.01 min Scan# 314
Delta R.T. 0.01 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion: 43 Resp: 14352

Ion	Ratio	Lower	Upper
43	100		
58	2.6	8.0	12.0#
72	0.6	14.6	21.8#
87	0.0	5.1	7.7#

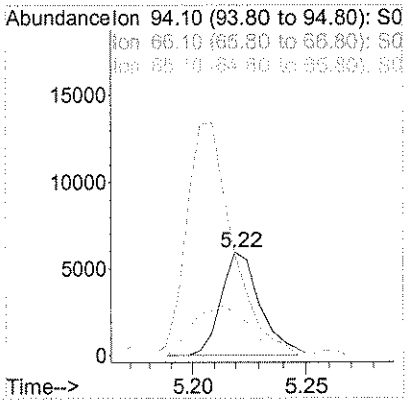


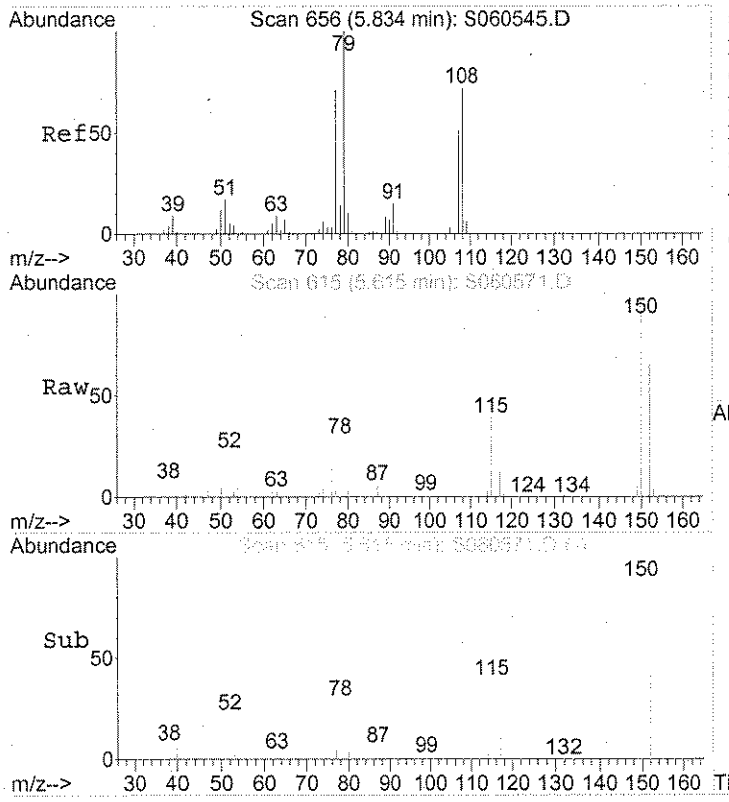


#9
Phenol
Concen: 0.94 mg/L
RT: 5.22 min Scan# 541
Delta R.T. -0.02 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion: 94 Resp: 7151

Ion	Ratio	Lower	Upper
94	100		
66	278.8	22.5	33.7#
65	73.7	20.7	31.1#

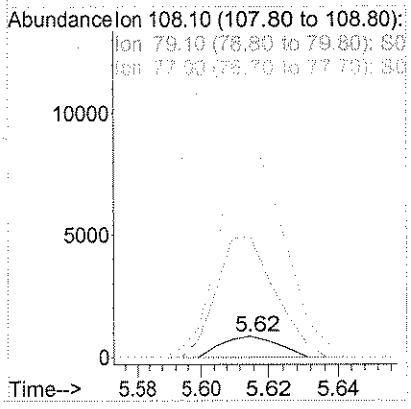


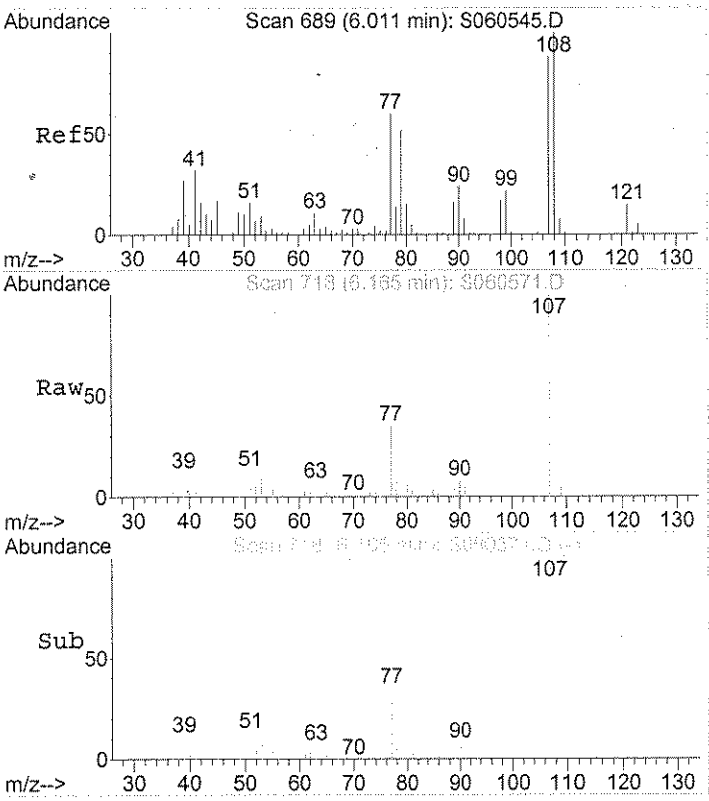


#14
Benzyl alcohol
Concen: 0.29 mg/L
RT: 5.62 min Scan# 615
Delta R.T. -0.22 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:108 Resp: 976

Ion	Ratio	Lower	Upper
108	100		
79	600.3	93.8	140.8#
77	1196.2	61.0	91.4#

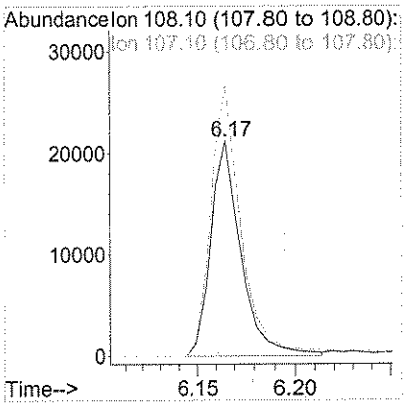


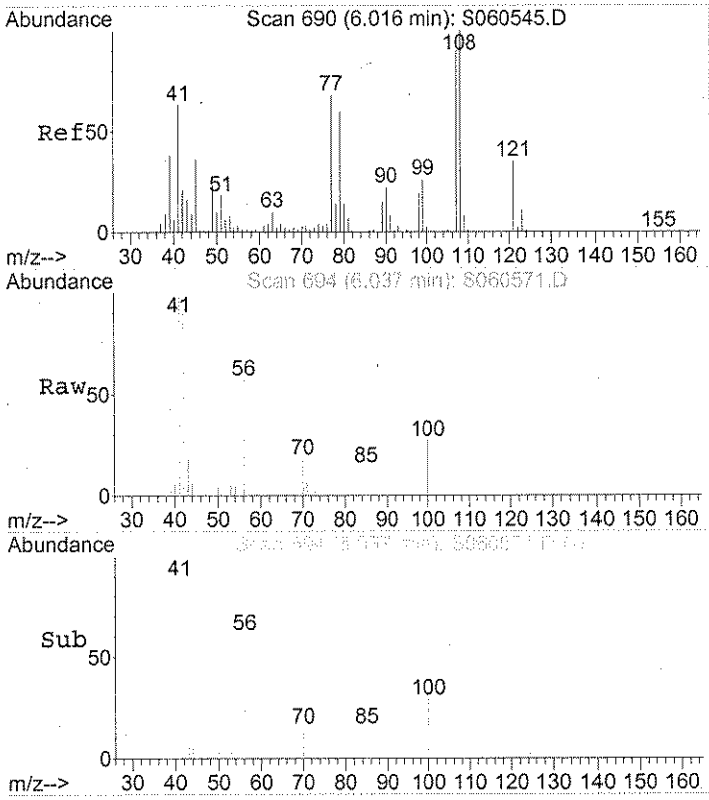


#17
2-Methylphenol
Concen: 4.30 mg/L
RT: 6.17 min Scan# 718
Delta R.T. 0.16 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:108 Resp: 23578

Ion	Ratio	Lower	Upper
108	100		
107	127.4	71.9	107.9#

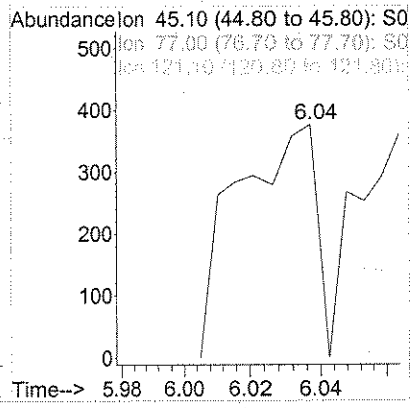


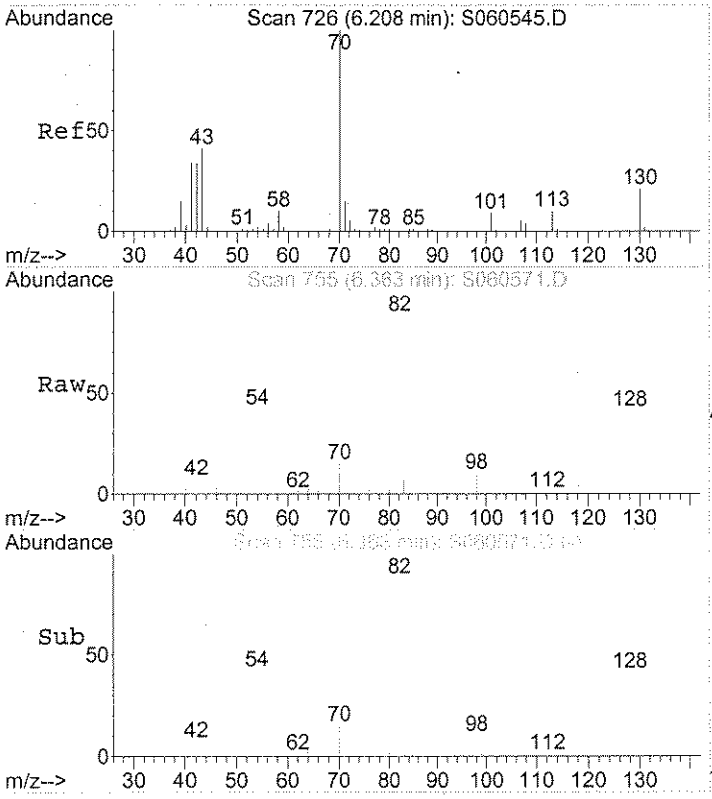


#18
Bis(2-chloroisopropyl)ether
Concen: 0.43 mg/L
RT: 6.04 min Scan# 694
Delta R.T. 0.02 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion: 45 Resp: 595

Ion	Ratio	Lower	Upper
45	100		
77	0.0	12.2	18.2#
121	0.0	17.4	26.0#

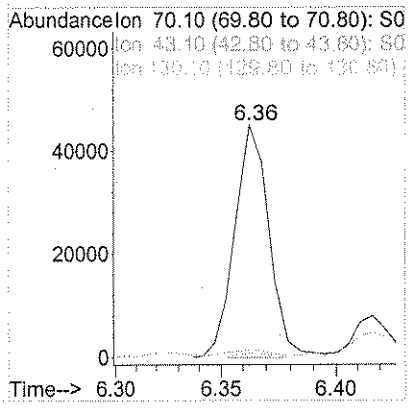


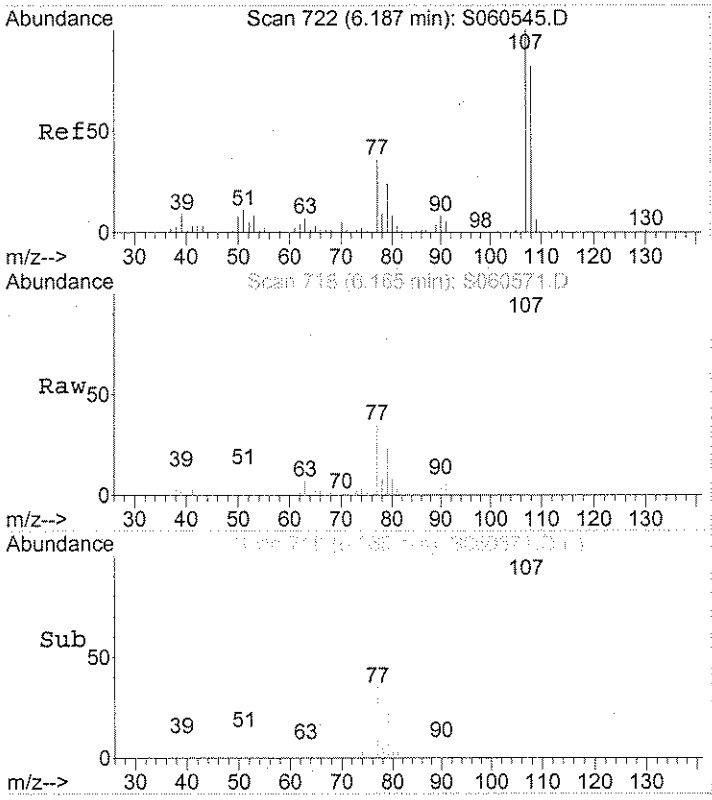


#19
N-Nitrosodi-n-propylamine
Concen: 9.84 mg/L
RT: 6.36 min Scan# 755
Delta R.T. 0.16 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion: 70 Resp: 47143

Ion	Ratio	Lower	Upper
70	100		
43	2.9	80.8	121.2#
130	1.6	19.1	28.7#

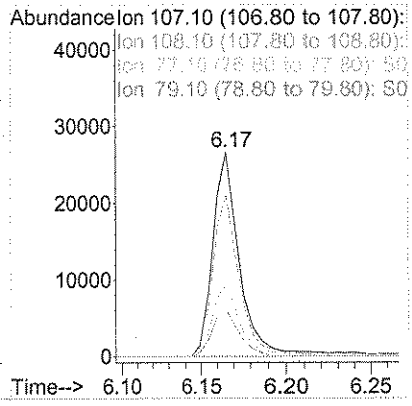


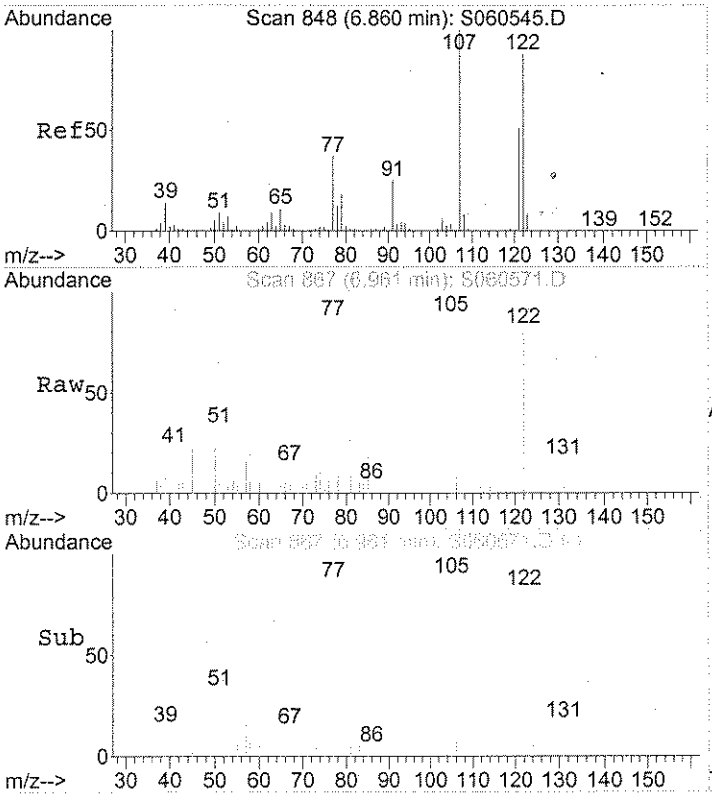


#21
3- and 4-Methylphenol Coelution
Concen: 8.75 mg/L
RT: 6.17 min Scan# 718
Delta R.T. -0.02 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:107 Resp: 30039

Ion	Ratio	Lower	Upper
107	100		
108	78.5	64.6	97.0
77	37.0	20.7	31.1#
79	23.1	14.6	21.8#

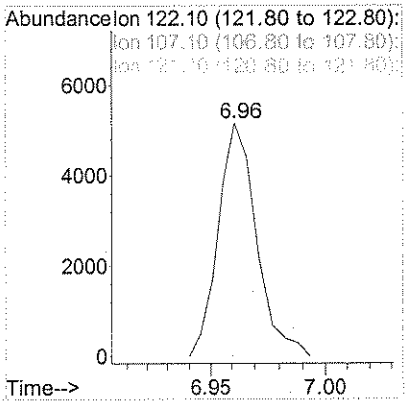


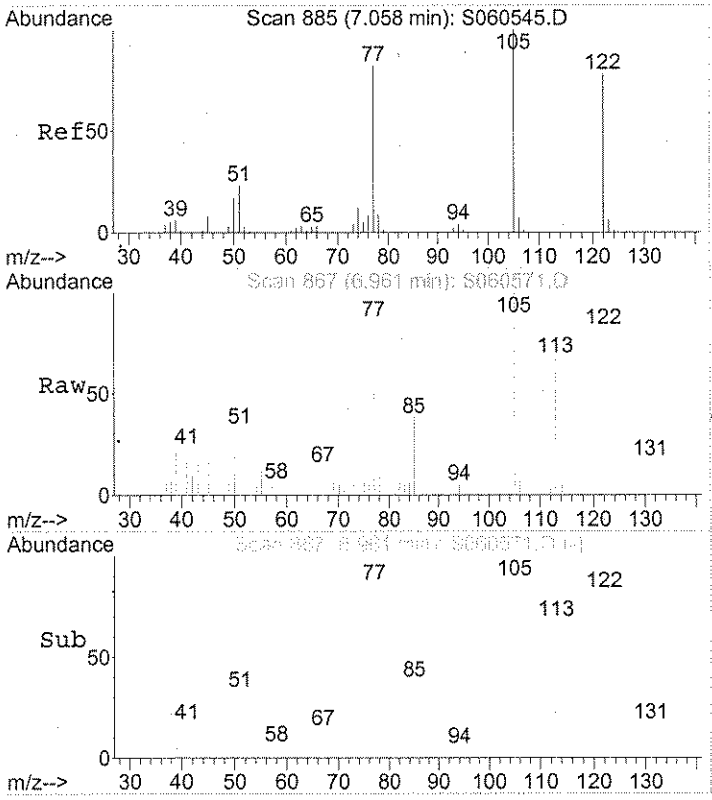


#27
2,4-Dimethylphenol
Concen: 1.18 mg/L
RT: 6.96 min Scan# 867
Delta R.T. 0.10 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:122 Resp: 6144

Ion	Ratio	Lower	Upper
122	100		
107	0.0	84.8	127.2#
121	0.0	46.1	69.1#

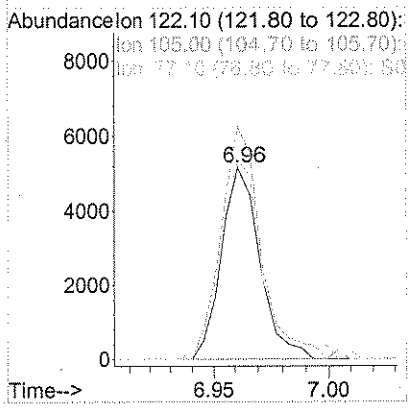


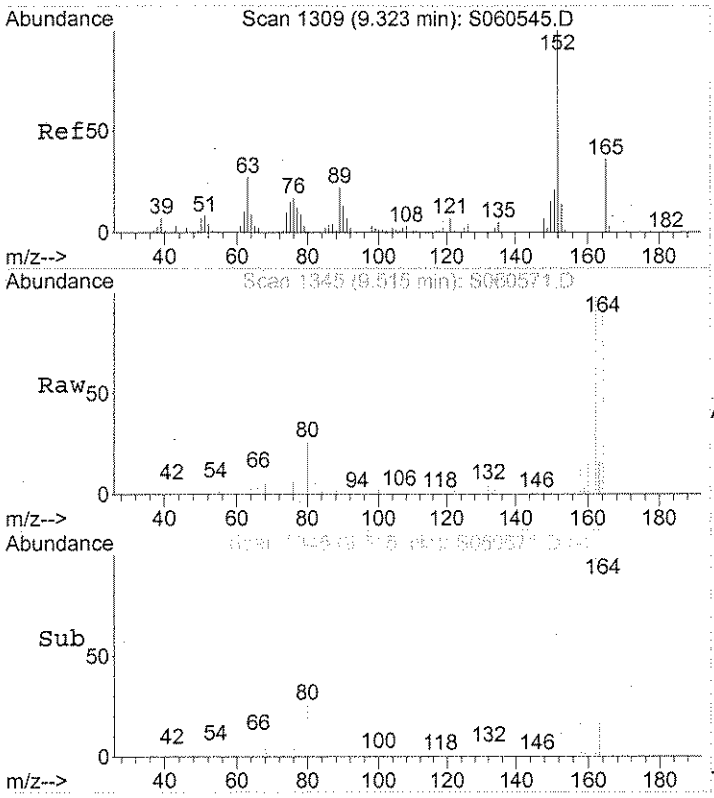


#31
Benzoic acid
Concen: 4.33 mg/L
RT: 6.96 min Scan# 867
Delta R.T. -0.10 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:122 Resp: 6144

Ion	Ratio	Lower	Upper
122	100		
105	126.9	93.8	140.6
77	117.8	67.5	101.3#

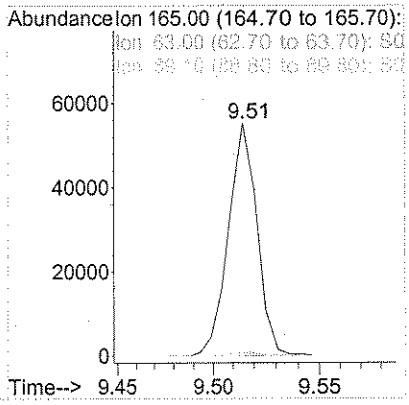


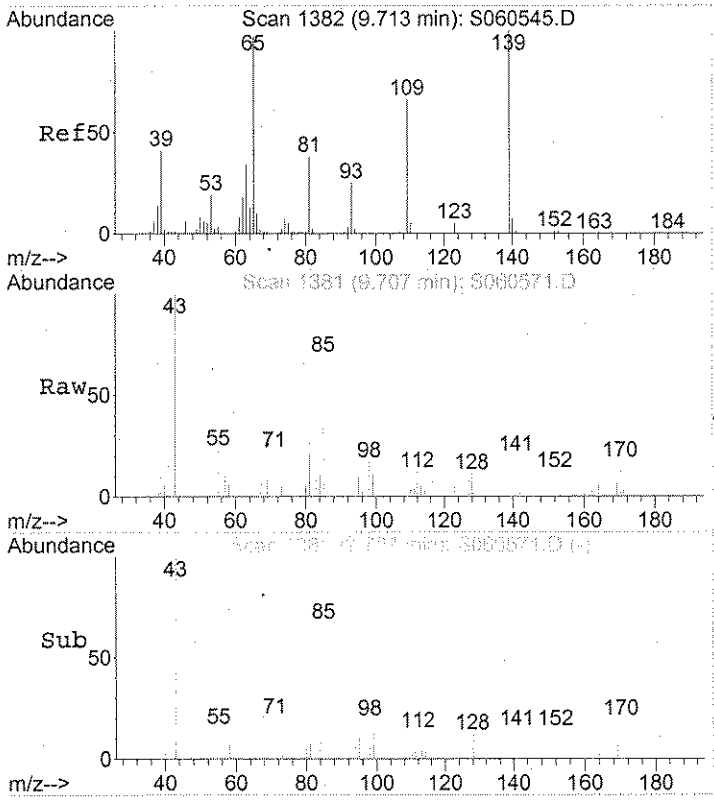


#46
2,6-Dinitrotoluene
Concen: 18.25 mg/L
RT: 9.51 min Scan# 1345
Delta R.T. 0.19 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:165 Resp: 53338

Ion	Ratio	Lower	Upper
165	100		
63	0.4	54.4	81.6#
89	1.9	36.9	55.3#

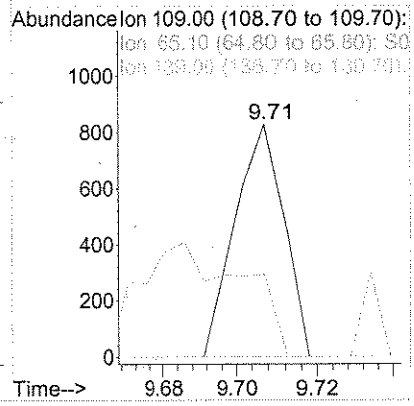


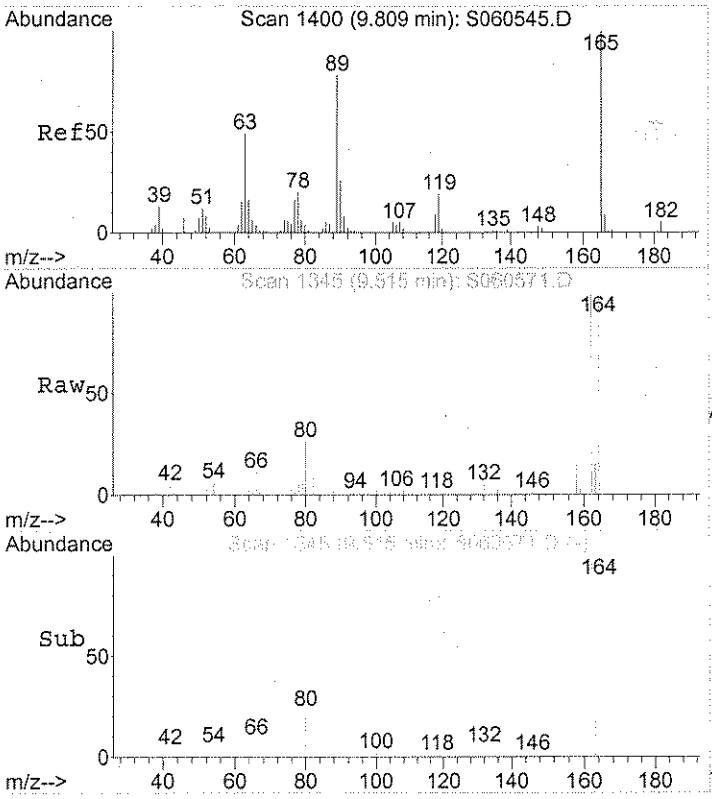


#51
4-Nitrophenol
Concen: 0.45 mg/L
RT: 9.71 min Scan# 1381
Delta R.T. -0.00 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:109 Resp: 704

Ion	Ratio	Lower	Upper
109	100		
65	111.4	158.2	237.4#
139	0.0	178.5	267.7#

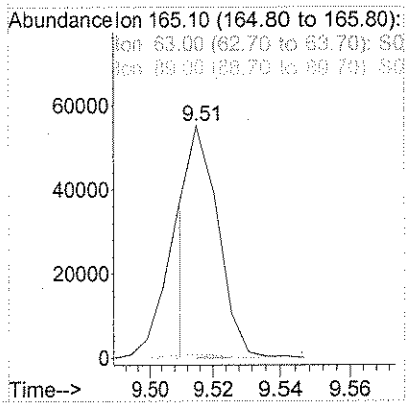


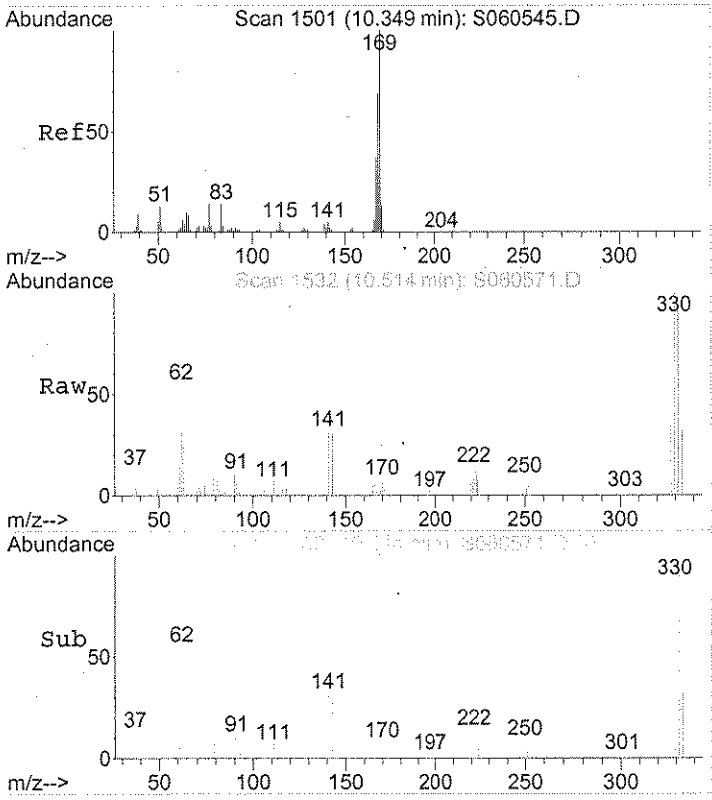


#52
2,4-Dinitrotoluene
Concen: 9.85 mg/L
RT: 9.51 min Scan# 1345
Delta R.T. -0.29 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:165 Resp: 34561

Ion	Ratio	Lower	Upper
165	100		
63	0.6	34.7	52.1#
89	0.0	53.1	79.7#

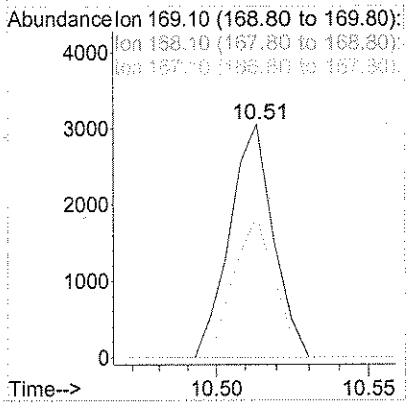


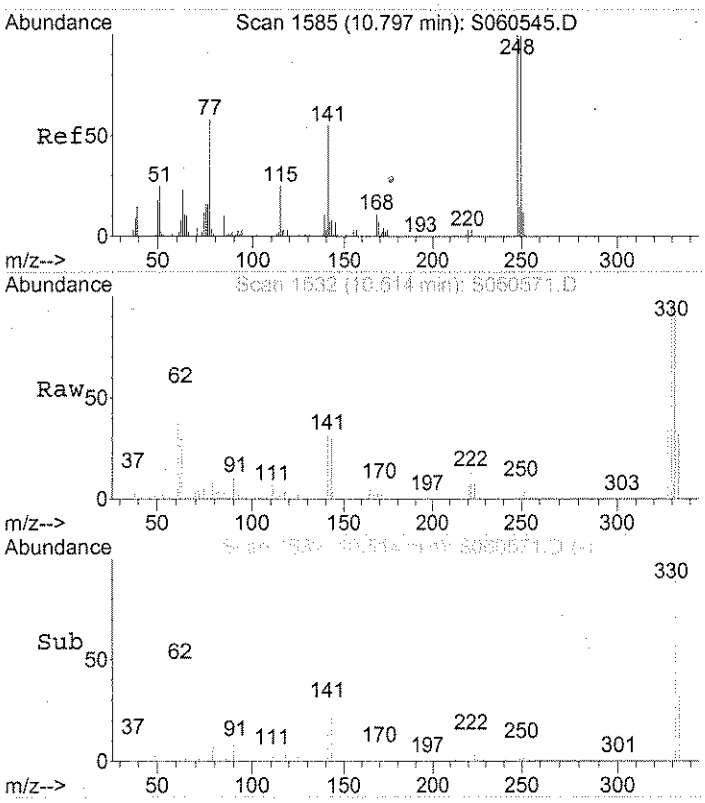


#59
N-Nitrosodiphenylamine
Concen: 0.38 mg/L
RT: 10.51 min Scan# 1532
Delta R.T. 0.17 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:169 Resp: 3025

Ion	Ratio	Lower	Upper
169	100		
168	0.0	54.0	81.0#
167	55.5	28.1	42.1#

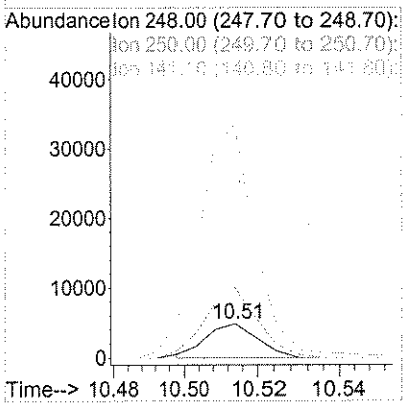


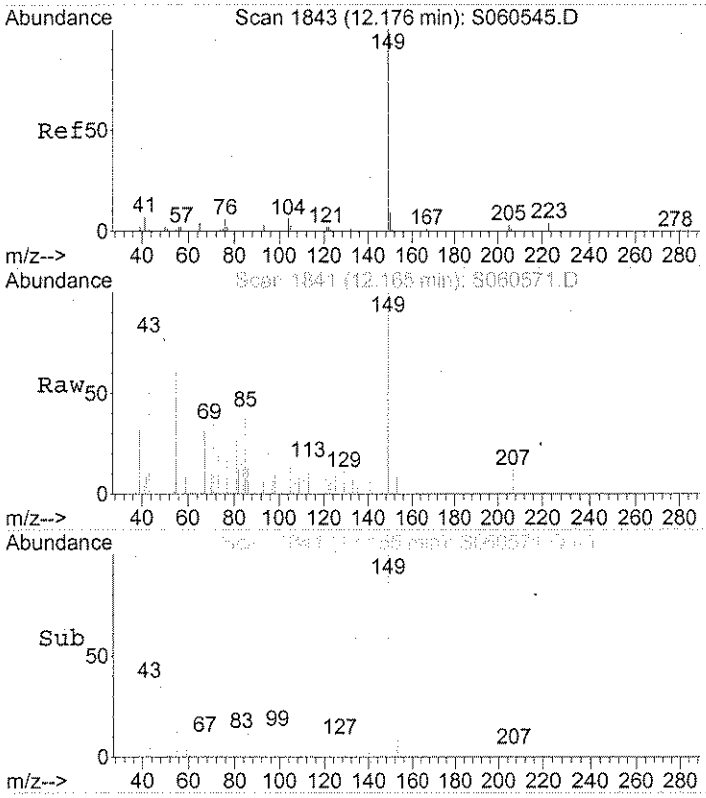


#62
4-Bromophenyl phenyl ether
Concen: 1.27 mg/L
RT: 10.51 min Scan# 1532
Delta R.T. -0.28 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:248 Resp: 4656

Ion	Ratio	Lower	Upper
248	100		
250	202.0	77.6	116.4#
141	711.7	49.4	74.0#

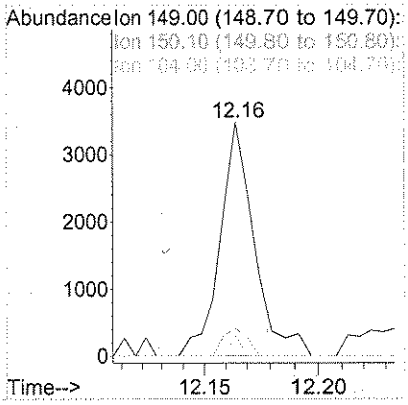


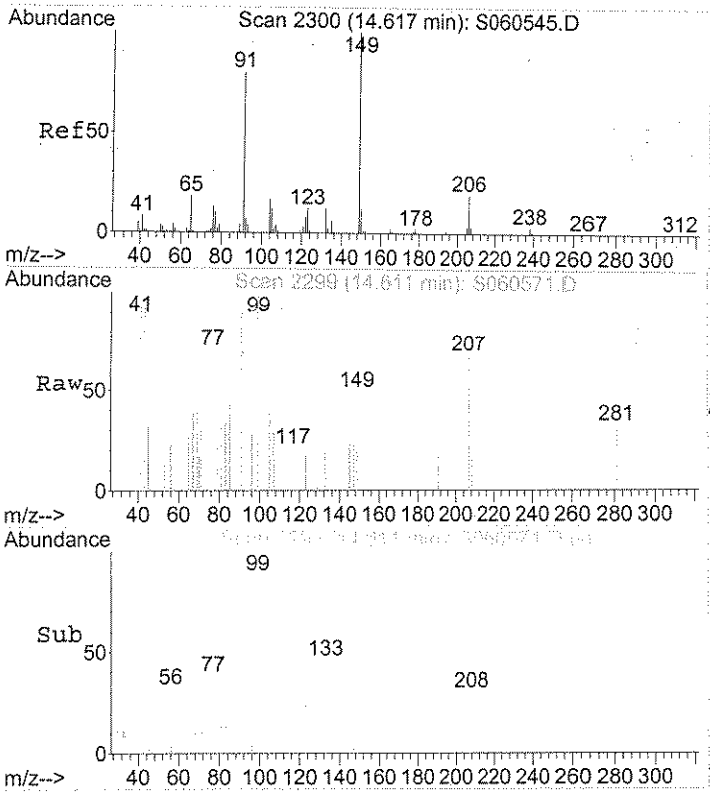


#68
Di-n-butylphthalate
Concen: 0.20 mg/L
RT: 12.16 min Scan# 1841
Delta R.T. -0.01 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:149 Resp: 3792

Ion	Ratio	Lower	Upper
149	100		
150	8.5	7.4	11.2
104	2.5	3.5	5.3#

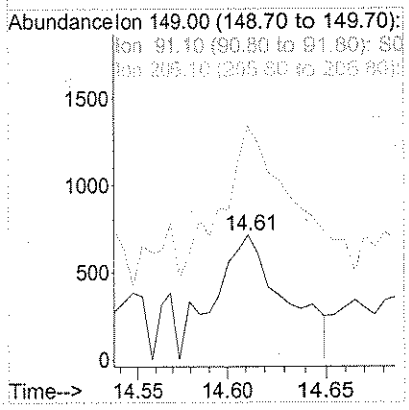


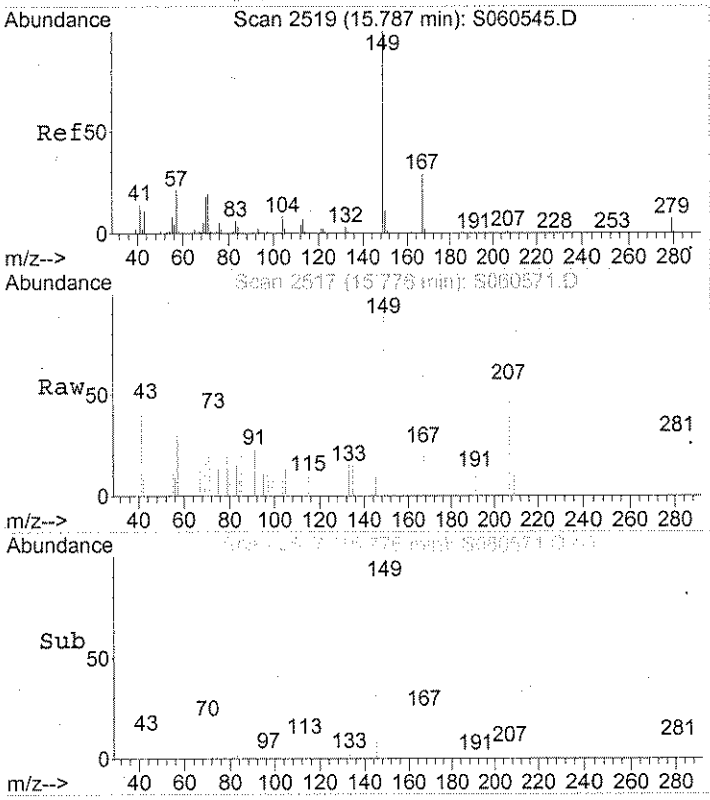


#74
Butylbenzylphthalate
Concen: 2.21 mg/L
RT: 14.61 min Scan# 2299
Delta R.T. -0.01 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:149 Resp: 1833

Ion	Ratio	Lower	Upper
149	100		
91	122.2	56.8	85.2#
206	0.0	15.0	22.6#

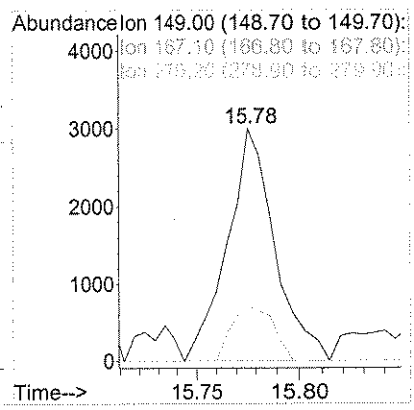




#78
Bis(2-ethylhexyl)phthalate
Concen: 0.69 mg/L
RT: 15.78 min Scan# 2517
Delta R.T. -0.01 min
Lab File: S060571.D
Acq: 24 Apr 2006 7:09 pm

Tgt Ion:149 Resp: 4877

Ion	Ratio	Lower	Upper
149	100		
167	20.9	22.6	33.8#
279	0.0	4.9	7.3#



SUPPORT DOCUMENTATION

Liquid-Liquid Extraction, 3520C

22

Semi-Volatile Water

Date	4/12/06
Time	13:30

2823

Batches: LO600578 ✓1

Client(s): GCosyntec

Analytical Method(s)

- [x] 8270C
- [ ] MSSIM
- [ ] TCLP, 1311
- [x] 1,4 DIO

Solvent Lots

DCM: 45348 3/28/06 4/12/06

Spikes

Surrogate: 13-EXS-93C-1

Amt. 0.5 ml Exp: 4/20/06

Spike: 13-EXS-956

Amt. 0.5 ml Exp: 4/30/06

Spiked by CMC Witness CR

pH Adjustment

- [x] Initial: pH 7 By/date: CMC 4/12/06
- [x] Acidic: pH <2 By/date: CMC 4/12/06
- [x] Basic: pH >12 By/date: CMC 4/12/06

Cleanups

- [ ] GPC, 3640A — Calib: ____ By/date: ____ ID: ____
- Initial KD — [ ] 1.0ml aliquot saved — By/date: ____ vol: ____ ml
- [ ] Mercury, 3660B — By/date: ____ Lot: ____
- [ ] No cleanups

Comments:

LY Diox spike: 13-EXS-81C use 1.0ml Exp: 4/28/06

LVG06-00535

Test Code(s)	Spikes		Amt	Final KD	Relinq.
8270	Surrogate	Spike	(1L)	H2O bath temp 85 °C; Date & Volume	Date
Sample ID	X	X	By: CMC 4/12/06	By: CLE 4/13/06	By: CLE
SWB1	✓		1.0	1.0ml	4/13/06
SWL1	✓	✓	1.0		
SWL2	✓	✓	1.0		
LO600578-1.07	✓		1.05		
-2.07	✓		1.05		
-3.07	✓		1.05		
-4.07	✓		1.05		
-5.04	✓		1.0		
-7.04	✓		0.98		

- [ ] Completed ms/msd
- [x] Sample limited, no ms/msd, duplicate LCS

032

Peer Review By: 617

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060561.D Vial: 3
Acq On : 24 Apr 2006 11:58 am Operator: SC
Sample : 1PPM 8270 CCV Inst : MSS
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 12:23:25 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	225591	40.00	mg/L	-0.02
22) Naphthalene-d8	7.25	136	909810	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.50	164	502845	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	849080	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	771495	40.00	mg/L	-0.04
80) Perylene-d12	18.40	264	456489	40.00	mg/L	-0.03
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	3587	0.53	mg/L	-0.01
Spiked Amount 50.000			Recovery =	1.06%		
7) Phenol-d5	5.19	99	6624	0.76	mg/L	-0.03
Spiked Amount 50.000			Recovery =	1.52%		
23) Nitrobenzene-d5	6.35	82	6790	0.83	mg/L	-0.02
Spiked Amount 50.000			Recovery =	1.66%		
41) 2-Fluorobiphenyl	8.64	172	13975	0.92	mg/L	-0.03
Spiked Amount 50.000			Recovery =	1.84%		
61) 2,4,6-Tribromophenol	10.49	330	1843	0.71	mg/L	-0.03
Spiked Amount 50.000			Recovery =	1.42%		
73) Terphenyl-d14	13.66	244	14502	0.82	mg/L	-0.04
Spiked Amount 50.000			Recovery =	1.64%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	2499	0.82	mg/L #	75
3) N-Nitrosodimethylamine	2.75	42	2480	0.82	mg/L	89
4) Pyridine	2.78	79	5514	0.67	mg/L #	59
5) PGMEA	3.99	43	6260	1.42	mg/L #	76
8) Aniline	5.26	93	7833	0.92	mg/L	93
9) Phenol	5.21	94	7731	0.81	mg/L #	79
10) Bis(2-chloroethyl)ether	5.31	93	7046	0.94	mg/L	85
11) 2-Chlorophenol	5.39	128	6229	0.84	mg/L	97
12) 1,3-Dichlorobenzene	5.56	146	7859	0.89	mg/L	98
13) 1,4-Dichlorobenzene	5.56	146	7860	0.87	mg/L	97
14) Benzyl alcohol	5.82	108	3010	0.71	mg/L #	79
15) 1,2-Dichlorobenzene	5.87	146	7831	0.91	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.92	99	2618	0.58	mg/L	95
17) 2-Methylphenol	5.97	108	5924	0.85	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.00	45	3460	1.97	mg/L #	34
19) N-Nitrosodi-n-propylamine	6.18	70	5221	0.86	mg/L #	65
20) Hexachloroethane	6.26	117	3189	0.88	mg/L	95
21) 3- and 4-Methylphenol Coel	6.15	107	7189	1.66	mg/L #	92
24) Nitrobenzene	6.38	77	7922	0.87	mg/L #	76
25) Isophorone	6.67	82	13531	0.88	mg/L #	92
26) 2-Nitrophenol	6.79	139	2905	0.73	mg/L	98
27) 2,4-Dimethylphenol	6.83	122	5166	0.79	mg/L	92
28) Bis(2-chloroethoxy)methane	6.96	93	7222	0.88	mg/L #	94
29) 2,4-Dichlorophenol	7.08	162	4701	0.73	mg/L	97
30) 1,2,4-Trichlorobenzene	7.19	180	6448	0.87	mg/L	99
31) Benzoic acid	6.83	122	5166	3.85	mg/L #	20
32) Naphthalene	7.27	128	20066	0.90	mg/L	98
33) 4-Chloroaniline	7.38	127	5507	0.81	mg/L #	93
34) Hexachlorobutadiene	7.50	225	3720	0.82	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060561.D Vial: 3
Acq On : 24 Apr 2006 11:58 am Operator: SC
Sample : 1PPM 8270 CCV Inst : MSS
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 12:23:25 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

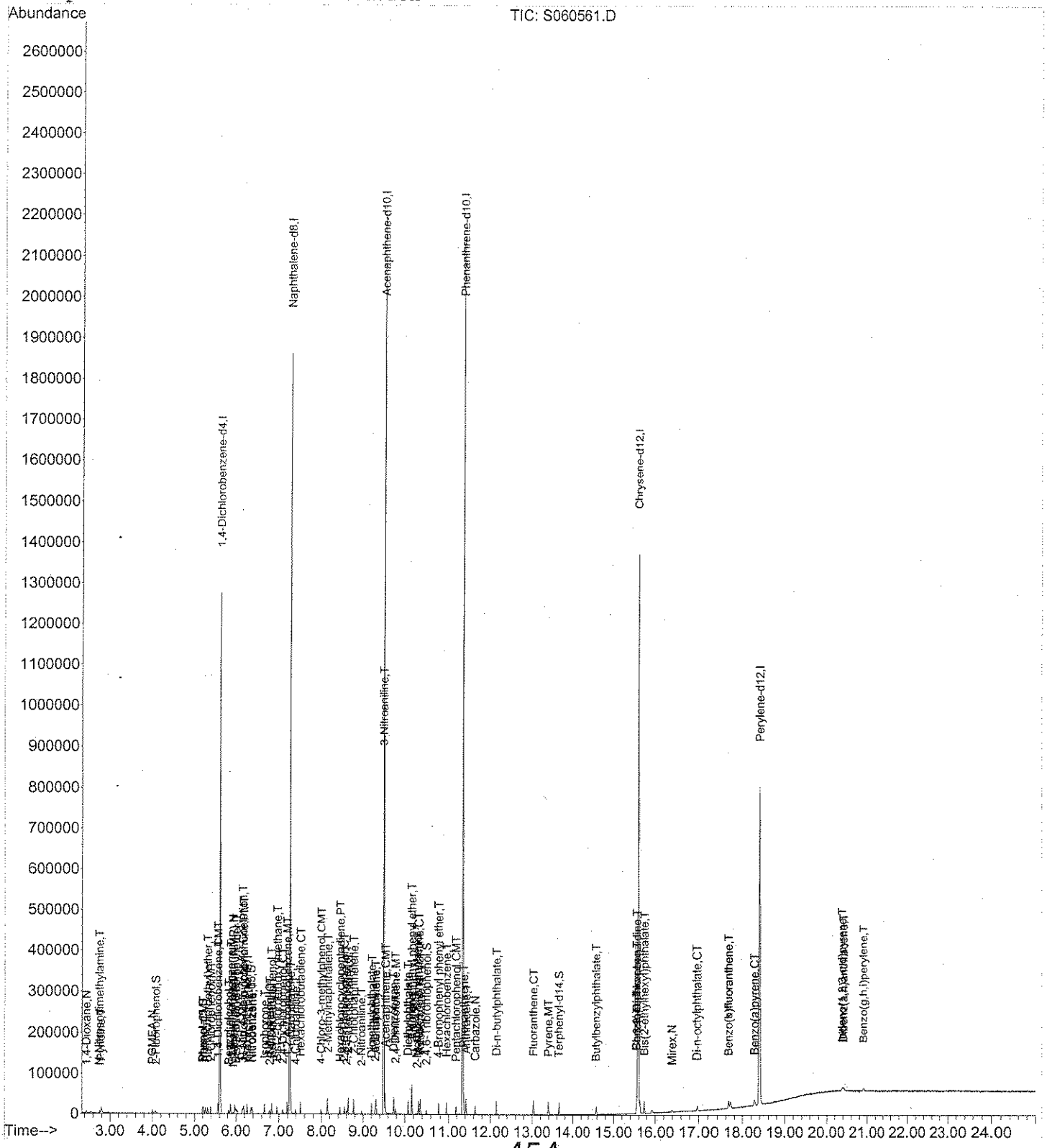
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.00	107	4676	0.75	mg/L	#	86
36)	2-Methylnaphthalene	8.15	142	13137	0.89	mg/L		99
38)	Hexachlorocyclopentadiene	8.44	237	3723	0.81	mg/L	#	95
39)	2,4,6-Trichlorophenol	8.55	196	3443	0.75	mg/L		99
40)	2,4,5-Trichlorophenol	8.61	196	3605	0.72	mg/L	#	94
42)	2-Chloronaphthalene	8.77	162	12153	0.90	mg/L		99
43)	2-Nitroaniline	8.95	65	2471	0.63	mg/L	#	82
44)	Dimethylphthalate	9.21	163	12763	0.87	mg/L	#	91
45)	Acenaphthylene	9.31	152	18656	0.90	mg/L		98
46)	2,6-Dinitrotoluene	9.29	165	2575	0.71	mg/L	#	51
47)	3-Nitroaniline	9.48	138	1316	0.48	mg/L	#	1
48)	Acenaphthene	9.54	154	11574	0.94	mg/L		98
50)	Dibenzofuran	9.73	168	16768	0.89	mg/L	#	82
52)	2,4-Dinitrotoluene	9.78	165	3068	0.71	mg/L	#	72
53)	Fluorene	10.17	166	13437	0.91	mg/L		94
54)	Diethylphthalate	10.08	149	13390	0.92	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.16	204	6882	0.91	mg/L		95
58)	2-Methyl-4,6-dinitrophenol	10.28	198	790	0.27	mg/L	#	1
59)	N-Nitrosodiphenylamine	10.32	169	9384	0.91	mg/L		97
60)	Azobenzene	10.35	77	16686	0.93	mg/L	#	94
62)	4-Bromophenyl phenyl ether	10.77	248	3872	0.82	mg/L		92
63)	Hexachlorobenzene	10.95	284	4828	0.95	mg/L		98
64)	Pentachlorophenol	11.18	266	3398	0.96	mg/L		91
65)	Phenanthrene	11.36	178	19892	0.96	mg/L		97
66)	Anthracene	11.42	178	18138	0.90	mg/L		100
67)	Carbazole	11.64	167	14732	0.93	mg/L		96
68)	Di-n-butylphthalate	12.14	149	20543	0.86	mg/L	#	98
69)	Fluoranthene	13.04	202	21396	0.92	mg/L	#	93
72)	Pyrene	13.39	202	21705	0.84	mg/L		99
74)	Butylbenzylphthalate	14.58	149	6924	2.45	mg/L		91
75)	Benz(a)anthracene	15.55	228	18487	0.87	mg/L		97
76)	3,3'-Dichlorobenzidine	15.55	252	3151	2.23	mg/L	#	75
77)	Chrysene	15.55	228	18487	0.93	mg/L		94
78)	Bis(2-ethylhexyl)phthalate	15.74	149	13361	0.90	mg/L	#	98
79)	Mirex	16.39	272	1396	0.34	mg/L		99
81)	Di-n-octylphthalate	16.97	149	10634	0.38	mg/L	#	97
82)	Benzo(b)fluoranthene	17.67	252	13510	0.69	mg/L		97
83)	Benzo(k)fluoranthene	17.67	252	13510	0.71	mg/L		97
84)	Benzo(a)pyrene	18.29	252	9575	0.61	mg/L	#	90
85)	Indeno(1,2,3-c,d)pyrene	20.38	276	8432	0.65	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.42	278	5968	0.61	mg/L	#	77
87)	Benzo(g,h,i)perylene	20.91	276	7915	0.77	mg/L	#	77

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060561.D Vial: 3
Acq On : 24 Apr 2006 11:58 am Operator: SC
Sample : 1PPM 8270 CCV Inst : MSS
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 12:23 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



QC Sample Data

Batch# LWG0600535

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	04/14/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	73382	**Prep Date:**	04/06/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:			
Tune Ref:		**Method ID:**	MJ360
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 13:04	**Quant Date:**	04/24/2006 13:43	**Vial:**	5
Run Type:	MB			**Dilution:**	1.0
Lab ID:	LWG0600535-3			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.60	0.00?	152	221549	40.00	OK
2	Naphthalene-d8	7.24	0.00?	136	868697	40.00	OK
3	Acenaphthene-d10	9.50	0.01?	164	487805	40.00	OK
4	Phenanthrene-d10	11.34	0.00?	188	813434	40.00	OK
5	Chrysene-d12	15.59	0.00?	240	742333	40.00	OK
6	Perylene-d12	18.40	0.01?	264	441156	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.06	0.00	0.00	112	288522	43.44	87	45-101	OK	
1	Phenol-d5	5.19	0.00	0.00	99	371527	43.65	87	49-107	OK	
2	Nitrobenzene-d5	6.35	0.00	0.00	82	394745	50.76	102	58-105	OK	
3	2-Fluorobiphenyl	8.64	0.00	0.00	172	687286	46.49	93	50-101	OK	
4	2,4,6-Tribromophenol	10.49	0.00	0.00	330	123263	49.41	99	43-104	OK	
5	Terphenyl-d14	13.66	0.01	0.00	244	762940	45.00	90	34-120	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.50	U	
1	N-Nitrosodimethylamine				42	0		2.8	U	
1	Pyridine				79	0		2.9	U	
1	PGMEA				43	0d		3.5	U	
1	Aniline				93	0		3.0	U	
1	Phenol				94	0		1.0	U	
1	Bis(2-chloroethyl) Ether				93	0		1.0	U	
1	2-Chlorophenol				128	0		1.0	U	
1	1,3-Dichlorobenzene				146	0		1.0	U	
1	1,4-Dichlorobenzene				146	0		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D		**Instrument:** MSS
Acqu Date:	04/24/2006 13:04	**Quant Date:** 04/24/2006 13:43	**Vial:** 5
Run Type:	MB		**Dilution:** 1.0
Lab ID:	LWG0600535-3		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol				108	0**d**		1.0	U	
1	1,2-Dichlorobenzene				146	0		1.0	U	
1	1-Methyl-2-pyrrolidinone				99	0		5.3	U	
1	2-Methylphenol				108	0		1.0	U	
1	Bis(2-chloroisopropyl) Ether				45	0		1.0	U	
1	N-Nitrosodi-n-propylamine				70	0**d**		1.0	U	
1	Hexachloroethane				117	0		4.0	U	
1	3- and 4-Methylphenol Coelutio				107	0		1.0	U	
2	Nitrobenzene				77	0		1.0	U	
2	Isophorone				82	0		1.0	U	
2	2-Nitrophenol				139	0		1.0	U	
2	2,4-Dimethylphenol				122	0		2.0	U	
2	bis(2-Chloroethoxy)methane				93	0		1.0	U	
2	2,4-Dichlorophenol				162	0		1.0	U	
2	1,2,4-Trichlorobenzene				180	0		1.5	U	
2	Benzoic acid				122	0		2.7	U	
2	Naphthalene				128	0		1.0	U	
2	4-Chloroaniline				127	0		1.7	U	
2	Hexachlorobutadiene				225	0		1.6	U	
2	4-Chloro-3-methylphenol				107	0		1.0	U	
2	2-Methylnaphthalene				142	0		1.0	U	
3	Hexachlorocyclopentadiene				237	0		1.0	U	
3	2,4,6-Trichlorophenol				196	0		2.2	U	
3	2,4,5-Trichlorophenol				196	0		2.2	U	
3	2-Chloronaphthalene				162	0		1.0	U	
3	2-Nitroaniline				65	0		1.0	U	
3	Dimethyl Phthalate				163	0		1.0	U	
3	Acenaphthylene				152	0		1.0	U	
3	2,6-Dinitrotoluene				165	0**d**		1.8	U	
3	3-Nitroaniline				138	0		1.5	U	
3	Acenaphthene				154	0		1.0	U	
3	2,4-Dinitrophenol				184	0		1.5	U	
3	Dibenzofuran				168	0		1.0	U	
3	4-Nitrophenol				109	0**d**		1.7	U	
3	2,4-Dinitrotoluene				165	0		1.0	U	
3	Fluorene				166	0		1.0	U	
3	Diethyl Phthalate				149	0		6.6	U	
3	4-Chlorophenyl Phenyl Ether				204	0		1.0	U	
3	4-Nitroaniline				138	0		1.9	U	
4	2-Methyl-4,6-dinitrophenol				198	0		1.5	U	
4	N-Nitrosodiphenylamine				169	0		1.0	U	
4	Azobenzene				77	0		1.0	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		2.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 13:04	**Quant Date:**	04/24/2006 13:43	**Vial:**	5
Run Type:	MB			**Dilution:**	1.0
Lab ID:	LWG0600535-3			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene				284	0		1.0	U	
4	Pentachlorophenol				266	0		1.4	U	
4	Phenanthrene				178	0		1.0	U	
4	Anthracene				178	0		1.0	U	
4	Carbazole				167	0		2.0	U	
4	Di-n-butyl Phthalate				149	0		2.0	U	
4	Fluoranthene				202	0		1.0	U	
5	Pyrene				202	0		1.0	U	
5	Butyl Benzyl Phthalate	14.58		0.00	149	1804	2.05	2.05	J	
5	Benz(a)anthracene				228	0		1.5	U	
5	3,3'-Dichlorobenzidine				252	0		3.5	U	
5	Chrysene				228	0		1.5	U	
5	Bis(2-ethylhexyl) Phthalate	15.74		0.00	149	4215	0.2900	1.0	U	
5	Mirex				272	0		0		
6	Di-n-octyl Phthalate				149	0		1.3	U	
6	Benzo(b)fluoranthene				252	0		1.7	U	
6	Benzo(k)fluoranthene				252	0		1.9	U	
6	Benzo(a)pyrene				252	0		1.8	U	
6	Indeno(1,2,3-cd)pyrene				276	0		3.8	U	
6	Dibenz(a,h)anthracene				278	0		3.4	U	
6	Benzo(g,h,i)perylene				276	0		4.1	U	

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060563.D Vial: 5
Acq On : 24 Apr 2006 1:04 pm Operator: SC
Sample : S0406WA1 Inst : MSS
Misc : S0406WA1;06-04-06;06-APR-2006;1000;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 13:39:20 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E. 4/24/06

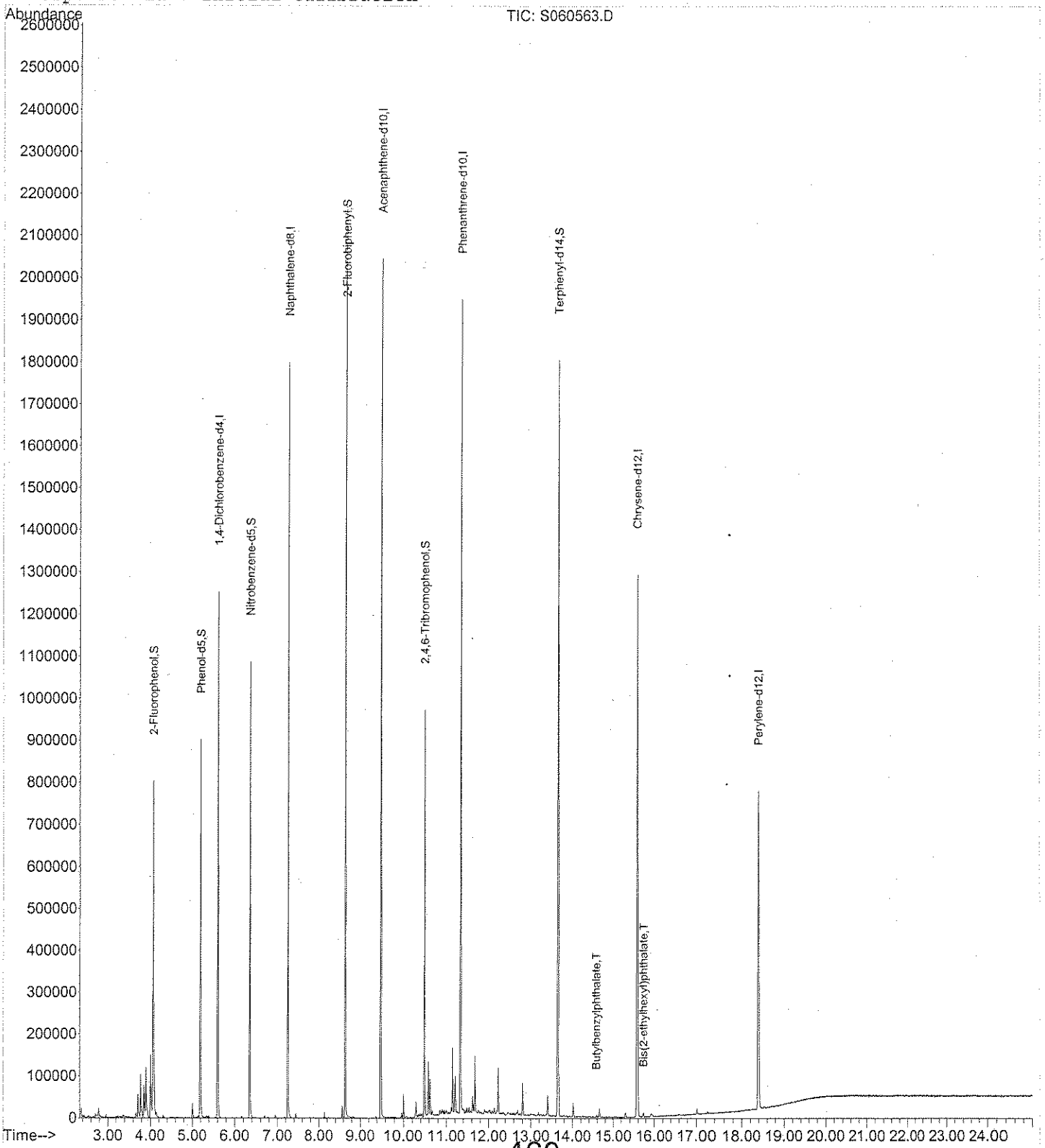
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	221549	40.00	mg/L	-0.02
22) Naphthalene-d8	7.24	136	868697	40.00	mg/L	-0.03
37) Acenaphthene-d10	9.50	164	487805	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	813434	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	742333	40.00	mg/L	-0.04
80) Perylene-d12	18.40	264	441156	40.00	mg/L	-0.04
System Monitoring Compounds						
6) 2-Fluorophenol	4.06	112	288522	43.44	mg/L	-0.02
Spiked Amount 50.000			Recovery =	86.88%		
7) Phenol-d5	5.19	99	371527	43.65	mg/L	-0.03
Spiked Amount 50.000			Recovery =	87.30%		
23) Nitrobenzene-d5	6.35	82	394745	50.76	mg/L	-0.02
Spiked Amount 50.000			Recovery =	101.52%		
41) 2-Fluorobiphenyl	8.64	172	687286	46.49	mg/L	-0.02
Spiked Amount 50.000			Recovery =	92.98%		
61) 2,4,6-Tribromophenol	10.49	330	123263	49.41	mg/L	-0.03
Spiked Amount 50.000			Recovery =	98.82%		
73) Terphenyl-d14	13.66	244	762940	45.00	mg/L	-0.03
Spiked Amount 50.000			Recovery =	90.00%		
Target Compounds						Qvalue
74) Butylbenzylphthalate	14.58	149	1804	2.05	mg/L #	83
78) Bis(2-ethylhexyl)phthalate	15.74	149	4215	0.29	mg/L #	90

(#) = qualifier out of range (m) = manual integration
S060563.D BA060422.M Mon Apr 24 13:43:48 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060563.D Vial: 5
Acq On : 24 Apr 2006 1:04 pm Operator: SC
Sample : S0406WA1 Inst : MSS
Misc : S0406WA1;06-04-06;06-APR-2006;1000;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 13:43 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060563.D Vial: 5
Acq On : 24 Apr 2006 1:04 pm Operator: SC
Sample : S0406WA1 Inst : MSS
Misc : S0406WA1;06-04-06;06-APR-2006;1000;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 13:39:20 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

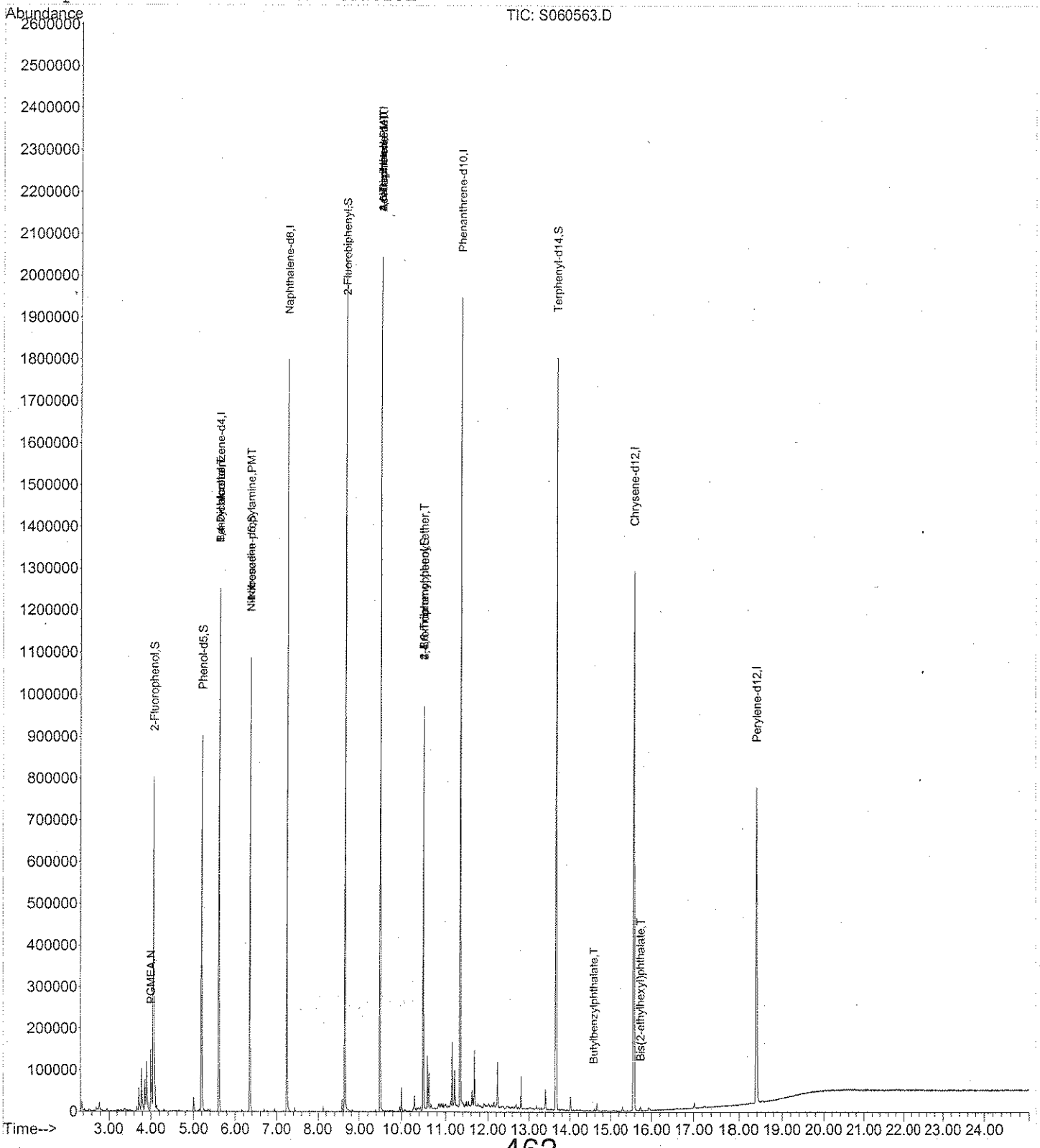
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	221549	40.00	mg/L	-0.02
22) Naphthalene-d8	7.24	136	868697	40.00	mg/L	-0.03
37) Acenaphthene-d10	9.50	164	487805	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	813434	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	742333	40.00	mg/L	-0.04
80) Perylene-d12	18.40	264	441156	40.00	mg/L	-0.04
System Monitoring Compounds						
6) 2-Fluorophenol	4.06	112	288522	43.44	mg/L	-0.02
Spiked Amount 50.000			Recovery = 86.88%			
7) Phenol-d5	5.19	99	371527	43.65	mg/L	-0.03
Spiked Amount 50.000			Recovery = 87.30%			
23) Nitrobenzene-d5	6.35	82	394745	50.76	mg/L	-0.02
Spiked Amount 50.000			Recovery = 101.52%			
41) 2-Fluorobiphenyl	8.64	172	687286	46.49	mg/L	-0.02
Spiked Amount 50.000			Recovery = 92.98%			
61) 2,4,6-Tribromophenol	10.49	330	123263	49.41	mg/L	-0.03
Spiked Amount 50.000			Recovery = 98.82%			
73) Terphenyl-d14	13.66	244	762940	45.00	mg/L	-0.03
Spiked Amount 50.000			Recovery = 90.00%			
Target Compounds						Qvalue
5) PGMEA	4.00	43	18420	4.26	mg/L #	71
14) Benzyl alcohol	5.60	108	1140	0.27	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.35	70	58079	9.77	mg/L #	12
46) 2,6-Dinitrotoluene	9.50	165	63459	18.10	mg/L #	23
51) 4-Nitrophenol	9.49	109	998	0.53	mg/L #	20
62) 4-Bromophenyl phenyl ether	10.49	248	5576	1.24	mg/L #	1
74) Butylbenzylphthalate	14.58	149	1804	2.05	mg/L #	83
78) Bis(2-ethylhexyl)phthalate	15.74	149	4215	0.29	mg/L #	90

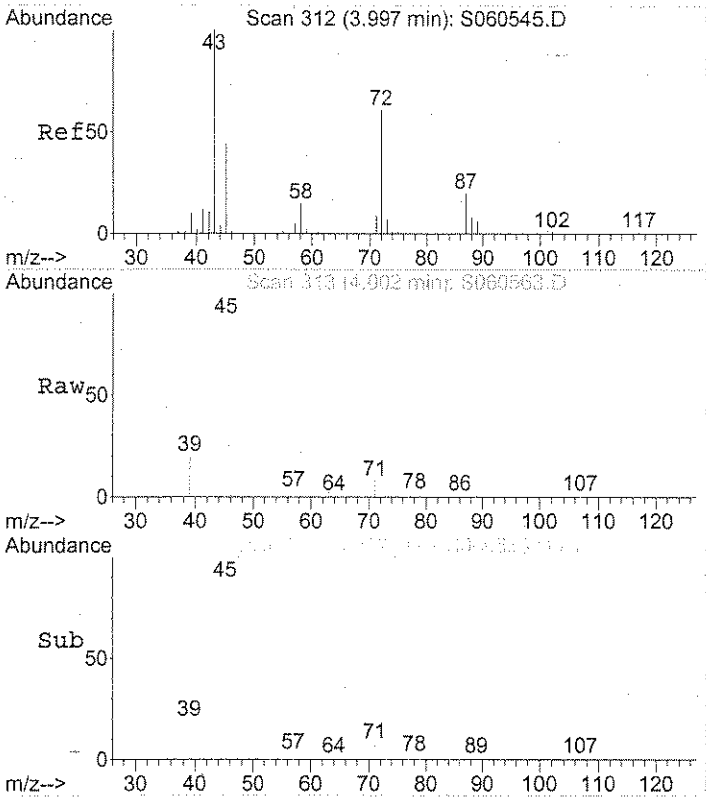
(#) = qualifier out of range (m) = manual integration
S060563.D BA060422.M Mon Apr 24 13:39:23 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060563.D Vial: 5
Acq On : 24 Apr 2006 1:04 pm Operator: SC
Sample : S0406WA1 Inst : MSS
Misc : S0406WA1;06-04-06;06-APR-2006;1000;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 13:39 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

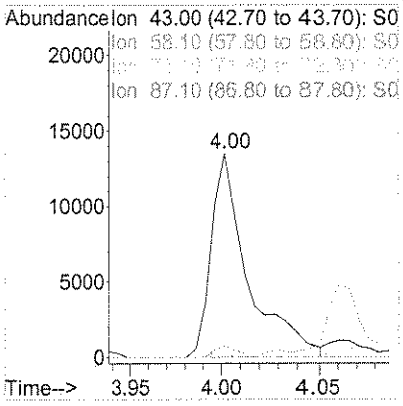


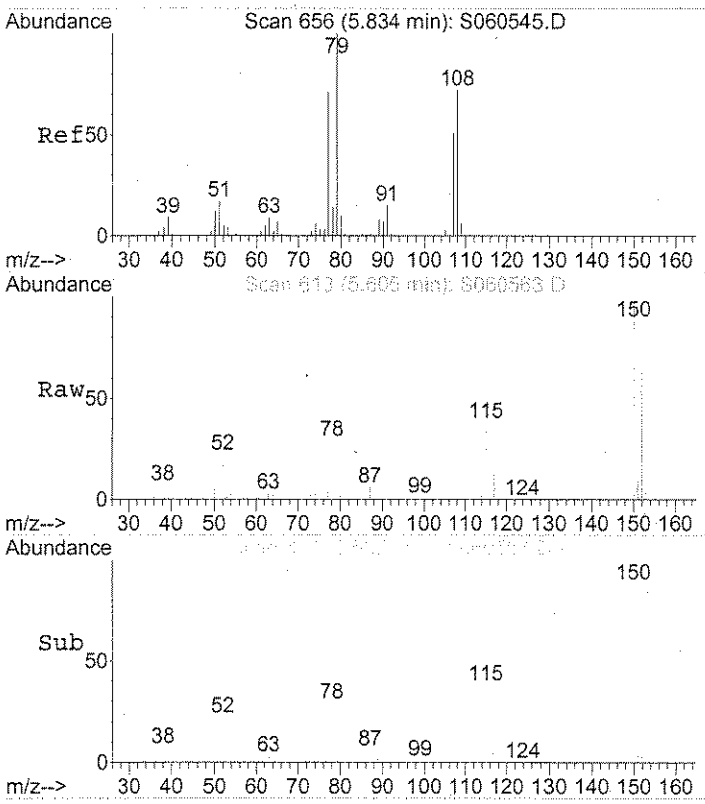


#5
PGMEA
Concen: 4.26 mg/L
RT: 4.00 min Scan# 313
Delta R.T. 0.01 min
Lab File: S060563.D
Acq: 24 Apr 2006 1:04 pm

Tgt Ion: 43 Resp: 18420

Ion	Ratio	Lower	Upper
43	100		
58	3.4	8.0	12.0#
72	1.0	14.6	21.8#
87	0.0	5.1	7.7#

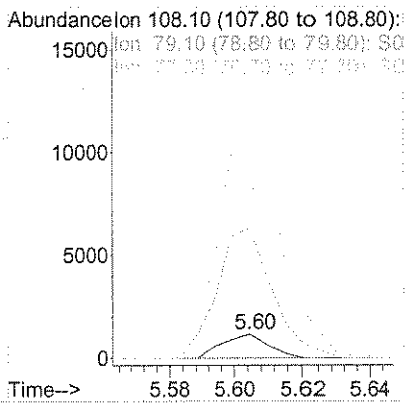


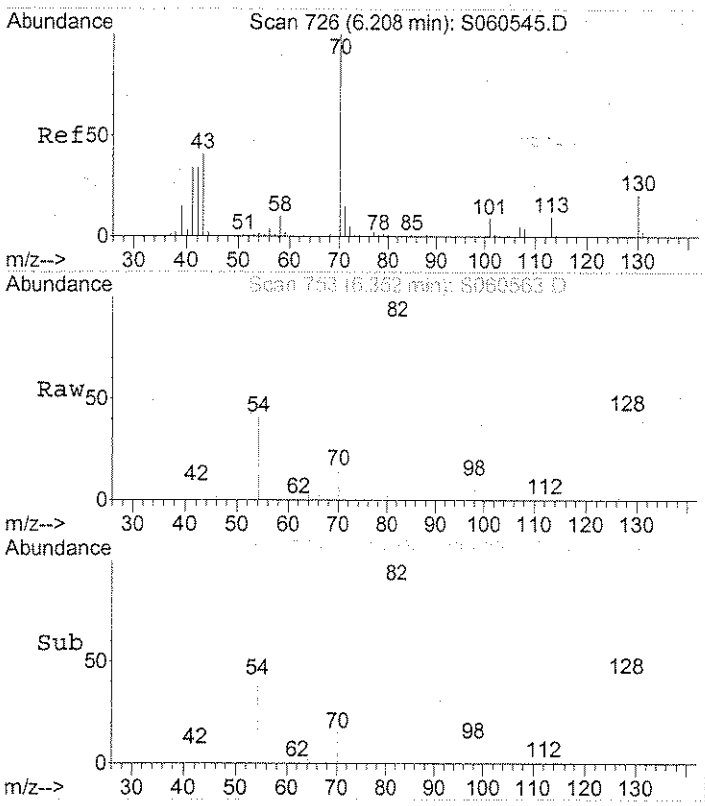


#14
Benzyl alcohol
Concen: 0.27 mg/L
RT: 5.60 min Scan# 613
Delta R.T. -0.23 min
Lab File: S060563.D
Acq: 24 Apr 2006 1:04 pm

Tgt Ion:108 Resp: 1140

Ion	Ratio	Lower	Upper
108	100		
79	644.0	93.8	140.8#
77	1274.2	61.0	91.4#

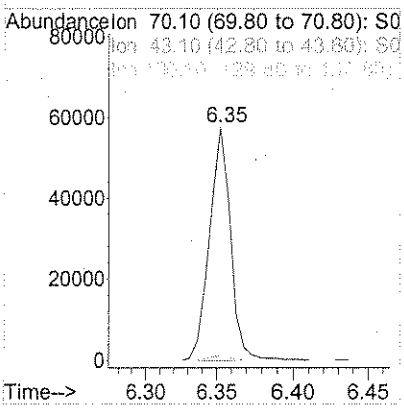


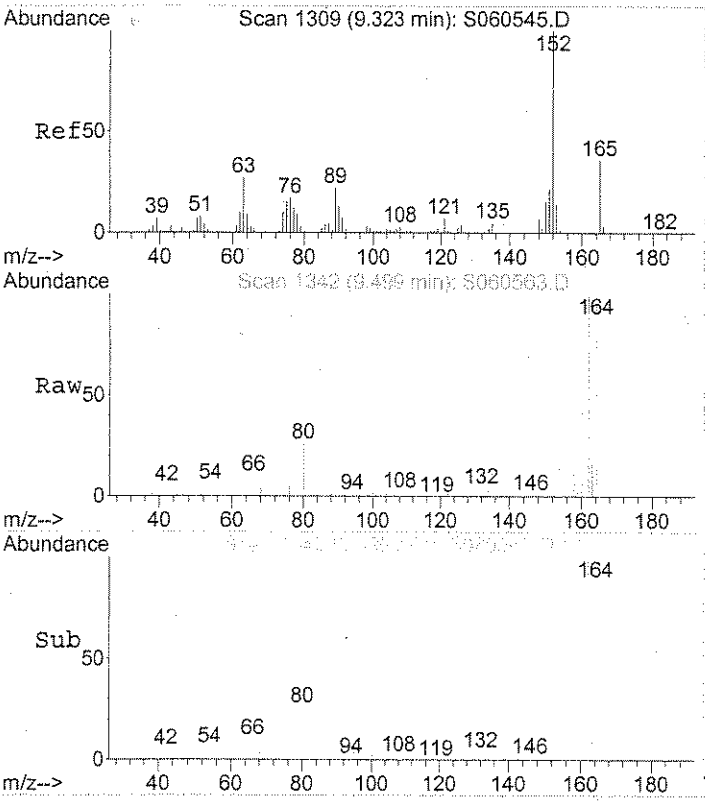


#19
N-Nitrosodi-n-propylamine
Concen: 9.77 mg/L
RT: 6.35 min Scan# 753
Delta R.T. 0.14 min
Lab File: S060563.D
Acq: 24 Apr 2006 1:04 pm

Tgt Ion: 70 Resp: 58079

Ion	Ratio	Lower	Upper
70	100		
43	2.1	80.8	121.2#
130	1.6	19.1	28.7#

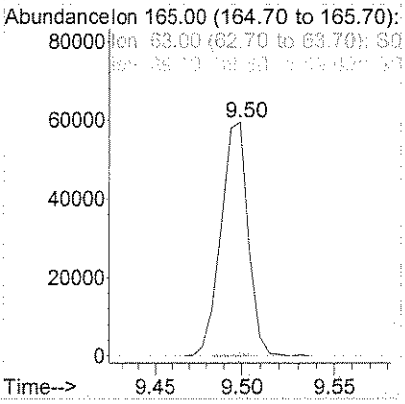


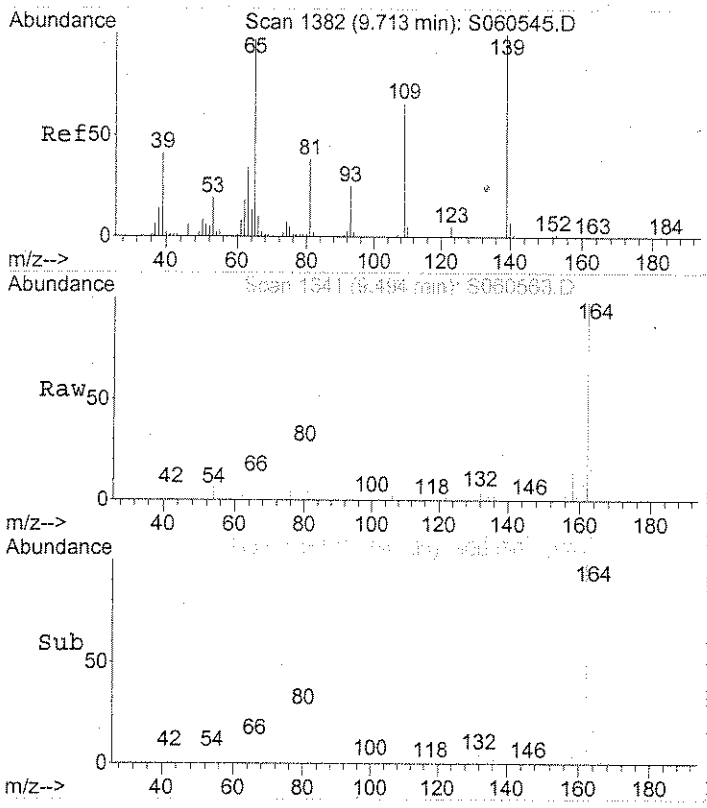


#46
2,6-Dinitrotoluene
Concen: 18.10 mg/L
RT: 9.50 min Scan# 1342
Delta R.T. 0.18 min
Lab File: S060563.D
Acq: 24 Apr 2006 1:04 pm

Tgt Ion:165 Resp: 63459

Ion	Ratio	Lower	Upper
165	100		
63	0.7	54.4	81.6#
89	1.4	36.9	55.3#

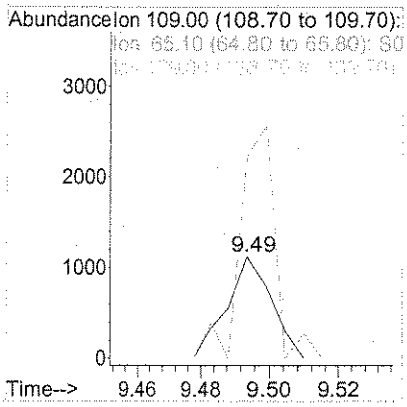


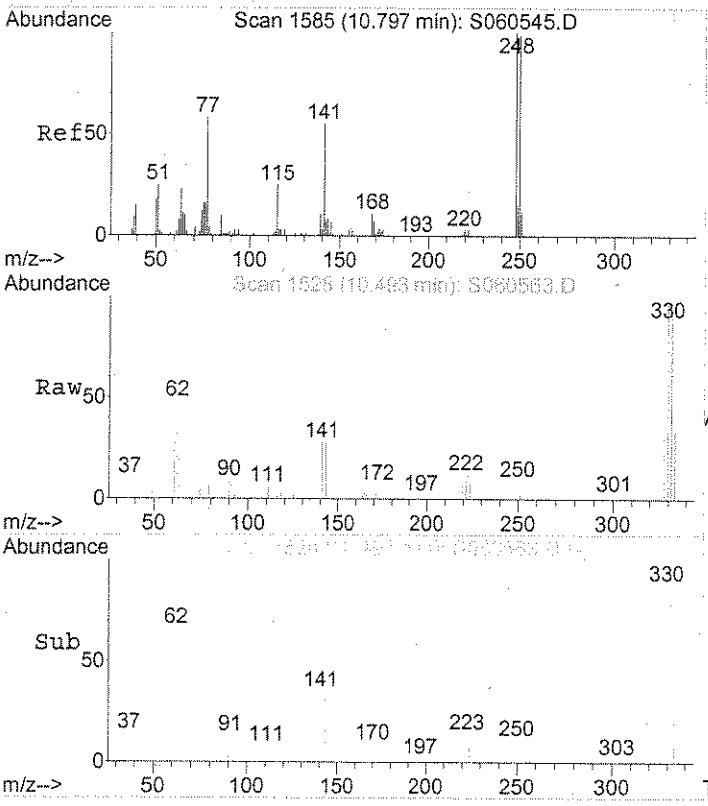


#51
4-Nitrophenol
Concen: 0.53 mg/L
RT: 9.49 min Scan# 1341
Delta R.T. -0.22 min
Lab File: S060563.D
Acq: 24 Apr 2006 1:04 pm

Tgt Ion:109 Resp: 998

Ion	Ratio	Lower	Upper
109	100		
65	175.6	158.2	237.4
139	0.0	178.5	267.7#

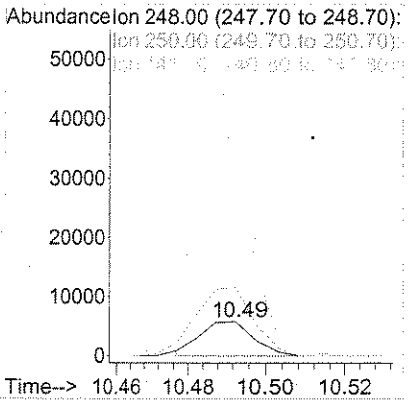


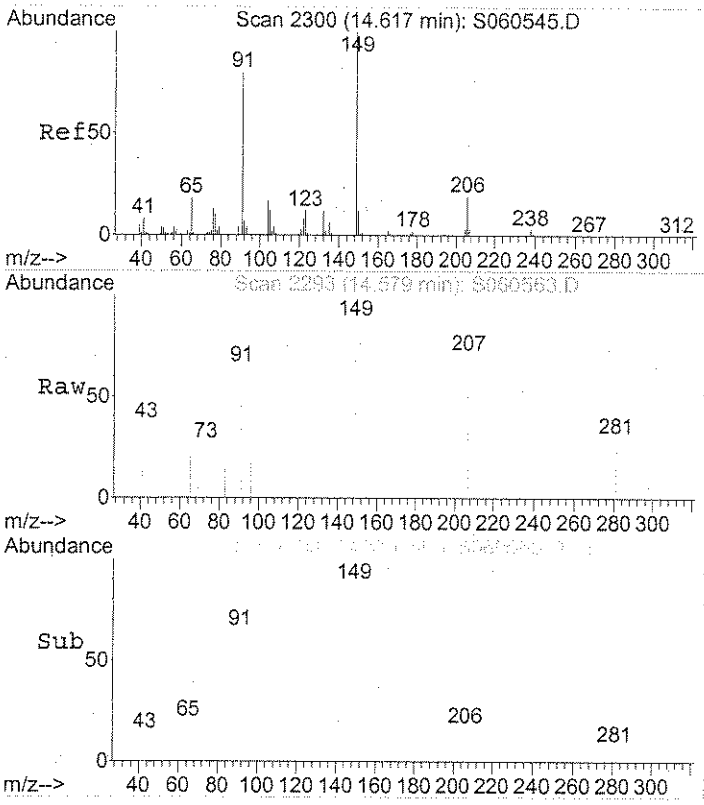


#62
4-Bromophenyl phenyl ether
Concen: 1.24 mg/L
RT: 10.49 min Scan# 1528
Delta R.T. -0.30 min
Lab File: S060563.D
Acq: 24 Apr 2006 1:04 pm

Tgt Ion:248 Resp: 5576

Ion	Ratio	Lower	Upper
248	100		
250	205.4	77.6	116.4#
141	669.0	49.4	74.0#

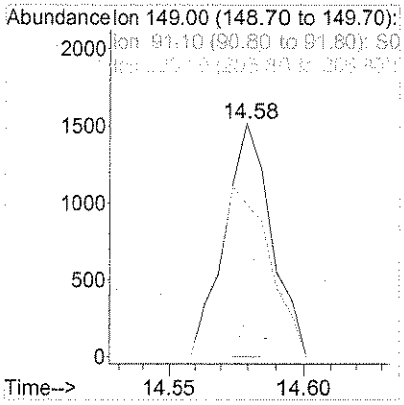


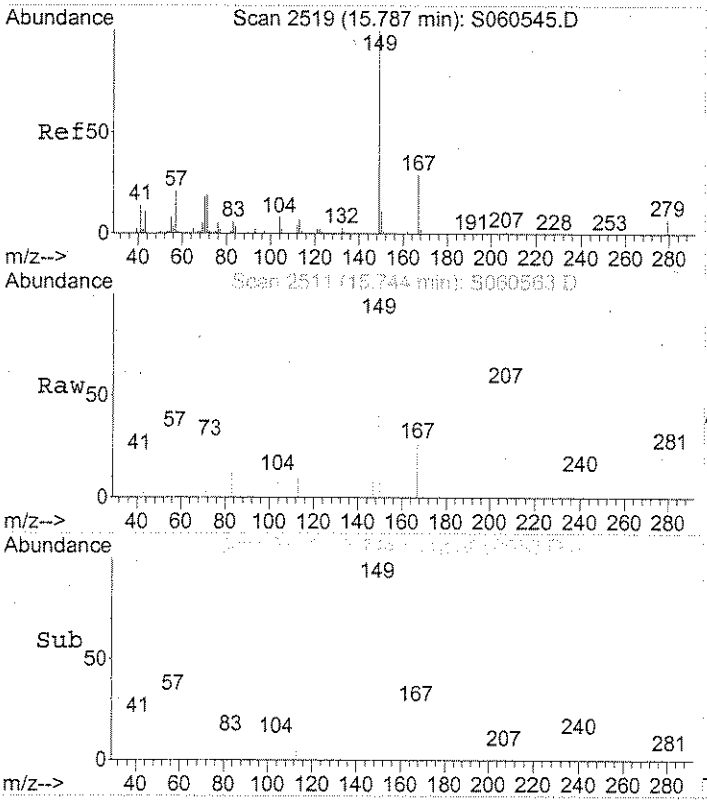


#74
Butylbenzylphthalate
Concen: 2.05 mg/L
RT: 14.58 min Scan# 2293
Delta R.T. -0.04 min
Lab File: S060563.D
Acq: 24 Apr 2006 1:04 pm

Tgt Ion:149 Resp: 1804

Ion	Ratio	Lower	Upper
149	100		
91	81.7	56.8	85.2
206	4.5	15.0	22.6#

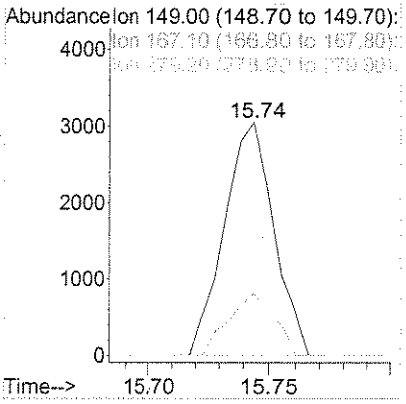




#78
Bis(2-ethylhexyl)phthalate
Concen: 0.29 mg/L
RT: 15.74 min Scan# 2511
Delta R.T. -0.04 min
Lab File: S060563.D
Acq: 24 Apr 2006 1:04 pm

Tgt Ion:149 Resp: 4215

Ion	Ratio	Lower	Upper
149	100		
167	24.0	22.6	33.8
279	0.0	4.9	7.3#



Exception Report

Data File: C:\MSDCHEM\1\DATA\S060424\S060564.D
Lab ID: LWG0600535-1
RunType: LCS
Matrix: WATER

Date Acquired: 04/24/2006 13:38
Date Quantitated: 04/24/2006 14:06
Batch ID: LWG0600549
Analysis Method: 8270C
MethodJoinID: MJ360

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Bis(2-chloroisopropyl) Ether	35.0	NA	30	
Continuing Calibration Recovery	Bis(2-chloroisopropyl) Ether	104.3	NA	30	
	N-Nitrosodimethylamine	45.8	NA	30	
Above Highest ICAL Level	Bis(2-chloroisopropyl) Ether	111.21	NA	100	

Primary Review: SC 4/25/06

Secondary Review: [illegible] 4/28/06

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	04/14/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
		Prep Date:	04/06/2006		
Prep Ref:	73380				

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:			
Tune Ref:		**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060564.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 13:38	**Quant Date:**	04/24/2006 14:06	**Vial:**	6
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	LWG0600535-1			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.60	0.00?	152	215038	40.00	OK
2	Naphthalene-d8	7.25	0.01?	136	839053	40.00	OK
3	Acenaphthene-d10	9.49	0.00?	164	456403	40.00	OK
4	Phenanthrene-d10	11.34	0.00?	188	741552	40.00	OK
5	Chrysene-d12	15.59	0.00?	240	625165	40.00	OK
6	Perylene-d12	18.39	0.00?	264	304431	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.06	0.00	0.00	112	273931	42.50	85	45-101	OK	
1	Phenol-d5	5.20	0.01	0.00	99	367719	44.51	89	49-107	OK	
2	Nitrobenzene-d5	6.35	0.00	0.00	82	379534	50.53	101	58-105	OK	
3	2-Fluorobiphenyl	8.64	0.00	0.00	172	647729	46.83	94	50-101	OK	
4	2,4,6-Tribromophenol	10.49	0.00	0.00	330	110659	48.66	97	43-104	OK	
5	Terphenyl-d14	13.66	0.01	0.00	244	641701	44.94	90	34-120	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.43		0.00	88	116921m	40.02	40.0		
1	N-Nitrosodimethylamine	2.74	0.01	0.00	42	157900m	54.50	54.5		
1	Pyridine	2.74		0.00	79	301180m	38.66	38.7		
1	PGMEA				43	0d		3.5	U	
1	Aniline	5.25		0.00	93	482908	59.35	59.4		
1	Phenol	5.21		0.00	94	397838	43.67	43.7		
1	Bis(2-chloroethyl) Ether	5.31		0.00	93	309408	43.26	43.3		
1	2-Chlorophenol	5.38		0.00	128	313216	44.31	44.3		
1	1,3-Dichlorobenzene	5.56		0.00	146	290970	34.42	34.4		
1	1,4-Dichlorobenzene	5.62		0.00	146	297369	34.40	34.4		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060564.D		**Instrument:** MSS
Acqu Date:	04/24/2006 13:38	**Quant Date:** 04/24/2006 14:06	**Vial:** 6
Run Type:	LCS		**Dilution:** 1.0
Lab ID:	LWG0600535-1		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	5.81		0.00	108	202066	49.71	49.7		
1	1,2-Dichlorobenzene	5.87		0.00	146	293472	35.95	36.0		
1	1-Methyl-2-pyrrolidinone				99	0d		5.3	U	
1	2-Methylphenol	5.96	-0.02	0.00	108	278830	42.21	42.2		
1	Bis(2-chloroisopropyl) Ether	5.99		0.00	45	186617	111.21	111	E	
1	N-Nitrosodi-n-propylamine	6.19	0.01	0.00	70	266320	46.17	46.2		
1	Hexachloroethane	6.26		0.00	117	117919	34.23	34.2		
1	3- and 4-Methylphenol Coelutio	6.15	-0.01	0.00	107	379270	91.82	91.8		
2	Nitrobenzene	6.38	0.01	0.00	77	388221	46.22	46.2		
2	Isophorone	6.67	0.01	0.00	82	680339	47.93	47.9		
2	2-Nitrophenol	6.79	0.01	0.00	139	175387	47.61	47.6		
2	2,4-Dimethylphenol	6.83		0.00	122	225393	37.58	37.6		
2	bis(2-Chloroethoxy)methane	6.96	0.01	0.00	93	377993	49.94	49.9		
2	2,4-Dichlorophenol	7.08		0.00	162	256966	43.27	43.3		
2	1,2,4-Trichlorobenzene	7.19		0.00	180	244386	35.70	35.7		
2	Benzoic acid	7.04	0.03	0.00	122	205107	45.48	45.5	J	
2	Naphthalene	7.27		0.00	128	857738	41.79	41.8		
2	4-Chloroaniline	7.37		0.00	127	358183	56.85	56.9		
2	Hexachlorobutadiene	7.50		0.00	225	130216	31.28	31.3		
2	4-Chloro-3-methylphenol	7.98		0.00	107	269049	46.95	47.0		
2	2-Methylnaphthalene	8.15		0.00	142	574534	42.09	42.1		
3	Hexachlorocyclopentadiene	8.44		0.00	237	95107	22.78	22.8		
3	2,4,6-Trichlorophenol	8.54		0.00	196	178113	42.97	43.0		
3	2,4,5-Trichlorophenol	8.59		0.00	196	198664	44.01	44.0		
3	2-Chloronaphthalene	8.77		0.00	162	529003	43.38	43.4		
3	2-Nitroaniline	8.95	0.01	0.00	65	190688	53.31	53.3		
3	Dimethyl Phthalate	9.21		0.00	163	604620	45.45	45.5		
3	Acenaphthylene	9.30		0.00	152	860167	45.60	45.6		
3	2,6-Dinitrotoluene	9.30	0.01	0.00	165	146147	44.55	44.6		
3	3-Nitroaniline	9.48	0.01	0.00	138	149628	59.82	59.8		
3	Acenaphthene	9.54		0.00	154	493503	44.06	44.1		
3	2,4-Dinitrophenol	9.58		0.00	184	95392	47.36	47.4	J	
3	Dibenzofuran	9.73		0.00	168	747911	43.74	43.7		
3	4-Nitrophenol	9.68		0.00	109	75184	42.95	43.0	J	
3	2,4-Dinitrotoluene	9.78		0.00	165	184592	46.88	46.9		
3	Fluorene	10.17		0.00	166	595691	44.47	44.5		
3	Diethyl Phthalate	10.09	0.01	0.00	149	601401	45.52	45.5		
3	4-Chlorophenyl Phenyl Ether	10.16		0.00	204	282687	41.13	41.1		
3	4-Nitroaniline	10.26	0.01	0.00	138	131438	54.33	54.3		
4	2-Methyl-4,6-dinitrophenol	10.29	0.01	0.00	198	118611	46.45	46.5		
4	N-Nitrosodiphenylamine	10.32		0.00	169	368314	41.11	41.1		
4	Azobenzene	10.36	0.01	0.00	77	737000	46.92	46.9		
4	4-Bromophenyl Phenyl Ether	10.77		0.00	248	176855	43.08	43.1		

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d: Compound manually deleted
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*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060564.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 13:38	**Quant Date:**	04/24/2006 14:06	**Vial:**	6
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	LWG0600535-1			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	10.95		0.00	284	199258	44.83	44.8		
4	Pentachlorophenol	11.18		0.00	266	130995	42.49	42.5		
4	Phenanthrene	11.37	0.01	0.00	178	815613	45.02	45.0		
4	Anthracene	11.43	0.01	0.00	178	808564	46.04	46.0		
4	Carbazole	11.64	0.01	0.00	167	739021	53.45	53.5		
4	Di-n-butyl Phthalate	12.14		0.00	149	1012057	48.59	48.6		
4	Fluoranthene	13.04	0.01	0.00	202	852833	42.08	42.1		
5	Pyrene	13.39		0.00	202	898524	43.10	43.1		
5	Butyl Benzyl Phthalate	14.58		0.00	149	411098	41.58	41.6		
5	Benz(a)anthracene	15.55		0.00	228	718470	41.92	41.9		
5	3,3'-Dichlorobenzidine	15.54		0.00	252	96467	26.30	26.3		
5	Chrysene	15.64	0.01	0.00	228	674490m	41.98	42.0		
5	Bis(2-ethylhexyl) Phthalate	15.74		0.00	149	695670	57.73	57.7		
5	Mirex				272	0		0	U	
6	Di-n-octyl Phthalate	16.97	0.01	0.00	149	662546	35.75	35.8		
6	Benzo(b)fluoranthene	17.67		0.00	252	518890m	39.49	39.5		
6	Benzo(k)fluoranthene	17.72		0.00	252	488521	38.75	38.8		
6	Benzo(a)pyrene	18.28		0.00	252	378354	35.87	35.9		
6	Indeno(1,2,3-cd)pyrene	20.37		0.00	276	285492	33.10	33.1		
6	Dibenz(a,h)anthracene	20.40		0.00	278	241302	36.90	36.9		
6	Benzo(g,h,i)perylene	20.90		0.00	276	220586	32.02	32.0		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
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E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Lab Control Spike Summary Report

Lab Control Spike Information

ListJoinID : LJ1260

Data File:	C:\MSDCHEM\1\DATA\S060424\S060564.D	**Instrument:**	MSS
Lab ID:	LWG0600535-1	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	04/24/2006 13:38
Matrix:	WATER	**Quant Date:**	04/24/2006 14:06

Duplicate Lab Control Spike Information

Data File:	C:\MSDCHEM\1\DATA\S060424\S060565.D	**Instrument:**	MSS
Lab ID:	LWG0600535-2	**Dilution:**	1
Client ID:	Duplicate Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	04/24/2006 14:12
Matrix:	WATER	**Quant Date:**	04/24/2006 14:51

Parameter Name	LCS Result	LCS Expected	LCS %Rec	DLCS Result	DLCS Expected	DLCS %Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	35.7	50.0	71	36.2	50.0	72	50-92	1	20
1,2-Dichlorobenzene	36.0	50.0	72	36.4	50.0	73	18-79	1	20
1,3-Dichlorobenzene	34.4	50.0	69	34.7	50.0	69	13-77	1	20
1,4-Dichlorobenzene	34.4	50.0	69	34.4	50.0	69	44-89	0	20
1,4-Dioxane	40.0	50.0	80	40.1	50.0	80	52-101	0	20
2,4,5-Trichlorophenol	44.0	50.0	88	45.3	50.0	91	71-107	3	20
2,4,6-Trichlorophenol	43.0	50.0	86	45.0	50.0	90	70-108	5	20
2,4-Dichlorophenol	43.3	50.0	87	43.8	50.0	88	70-98	1	20
2,4-Dimethylphenol	37.6	50.0	75	39.4	50.0	79	67-88	5	20
2,4-Dinitrophenol	47.4	50.0	95	49.6	50.0	99	47-101	5	20
2,4-Dinitrotoluene	46.9	50.0	94	48.7	50.0	97	62-102	4	20
2,6-Dinitrotoluene	44.6	50.0	89	46.0	50.0	92	74-104	3	20
2-Chloronaphthalene	43.4	50.0	87	44.7	50.0	89	58-98	3	20
2-Chlorophenol	44.3	50.0	89	44.7	50.0	89	62-104	1	20
2-Methyl-4,6-dinitrophenol	46.5	50.0	93	49.5	50.0	99 *	66-95	6	20
2-Methylnaphthalene	42.1	50.0	84	42.4	50.0	85	51-97	1	20
2-Methylphenol	42.2	50.0	84	42.8	50.0	86	63-86	1	20
2-Nitroaniline	53.3	50.0	107 *	55.3	50.0	111 *	65-100	4	20
2-Nitrophenol	47.6	50.0	95	48.1	50.0	96 *	56-95	1	20
3,3'-Dichlorobenzidine	26.3	50.0	53	35.6	50.0	71	53-77	30 *	20
3- and 4-Methylphenol Coelut	91.8	100	92	91.9	100	92	35-140	0	20
3-Nitroaniline	59.8	50.0	120	62.7	50.0	125	52-154	5	20
4-Bromophenyl Phenyl Ether	43.1	50.0	86	44.8	50.0	90	67-101	4	20
4-Chloro-3-methylphenol	47.0	50.0	94	47.8	50.0	96	65-104	2	20
4-Chloroaniline	56.9	50.0	114	57.5	50.0	115	78-127	1	20
4-Chlorophenyl Phenyl Ether	41.1	50.0	82	43.8	50.0	88	70-96	6	20
4-Nitroaniline	54.3	50.0	109	58.0	50.0	116	80-152	7	20
4-Nitrophenol	43.0	50.0	86	44.2	50.0	88	48-102	3	20
Acenaphthene	44.1	50.0	88	45.5	50.0	91	64-100	3	20
Acenaphthylene	45.6	50.0	91	47.7	50.0	95	72-97	5	20
Aniline	59.4	50.0	119 *	56.4	50.0	113 *	68-106	5	20
Anthracene	46.0	50.0	92	47.4	50.0	95	74-100	3	20
Benz(a)anthracene	41.9	50.0	84	44.0	50.0	88	74-101	5	20
Benzo(a)pyrene	35.9	50.0	72 *	36.8	50.0	74	73-109	3	20
Benzo(b)fluoranthene	39.5	50.0	79	40.7	50.0	81	70-110	3	20
Benzo(g,h,i)perylene	32.0	50.0	64	32.5	50.0	65	49-124	1	20
Benzo(k)fluoranthene	38.8	50.0	78	39.6	50.0	79	73-115	2	20
Benzoic acid	45.5	50.0	91 *	46.9	50.0	94 *	10-37	3	20

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1260

Data File:	C:\MSDCHEM\1\DATA\S060424\S060564.D	**Instrument:**	MSS
Lab ID:	LWG0600535-1	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	04/24/2006 13:38
Matrix:	WATER	**Quant Date:**	04/24/2006 14:06

Duplicate Lab Control Spike Information

Data File:	C:\MSDCHEM\1\DATA\S060424\S060565.D	**Instrument:**	MSS
Lab ID:	LWG0600535-2	**Dilution:**	1
Client ID:	Duplicate Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	04/24/2006 14:12
Matrix:	WATER	**Quant Date:**	04/24/2006 14:51

	LCS			DLCS					
Parameter Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Benzyl alcohol	49.7	50.0	99	49.7	50.0	99	50-108	0	20
bis(2-Chloroethoxy)methane	49.9	50.0	100 *	51.5	50.0	103 *	67-91	3	20
Bis(2-chloroethyl) Ether	43.3	50.0	87	43.5	50.0	87	61-94	1	20
Bis(2-chloroisopropyl) Ether	111	50.0	222 *	112	50.0	224 *	14-110	1	20
Bis(2-ethylhexyl) Phthalate	57.7	50.0	115	44.0	50.0	88	59-118	27 *	20
Butyl Benzyl Phthalate	41.6	50.0	83	43.0	50.0	86	72-109	3	20
Chrysene	42.0	50.0	84	44.0	50.0	88	72-99	5	20
Di-n-butyl Phthalate	48.6	50.0	97	50.2	50.0	100	71-113	3	20
Di-n-octyl Phthalate	35.8	50.0	72	37.3	50.0	75	59-128	4	20
Dibenz(a,h)anthracene	36.9	50.0	74	37.6	50.0	75	46-124	2	20
Dibenzofuran	43.7	50.0	87	45.8	50.0	92	70-94	5	20
Diethyl Phthalate	45.5	50.0	91	48.3	50.0	97	64-113	6	20
Dimethyl Phthalate	45.5	50.0	91	47.2	50.0	94	43-124	4	20
Fluoranthene	42.1	50.0	84	43.9	50.0	88	70-108	4	20
Fluorene	44.5	50.0	89	47.3	50.0	95	72-97	6	20
Hexachlorobenzene	44.8	50.0	90	47.4	50.0	95	69-100	6	20
Hexachlorobutadiene	31.3	50.0	63	31.3	50.0	63	10-98	0	20
Hexachlorocyclopentadiene	22.8	50.0	46	23.3	50.0	47	18-84	2	20
Hexachloroethane	34.2	50.0	68	34.0	50.0	68	10-82	1	20
Indeno(1,2,3-cd)pyrene	33.1	50.0	66	33.7	50.0	67	53-123	2	20
Isophorone	47.9	50.0	96	49.0	50.0	98	64-107	2	20
N-Nitrosodi-n-propylamine	46.2	50.0	92	46.9	50.0	94	58-110	2	20
N-Nitrosodimethylamine	54.5	50.0	109 *	55.7	50.0	111 *	25-79	2	20
N-Nitrosodiphenylamine	41.1	50.0	82	43.3	50.0	87	60-125	5	20
Naphthalene	41.8	50.0	84	42.2	50.0	84	42-91	1	20
Nitrobenzene	46.2	50.0	92	46.8	50.0	94 *	65-92	1	20
Pentachlorophenol	42.5	50.0	85	44.7	50.0	89	48-107	5	20
Phenanthrene	45.0	50.0	90	46.6	50.0	93	73-98	3	20
Phenol	43.7	50.0	87	43.8	50.0	88	59-109	0	20
Pyrene	43.1	50.0	86	44.6	50.0	89	60-113	4	20
Pyridine	38.7	50.0	77 *	37.6	50.0	75 *	44-73	3	20

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04:04 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E. 4/24/06

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	215038	40.00 mg/L	-0.02
22) Naphthalene-d8	7.25	136	839053	40.00 mg/L	-0.02
37) Acenaphthene-d10	9.49	164	456403	40.00 mg/L	-0.03
57) Phenanthrene-d10	11.34	188	741552	40.00 mg/L	-0.03
70) Chrysene-d12	15.59	240	625165	40.00 mg/L	-0.04
80) Perylene-d12	18.39	264	304431	40.00 mg/L	-0.05
System Monitoring Compounds					
6) 2-Fluorophenol	4.06	112	273931	42.50 mg/L	-0.02
Spiked Amount 50.000			Recovery =	85.00%	
7) Phenol-d5	5.20	99	367719	44.51 mg/L	-0.02
Spiked Amount 50.000			Recovery =	89.02%	
23) Nitrobenzene-d5	6.35	82	379534	50.53 mg/L	-0.02
Spiked Amount 50.000			Recovery =	101.06%	
41) 2-Fluorobiphenyl	8.64	172	647729	46.83 mg/L	-0.02
Spiked Amount 50.000			Recovery =	93.66%	
61) 2,4,6-Tribromophenol	10.49	330	110659	48.66 mg/L	-0.03
Spiked Amount 50.000			Recovery =	97.32%	
73) Terphenyl-d14	13.66	244	641701	44.94 mg/L	-0.04
Spiked Amount 50.000			Recovery =	89.88%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.43	88	116921m	40.02 mg/L	
3) N-Nitrosodimethylamine	2.74	42	157900m	54.50 mg/L	
4) Pyridine	2.74	79	301180m	38.66 mg/L	
8) Aniline	5.25	93	482908	59.35 mg/L	96
9) Phenol	5.21	94	397838	43.67 mg/L #	79
10) Bis(2-chloroethyl)ether	5.31	93	309408	43.26 mg/L	95
11) 2-Chlorophenol	5.38	128	313216	44.31 mg/L	98
12) 1,3-Dichlorobenzene	5.56	146	290970	34.42 mg/L	98
13) 1,4-Dichlorobenzene	5.62	146	297369	34.40 mg/L	98
14) Benzyl alcohol	5.81	108	202066	49.71 mg/L #	75
15) 1,2-Dichlorobenzene	5.87	146	293472	35.95 mg/L	98
17) 2-Methylphenol	5.96	108	278830	42.21 mg/L	98
18) Bis(2-chloroisopropyl)ethe	5.99	45	186617	111.21 mg/L #	45
19) N-Nitrosodi-n-propylamine	6.19	70	266320	46.17 mg/L #	69
20) Hexachloroethane	6.26	117	117919	34.23 mg/L	92
21) 3- and 4-Methylphenol Coel	6.15	107	379270	91.82 mg/L #	93
24) Nitrobenzene	6.38	77	388221	46.22 mg/L #	83
25) Isophorone	6.67	82	680339	47.93 mg/L	96
26) 2-Nitrophenol	6.79	139	175387	47.61 mg/L #	84
27) 2,4-Dimethylphenol	6.83	122	225393	37.58 mg/L	93
28) Bis(2-chloroethoxy)methane	6.96	93	377993	49.94 mg/L	98
29) 2,4-Dichlorophenol	7.08	162	256966	43.27 mg/L	99
30) 1,2,4-Trichlorobenzene	7.19	180	244386	35.70 mg/L	99
31) Benzoic acid	7.04	122	205107	45.48 mg/L #	83
32) Naphthalene	7.27	128	857738	41.79 mg/L	99
33) 4-Chloroaniline	7.37	127	358183	56.85 mg/L	95
34) Hexachlorobutadiene	7.50	225	130216	31.28 mg/L	99
35) 4-Chloro-3-methylphenol	7.98	107	269049	46.95 mg/L	91
36) 2-Methylnaphthalene	8.15	142	574534	42.09 mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04:04 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

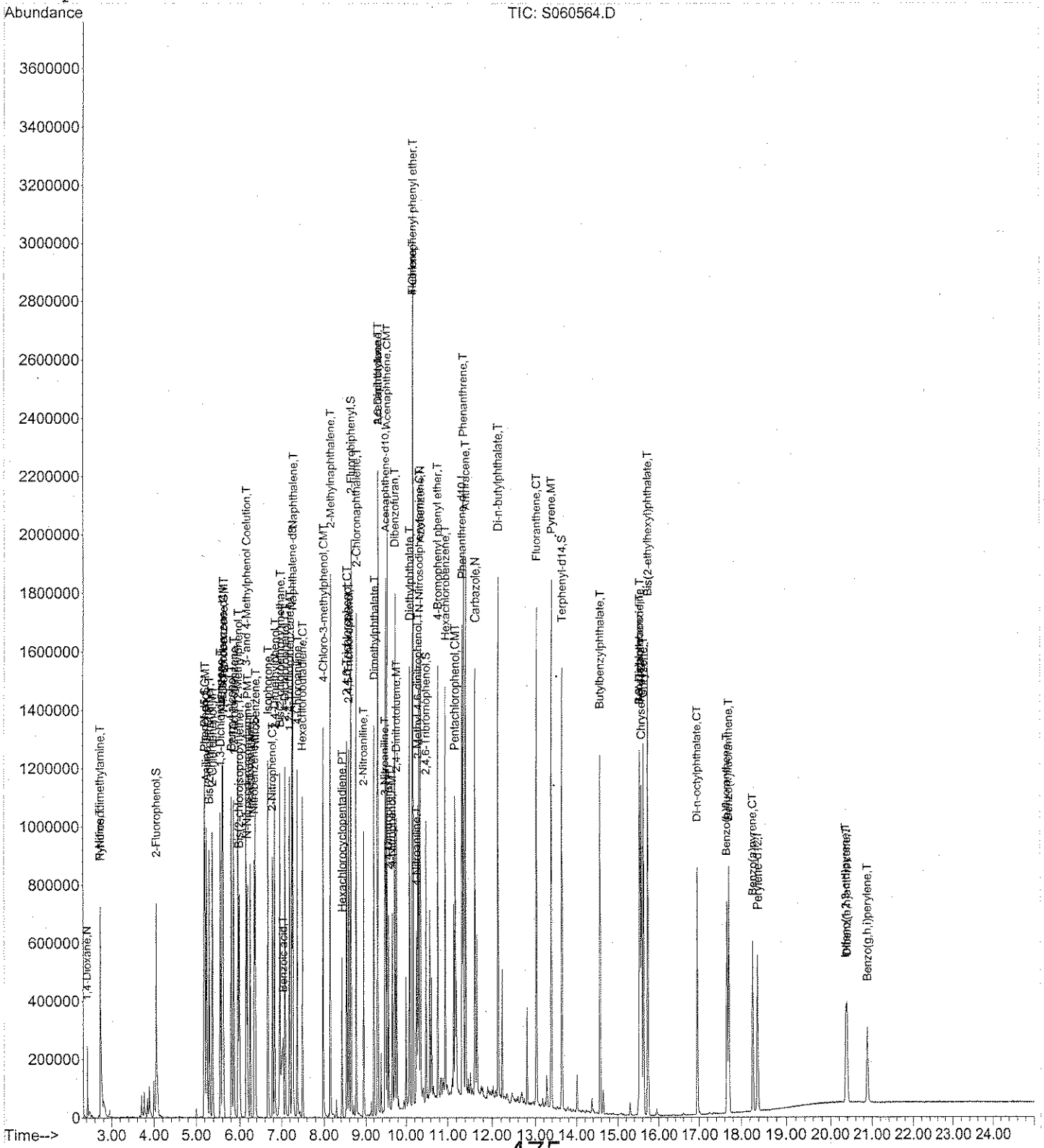
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Hexachlorocyclopentadiene	8.44	237	95107	22.78	mg/L		97
39)	2,4,6-Trichlorophenol	8.54	196	178113	42.97	mg/L		98
40)	2,4,5-Trichlorophenol	8.59	196	198664	44.01	mg/L		96
42)	2-Chloronaphthalene	8.77	162	529003	43.38	mg/L		99
43)	2-Nitroaniline	8.95	65	190688	53.31	mg/L		90
44)	Dimethylphthalate	9.21	163	604620	45.45	mg/L	#	92
45)	Acenaphthylene	9.30	152	860167	45.60	mg/L		99
46)	2,6-Dinitrotoluene	9.30	165	146147	44.55	mg/L	#	58
47)	3-Nitroaniline	9.48	138	149628	59.82	mg/L	#	84
48)	Acenaphthene	9.54	154	493503	44.06	mg/L		97
49)	2,4-Dinitrophenol	9.58	184	95392	47.36	mg/L	#	85
50)	Dibenzofuran	9.73	168	747911	43.74	mg/L		95
51)	4-Nitrophenol	9.68	109	75184	42.95	mg/L	#	65
52)	2,4-Dinitrotoluene	9.78	165	184592	46.88	mg/L	#	82
53)	Fluorene	10.17	166	595691	44.47	mg/L		98
54)	Diethylphthalate	10.09	149	601401	45.52	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.16	204	282687	41.13	mg/L		95
56)	4-Nitroaniline	10.26	138	131438	54.33	mg/L	#	79
58)	2-Methyl-4,6-dinitrophenol	10.29	198	118611	46.45	mg/L		94
59)	N-Nitrosodiphenylamine	10.32	169	368314	41.11	mg/L		98
60)	Azobenzene	10.36	77	737000	46.92	mg/L		96
62)	4-Bromophenyl phenyl ether	10.77	248	176855	43.08	mg/L		99
63)	Hexachlorobenzene	10.95	284	199258	44.83	mg/L		99
64)	Pentachlorophenol	11.18	266	130995	42.49	mg/L		99
65)	Phenanthrene	11.37	178	815613	45.02	mg/L		99
66)	Anthracene	11.43	178	808564	46.04	mg/L		99
67)	Carbazole	11.64	167	739021	53.45	mg/L		99
68)	Di-n-butylphthalate	12.14	149	1012057	48.59	mg/L	#	99
69)	Fluoranthene	13.04	202	852833	42.08	mg/L		96
72)	Pyrene	13.39	202	898524	43.10	mg/L		99
74)	Butylbenzylphthalate	14.58	149	411098	41.58	mg/L		91
75)	Benz(a)anthracene	15.55	228	718470	41.92	mg/L		98
76)	3,3'-Dichlorobenzidine	15.54	252	96467	26.30	mg/L		98
77)	Chrysene	15.64	228	674490m	41.98	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.74	149	695670	57.73	mg/L		99
81)	Di-n-octylphthalate	16.97	149	662546	35.75	mg/L		100
82)	Benzo(b)fluoranthene	17.67	252	518890m	39.49	mg/L		
83)	Benzo(k)fluoranthene	17.72	252	488521	38.75	mg/L		96
84)	Benzo(a)pyrene	18.28	252	378354	35.87	mg/L	#	94
85)	Indeno(1,2,3-c,d)pyrene	20.37	276	285492	33.10	mg/L		89
86)	Dibenz(a,h)anthracene	20.40	278	241302	36.90	mg/L	#	88
87)	Benzo(g,h,i)perylene	20.90	276	220586	32.02	mg/L	#	80

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:06 2006 Quant Results File: BA060422.RES

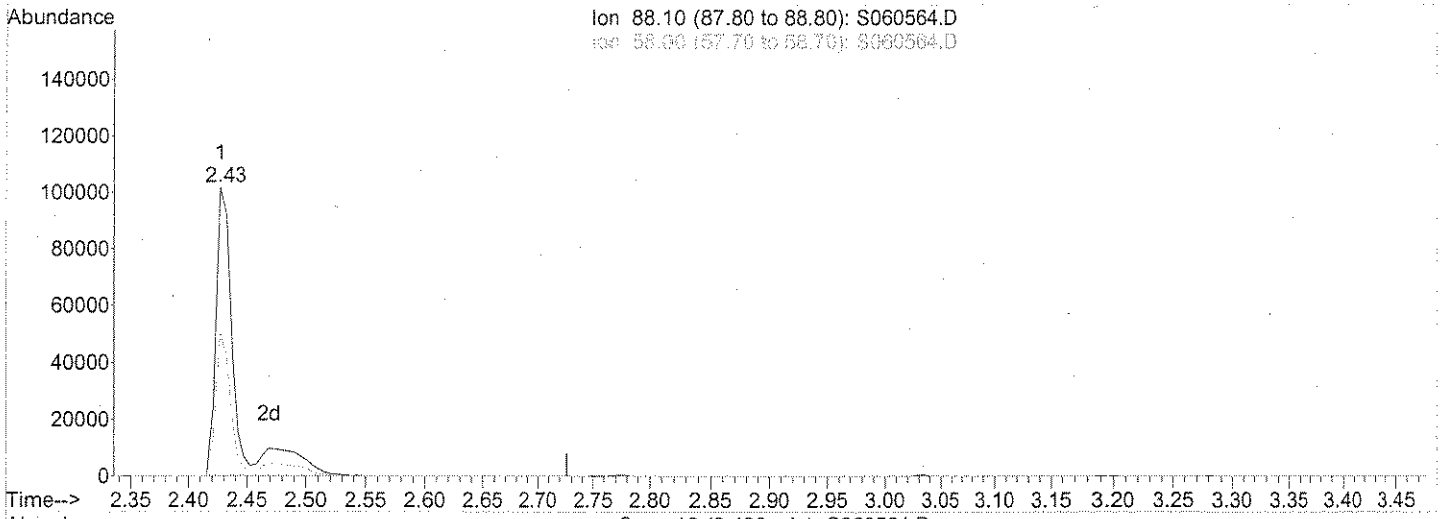
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

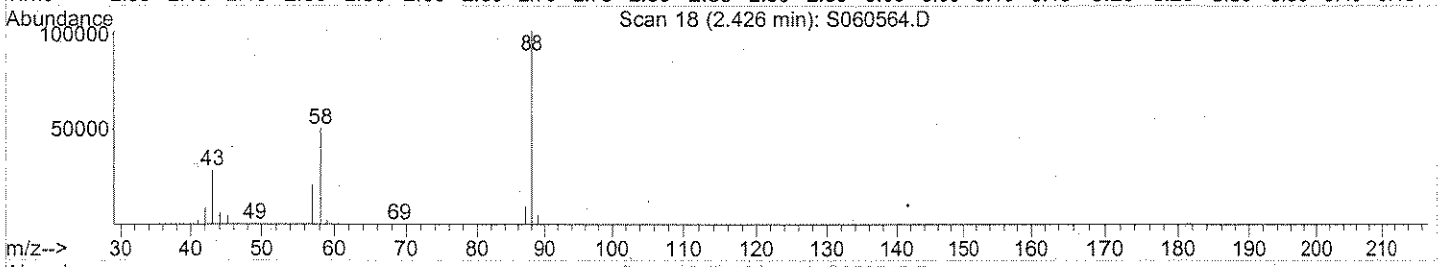


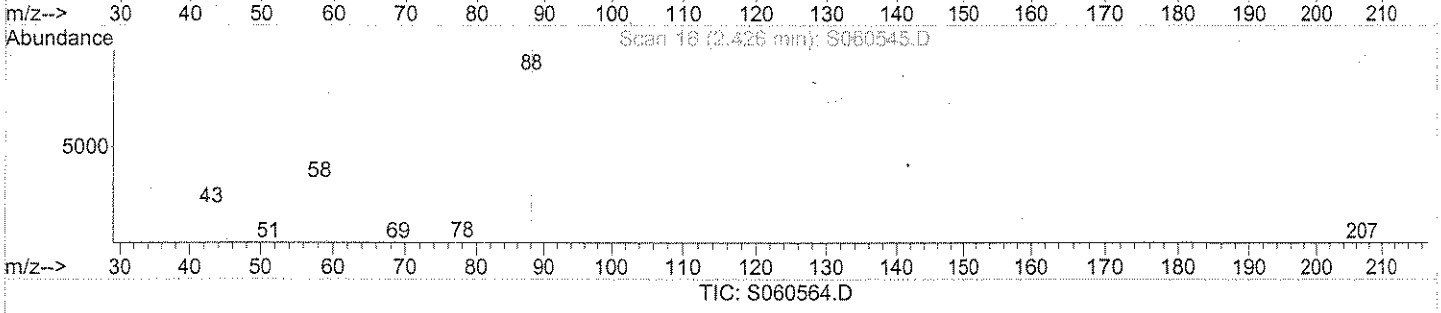
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060564.D

(2) 1,4-Dioxane (N)

2.43min 40.02mg/L m

response 116921

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	37.44#
0.00	0.00	0.00
0.00	0.00	0.00

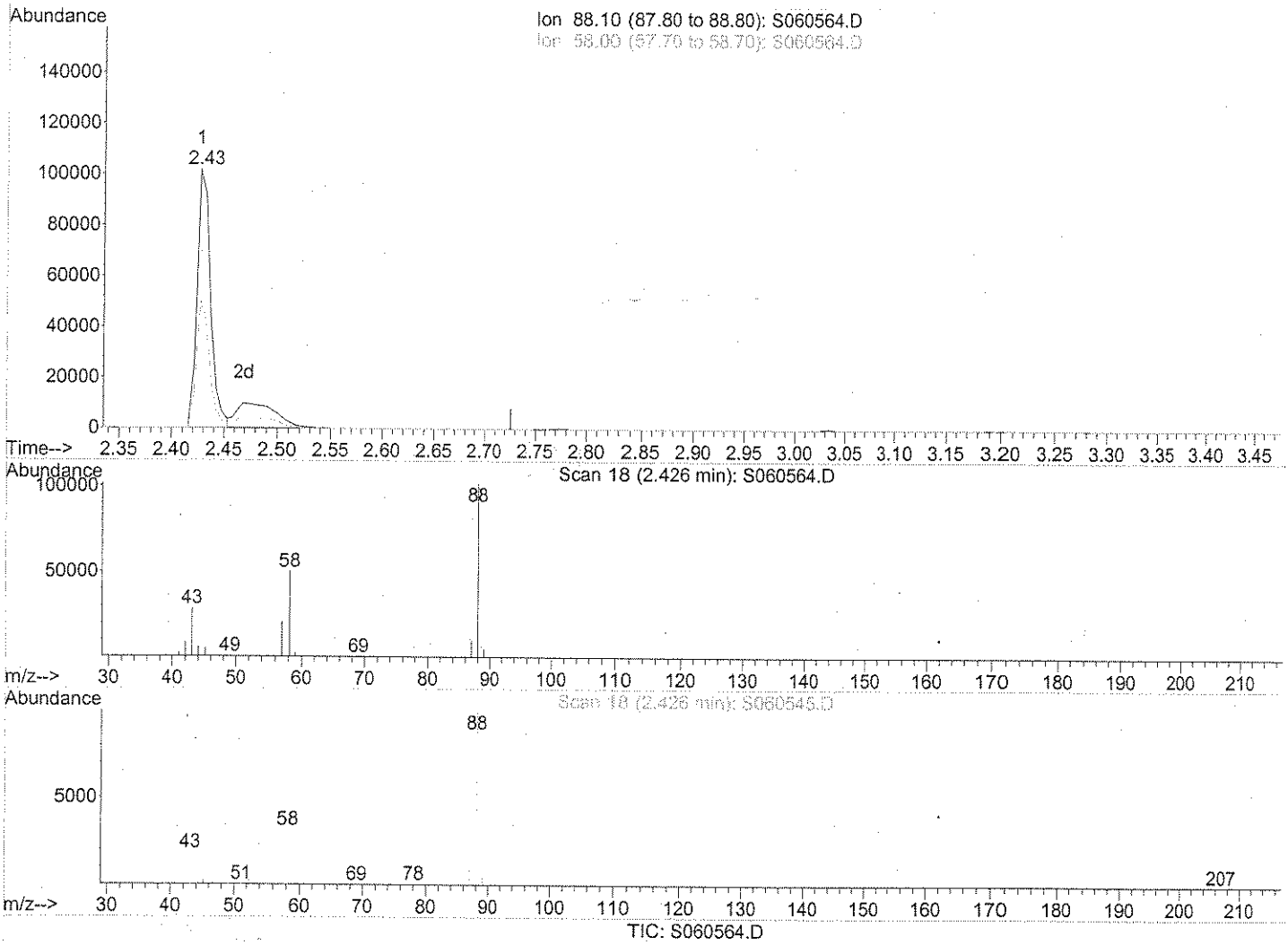
Sp 1.8 Peak
4/24/06

DT 4/28/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060564.D

(2) 1,4-Dioxane (N)

2.43min 31.52mg/L

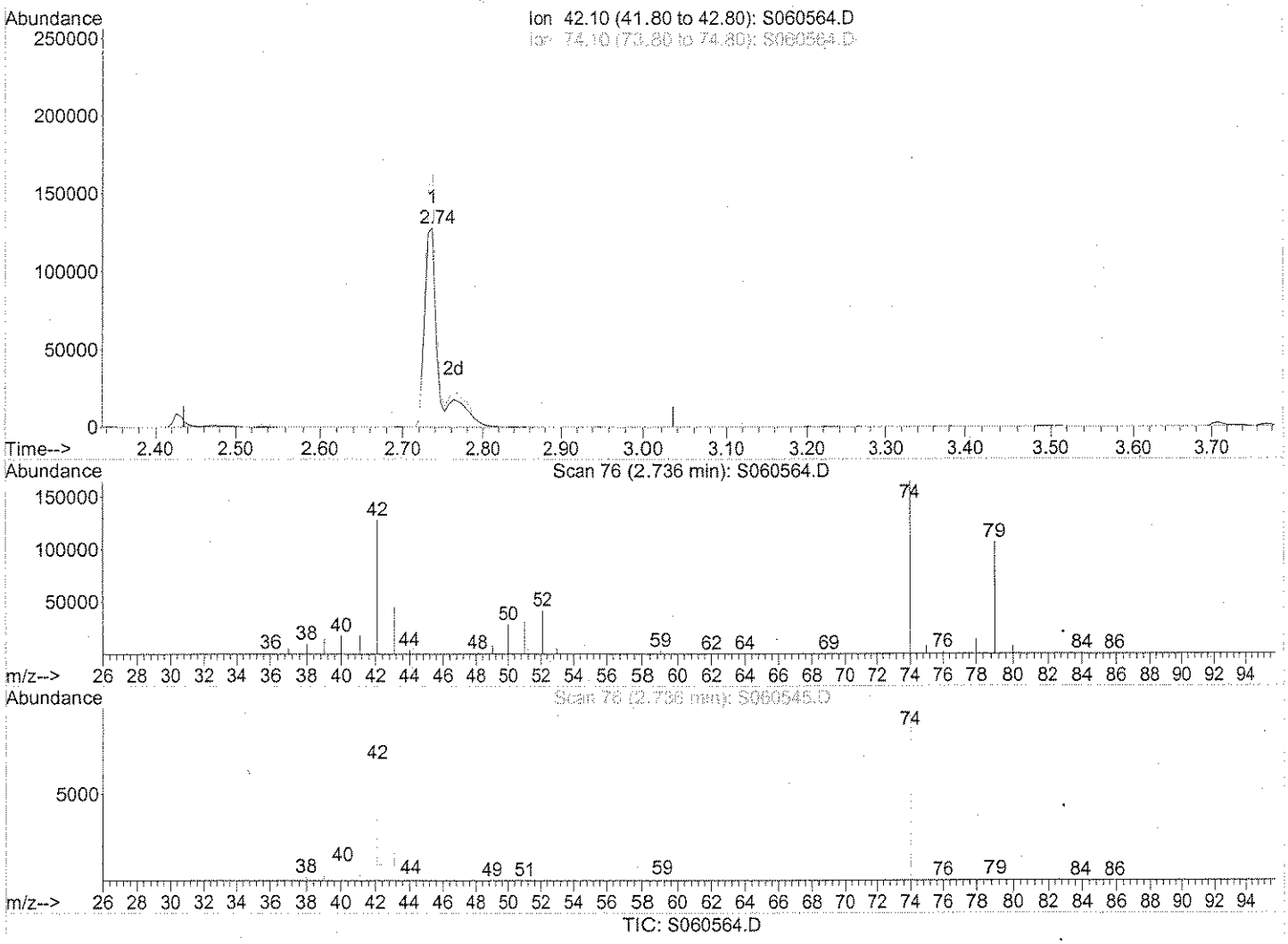
response 92084

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	47.54#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060564.D

(3) N-Nitrosodimethylamine (T)

2.74min 54.50mg/L m

response 157900

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	99.57
0.00	0.00	0.00
0.00	0.00	0.00

Spike Prep

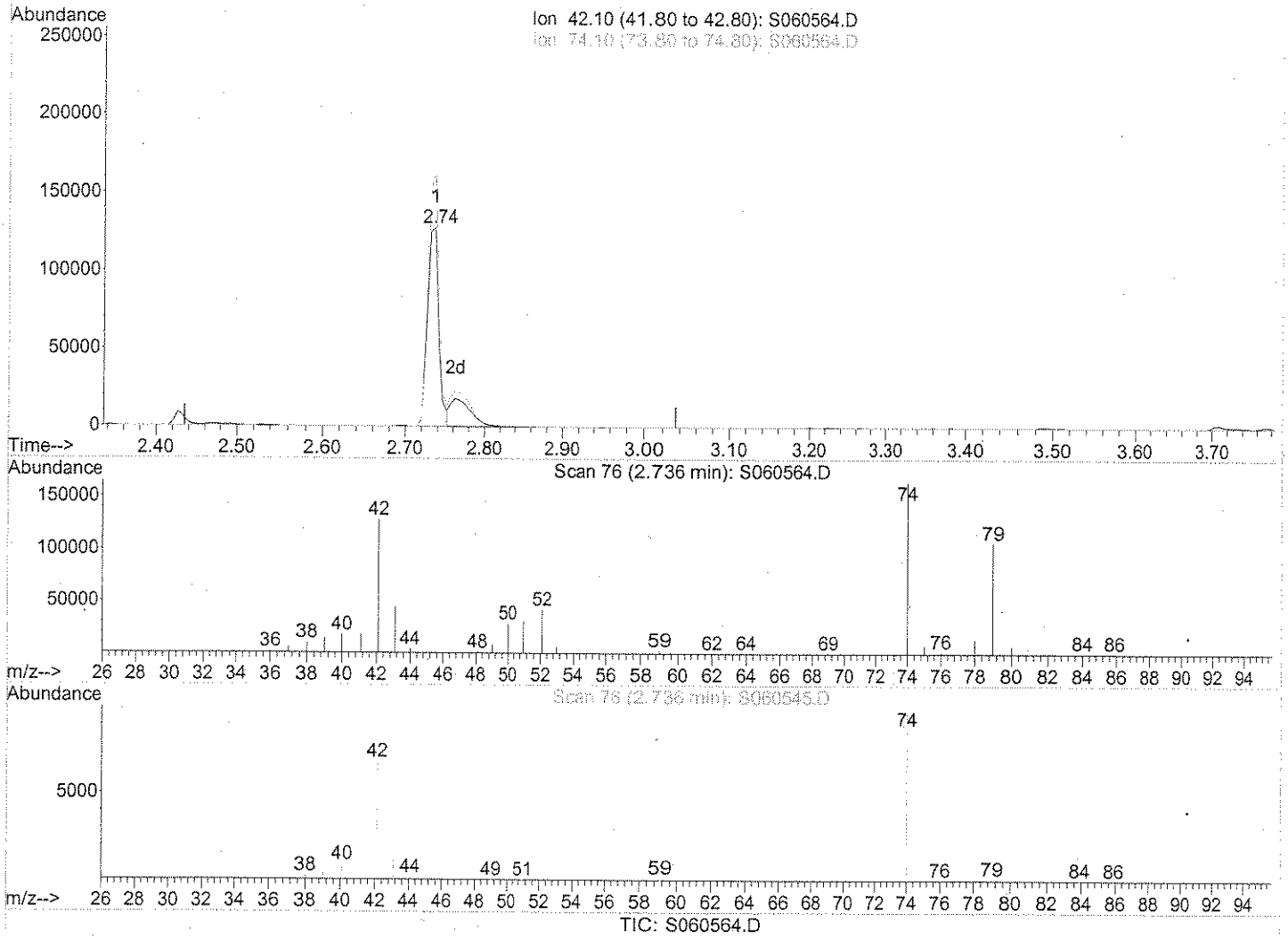
4/24/06

4/28/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(3) N-Nitrosodimethylamine (T)

2.74min 43.44mg/L

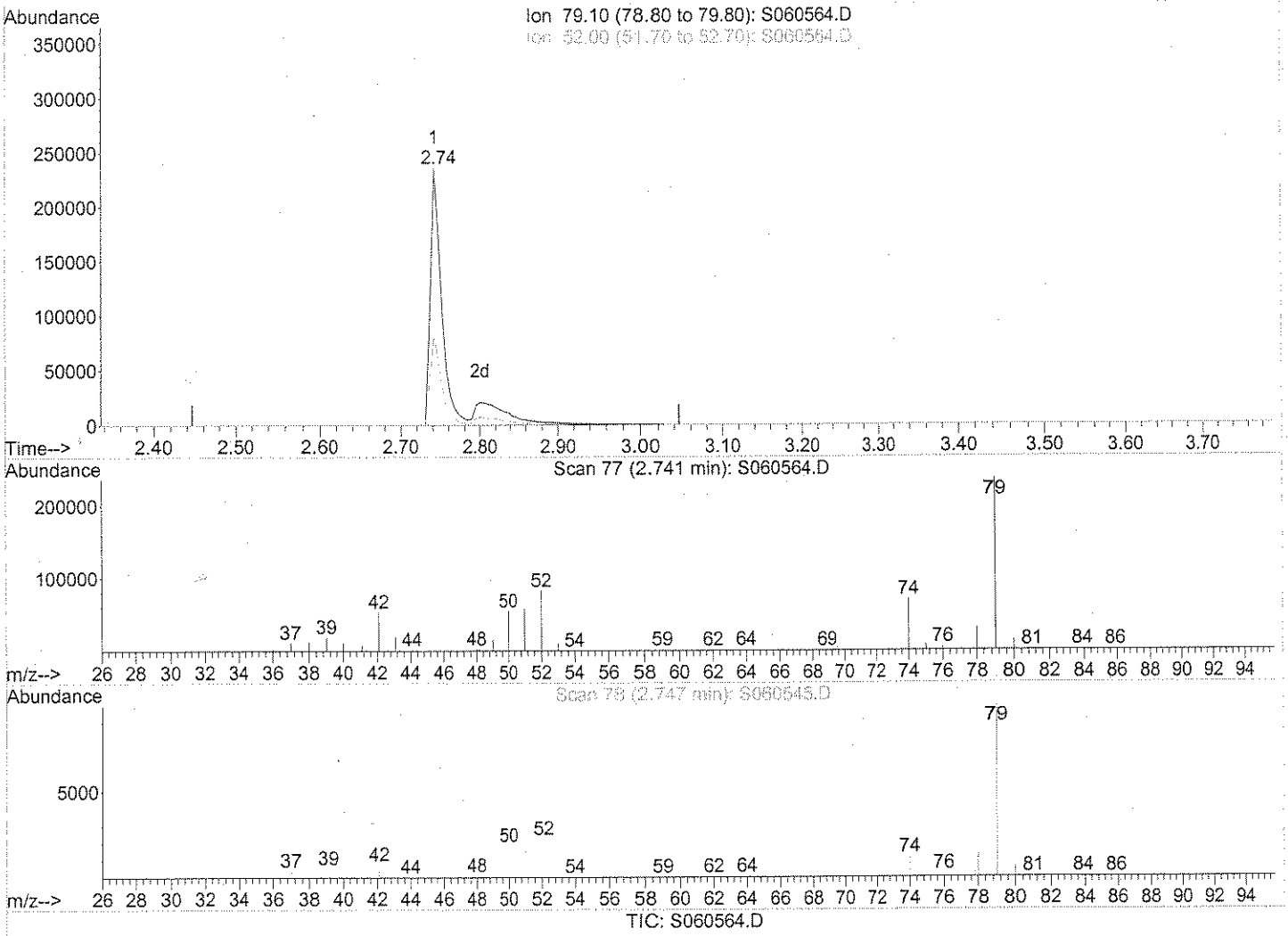
response 125864

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	124.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(4) Pyridine (T)

2.74min 38.66mg/L m

response 301180

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	27.06#
0.00	0.00	0.00
0.00	0.00	0.00

Spirit prob
4/24/06

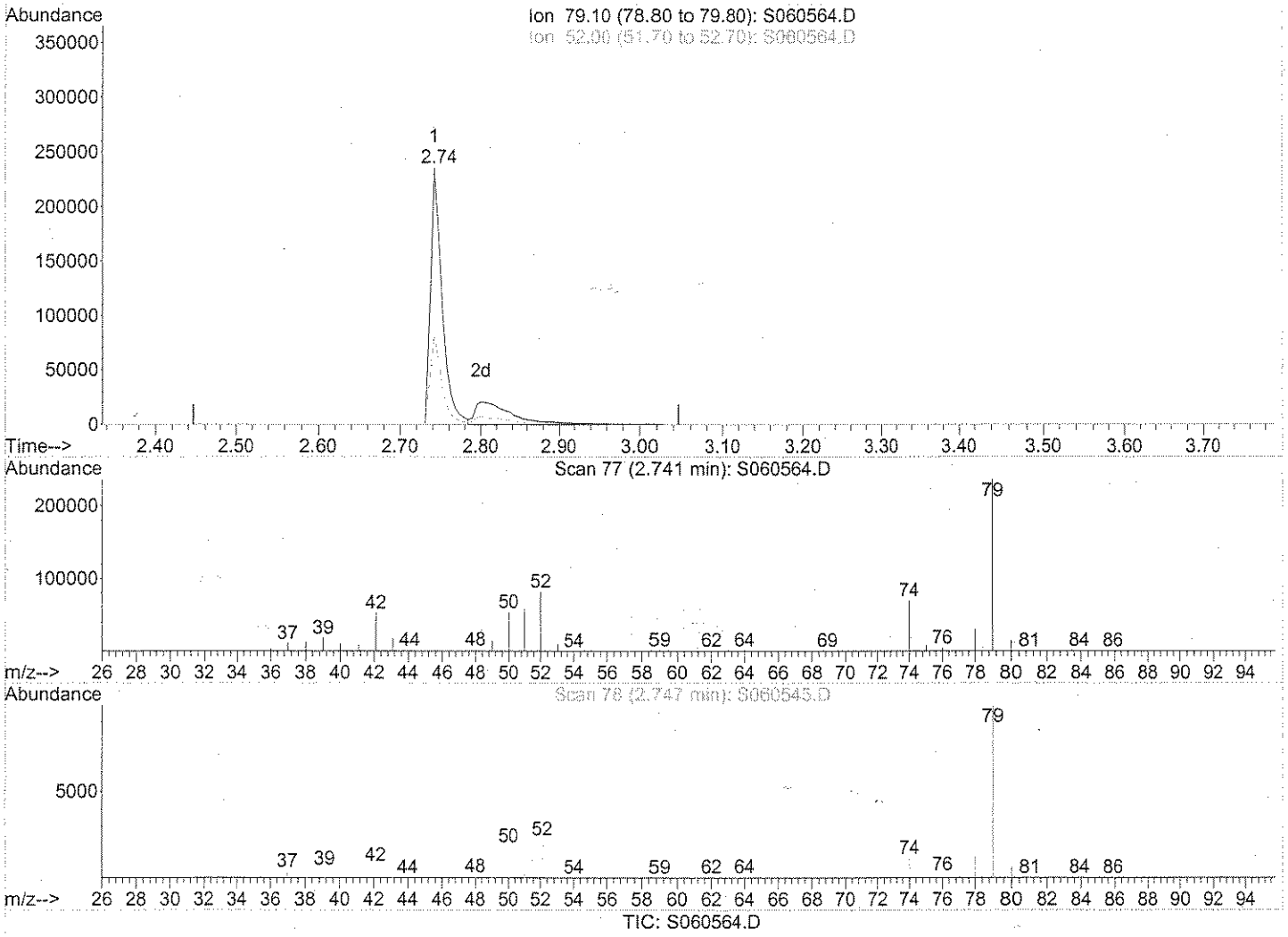
DA 4/28/06

S060564.D BA060422.M Mon Apr 24 14:04:55 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(4) Pyridine (T)

2.74min 30.20mg/L

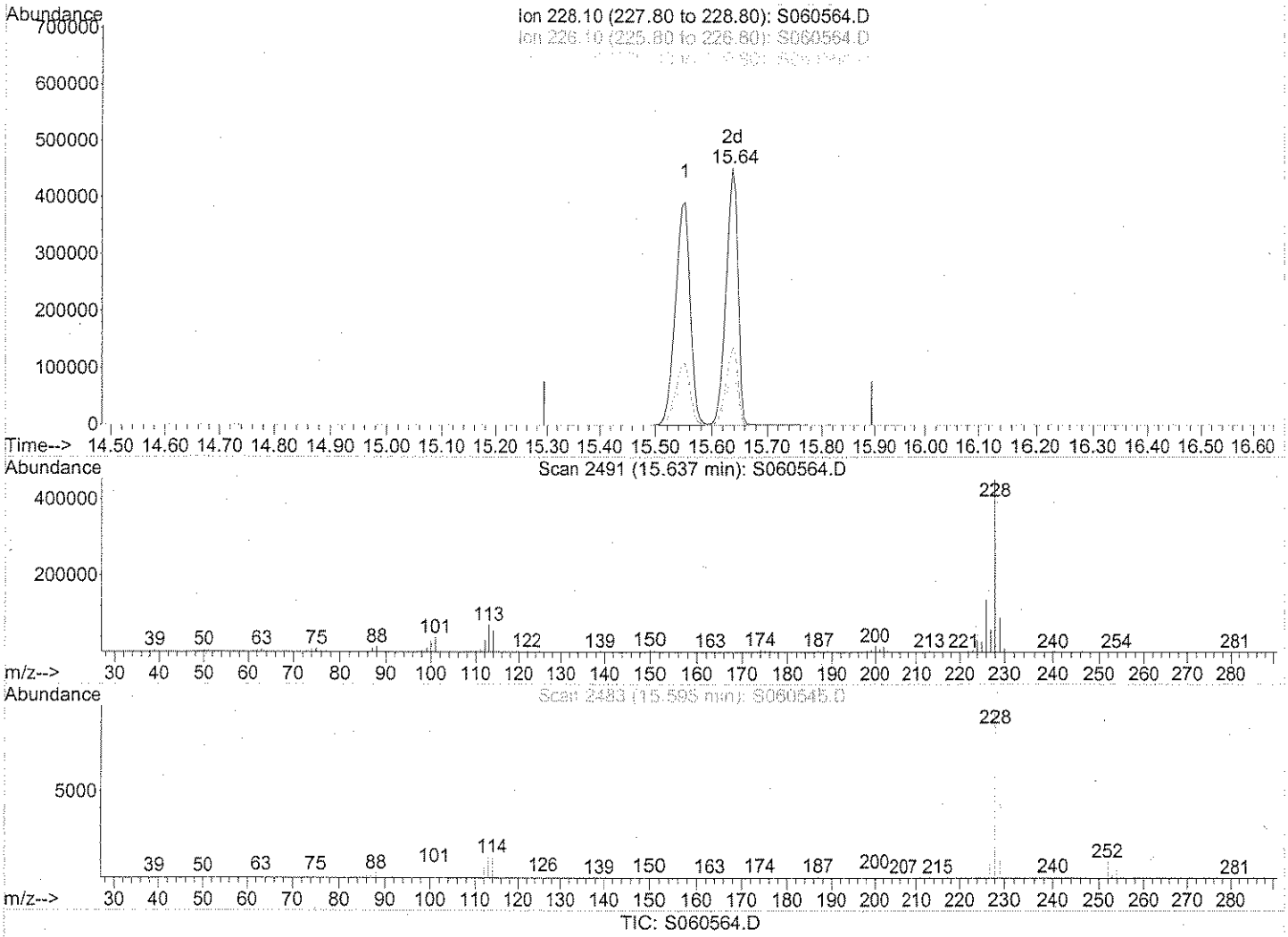
response 235267

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	34.64#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(77) Chrysene (T)

15.64min 41.98mg/L m

response 674490

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	29.65
229.10	19.40	21.22
0.00	0.00	0.00

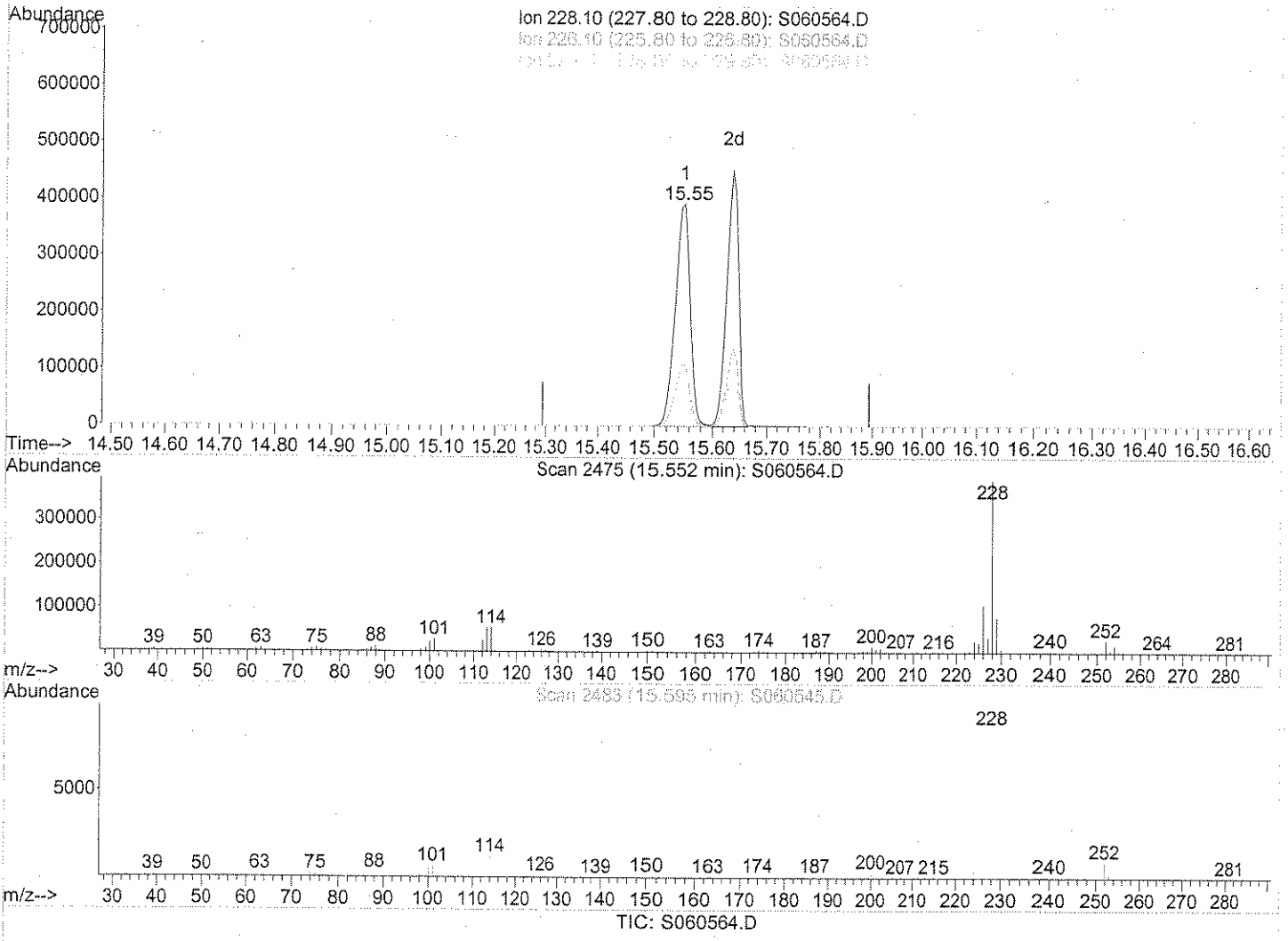
Wrong Peak
4/24/06

MH 4/25/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:05 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(77) Chrysene (T)

15.55min 44.72mg/L

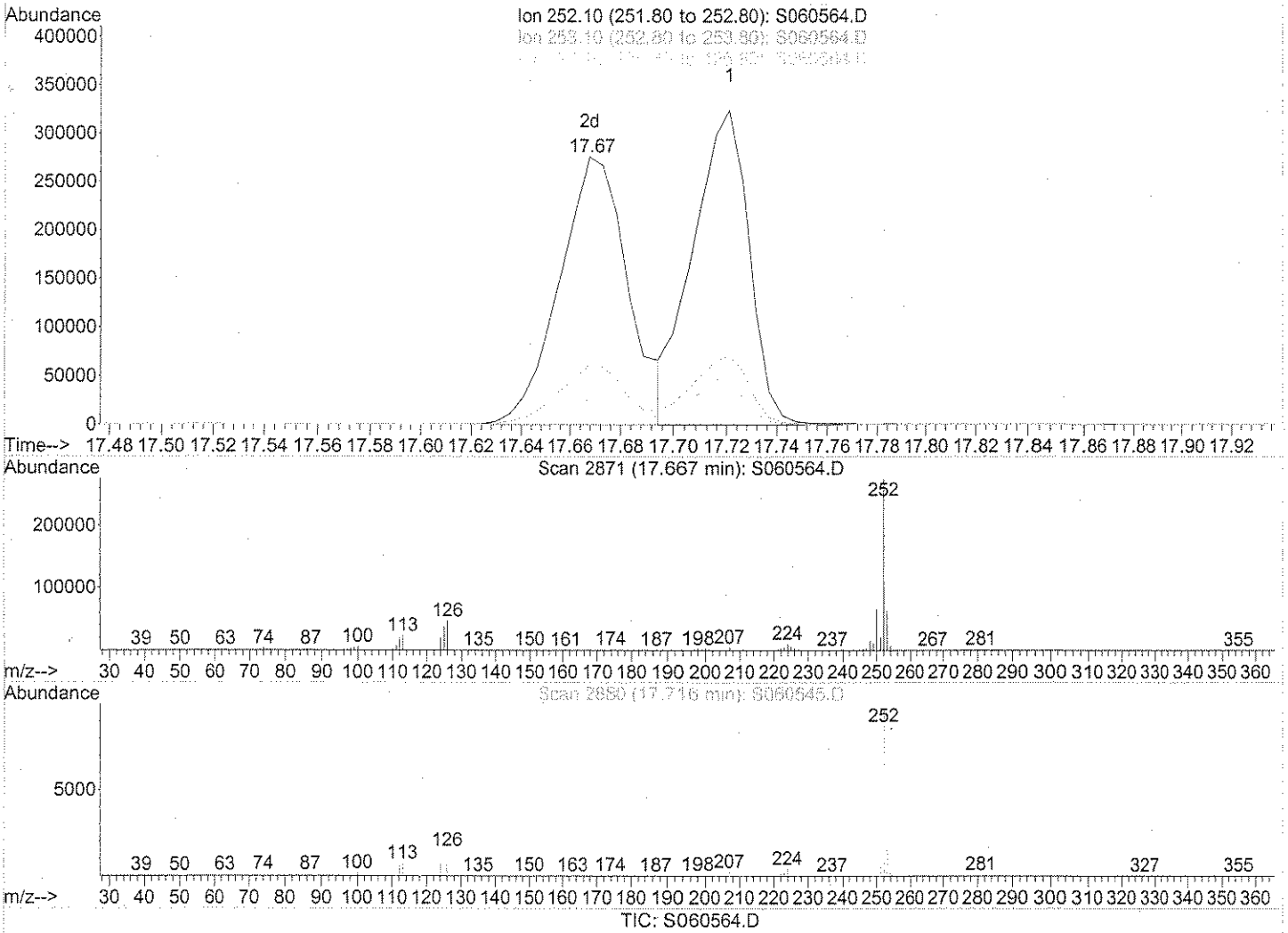
response 718470

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.83
229.10	19.40	19.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(82) Benzo(b)fluoranthene (T)

17.67min 39.49mg/L m

response 518890

Ion	Exp%	Act%
252.10	100	100
253.10	21.90	20.54
125.10	18.10	13.34#
0.00	0.00	0.00

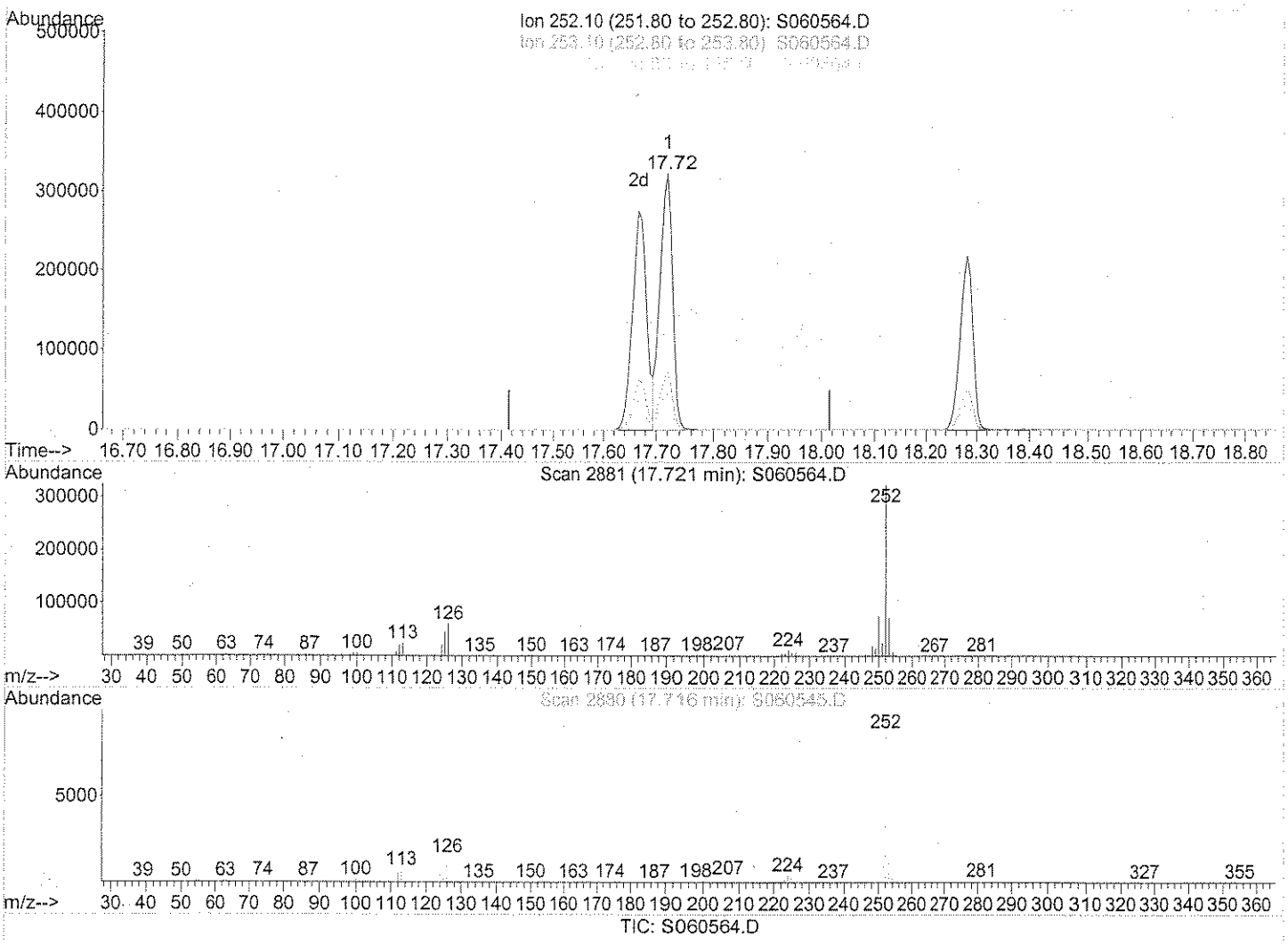
Wrong peak
S — 4/24/06

DA 4/28/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060564.D

(82) Benzo(b)fluoranthene (T)

17.72min 37.18mg/L

response 488521

Ion	Exp%	Act%
252.10	100	100
253.10	21.90	21.81
125.10	18.10	14.17#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04:04 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	215038	40.00	mg/L	-0.02
22) Naphthalene-d8	7.25	136	839053	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.49	164	456403	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	741552	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	625165	40.00	mg/L	-0.04
80) Perylene-d12	18.39	264	304431	40.00	mg/L	-0.05
System Monitoring Compounds						
6) 2-Fluorophenol	4.06	112	273931	42.50	mg/L	-0.02
Spiked Amount 50.000			Recovery = 85.00%			
7) Phenol-d5	5.20	99	367719	44.51	mg/L	-0.02
Spiked Amount 50.000			Recovery = 89.02%			
23) Nitrobenzene-d5	6.35	82	379534	50.53	mg/L	-0.02
Spiked Amount 50.000			Recovery = 101.06%			
41) 2-Fluorobiphenyl	8.64	172	647729	46.83	mg/L	-0.02
Spiked Amount 50.000			Recovery = 93.66%			
61) 2,4,6-Tribromophenol	10.49	330	110659	48.66	mg/L	-0.03
Spiked Amount 50.000			Recovery = 97.32%			
73) Terphenyl-d14	13.66	244	641701	44.94	mg/L	-0.04
Spiked Amount 50.000			Recovery = 89.88%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	92084	31.52	mg/L #	82
3) N-Nitrosodimethylamine	2.74	42	125864	43.44	mg/L	91
4) Pyridine	2.74	79	235267	30.20	mg/L #	64
5) PGMEA	4.00	43	15696	3.74	mg/L #	70
8) Aniline	5.25	93	482908	59.35	mg/L	96
9) Phenol	5.21	94	397838	43.67	mg/L #	79
10) Bis(2-chloroethyl)ether	5.31	93	309408	43.26	mg/L	95
11) 2-Chlorophenol	5.38	128	313216	44.31	mg/L	98
12) 1,3-Dichlorobenzene	5.56	146	290970	34.42	mg/L	98
13) 1,4-Dichlorobenzene	5.62	146	297369	34.40	mg/L	98
14) Benzyl alcohol	5.81	108	202066	49.71	mg/L #	75
15) 1,2-Dichlorobenzene	5.87	146	293472	35.95	mg/L	98
17) 2-Methylphenol	5.96	108	278830	42.21	mg/L	98
18) Bis(2-chloroisopropyl)ethe	5.99	45	186617	111.21	mg/L #	45
19) N-Nitrosodi-n-propylamine	6.19	70	266320	46.17	mg/L #	69
20) Hexachloroethane	6.26	117	117919	34.23	mg/L	92
21) 3- and 4-Methylphenol Coel	6.15	107	379270	91.82	mg/L #	93
24) Nitrobenzene	6.38	77	388221	46.22	mg/L #	83
25) Isophorone	6.67	82	680339	47.93	mg/L	96
26) 2-Nitrophenol	6.79	139	175387	47.61	mg/L #	84
27) 2,4-Dimethylphenol	6.83	122	225393	37.58	mg/L	93
28) Bis(2-chloroethoxy)methane	6.96	93	377993	49.94	mg/L	98
29) 2,4-Dichlorophenol	7.08	162	256966	43.27	mg/L	99
30) 1,2,4-Trichlorobenzene	7.19	180	244386	35.70	mg/L	99
31) Benzoic acid	7.04	122	205107	45.48	mg/L #	83
32) Naphthalene	7.27	128	857738	41.79	mg/L	99
33) 4-Chloroaniline	7.37	127	358183	56.85	mg/L	95
34) Hexachlorobutadiene	7.50	225	130216	31.28	mg/L	99
35) 4-Chloro-3-methylphenol	7.98	107	269049	46.95	mg/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04:04 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

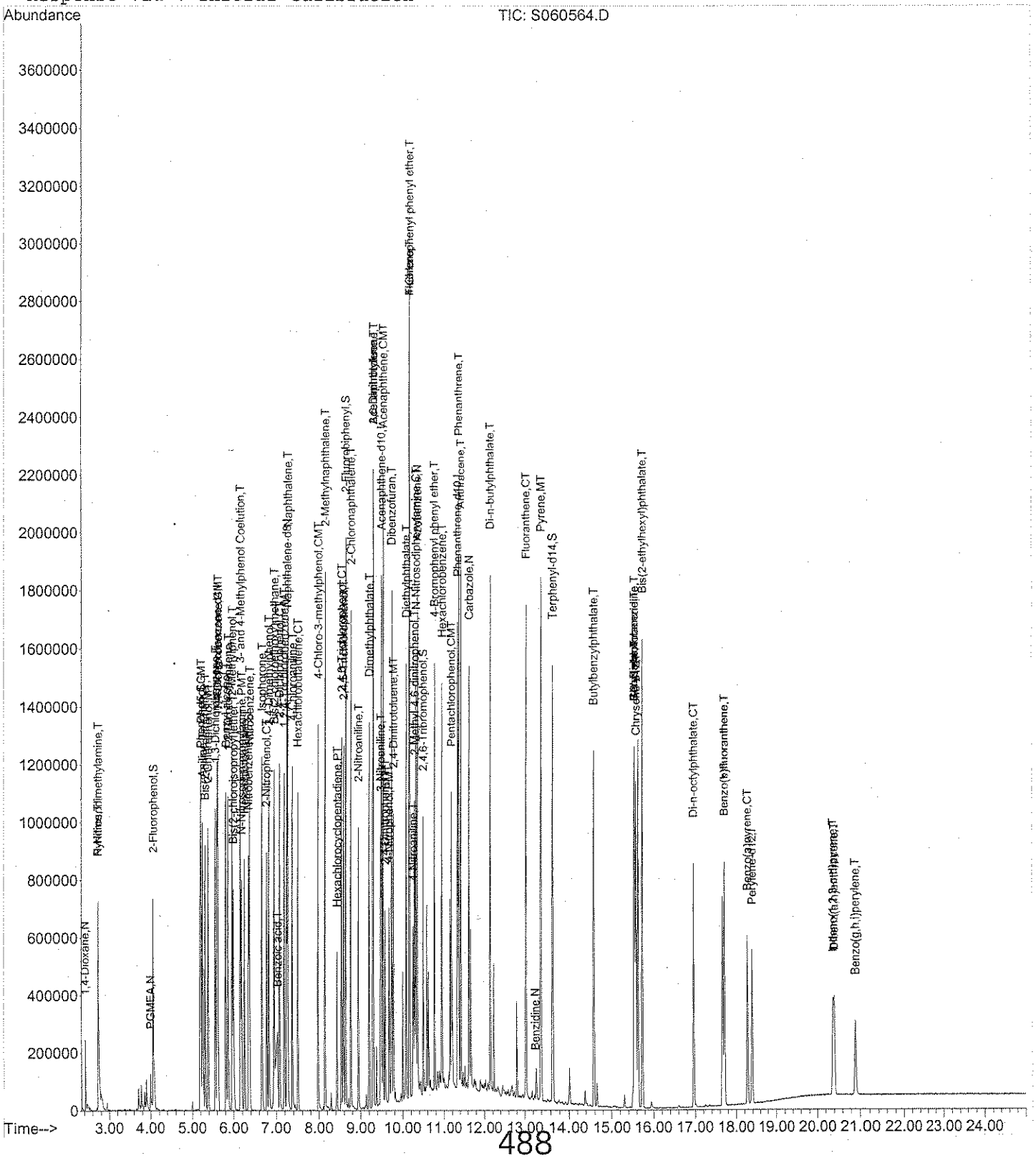
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	2-Methylnaphthalene	8.15	142	574534	42.09	mg/L		98
38)	Hexachlorocyclopentadiene	8.44	237	95107	22.78	mg/L		97
39)	2,4,6-Trichlorophenol	8.54	196	178113	42.97	mg/L		98
40)	2,4,5-Trichlorophenol	8.59	196	198664	44.01	mg/L		96
42)	2-Chloronaphthalene	8.77	162	529003	43.38	mg/L		99
43)	2-Nitroaniline	8.95	65	190688	53.31	mg/L		90
44)	Dimethylphthalate	9.21	163	604620	45.45	mg/L	#	92
45)	Acenaphthylene	9.30	152	860167	45.60	mg/L		99
46)	2,6-Dinitrotoluene	9.30	165	146147	44.55	mg/L	#	58
47)	3-Nitroaniline	9.48	138	149628	59.82	mg/L	#	84
48)	Acenaphthene	9.54	154	493503	44.06	mg/L		97
49)	2,4-Dinitrophenol	9.58	184	95392	47.36	mg/L	#	85
50)	Dibenzofuran	9.73	168	747911	43.74	mg/L		95
51)	4-Nitrophenol	9.68	109	75184	42.95	mg/L	#	65
52)	2,4-Dinitrotoluene	9.78	165	184592	46.88	mg/L	#	82
53)	Fluorene	10.17	166	595691	44.47	mg/L		98
54)	Diethylphthalate	10.09	149	601401	45.52	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.16	204	282687	41.13	mg/L		95
56)	4-Nitroaniline	10.26	138	131438	54.33	mg/L	#	79
58)	2-Methyl-4,6-dinitrophenol	10.29	198	118611	46.45	mg/L		94
59)	N-Nitrosodiphenylamine	10.32	169	368314	41.11	mg/L		98
60)	Azobenzene	10.36	77	737000	46.92	mg/L		96
62)	4-Bromophenyl phenyl ether	10.77	248	176855	43.08	mg/L		99
63)	Hexachlorobenzene	10.95	284	199258	44.83	mg/L		99
64)	Pentachlorophenol	11.18	266	130995	42.49	mg/L		99
65)	Phenanthrene	11.37	178	815613	45.02	mg/L		99
66)	Anthracene	11.43	178	808564	46.04	mg/L		99
67)	Carbazole	11.64	167	739021	53.45	mg/L		99
68)	Di-n-butylphthalate	12.14	149	1012057	48.59	mg/L	#	99
69)	Fluoranthene	13.04	202	852833	42.08	mg/L		96
71)	Benzidine	13.25	184	1128	3.31	mg/L	#	75
72)	Pyrene	13.39	202	898524	43.10	mg/L		99
74)	Butylbenzylphthalate	14.58	149	411098	41.58	mg/L		91
75)	Benz(a)anthracene	15.55	228	718470	41.92	mg/L		98
76)	3,3'-Dichlorobenzidine	15.54	252	96467	26.30	mg/L		98
77)	Chrysene	15.55	228	718470	44.72	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	15.74	149	695670	57.73	mg/L		99
81)	Di-n-octylphthalate	16.97	149	662546	35.75	mg/L		100
82)	Benzo(b)fluoranthene	17.72	252	488521	37.18	mg/L	#	96
83)	Benzo(k)fluoranthene	17.72	252	488521	38.75	mg/L		96
84)	Benzo(a)pyrene	18.28	252	378354	35.87	mg/L	#	94
85)	Indeno(1,2,3-c,d)pyrene	20.37	276	285492	33.10	mg/L		89
86)	Dibenz(a,h)anthracene	20.40	278	241302	36.90	mg/L	#	88
87)	Benzo(g,h,i)perylene	20.90	276	220586	32.02	mg/L	#	80

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060564.D Vial: 6
Acq On : 24 Apr 2006 1:38 pm Operator: SC
Sample : S0406WA1LCS Inst : MSS
Misc : S0406WA1LCS;06-04-06;06-APR-2006;1000;;1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:04 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Exception Report

Data File: C:\MSDCHEM\1\DATA\S060424\S060565.D
Lab ID: LWG0600535-2
RunType: DLCS
Matrix: WATER

Date Acquired: 04/24/2006 14:12
Date Quantitated: 04/24/2006 14:51
Batch ID: LWG0600549
Analysis Method: 8270C
MethodJoinID: MJ360

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Bis(2-chloroisopropyl) Ether	35.0	NA	30	
Continuing Calibration Recovery	Bis(2-chloroisopropyl) Ether	104.3	NA	30	
	N-Nitrosodimethylamine	45.8	NA	30	
Above Highest ICAL Level	Bis(2-chloroisopropyl) Ether	112.12	NA	100	

Primary Review: 4/25/06

Secondary Review: 4/28/06

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	04/14/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	73381	**Prep Date:**	04/06/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:			
Tune Ref:		**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060565.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 14:12	**Quant Date:**	04/24/2006 14:51	**Vial:**	7
Run Type:	DLCS			**Dilution:**	1.0
Lab ID:	LWG0600535-2			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.60	0.00?	152	199901	40.00	OK
2	Naphthalene-d8	7.25	0.01?	136	785309	40.00	OK
3	Acenaphthene-d10	9.50	0.01?	164	427098	40.00	OK
4	Phenanthrene-d10	11.34	0.00?	188	703200	40.00	OK
5	Chrysene-d12	15.59	0.00?	240	597615	40.00	OK
6	Perylene-d12	18.39	0.00?	264	297523	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.06	0.00	0.00	112	252877	42.20	84	45-101	OK	
1	Phenol-d5	5.20	0.01	0.00	99	335890	43.73	87	49-107	OK	
2	Nitrobenzene-d5	6.36	0.01	0.00	82	350076	49.80	100	58-105	OK	
3	2-Fluorobiphenyl	8.64	0.00	0.00	172	616223	47.61	95	50-101	OK	
4	2,4,6-Tribromophenol	10.49	0.00	0.00	330	107683	49.93	100	43-104	OK	
5	Terphenyl-d14	13.66	0.01	0.00	244	626927	45.93	92	34-120	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.43		0.00	88	108987m	40.13	40.1		
1	N-Nitrosodimethylamine	2.73		0.00	42	150065m	55.71	55.7		
1	Pyridine	2.74		0.00	79	271924m	37.55	37.6		
1	PGMEA				43	0d		3.5	U	
1	Aniline	5.25		0.00	93	426766	56.43	56.4		
1	Phenol	5.21		0.00	94	370468	43.75	43.8		
1	Bis(2-chloroethyl) Ether	5.31		0.00	93	289421	43.53	43.5		
1	2-Chlorophenol	5.39	0.01	0.00	128	293692	44.69	44.7		
1	1,3-Dichlorobenzene	5.56		0.00	146	273038	34.74	34.7		
1	1,4-Dichlorobenzene	5.63	0.01	0.00	146	276524	34.41	34.4		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060565.D		**Instrument:** MSS
Acqu Date:	04/24/2006 14:12	**Quant Date:** 04/24/2006 14:51	**Vial:** 7
Run Type:	DLCS		**Dilution:** 1.0
Lab ID:	LWG0600535-2		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	5.81		0.00	108	187619	49.65	49.7		
1	1,2-Dichlorobenzene	5.87		0.00	146	276298	36.41	36.4		
1	1-Methyl-2-pyrrolidinone				99	0d		5.3	U	
1	2-Methylphenol	5.97	-0.01	0.00	108	262868	42.81	42.8		
1	Bis(2-chloroisopropyl) Ether	6.00	0.01	0.00	45	174905	112.12	112	E	
1	N-Nitrosodi-n-propylamine	6.19	0.01	0.00	70	251746	46.94	46.9		
1	Hexachloroethane	6.26		0.00	117	108785	33.97	34.0		
1	3- and 4-Methylphenol Coelutio	6.16		0.00	107	352948	91.91	91.9		
2	Nitrobenzene	6.38	0.01	0.00	77	367750	46.78	46.8		
2	Isophorone	6.67	0.01	0.00	82	650420	48.96	49.0		
2	2-Nitrophenol	6.79	0.01	0.00	139	165673	48.05	48.1		
2	2,4-Dimethylphenol	6.84	0.01	0.00	122	220886	39.35	39.4		
2	bis(2-Chloroethoxy)methane	6.96	0.01	0.00	93	364473	51.45	51.5		
2	2,4-Dichlorophenol	7.08		0.00	162	243265	43.77	43.8		
2	1,2,4-Trichlorobenzene	7.19		0.00	180	231912	36.20	36.2		
2	Benzoic acid	7.04	0.03	0.00	122	198149	46.85	46.9	J	
2	Naphthalene	7.28	0.01	0.00	128	810741	42.20	42.2		
2	4-Chloroaniline	7.38	0.01	0.00	127	339228	57.53	57.5		
2	Hexachlorobutadiene	7.50		0.00	225	122114	31.34	31.3		
2	4-Chloro-3-methylphenol	7.99	0.01	0.00	107	256126	47.75	47.8		
2	2-Methylnaphthalene	8.15		0.00	142	541808	42.41	42.4		
3	Hexachlorocyclopentadiene	8.44		0.00	237	90925	23.27	23.3		
3	2,4,6-Trichlorophenol	8.54		0.00	196	174439	44.97	45.0		
3	2,4,5-Trichlorophenol	8.59		0.00	196	191144	45.25	45.3		
3	2-Chloronaphthalene	8.77		0.00	162	510527	44.74	44.7		
3	2-Nitroaniline	8.95	0.01	0.00	65	185078	55.29	55.3		
3	Dimethyl Phthalate	9.21		0.00	163	588017	47.23	47.2		
3	Acenaphthylene	9.31	0.01	0.00	152	842065	47.70	47.7		
3	2,6-Dinitrotoluene	9.30	0.01	0.00	165	141310	46.04	46.0		
3	3-Nitroaniline	9.48	0.01	0.00	138	146727	62.68	62.7		
3	Acenaphthene	9.54		0.00	154	477404	45.54	45.5		
3	2,4-Dinitrophenol	9.59	0.01	0.00	184	93408	49.56	49.6	J	
3	Dibenzofuran	9.74	0.01	0.00	168	733115	45.81	45.8		
3	4-Nitrophenol	9.68		0.00	109	72346	44.16	44.2	J	
3	2,4-Dinitrotoluene	9.78		0.00	165	179262	48.65	48.7		
3	Fluorene	10.17		0.00	166	592794	47.30	47.3		
3	Diethyl Phthalate	10.09	0.01	0.00	149	597009	48.28	48.3		
3	4-Chlorophenyl Phenyl Ether	10.16		0.00	204	281520	43.77	43.8		
3	4-Nitroaniline	10.26	0.01	0.00	138	131316	58.00	58.0		
4	2-Methyl-4,6-dinitrophenol	10.30	0.02	0.00	198	119892	49.52	49.5		
4	N-Nitrosodiphenylamine	10.33	0.01	0.00	169	367806	43.30	43.3		
4	Azobenzene	10.36	0.01	0.00	77	739126	49.62	49.6		
4	4-Bromophenyl Phenyl Ether	10.77		0.00	248	174489	44.82	44.8		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060565.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 14:12	**Quant Date:**	04/24/2006 14:51	**Vial:**	7
Run Type:	DLCS			**Dilution:**	1.0
Lab ID:	LWG0600535-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	10.96	0.01	0.00	284	199698	47.38	47.4		
4	Pentachlorophenol	11.18		0.00	266	130612	44.67	44.7		
4	Phenanthrene	11.37	0.01	0.00	178	799811	46.56	46.6		
4	Anthracene	11.43	0.01	0.00	178	789790	47.42	47.4		
4	Carbazole	11.64	0.01	0.00	167	731739	55.81	55.8		
4	Di-n-butyl Phthalate	12.15	0.01	0.00	149	992232	50.24	50.2		
4	Fluoranthene	13.04	0.01	0.00	202	843223	43.87	43.9		
5	Pyrene	13.40	0.01	0.00	202	889509	44.64	44.6		
5	Butyl Benzyl Phthalate	14.58		0.00	149	406584	42.95	43.0		
5	Benz(a)anthracene	15.55		0.00	228	721345	44.02	44.0		
5	3,3'-Dichlorobenzidine	15.54		0.00	252	126754	35.57	35.6		
5	Chrysene	15.64	0.01	0.00	228	676326**m**	44.04	44.0		
5	Bis(2-ethylhexyl) Phthalate	15.74		0.00	149	506328	43.95	44.0		
5	Mirex				272	0		0	U	
6	Di-n-octyl Phthalate	16.97	0.01	0.00	149	674665	37.25	37.3		
6	Benzo(b)fluoranthene	17.68	0.01	0.00	252	521969**m**	40.65	40.7		
6	Benzo(k)fluoranthene	17.73	0.01	0.00	252	487906	39.60	39.6		
6	Benzo(a)pyrene	18.29	0.01	0.00	252	379363	36.80	36.8		
6	Indeno(1,2,3-cd)pyrene	20.38	0.01	0.00	276	284217	33.72	33.7		
6	Dibenz(a,h)anthracene	20.41	0.01	0.00	278	240364	37.61	37.6		
6	Benzo(g,h,i)perylene	20.90		0.00	276	218544	32.46	32.5		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:48:26 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E 4/24/06

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	199901	40.00 mg/L	-0.02
22) Naphthalene-d8	7.25	136	785309	40.00 mg/L	-0.02
37) Acenaphthene-d10	9.50	164	427098	40.00 mg/L	-0.03
57) Phenanthrene-d10	11.34	188	703200	40.00 mg/L	-0.03
70) Chrysene-d12	15.59	240	597615	40.00 mg/L	-0.04
80) Perylene-d12	18.39	264	297523	40.00 mg/L	-0.04
System Monitoring Compounds					
6) 2-Fluorophenol	4.06	112	252877	42.20 mg/L	-0.02
Spiked Amount 50.000			Recovery = 84.40%		
7) Phenol-d5	5.20	99	335890	43.73 mg/L	-0.02
Spiked Amount 50.000			Recovery = 87.46%		
23) Nitrobenzene-d5	6.36	82	350076	49.80 mg/L	-0.02
Spiked Amount 50.000			Recovery = 99.60%		
41) 2-Fluorobiphenyl	8.64	172	616223	47.61 mg/L	-0.02
Spiked Amount 50.000			Recovery = 95.22%		
61) 2,4,6-Tribromophenol	10.49	330	107683	49.93 mg/L	-0.03
Spiked Amount 50.000			Recovery = 99.86%		
73) Terphenyl-d14	13.66	244	626927	45.93 mg/L	-0.03
Spiked Amount 50.000			Recovery = 91.86%		
Target Compounds					Qvalue
2) 1,4-Dioxane	2.43	88	108987m	40.13 mg/L	
3) N-Nitrosodimethylamine	2.73	42	150065m	55.71 mg/L	
4) Pyridine	2.74	79	271924m	37.55 mg/L	
8) Aniline	5.25	93	426766	56.43 mg/L	95
9) Phenol	5.21	94	370468	43.75 mg/L #	79
10) Bis(2-chloroethyl)ether	5.31	93	289421	43.53 mg/L	95
11) 2-Chlorophenol	5.39	128	293692	44.69 mg/L	98
12) 1,3-Dichlorobenzene	5.56	146	273038	34.74 mg/L	98
13) 1,4-Dichlorobenzene	5.63	146	276524	34.41 mg/L	98
14) Benzyl alcohol	5.81	108	187619	49.65 mg/L #	73
15) 1,2-Dichlorobenzene	5.87	146	276298	36.41 mg/L	98
17) 2-Methylphenol	5.97	108	262868	42.81 mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.00	45	174905	112.12 mg/L #	43
19) N-Nitrosodi-n-propylamine	6.19	70	251746	46.94 mg/L #	68
20) Hexachloroethane	6.26	117	108785	33.97 mg/L	92
21) 3- and 4-Methylphenol Coel	6.16	107	352948	91.91 mg/L #	94
24) Nitrobenzene	6.38	77	367750	46.78 mg/L #	82
25) Isophorone	6.67	82	650420	48.96 mg/L	96
26) 2-Nitrophenol	6.79	139	165673	48.05 mg/L #	84
27) 2,4-Dimethylphenol	6.84	122	220886	39.35 mg/L	92
28) Bis(2-chloroethoxy)methane	6.96	93	364473	51.45 mg/L	98
29) 2,4-Dichlorophenol	7.08	162	243265	43.77 mg/L	98
30) 1,2,4-Trichlorobenzene	7.19	180	231912	36.20 mg/L	100
31) Benzoic acid	7.04	122	198149	46.85 mg/L #	81
32) Naphthalene	7.28	128	810741	42.20 mg/L	99
33) 4-Chloroaniline	7.38	127	339228	57.53 mg/L	95
34) Hexachlorobutadiene	7.50	225	122114	31.34 mg/L	99
35) 4-Chloro-3-methylphenol	7.99	107	256126	47.75 mg/L	91
36) 2-Methylnaphthalene	8.15	142	541808	42.41 mg/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:48:26 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

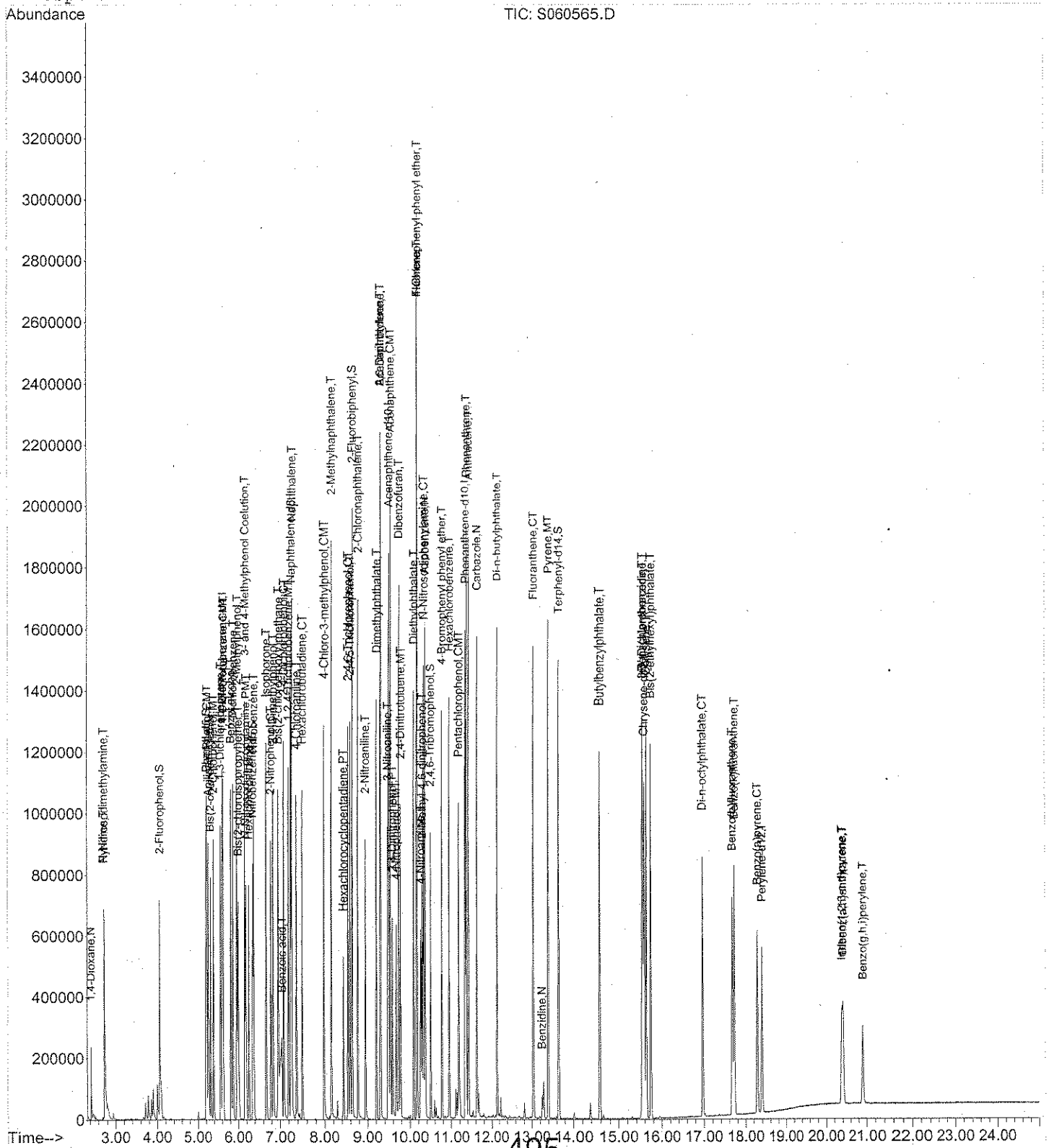
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Hexachlorocyclopentadiene	8.44	237	90925	23.27	mg/L		98
39)	2,4,6-Trichlorophenol	8.54	196	174439	44.97	mg/L		99
40)	2,4,5-Trichlorophenol	8.59	196	191144	45.25	mg/L		95
42)	2-Chloronaphthalene	8.77	162	510527	44.74	mg/L		99
43)	2-Nitroaniline	8.95	65	185078	55.29	mg/L		90
44)	Dimethylphthalate	9.21	163	588017	47.23	mg/L	#	92
45)	Acenaphthylene	9.31	152	842065	47.70	mg/L		99
46)	2,6-Dinitrotoluene	9.30	165	141310	46.04	mg/L	#	55
47)	3-Nitroaniline	9.48	138	146727	62.68	mg/L	#	85
48)	Acenaphthene	9.54	154	477404	45.54	mg/L		98
49)	2,4-Dinitrophenol	9.59	184	93408	49.56	mg/L	#	83
50)	Dibenzofuran	9.74	168	733115	45.81	mg/L		95
51)	4-Nitrophenol	9.68	109	72346	44.16	mg/L	#	66
52)	2,4-Dinitrotoluene	9.78	165	179262	48.65	mg/L	#	80
53)	Fluorene	10.17	166	592794	47.30	mg/L		98
54)	Diethylphthalate	10.09	149	597009	48.28	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.16	204	281520	43.77	mg/L		95
56)	4-Nitroaniline	10.26	138	131316	58.00	mg/L	#	78
58)	2-Methyl-4,6-dinitrophenol	10.30	198	119892	49.52	mg/L		94
59)	N-Nitrosodiphenylamine	10.33	169	367806	43.30	mg/L		98
60)	Azobenzene	10.36	77	739126	49.62	mg/L		95
62)	4-Bromophenyl phenyl ether	10.77	248	174489	44.82	mg/L		99
63)	Hexachlorobenzene	10.96	284	199698	47.38	mg/L		99
64)	Pentachlorophenol	11.18	266	130612	44.67	mg/L		99
65)	Phenanthrene	11.37	178	799811	46.56	mg/L		99
66)	Anthracene	11.43	178	789790	47.42	mg/L		99
67)	Carbazole	11.64	167	731739	55.81	mg/L		99
68)	Di-n-butylphthalate	12.15	149	992232	50.24	mg/L	#	99
69)	Fluoranthene	13.04	202	843223	43.87	mg/L		96
71)	Benzidine	13.24	184	39265	120.38	mg/L	#	94
72)	Pyrene	13.40	202	889509	44.64	mg/L		100
74)	Butylbenzylphthalate	14.58	149	406584	42.95	mg/L		90
75)	Benz(a)anthracene	15.55	228	721345	44.02	mg/L		99
76)	3,3'-Dichlorobenzidine	15.54	252	126754	35.57	mg/L		99
77)	Chrysene	15.64	228	676326m	44.04	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.74	149	506328	43.95	mg/L		99
81)	Di-n-octylphthalate	16.97	149	674665	37.25	mg/L		100
82)	Benzo(b)fluoranthene	17.68	252	521969m	40.65	mg/L		
83)	Benzo(k)fluoranthene	17.73	252	487906	39.60	mg/L		96
84)	Benzo(a)pyrene	18.29	252	379363	36.80	mg/L	#	94
85)	Indeno(1,2,3-c,d)pyrene	20.38	276	284217	33.72	mg/L		89
86)	Dibenz(a,h)anthracene	20.41	278	240364	37.61	mg/L	#	87
87)	Benzo(g,h,i)perylene	20.90	276	218544	32.46	mg/L	#	80

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:51 2006 Quant Results File: BA060422.RES

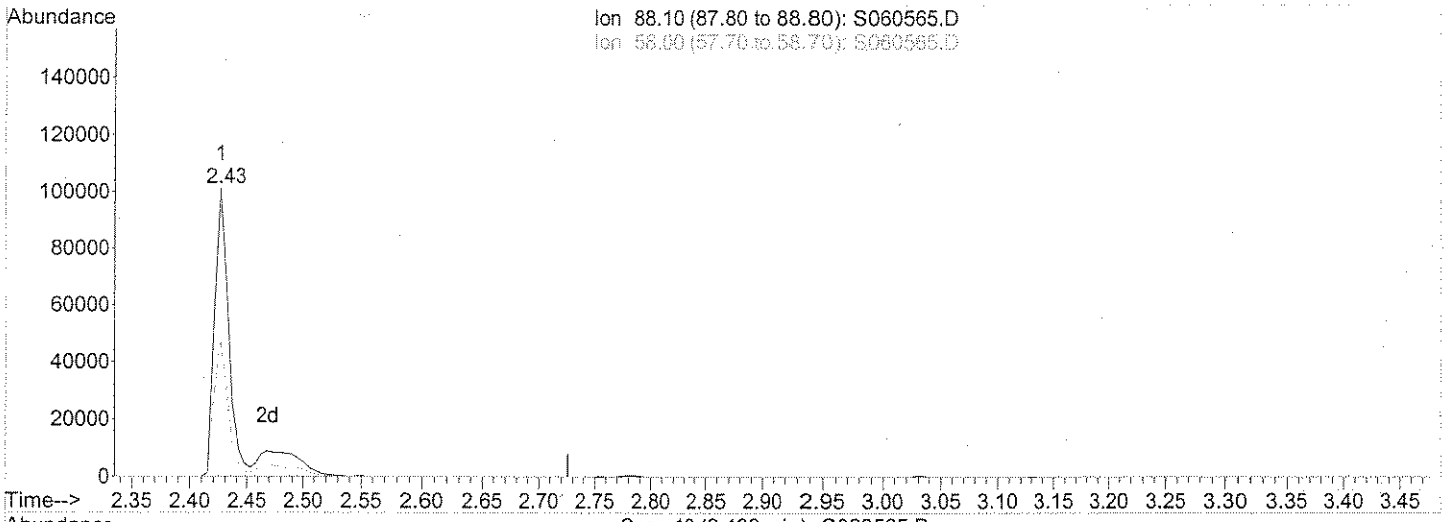
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

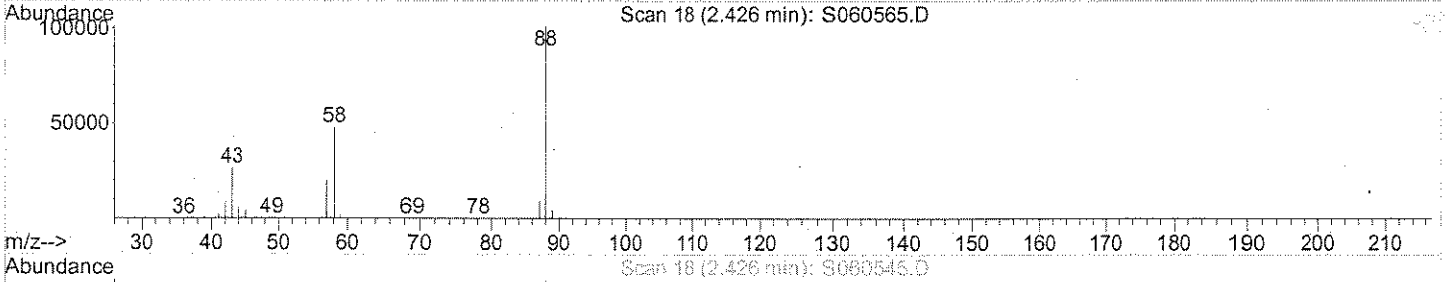


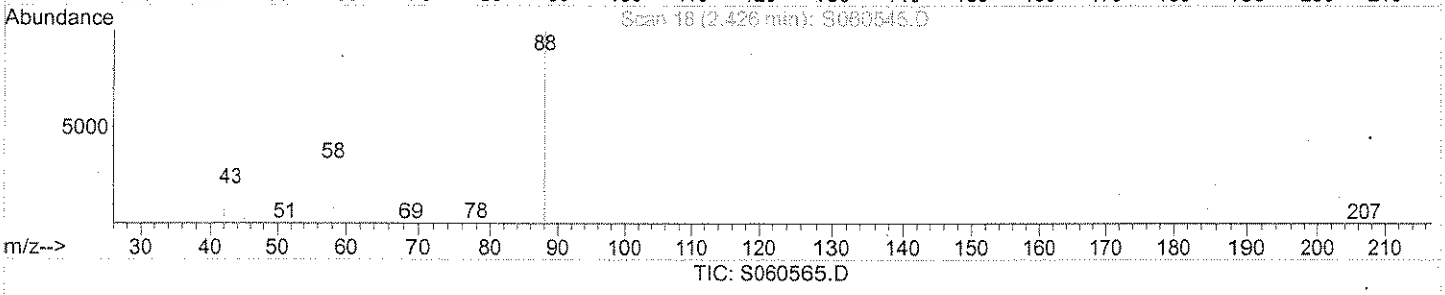
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:48 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060565.D

(2) 1,4-Dioxane (N)

2.43min 40.13mg/L m

response 108987

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	37.06#
0.00	0.00	0.00
0.00	0.00	0.00

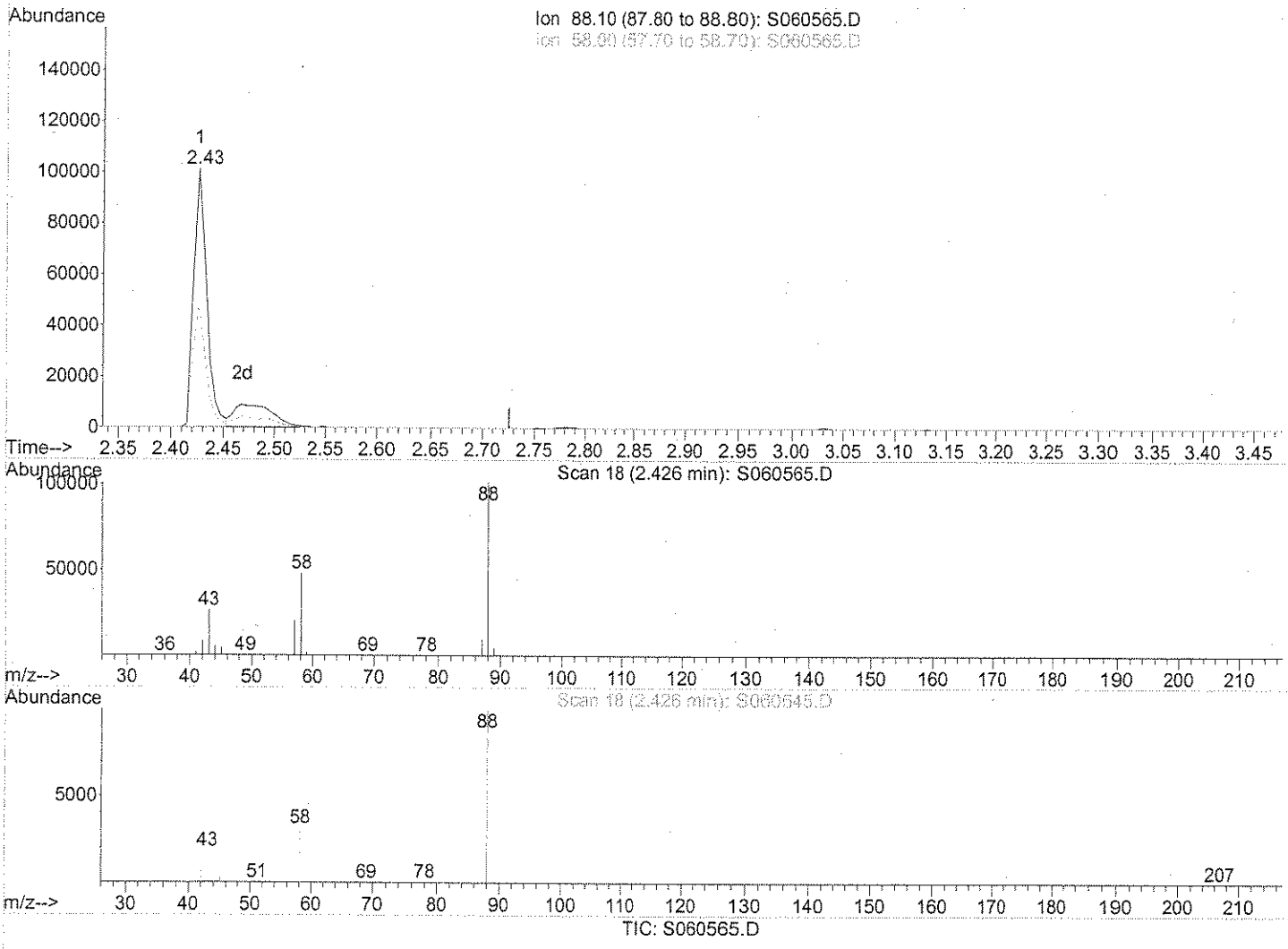
Spot peak
EC 4/24/06

PM 4/28/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:48 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060565.D

(2) 1,4-Dioxane (N)

2.43min 31.56mg/L

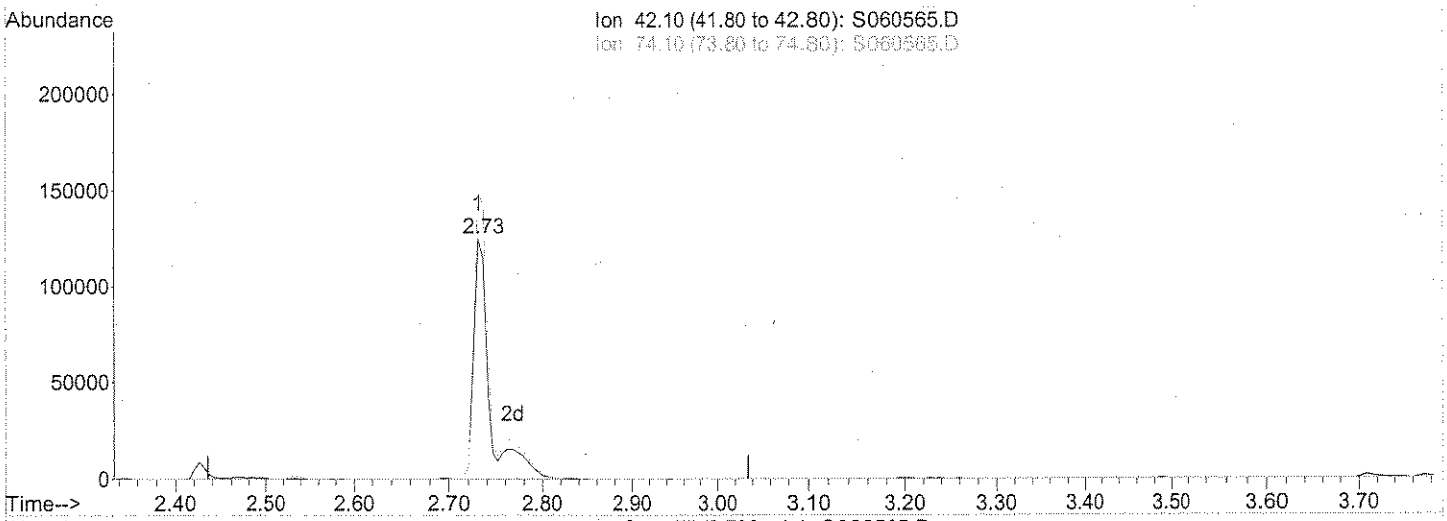
response 85705

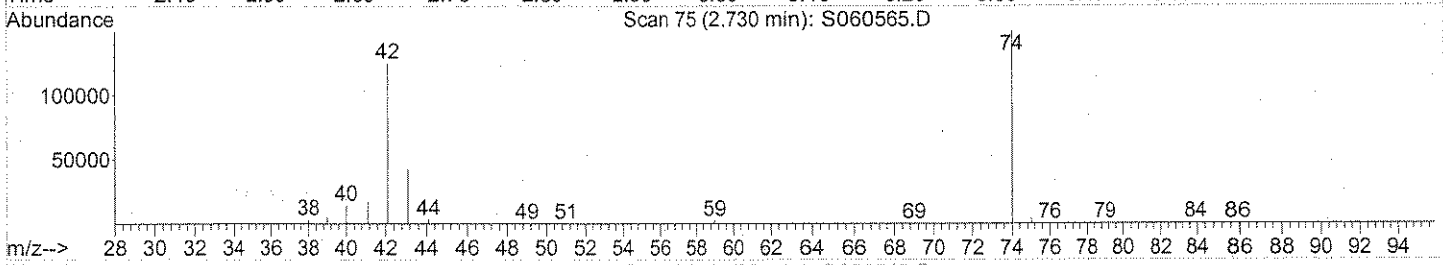
Ion	Exp%	Act%
88.10	100	100
58.00	61.30	47.13#
0.00	0.00	0.00
0.00	0.00	0.00

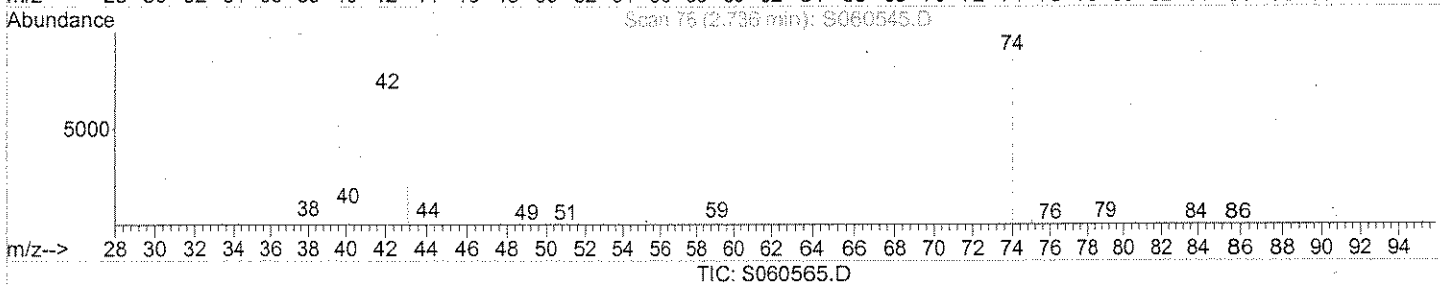
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:49 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060565.D

(3) N-Nitrosodimethylamine (T)

2.73min 55.71mg/L m

response 150065

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	97.89
0.00	0.00	0.00
0.00	0.00	0.00

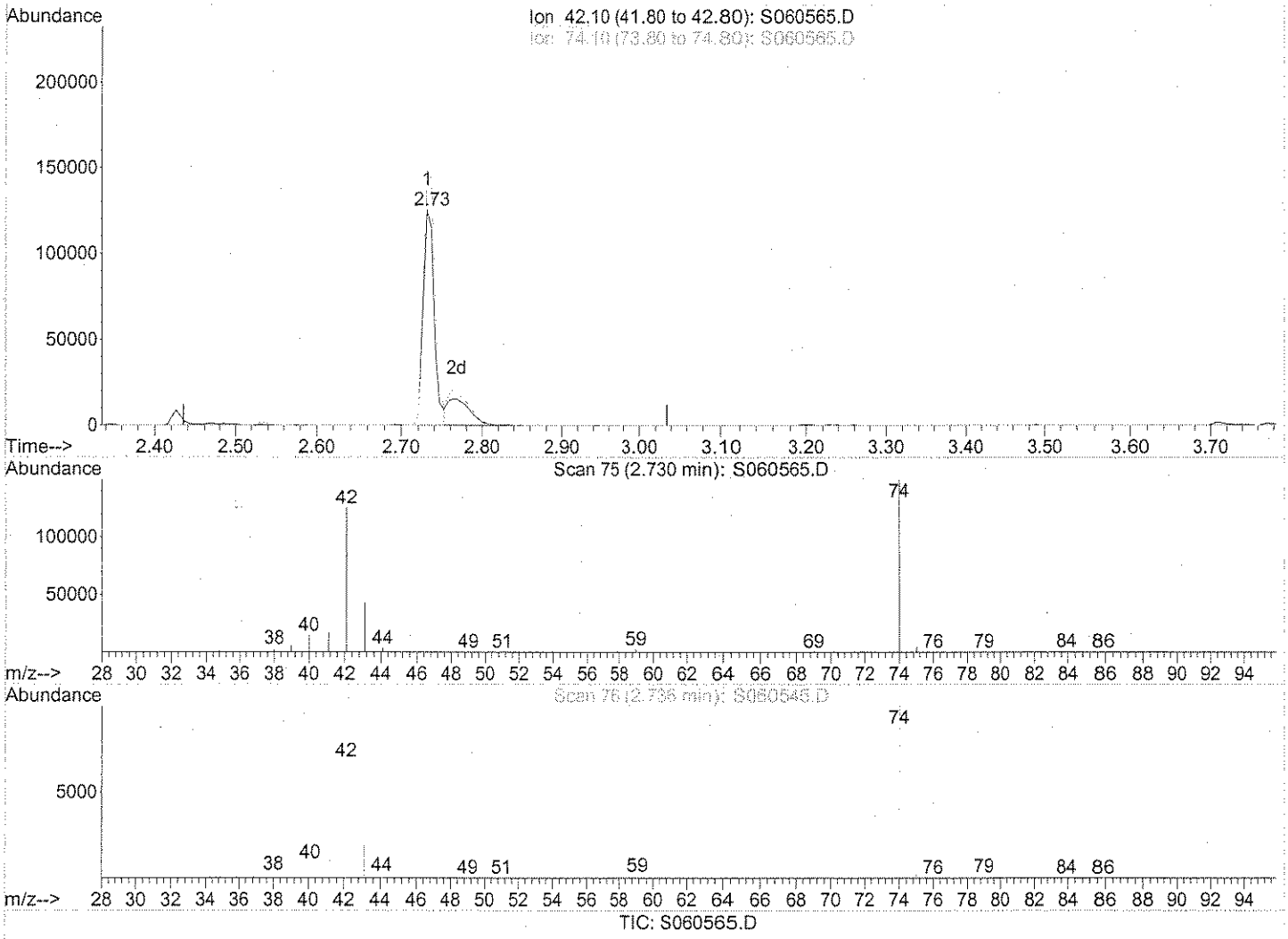
Split Pair 4/24/06

DA 4/25/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:48 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060565.D

(3) N-Nitrosodimethylamine (T)

2.73min 44.50mg/L

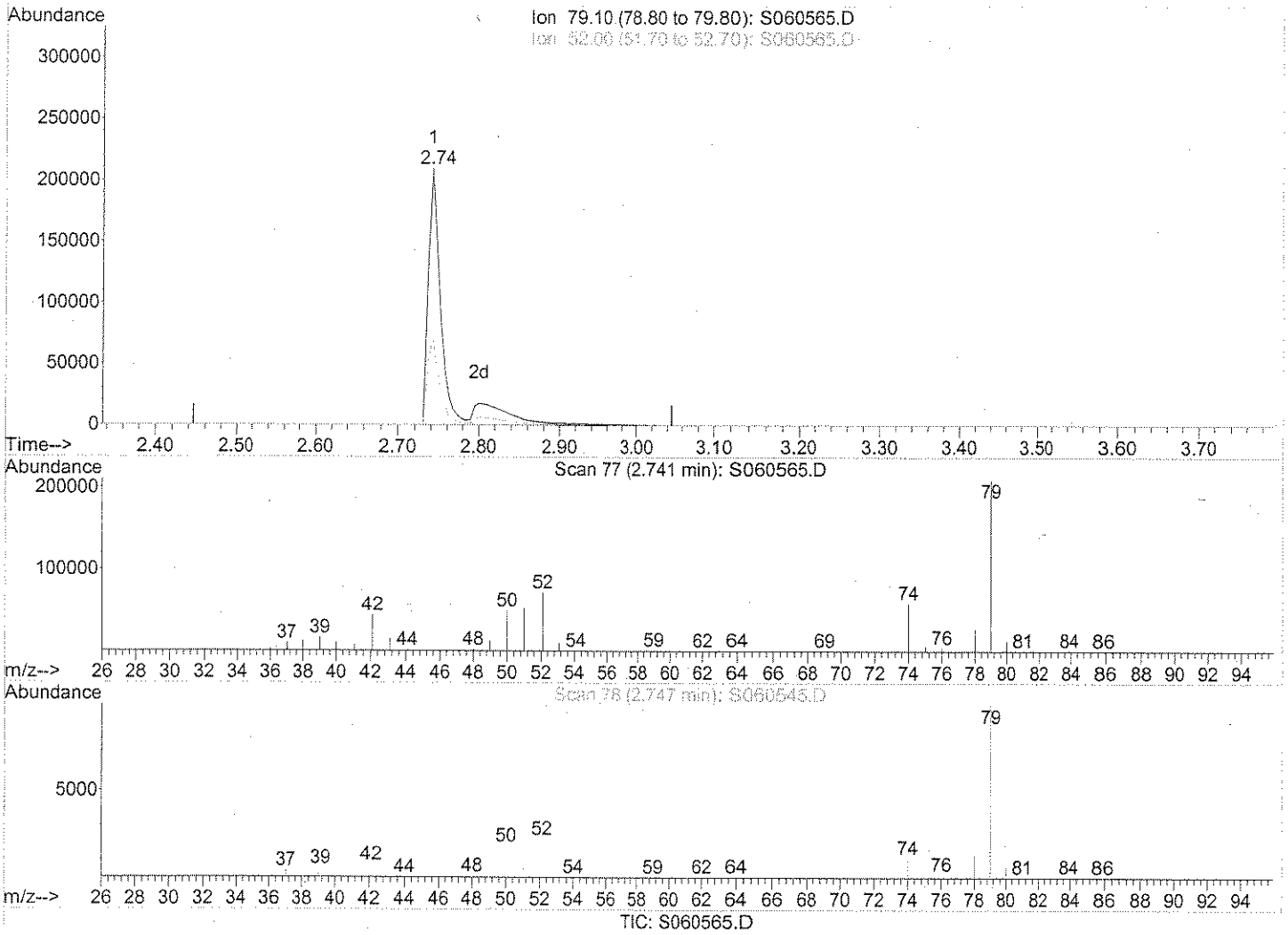
response 119866

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	122.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq.On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:49 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(4) Pyridine (T)

2.74min 37.55mg/L m

response 271924

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	27.13#
0.00	0.00	0.00
0.00	0.00	0.00

Split Peak
4/24/06

MA 4/28/06

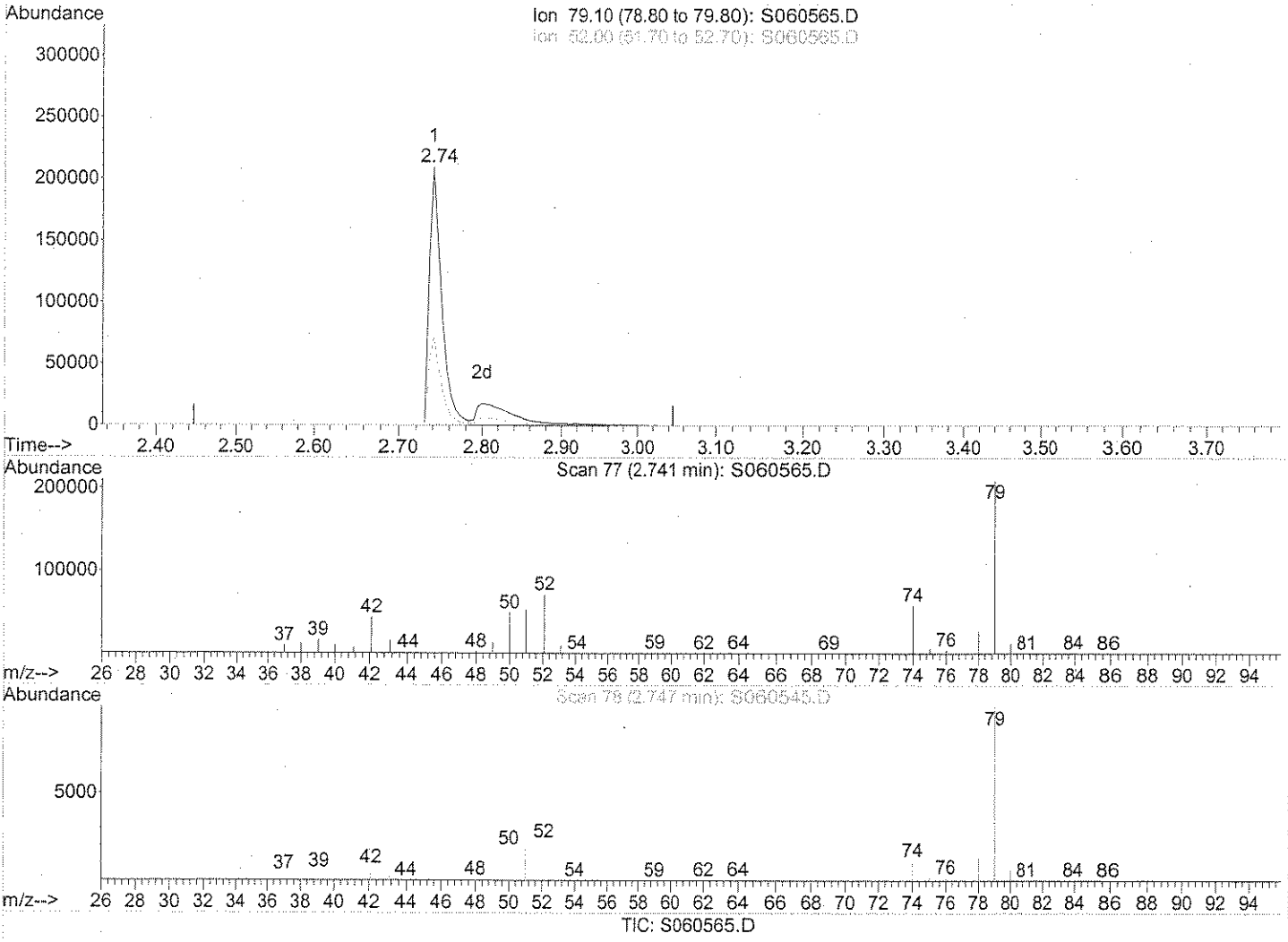
500

S060565.D BA060422.M Mon Apr 24 14:49:15 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:49 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(4) Pyridine (T)

2.74min 29.86mg/L

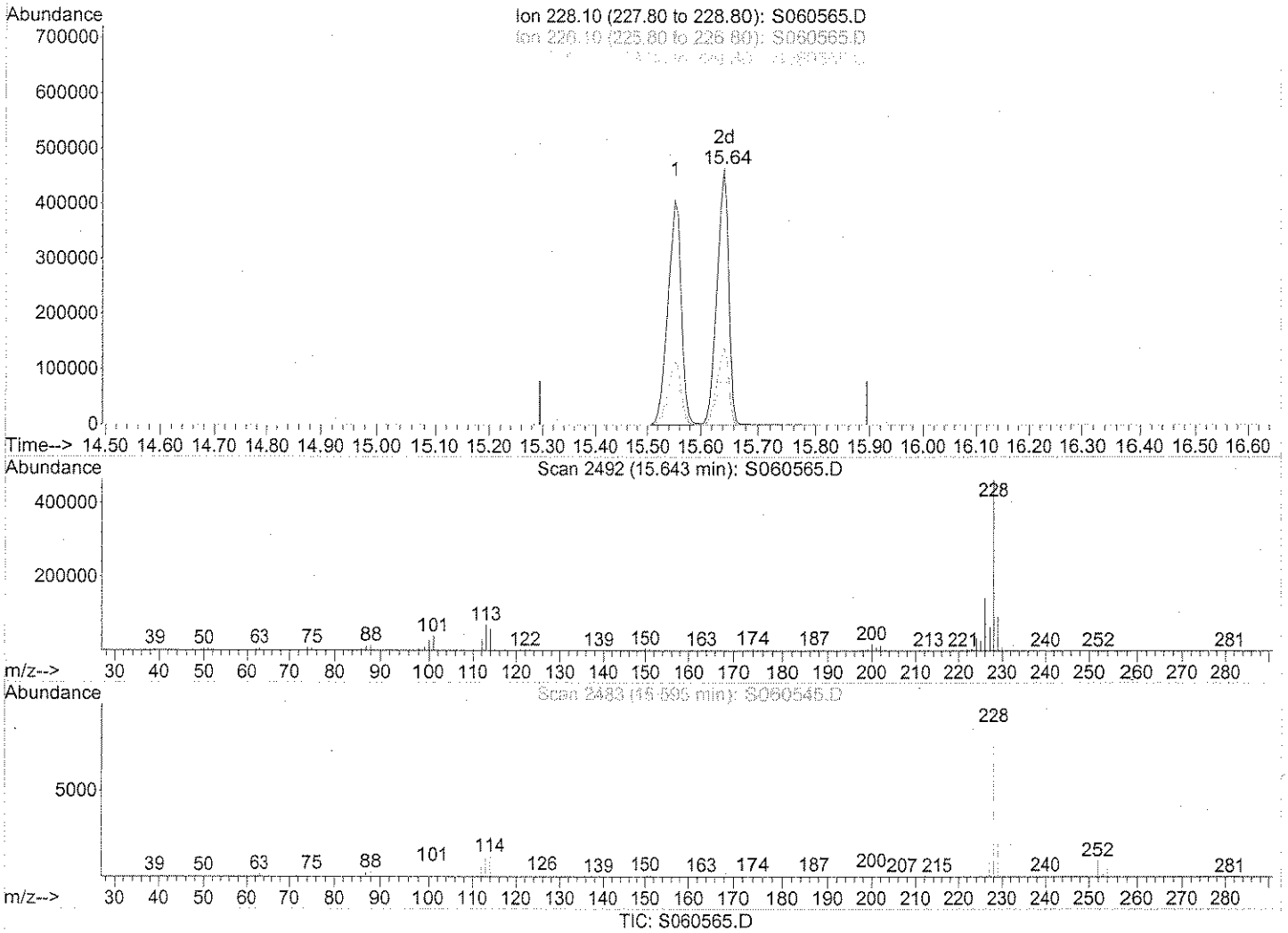
response 216268

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	34.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:50 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(77) Chrysene (T)

15.64min 44.04mg/L m

response 676326

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	29.73
229.10	19.40	21.05
0.00	0.00	0.00

Wrong peak 4/24/06

MF 4/28/06

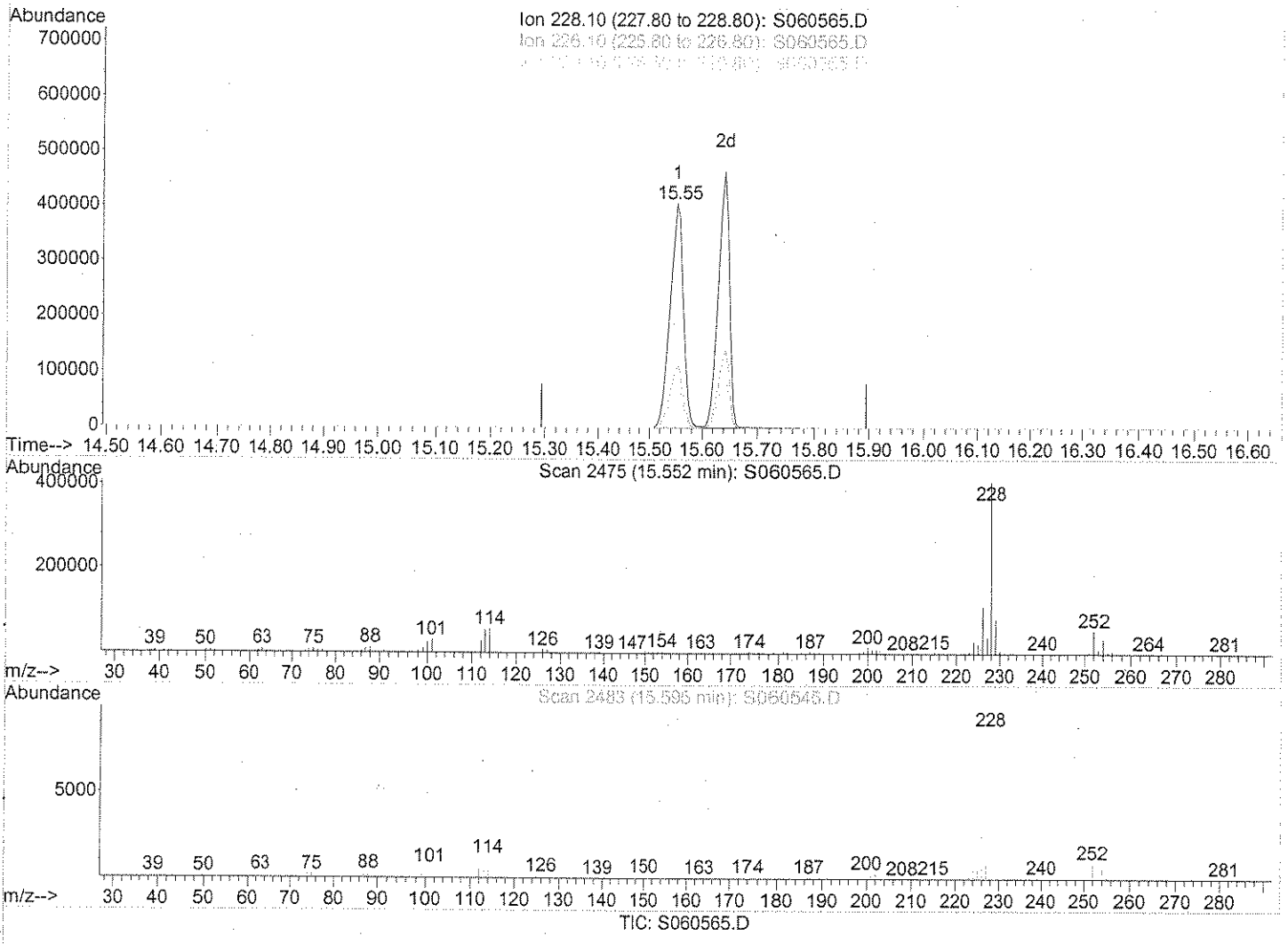
502

S060565.D BA060422.M Mon Apr 24 14:50:55 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:50 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(77) Chrysene (T)

15.55min 46.97mg/L

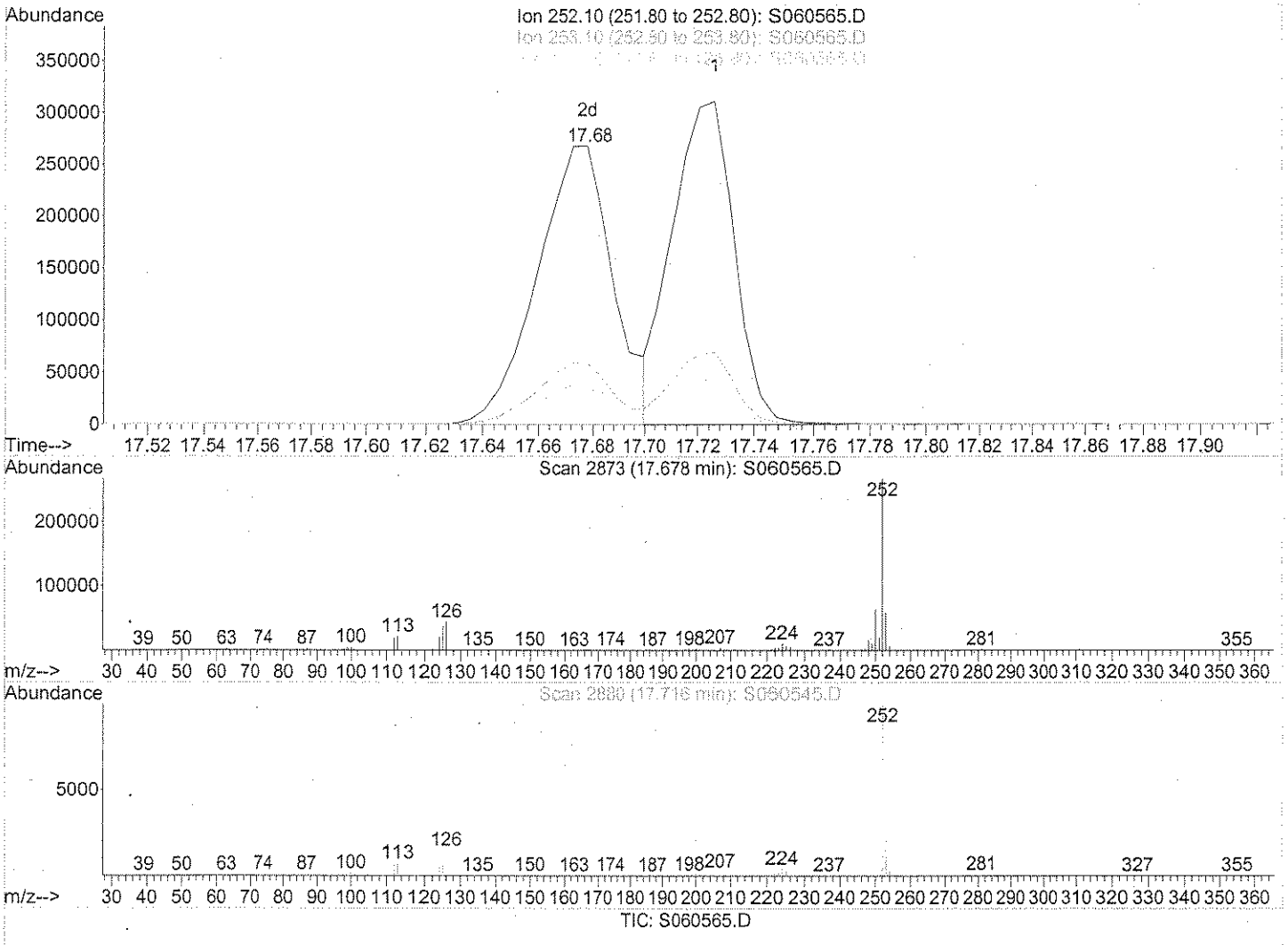
response 721345

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.87
229.10	19.40	19.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:51 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(82) Benzo(b)fluoranthene (T)

17.68min 40.65mg/L m

response 521969

Ion	Exp%	Act%
252.10	100	100
253.10	21.90	20.52
125.10	18.10	13.35#
0.00	0.00	0.00

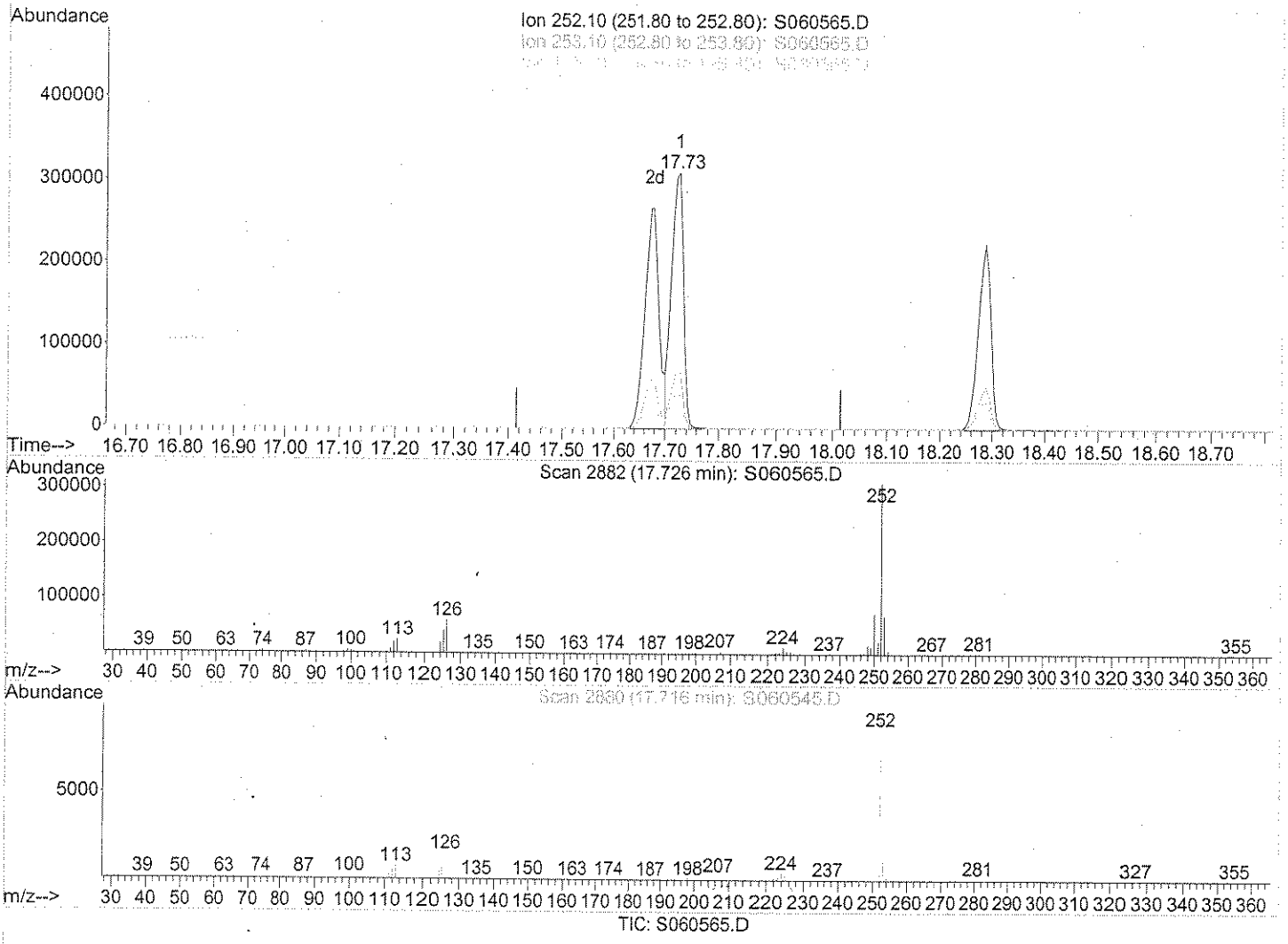
Wrong peak
4/28/06

MA 4/28/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:50 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(82) Benzo(b)fluoranthene (T)

17.73min 37.99mg/L

response 487906

Ion	Exp%	Act%
252.10	100	100
253.10	21.90	21.95
125.10	18.10	14.28#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:48:26 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	199901	40.00	mg/L	-0.02
22) Naphthalene-d8	7.25	136	785309	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.50	164	427098	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	703200	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	597615	40.00	mg/L	-0.04
80) Perylene-d12	18.39	264	297523	40.00	mg/L	-0.04
System Monitoring Compounds						
6) 2-Fluorophenol	4.06	112	252877	42.20	mg/L	-0.02
Spiked Amount 50.000			Recovery =	84.40%		
7) Phenol-d5	5.20	99	335890	43.73	mg/L	-0.02
Spiked Amount 50.000			Recovery =	87.46%		
23) Nitrobenzene-d5	6.36	82	350076	49.80	mg/L	-0.02
Spiked Amount 50.000			Recovery =	99.60%		
41) 2-Fluorobiphenyl	8.64	172	616223	47.61	mg/L	-0.02
Spiked Amount 50.000			Recovery =	95.22%		
61) 2,4,6-Tribromophenol	10.49	330	107683	49.93	mg/L	-0.03
Spiked Amount 50.000			Recovery =	99.86%		
73) Terphenyl-d14	13.66	244	626927	45.93	mg/L	-0.03
Spiked Amount 50.000			Recovery =	91.86%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	85705	31.56	mg/L #	81
3) N-Nitrosodimethylamine	2.73	42	119866	44.50	mg/L	94
4) Pyridine	2.74	79	216268	29.86	mg/L #	63
5) PGMEA	4.00	43	15284	3.91	mg/L #	72
8) Aniline	5.25	93	426766	56.43	mg/L	95
9) Phenol	5.21	94	370468	43.75	mg/L #	79
10) Bis(2-chloroethyl)ether	5.31	93	289421	43.53	mg/L	95
11) 2-Chlorophenol	5.39	128	293692	44.69	mg/L	98
12) 1,3-Dichlorobenzene	5.56	146	273038	34.74	mg/L	98
13) 1,4-Dichlorobenzene	5.63	146	276524	34.41	mg/L	98
14) Benzyl alcohol	5.81	108	187619	49.65	mg/L #	73
15) 1,2-Dichlorobenzene	5.87	146	276298	36.41	mg/L	98
16) N-Methyl pyrrolidine (NMP)	5.87	99	1384	0.35	mg/L #	60
17) 2-Methylphenol	5.97	108	262868	42.81	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.00	45	174905	112.12	mg/L #	43
19) N-Nitrosodi-n-propylamine	6.19	70	251746	46.94	mg/L #	68
20) Hexachloroethane	6.26	117	108785	33.97	mg/L	92
21) 3- and 4-Methylphenol Coel	6.16	107	352948	91.91	mg/L #	94
24) Nitrobenzene	6.38	77	367750	46.78	mg/L #	82
25) Isophorone	6.67	82	650420	48.96	mg/L	96
26) 2-Nitrophenol	6.79	139	165673	48.05	mg/L #	84
27) 2,4-Dimethylphenol	6.84	122	220886	39.35	mg/L	92
28) Bis(2-chloroethoxy)methane	6.96	93	364473	51.45	mg/L	98
29) 2,4-Dichlorophenol	7.08	162	243265	43.77	mg/L	98
30) 1,2,4-Trichlorobenzene	7.19	180	231912	36.20	mg/L	100
31) Benzoic acid	7.04	122	198149	46.85	mg/L #	81
32) Naphthalene	7.28	128	810741	42.20	mg/L	99
33) 4-Chloroaniline	7.38	127	339228	57.53	mg/L	95
34) Hexachlorobutadiene	7.50	225	122114	31.34	mg/L	99

(#) = qualifier out of range (m) = manual integration
S060565.D BA060422.M Mon Apr 24 14:48:29 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:48:26 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

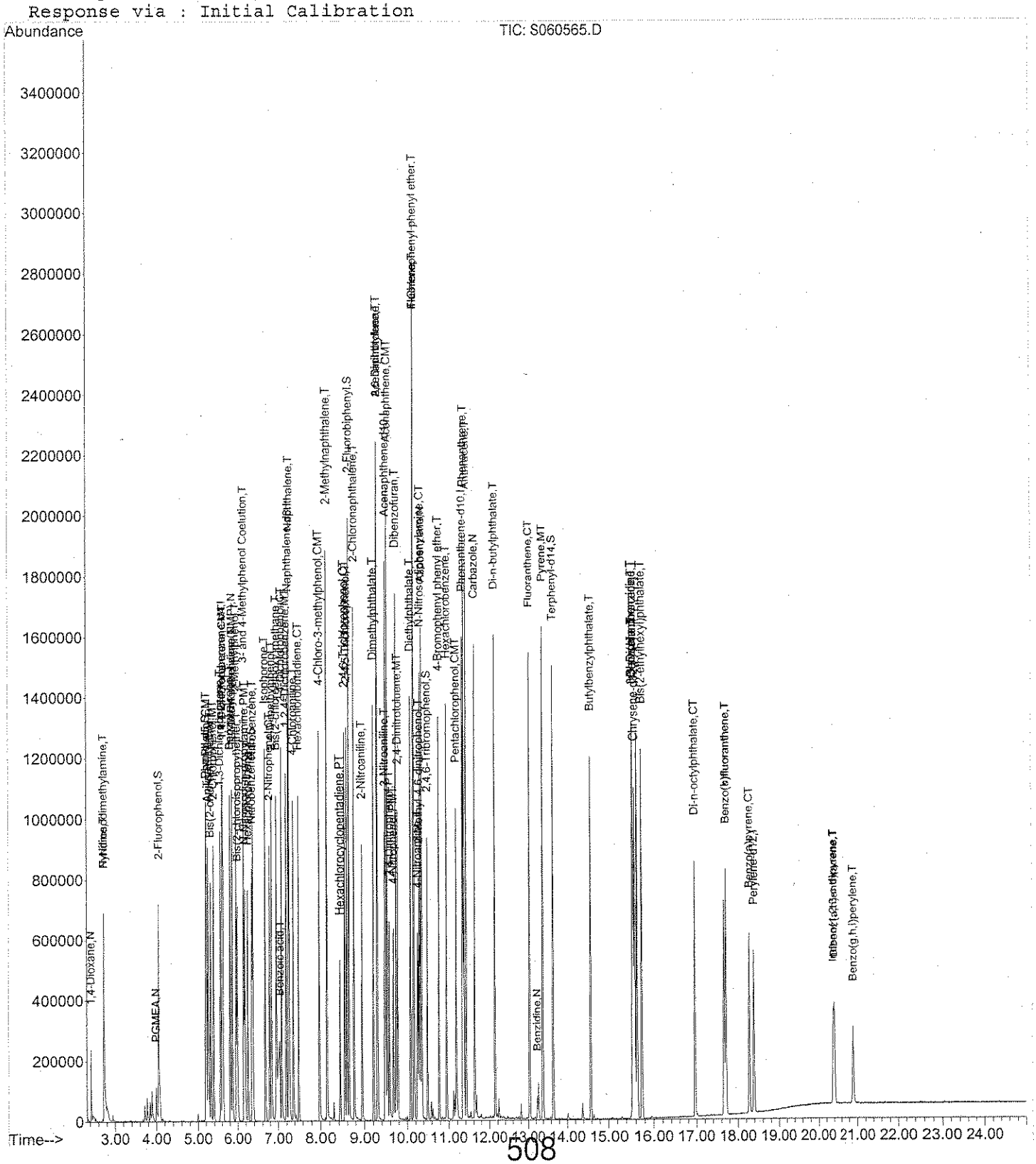
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	7.99	107	256126	47.75	mg/L		91
36)	2-Methylnaphthalene	8.15	142	541808	42.41	mg/L		97
38)	Hexachlorocyclopentadiene	8.44	237	90925	23.27	mg/L		98
39)	2,4,6-Trichlorophenol	8.54	196	174439	44.97	mg/L		99
40)	2,4,5-Trichlorophenol	8.59	196	191144	45.25	mg/L		95
42)	2-Chloronaphthalene	8.77	162	510527	44.74	mg/L		99
43)	2-Nitroaniline	8.95	65	185078	55.29	mg/L		90
44)	Dimethylphthalate	9.21	163	588017	47.23	mg/L	#	92
45)	Acenaphthylene	9.31	152	842065	47.70	mg/L		99
46)	2,6-Dinitrotoluene	9.30	165	141310	46.04	mg/L	#	55
47)	3-Nitroaniline	9.48	138	146727	62.68	mg/L	#	85
48)	Acenaphthene	9.54	154	477404	45.54	mg/L		98
49)	2,4-Dinitrophenol	9.59	184	93408	49.56	mg/L	#	83
50)	Dibenzofuran	9.74	168	733115	45.81	mg/L		95
51)	4-Nitrophenol	9.68	109	72346	44.16	mg/L	#	66
52)	2,4-Dinitrotoluene	9.78	165	179262	48.65	mg/L	#	80
53)	Fluorene	10.17	166	592794	47.30	mg/L		98
54)	Diethylphthalate	10.09	149	597009	48.28	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.16	204	281520	43.77	mg/L		95
56)	4-Nitroaniline	10.26	138	131316	58.00	mg/L	#	78
58)	2-Methyl-4,6-dinitrophenol	10.30	198	119892	49.52	mg/L		94
59)	N-Nitrosodiphenylamine	10.33	169	367806	43.30	mg/L		98
60)	Azobenzene	10.36	77	739126	49.62	mg/L		95
62)	4-Bromophenyl phenyl ether	10.77	248	174489	44.82	mg/L		99
63)	Hexachlorobenzene	10.96	284	199698	47.38	mg/L		99
64)	Pentachlorophenol	11.18	266	130612	44.67	mg/L		99
65)	Phenanthrene	11.37	178	799811	46.56	mg/L		99
66)	Anthracene	11.43	178	789790	47.42	mg/L		99
67)	Carbazole	11.64	167	731739	55.81	mg/L		99
68)	Di-n-butylphthalate	12.15	149	992232	50.24	mg/L	#	99
69)	Fluoranthene	13.04	202	843223	43.87	mg/L		96
71)	Benzidine	13.24	184	39265	120.38	mg/L	#	94
72)	Pyrene	13.40	202	889509	44.64	mg/L		100
74)	Butylbenzylphthalate	14.58	149	406584	42.95	mg/L		90
75)	Benz(a)anthracene	15.55	228	721345	44.02	mg/L		99
76)	3,3'-Dichlorobenzidine	15.54	252	126754	35.57	mg/L		99
77)	Chrysene	15.55	228	721345	46.97	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	15.74	149	506328	43.95	mg/L		99
81)	Di-n-octylphthalate	16.97	149	674665	37.25	mg/L		100
82)	Benzo(b)fluoranthene	17.73	252	487906	37.99	mg/L	#	96
83)	Benzo(k)fluoranthene	17.73	252	487906	39.60	mg/L		96
84)	Benzo(a)pyrene	18.29	252	379363	36.80	mg/L	#	94
85)	Indeno(1,2,3-c,d)pyrene	20.38	276	284217	33.72	mg/L		89
86)	Dibenz(a,h)anthracene	20.41	278	240364	37.61	mg/L	#	87
87)	Benzo(g,h,i)perylene	20.90	276	218544	32.46	mg/L	#	80

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060565.D Vial: 7
Acq On : 24 Apr 2006 2:12 pm Operator: SC
Sample : S0406WA1LCSD Inst : MSS
Misc : S0406WA1LCSD;06-04-06;06-APR-2006;1000;; Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 14:48 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Sample Raw Data

Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	03/30/2006	**Receive Date:**	04/03/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	L0600578
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
		Prep Date:	04/06/2006		
Prep Ref:	73375				

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:	Base Neutral / Acid Semivolatile Organic Compounds	**Report List ID:**	LJ1260
Tune Ref:		**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060566.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 14:45	**Quant Date:**	04/24/2006 15:27	**Vial:**	8
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-001			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.60	0.00?	152	225783	40.00	OK
2	Naphthalene-d8	7.25	0.01?	136	909549	40.00	OK
3	Acenaphthene-d10	9.50	0.01?	164	501739	40.00	OK
4	Phenanthrene-d10	11.34	0.00?	188	849677	40.00	OK
5	Chrysene-d12	15.59	0.00?	240	735145	40.00	OK
6	Perylene-d12	18.40	0.01?	264	397178	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.07	0.01	0.00	112	283905	41.95	84	45-101	OK	
1	Phenol-d5	5.20	0.01	0.00	99	377565	43.52	87	49-107	OK	
2	Nitrobenzene-d5	6.36	0.01	0.00	82	388914	47.76	96	58-105	OK	
3	2-Fluorobiphenyl	8.64	0.00	0.00	172	694449	45.67	91	50-101	OK	
4	2,4,6-Tribromophenol	10.49	0.00	0.00	330	132567	50.87	102	43-104	OK	
5	Terphenyl-d14	13.67	0.02	0.00	244	706338	42.07	84	34-120	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.50	U	
1	N-Nitrosodimethylamine				42	0		2.8	U	
1	Pyridine				79	0		2.9	U	
1	Aniline				93	0		3.0	U	
1	Phenol	5.21		0.00	94	61965	6.48	6.2		
1	Bis(2-chloroethyl) Ether				93	0		1.0	U	
1	2-Chlorophenol				128	0		1.0	U	
1	1,3-Dichlorobenzene				146	0		1.0	U	
1	1,4-Dichlorobenzene				146	0		1.0	U	
1	Benzyl alcohol				108	0		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060566.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 14:45	**Quant Date:**	04/24/2006 15:27	**Vial:**	8
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-001			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		1.0	U	
1	2-Methylphenol				108	0		1.0	U	
1	Bis(2-chloroisopropyl) Ether				45	0**d**		1.0	U	
1	N-Nitrosodi-n-propylamine				70	0**d**		1.0	U	
1	Hexachloroethane				117	0		4.0	U	
1	3- and 4-Methylphenol Coelutio				107	0		1.0	U	
2	Nitrobenzene				77	0		1.0	U	
2	Isophorone				82	0		1.0	U	
2	2-Nitrophenol				139	0		1.0	U	
2	2,4-Dimethylphenol				122	0**d**		2.0	U	
2	bis(2-Chloroethoxy)methane				93	0		1.0	U	
2	2,4-Dichlorophenol				162	0		1.0	U	
2	1,2,4-Trichlorobenzene				180	0		1.5	U	
2	Benzoic acid	6.95	-0.06	-0.01	122	16379	6.00	5.7	J	
2	Naphthalene				128	0		1.0	U	
2	4-Chloroaniline				127	0		1.7	U	
2	Hexachlorobutadiene				225	0		1.6	U	
2	4-Chloro-3-methylphenol				107	0		1.0	U	
2	2-Methylnaphthalene				142	0		1.0	U	
3	Hexachlorocyclopentadiene				237	0		1.0	U	
3	2,4,6-Trichlorophenol				196	0		2.2	U	
3	2,4,5-Trichlorophenol				196	0		2.2	U	
3	2-Chloronaphthalene				162	0		1.0	U	
3	2-Nitroaniline				65	0		1.0	U	
3	Dimethyl Phthalate				163	0		1.0	U	
3	Acenaphthylene				152	0		1.0	U	
3	2,6-Dinitrotoluene				165	0**d**		1.8	U	
3	3-Nitroaniline				138	0		1.5	U	
3	Acenaphthene				154	0		1.0	U	
3	2,4-Dinitrophenol				184	0**d**		1.5	U	
3	Dibenzofuran				168	0		1.0	U	
3	4-Nitrophenol				109	0		1.7	U	
3	2,4-Dinitrotoluene				165	0**d**		1.0	U	
3	Fluorene				166	0		1.0	U	
3	Diethyl Phthalate	10.08		0.00	149	6889	0.4700	6.6	U	
3	4-Chlorophenyl Phenyl Ether				204	0		1.0	U	
3	4-Nitroaniline				138	0		1.9	U	
4	2-Methyl-4,6-dinitrophenol				198	0		1.5	U	
4	N-Nitrosodiphenylamine				169	0**d**		1.0	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		2.0	U	
4	Hexachlorobenzene				284	0		1.0	U	
4	Pentachlorophenol				266	0		1.4	U	
4	Phenanthrene				178	0		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060566.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 14:45	**Quant Date:**	04/24/2006 15:27	**Vial:**	8
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-001			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		1.0	U	
4	Di-n-butyl Phthalate	12.14		0.00	149	7366	0.3100	2.0	U	
4	Fluoranthene				202	0		1.0	U	
5	Pyrene				202	0		1.0	U	
5	Butyl Benzyl Phthalate				149	0d		1.6	U	
5	Benz(a)anthracene				228	0		1.5	U	
5	3,3'-Dichlorobenzidine				252	0		3.5	U	
5	Chrysene				228	0		1.5	U	
5	Bis(2-ethylhexyl) Phthalate	15.74		0.00	149	25124	1.77	1.7	J	
6	Di-n-octyl Phthalate				149	0		1.3	U	
6	Benzo(b)fluoranthene				252	0		1.7	U	
6	Benzo(k)fluoranthene				252	0		1.9	U	
6	Benzo(a)pyrene				252	0		1.8	U	
6	Indeno(1,2,3-cd)pyrene				276	0		3.8	U	
6	Dibenz(a,h)anthracene				278	0		3.4	U	
6	Benzo(g,h,i)perylene				276	0		4.1	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060566.D Vial: 8
Acq On : 24 Apr 2006 2:45 pm Operator: SC
Sample : L0600578-001 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:22:21 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Ev 4/24/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	225783	40.00	mg/L	-0.02
22) Naphthalene-d8	7.25	136	909549	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.50	164	501739	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	849677	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	735145	40.00	mg/L	-0.03
80) Perylene-d12	18.40	264	397178	40.00	mg/L	-0.03
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	283905	41.95	mg/L	-0.02
Spiked Amount 50.000			Recovery =	83.90%		
7) Phenol-d5	5.20	99	377565	43.52	mg/L	-0.02
Spiked Amount 50.000			Recovery =	87.04%		
23) Nitrobenzene-d5	6.36	82	388914	47.76	mg/L	-0.02
Spiked Amount 50.000			Recovery =	95.52%		
41) 2-Fluorobiphenyl	8.64	172	694449	45.67	mg/L	-0.02
Spiked Amount 50.000			Recovery =	91.34%		
61) 2,4,6-Tribromophenol	10.49	330	132567	50.87	mg/L	-0.03
Spiked Amount 50.000			Recovery =	101.74%		
73) Terphenyl-d14	13.67	244	706338	42.07	mg/L	-0.03
Spiked Amount 50.000			Recovery =	84.14%		
Target Compounds						Qvalue
9) Phenol	5.21	94	61965	6.48	mg/L #	44
31) Benzoic acid	6.95	122	16379	6.00	mg/L #	79
54) Diethylphthalate	10.08	149	6889	0.47	mg/L	98
68) Di-n-butylphthalate	12.14	149	7366	0.31	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	15.74	149	25124	1.77	mg/L	98

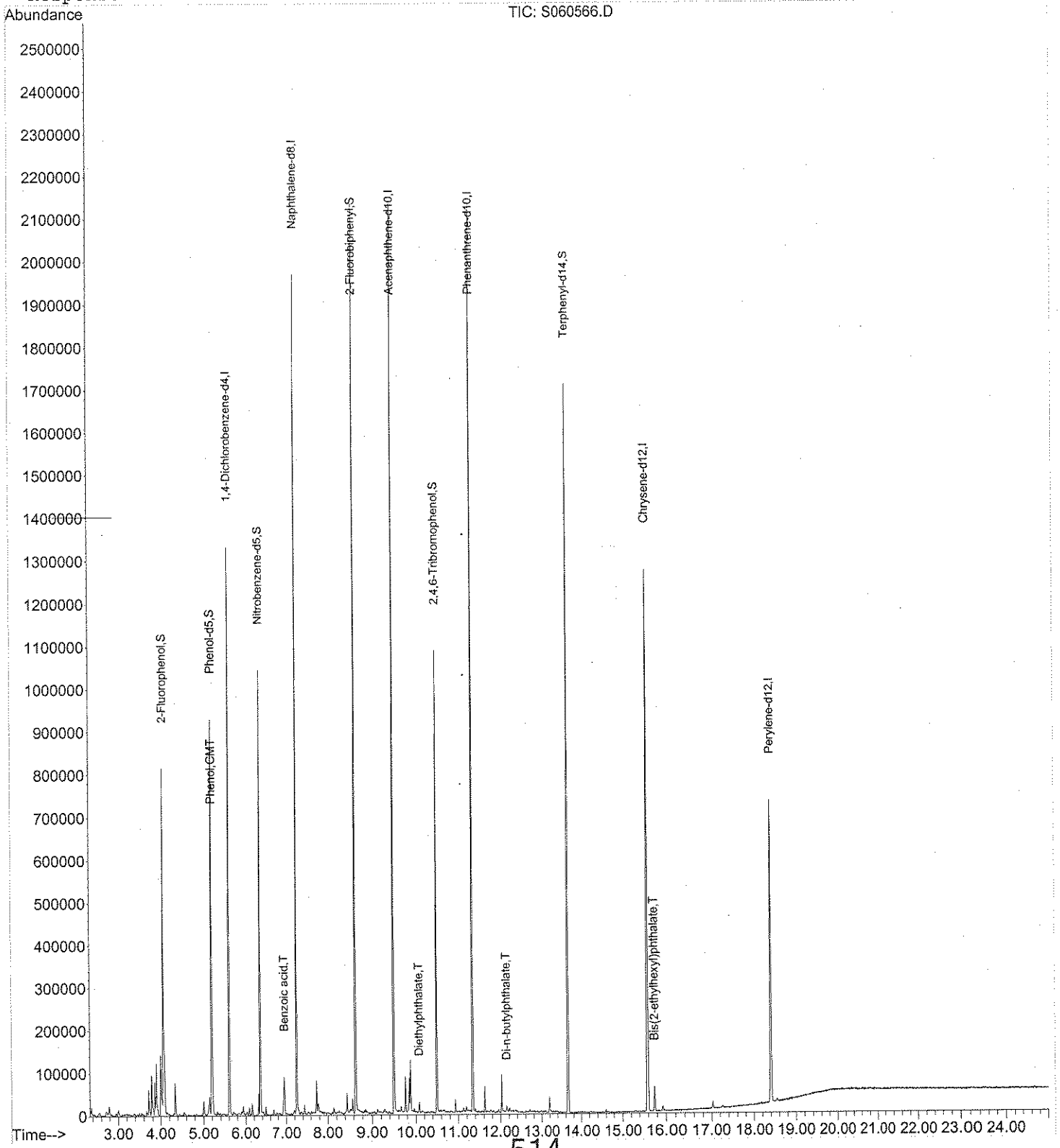
DT 4/27/06

(#) = qualifier out of range (m) = manual integration
S060566.D BA060422.M Mon Apr 24 15:27:27 2006 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060566.D Vial: 8
Acq On : 24 Apr 2006 2:45 pm Operator: SC
Sample : L0600578-001 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:27 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060566.D Vial: 8
Acq On : 24 Apr 2006 2:45 pm Operator: SC
Sample : L0600578-001 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:22:21 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

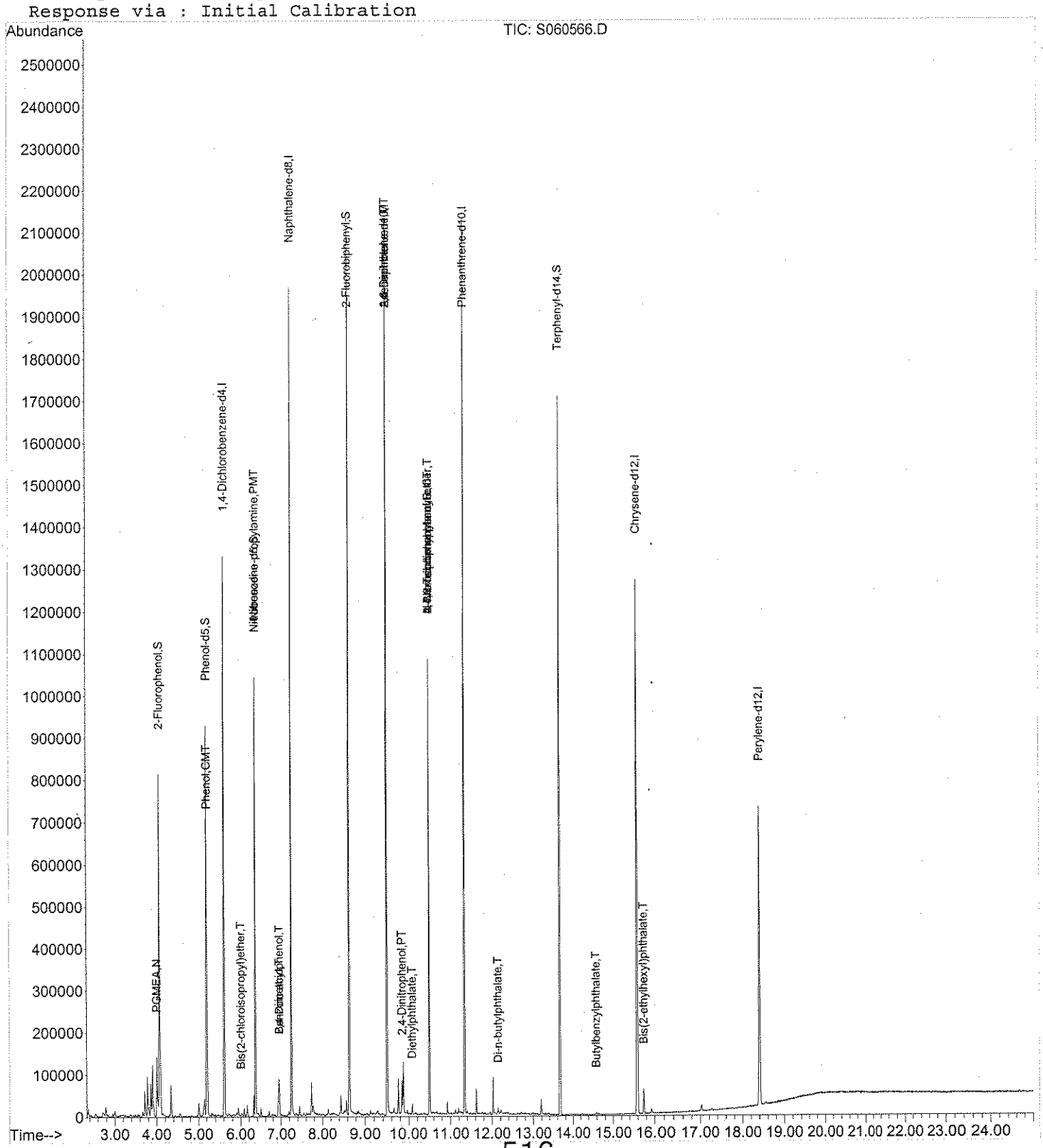
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	225783	40.00	mg/L	-0.02
22) Naphthalene-d8	7.25	136	909549	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.50	164	501739	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	849677	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	735145	40.00	mg/L	-0.03
80) Perylene-d12	18.40	264	397178	40.00	mg/L	-0.03
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	283905	41.95	mg/L	-0.02
Spiked Amount 50.000			Recovery = 83.90%			
7) Phenol-d5	5.20	99	377565	43.52	mg/L	-0.02
Spiked Amount 50.000			Recovery = 87.04%			
23) Nitrobenzene-d5	6.36	82	388914	47.76	mg/L	-0.02
Spiked Amount 50.000			Recovery = 95.52%			
41) 2-Fluorobiphenyl	8.64	172	694449	45.67	mg/L	-0.02
Spiked Amount 50.000			Recovery = 91.34%			
61) 2,4,6-Tribromophenol	10.49	330	132567	50.87	mg/L	-0.03
Spiked Amount 50.000			Recovery = 101.74%			
73) Terphenyl-d14	13.67	244	706338	42.07	mg/L	-0.03
Spiked Amount 50.000			Recovery = 84.14%			
Target Compounds						Qvalue
5) PGMEA	4.00	43	19716	4.47	mg/L #	72
9) Phenol	5.21	94	61965	6.48	mg/L #	44
18) Bis(2-chloroisopropyl)ethe	6.01	45	457	0.26	mg/L #	58
19) N-Nitrosodi-n-propylamine	6.36	70	58686	9.69	mg/L #	13
27) 2,4-Dimethylphenol	6.95	122	16379	2.52	mg/L #	7
31) Benzoic acid	6.95	122	16379	6.00	mg/L #	79
46) 2,6-Dinitrotoluene	9.50	165	66335	18.40	mg/L #	23
49) 2,4-Dinitrophenol	9.85	184	653	0.29	mg/L #	25
52) 2,4-Dinitrotoluene	9.50	165	46414	10.72	mg/L #	25
54) Diethylphthalate	10.08	149	6889	0.47	mg/L	98
59) N-Nitrosodiphenylamine	10.49	169	3592	0.35	mg/L #	33
62) 4-Bromophenyl phenyl ether	10.49	248	5629	1.20	mg/L #	1
68) Di-n-butylphthalate	12.14	149	7366	0.31	mg/L #	97
74) Butylbenzylphthalate	14.58	149	945	1.98	mg/L #	36
78) Bis(2-ethylhexyl)phthalate	15.74	149	25124	1.77	mg/L	98

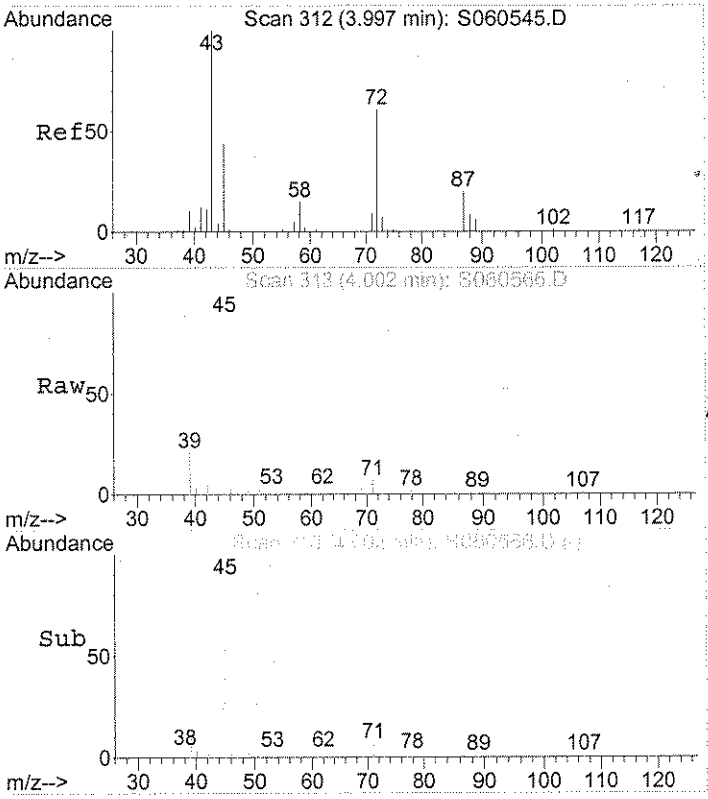
(#) = qualifier out of range (m) = manual integration
S060566.D BA060422.M Mon Apr 24 15:22:24 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060566.D Vial: 8
Acq On : 24 Apr 2006 2:45 pm Operator: SC
Sample : L0600578-001 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:22 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

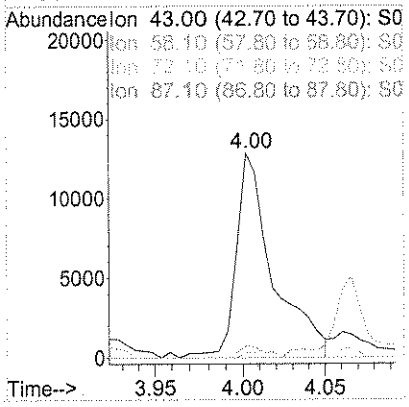


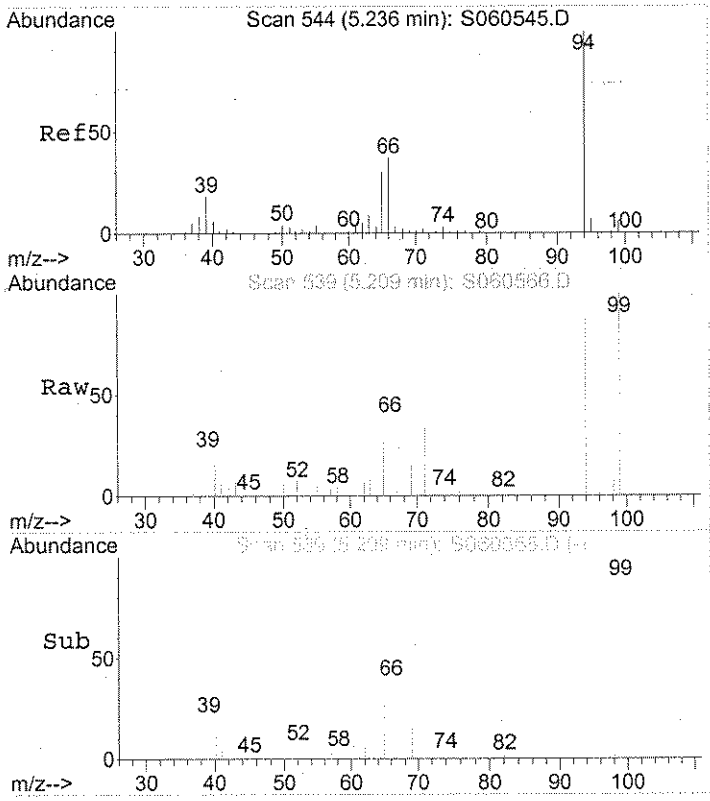


#5
PGMEA
Concen: 4.47 mg/L
RT: 4.00 min Scan# 313
Delta R.T. 0.01 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion: 43 Resp: 19716

Ion	Ratio	Lower	Upper
43	100		
58	4.0	8.0	12.0#
72	1.1	14.6	21.8#
87	0.0	5.1	7.7#

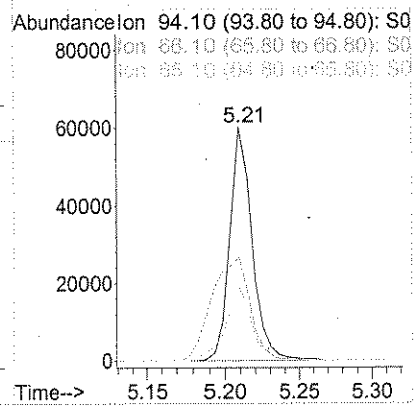


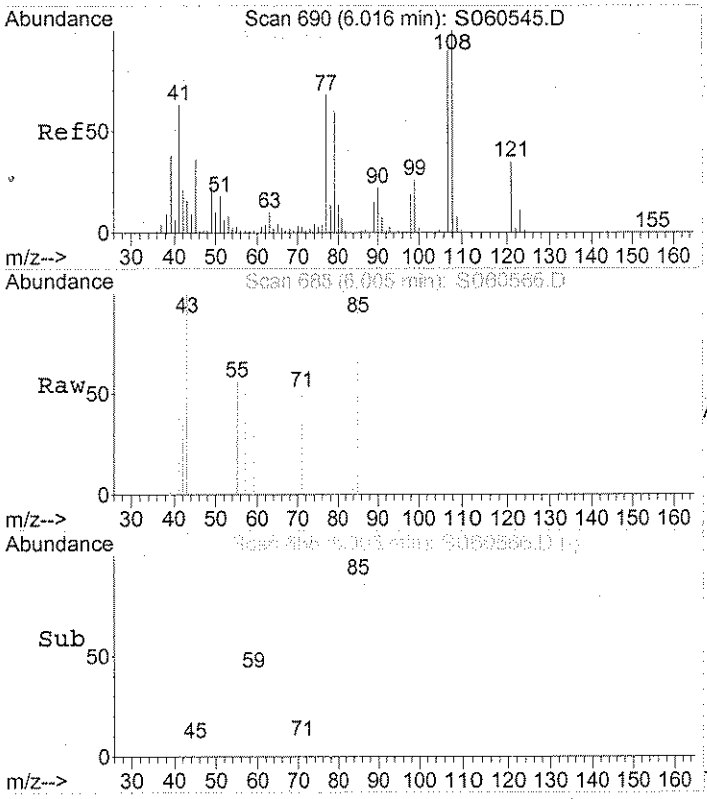


#9
Phenol
Concen: 6.48 mg/L
RT: 5.21 min Scan# 539
Delta R.T. -0.03 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion: 94 Resp: 61965

Ion	Ratio	Lower	Upper
94	100		
66	74.3	22.5	33.7#
65	36.6	20.7	31.1#

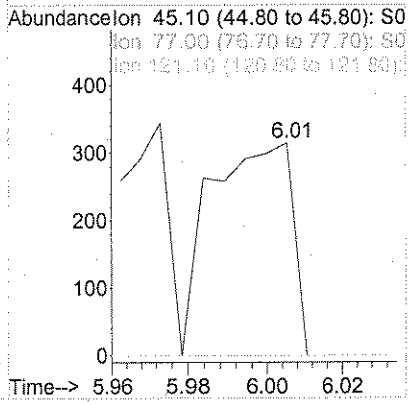


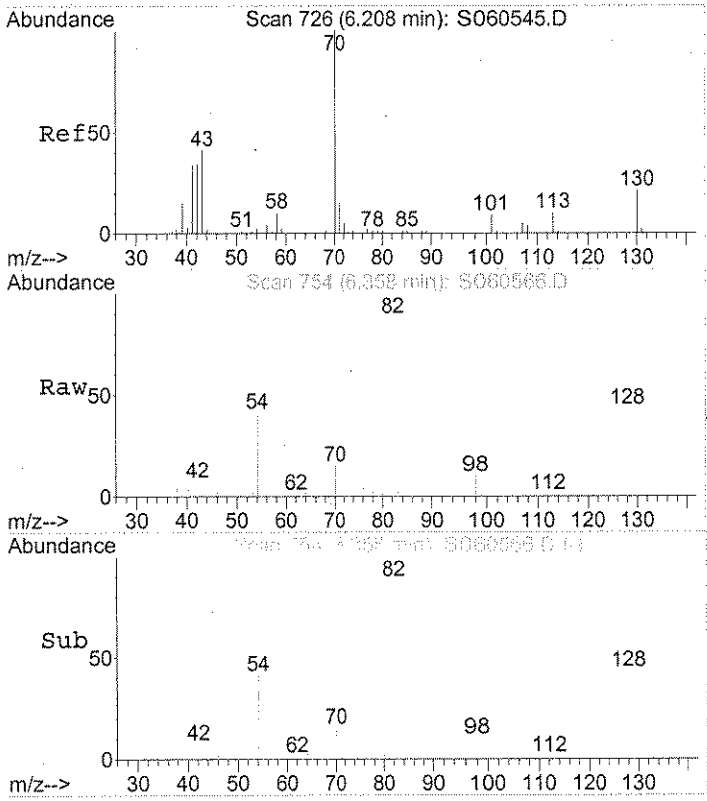


#18
Bis(2-chloroisopropyl)ether
Concen: 0.26 mg/L
RT: 6.01 min Scan# 688
Delta R.T. -0.01 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion: 45 Resp: 457

Ion	Ratio	Lower	Upper
45	100		
77	0.0	12.2	18.2#
121	0.0	17.4	26.0#

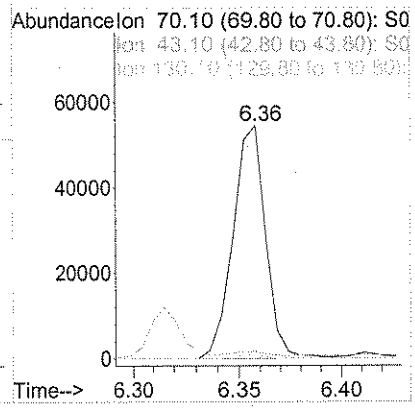


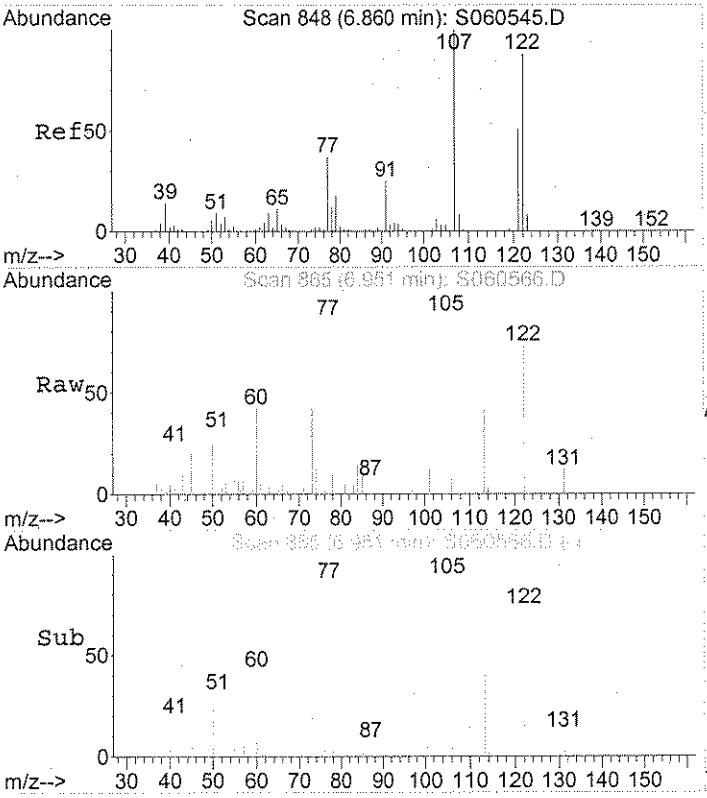


#19
N-Nitrosodi-n-propylamine
Concen: 9.69 mg/L
RT: 6.36 min Scan# 754
Delta R.T. 0.15 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion: 70 Resp: 58686

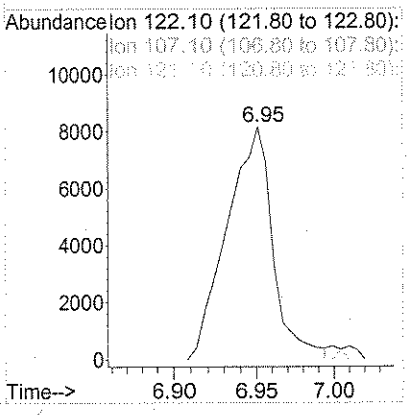
Ion	Ratio	Lower	Upper
70	100		
43	3.8	80.8	121.2#
130	1.5	19.1	28.7#

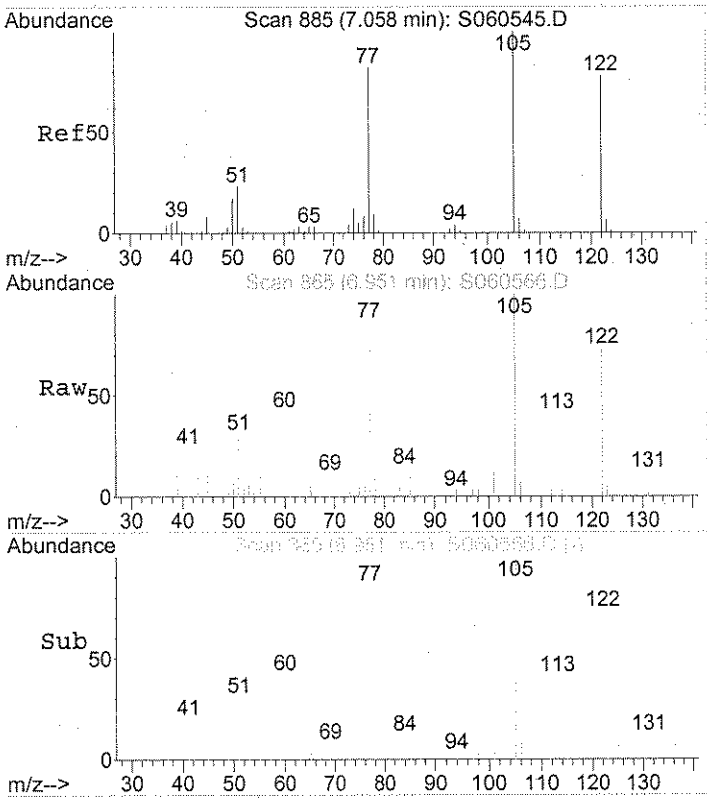




#27
2,4-Dimethylphenol
Concen: 2.52 mg/L
RT: 6.95 min Scan# 865
Delta R.T. 0.09 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

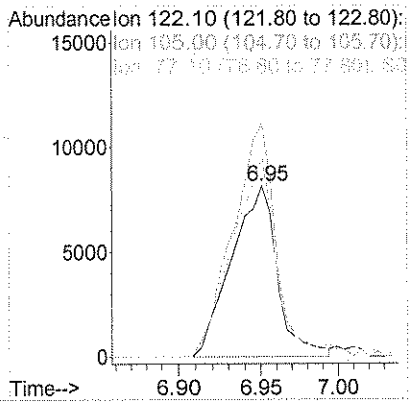
Tgt Ion:122	Resp:	16379	
Ion	Ratio	Lower	Upper
122	100		
107	0.7	84.8	127.2#
121	0.0	46.1	69.1#

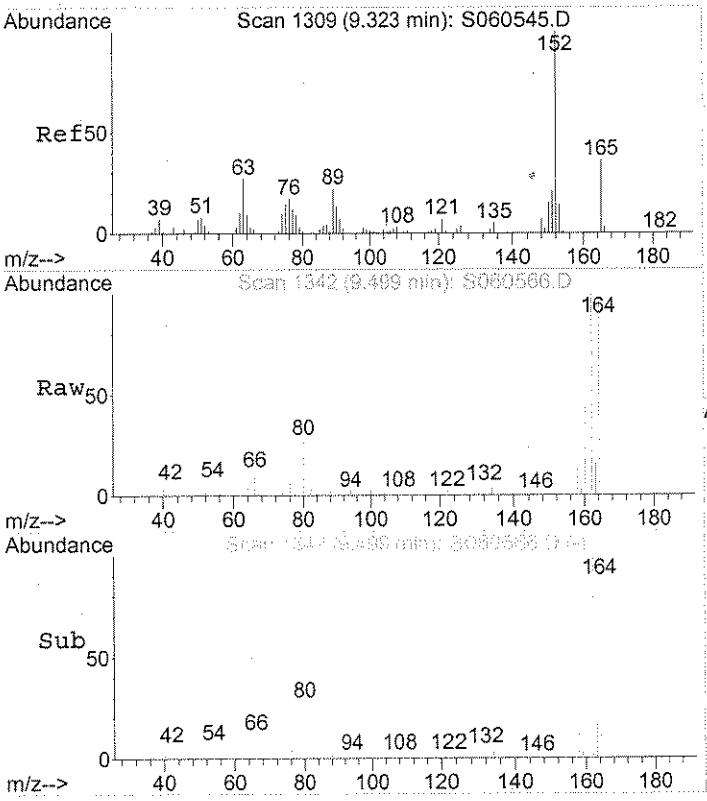




#31
Benzoic acid
Concen: 6.00 mg/L
RT: 6.95 min Scan# 865
Delta R.T. -0.11 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:122	Resp:	16379	
Ion	Ratio	Lower	Upper
122	100		
105	129.4	93.8	140.6
77	115.8	67.5	101.3#

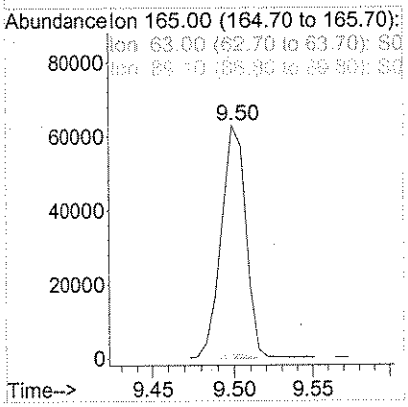


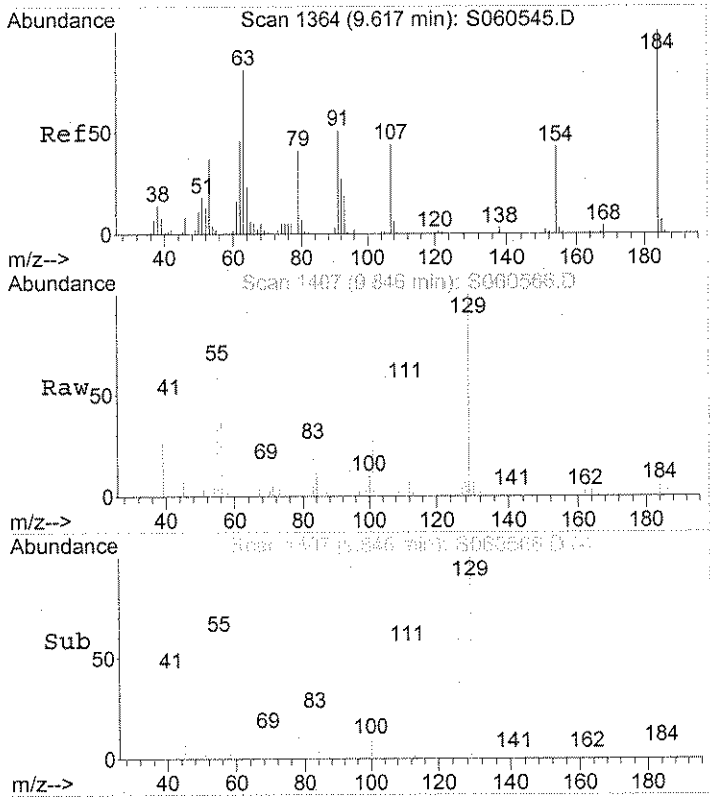


#46
2,6-Dinitrotoluene
Concen: 18.40 mg/L
RT: 9.50 min Scan# 1342
Delta R.T. 0.18 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:165 Resp: 66335

Ion	Ratio	Lower	Upper
165	100		
63	0.6	54.4	81.6#
89	1.4	36.9	55.3#

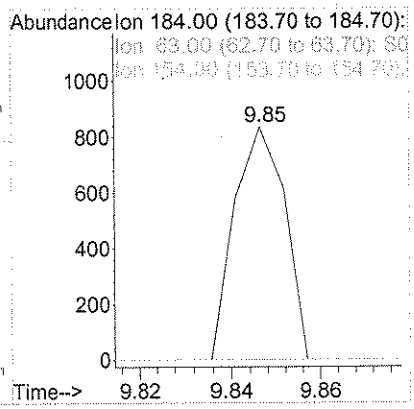


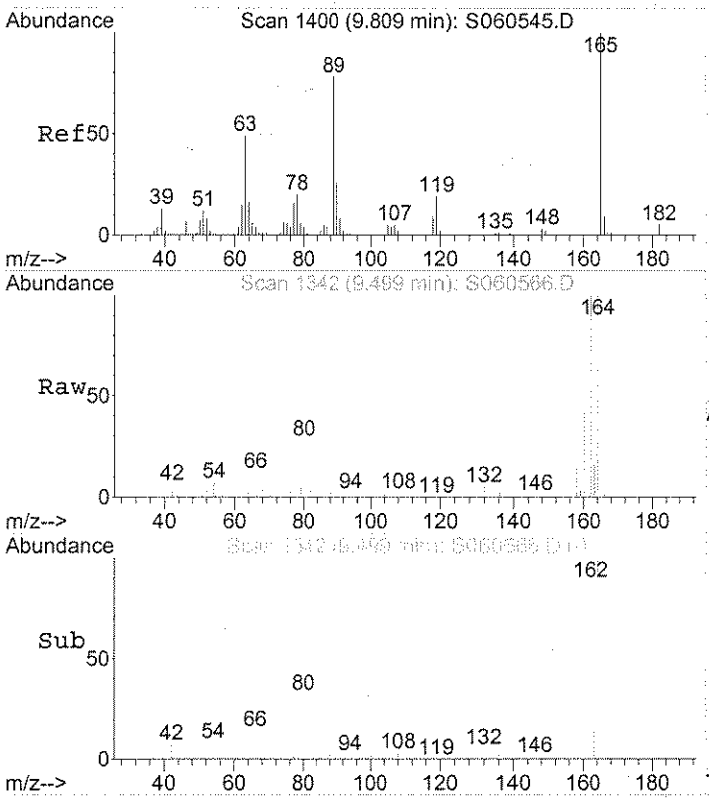


#49
2,4-Dinitrophenol
Concen: 0.29 mg/L
RT: 9.85 min Scan# 1407
Delta R.T. 0.23 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:184 Resp: 653

Ion	Ratio	Lower	Upper
184	100		
63	0.0	53.3	79.9#
154	0.0	27.8	41.6#

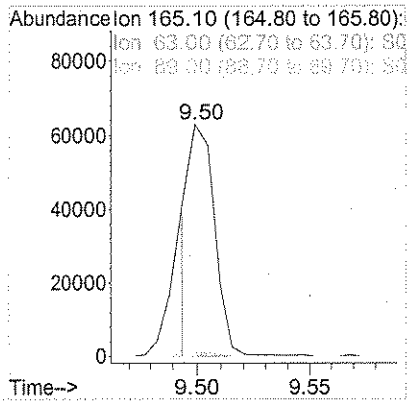


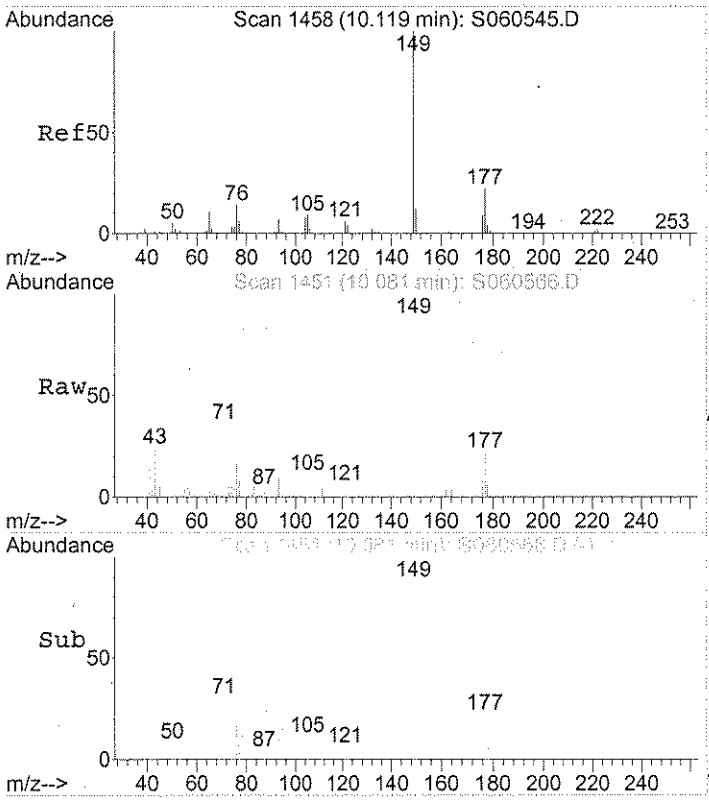


#52
2,4-Dinitrotoluene
Concen: 10.72 mg/L
RT: 9.50 min Scan# 1342
Delta R.T. -0.31 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:165 Resp: 46414

Ion	Ratio	Lower	Upper
165	100		
63	0.9	34.7	52.1#
89	1.5	53.1	79.7#

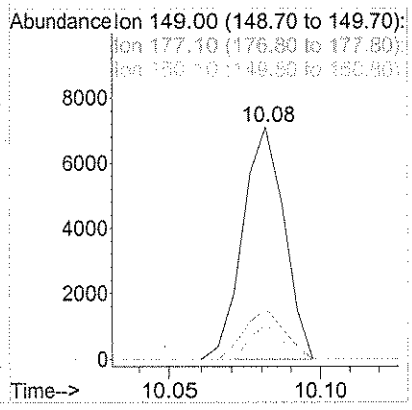


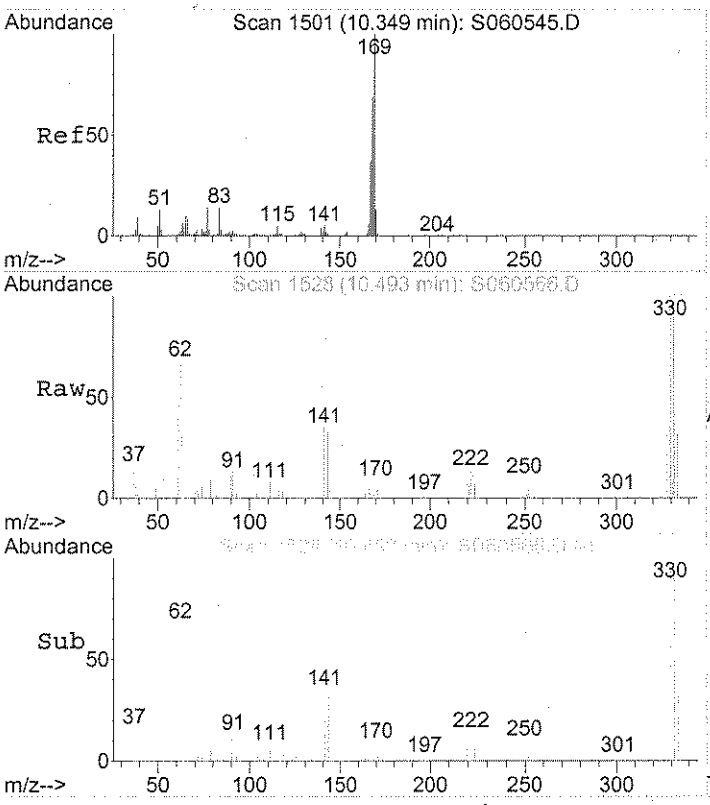


#54
Diethylphthalate
Concen: 0.47 mg/L
RT: 10.08 min Scan# 1451
Delta R.T. -0.04 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:149 Resp: 6889

Ion	Ratio	Lower	Upper
149	100		
177	20.9	17.5	26.3
150	11.7	9.6	14.4

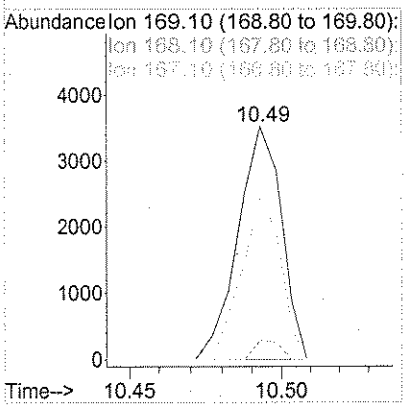


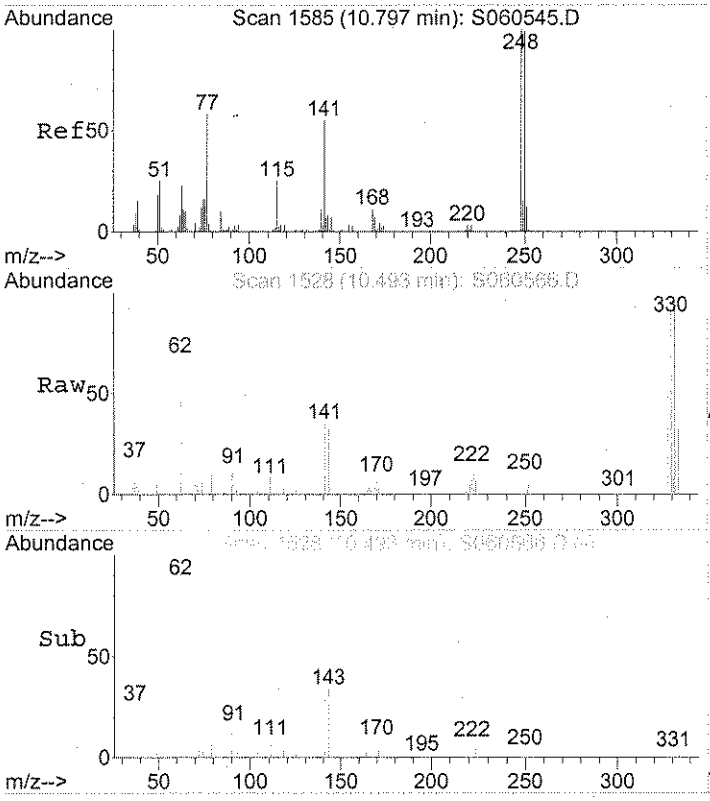


#59
N-Nitrosodiphenylamine
Concen: 0.35 mg/L
RT: 10.49 min Scan# 1528
Delta R.T. 0.14 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:169 Resp: 3592

Ion	Ratio	Lower	Upper
169	100		
168	4.8	54.0	81.0#
167	62.4	28.1	42.1#

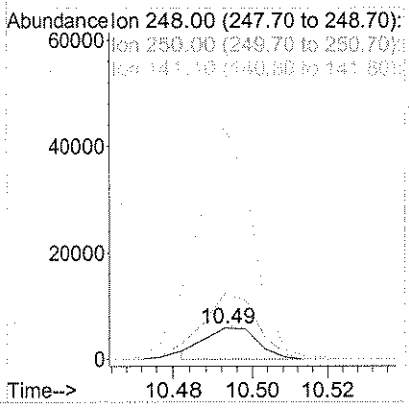


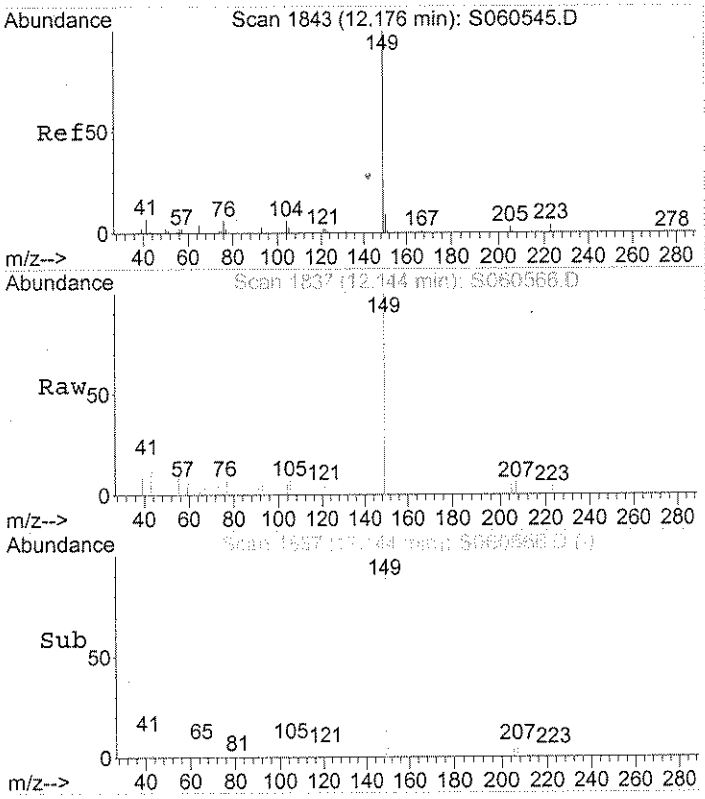


#62
4-Bromophenyl phenyl ether
Concen: 1.20 mg/L
RT: 10.49 min Scan# 1528
Delta R.T. -0.30 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:248 Resp: 5629

Ion	Ratio	Lower	Upper
248	100		
250	200.6	77.6	116.4#
141	675.6	49.4	74.0#

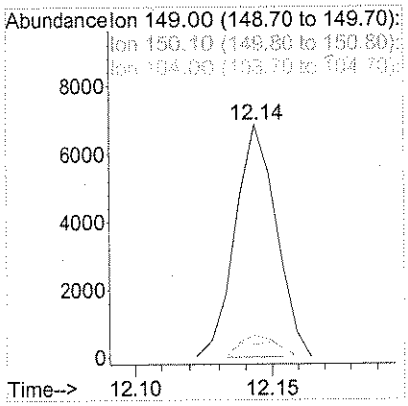


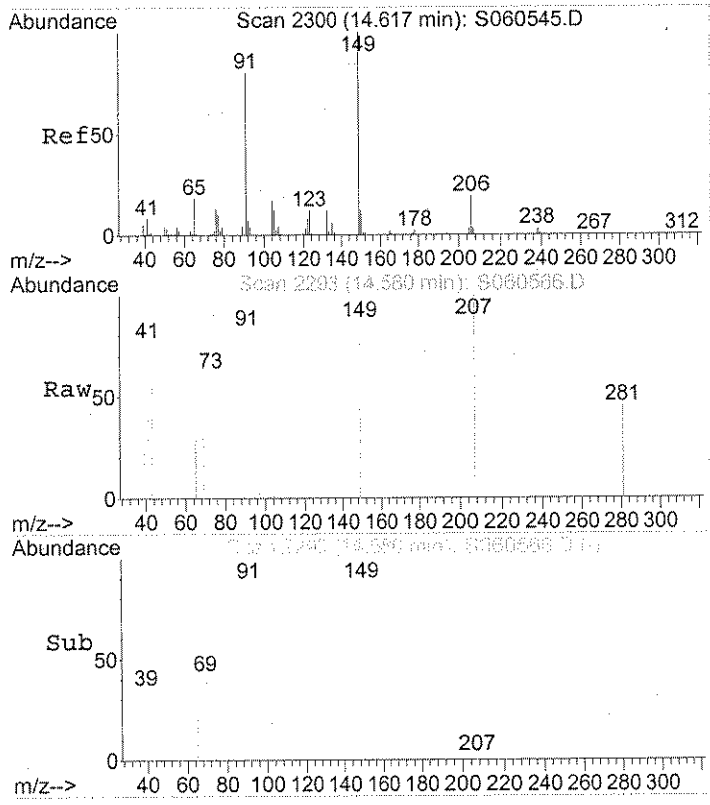


#68
Di-n-butylphthalate
Concen: 0.31 mg/L
RT: 12.14 min Scan# 1837
Delta R.T. -0.03 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:149 Resp: 7366

Ion	Ratio	Lower	Upper
149	100		
150	8.3	7.4	11.2
104	5.3	3.5	5.3#

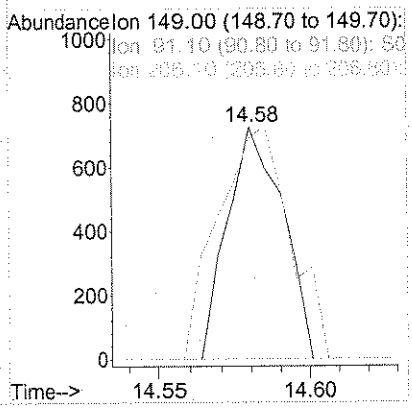


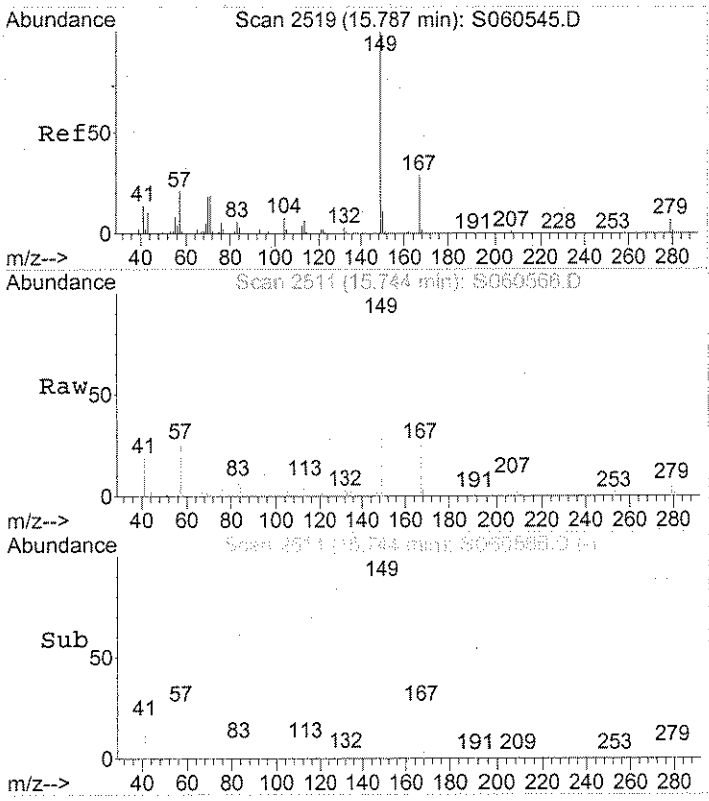


#74
Butylbenzylphthalate
Concen: 1.98 mg/L
RT: 14.58 min Scan# 2293
Delta R.T. -0.04 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:149 Resp: 945

Ion	Ratio	Lower	Upper
149	100		
91	128.8	56.8	85.2#
206	0.0	15.0	22.6#

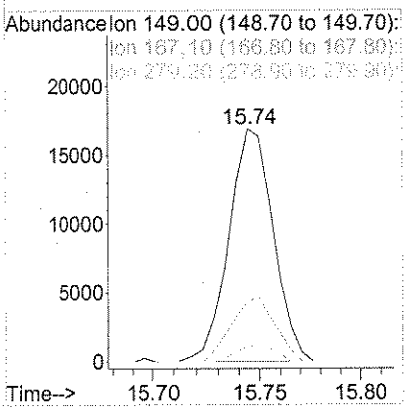




#78
Bis(2-ethylhexyl)phthalate
Concen: 1.77 mg/L
RT: 15.74 min Scan# 2511
Delta R.T. -0.04 min
Lab File: S060566.D
Acq: 24 Apr 2006 2:45 pm

Tgt Ion:149 Resp: 25124

Ion	Ratio	Lower	Upper
149	100		
167	26.8	22.6	33.8
279	5.9	4.9	7.3



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	03/30/2006	**Receive Date:**	04/03/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	L0600578
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
		Prep Date:	04/06/2006		
Prep Ref:	73376				

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:	Base Neutral / Acid Semivolatile Organic Compounds	**Report List ID:**	LJ1260
Tune Ref:		**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060567.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 15:19	**Quant Date:**	04/24/2006 15:48	**Vial:**	9
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-002			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.60	0.00?	152	221850	40.00	OK
2	Naphthalene-d8	7.25	0.01?	136	884675	40.00	OK
3	Acenaphthene-d10	9.50	0.01?	164	481890	40.00	OK
4	Phenanthrene-d10	11.34	0.00?	188	811285	40.00	OK
5	Chrysene-d12	15.59	0.00?	240	553112	40.00	OK
6	Perylene-d12	18.40	0.01?	264	251651	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.07	0.01	0.00	112	281909	42.39	85	45-101	OK	
1	Phenol-d5	5.19	0.00	0.00	99	378775	44.44	89	49-107	OK	
2	Nitrobenzene-d5	6.36	0.01	0.00	82	399216	50.41	101	58-105	OK	
3	2-Fluorobiphenyl	8.64	0.00	0.00	172	702152	48.08	96	50-101	OK	
4	2,4,6-Tribromophenol	10.50	0.01	0.00	330	129060	51.87	104	43-104	OK	
5	Terphenyl-d14	13.67	0.02	0.00	244	642467	50.86	102	34-120	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.43		0.00	88	498287**m**	165.33	160	E	
1	N-Nitrosodimethylamine				42	0**d**		2.8	U	
1	Pyridine				79	0**d**		2.9	U	
1	Aniline				93	0		3.0	U	
1	Phenol				94	0		1.0	U	
1	Bis(2-chloroethyl) Ether				93	0		1.0	U	
1	2-Chlorophenol				128	0		1.0	U	
1	1,3-Dichlorobenzene				146	0		1.0	U	
1	1,4-Dichlorobenzene				146	0		1.0	U	
1	Benzyl alcohol				108	0**d**		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060567.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 15:19	**Quant Date:**	04/24/2006 15:48	**Vial:**	9
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-002			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		1.0	U	
1	2-Methylphenol				108	0		1.0	U	
1	Bis(2-chloroisopropyl) Ether				45	0		1.0	U	
1	N-Nitrosodi-n-propylamine				70	0d		1.0	U	
1	Hexachloroethane				117	0		4.0	U	
1	3- and 4-Methylphenol Coelutio				107	0		1.0	U	
2	Nitrobenzene				77	0		1.0	U	
2	Isophorone				82	0		1.0	U	
2	2-Nitrophenol				139	0		1.0	U	
2	2,4-Dimethylphenol				122	0d		2.0	U	
2	bis(2-Chloroethoxy)methane				93	0		1.0	U	
2	2,4-Dichlorophenol				162	0		1.0	U	
2	1,2,4-Trichlorobenzene				180	0		1.5	U	
2	Benzoic acid	6.92	-0.09	-0.01	122	4865	3.82	3.6	J	
2	Naphthalene				128	0		1.0	U	
2	4-Chloroaniline				127	0		1.7	U	
2	Hexachlorobutadiene				225	0		1.6	U	
2	4-Chloro-3-methylphenol				107	0		1.0	U	
2	2-Methylnaphthalene				142	0		1.0	U	
3	Hexachlorocyclopentadiene				237	0		1.0	U	
3	2,4,6-Trichlorophenol				196	0		2.2	U	
3	2,4,5-Trichlorophenol				196	0		2.2	U	
3	2-Chloronaphthalene				162	0		1.0	U	
3	2-Nitroaniline				65	0		1.0	U	
3	Dimethyl Phthalate				163	0		1.0	U	
3	Acenaphthylene				152	0		1.0	U	
3	2,6-Dinitrotoluene				165	0d		1.8	U	
3	3-Nitroaniline				138	0		1.5	U	
3	Acenaphthene				154	0		1.0	U	
3	2,4-Dinitrophenol				184	0		1.5	U	
3	Dibenzofuran				168	0		1.0	U	
3	4-Nitrophenol				109	0d		1.7	U	
3	2,4-Dinitrotoluene				165	0d		1.0	U	
3	Fluorene				166	0		1.0	U	
3	Diethyl Phthalate	10.08		0.00	149	2977	0.2100	6.6	U	
3	4-Chlorophenyl Phenyl Ether				204	0		1.0	U	
3	4-Nitroaniline				138	0		1.9	U	
4	2-Methyl-4,6-dinitrophenol				198	0		1.5	U	
4	N-Nitrosodiphenylamine				169	0d		1.0	U	
4	4-Bromophenyl Phenyl Ether				248	0d		2.0	U	
4	Hexachlorobenzene				284	0		1.0	U	
4	Pentachlorophenol				266	0		1.4	U	
4	Phenanthrene				178	0		1.0	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060567.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 15:19	**Quant Date:**	04/24/2006 15:48	**Vial:**	9
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	L0600578-002			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		1.0	U	
4	Di-n-butyl Phthalate				149	0		2.0	U	
4	Fluoranthene				202	0		1.0	U	
5	Pyrene				202	0		1.0	U	
5	Butyl Benzyl Phthalate				149	0d		1.6	U	
5	Benz(a)anthracene				228	0		1.5	U	
5	3,3'-Dichlorobenzidine				252	0		3.5	U	
5	Chrysene				228	0		1.5	U	
5	Bis(2-ethylhexyl) Phthalate	15.76	0.02	0.00	149	1056897	99.12	94		
6	Di-n-octyl Phthalate				149	0		1.3	U	
6	Benzo(b)fluoranthene				252	0		1.7	U	
6	Benzo(k)fluoranthene				252	0		1.9	U	
6	Benzo(a)pyrene				252	0		1.8	U	
6	Indeno(1,2,3-cd)pyrene				276	0		3.8	U	
6	Dibenz(a,h)anthracene				278	0		3.4	U	
6	Benzo(g,h,i)perylene				276	0		4.1	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060567.D Vial: 9
Acq On : 24 Apr 2006 3:19 pm Operator: SC
Sample : L0600578-002 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:45:44 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

4/26/06

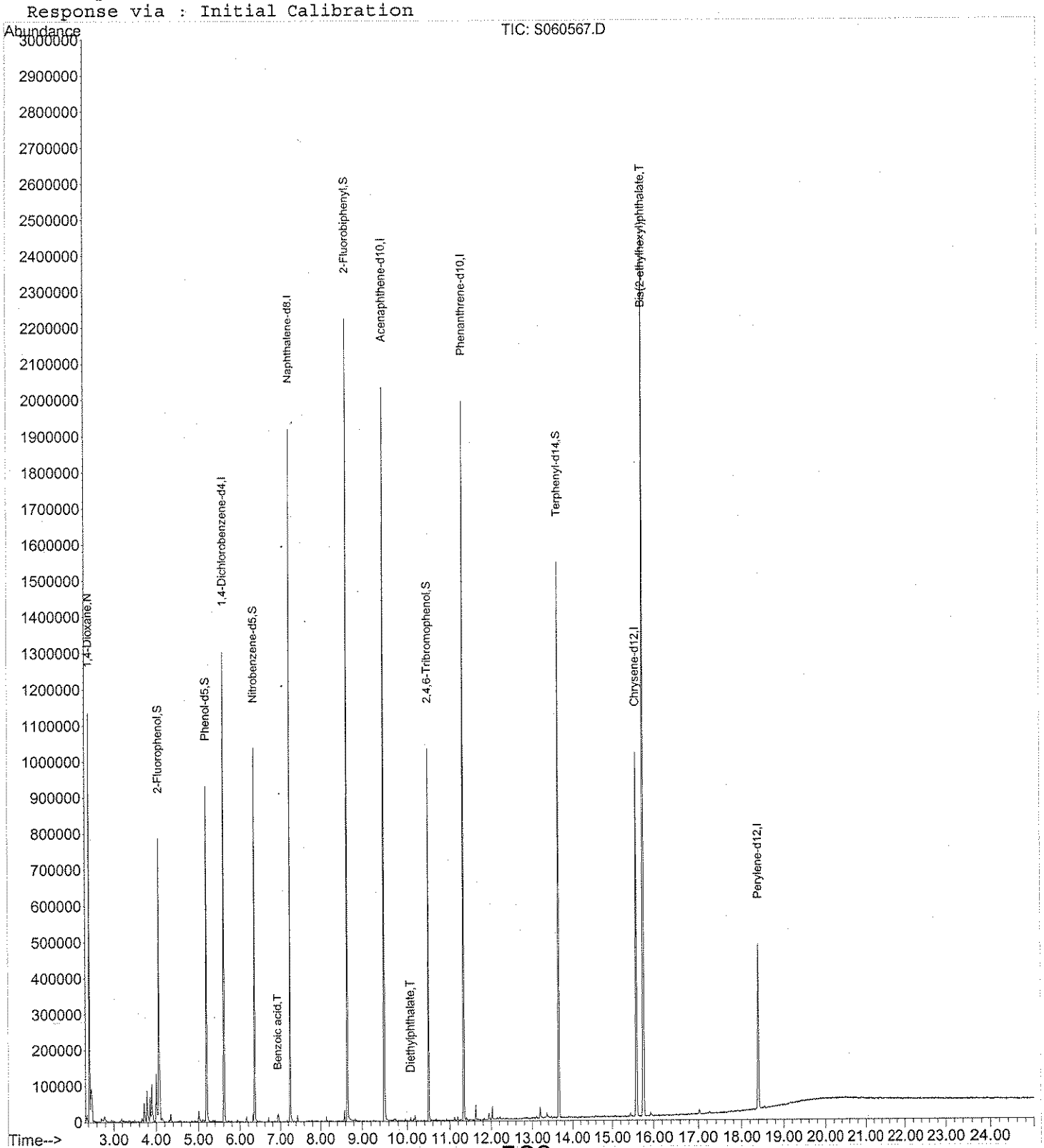
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	221850	40.00	mg/L	-0.02
22) Naphthalene-d8	7.25	136	884675	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.50	164	481890	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	811285	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	553112	40.00	mg/L	-0.04
80) Perylene-d12	18.40	264	251651	40.00	mg/L	-0.04
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	281909	42.39	mg/L	-0.02
Spiked Amount 50.000			Recovery =	84.78%		
7) Phenol-d5	5.19	99	378775	44.44	mg/L	-0.03
Spiked Amount 50.000			Recovery =	88.88%		
23) Nitrobenzene-d5	6.36	82	399216	50.41	mg/L	-0.02
Spiked Amount 50.000			Recovery =	100.82%		
41) 2-Fluorobiphenyl	8.64	172	702152	48.08	mg/L	-0.02
Spiked Amount 50.000			Recovery =	96.16%		
61) 2,4,6-Tribromophenol	10.50	330	129060	51.87	mg/L	-0.02
Spiked Amount 50.000			Recovery =	103.74%		
73) Terphenyl-d14	13.67	244	642467	50.86	mg/L	-0.03
Spiked Amount 50.000			Recovery =	101.72%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	498287m	165.33	mg/L	
31) Benzoic acid	6.92	122	4865	3.82	mg/L #	83
54) Diethylphthalate	10.08	149	2977	0.21	mg/L	95
78) Bis(2-ethylhexyl)phthalate	15.76	149	1056897	99.12	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060567.D Vial: 9
Acq On : 24 Apr 2006 3:19 pm Operator: SC
Sample : L0600578-002 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:48 2006 Quant Results File: BA060422.RES

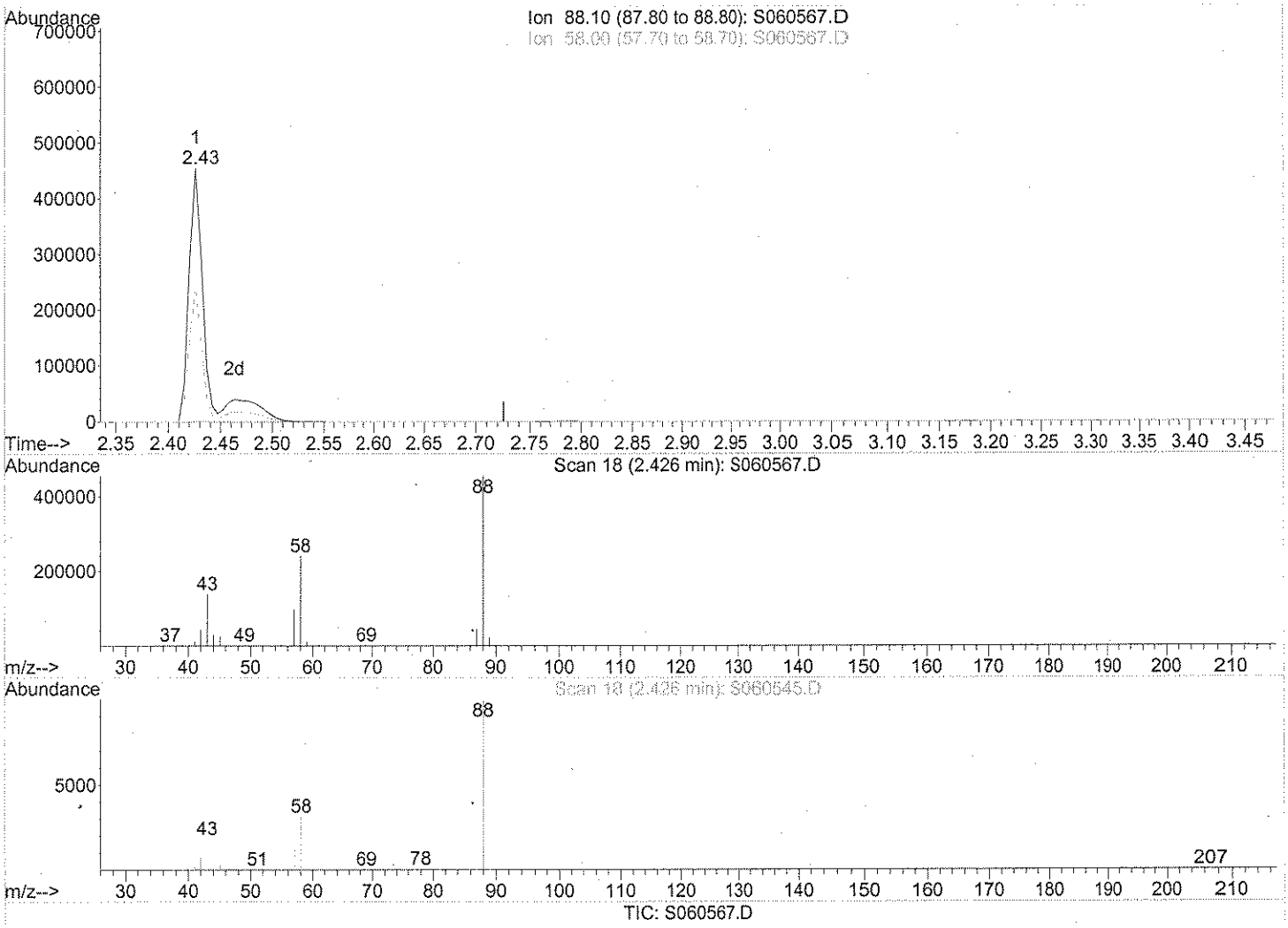
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060567.D Vial: 9
Acq On : 24 Apr 2006 3:19 pm Operator: SC
Sample : L0600578-002 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:46 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060567.D

(2) 1,4-Dioxane (N)

2.43min 165.33mg/L m

response 498287

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	40.74#
0.00	0.00	0.00
0.00	0.00	0.00

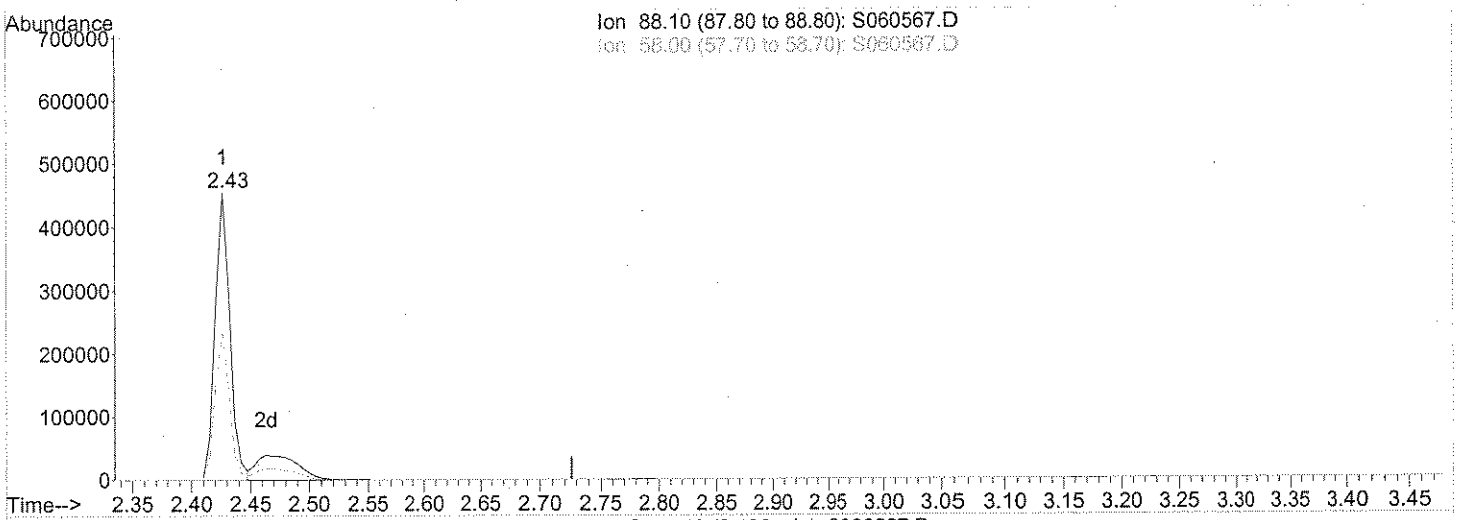
split peaks 4/24/06

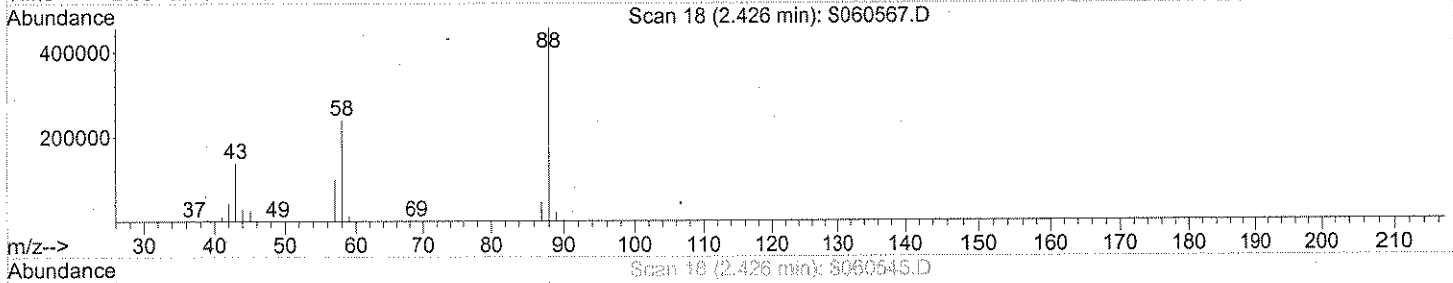
pdf 4/27/06

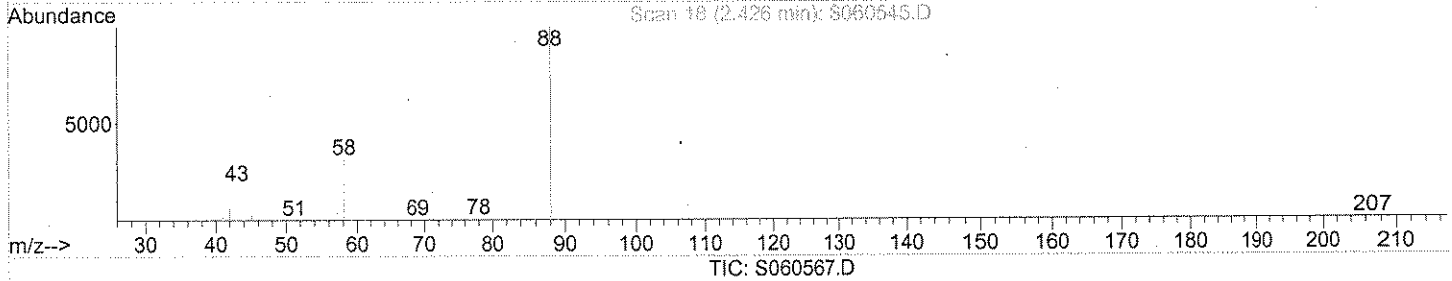
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060567.D Vial: 9
Acq On : 24 Apr 2006 3:19 pm Operator: SC
Sample : L0600578-002 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:45 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060567.D

(2) 1,4-Dioxane (N)

2.43min 133.12mg/L

response 401213

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	50.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060567.D Vial: 9
Acq On : 24 Apr 2006 3:19 pm Operator: SC
Sample : L0600578-002 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:45:44 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

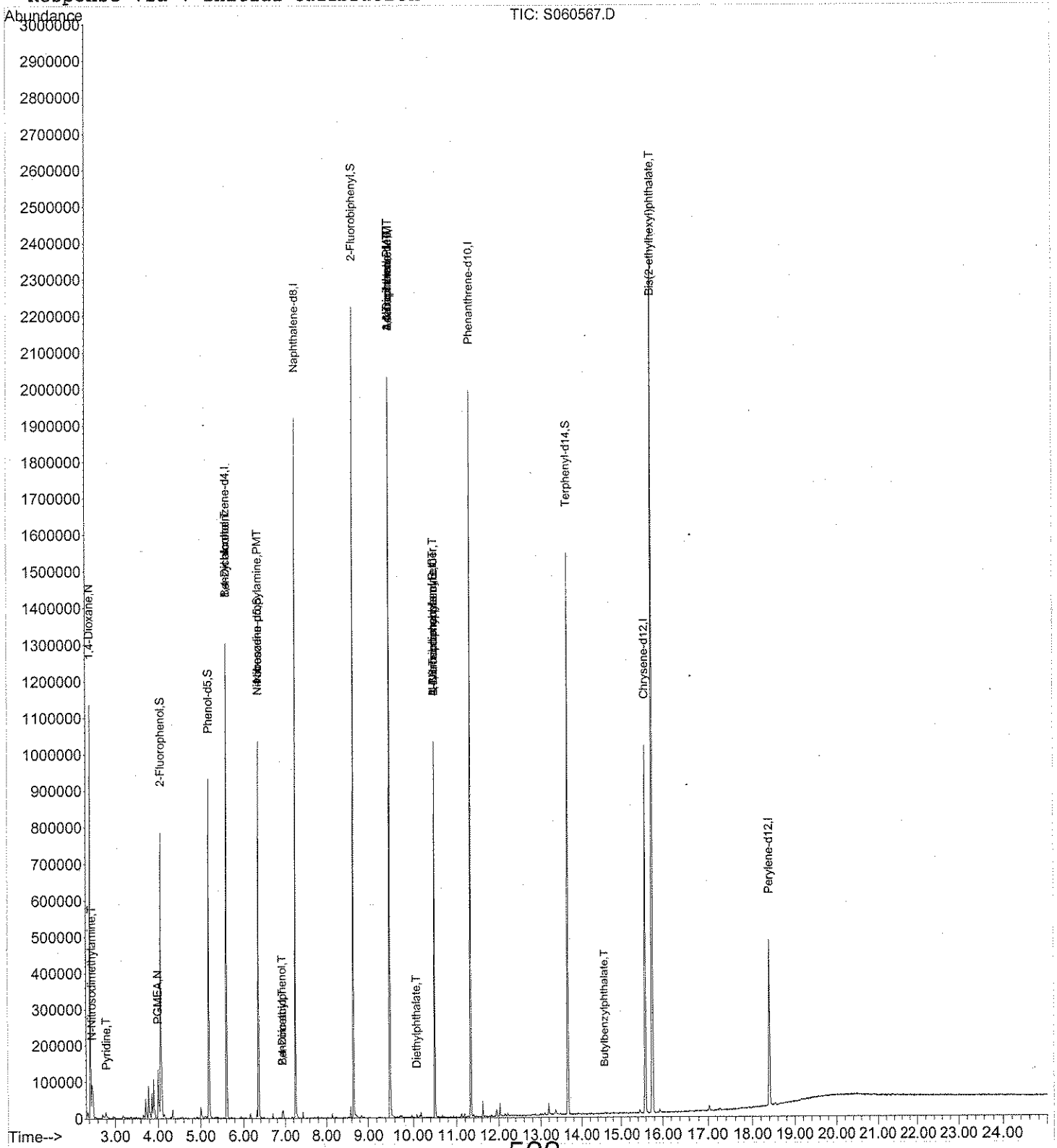
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	221850	40.00	mg/L	-0.02
22) Naphthalene-d8	7.25	136	884675	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.50	164	481890	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	811285	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	553112	40.00	mg/L	-0.04
80) Perylene-d12	18.40	264	251651	40.00	mg/L	-0.04
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	281909	42.39	mg/L	-0.02
Spiked Amount 50.000			Recovery =	84.78%		
7) Phenol-d5	5.19	99	378775	44.44	mg/L	-0.03
Spiked Amount 50.000			Recovery =	88.88%		
23) Nitrobenzene-d5	6.36	82	399216	50.41	mg/L	-0.02
Spiked Amount 50.000			Recovery =	100.82%		
41) 2-Fluorobiphenyl	8.64	172	702152	48.08	mg/L	-0.02
Spiked Amount 50.000			Recovery =	96.16%		
61) 2,4,6-Tribromophenol	10.50	330	129060	51.87	mg/L	-0.02
Spiked Amount 50.000			Recovery =	103.74%		
73) Terphenyl-d14	13.67	244	642467	50.86	mg/L	-0.03
Spiked Amount 50.000			Recovery =	101.72%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	401213	133.12	mg/L	86
3) N-Nitrosodimethylamine	2.47	42	8365	2.80	mg/L #	1
4) Pyridine	2.81	79	2094	0.26	mg/L #	64
5) PGMEA	4.00	43	17858	4.12	mg/L #	70
14) Benzyl alcohol	5.60	108	1127	0.27	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.36	70	59184	9.94	mg/L #	12
27) 2,4-Dimethylphenol	6.92	122	4865	0.77	mg/L #	6
31) Benzoic acid	6.92	122	4865	3.82	mg/L #	83
46) 2,6-Dinitrotoluene	9.50	165	62476	18.04	mg/L #	23
51) 4-Nitrophenol	9.50	109	1183	0.64	mg/L #	17
52) 2,4-Dinitrotoluene	9.50	165	44147	10.62	mg/L #	25
54) Diethylphthalate	10.08	149	2977	0.21	mg/L	95
59) N-Nitrosodiphenylamine	10.49	169	3416	0.35	mg/L #	39
62) 4-Bromophenyl phenyl ether	10.49	248	5620	1.25	mg/L #	1
74) Butylbenzylphthalate	14.58	149	982	2.01	mg/L #	70
78) Bis(2-ethylhexyl)phthalate	15.76	149	1056897	99.12	mg/L	99

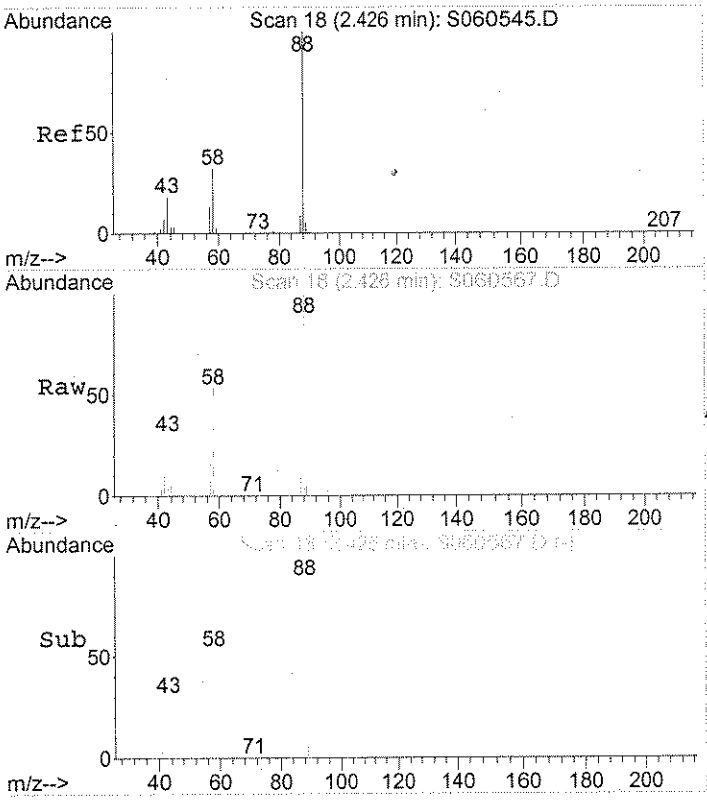
(#) = qualifier out of range (m) = manual integration
S060567.D BA060422.M Mon Apr 24 15:45:47 2006 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060567.D Vial: 9
Acq On : 24 Apr 2006 3:19 pm Operator: SC
Sample : L0600578-002 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 15:45 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

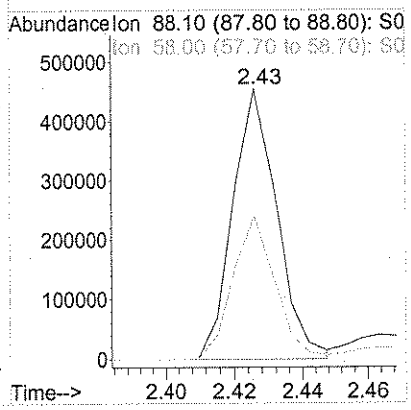


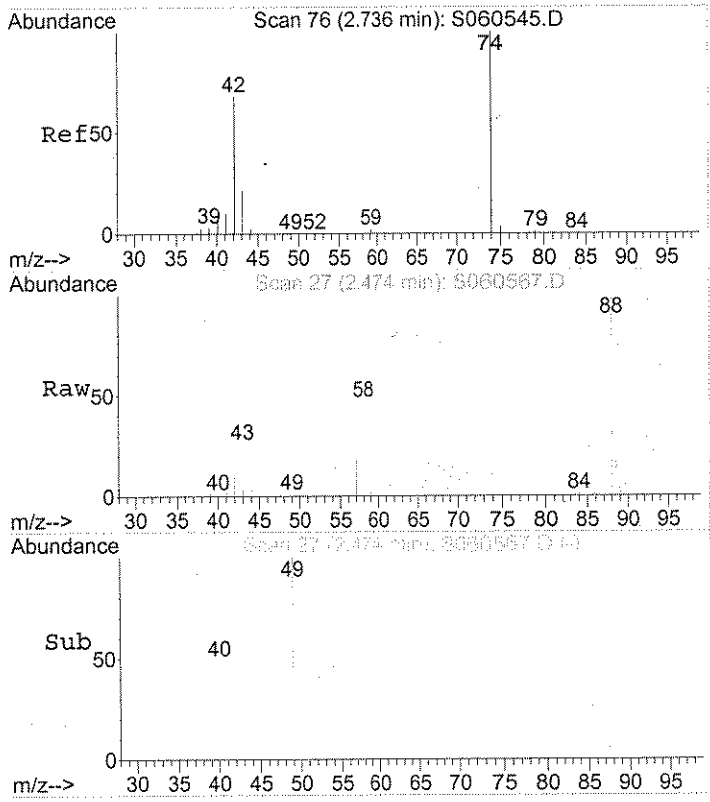


#2
1,4-Dioxane
Concen: 133.12 mg/L
RT: 2.43 min Scan# 18
Delta R.T. -0.00 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion: 88 Resp: 401213

Ion	Ratio	Lower	Upper
88	100		
58	50.6	49.0	73.6

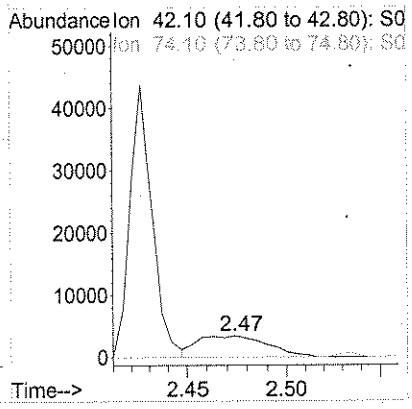


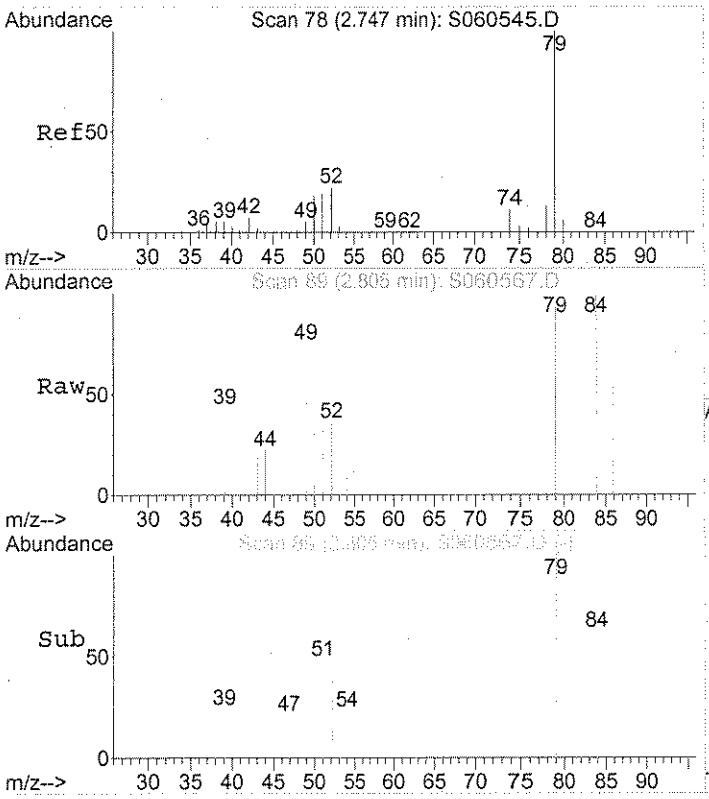


#3
N-Nitrosodimethylamine
Concen: 2.80 mg/L
RT: 2.47 min Scan# 27
Delta R.T. -0.26 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion: 42 Resp: 8365

Ion	Ratio	Lower	Upper
42	100		
74	5.4	92.4	138.6#

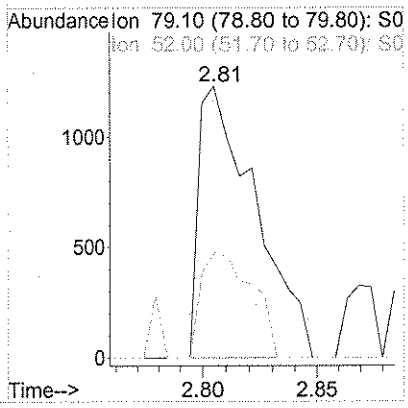


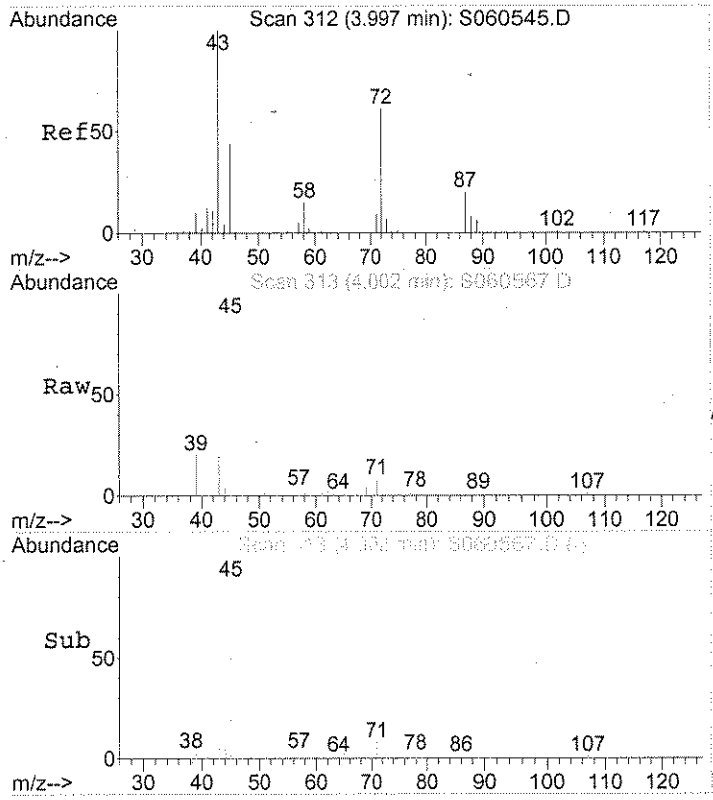


#4
Pyridine
Concen: 0.26 mg/L
RT: 2.81 min Scan# 89
Delta R.T. 0.06 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion: 79 Resp: 2094

Ion	Ratio	Lower	Upper
79	100		
52	35.0	49.9	74.9#

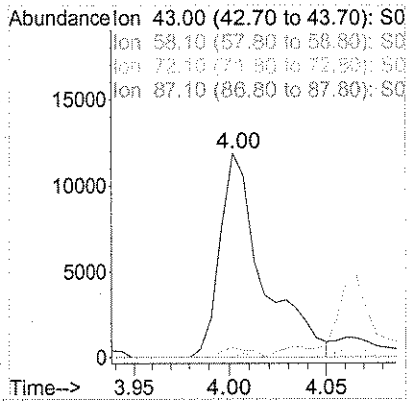


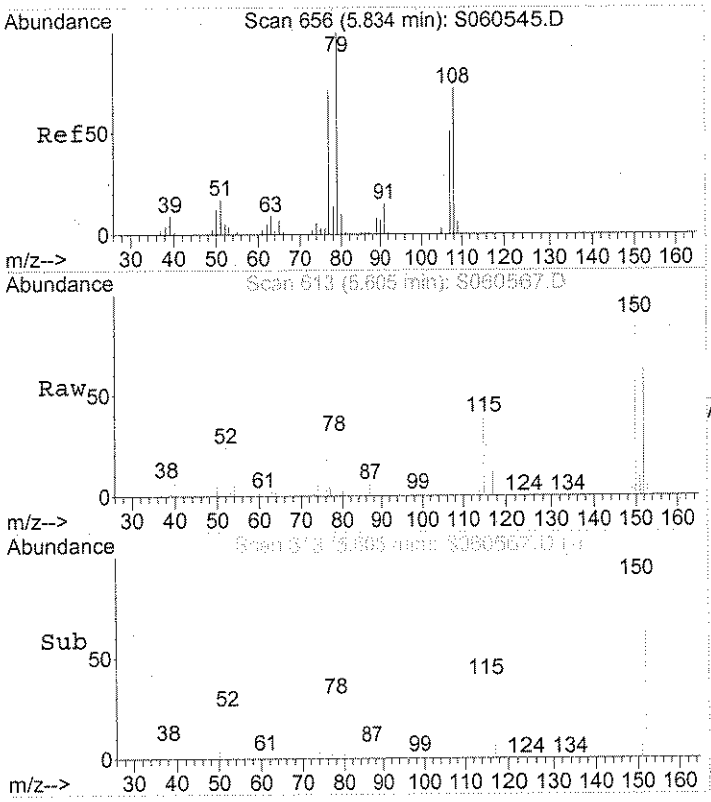


#5
PGMEA
Concen: 4.12 mg/L
RT: 4.00 min Scan# 313
Delta R.T. 0.01 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion: 43 Resp: 17858

Ion	Ratio	Lower	Upper
43	100		
58	3.2	8.0	12.0#
72	0.5	14.6	21.8#
87	0.0	5.1	7.7#

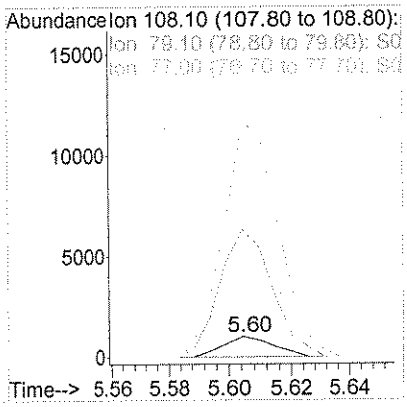


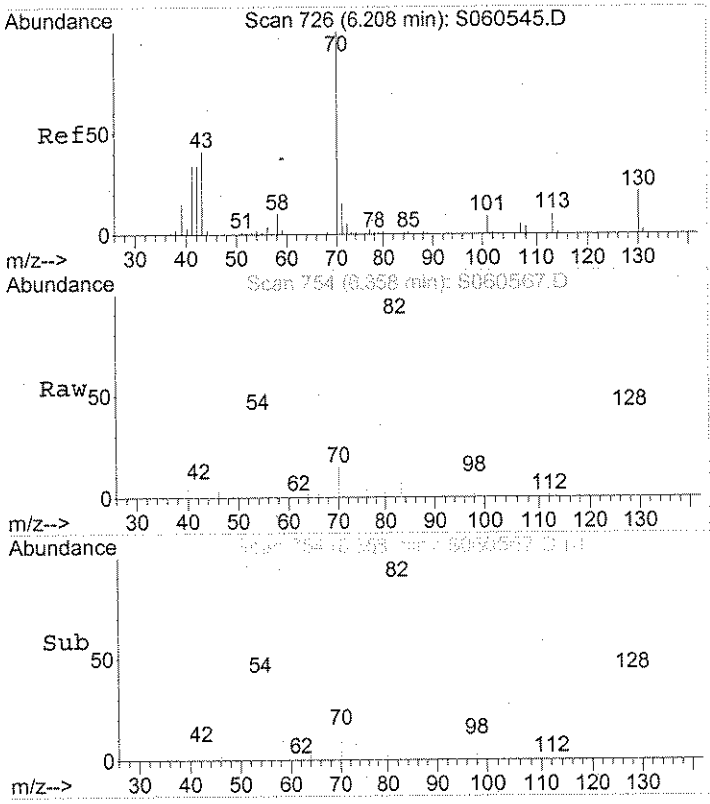


#14
Benzyl alcohol
Concen: 0.27 mg/L
RT: 5.60 min Scan# 613
Delta R.T. -0.23 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:108 Resp: 1127

Ion	Ratio	Lower	Upper
108	100		
79	655.6	93.8	140.8#
77	1265.7	61.0	91.4#

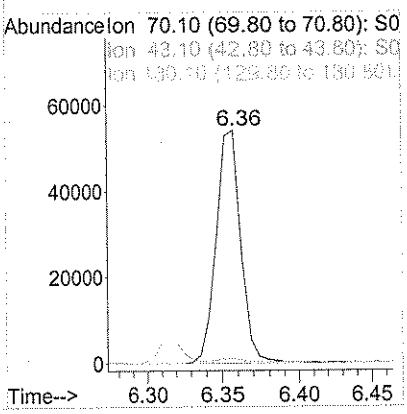


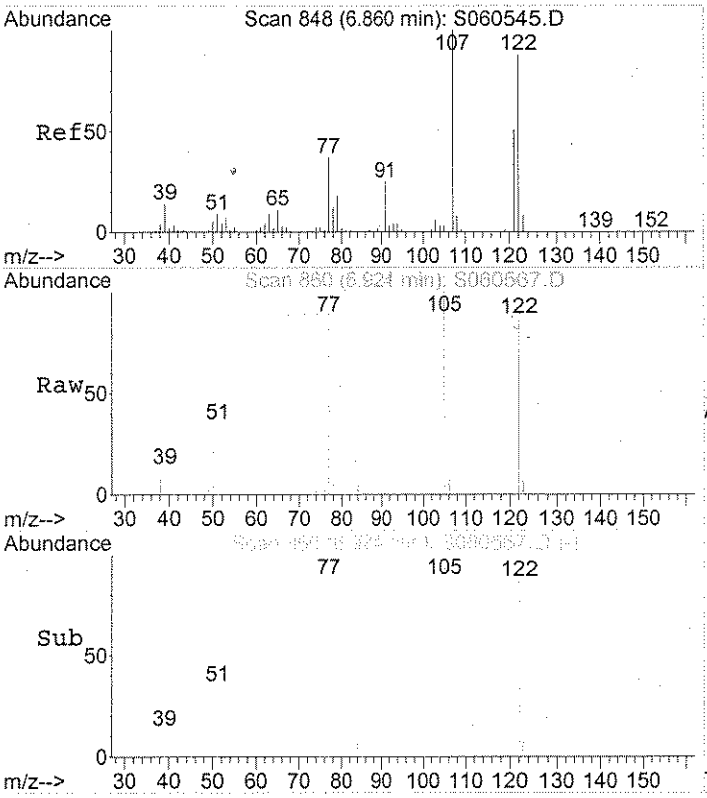


#19
N-Nitrosodi-n-propylamine
Concen: 9.94 mg/L
RT: 6.36 min Scan# 754
Delta R.T. 0.15 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion: 70 Resp: 59184

Ion	Ratio	Lower	Upper
70	100		
43	2.1	80.8	121.2#
130	1.8	19.1	28.7#

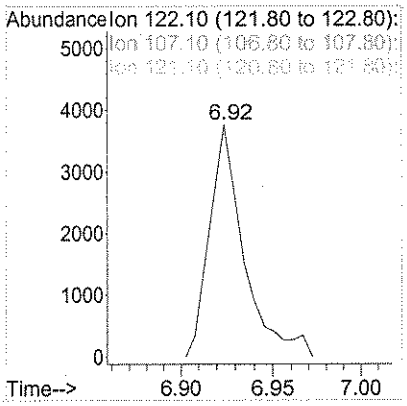


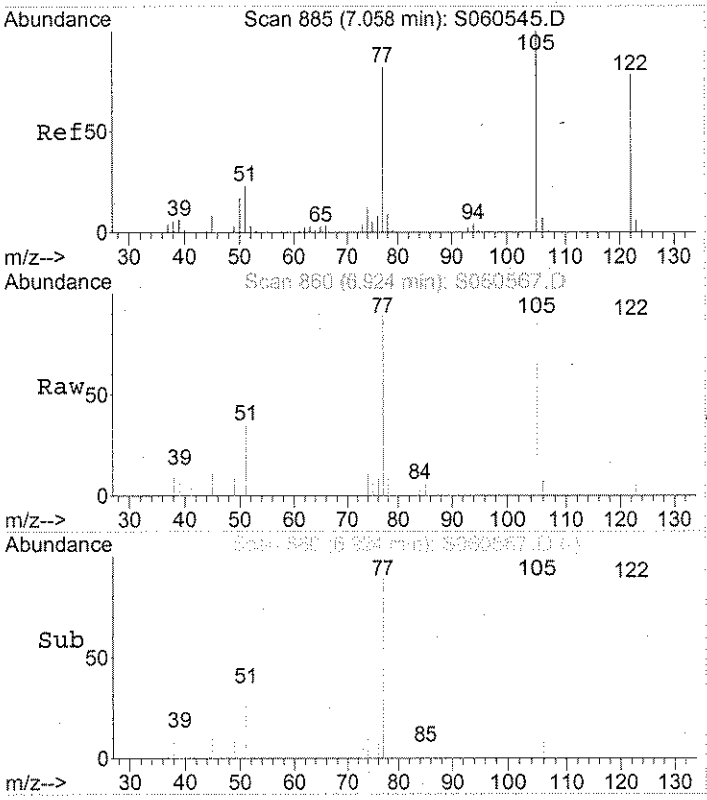


#27
2,4-Dimethylphenol
Concen: 0.77 mg/L
RT: 6.92 min Scan# 860
Delta R.T. 0.06 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:122 Resp: 4865

Ion	Ratio	Lower	Upper
122	100		
107	0.0	84.8	127.2#
121	0.0	46.1	69.1#

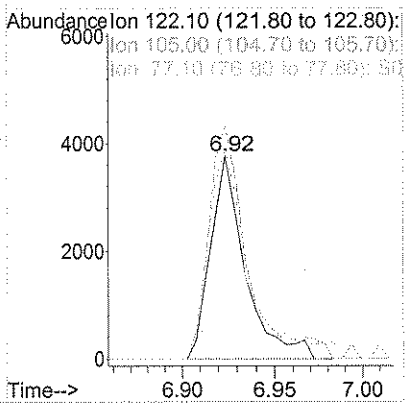


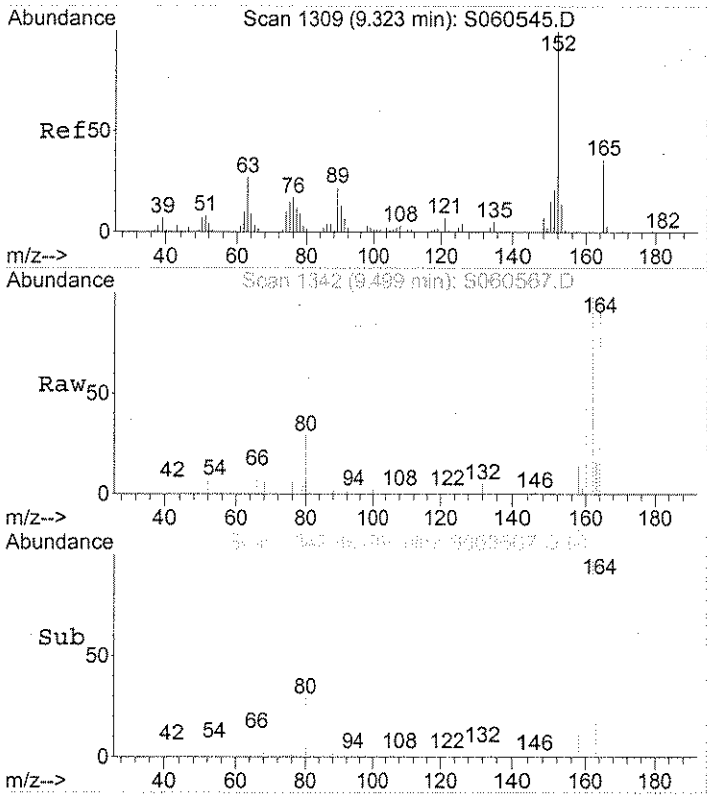


#31
Benzoic acid
Concen: 3.82 mg/L
RT: 6.92 min Scan# 860
Delta R.T. -0.13 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:122 Resp: 4865

Ion	Ratio	Lower	Upper
122	100		
105	128.3	93.8	140.6
77	108.1	67.5	101.3#

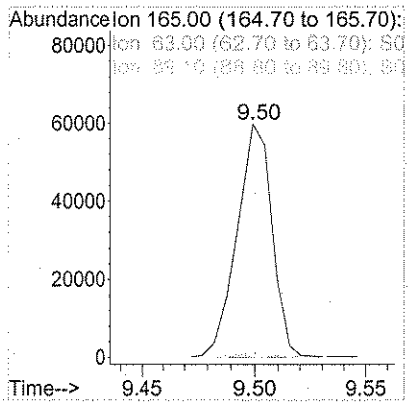


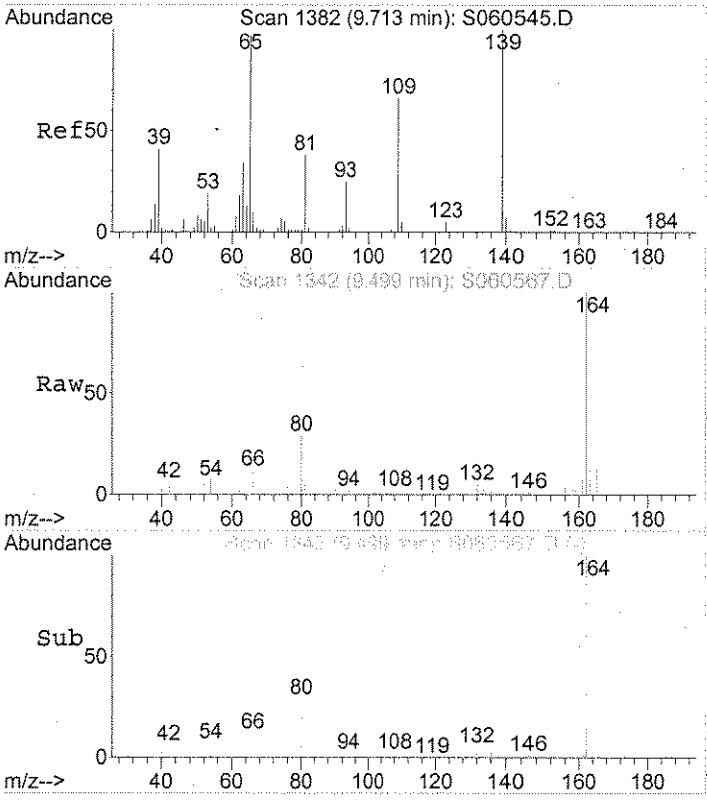


#46
2,6-Dinitrotoluene
Concen: 18.04 mg/L
RT: 9.50 min Scan# 1342
Delta R.T. 0.18 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:165 Resp: 62476

Ion	Ratio	Lower	Upper
165	100		
63	0.3	54.4	81.6#
89	1.8	36.9	55.3#

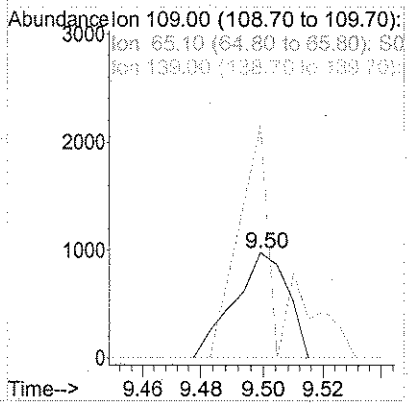


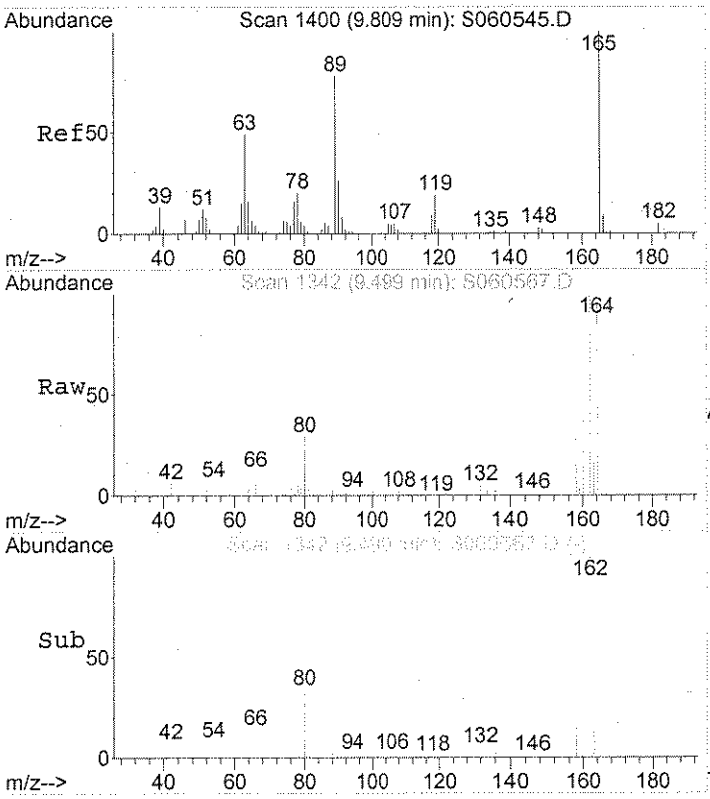


#51
4-Nitrophenol
Concen: 0.64 mg/L
RT: 9.50 min Scan# 1342
Delta R.T. -0.21 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:109 Resp: 1183

Ion	Ratio	Lower	Upper
109	100		
65	167.0	158.2	237.4
139	0.0	178.5	267.7#

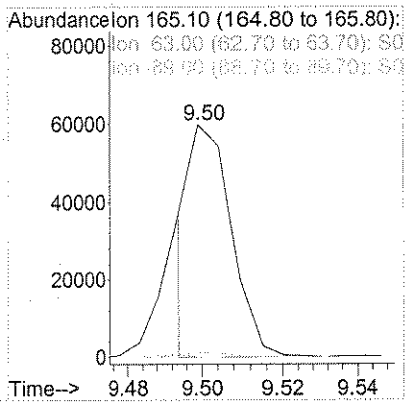


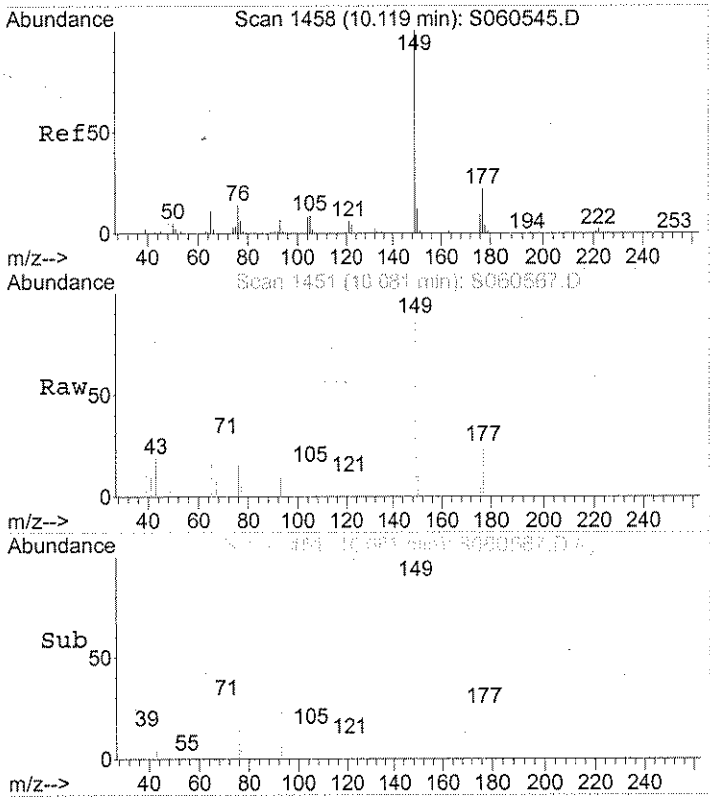


#52
2,4-Dinitrotoluene
Concen: 10.62 mg/L
RT: 9.50 min Scan# 1342
Delta R.T. -0.31 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:165 Resp: 44147

Ion	Ratio	Lower	Upper
165	100		
63	0.4	34.7	52.1#
89	1.8	53.1	79.7#

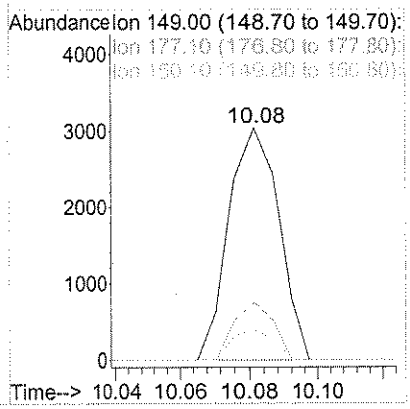


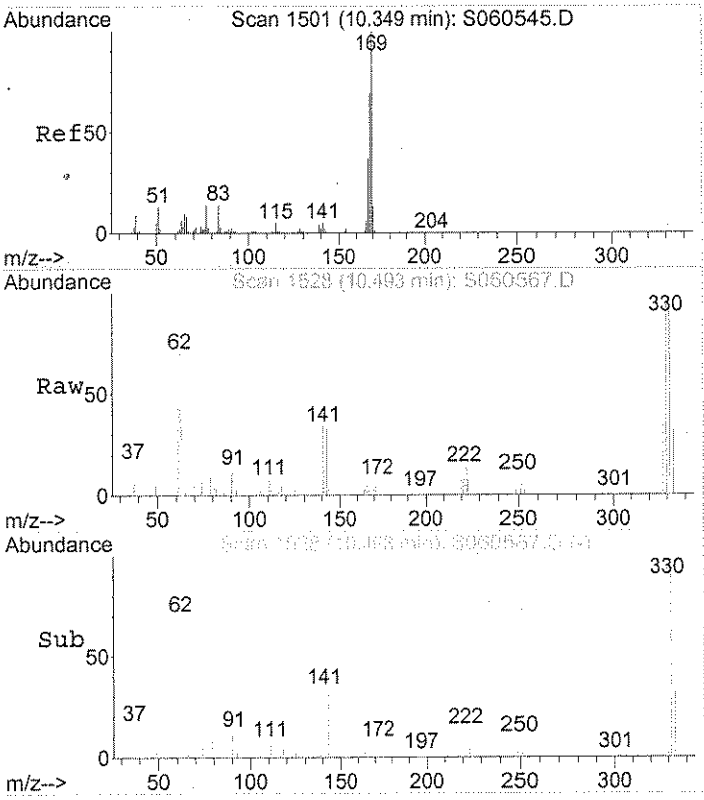


#54
Diethylphthalate
Concen: 0.21 mg/L
RT: 10.08 min Scan# 1451
Delta R.T. -0.04 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:149 Resp: 2977

Ion	Ratio	Lower	Upper
149	100		
177	19.2	17.5	26.3
150	10.5	9.6	14.4

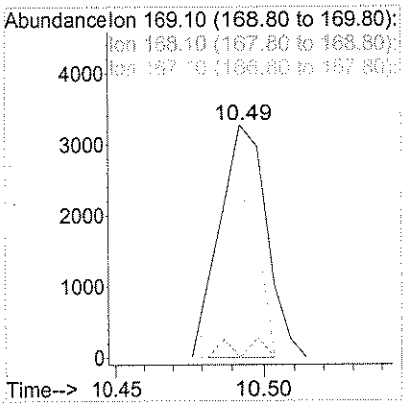


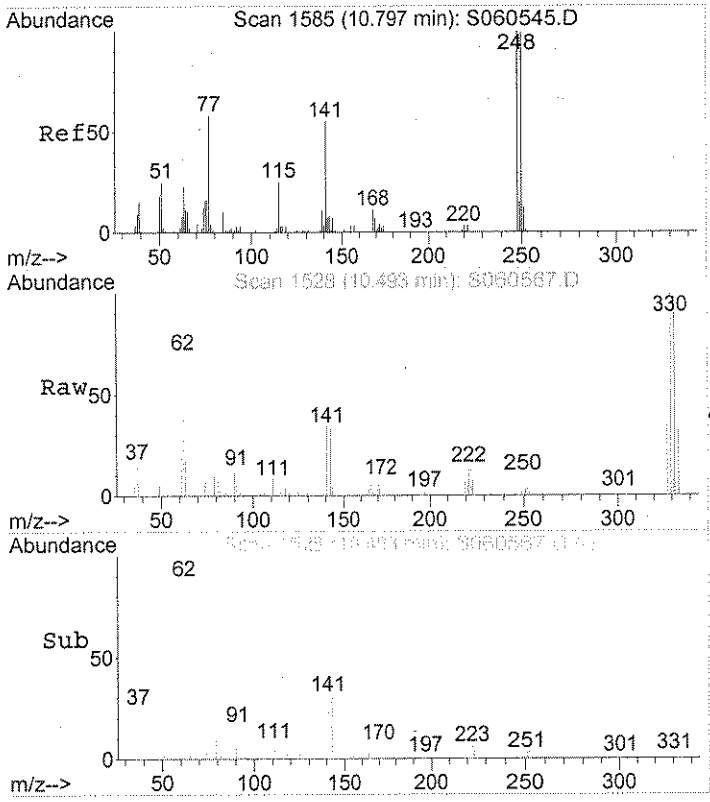


#59
N-Nitrosodiphenylamine
Concen: 0.35 mg/L
RT: 10.49 min Scan# 1528
Delta R.T. 0.14 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:169 Resp: 3416

Ion	Ratio	Lower	Upper
169	100		
168	5.0	54.0	81.0#
167	52.6	28.1	42.1#

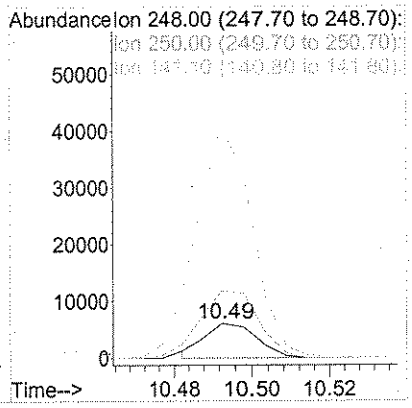


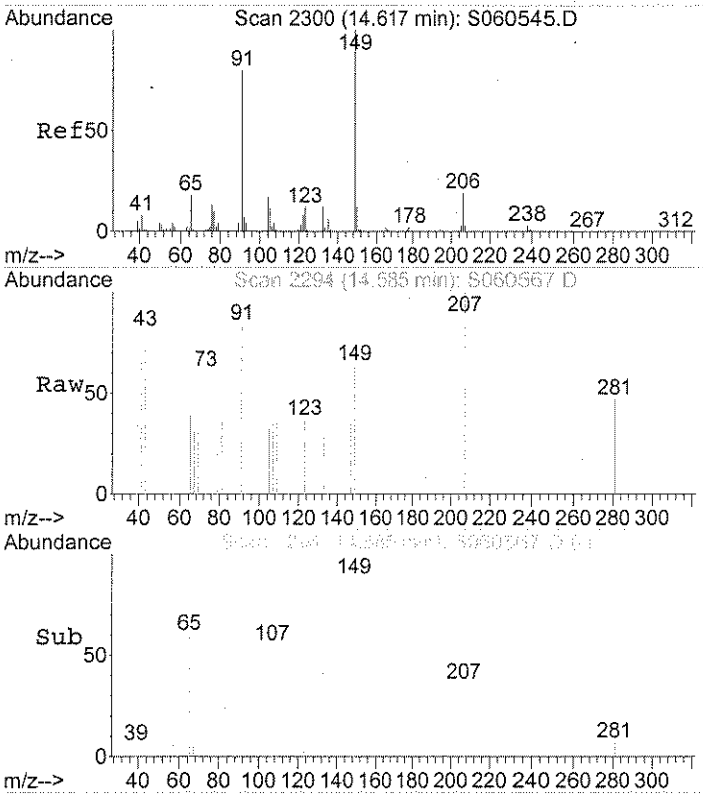


#62
4-Bromophenyl phenyl ether
Concen: 1.25 mg/L
RT: 10.49 min Scan# 1528
Delta R.T. -0.30 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:248 Resp: 5620

Ion	Ratio	Lower	Upper
248	100		
250	202.6	77.6	116.4#
141	652.0	49.4	74.0#

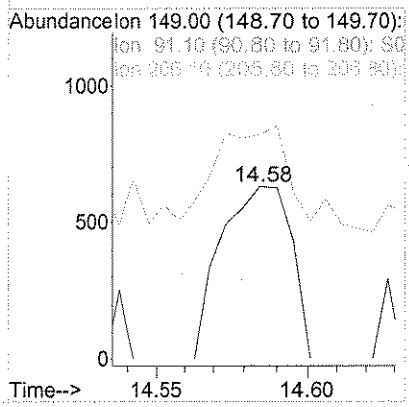


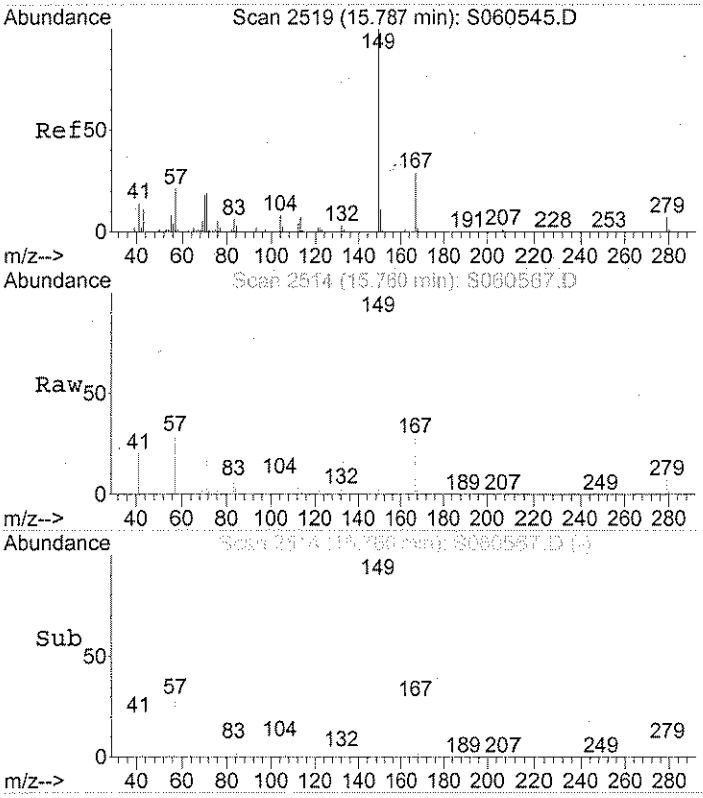


#74
Butylbenzylphthalate
Concen: 2.01 mg/L
RT: 14.58 min Scan# 2294
Delta R.T. -0.03 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:149 Resp: 982

Ion	Ratio	Lower	Upper
149	100		
91	93.1	56.8	85.2#
206	0.0	15.0	22.6#

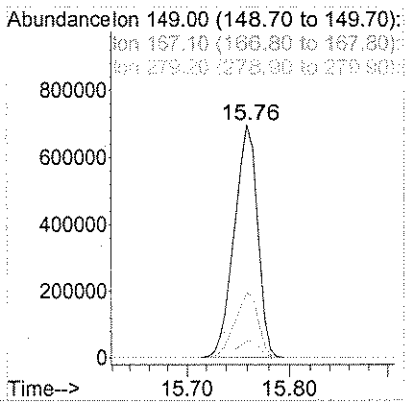




#78
Bis(2-ethylhexyl)phthalate
Concen: 99.12 mg/L
RT: 15.76 min Scan# 2514
Delta R.T. -0.03 min
Lab File: S060567.D
Acq: 24 Apr 2006 3:19 pm

Tgt Ion:149 Resp: 1056897

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.6	33.8
279	7.1	4.9	7.3



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	03/30/2006	**Receive Date:**	04/03/2006

Analysis Lot:	LWG0600549	**Prep Lot:**	LWG0600535	**Report Group:**	L0600578
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
		Prep Date:	04/06/2006		
Prep Ref:	73376				

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:	Base Neutral / Acid Semivolatile Organic Compounds	**Report List ID:**	LJ1260
Tune Ref:		**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060572.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 19:42	**Quant Date:**	04/25/2006 08:29	**Vial:**	14
Run Type:	SMPL			**Dilution:**	10.0
Lab ID:	L0600578-002			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.62	0.02?	152	226116	40.00	OK
2	Naphthalene-d8	7.26	0.02?	136	885968	40.00	OK
3	Acenaphthene-d10	9.51	0.02?	164	483023	40.00	OK
4	Phenanthrene-d10	11.36	0.02?	188	789517	40.00	OK
5	Chrysene-d12	15.62	0.03?	240	516675	40.00	OK
6	Perylene-d12	18.43	0.04?	264	210356	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.07	0.01	0.00	112	24401	3.60	72	45-101	OK	
1	Phenol-d5	5.20	0.01	0.00	99	29361	3.38	68	49-107	OK	
2	Nitrobenzene-d5	6.36	0.01	0.00	82	32715	4.12	82	58-105	OK	
3	2-Fluorobiphenyl	8.65	0.01	0.00	172	64224	4.39	88	50-101	OK	
4	2,4,6-Tribromophenol	10.51	0.02	0.00	330	9484	3.92	78	43-104	OK	
5	Terphenyl-d14	13.68	0.03	0.00	244	53733	4.55	91	34-120	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.43		0.00	88	47288m	15.39	150	D	
1	N-Nitrosodimethylamine				42	0		28	U	
1	Pyridine				79	0		29	U	
1	Aniline				93	0		30	U	
1	Phenol				94	0		10	U	
1	Bis(2-chloroethyl) Ether				93	0		10	U	
1	2-Chlorophenol				128	0		10	U	
1	1,3-Dichlorobenzene				146	0		10	U	
1	1,4-Dichlorobenzene				146	0		10	U	
1	Benzyl alcohol				108	0d		10	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060572.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 19:42	**Quant Date:**	04/25/2006 08:29	**Vial:**	14
Run Type:	SMPL			**Dilution:**	10.0
Lab ID:	L0600578-002			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		10	U	
1	2-Methylphenol				108	0		10	U	
1	Bis(2-chloroisopropyl) Ether				45	0		10	U	
1	N-Nitrosodi-n-propylamine				70	0d		10	U	
1	Hexachloroethane				117	0		40	U	
1	3- and 4-Methylphenol Coelutio				107	0		10	U	
2	Nitrobenzene				77	0		10	U	
2	Isophorone				82	0		10	U	
2	2-Nitrophenol				139	0		10	U	
2	2,4-Dimethylphenol				122	0		20	U	
2	bis(2-Chloroethoxy)methane				93	0		10	U	
2	2,4-Dichlorophenol				162	0		10	U	
2	1,2,4-Trichlorobenzene				180	0		15	U	
2	Benzoic acid				122	0		27	U	
2	Naphthalene				128	0		10	U	
2	4-Chloroaniline				127	0		17	U	
2	Hexachlorobutadiene				225	0		16	U	
2	4-Chloro-3-methylphenol				107	0		10	U	
2	2-Methylnaphthalene				142	0		10	U	
3	Hexachlorocyclopentadiene				237	0		10	U	
3	2,4,6-Trichlorophenol				196	0		22	U	
3	2,4,5-Trichlorophenol				196	0		22	U	
3	2-Chloronaphthalene				162	0		10	U	
3	2-Nitroaniline				65	0		10	U	
3	Dimethyl Phthalate				163	0		10	U	
3	Acenaphthylene				152	0		10	U	
3	2,6-Dinitrotoluene				165	0d		18	U	
3	3-Nitroaniline				138	0		15	U	
3	Acenaphthene				154	0		10	U	
3	2,4-Dinitrophenol				184	0		15	U	
3	Dibenzofuran				168	0		10	U	
3	4-Nitrophenol				109	0d		17	U	
3	2,4-Dinitrotoluene				165	0d		10	U	
3	Fluorene				166	0		10	U	
3	Diethyl Phthalate				149	0		66	U	
3	4-Chlorophenyl Phenyl Ether				204	0		10	U	
3	4-Nitroaniline				138	0		19	U	
4	2-Methyl-4,6-dinitrophenol				198	0		15	U	
4	N-Nitrosodiphenylamine				169	0		10	U	
4	4-Bromophenyl Phenyl Ether				248	0		20	U	
4	Hexachlorobenzene				284	0		10	U	
4	Pentachlorophenol				266	0		14	U	
4	Phenanthrene				178	0		10	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060572.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 19:42	**Quant Date:**	04/25/2006 08:29	**Vial:**	14
Run Type:	SMPL			**Dilution:**	10.0
Lab ID:	L0600578-002			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		10	U	
4	Di-n-butyl Phthalate				149	0		20	U	
4	Fluoranthene				202	0		10	U	
5	Pyrene				202	0		10	U	
5	Butyl Benzyl Phthalate				149	0		16	U	
5	Benz(a)anthracene				228	0		15	U	
5	3,3'-Dichlorobenzidine				252	0		35	U	
5	Chrysene				228	0		15	U	
5	Bis(2-ethylhexyl) Phthalate	15.78	0.04	0.00	149	88841	8.92	85	D	
6	Di-n-octyl Phthalate				149	0		13	U	
6	Benzo(b)fluoranthene				252	0		17	U	
6	Benzo(k)fluoranthene				252	0		19	U	
6	Benzo(a)pyrene				252	0		18	U	
6	Indeno(1,2,3-cd)pyrene				276	0		38	U	
6	Dibenz(a,h)anthracene				278	0		34	U	
6	Benzo(g,h,i)perylene				276	0		41	U	

Prep Amount:	1050 ml	**Dilution:**	10.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060572.D Vial: 14
Acq On : 24 Apr 2006 7:42 pm Operator: SC
Sample : L0600578-002;10 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 08:28:49 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

4/25/06

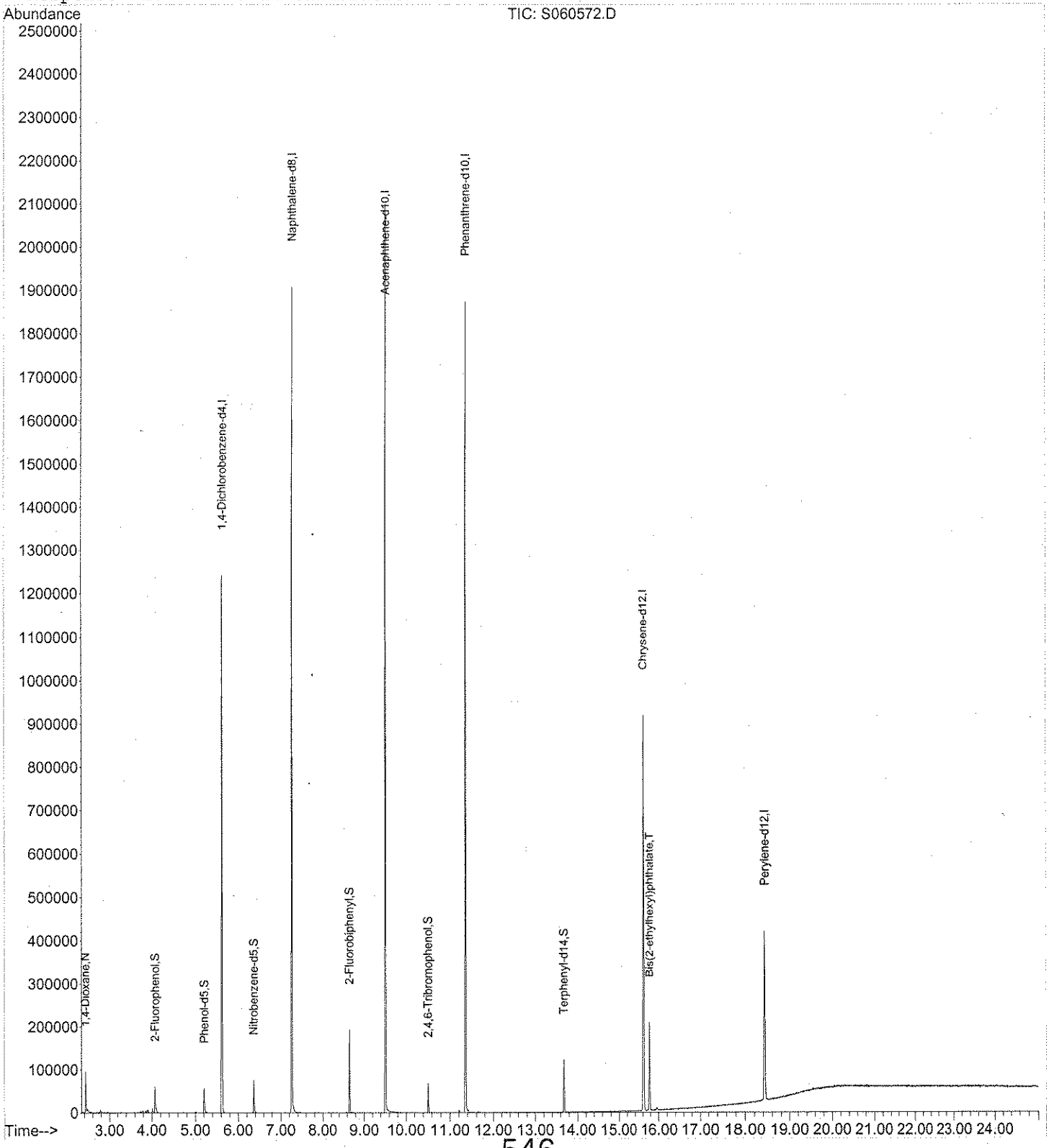
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	226116	40.00	mg/L	0.00
22) Naphthalene-d8	7.26	136	885968	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.51	164	483023	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	789517	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	516675	40.00	mg/L	-0.01
80) Perylene-d12	18.43	264	210356	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	24401	3.60	mg/L	-0.01
Spiked Amount 50.000			Recovery =	7.20%		
7) Phenol-d5	5.20	99	29361	3.38	mg/L	-0.02
Spiked Amount 50.000			Recovery =	6.76%		
23) Nitrobenzene-d5	6.36	82	32715	4.12	mg/L	-0.01
Spiked Amount 50.000			Recovery =	8.24%		
41) 2-Fluorobiphenyl	8.65	172	64224	4.39	mg/L	-0.01
Spiked Amount 50.000			Recovery =	8.78%		
61) 2,4,6-Tribromophenol	10.51	330	9484	3.92	mg/L	-0.01
Spiked Amount 50.000			Recovery =	7.84%		
73) Terphenyl-d14	13.68	244	53733	4.55	mg/L	-0.02
Spiked Amount 50.000			Recovery =	9.10%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	47288m	15.39	mg/L	
78) Bis(2-ethylhexyl)phthalate	15.78	149	88841	8.92	mg/L	99

(#) = qualifier out of range (m) = manual integration
S060572.D BA060422.M Tue Apr 25 08:30:06 2006 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060572.D Vial: 14
Acq On : 24 Apr 2006 7:42 pm Operator: SC
Sample : L0600578-002;10 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:29 2006 Quant Results File: BA060422.RES

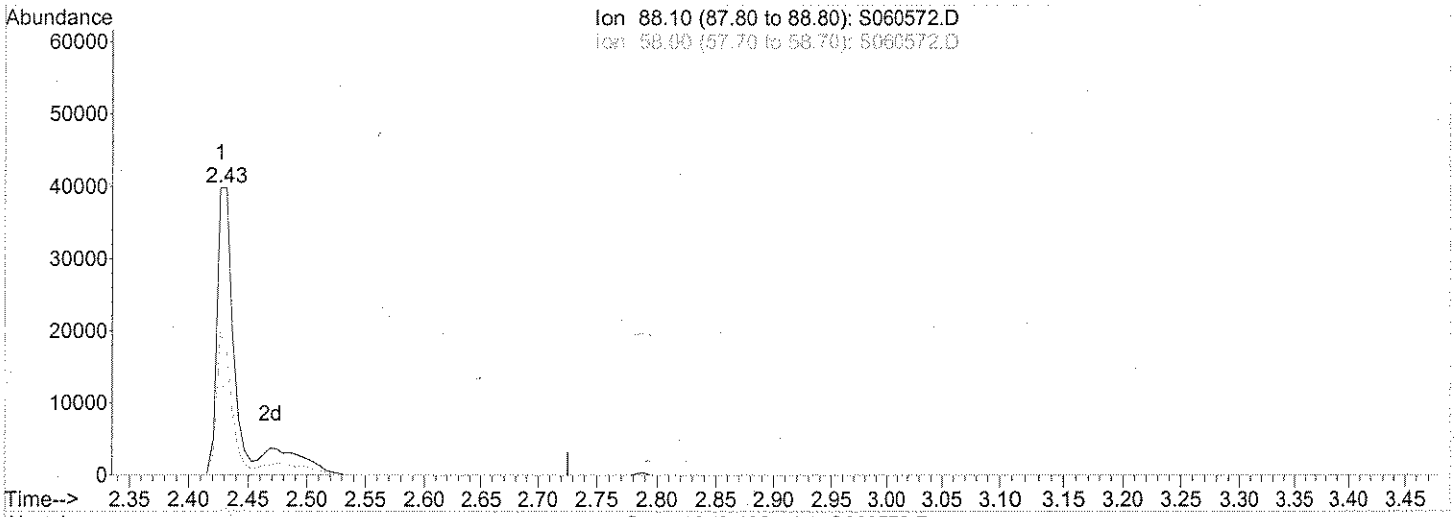
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

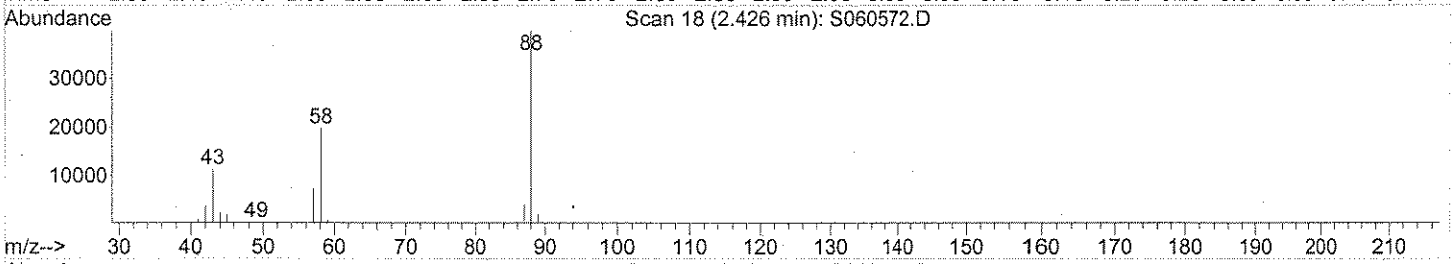


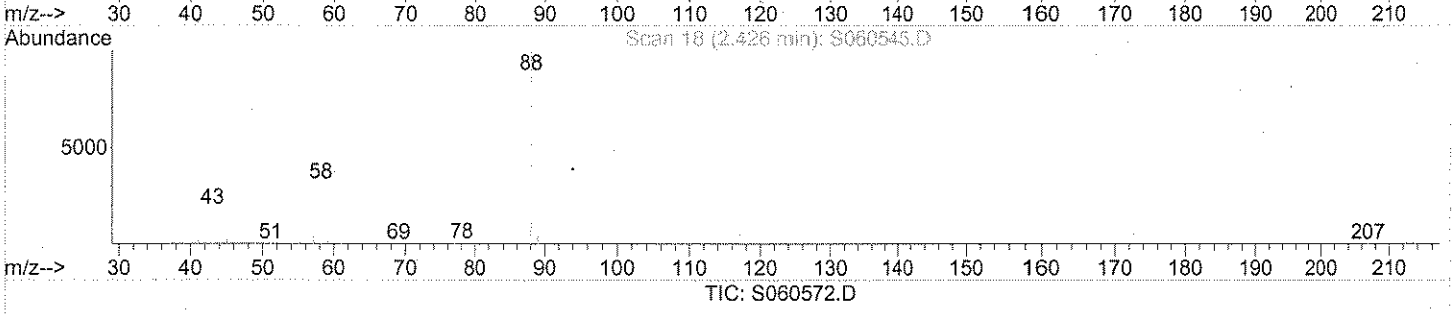
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060572.D Vial: 14
Acq On : 24 Apr 2006 7:42 pm Operator: SC
Sample : L0600578-002;10 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:29 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060572.D

(2) 1,4-Dioxane (N)

2.43min 15.39mg/L m

response 47288

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	37.33#
0.00	0.00	0.00
0.00	0.00	0.00

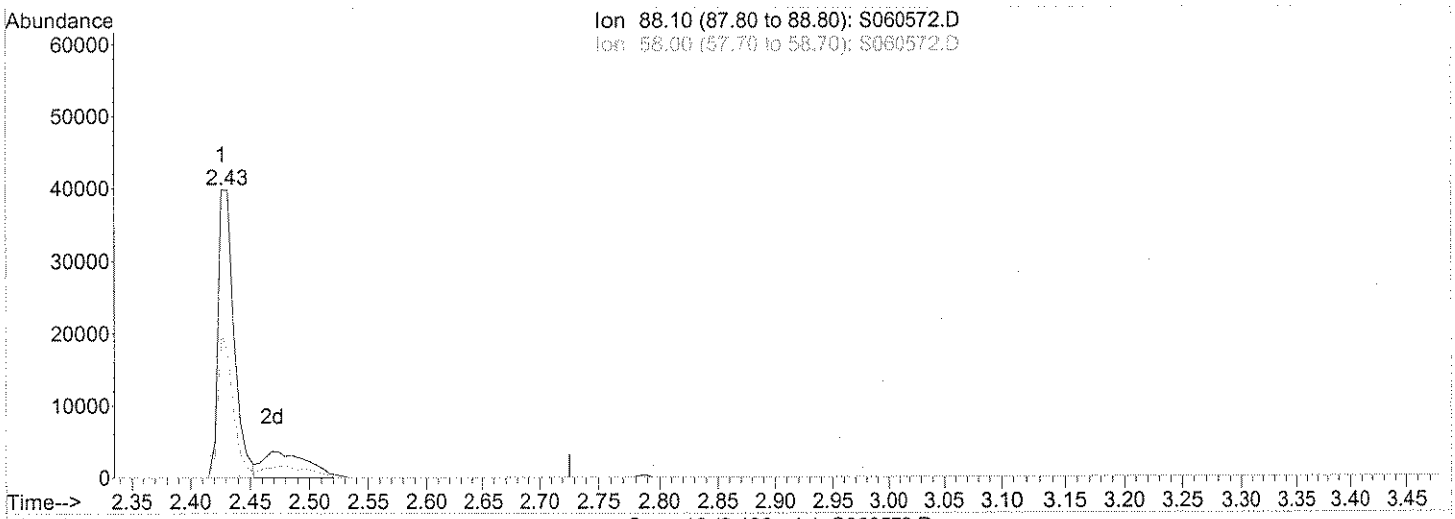
Spike Pair 4/25/06

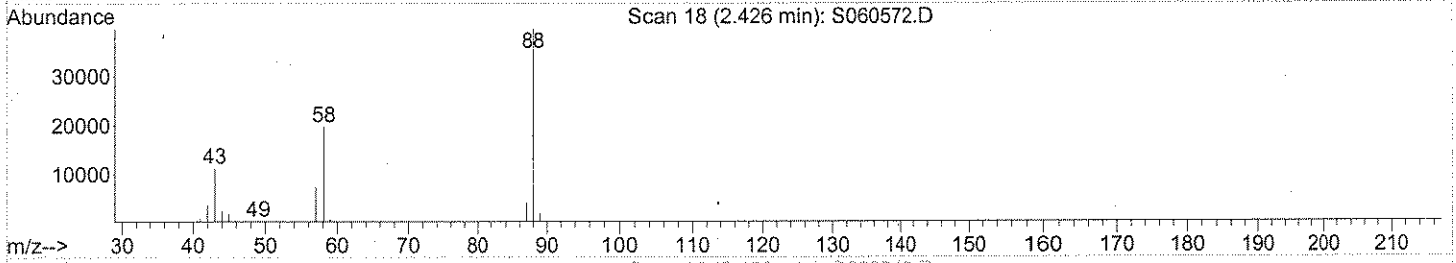
DA 4/27/06

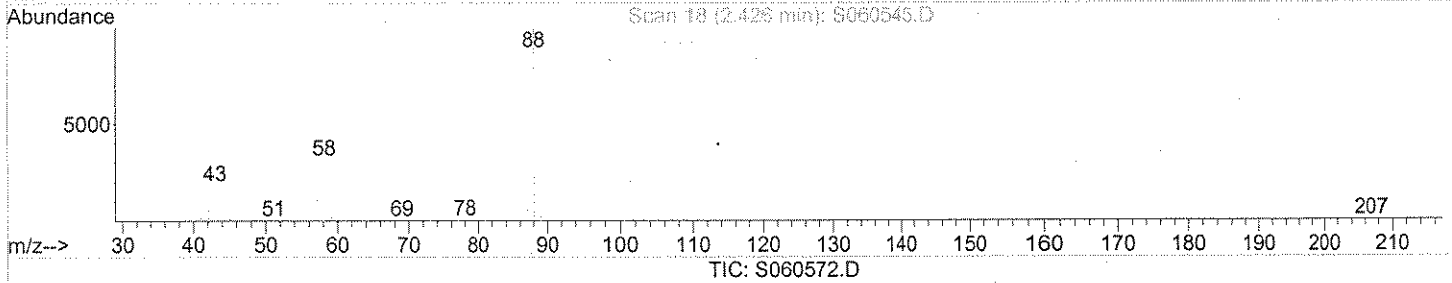
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060572.D Vial: 14
Acq On : 24 Apr 2006 7:42 pm Operator: SC
Sample : L0600578-002;10 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:28 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060572.D

(2) 1,4-Dioxane (N)

2.43min 12.27mg/L

response 37677

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	46.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060572.D Vial: 14
Acq On : 24 Apr 2006 7:42 pm Operator: SC
Sample : L0600578-002;10 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 08:28:49 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

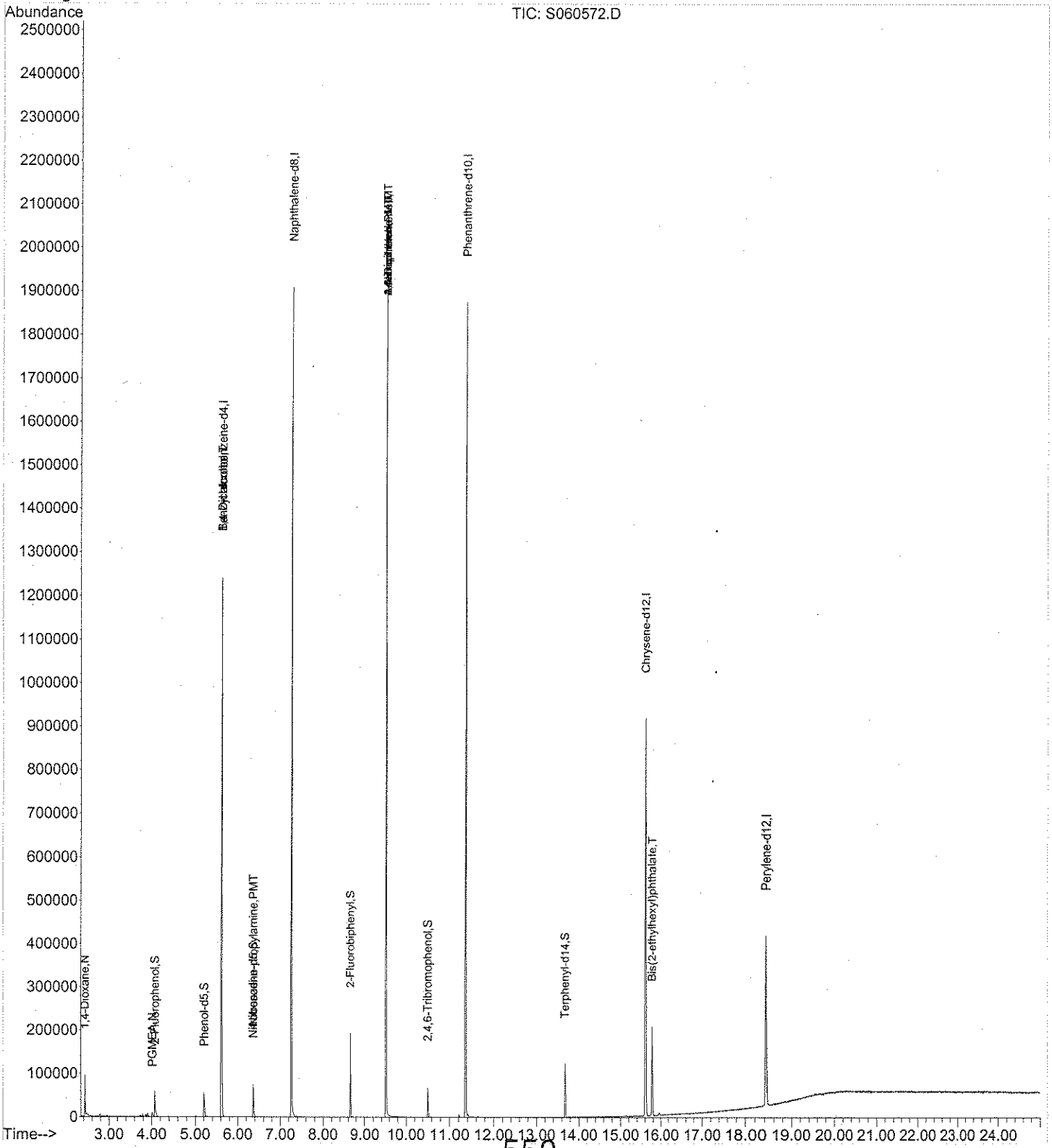
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	226116	40.00	mg/L	0.00
22) Naphthalene-d8	7.26	136	885968	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.51	164	483023	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	789517	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	516675	40.00	mg/L	-0.01
80) Perylene-d12	18.43	264	210356	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	24401	3.60	mg/L	-0.01
Spiked Amount 50.000			Recovery =	7.20%		
7) Phenol-d5	5.20	99	29361	3.38	mg/L	-0.02
Spiked Amount 50.000			Recovery =	6.76%		
23) Nitrobenzene-d5	6.36	82	32715	4.12	mg/L	-0.01
Spiked Amount 50.000			Recovery =	8.24%		
41) 2-Fluorobiphenyl	8.65	172	64224	4.39	mg/L	-0.01
Spiked Amount 50.000			Recovery =	8.78%		
61) 2,4,6-Tribromophenol	10.51	330	9484	3.92	mg/L	-0.01
Spiked Amount 50.000			Recovery =	7.84%		
73) Terphenyl-d14	13.68	244	53733	4.55	mg/L	-0.02
Spiked Amount 50.000			Recovery =	9.10%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	37677	12.27	mg/L #	81
5) PGMEA	4.01	43	1549	0.35	mg/L #	66
14) Benzyl alcohol	5.61	108	1130	0.26	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.36	70	4557	0.75	mg/L #	16
46) 2,6-Dinitrotoluene	9.51	165	62979	18.14	mg/L #	24
51) 4-Nitrophenol	9.51	109	886	0.48	mg/L #	1
52) 2,4-Dinitrotoluene	9.51	165	41745	10.02	mg/L #	24
78) Bis(2-ethylhexyl)phthalate	15.78	149	88841	8.92	mg/L	99

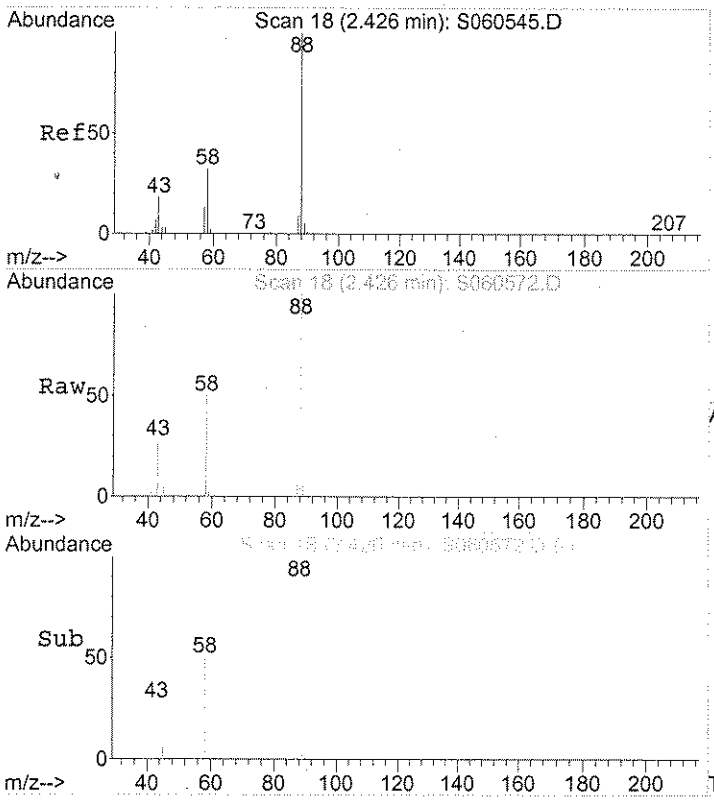
(#) = qualifier out of range (m) = manual integration
S060572.D BA060422.M Tue Apr 25 08:28:52 2006 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060572.D Vial: 14
Acq On : 24 Apr 2006 7:42 pm Operator: SC
Sample : L0600578-002;10 Inst : MSS
Misc : ;06-04-06;06-APR-2006;1050;;1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 8:28 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

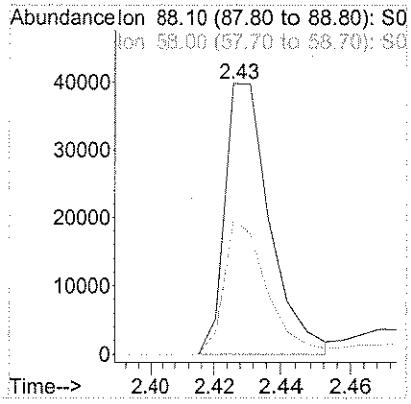


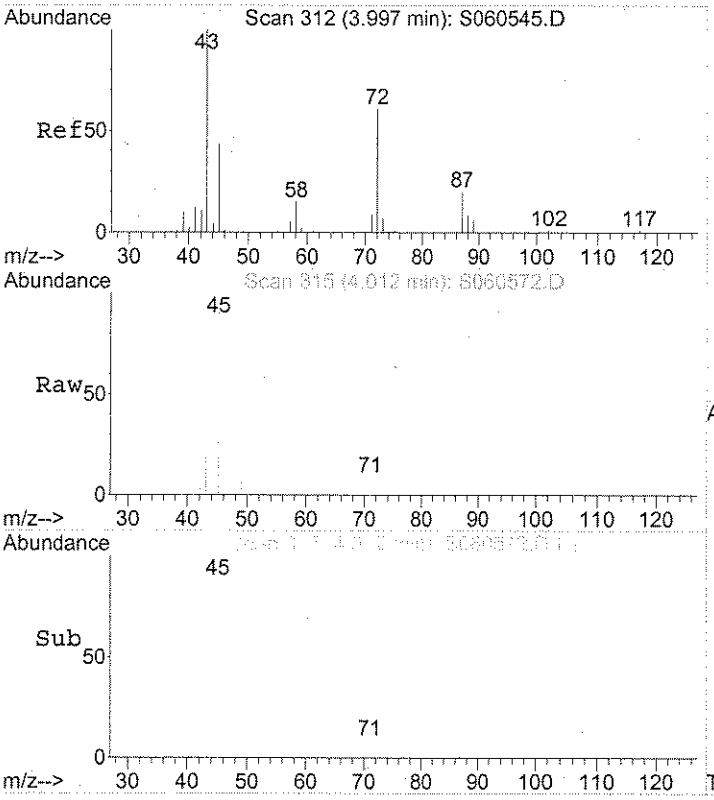


#2
1,4-Dioxane
Concen: 12.27 mg/L
RT: 2.43 min Scan# 18
Delta R.T. -0.00 min
Lab File: S060572.D
Acq: 24 Apr 2006 7:42 pm

Tgt Ion: 88 Resp: 37677

Ion	Ratio	Lower	Upper
88	100		
58	46.9	49.0	73.6#

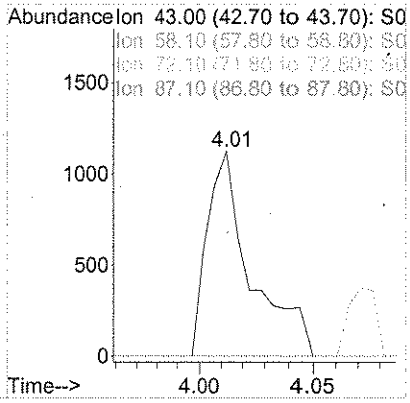




#5
PGMEA
Concen: 0.35 mg/L
RT: 4.01 min Scan# 315
Delta R.T. 0.02 min
Lab File: S060572.D
Acq: 24 Apr 2006 7:42 pm

Tgt Ion: 43 Resp: 1549

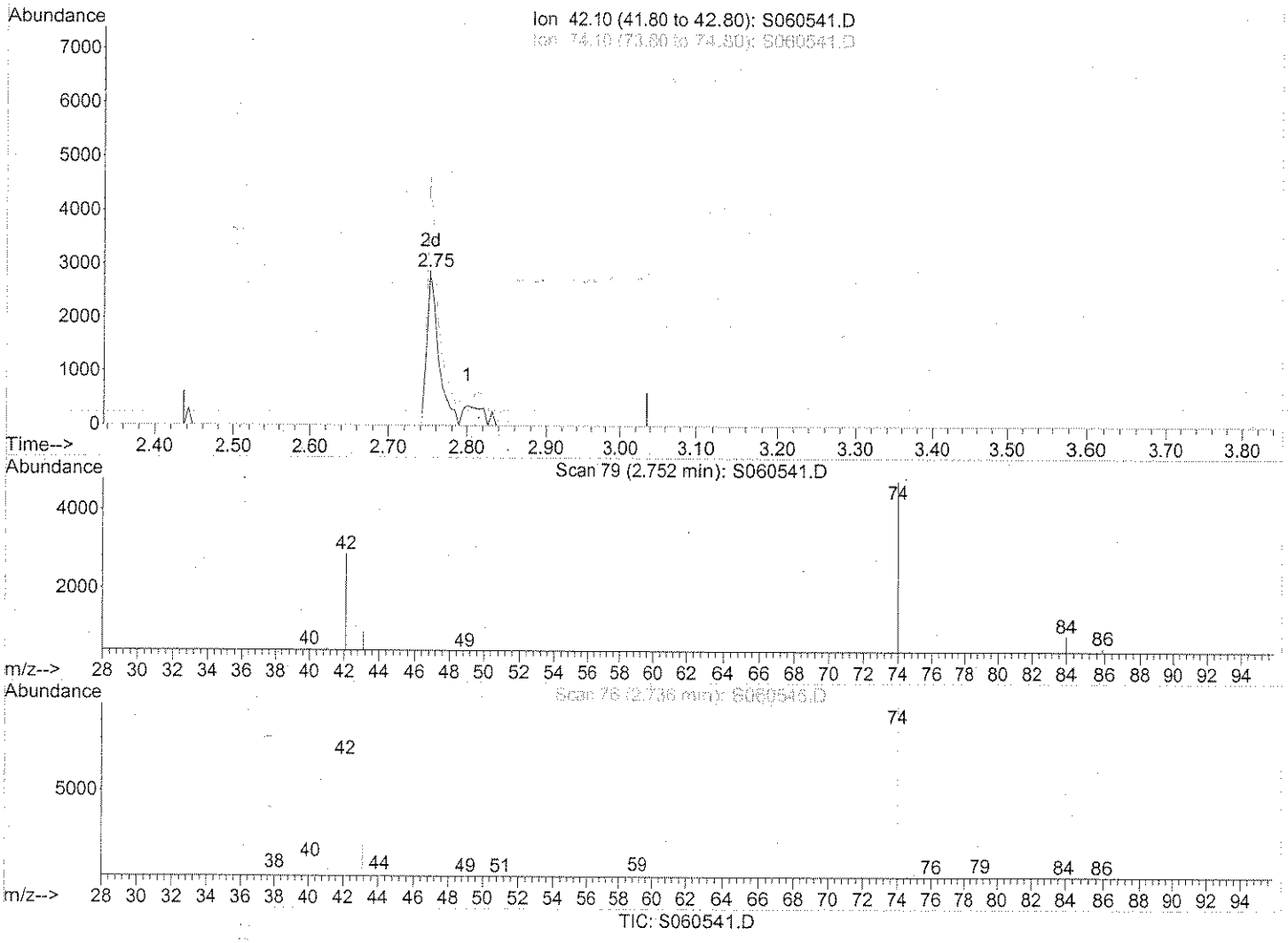
Ion	Ratio	Lower	Upper
43	100		
58	21.1	8.0	12.0#
72	0.0	14.6	21.8#
87	0.0	5.1	7.7#



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.75min 1.82mg/L m

response 3755

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	21.30#
0.00	0.00	0.00
0.00	0.00	0.00

Spl PM 4/23/06

PM 4/26/06

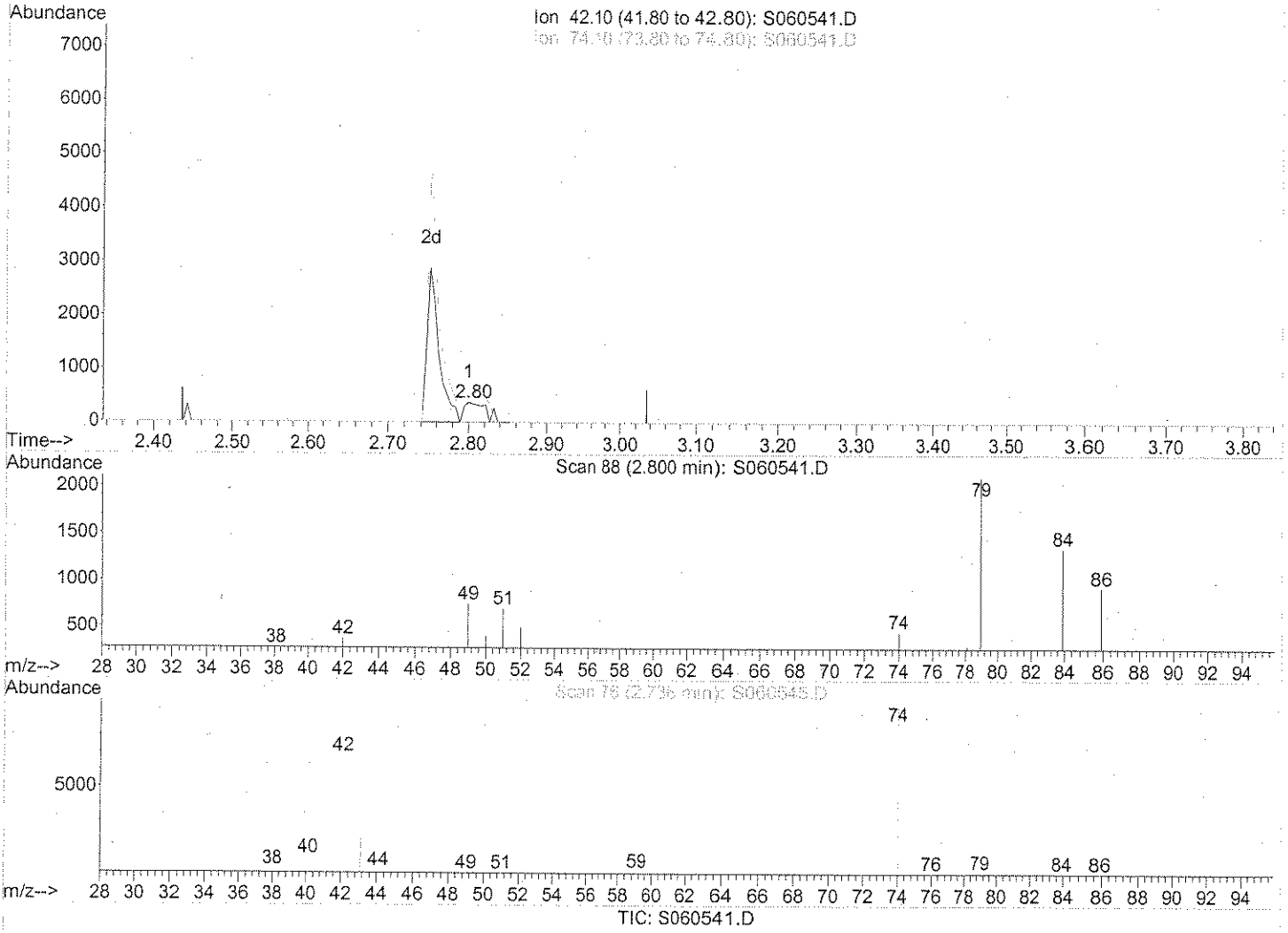
301

S060541.D BA060422.M Sun Apr 23 09:47:11 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:46 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.80min 0.34mg/L

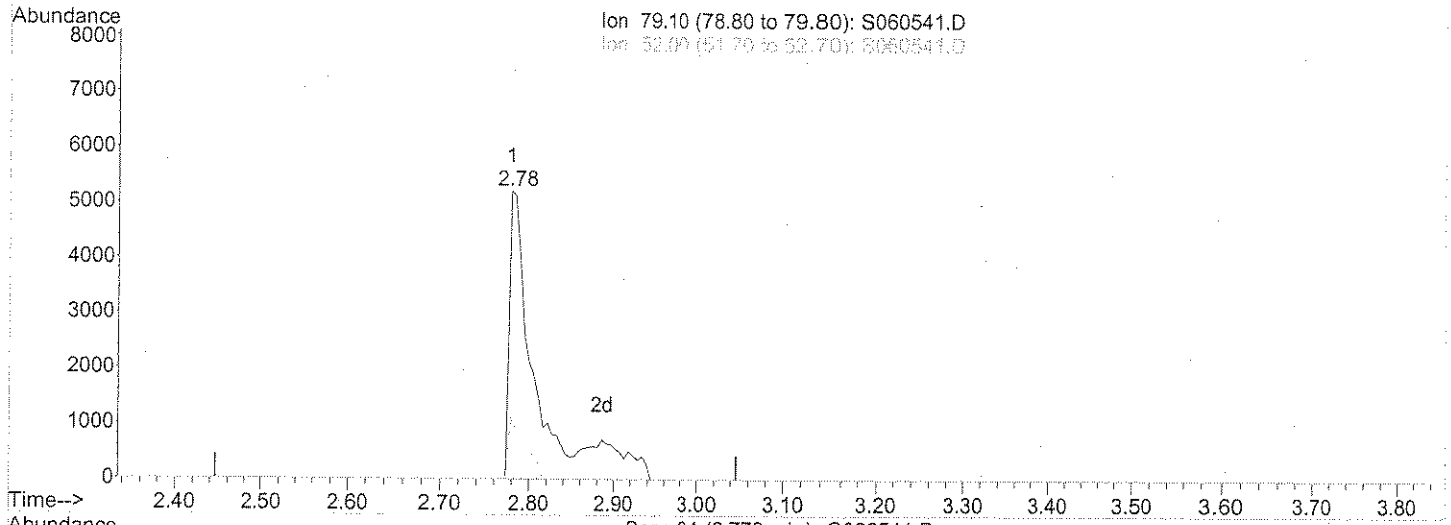
response 710

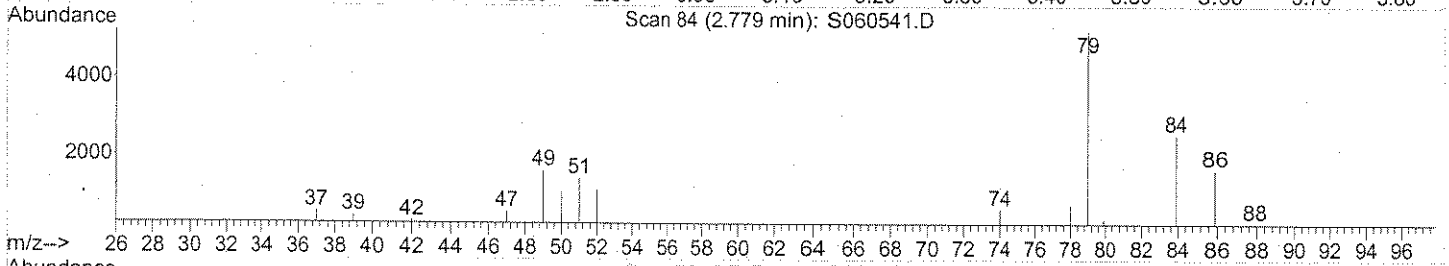
Ion	Exp%	Act%
42.10	100	100
74.10	115.50	112.68
0.00	0.00	0.00
0.00	0.00	0.00

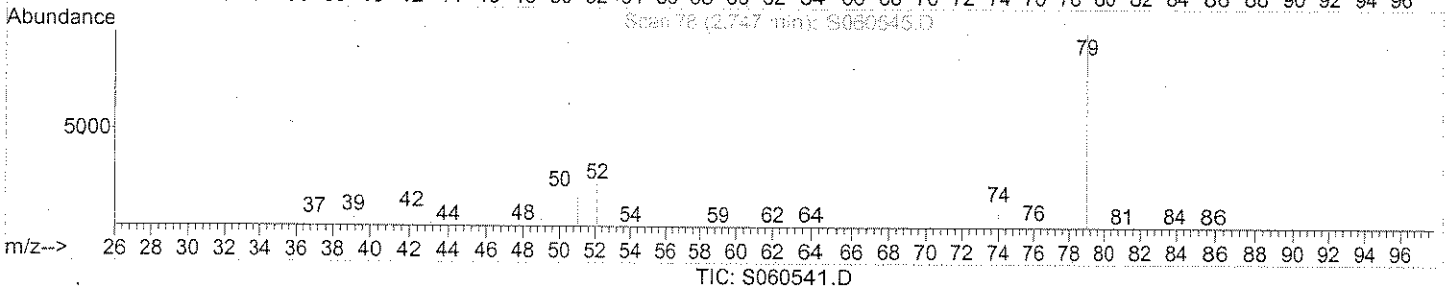
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







TIC: S060541.D

(4) Pyridine (T)

2.78min 2.20mg/L m

response 11504

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	12.96#
0.00	0.00	0.00
0.00	0.00	0.00

Split Pg 4/23/06

DM 4/26/06

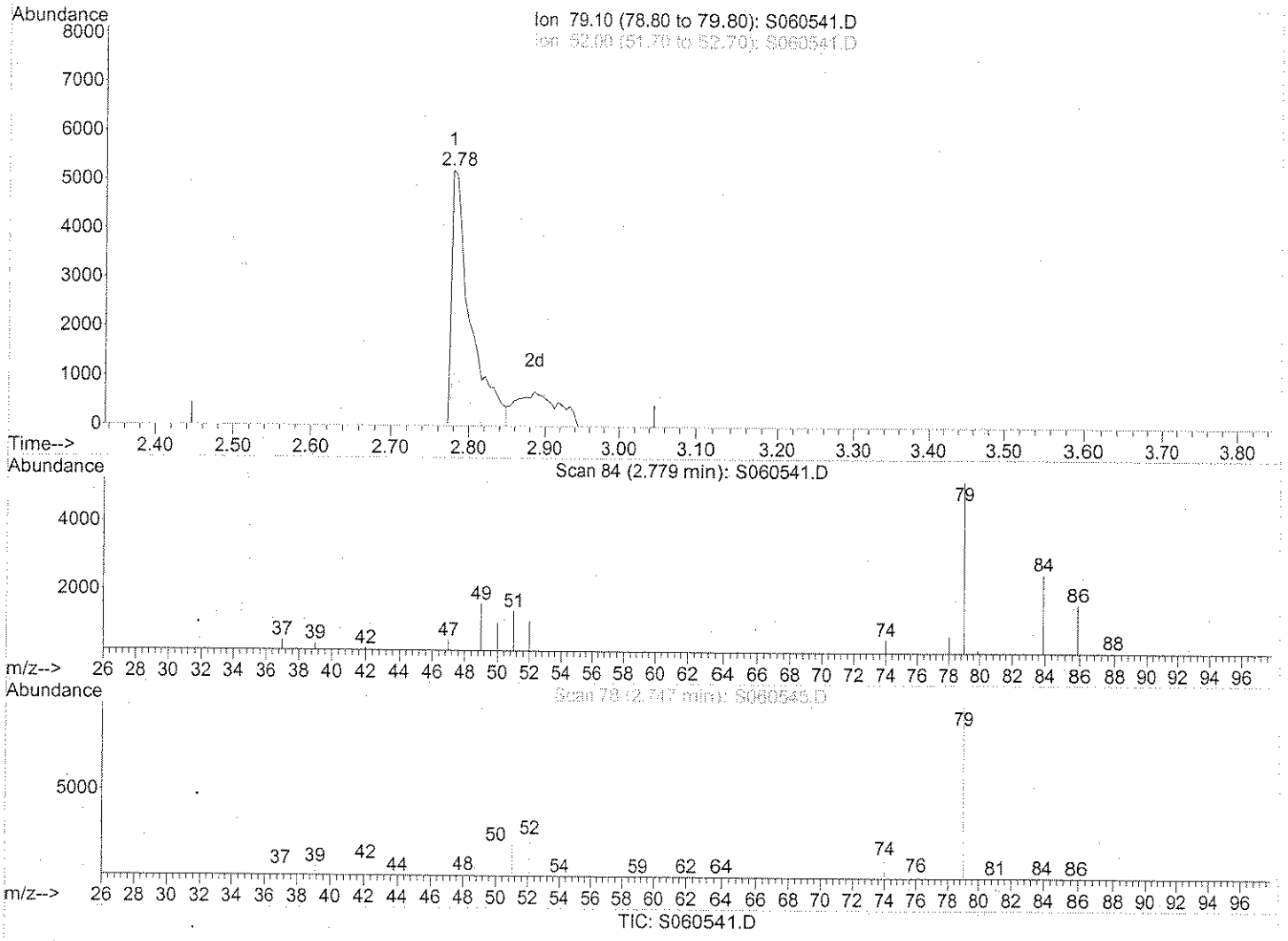
303

S060541.D BA060422.M Sun Apr 23 09:47:23 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(4) Pyridine (T)

2.78min 1.68mg/L

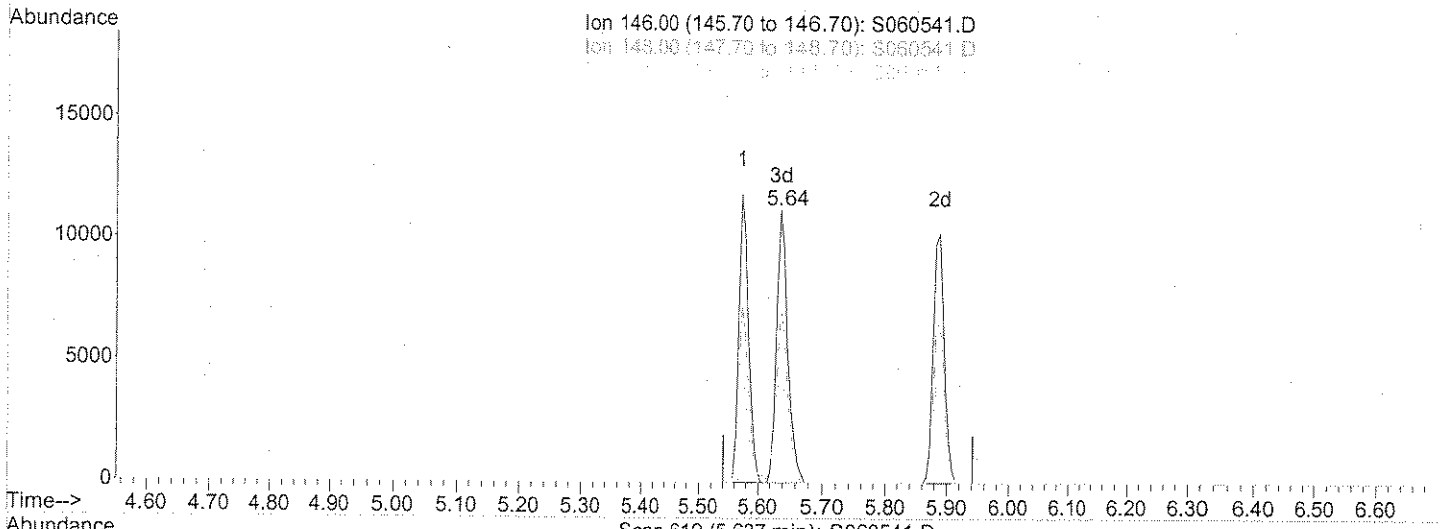
response 8751

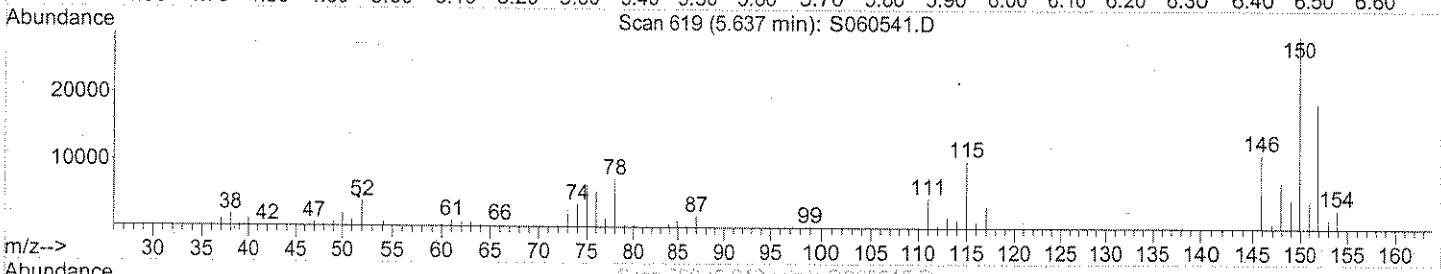
Ion	Exp%	Act%
79.10	100	100
52.00	62.40	17.04#
0.00	0.00	0.00
0.00	0.00	0.00

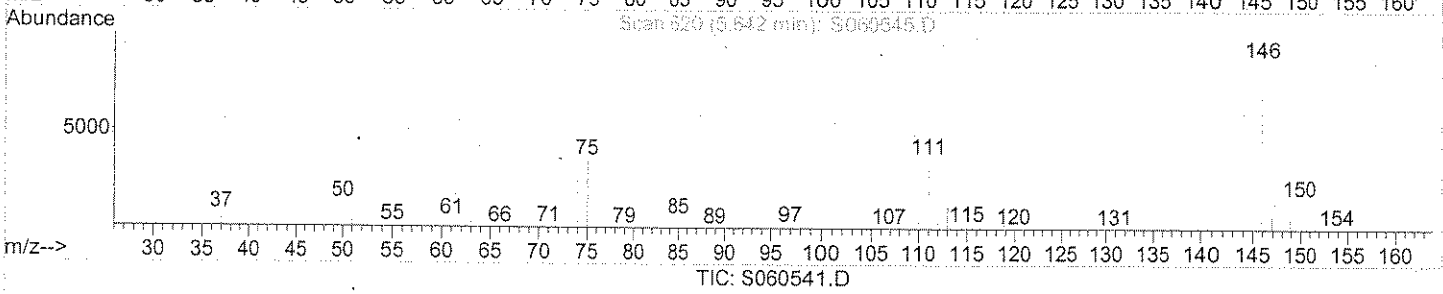
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







TIC: S060541.D

(13) 1,4-Dichlorobenzene (CMT)

5.64min 1.92mg/L m

response 13650

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	63.50
111.00	37.60	37.69
0.00	0.00	0.00

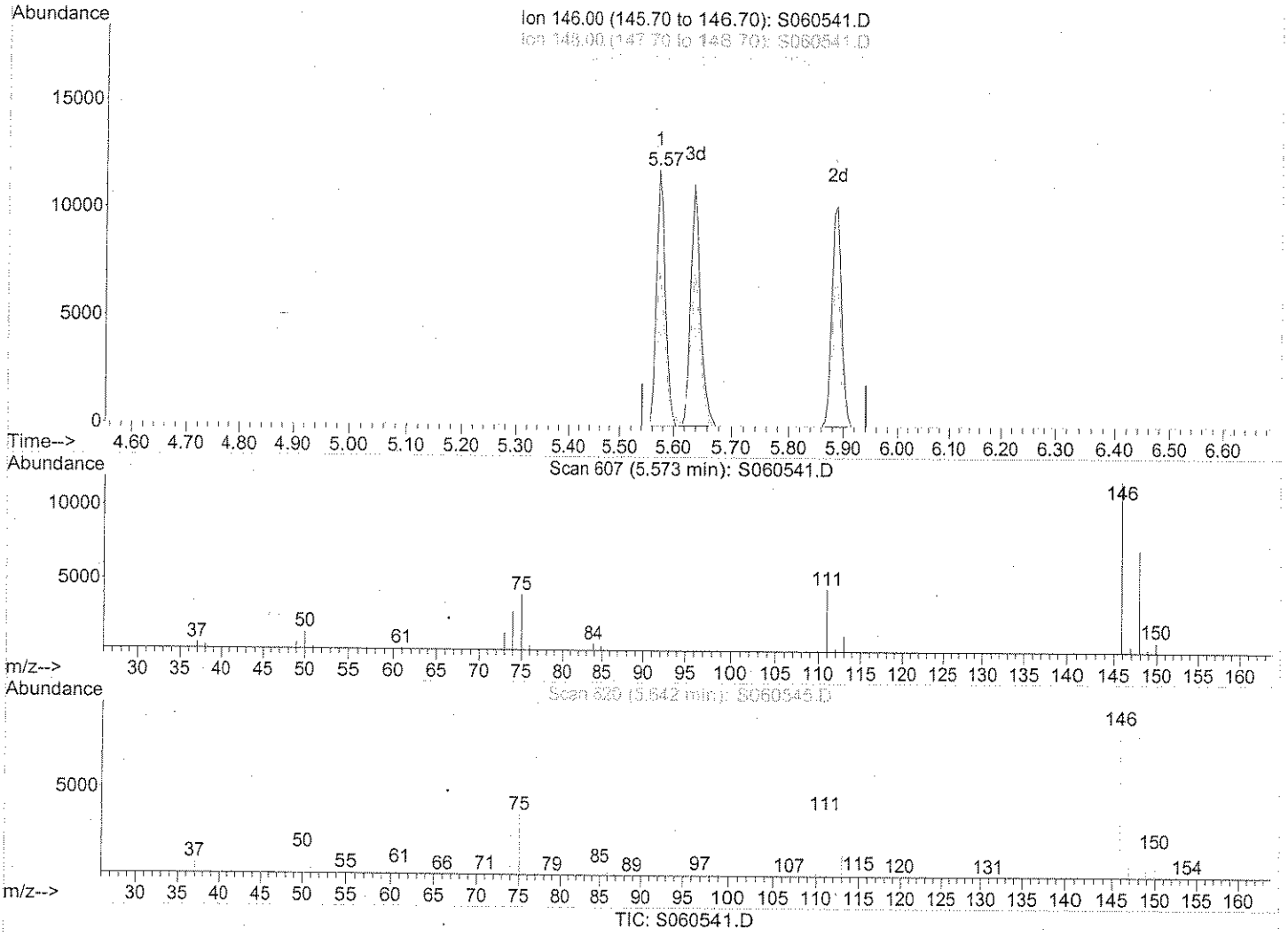
Wrong page 4/21/06

4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(13) 1,4-Dichlorobenzene (CMT)

5.57min 1.93mg/L

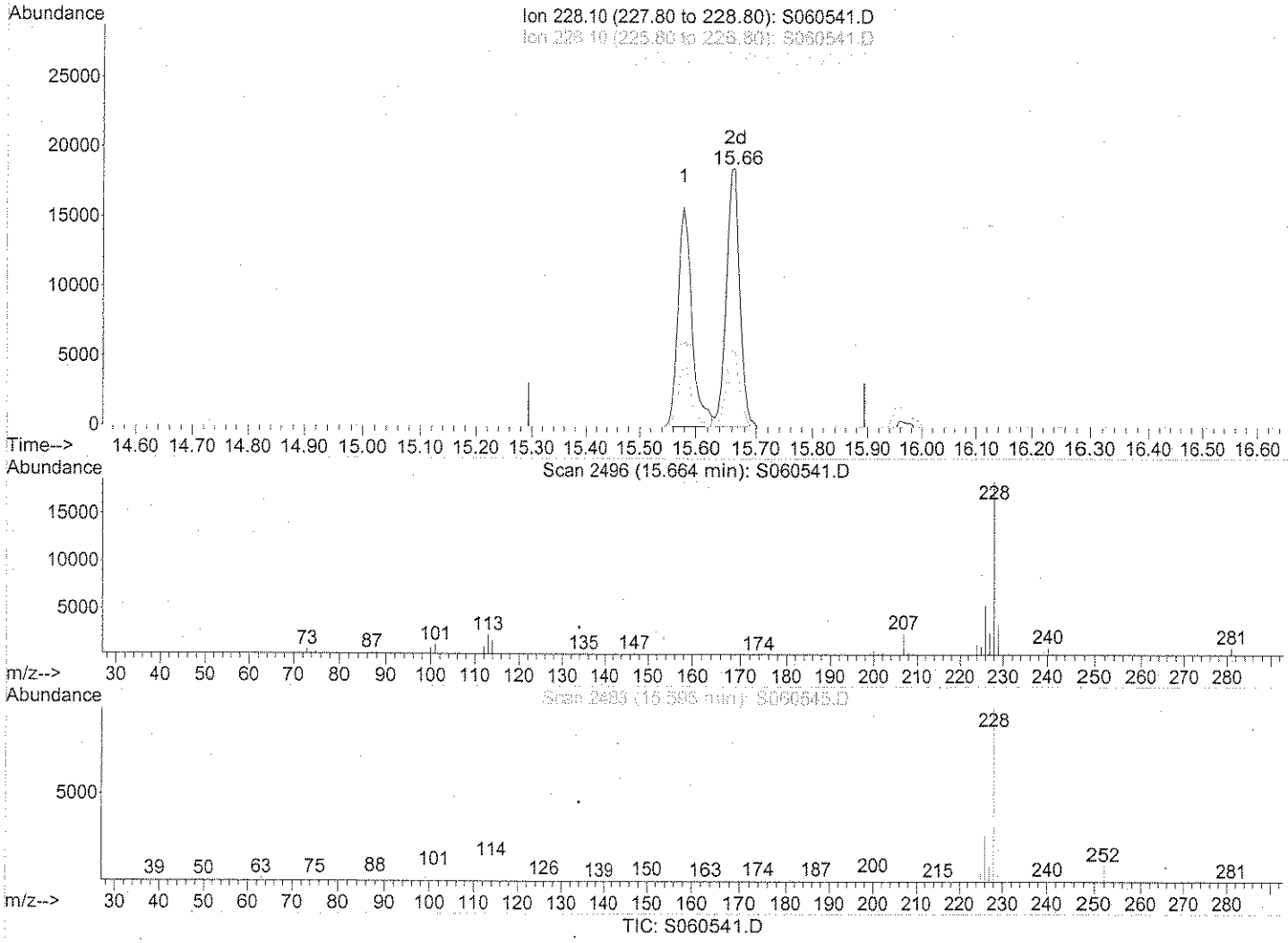
response 13671

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	63.40
111.00	37.60	37.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:48 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.66min 1.78mg/L m

response 28100

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	25.93
229.10	19.40	18.06
0.00	0.00	0.00

Wrong pair

E. 4/23/06

pA 4/26/06

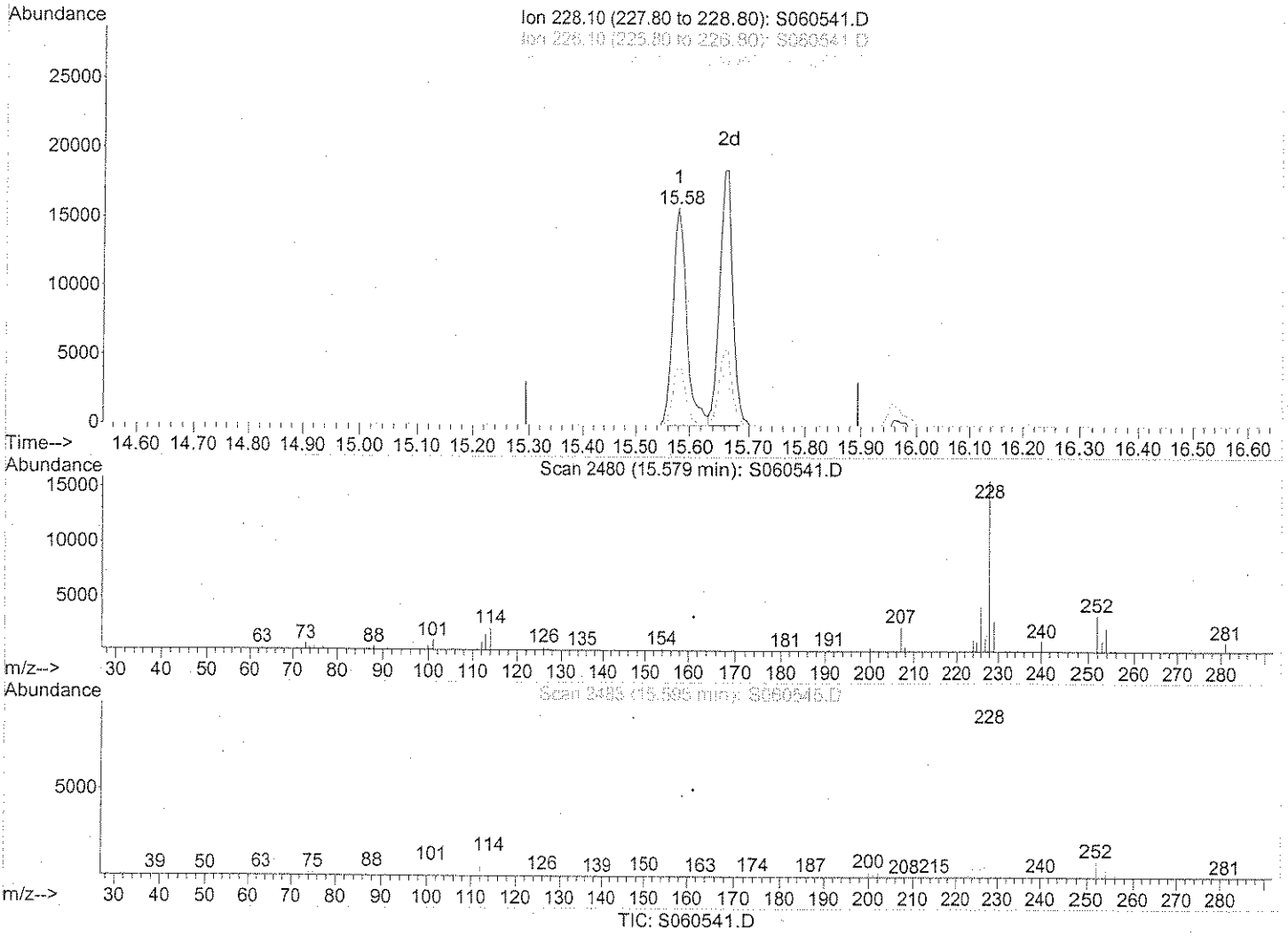
307

S060541.D BA060422.M Sun Apr 23 09:48:38 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.58min 1.76mg/L

response 27769

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	26.24
229.10	19.40	18.27
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:46:37 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	169917	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	650849	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	354838	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	592872	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	539817	40.00	mg/L	-0.01
80) Perylene-d12	18.44	264	311452	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.08	112	8912	1.61	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.22%		
7) Phenol-d5	5.20	99	12072	1.72	mg/L	-0.02
Spiked Amount 50.000			Recovery =	3.44%		
23) Nitrobenzene-d5	6.37	82	11118	1.77	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.54%		
41) 2-Fluorobiphenyl	8.66	172	21616	1.94	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.88%		
61) 2,4,6-Tribromophenol	10.51	330	2795	1.42	mg/L	0.00
Spiked Amount 50.000			Recovery =	2.84%		
73) Terphenyl-d14	13.68	244	21974	1.65	mg/L	-0.01
Spiked Amount 50.000			Recovery =	3.30%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	3928	1.88	mg/L #	54
3) N-Nitrosodimethylamine	2.80	42	710	0.34	mg/L	97
4) Pyridine	2.78	79	8751	1.68	mg/L #	41
5) PGMEA	4.00	43	5944	1.67	mg/L #	39
8) Aniline	5.27	93	11281	1.66	mg/L	98
9) Phenol	5.22	94	12592	1.68	mg/L #	84
10) Bis(2-chloroethyl)ether	5.33	93	11433	1.93	mg/L #	78
11) 2-Chlorophenol	5.40	128	10705	1.78	mg/L	91
12) 1,3-Dichlorobenzene	5.57	146	13671	1.95	mg/L	99
13) 1,4-Dichlorobenzene	5.57	146	13671	1.93	mg/L	99
14) Benzyl alcohol	5.83	108	5185	1.49	mg/L #	75
15) 1,2-Dichlorobenzene	5.89	146	12861	1.90	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.93	99	4924	2.69	mg/L	88
17) 2-Methylphenol	5.98	108	9687	1.75	mg/L	96
18) Bis(2-chloroisopropyl)ethe	6.02	45	2593	1.84	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.19	70	8219	1.69	mg/L #	48
20) Hexachloroethane	6.28	117	5217	1.79	mg/L #	84
21) 3- and 4-Methylphenol Coel	6.17	107	11536	1.64	mg/L #	93
24) Nitrobenzene	6.40	77	12500	1.78	mg/L #	71
25) Isophorone	6.68	82	20547	1.71	mg/L	96
26) 2-Nitrophenol	6.81	139	4679	1.53	mg/L #	96
27) 2,4-Dimethylphenol	6.85	122	8791	1.75	mg/L	93
28) Bis(2-chloroethoxy)methane	6.97	93	11088	1.75	mg/L #	83
29) 2,4-Dichlorophenol	7.10	162	8172	1.64	mg/L	99
30) 1,2,4-Trichlorobenzene	7.21	180	10870	1.97	mg/L	96
31) Benzoic acid	6.85	122	8791	2.42	mg/L #	20
32) Naphthalene	7.29	128	32037	1.94	mg/L	99
33) 4-Chloroaniline	7.40	127	9401	1.99	mg/L	96
34) Hexachlorobutadiene	7.52	225	6517	1.94	mg/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:46:37 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

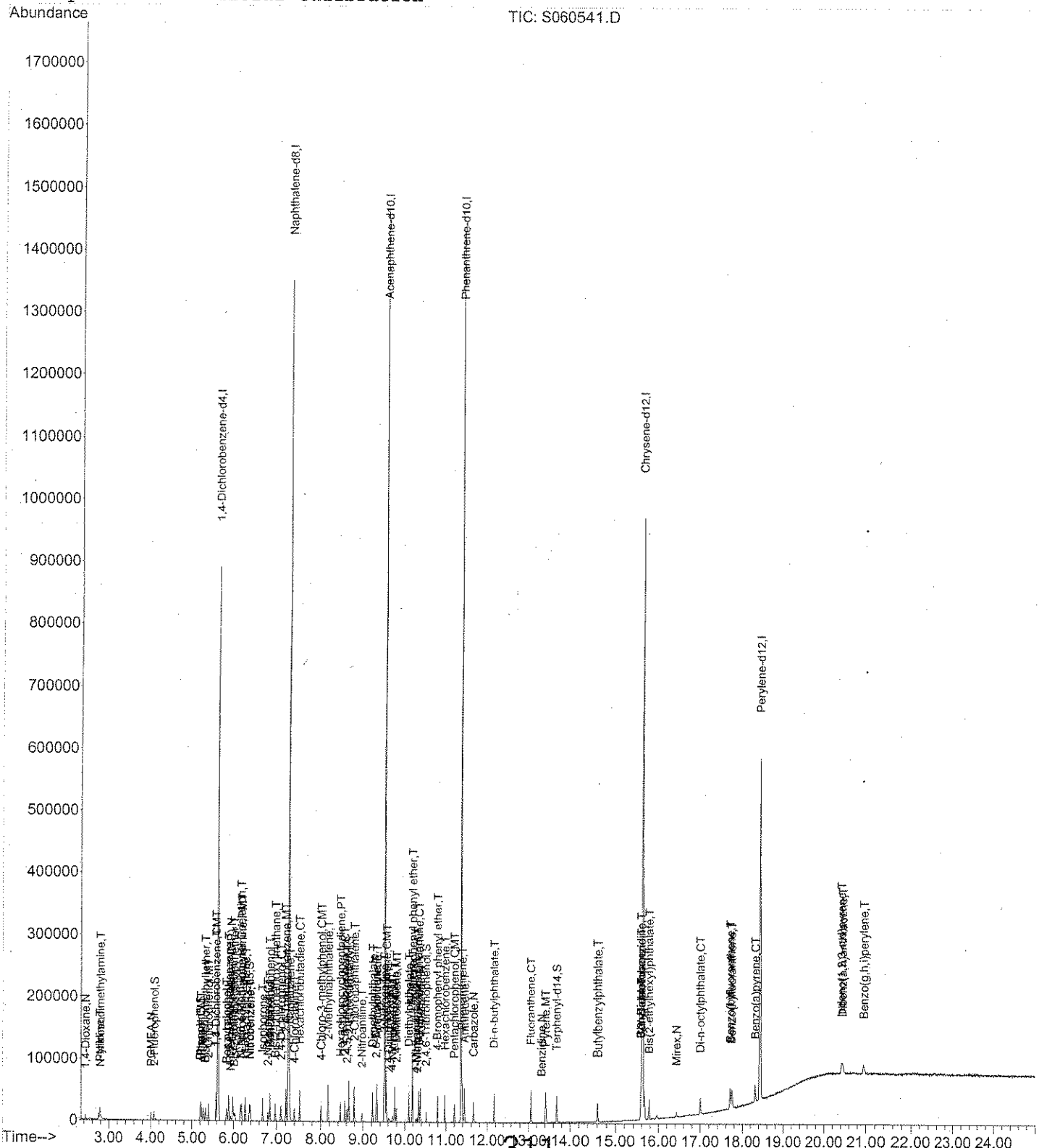
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.01	107	7587	1.60	mg/L	#	91
36)	2-Methylnaphthalene	8.17	142	20599	1.84	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	5622	1.65	mg/L		96
39)	2,4,6-Trichlorophenol	8.56	196	5669	1.65	mg/L		99
40)	2,4,5-Trichlorophenol	8.62	196	5990	1.58	mg/L		96
42)	2-Chloronaphthalene	8.79	162	18740	1.88	mg/L		98
43)	2-Nitroaniline	8.97	65	3886	1.29	mg/L		97
44)	Dimethylphthalate	9.22	163	19824	1.79	mg/L		93
45)	Acenaphthylene	9.32	152	28562	1.86	mg/L		99
46)	2,6-Dinitrotoluene	9.31	165	4035	1.44	mg/L	#	63
47)	3-Nitroaniline	9.49	138	3222	1.54	mg/L	#	40
48)	Acenaphthene	9.55	154	17558	1.94	mg/L		99
49)	2,4-Dinitrophenol	9.62	184	1552	0.45	mg/L	#	88
50)	Dibenzofuran	9.76	168	26624	1.92	mg/L		90
51)	4-Nitrophenol	9.70	109	2296	0.79	mg/L	#	49
52)	2,4-Dinitrotoluene	9.80	165	5142	1.55	mg/L		88
53)	Fluorene	10.18	166	20200	1.85	mg/L		95
54)	Diethylphthalate	10.10	149	19321	1.76	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.18	204	10789	1.91	mg/L		99
56)	4-Nitroaniline	10.27	138	1996	1.03	mg/L	#	72
58)	2-Methyl-4,6-dinitrophenol	10.30	198	1649	0.75	mg/L	#	77
59)	N-Nitrosodiphenylamine	10.34	169	14193	1.85	mg/L		93
60)	Azobenzene	10.38	77	24035	1.84	mg/L	#	91
62)	4-Bromophenyl phenyl ether	10.79	248	6457	1.84	mg/L		94
63)	Hexachlorobenzene	10.97	284	6761	1.80	mg/L		97
64)	Pentachlorophenol	11.20	266	5041	0.95	mg/L		98
65)	Phenanthrene	11.38	178	29420	1.96	mg/L		99
66)	Anthracene	11.44	178	27236	1.83	mg/L		99
67)	Carbazole	11.66	167	21986	1.93	mg/L		98
68)	Di-n-butylphthalate	12.16	149	29928	1.60	mg/L	#	98
69)	Fluoranthene	13.06	202	30941	1.77	mg/L	#	92
71)	Benzidine	13.33	184	89	0.35	mg/L	#	66
72)	Pyrene	13.41	202	31355	1.64	mg/L		100
74)	Butylbenzylphthalate	14.61	149	11292	1.34	mg/L		93
75)	Benz(a)anthracene	15.58	228	27769	1.76	mg/L		98
76)	3,3'-Dichlorobenzidine	15.58	252	6097	1.81	mg/L		97
77)	Chrysene	15.58	228	27769	1.76	mg/L		96
78)	Bis(2-ethylhexyl)phthalate	15.78	149	15857	1.43	mg/L		97
79)	Mirex	16.43	272	2458	1.59	mg/L		94
81)	Di-n-octylphthalate	17.00	149	22032	1.01	mg/L	#	97
82)	Benzo(b)fluoranthene	17.70	252	23522	1.59	mg/L	#	90
83)	Benzo(k)fluoranthene	17.75	252	23960	1.74	mg/L	#	93
84)	Benzo(a)pyrene	18.32	252	18505	1.60	mg/L	#	91
85)	Indeno(1,2,3-c,d)pyrene	20.42	276	17009	1.81	mg/L	#	69
86)	Dibenz(a,h)anthracene	20.46	278	12373	1.74	mg/L	#	88
87)	Benzo(g,h,i)perylene	20.96	276	14529	1.98	mg/L	#	74

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:46 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:42:00 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Ex 4/23/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	176045	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	686537	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	392296	40.00	mg/L	0.00
57) Phenanthrene-d10	11.36	188	676426	40.00	mg/L	0.00
70) Chrysene-d12	15.63	240	637028	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	347882	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.08	112	19079m	3.32	mg/L	0.00
Spiked Amount 50.000			Recovery =	6.64%		
7) Phenol-d5	5.20	99	24398	3.36	mg/L	-0.02
Spiked Amount 50.000			Recovery =	6.72%		
23) Nitrobenzene-d5	6.37	82	23084	3.49	mg/L	0.00
Spiked Amount 50.000			Recovery =	6.98%		
41) 2-Fluorobiphenyl	8.66	172	46218	3.76	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.52%		
61) 2,4,6-Tribromophenol	10.51	330	6941	3.10	mg/L	0.00
Spiked Amount 50.000			Recovery =	6.20%		
73) Terphenyl-d14	13.68	244	51314	3.26	mg/L	-0.01
Spiked Amount 50.000			Recovery =	6.52%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	10227m	4.72	mg/L	
3) N-Nitrosodimethylamine	2.75	42	8303m	3.89	mg/L	
4) Pyridine	2.77	79	24109m	4.46	mg/L	
5) PGMEA	4.00	43	12545	3.41	mg/L #	38
8) Aniline	5.27	93	25328	3.59	mg/L	99
9) Phenol	5.22	94	27262	3.50	mg/L #	84
10) Bis(2-chloroethyl)ether	5.32	93	22422	3.66	mg/L #	80
11) 2-Chlorophenol	5.40	128	22391	3.59	mg/L	93
12) 1,3-Dichlorobenzene	5.57	146	26621	3.67	mg/L	98
13) 1,4-Dichlorobenzene	5.64	146	27819	3.78	mg/L	94
14) Benzyl alcohol	5.83	108	11356	3.16	mg/L #	73
15) 1,2-Dichlorobenzene	5.89	146	26203	3.73	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.92	99	11218	5.91	mg/L	97
17) 2-Methylphenol	5.98	108	20316	3.54	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.02	45	5165	3.53	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.19	70	17415	3.45	mg/L #	50
20) Hexachloroethane	6.28	117	10936	3.62	mg/L	88
21) 3- and 4-Methylphenol Coel	6.17	107	24201	3.32	mg/L #	92
24) Nitrobenzene	6.40	77	26060	3.51	mg/L #	72
25) Isophorone	6.68	82	43253	3.42	mg/L	98
26) 2-Nitrophenol	6.81	139	10579	3.27	mg/L #	94
27) 2,4-Dimethylphenol	6.85	122	18830	3.55	mg/L	95
28) Bis(2-chloroethoxy)methane	6.97	93	24160	3.61	mg/L #	83
29) 2,4-Dichlorophenol	7.10	162	17163	3.27	mg/L	98
30) 1,2,4-Trichlorobenzene	7.21	180	21758	3.74	mg/L	99
31) Benzoic acid	6.95	122	4182	1.09	mg/L	98
32) Naphthalene	7.29	128	66097	3.79	mg/L	99
33) 4-Chloroaniline	7.39	127	21921	4.40	mg/L	98
34) Hexachlorobutadiene	7.52	225	13349	3.77	mg/L	98

(#) = qualifier out of range (m) = manual integration
S060542.D BA060422.M Sun Apr 23 09:44:34 2006 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:42:00 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

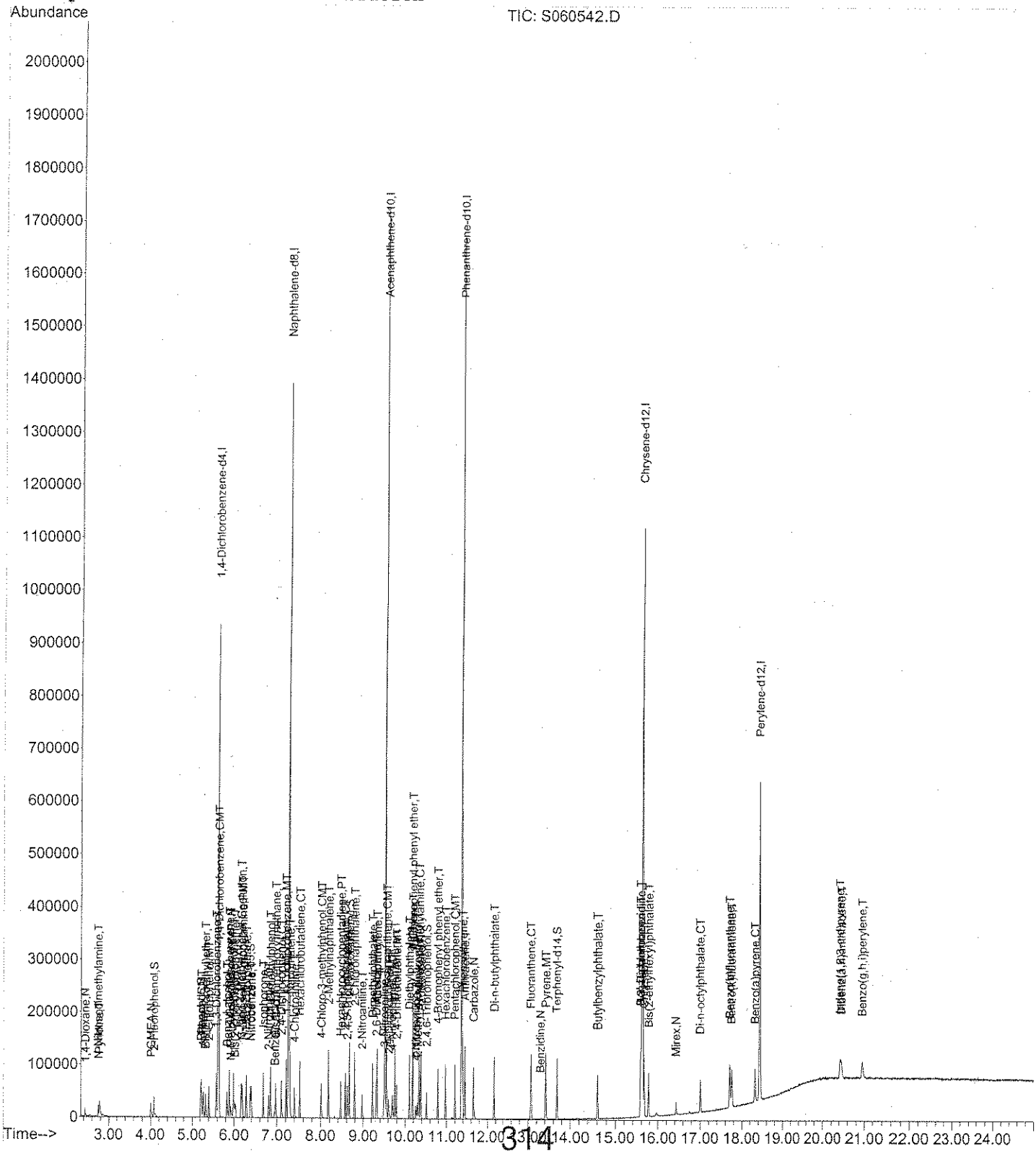
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.01	107	16435	3.28	mg/L		96
36)	2-Methylnaphthalene	8.17	142	43825	3.71	mg/L		98
38)	Hexachlorocyclopentadiene	8.46	237	13272	3.53	mg/L		96
39)	2,4,6-Trichlorophenol	8.56	196	12482	3.29	mg/L		96
40)	2,4,5-Trichlorophenol	8.61	196	14247	3.40	mg/L		97
42)	2-Chloronaphthalene	8.79	162	40209	3.66	mg/L		99
43)	2-Nitroaniline	8.97	65	9731	2.92	mg/L		95
44)	Dimethylphthalate	9.22	163	44204	3.62	mg/L		95
45)	Acenaphthylene	9.33	152	62801	3.69	mg/L		99
46)	2,6-Dinitrotoluene	9.31	165	9849	3.19	mg/L	#	66
47)	3-Nitroaniline	9.49	138	8532	3.70	mg/L	#	79
48)	Acenaphthene	9.56	154	36901	3.70	mg/L		98
49)	2,4-Dinitrophenol	9.61	184	6790	1.79	mg/L	#	80
50)	Dibenzofuran	9.76	168	57247	3.72	mg/L		91
51)	4-Nitrophenol	9.70	109	8062	2.52	mg/L	#	53
52)	2,4-Dinitrotoluene	9.80	165	12270	3.34	mg/L	#	85
53)	Fluorene	10.19	166	45282	3.75	mg/L		97
54)	Diethylphthalate	10.10	149	44021	3.63	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.18	204	22558	3.61	mg/L		99
56)	4-Nitroaniline	10.26	138	7220	3.38	mg/L	#	81
58)	2-Methyl-4,6-dinitrophenol	10.30	198	5481	2.18	mg/L	#	87
59)	N-Nitrosodiphenylamine	10.34	169	32192	3.68	mg/L		97
60)	Azobenzene	10.38	77	54439	3.66	mg/L	#	91
62)	4-Bromophenyl phenyl ether	10.79	248	14010	3.50	mg/L		99
63)	Hexachlorobenzene	10.97	284	15897	3.72	mg/L		99
64)	Pentachlorophenol	11.20	266	14202	2.36	mg/L		99
65)	Phenanthrene	11.39	178	65427	3.83	mg/L		100
66)	Anthracene	11.44	178	62504	3.67	mg/L		99
67)	Carbazole	11.66	167	52642	4.04	mg/L		99
68)	Di-n-butylphthalate	12.17	149	71554	3.36	mg/L	#	98
69)	Fluoranthene	13.06	202	72477	3.63	mg/L	#	93
71)	Benzidine	13.29	184	2533	8.54	mg/L	#	66
72)	Pyrene	13.42	202	72783	3.22	mg/L		98
74)	Butylbenzylphthalate	14.61	149	27445	2.75	mg/L		91
75)	Benz(a)anthracene	15.58	228	65580	3.51	mg/L		99
76)	3,3'-Dichlorobenzidine	15.58	252	15508	3.91	mg/L		98
77)	Chrysene	15.66	228	64310m	3.44	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.78	149	37235	2.85	mg/L		100
79)	Mirex	16.43	272	5839	3.20	mg/L		98
81)	Di-n-octylphthalate	17.00	149	49376	2.02	mg/L		99
82)	Benzo(b)fluoranthene	17.70	252	54417	3.30	mg/L	#	93
83)	Benzo(k)fluoranthene	17.75	252	51437	3.34	mg/L	#	94
84)	Benzo(a)pyrene	18.32	252	42054	3.27	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.42	276	34662	3.30	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.46	278	26000	3.27	mg/L	#	86
87)	Benzo(g,h,i)perylene	20.96	276	29091	3.54	mg/L	#	74

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:44 2006 Quant Results File: BA060422.RES

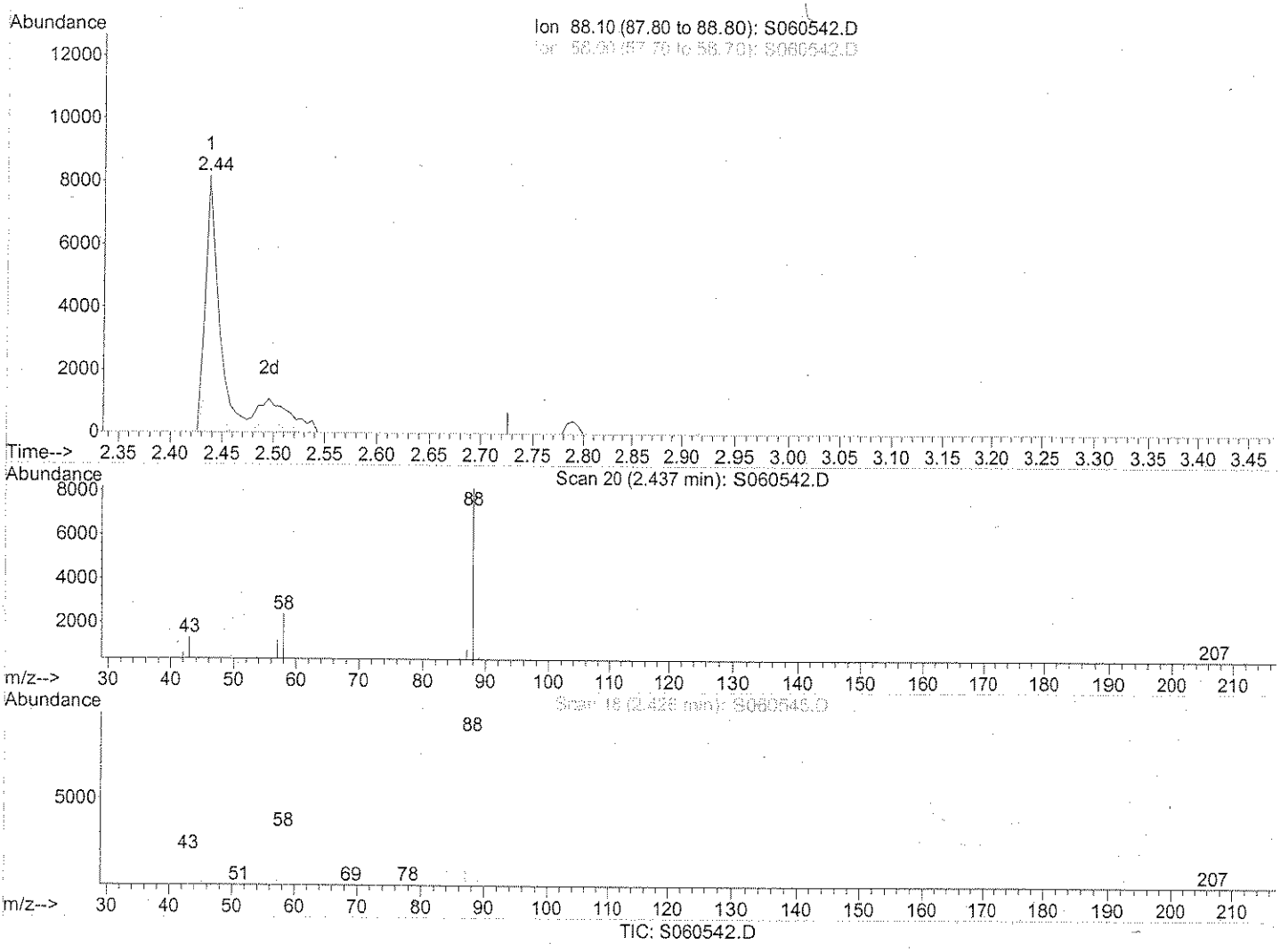
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:42 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060542.D

(2) 1,4-Dioxane (N)

2.44min 4.72mg/L m

response 10227

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	21.03#
0.00	0.00	0.00
0.00	0.00	0.00

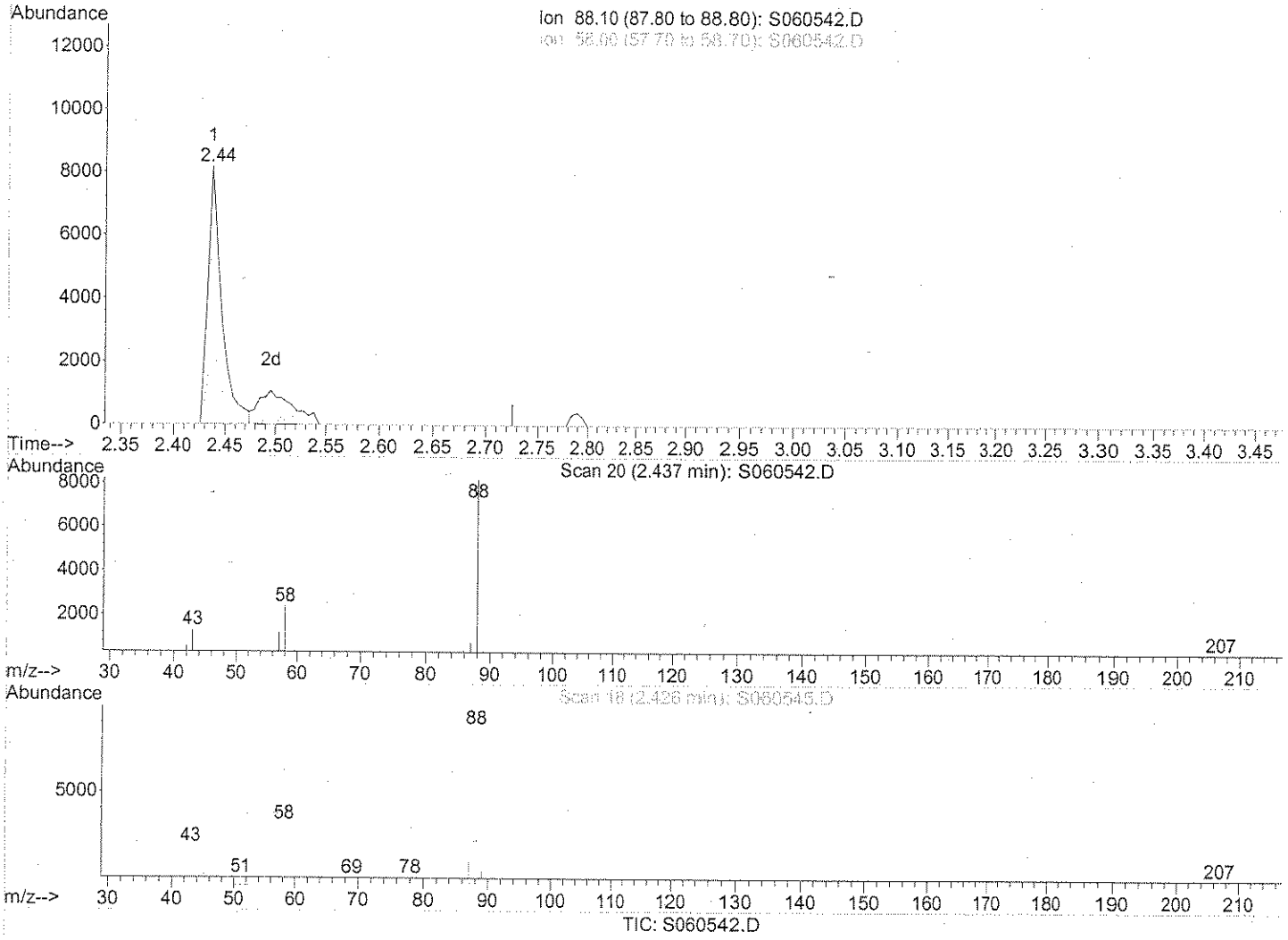
Spike Pres E 4/23/06

DA 4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:42 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060542.D

(2) 1,4-Dioxane (N)

2.44min 3.58mg/L

response 7759

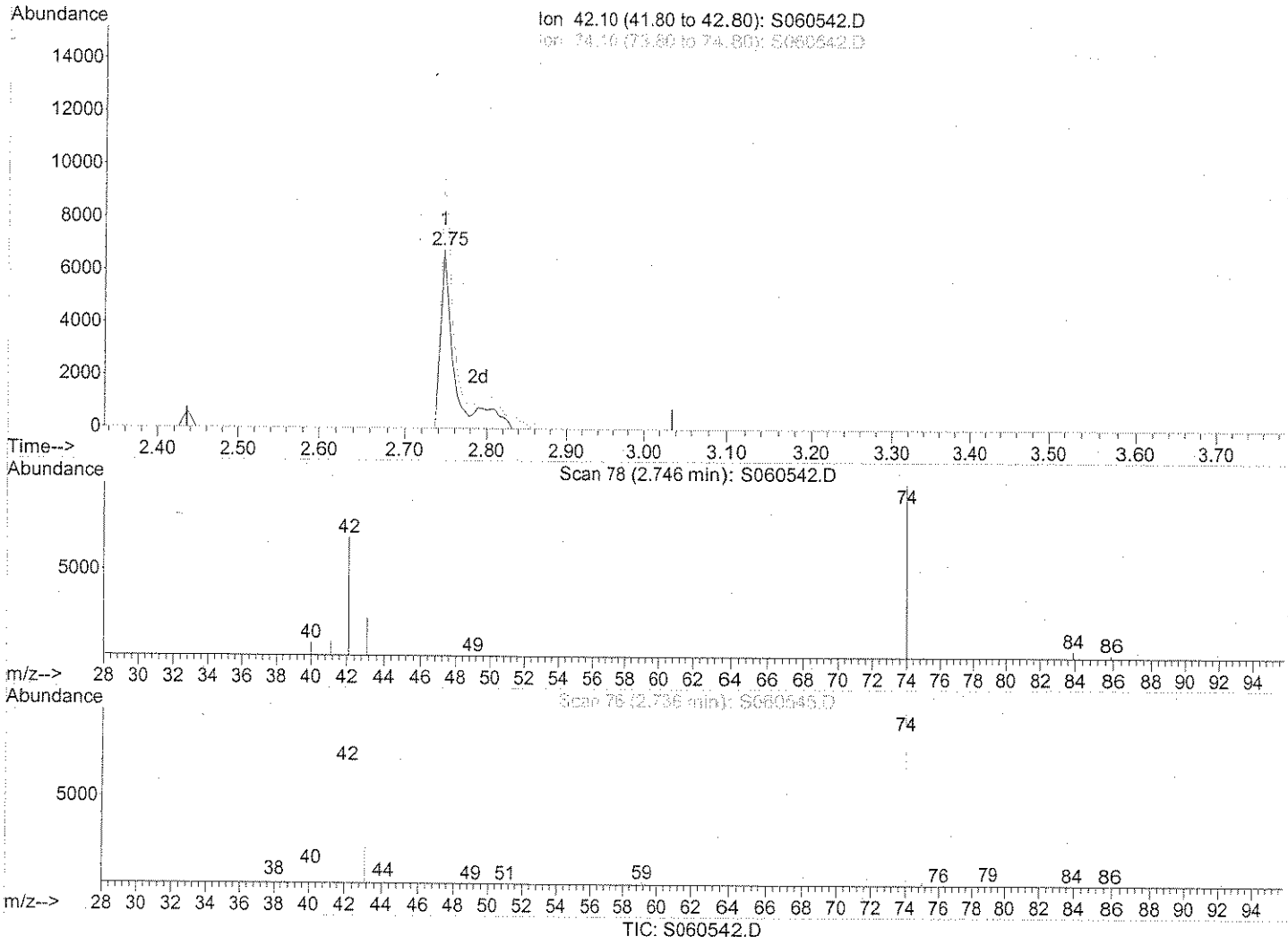
Ion	Exp%	Act%
88.10	100	100
58.00	61.30	27.72#
0.00	0.00	0.00
0.00	0.00	0.00

316

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:42 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.75min 3.89mg/L m

response 8303

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	117.75
0.00	0.00	0.00
0.00	0.00	0.00

Split peak
EA 4/27/06

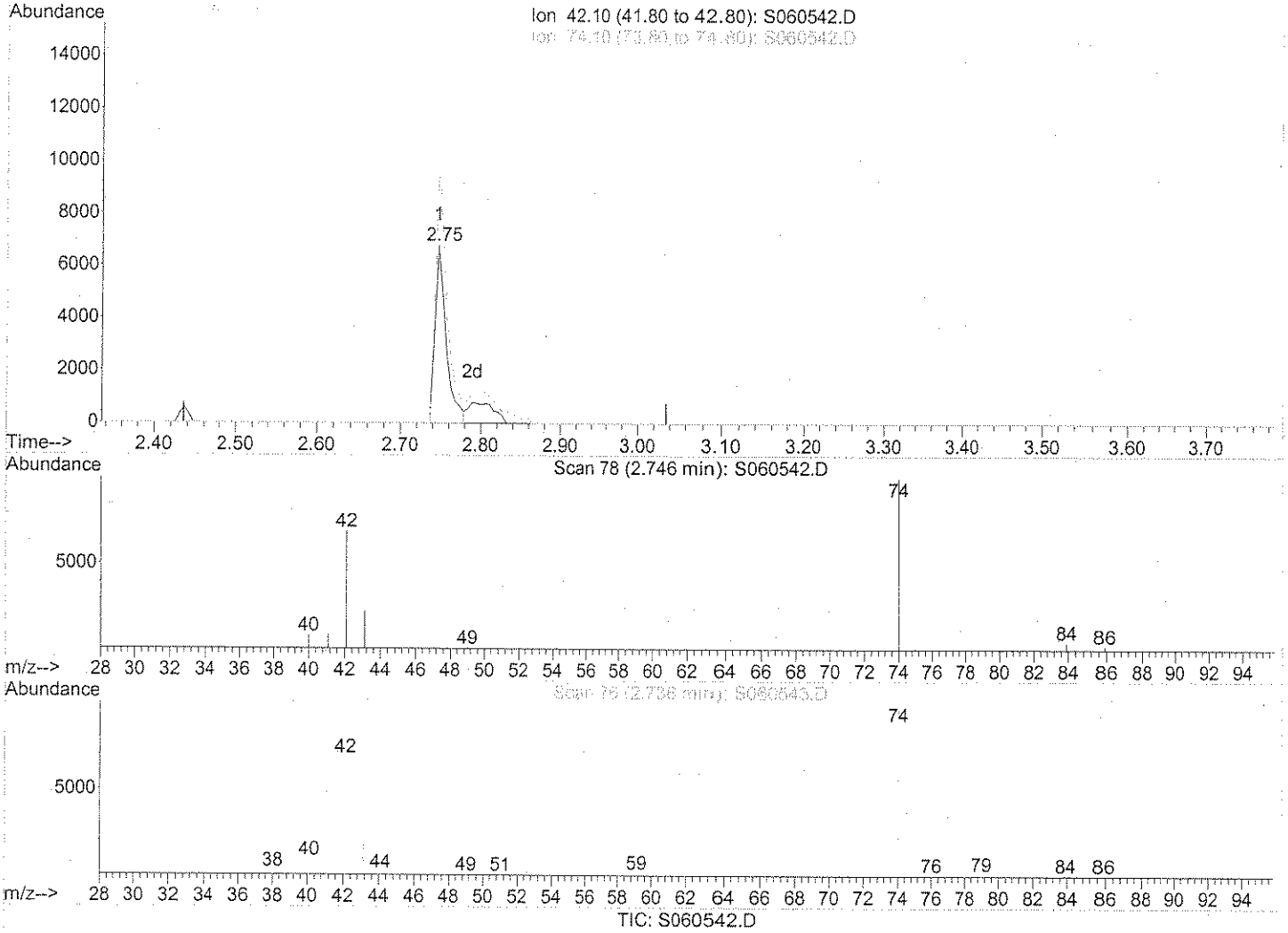
JDA 4/26/06

317

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:42 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.75min 3.07mg/L

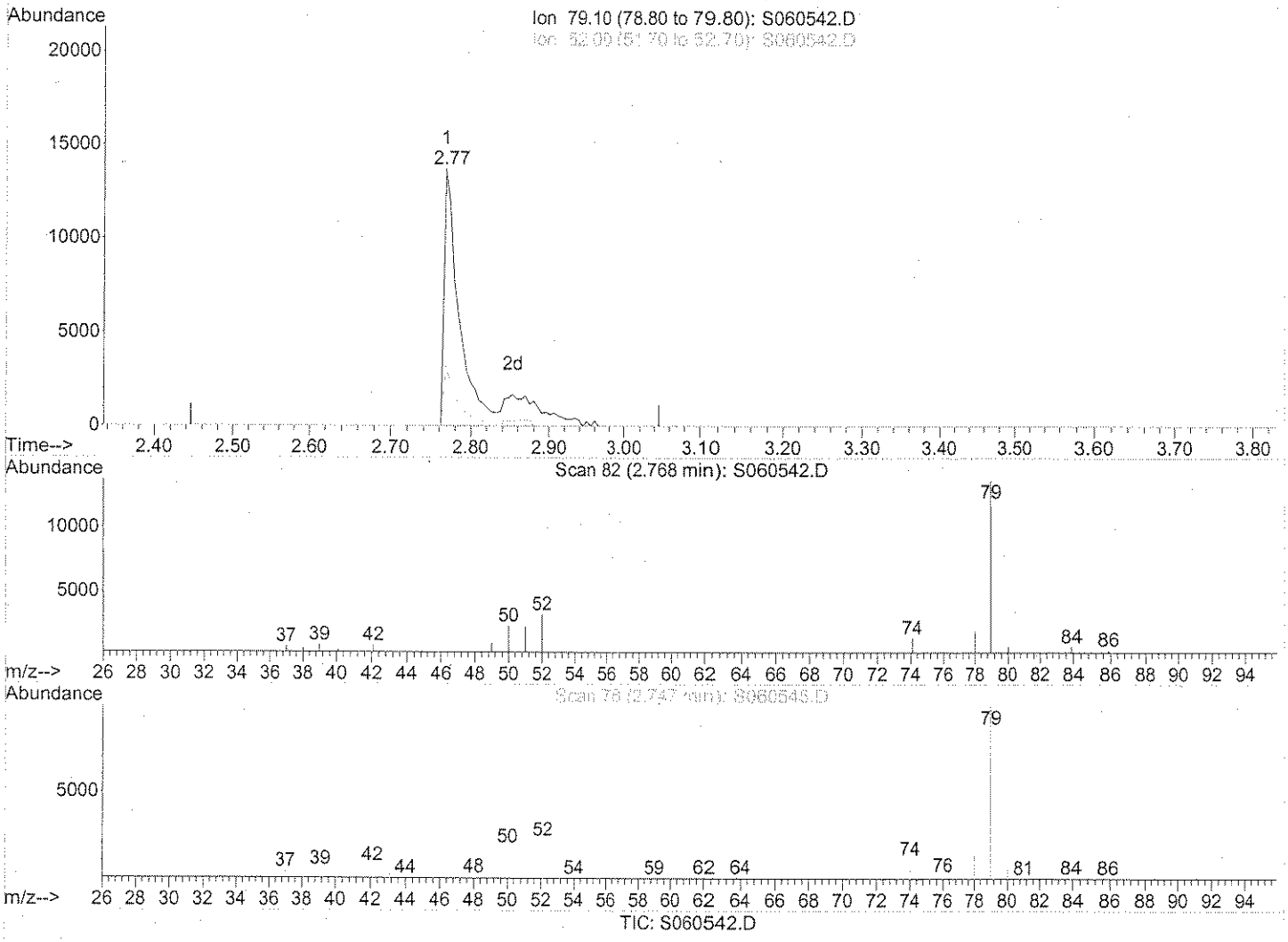
response 6555

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	149.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:42 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(4) Pyridine (T)

2.77min 4.46mg/L m

response 24109

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	15.30#
0.00	0.00	0.00
0.00	0.00	0.00

Spike pkg
4/25/06

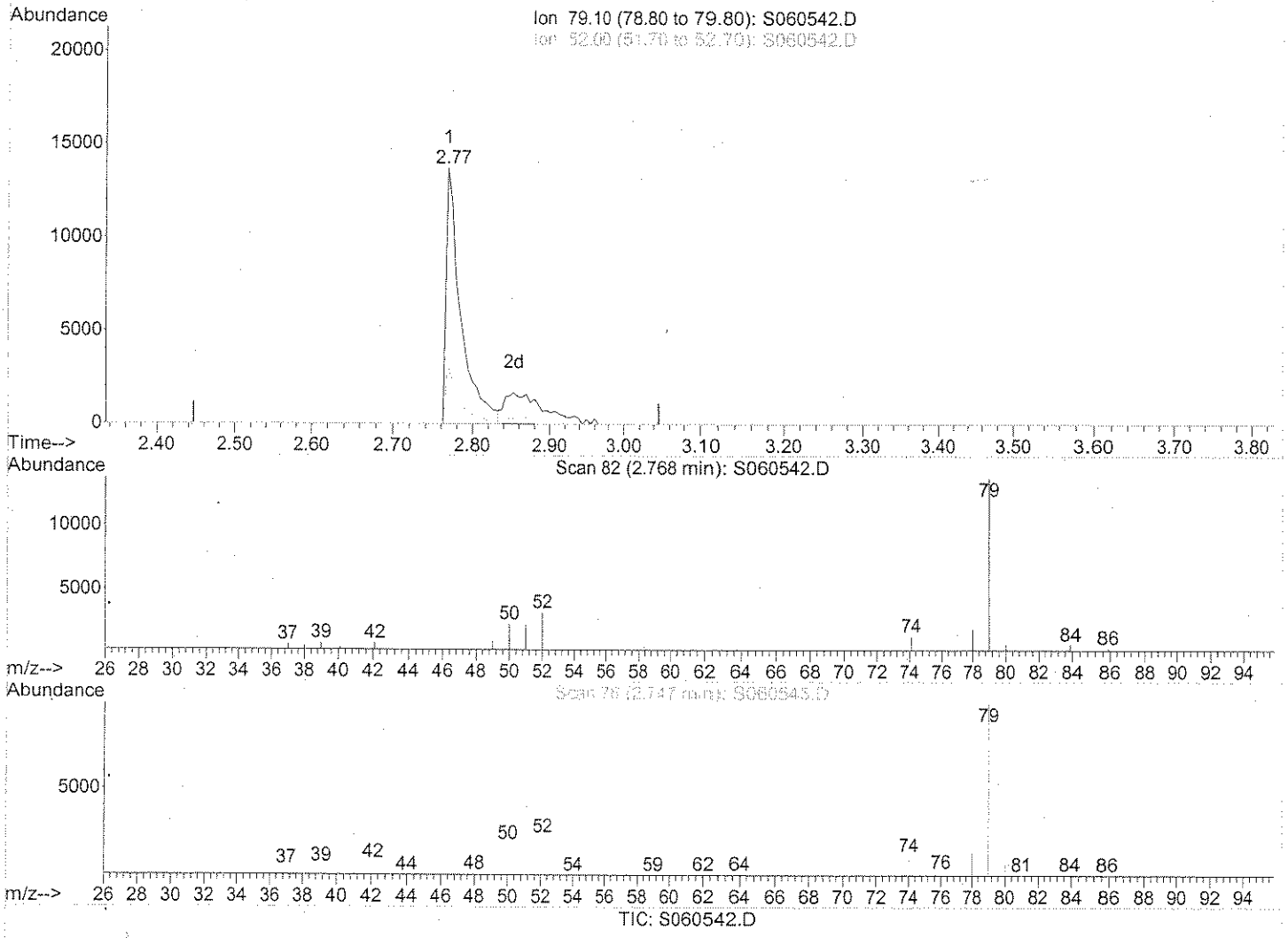
4/26/06

319

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:42 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(4) Pyridine (T)

2.77min 3.31mg/L

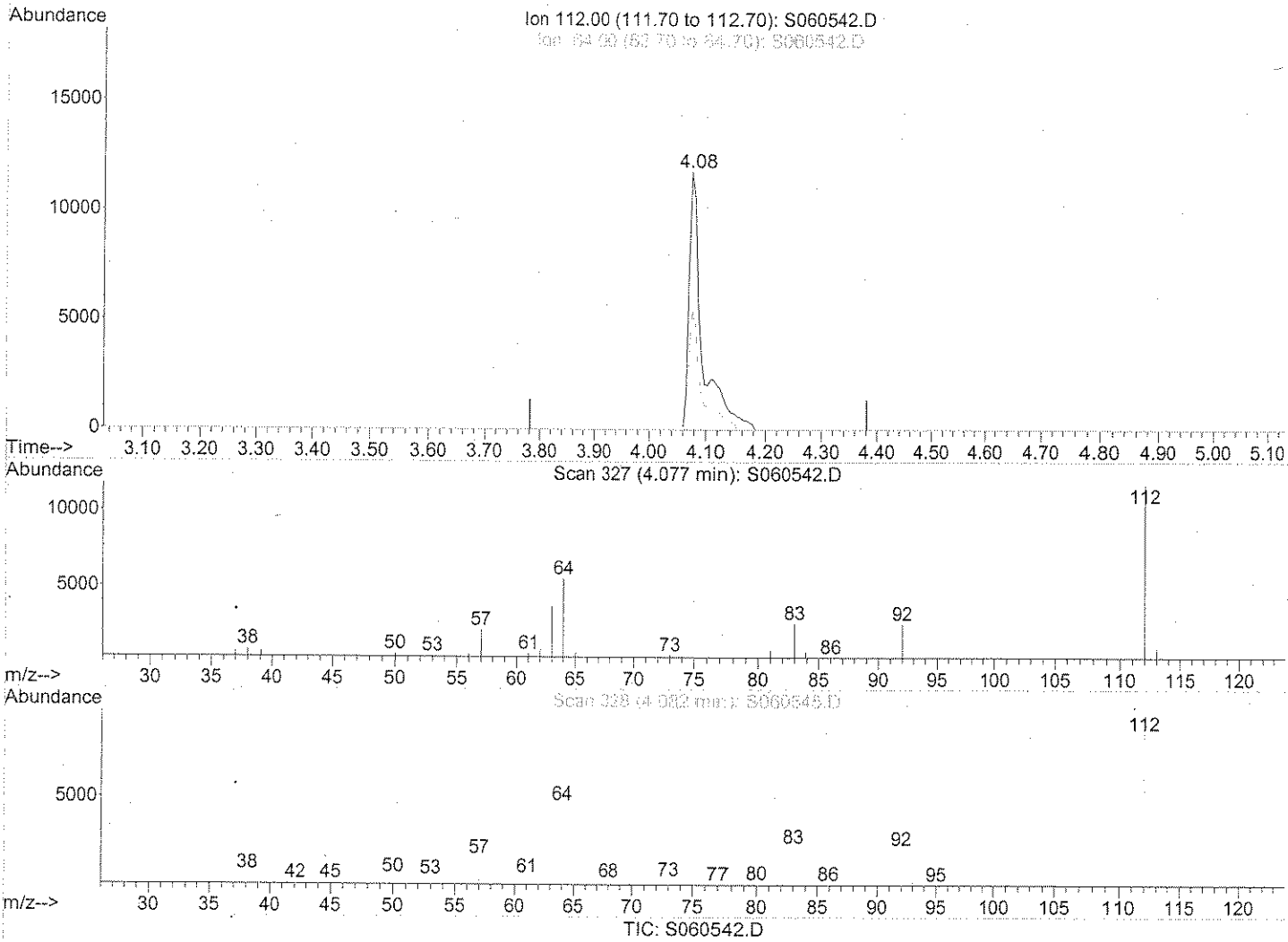
response 17931

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	20.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:43 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(6) 2-Fluorophenol (S)

4.08min 3.32mg/L m

response 19079

Ion	Exp%	Act%
112.00	100	100
64.00	52.30	44.71
0.00	0.00	0.00
0.00	0.00	0.00

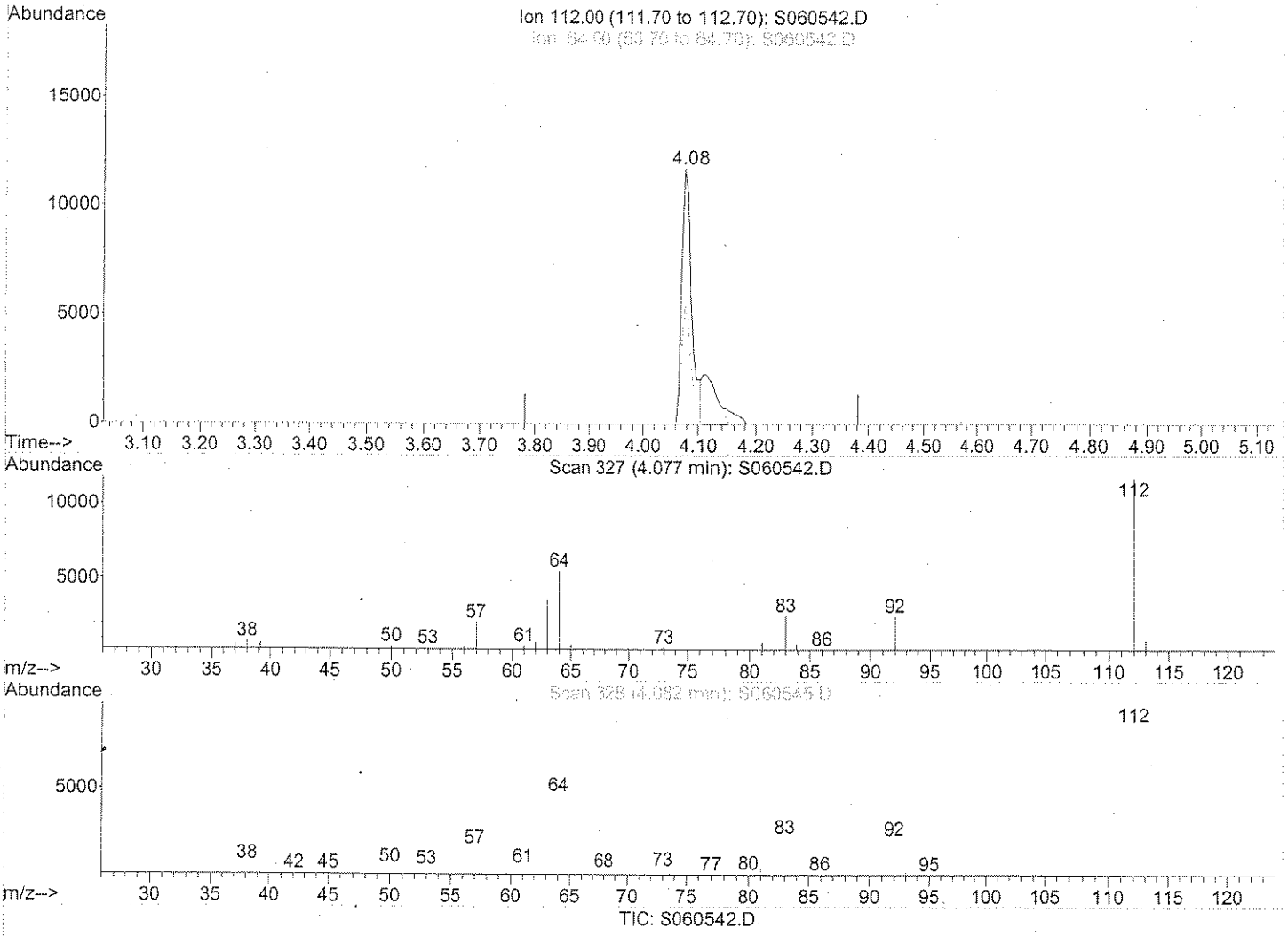
Split pair 4/27/06

JDH 4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:42 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(6) 2-Fluorophenol (S)

4.08min 2.48mg/L

response 14238

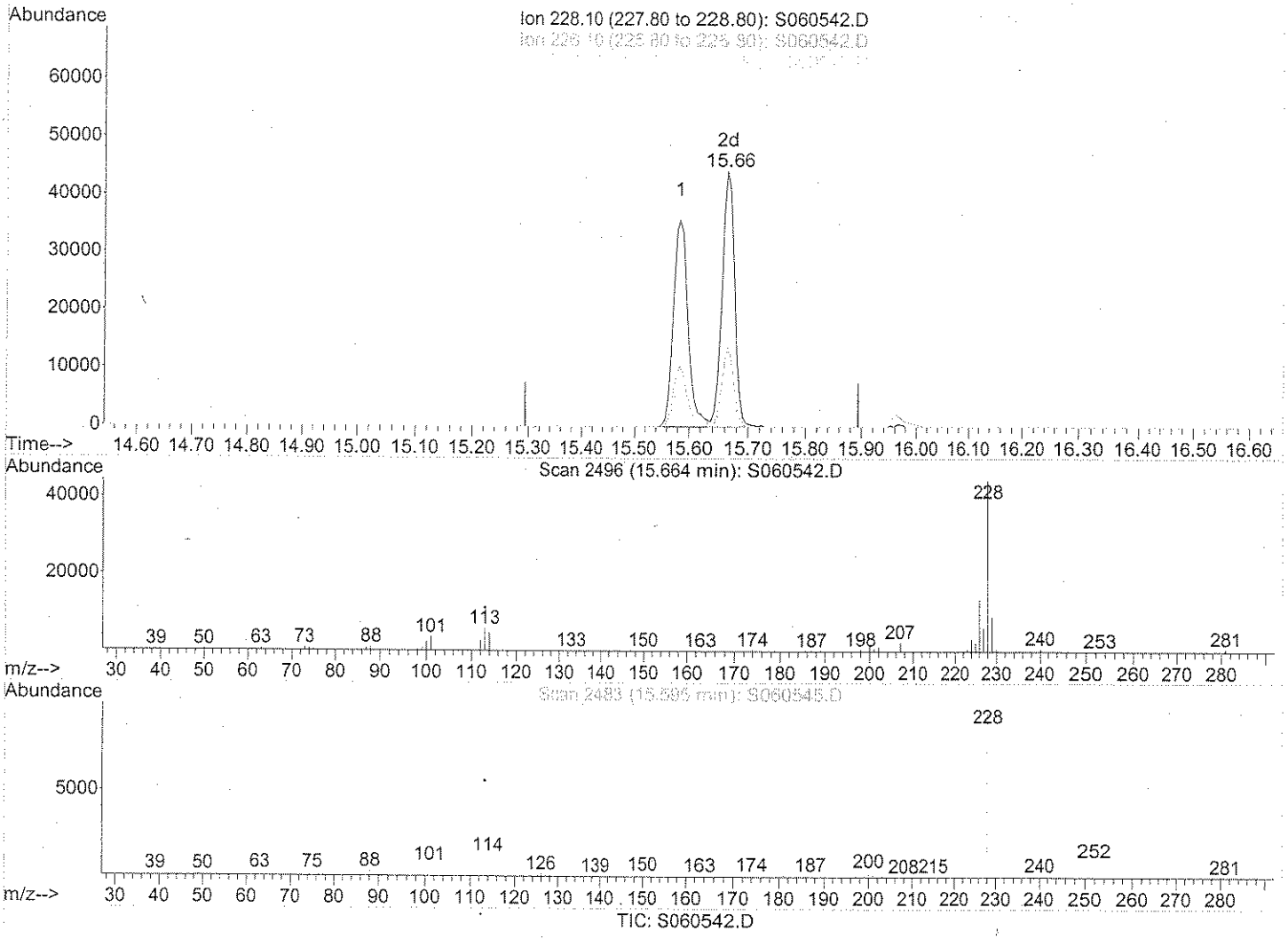
Ion	Exp%	Act%
112.00	100	100
64.00	52.30	59.91
0.00	0.00	0.00
0.00	0.00	0.00

322

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6.
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:44 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.66min 3.44mg/L m

response 64310

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.59
229.10	19.40	19.51
0.00	0.00	0.00

Wrong Peak 4/27/06

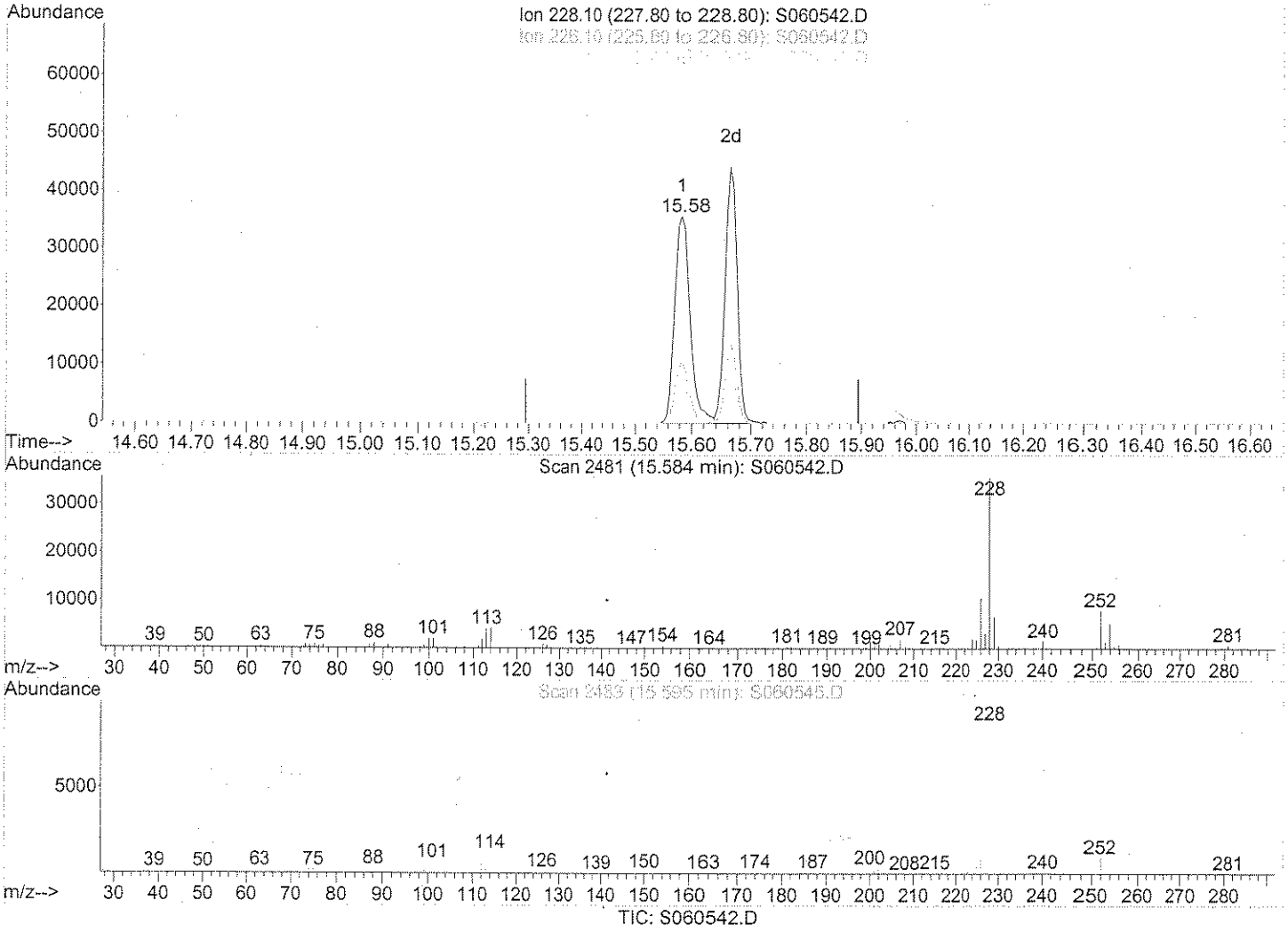
4/26/06

323

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:43 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.58min 3.51mg/L

response 65580

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.06
229.10	19.40	19.14
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:42:00 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	176045	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	686537	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	392296	40.00	mg/L	0.00
57) Phenanthrene-d10	11.36	188	676426	40.00	mg/L	0.00
70) Chrysene-d12	15.63	240	637028	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	347882	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.08	112	14238	2.48	mg/L	0.00
Spiked Amount 50.000			Recovery =	4.96%		
7) Phenol-d5	5.20	99	24398	3.36	mg/L	-0.02
Spiked Amount 50.000			Recovery =	6.72%		
23) Nitrobenzene-d5	6.37	82	23084	3.49	mg/L	0.00
Spiked Amount 50.000			Recovery =	6.98%		
41) 2-Fluorobiphenyl	8.66	172	46218	3.76	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.52%		
61) 2,4,6-Tribromophenol	10.51	330	6941	3.10	mg/L	0.00
Spiked Amount 50.000			Recovery =	6.20%		
73) Terphenyl-d14	13.68	244	51314	3.26	mg/L	-0.01
Spiked Amount 50.000			Recovery =	6.52%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	7759	3.58	mg/L #	56
3) N-Nitrosodimethylamine	2.75	42	6555	3.07	mg/L #	69
4) Pyridine	2.77	79	17931	3.31	mg/L #	46
5) PGMEA	4.00	43	12545	3.41	mg/L #	38
8) Aniline	5.27	93	25328	3.59	mg/L	99
9) Phenol	5.22	94	27262	3.50	mg/L #	84
10) Bis(2-chloroethyl)ether	5.32	93	22422	3.66	mg/L #	80
11) 2-Chlorophenol	5.40	128	22391	3.59	mg/L	93
12) 1,3-Dichlorobenzene	5.57	146	26621	3.67	mg/L	98
13) 1,4-Dichlorobenzene	5.64	146	27819	3.78	mg/L	94
14) Benzyl alcohol	5.83	108	11356	3.16	mg/L #	73
15) 1,2-Dichlorobenzene	5.89	146	26203	3.73	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.92	99	11218	5.91	mg/L	97
17) 2-Methylphenol	5.98	108	20316	3.54	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.02	45	5165	3.53	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.19	70	17415	3.45	mg/L #	50
20) Hexachloroethane	6.28	117	10936	3.62	mg/L	88
21) 3- and 4-Methylphenol Coel	6.17	107	24201	3.32	mg/L #	92
24) Nitrobenzene	6.40	77	26060	3.51	mg/L #	72
25) Isophorone	6.68	82	43253	3.42	mg/L	98
26) 2-Nitrophenol	6.81	139	10579	3.27	mg/L #	94
27) 2,4-Dimethylphenol	6.85	122	18830	3.55	mg/L	95
28) Bis(2-chloroethoxy)methane	6.97	93	24160	3.61	mg/L #	83
29) 2,4-Dichlorophenol	7.10	162	17163	3.27	mg/L	98
30) 1,2,4-Trichlorobenzene	7.21	180	21758	3.74	mg/L	99
31) Benzoic acid	6.95	122	4182	1.09	mg/L	98
32) Naphthalene	7.29	128	66097	3.79	mg/L	99
33) 4-Chloroaniline	7.39	127	21921	4.40	mg/L	98
34) Hexachlorobutadiene	7.52	225	13349	3.77	mg/L	98

(#) = qualifier out of range (m) = manual integration
S060542.D BA060422.M Sun Apr 23 09:42:03 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:42:00 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

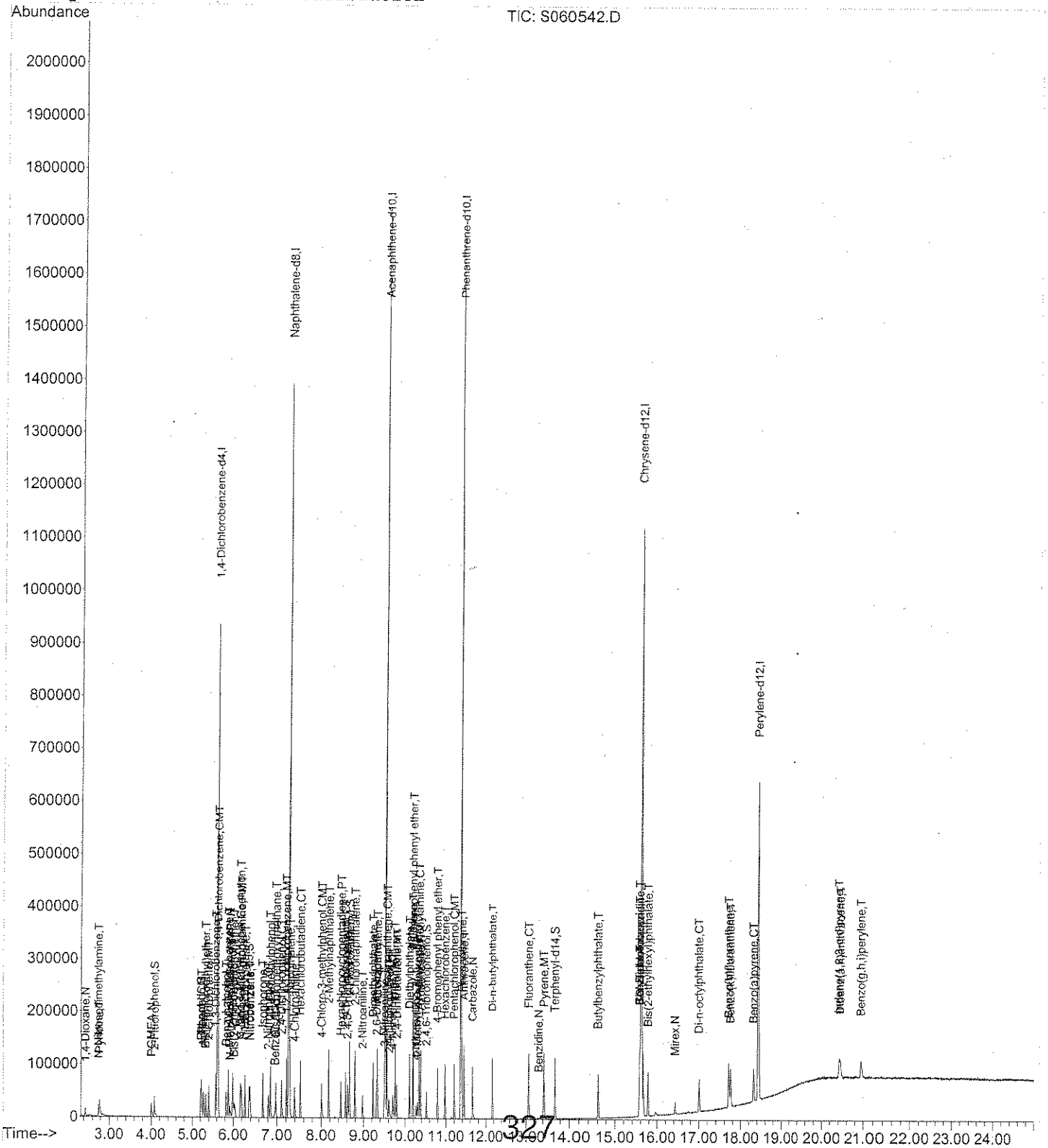
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.01	107	16435	3.28	mg/L		96
36)	2-Methylnaphthalene	8.17	142	43825	3.71	mg/L		98
38)	Hexachlorocyclopentadiene	8.46	237	13272	3.53	mg/L		96
39)	2,4,6-Trichlorophenol	8.56	196	12482	3.29	mg/L		96
40)	2,4,5-Trichlorophenol	8.61	196	14247	3.40	mg/L		97
42)	2-Chloronaphthalene	8.79	162	40209	3.66	mg/L		99
43)	2-Nitroaniline	8.97	65	9731	2.92	mg/L		95
44)	Dimethylphthalate	9.22	163	44204	3.62	mg/L		95
45)	Acenaphthylene	9.33	152	62801	3.69	mg/L		99
46)	2,6-Dinitrotoluene	9.31	165	9849	3.19	mg/L	#	66
47)	3-Nitroaniline	9.49	138	8532	3.70	mg/L	#	79
48)	Acenaphthene	9.56	154	36901	3.70	mg/L		98
49)	2,4-Dinitrophenol	9.61	184	6790	1.79	mg/L	#	80
50)	Dibenzofuran	9.76	168	57247	3.72	mg/L		91
51)	4-Nitrophenol	9.70	109	8062	2.52	mg/L	#	53
52)	2,4-Dinitrotoluene	9.80	165	12270	3.34	mg/L	#	85
53)	Fluorene	10.19	166	45282	3.75	mg/L		97
54)	Diethylphthalate	10.10	149	44021	3.63	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.18	204	22558	3.61	mg/L		99
56)	4-Nitroaniline	10.26	138	7220	3.38	mg/L	#	81
58)	2-Methyl-4,6-dinitrophenol	10.30	198	5481	2.18	mg/L	#	87
59)	N-Nitrosodiphenylamine	10.34	169	32192	3.68	mg/L		97
60)	Azobenzene	10.38	77	54439	3.66	mg/L	#	91
62)	4-Bromophenyl phenyl ether	10.79	248	14010	3.50	mg/L		99
63)	Hexachlorobenzene	10.97	284	15897	3.72	mg/L		99
64)	Pentachlorophenol	11.20	266	14202	2.36	mg/L		99
65)	Phenanthrene	11.39	178	65427	3.83	mg/L		100
66)	Anthracene	11.44	178	62504	3.67	mg/L		99
67)	Carbazole	11.66	167	52642	4.04	mg/L		99
68)	Di-n-butylphthalate	12.17	149	71554	3.36	mg/L	#	98
69)	Fluoranthene	13.06	202	72477	3.63	mg/L	#	93
71)	Benzidine	13.29	184	2533	8.54	mg/L	#	66
72)	Pyrene	13.42	202	72783	3.22	mg/L		98
74)	Butylbenzylphthalate	14.61	149	27445	2.75	mg/L		91
75)	Benz(a)anthracene	15.58	228	65580	3.51	mg/L		99
76)	3,3'-Dichlorobenzidine	15.58	252	15508	3.91	mg/L		98
77)	Chrysene	15.58	228	65580	3.51	mg/L		97
78)	Bis(2-ethylhexyl)phthalate	15.78	149	37235	2.85	mg/L		100
79)	Mirex	16.43	272	5839	3.20	mg/L		98
81)	Di-n-octylphthalate	17.00	149	49376	2.02	mg/L		99
82)	Benzo(b)fluoranthene	17.70	252	54417	3.30	mg/L	#	93
83)	Benzo(k)fluoranthene	17.75	252	51437	3.34	mg/L	#	94
84)	Benzo(a)pyrene	18.32	252	42054	3.27	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.42	276	34662	3.30	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.46	278	26000	3.27	mg/L	#	86
87)	Benzo(g,h,i)perylene	20.96	276	29091	3.54	mg/L	#	74

(#) = qualifier out of range (m) = manual integration
S060542.D BA060422.M Sun Apr 23 09:42:03 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060542.D Vial: 6
Acq On : 22 Apr 2006 6:17 pm Operator: SC
Sample : SSTD004 Inst : MSS
Misc : SSTD004;;;;;;;23-MS-43-11 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:42 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:36:17 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

4/23/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	214014	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	824107	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	470133	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	810087	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	758134	40.00	mg/L	0.00
80) Perylene-d12	18.43	264	386798	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	61198m	8.77	mg/L	-0.01
Spiked Amount 50.000			Recovery =	17.54%		
7) Phenol-d5	5.20	99	77490	8.78	mg/L	-0.02
Spiked Amount 50.000			Recovery =	17.56%		
23) Nitrobenzene-d5	6.36	82	74031	9.32	mg/L	-0.01
Spiked Amount 50.000			Recovery =	18.64%		
41) 2-Fluorobiphenyl	8.66	172	137982	9.36	mg/L	-0.01
Spiked Amount 50.000			Recovery =	18.72%		
61) 2,4,6-Tribromophenol	10.51	330	22940	8.55	mg/L	-0.01
Spiked Amount 50.000			Recovery =	17.10%		
73) Terphenyl-d14	13.68	244	157740	8.41	mg/L	-0.02
Spiked Amount 50.000			Recovery =	16.82%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	28983m	11.01	mg/L	
3) N-Nitrosodimethylamine	2.74	42	26816m	10.33	mg/L	
4) Pyridine	2.76	79	73922m	11.24	mg/L	
5) PGMEA	3.99	43	39920	8.92	mg/L #	36
8) Aniline	5.26	93	80193	9.34	mg/L	98
9) Phenol	5.22	94	85726	9.06	mg/L #	83
10) Bis(2-chloroethyl)ether	5.32	93	69210	9.29	mg/L #	82
11) 2-Chlorophenol	5.40	128	69128	9.11	mg/L	94
12) 1,3-Dichlorobenzene	5.57	146	81873	9.28	mg/L	99
13) 1,4-Dichlorobenzene	5.64	146	83377	9.32	mg/L	98
14) Benzyl alcohol	5.82	108	39962	9.14	mg/L #	79
15) 1,2-Dichlorobenzene	5.88	146	79577	9.33	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.91	99	40474	17.54	mg/L	98
17) 2-Methylphenol	5.98	108	64445	9.23	mg/L	97
18) Bis(2-chloroisopropyl)ethe	6.01	45	15470	8.69	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.19	70	55279	9.01	mg/L #	51
20) Hexachloroethane	6.27	117	33180	9.04	mg/L #	84
21) 3- and 4-Methylphenol Coel	6.17	107	80084	9.03	mg/L #	93
24) Nitrobenzene	6.39	77	83735	9.40	mg/L #	74
25) Isophorone	6.68	82	140438	9.24	mg/L	98
26) 2-Nitrophenol	6.80	139	37734	9.72	mg/L #	96
27) 2,4-Dimethylphenol	6.84	122	58645	9.21	mg/L	94
28) Bis(2-chloroethoxy)methane	6.97	93	74713	9.30	mg/L	86
29) 2,4-Dichlorophenol	7.10	162	56013	8.90	mg/L	100
30) 1,2,4-Trichlorobenzene	7.20	180	66739	9.55	mg/L	99
31) Benzoic acid	6.98	122	27582	6.00	mg/L #	75
32) Naphthalene	7.29	128	197594	9.45	mg/L	99
33) 4-Chloroaniline	7.39	127	59393	9.94	mg/L	98
34) Hexachlorobutadiene	7.52	225	39666	9.34	mg/L	99

328

(#) = qualifier out of range (m) = manual integration
S060543.D BA060422.M Sun Apr 23 09:38:33 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:36:17 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

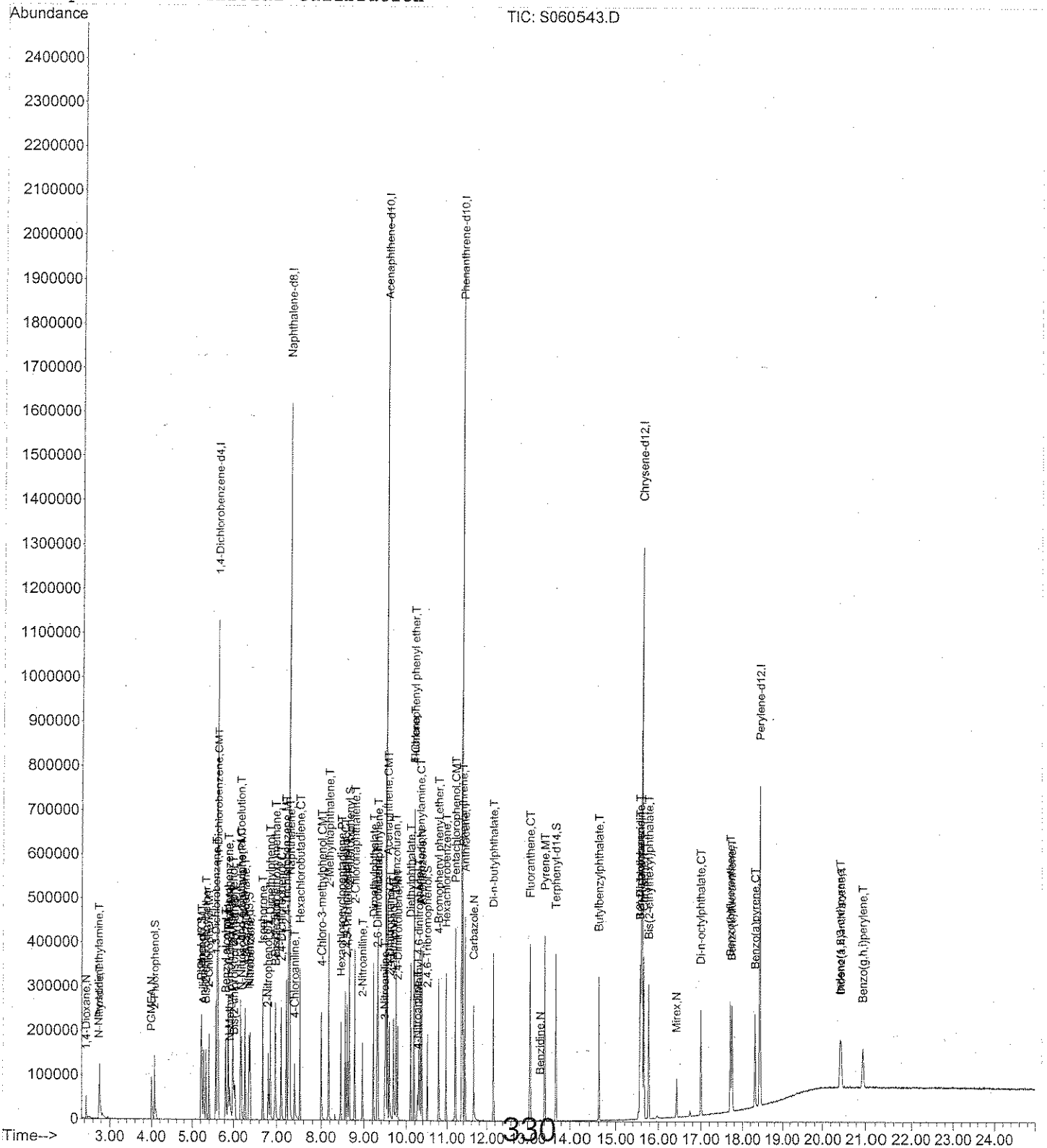
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.00	107	54800	9.11	mg/L		95
36)	2-Methylnaphthalene	8.17	142	133285	9.39	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	41277	9.17	mg/L		97
39)	2,4,6-Trichlorophenol	8.56	196	41764	9.20	mg/L		99
40)	2,4,5-Trichlorophenol	8.61	196	45115	8.98	mg/L		97
42)	2-Chloronaphthalene	8.78	162	122899	9.32	mg/L		99
43)	2-Nitroaniline	8.96	65	34107	8.54	mg/L		98
44)	Dimethylphthalate	9.22	163	137309	9.37	mg/L		94
45)	Acenaphthylene	9.32	152	194801	9.55	mg/L		99
46)	2,6-Dinitrotoluene	9.31	165	32455	8.77	mg/L	#	70
47)	3-Nitroaniline	9.49	138	23189	8.39	mg/L	#	71
48)	Acenaphthene	9.55	154	112828	9.43	mg/L		99
49)	2,4-Dinitrophenol	9.60	184	33562	7.39	mg/L		92
50)	Dibenzofuran	9.75	168	173078	9.40	mg/L		94
51)	4-Nitrophenol	9.69	109	28945	7.56	mg/L	#	64
52)	2,4-Dinitrotoluene	9.79	165	39513	8.97	mg/L		86
53)	Fluorene	10.18	166	138413	9.56	mg/L		97
54)	Diethylphthalate	10.10	149	137869	9.49	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.18	204	70037	9.35	mg/L		98
56)	4-Nitroaniline	10.27	138	23085	9.02	mg/L	#	74
58)	2-Methyl-4,6-dinitrophenol	10.30	198	23626	7.83	mg/L	#	84
59)	N-Nitrosodiphenylamine	10.33	169	94343	9.00	mg/L		95
60)	Azobenzene	10.38	77	167925	9.42	mg/L		92
62)	4-Bromophenyl phenyl ether	10.79	248	43578	9.09	mg/L		99
63)	Hexachlorobenzene	10.97	284	48216	9.42	mg/L		99
64)	Pentachlorophenol	11.20	266	57025	7.90	mg/L		98
65)	Phenanthrene	11.38	178	193303	9.44	mg/L		99
66)	Anthracene	11.44	178	193360	9.49	mg/L		100
67)	Carbazole	11.65	167	150087	9.63	mg/L		100
68)	Di-n-butylphthalate	12.16	149	229322	8.98	mg/L	#	98
69)	Fluoranthene	13.06	202	220446	9.22	mg/L	#	94
71)	Benzidine	13.29	184	769	2.18	mg/L	#	66
72)	Pyrene	13.42	202	224604	8.35	mg/L		100
74)	Butylbenzylphthalate	14.61	149	96799	8.15	mg/L		92
75)	Benz(a)anthracene	15.58	228	201484	9.07	mg/L		99
76)	3,3'-Dichlorobenzidine	15.57	252	25905	5.48	mg/L		96
77)	Chrysene	15.66	228	190517m	8.57	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.78	149	134675	8.66	mg/L		100
79)	Mirex	16.42	272	18195	8.37	mg/L		95
81)	Di-n-octylphthalate	17.00	149	180467	6.64	mg/L		100
82)	Benzo(b)fluoranthene	17.70	252	152954	8.35	mg/L	#	93
83)	Benzo(k)fluoranthene	17.75	252	155020	9.05	mg/L	#	94
84)	Benzo(a)pyrene	18.31	252	127823	8.93	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.41	276	100601	8.61	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.45	278	75973	8.59	mg/L	#	86
87)	Benzo(g,h,i)perylene	20.95	276	79023	8.66	mg/L	#	77

(#) = qualifier out of range (m) = manual integration
S060543.D BA060422.M Sun Apr 23 09:38:34 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:38 2006 Quant Results File: BA060422.RES

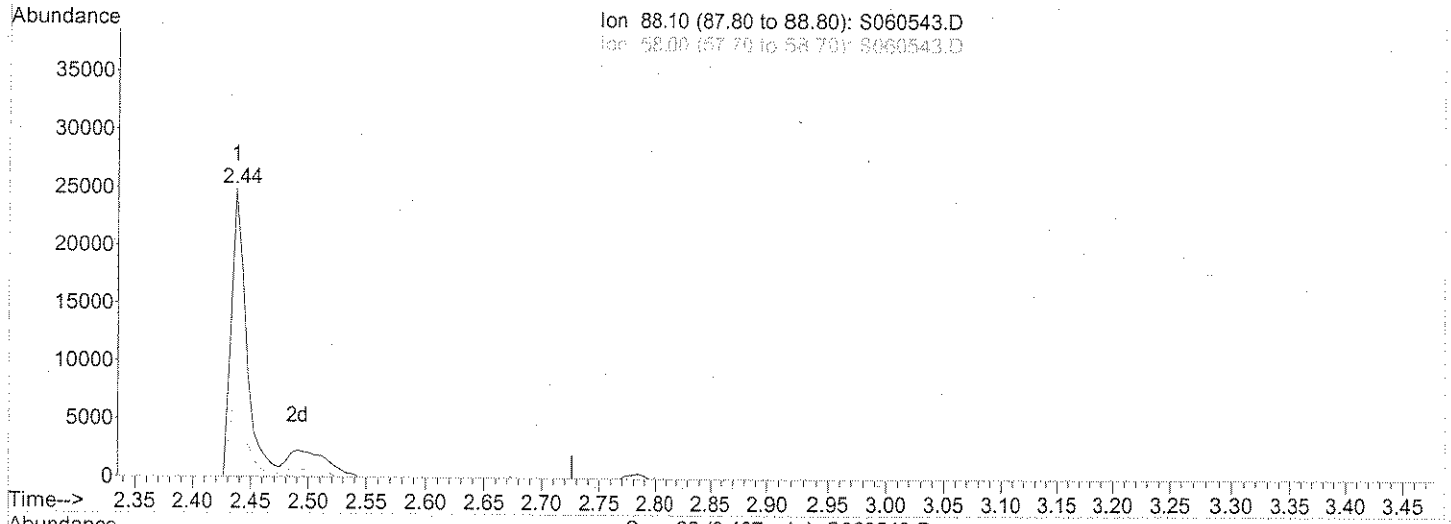
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration

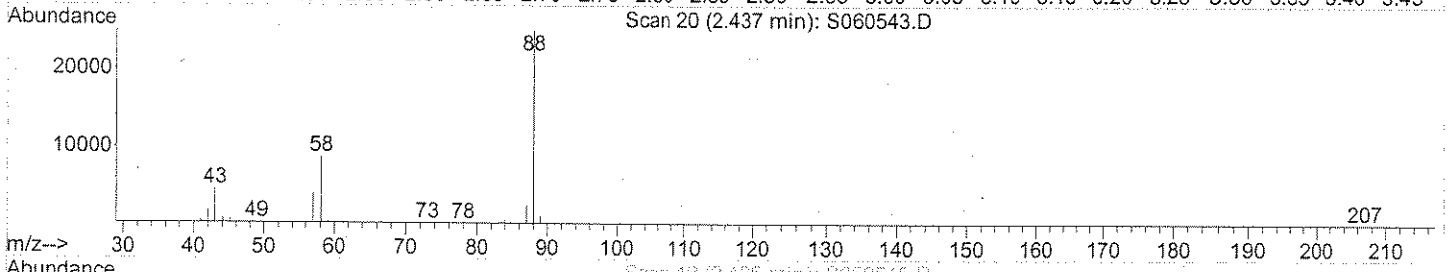


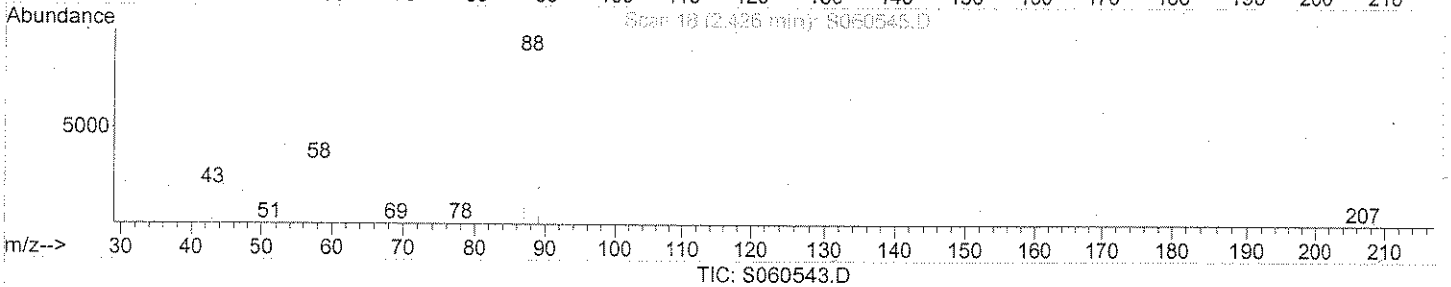
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:36 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







TIC: S060543.D

(2) 1,4-Dioxane (N)

2.44min 11.01mg/L m

response 28983

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	27.13#
0.00	0.00	0.00
0.00	0.00	0.00

Split peak
4/23/06

AA 4/26/06

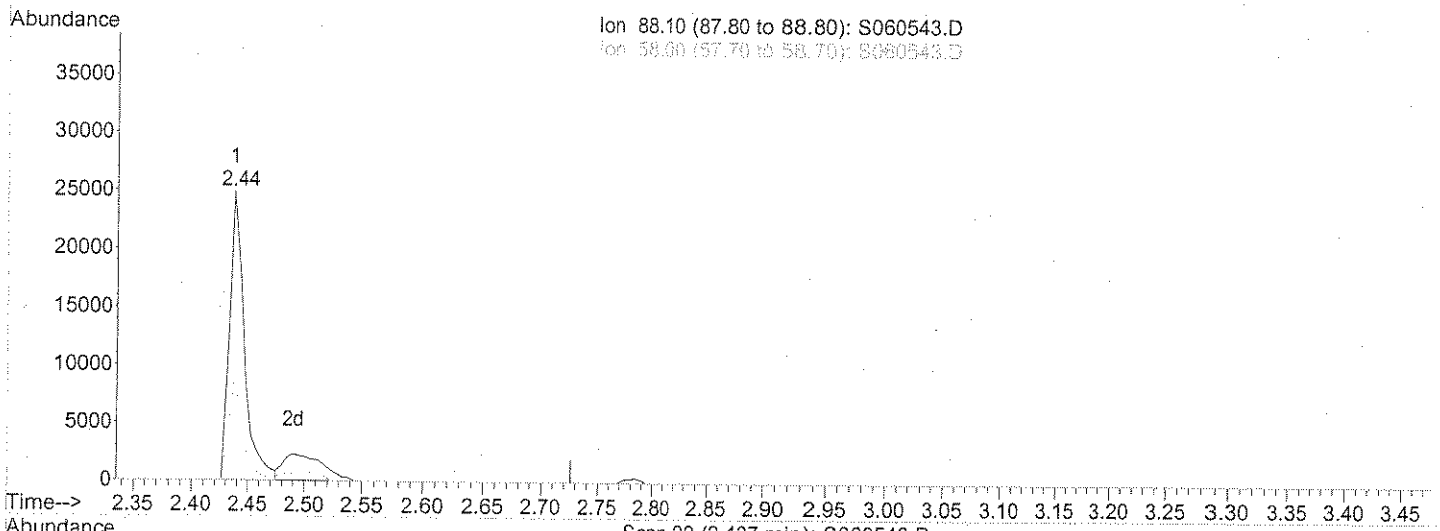
331

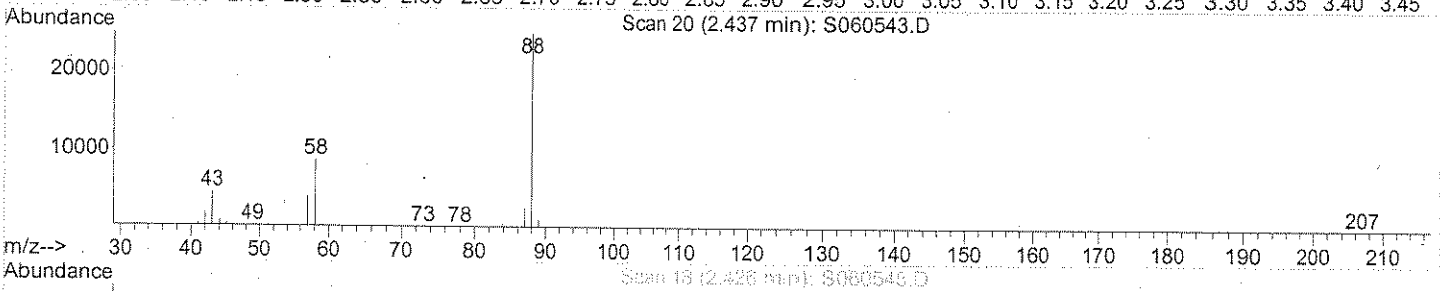
S060543.D BA060422.M Sun Apr 23 09:36:40 2006

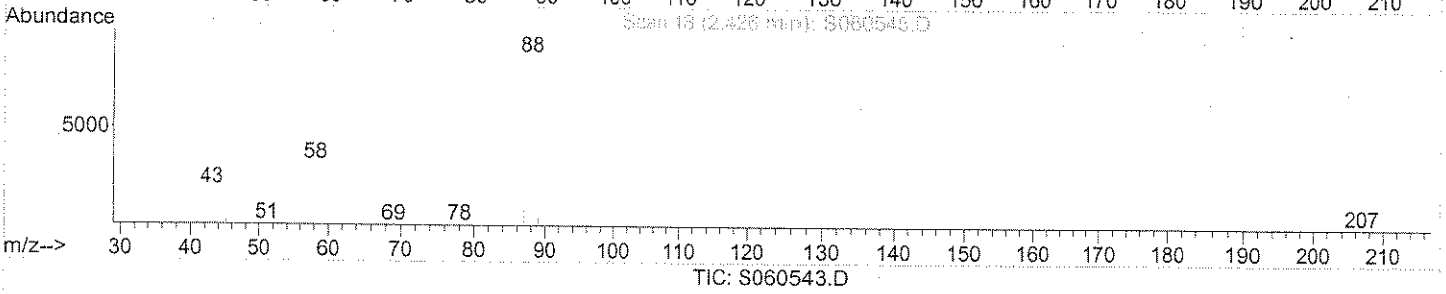
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:36 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







(2) 1,4-Dioxane (N)

2.44min 8.91mg/L

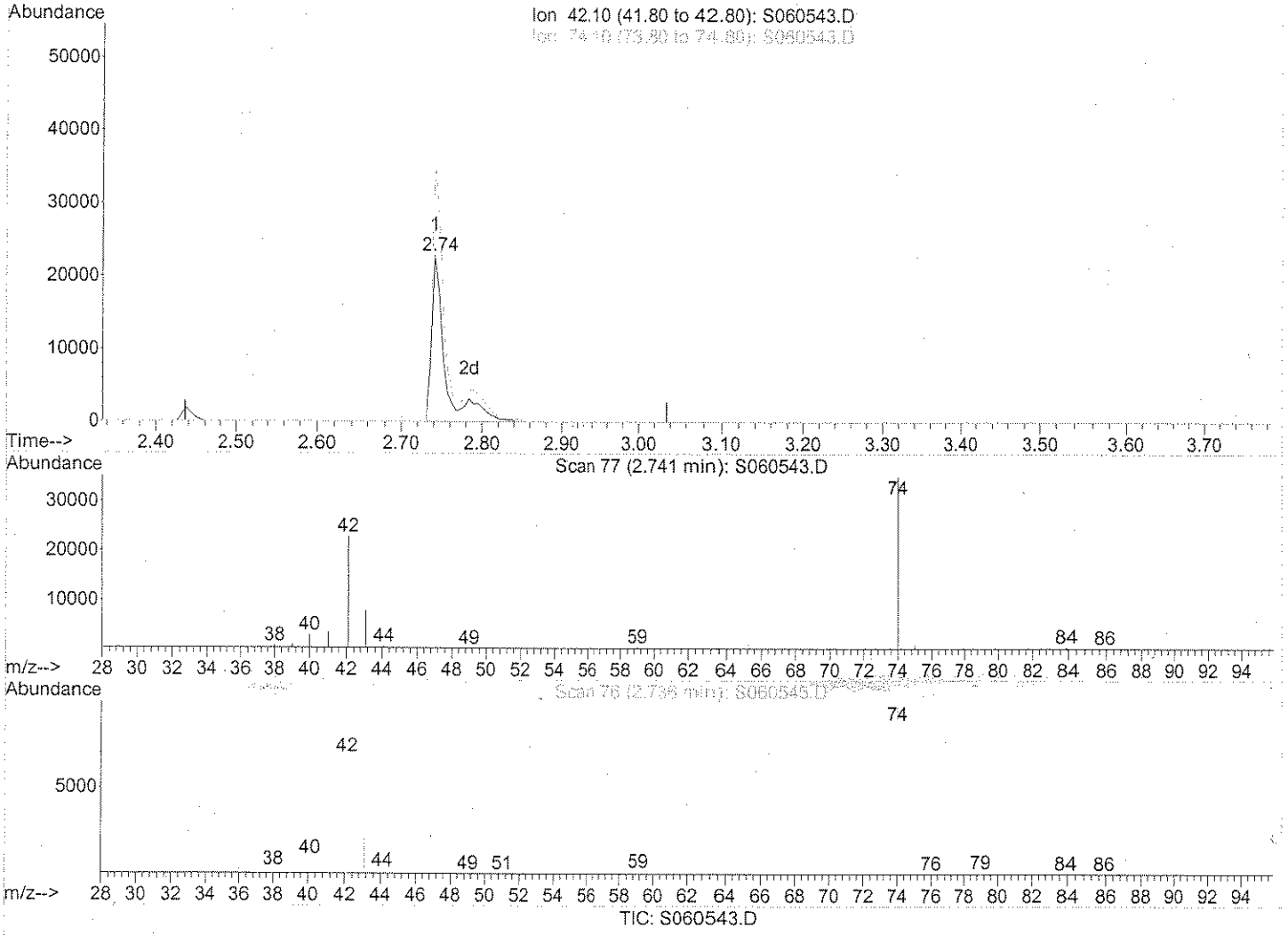
response 23454

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	33.52#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:36 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.74min 10.33mg/L m

response 26816

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	125.87
0.00	0.00	0.00
0.00	0.00	0.00

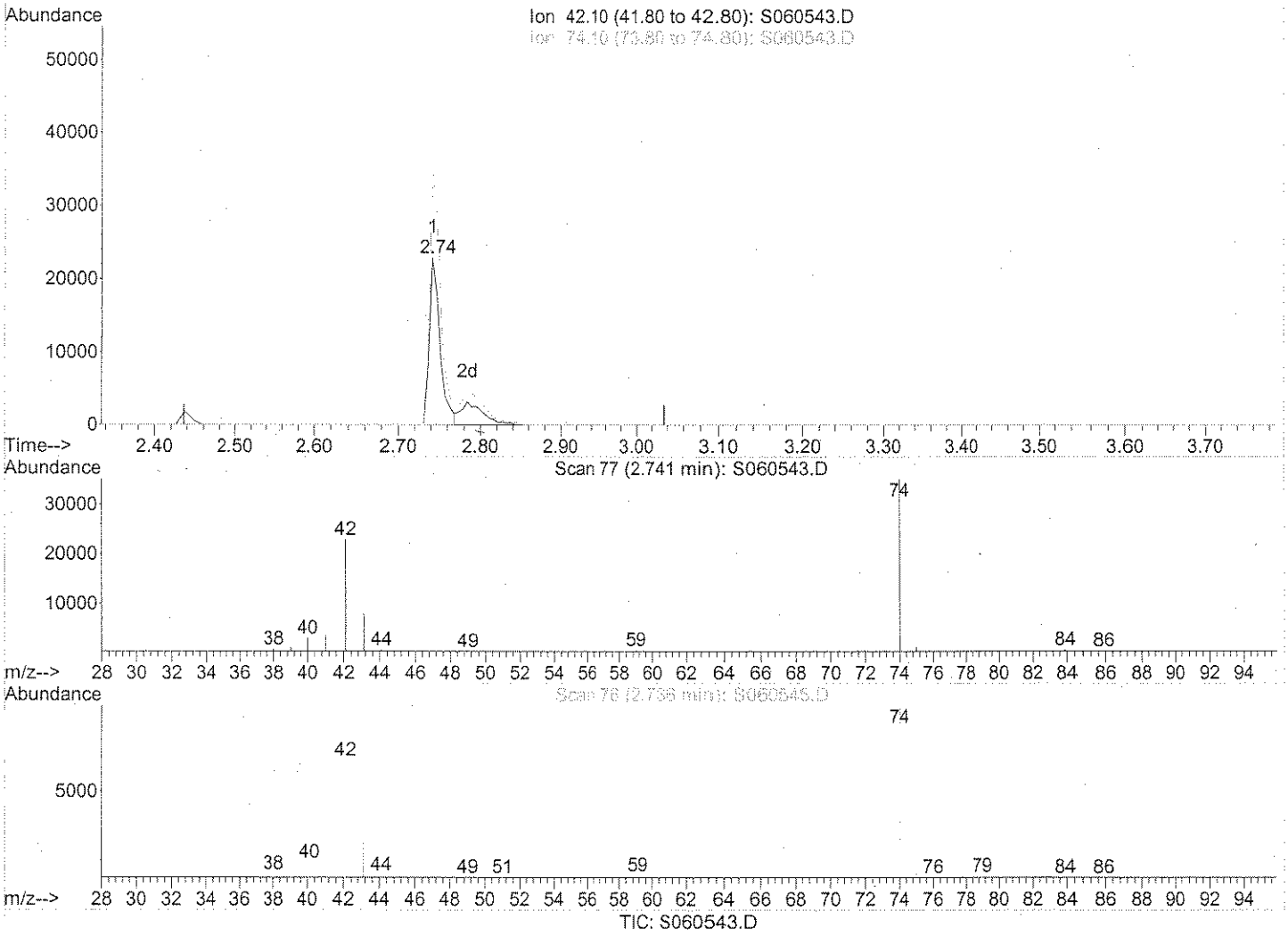
Spike Pair 4/23/06

DA 4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:36 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.74min 8.03mg/L

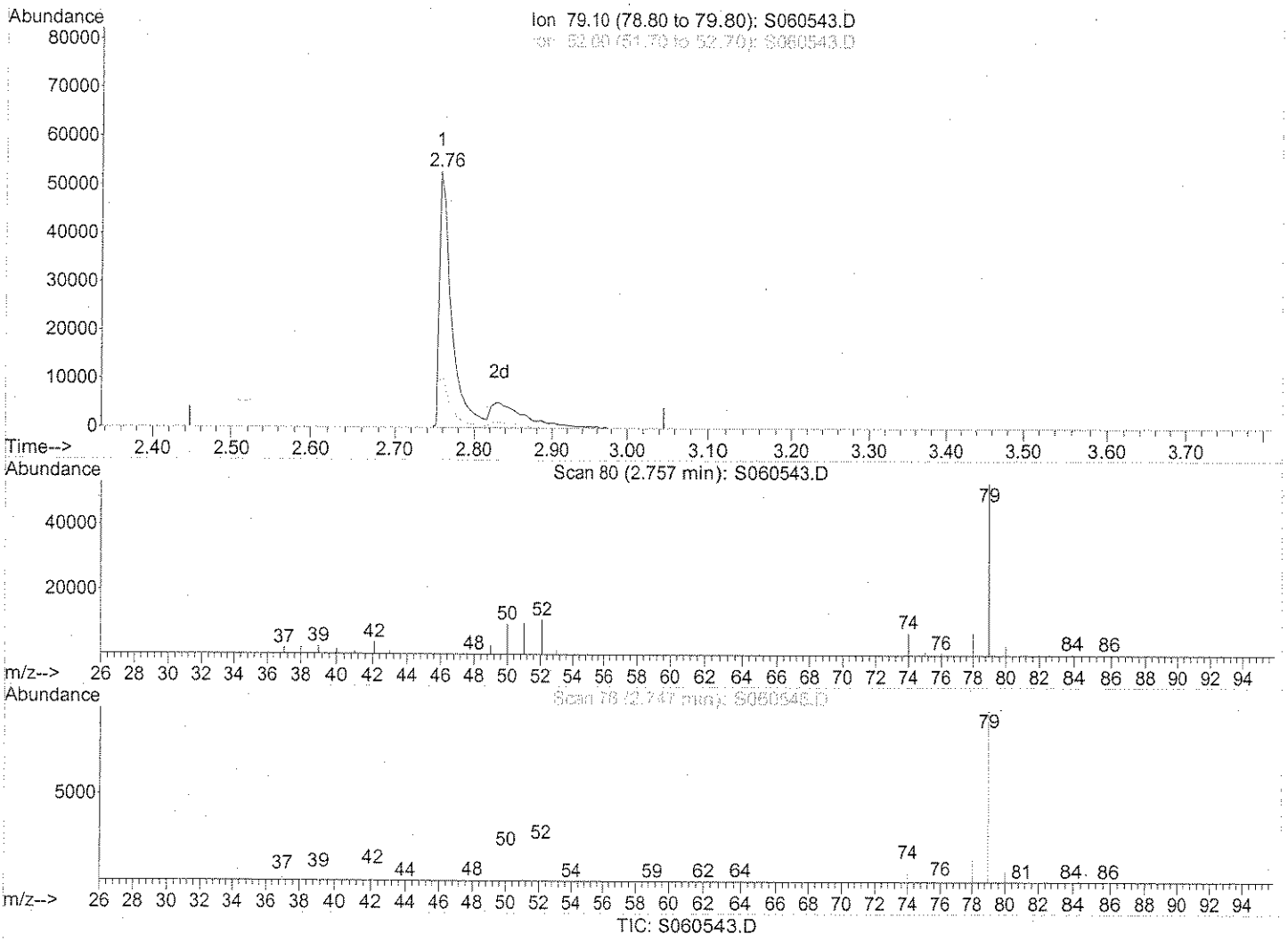
response 20829

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	162.04#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:37 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(4) Pyridine (T)

2.76min 11.24mg/L m

response 73922

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	15.91#
0.00	0.00	0.00
0.00	0.00	0.00

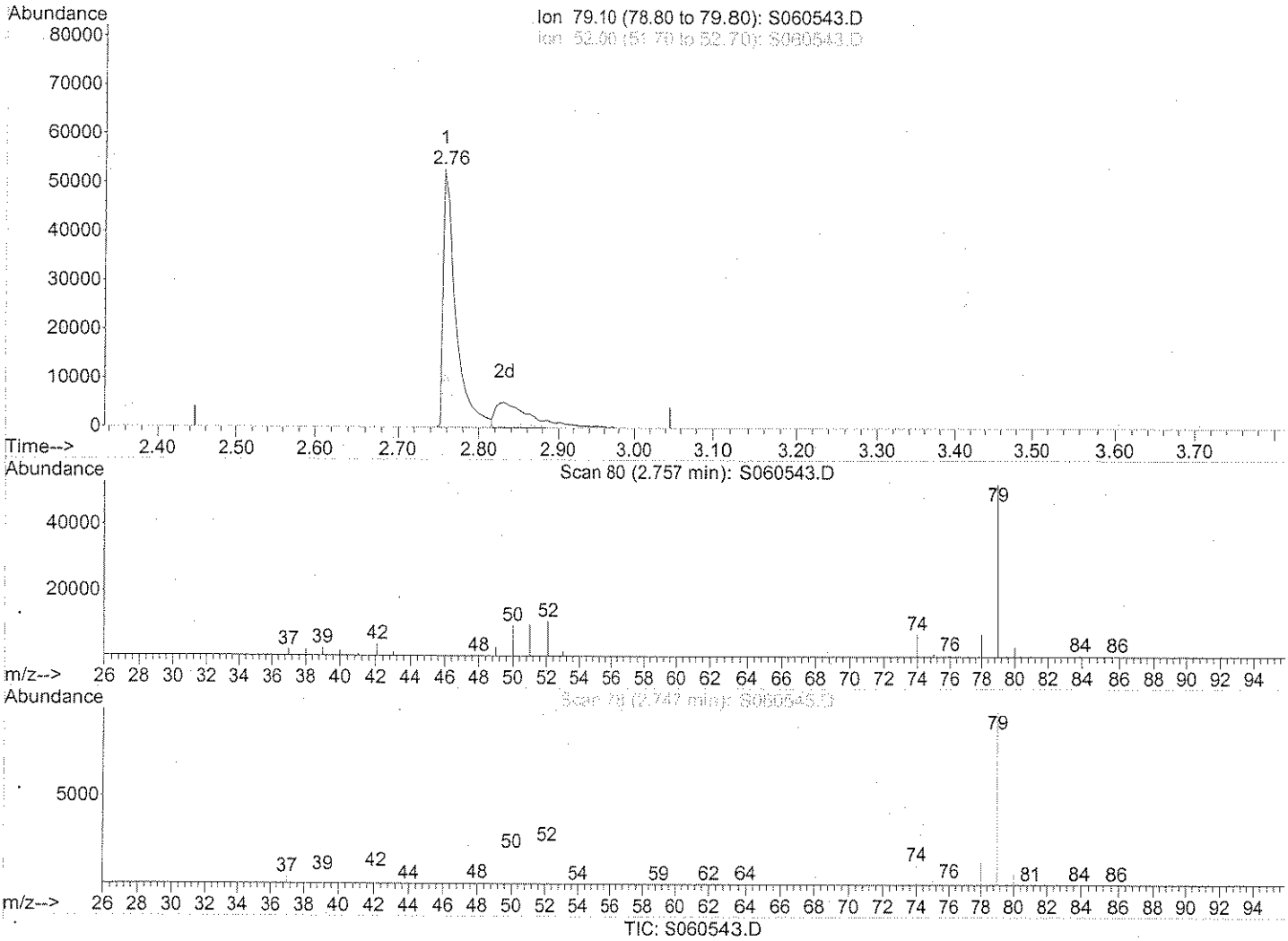
Split prog 4/27/06

DT 4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:36 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(4) Pyridine (T)

2.76min 8.79mg/L

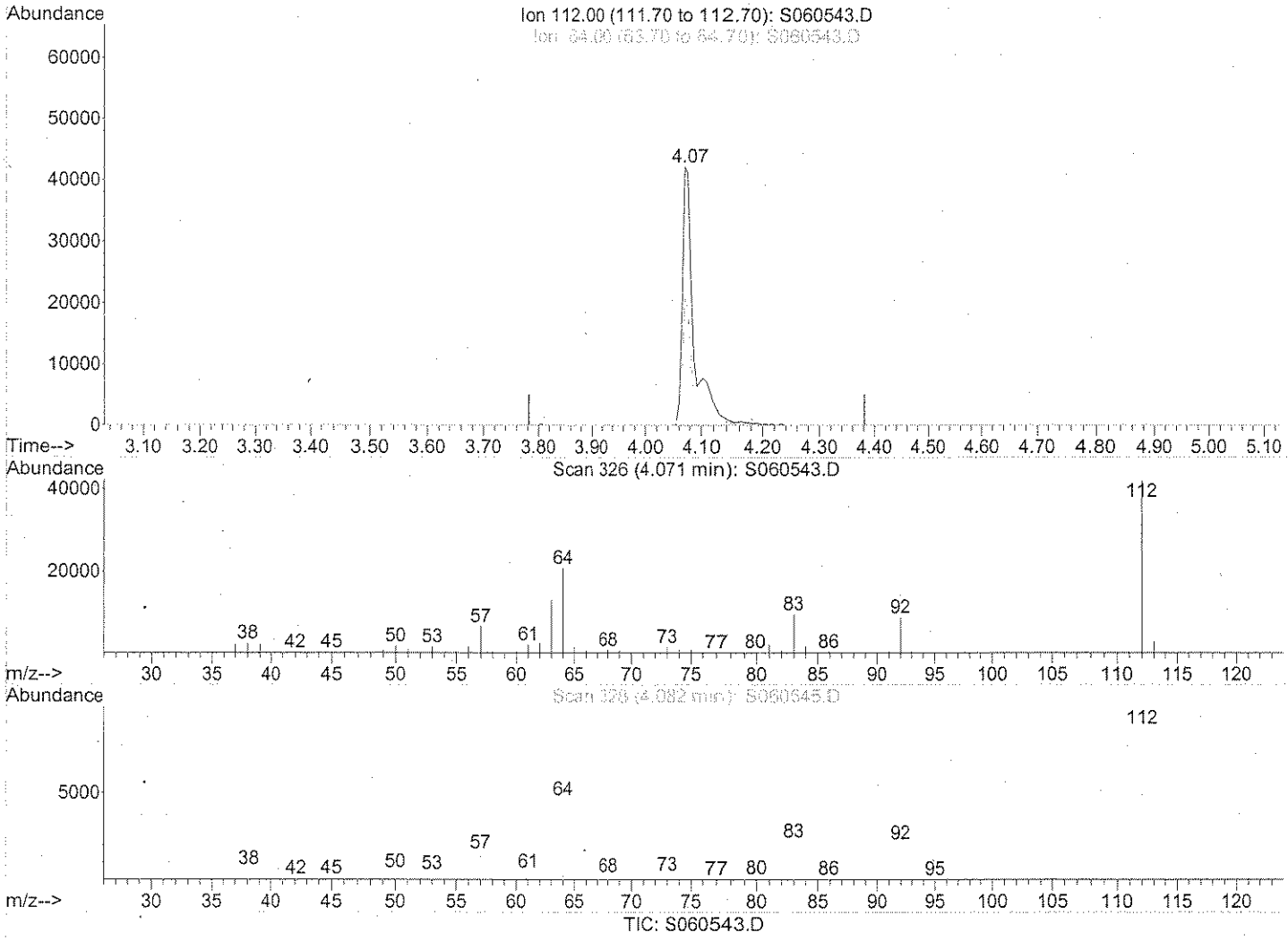
response 57842

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	20.33#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:37 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060543.D

(6) 2-Fluorophenol (S)

4.07min 8.77mg/L m

response 61198

Ion	Exp%	Act%
112.00	100	100
64.00	52.30	38.79#
0.00	0.00	0.00
0.00	0.00	0.00

Split pair 4/23/06

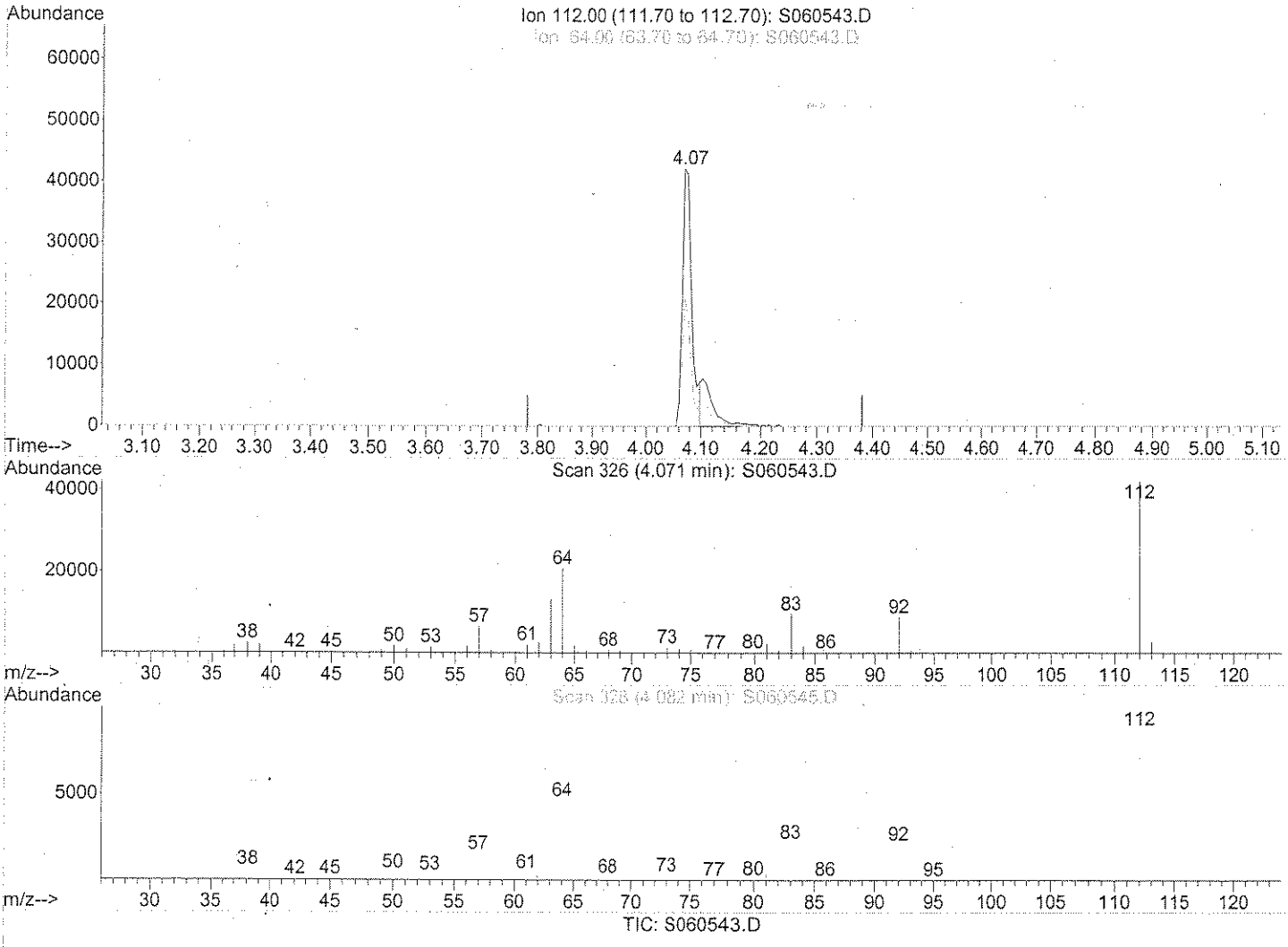
NOT 4/26/06

337

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:37 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(6) 2-Fluorophenol (S)

4.07min 7.17mg/L

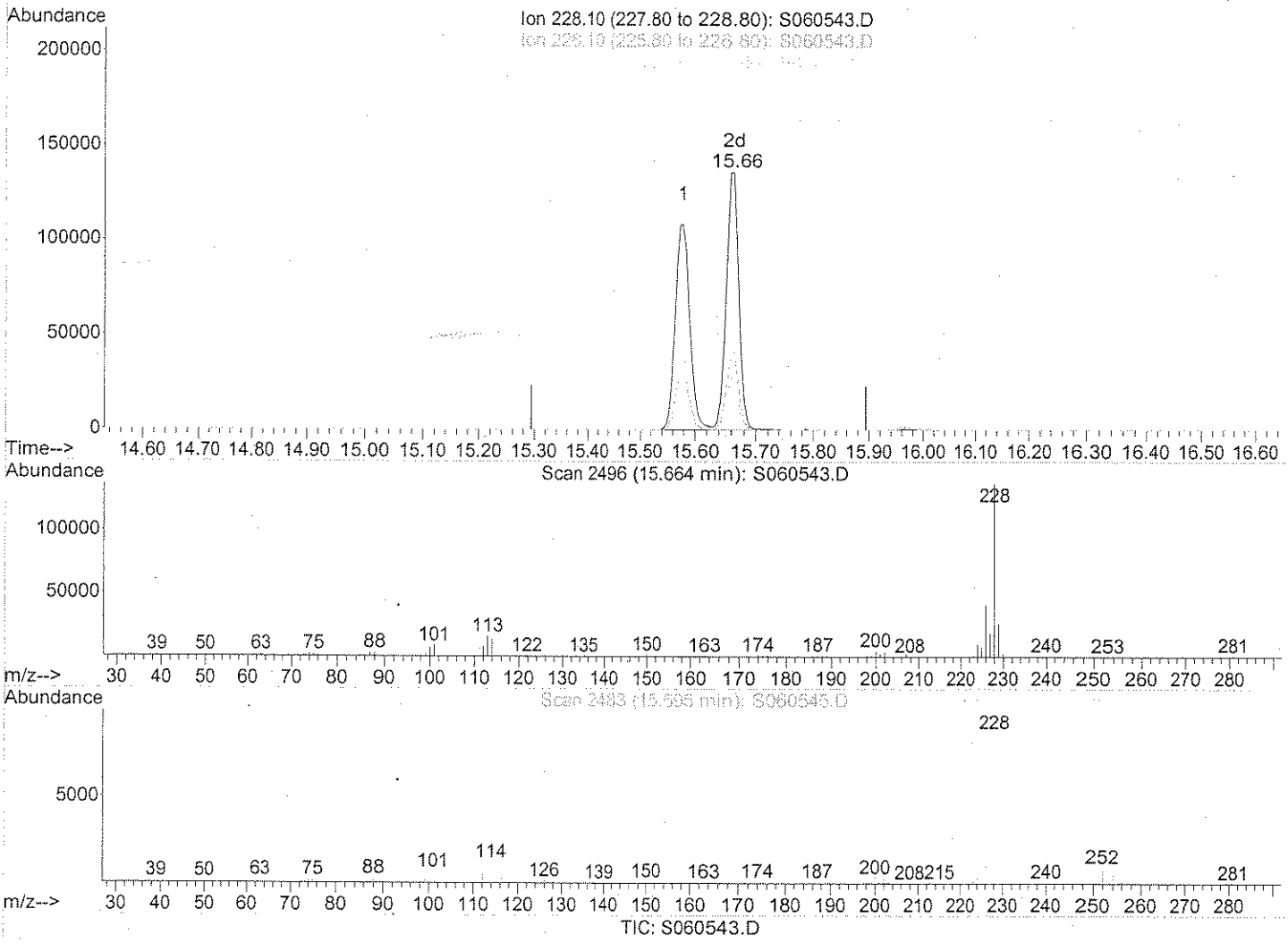
response 50000

Ion	Exp%	Act%
112.00	100	100
64.00	52.30	47.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:38 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.66min 8.57mg/L m

response 190517

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	28.78
229.10	19.40	20.41
0.00	0.00	0.00

Wrong pump 4/23/06

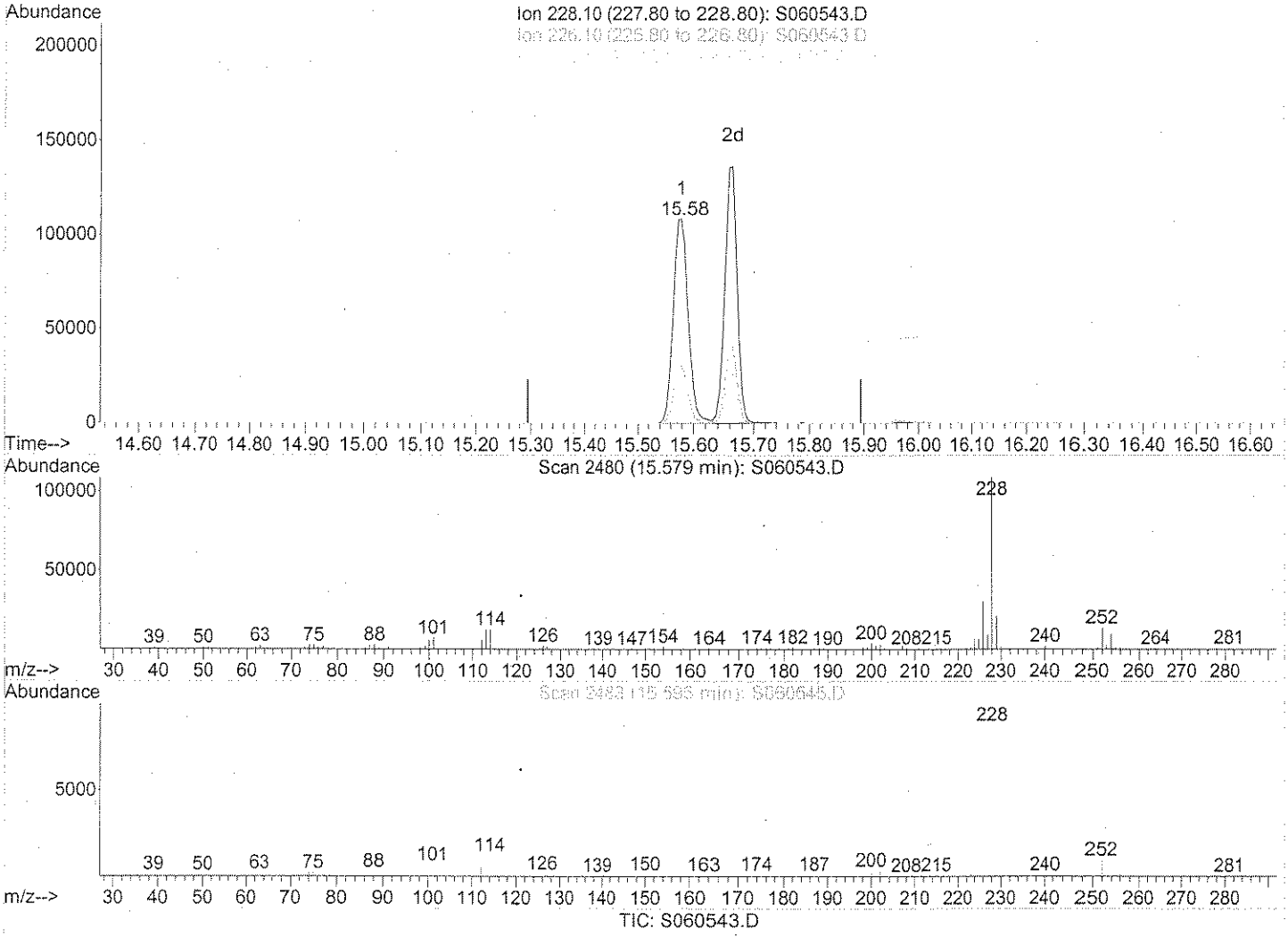
DA 4/26/06

339

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:37 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.58min 9.07mg/L

response 201484

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.21
229.10	19.40	19.30
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:36:17 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	214014	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	824107	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	470133	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	810087	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	758134	40.00	mg/L	0.00
80) Perylene-d12	18.43	264	386798	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.07	112	50000	7.17	mg/L	-0.01
Spiked Amount 50.000			Recovery = 14.34%			
7) Phenol-d5	5.20	99	77490	8.78	mg/L	-0.02
Spiked Amount 50.000			Recovery = 17.56%			
23) Nitrobenzene-d5	6.36	82	74031	9.32	mg/L	-0.01
Spiked Amount 50.000			Recovery = 18.64%			
41) 2-Fluorobiphenyl	8.66	172	137982	9.36	mg/L	-0.01
Spiked Amount 50.000			Recovery = 18.72%			
61) 2,4,6-Tribromophenol	10.51	330	22940	8.55	mg/L	-0.01
Spiked Amount 50.000			Recovery = 17.10%			
73) Terphenyl-d14	13.68	244	157740	8.41	mg/L	-0.02
Spiked Amount 50.000			Recovery = 16.82%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	23454	8.91	mg/L #	64
3) N-Nitrosodimethylamine	2.74	42	20829	8.03	mg/L #	57
4) Pyridine	2.76	79	57842	8.79	mg/L #	46
5) PGMEA	3.99	43	39920	8.92	mg/L #	36
8) Aniline	5.26	93	80193	9.34	mg/L	98
9) Phenol	5.22	94	85726	9.06	mg/L #	83
10) Bis(2-chloroethyl)ether	5.32	93	69210	9.29	mg/L #	82
11) 2-Chlorophenol	5.40	128	69128	9.11	mg/L	94
12) 1,3-Dichlorobenzene	5.57	146	81873	9.28	mg/L	99
13) 1,4-Dichlorobenzene	5.64	146	83377	9.32	mg/L	98
14) Benzyl alcohol	5.82	108	39962	9.14	mg/L #	79
15) 1,2-Dichlorobenzene	5.88	146	79577	9.33	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.91	99	40474	17.54	mg/L	98
17) 2-Methylphenol	5.98	108	64445	9.23	mg/L	97
18) Bis(2-chloroisopropyl)ethe	6.01	45	15470	8.69	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.19	70	55279	9.01	mg/L #	51
20) Hexachloroethane	6.27	117	33180	9.04	mg/L #	84
21) 3- and 4-Methylphenol Coel	6.17	107	80084	9.03	mg/L #	93
24) Nitrobenzene	6.39	77	83735	9.40	mg/L #	74
25) Isophorone	6.68	82	140438	9.24	mg/L	98
26) 2-Nitrophenol	6.80	139	37734	9.72	mg/L #	96
27) 2,4-Dimethylphenol	6.84	122	58645	9.21	mg/L	94
28) Bis(2-chloroethoxy)methane	6.97	93	74713	9.30	mg/L	86
29) 2,4-Dichlorophenol	7.10	162	56013	8.90	mg/L	100
30) 1,2,4-Trichlorobenzene	7.20	180	66739	9.55	mg/L	99
31) Benzoic acid	6.98	122	27582	6.00	mg/L #	75
32) Naphthalene	7.29	128	197594	9.45	mg/L	99
33) 4-Chloroaniline	7.39	127	59393	9.94	mg/L	98
34) Hexachlorobutadiene	7.52	225	39666	9.34	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:36:17 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

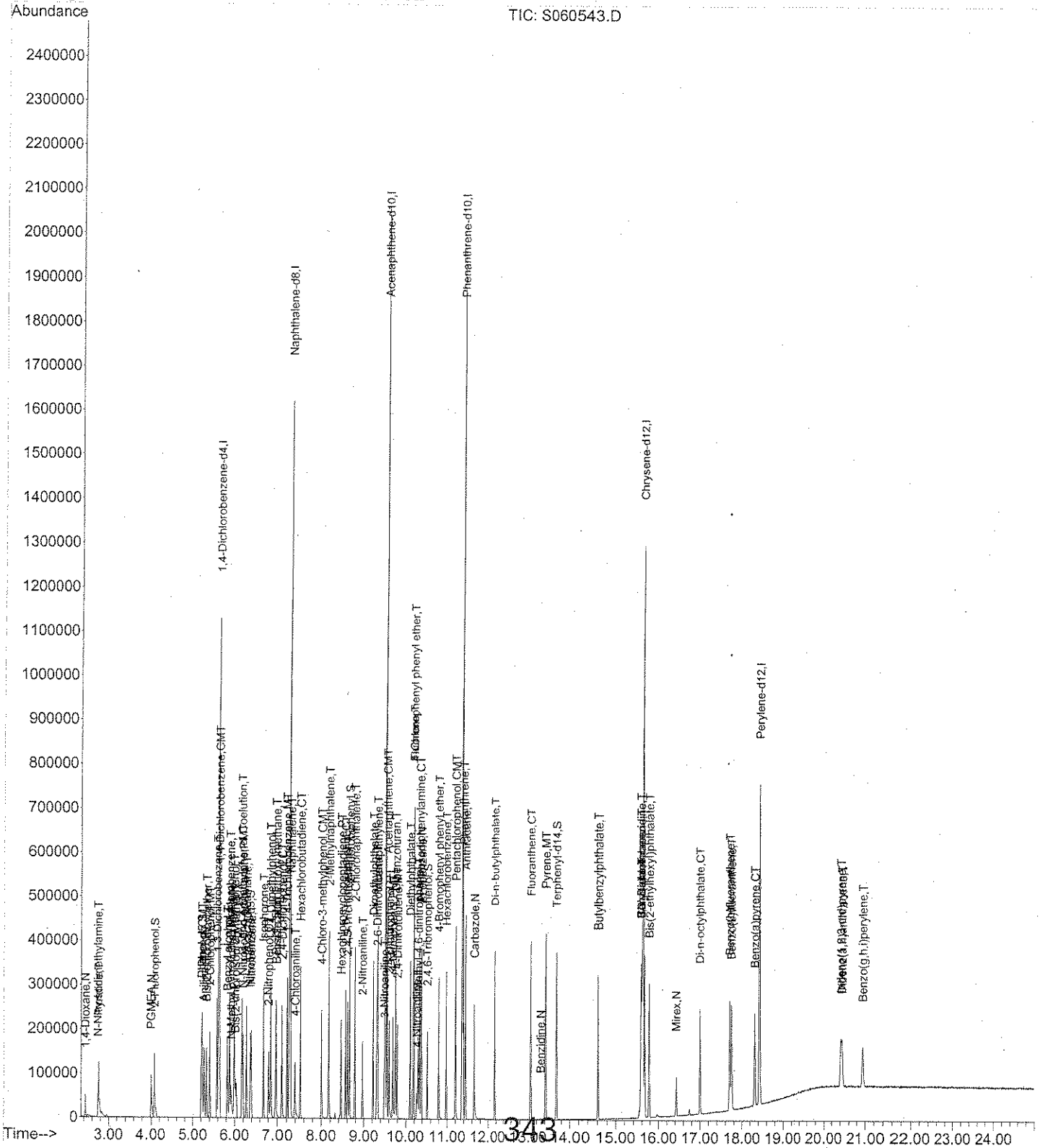
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.00	107	54800	9.11	mg/L		95
36)	2-Methylnaphthalene	8.17	142	133285	9.39	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	41277	9.17	mg/L		97
39)	2,4,6-Trichlorophenol	8.56	196	41764	9.20	mg/L		99
40)	2,4,5-Trichlorophenol	8.61	196	45115	8.98	mg/L		97
42)	2-Chloronaphthalene	8.78	162	122899	9.32	mg/L		99
43)	2-Nitroaniline	8.96	65	34107	8.54	mg/L		98
44)	Dimethylphthalate	9.22	163	137309	9.37	mg/L		94
45)	Acenaphthylene	9.32	152	194801	9.55	mg/L		99
46)	2,6-Dinitrotoluene	9.31	165	32455	8.77	mg/L	#	70
47)	3-Nitroaniline	9.49	138	23189	8.39	mg/L	#	71
48)	Acenaphthene	9.55	154	112828	9.43	mg/L		99
49)	2,4-Dinitrophenol	9.60	184	33562	7.39	mg/L		92
50)	Dibenzofuran	9.75	168	173078	9.40	mg/L		94
51)	4-Nitrophenol	9.69	109	28945	7.56	mg/L	#	64
52)	2,4-Dinitrotoluene	9.79	165	39513	8.97	mg/L		86
53)	Fluorene	10.18	166	138413	9.56	mg/L		97
54)	Diethylphthalate	10.10	149	137869	9.49	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.18	204	70037	9.35	mg/L		98
56)	4-Nitroaniline	10.27	138	23085	9.02	mg/L	#	74
58)	2-Methyl-4,6-dinitrophenol	10.30	198	23626	7.83	mg/L	#	84
59)	N-Nitrosodiphenylamine	10.33	169	94343	9.00	mg/L		95
60)	Azobenzene	10.38	77	167925	9.42	mg/L		92
62)	4-Bromophenyl phenyl ether	10.79	248	43578	9.09	mg/L		99
63)	Hexachlorobenzene	10.97	284	48216	9.42	mg/L		99
64)	Pentachlorophenol	11.20	266	57025	7.90	mg/L		98
65)	Phenanthrene	11.38	178	193303	9.44	mg/L		99
66)	Anthracene	11.44	178	193360	9.49	mg/L		100
67)	Carbazole	11.65	167	150087	9.63	mg/L		100
68)	Di-n-butylphthalate	12.16	149	229322	8.98	mg/L	#	98
69)	Fluoranthene	13.06	202	220446	9.22	mg/L	#	94
71)	Benzidine	13.29	184	769	2.18	mg/L	#	66
72)	Pyrene	13.42	202	224604	8.35	mg/L		100
74)	Butylbenzylphthalate	14.61	149	96799	8.15	mg/L		92
75)	Benz(a)anthracene	15.58	228	201484	9.07	mg/L		99
76)	3,3'-Dichlorobenzidine	15.57	252	25905	5.48	mg/L		96
77)	Chrysene	15.58	228	201484	9.07	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	15.78	149	134675	8.66	mg/L		100
79)	Mirex	16.42	272	18195	8.37	mg/L		95
81)	Di-n-octylphthalate	17.00	149	180467	6.64	mg/L		100
82)	Benzo(b)fluoranthene	17.70	252	152954	8.35	mg/L	#	93
83)	Benzo(k)fluoranthene	17.75	252	155020	9.05	mg/L	#	94
84)	Benzo(a)pyrene	18.31	252	127823	8.93	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.41	276	100601	8.61	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.45	278	75973	8.59	mg/L	#	86
87)	Benzo(g,h,i)perylene	20.95	276	79023	8.66	mg/L	#	77

(#) = qualifier out of range (m) = manual integration
S060543.D BA060422.M Sun Apr 23 09:36:20 2006 Page 8

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060543.D Vial: 7
Acq On : 22 Apr 2006 6:51 pm Operator: SC
Sample : SSTD010 Inst : MSS
Misc : SSTD010;;;;;;;23-MS-43-12 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:36 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:19:36 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E. 4/23/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	192610	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	741110	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	413968	40.00	mg/L	0.00
57) Phenanthrene-d10	11.36	188	696265	40.00	mg/L	0.00
70) Chrysene-d12	15.62	240	611504	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	253657	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.08	112	149242	23.76	mg/L	0.00
Spiked Amount 50.000			Recovery =	47.52%		
7) Phenol-d5	5.21	99	188579	23.73	mg/L	-0.01
Spiked Amount 50.000			Recovery =	47.46%		
23) Nitrobenzene-d5	6.37	82	175441	24.55	mg/L	0.00
Spiked Amount 50.000			Recovery =	49.10%		
41) 2-Fluorobiphenyl	8.66	172	325604	25.08	mg/L	0.00
Spiked Amount 50.000			Recovery =	50.16%		
61) 2,4,6-Tribromophenol	10.51	330	54801	23.77	mg/L	0.00
Spiked Amount 50.000			Recovery =	47.54%		
73) Terphenyl-d14	13.69	244	342441	22.63	mg/L	0.00
Spiked Amount 50.000			Recovery =	45.26%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	67704m	28.57	mg/L	
3) N-Nitrosodimethylamine	2.74	42	64594m	27.66	mg/L	
4) Pyridine	2.75	79	174940m	29.55	mg/L	
5) PGMEA	3.99	43	94472	23.44	mg/L #	36
8) Aniline	5.26	93	185322	23.98	mg/L	98
9) Phenol	5.23	94	203905	23.93	mg/L #	81
10) Bis(2-chloroethyl)ether	5.32	93	160653	23.96	mg/L #	82
11) 2-Chlorophenol	5.40	128	162966	23.87	mg/L	95
12) 1,3-Dichlorobenzene	5.57	146	190212	23.96	mg/L	99
13) 1,4-Dichlorobenzene	5.64	146	193081	23.99	mg/L	99
14) Benzyl alcohol	5.82	108	96886	24.63	mg/L #	79
15) 1,2-Dichlorobenzene	5.88	146	183948	23.96	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.93	99	99072	47.71	mg/L	91
17) 2-Methylphenol	5.99	108	150214	23.90	mg/L	97
18) Bis(2-chloroisopropyl)ethe	6.01	45	36270	22.64	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.20	70	131952	23.90	mg/L #	51
20) Hexachloroethane	6.27	117	77467	23.45	mg/L	85
21) 3- and 4-Methylphenol Coel	6.18	107	192474	24.11	mg/L #	94
24) Nitrobenzene	6.40	77	195334	24.38	mg/L #	74
25) Isophorone	6.68	82	331915	24.29	mg/L	98
26) 2-Nitrophenol	6.80	139	83646	23.95	mg/L #	89
27) 2,4-Dimethylphenol	6.85	122	137678	24.05	mg/L	92
28) Bis(2-chloroethoxy)methane	6.97	93	175454	24.28	mg/L	87
29) 2,4-Dichlorophenol	7.10	162	136267	24.07	mg/L	99
30) 1,2,4-Trichlorobenzene	7.21	180	152544	24.26	mg/L	100
31) Benzoic acid	7.01	122	94222	22.79	mg/L #	84
32) Naphthalene	7.29	128	458545	24.38	mg/L	99
33) 4-Chloroaniline	7.39	127	122090	22.72	mg/L	98
34) Hexachlorobutadiene	7.52	225	92539	24.22	mg/L	99

344

(#) = qualifier out of range (m) = manual integration
S060544.D BA060422.M Sun Apr 23 09:23:58 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:19:36 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

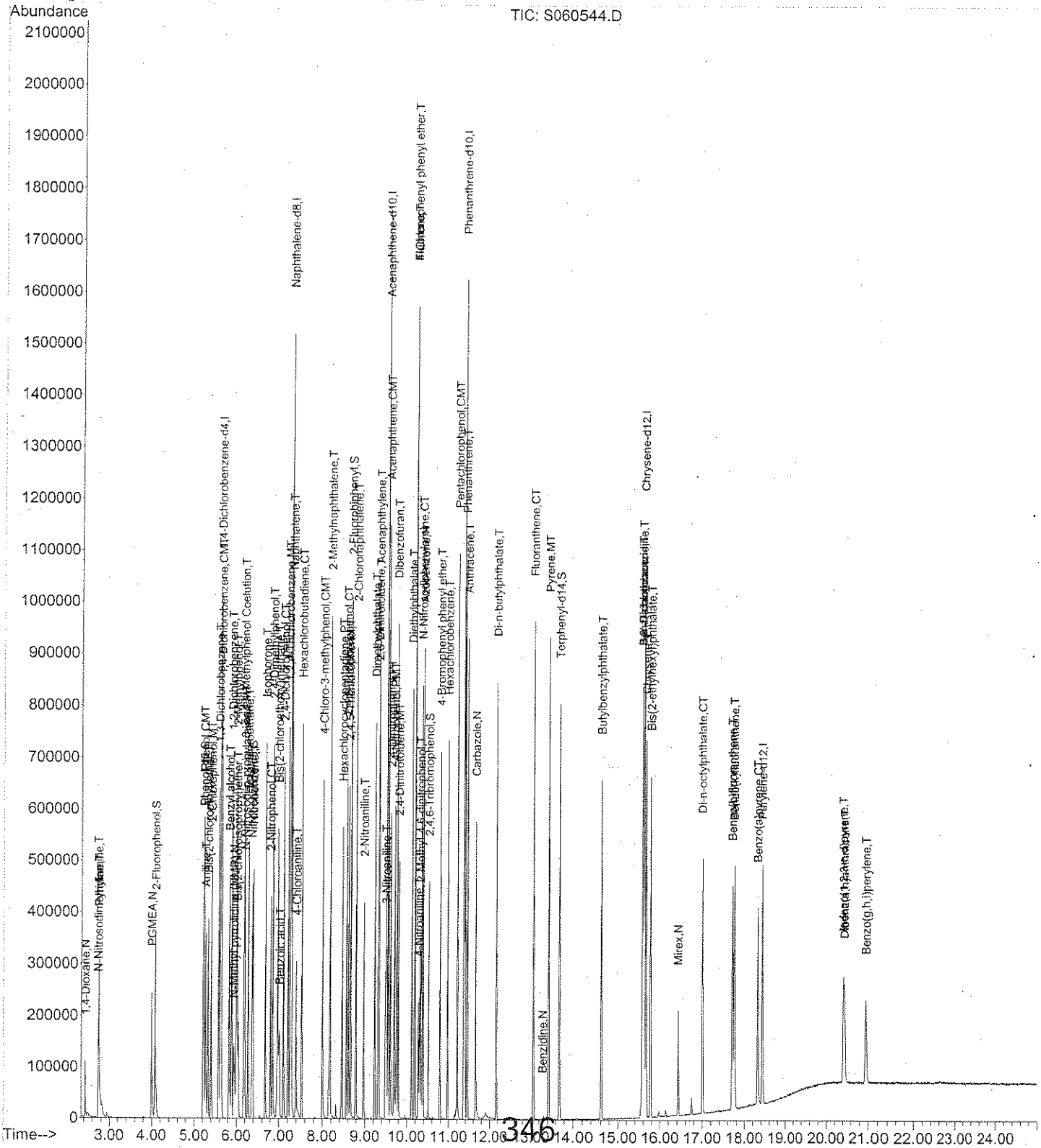
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.00	107	132372	24.47	mg/L		95
36)	2-Methylnaphthalene	8.17	142	304441	23.86	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	98054	24.73	mg/L		99
39)	2,4,6-Trichlorophenol	8.56	196	96957	24.24	mg/L		97
40)	2,4,5-Trichlorophenol	8.61	196	103114	23.31	mg/L		95
42)	2-Chloronaphthalene	8.79	162	284065	24.47	mg/L		99
43)	2-Nitroaniline	8.96	65	82917	23.57	mg/L		96
44)	Dimethylphthalate	9.23	163	311591	24.15	mg/L		94
45)	Acenaphthylene	9.33	152	440619	24.53	mg/L		100
46)	2,6-Dinitrotoluene	9.31	165	77722	23.84	mg/L	#	72
47)	3-Nitroaniline	9.49	138	56079	23.03	mg/L		83
48)	Acenaphthene	9.56	154	254548	24.17	mg/L		99
49)	2,4-Dinitrophenol	9.61	184	91166	22.80	mg/L	#	90
50)	Dibenzofuran	9.76	168	395310	24.37	mg/L		95
51)	4-Nitrophenol	9.70	109	77865	23.10	mg/L	#	61
52)	2,4-Dinitrotoluene	9.80	165	93980	24.22	mg/L		88
53)	Fluorene	10.19	166	313355	24.58	mg/L		97
54)	Diethylphthalate	10.11	149	311326	24.34	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.18	204	159546	24.20	mg/L		99
56)	4-Nitroaniline	10.27	138	56629	25.13	mg/L	#	82
58)	2-Methyl-4,6-dinitrophenol	10.31	198	60145	23.20	mg/L	#	85
59)	N-Nitrosodiphenylamine	10.34	169	215143	23.87	mg/L		97
60)	Azobenzene	10.38	77	376027	24.53	mg/L		92
62)	4-Bromophenyl phenyl ether	10.79	248	99606	24.16	mg/L		99
63)	Hexachlorobenzene	10.98	284	106613	24.23	mg/L		99
64)	Pentachlorophenol	11.20	266	140475	22.64	mg/L		100
65)	Phenanthrene	11.39	178	426737	24.25	mg/L		99
66)	Anthracene	11.45	178	419139	23.94	mg/L		100
67)	Carbazole	11.66	167	308636	23.04	mg/L		99
68)	Di-n-butylphthalate	12.17	149	518089	23.61	mg/L	#	98
69)	Fluoranthene	13.06	202	495024	24.09	mg/L	#	93
71)	Benzidine	13.28	184	2708	9.51	mg/L	#	70
72)	Pyrene	13.42	202	490110	22.59	mg/L		99
74)	Butylbenzylphthalate	14.61	149	218545	22.81	mg/L		94
75)	Benz(a)anthracene	15.58	228	425983	23.77	mg/L		99
76)	3,3'-Dichlorobenzidine	15.58	252	85501	22.43	mg/L		99
77)	Chrysene	15.67	228	394616m	22.02	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.78	149	290208	23.13	mg/L		99
79)	Mirex	16.43	272	40153	22.89	mg/L		97
81)	Di-n-octylphthalate	17.01	149	396851	22.25	mg/L		100
82)	Benzo(b)fluoranthene	17.71	252	301887	25.12	mg/L	#	94
83)	Benzo(k)fluoranthene	17.76	252	291985	25.98	mg/L	#	94
84)	Benzo(a)pyrene	18.32	252	241618	25.73	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.42	276	182470	23.80	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.46	278	141250	24.35	mg/L	#	87
87)	Benzo(g,h,i)perylene	20.96	276	139194	23.26	mg/L	#	78

(#) = qualifier out of range (m) = manual integration
S060544.D BA060422.M Sun Apr 23 09:23:58 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:23 2006 Quant Results File: BA060422.RES

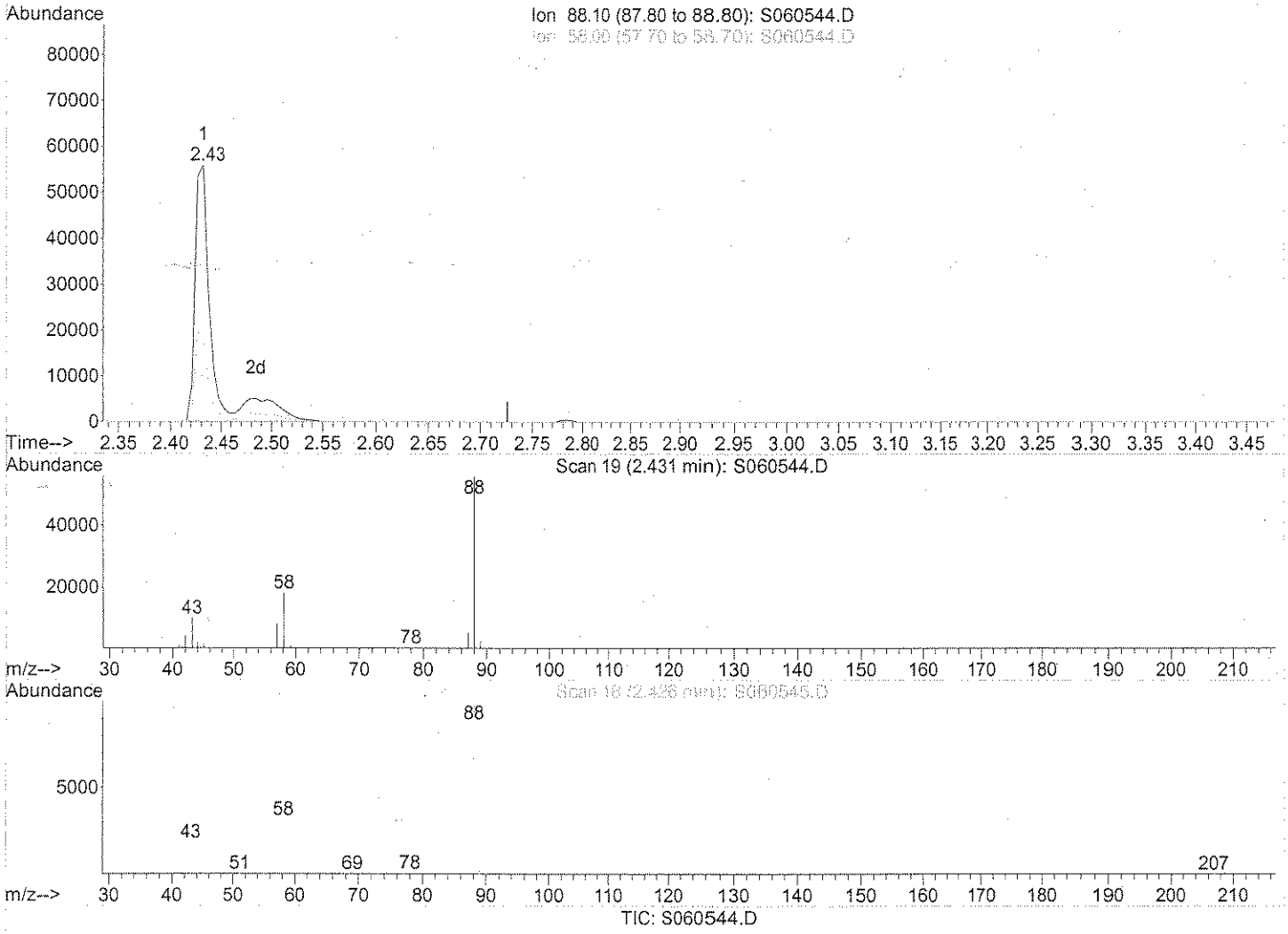
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:19 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(2) 1,4-Dioxane (N)

2.43min 28.57mg/L m

response 67704

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	27.26#
0.00	0.00	0.00
0.00	0.00	0.00

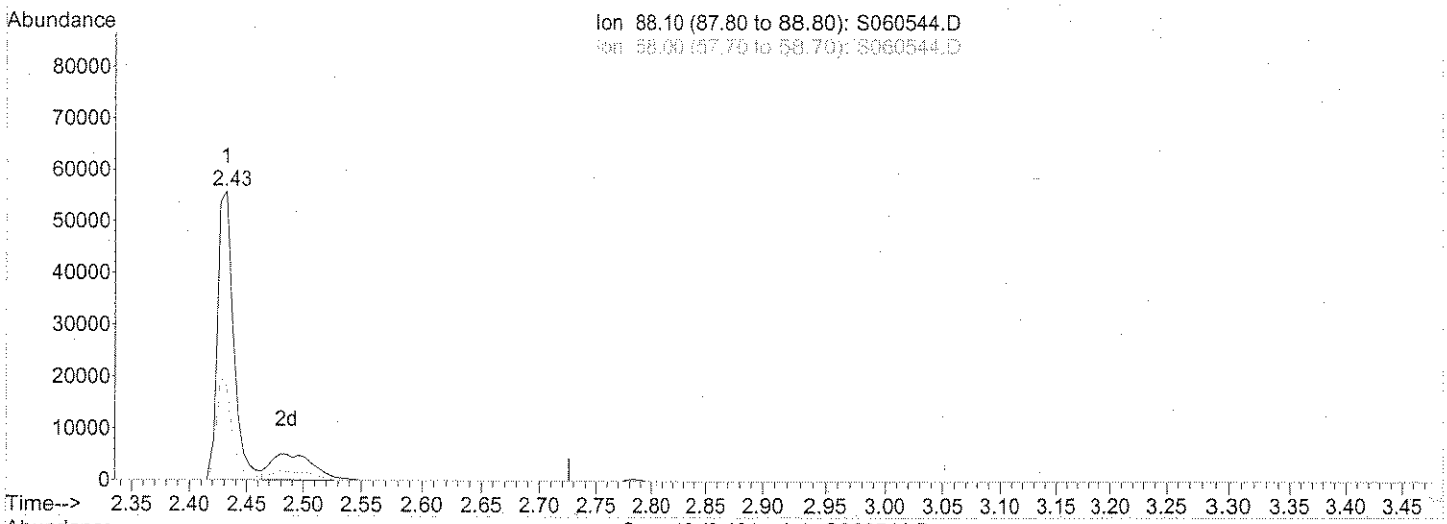
Spirit Blk
4/23/06

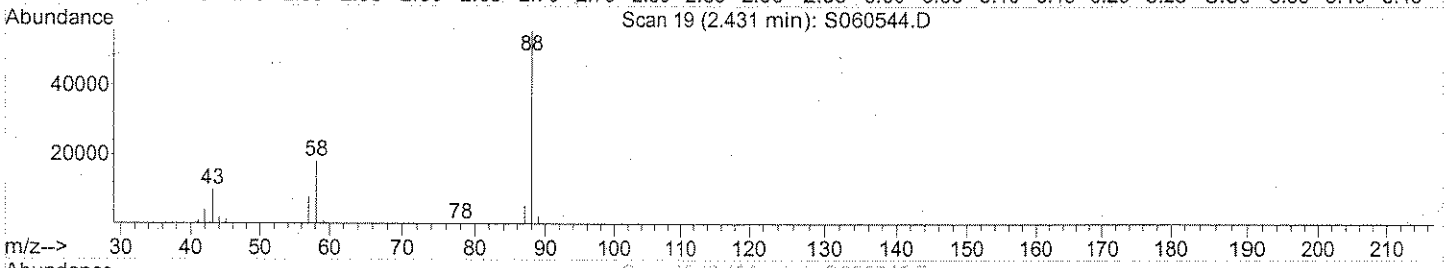
4/26/06

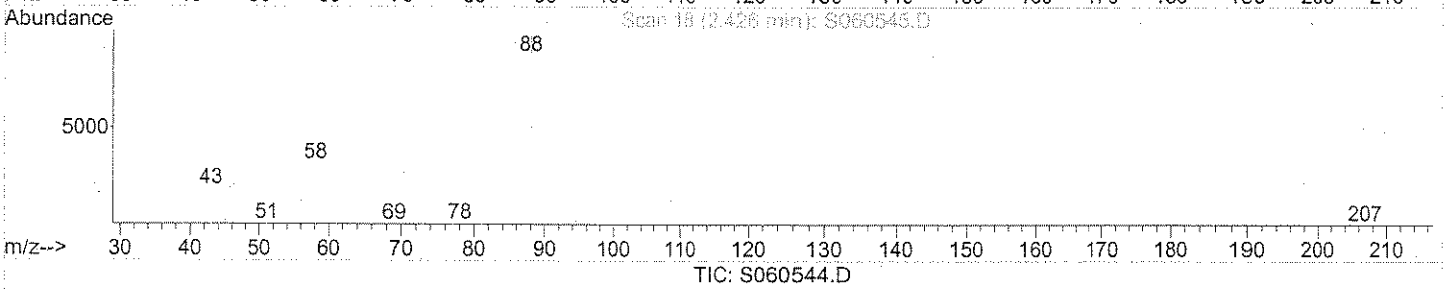
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:19 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







TIC: S060544.D

(2) 1,4-Dioxane (N)

2.43min 22.99mg/L

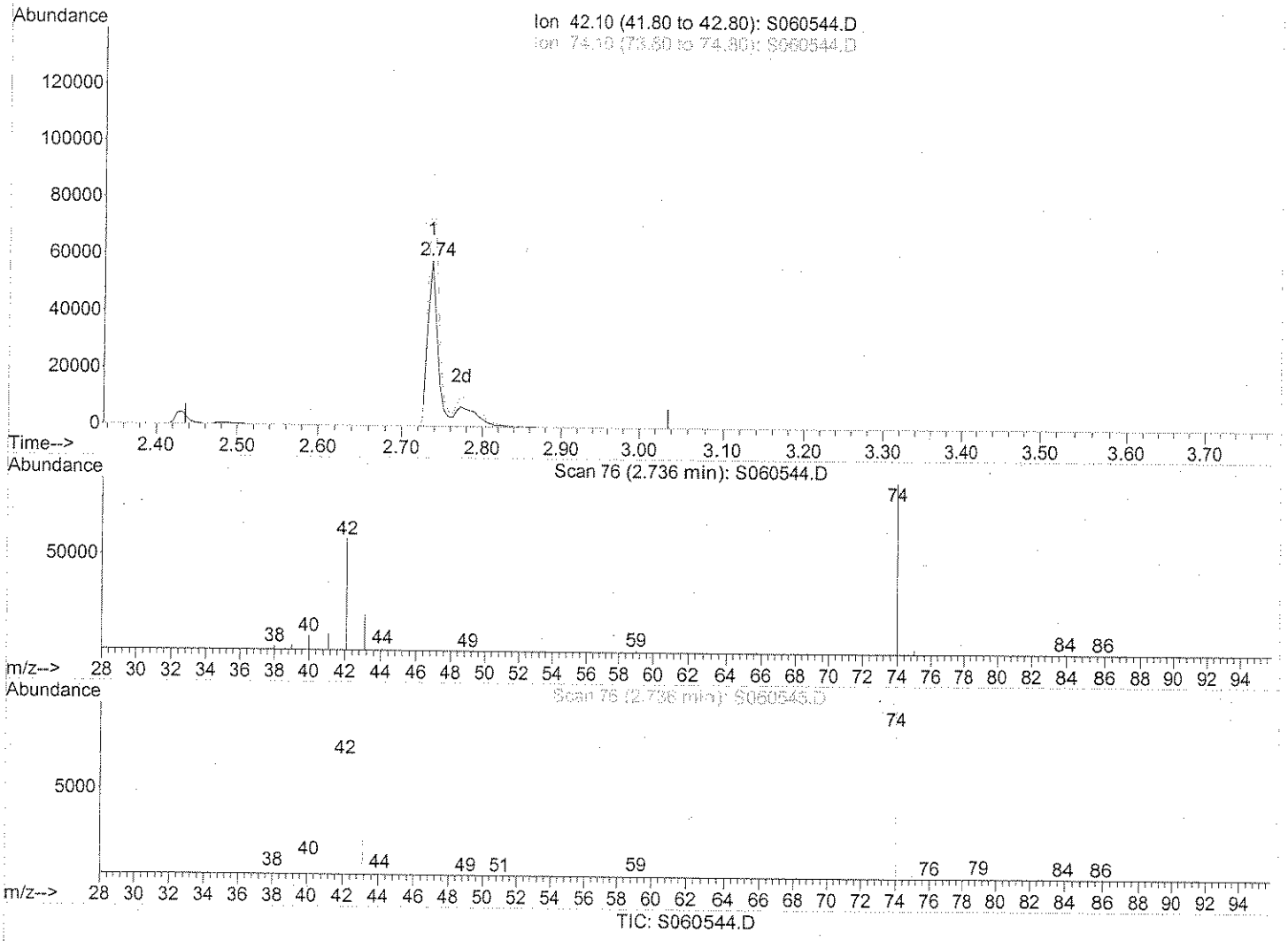
response 54472

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	33.88#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:20 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.74min 27.66mg/L m

response 64594

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	122.12
0.00	0.00	0.00
0.00	0.00	0.00

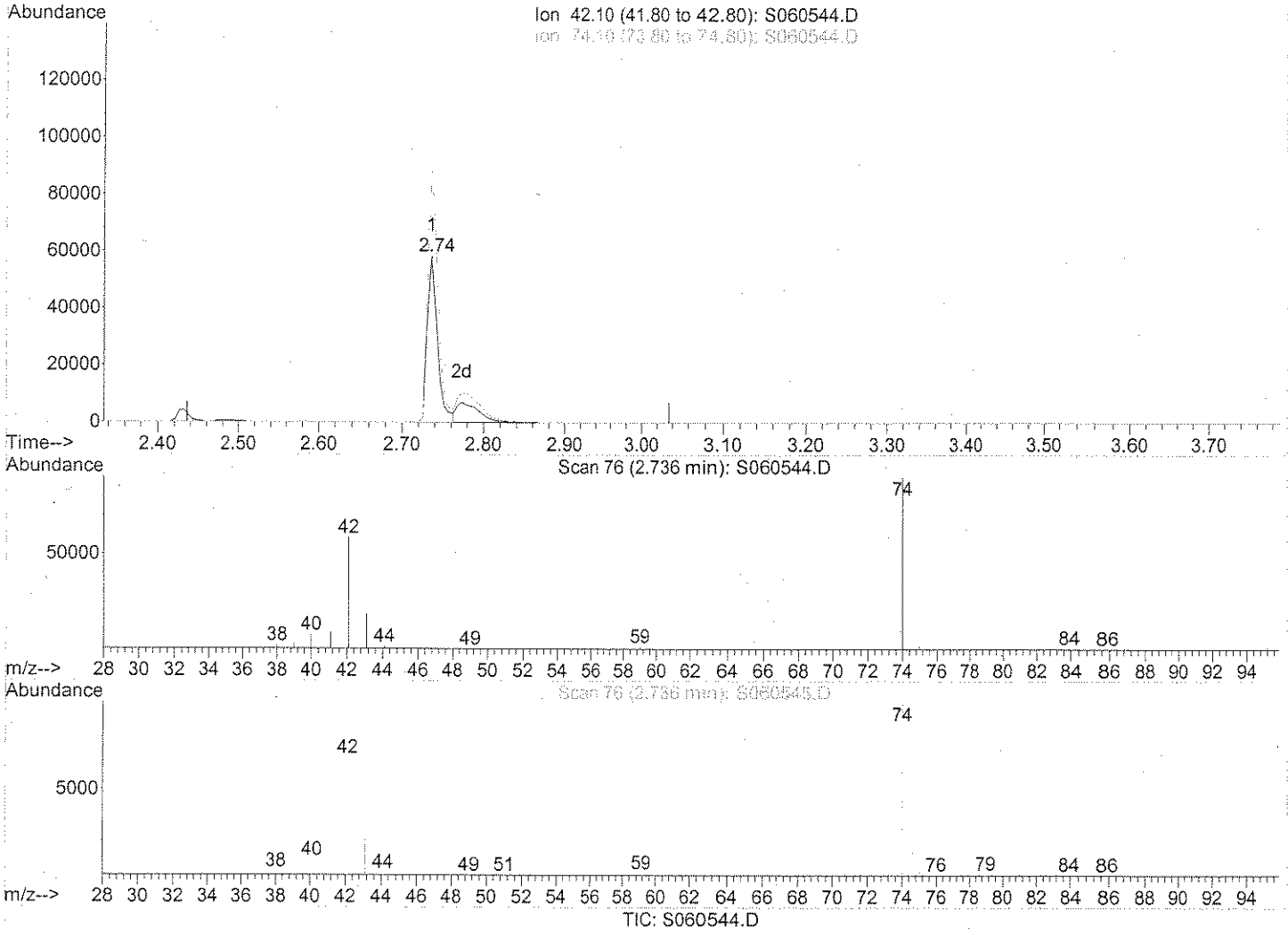
Spike Prep 4/23/06

DA 4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:19 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060544.D

(3) N-Nitrosodimethylamine (T)

2.74min 21.97mg/L

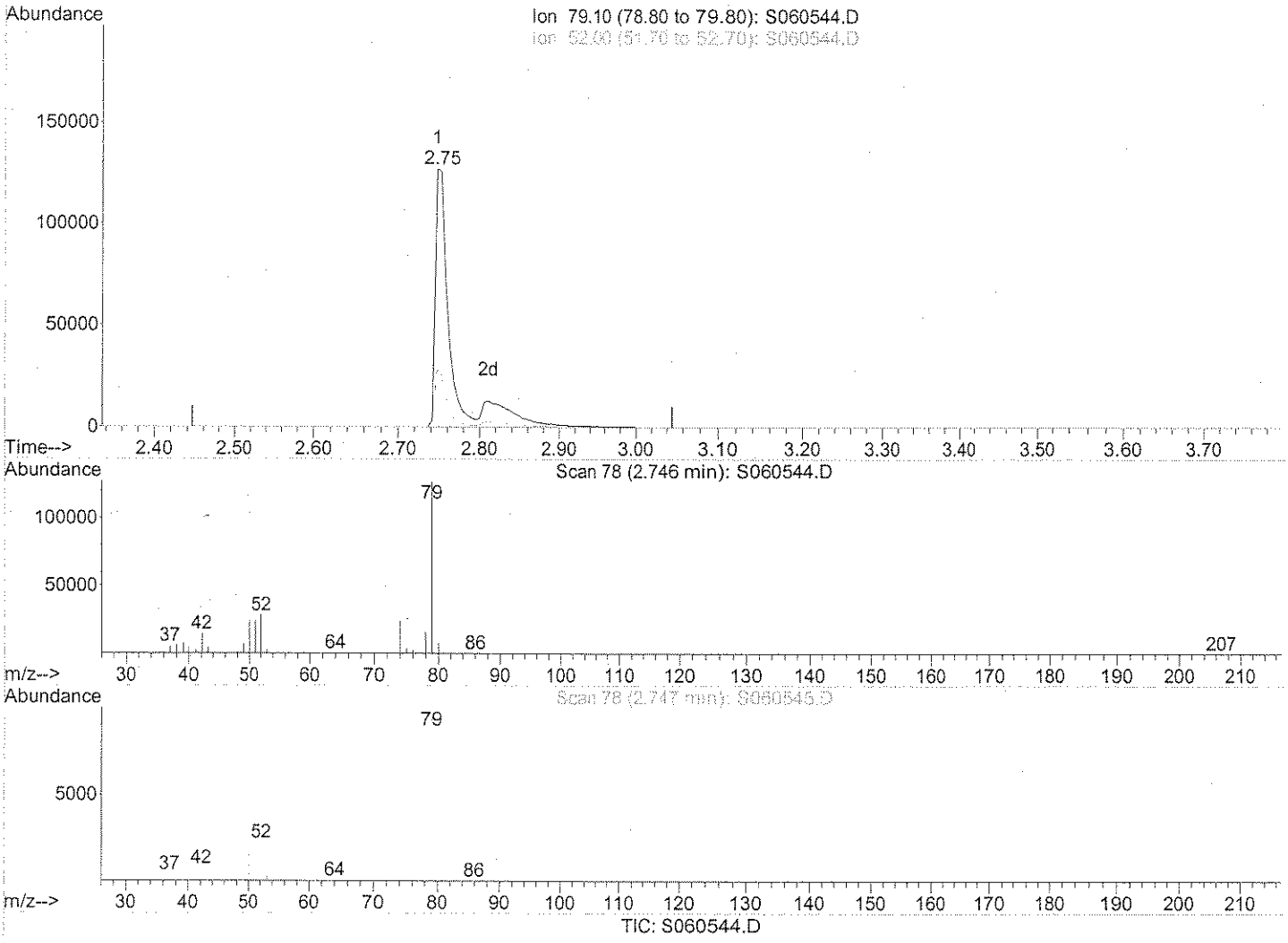
response 51320

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	153.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:20 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(4) Pyridine (T)

2.75min 29.55mg/L m

response 174940

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	16.40#
0.00	0.00	0.00
0.00	0.00	0.00

Spirit prep 4/23/06

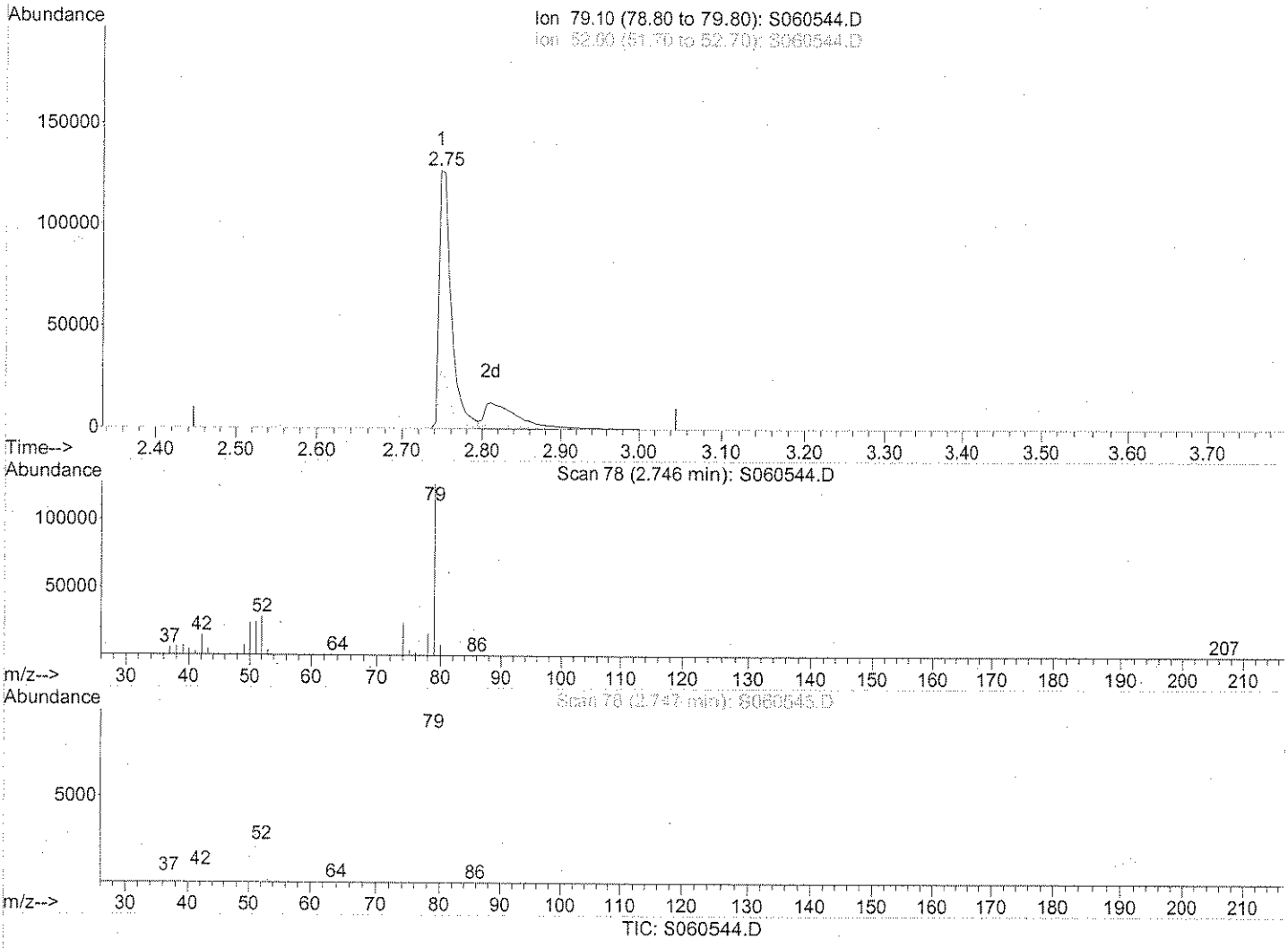
pDH 4/26/06

351

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS,-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:20 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(4) Pyridine (T)

2.75min 23.07mg/L

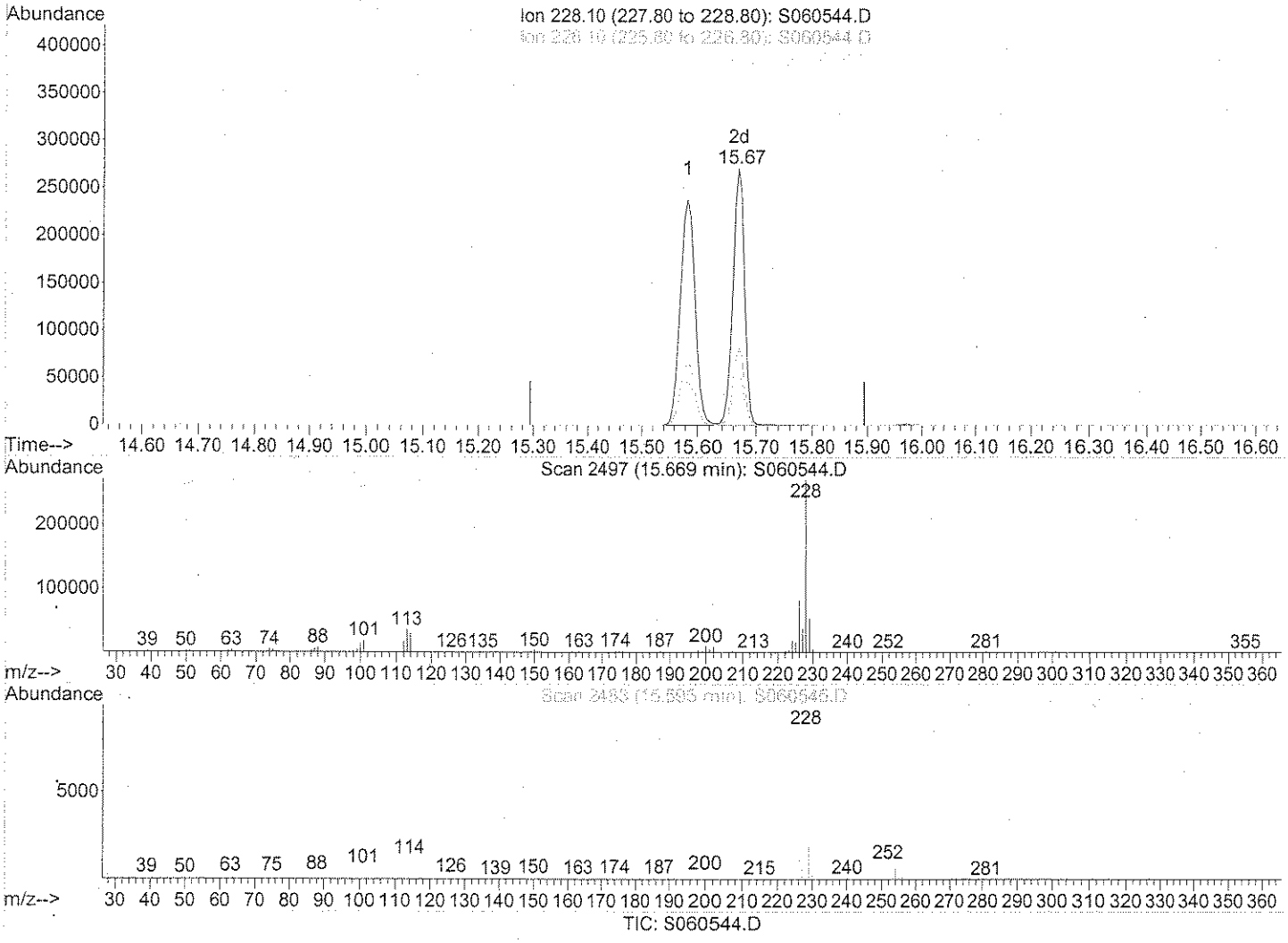
response 136577

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	21.01#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:23 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.67min 22.02mg/L m

response 394616

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	29.62
229.10	19.40	20.94
0.00	0.00	0.00

Wrong Peak C. 4/27/06

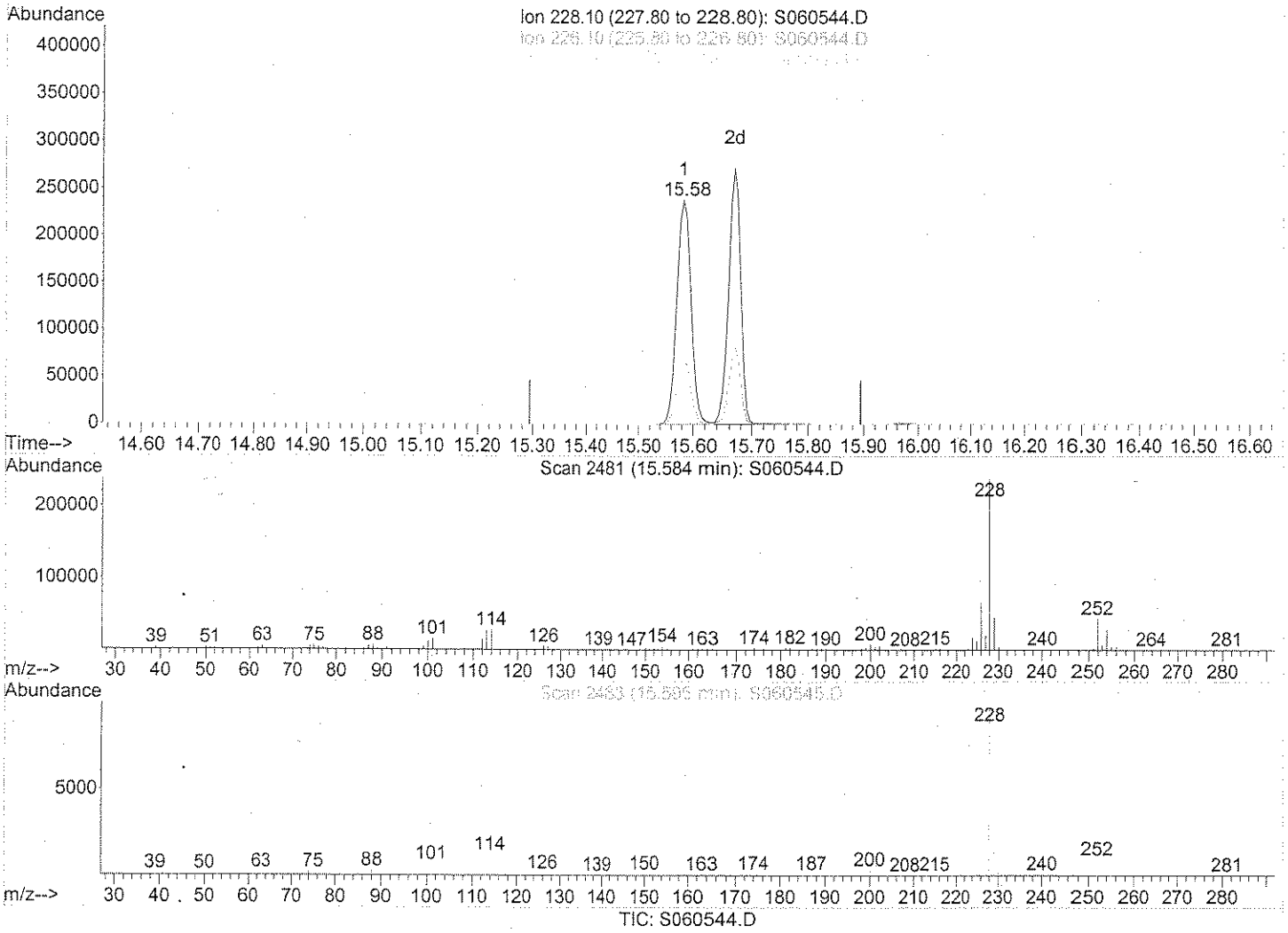
DA 4/26/06

353

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:20 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.58min 23.77mg/L

response 425983

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.44
229.10	19.40	19.40
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:19:36 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	192610	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	741110	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	413968	40.00	mg/L	0.00
57) Phenanthrene-d10	11.36	188	696265	40.00	mg/L	0.00
70) Chrysene-d12	15.62	240	611504	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	253657	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.08	112	149242	23.76	mg/L	0.00
Spiked Amount 50.000			Recovery = 47.52%			
7) Phenol-d5	5.21	99	188579	23.73	mg/L	-0.01
Spiked Amount 50.000			Recovery = 47.46%			
23) Nitrobenzene-d5	6.37	82	175441	24.55	mg/L	0.00
Spiked Amount 50.000			Recovery = 49.10%			
41) 2-Fluorobiphenyl	8.66	172	325604	25.08	mg/L	0.00
Spiked Amount 50.000			Recovery = 50.16%			
61) 2,4,6-Tribromophenol	10.51	330	54801	23.77	mg/L	0.00
Spiked Amount 50.000			Recovery = 47.54%			
73) Terphenyl-d14	13.69	244	342441	22.63	mg/L	0.00
Spiked Amount 50.000			Recovery = 45.26%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	54472	22.99	mg/L #	64
3) N-Nitrosodimethylamine	2.74	42	51320	21.97	mg/L #	65
4) Pyridine	2.75	79	136577	23.07	mg/L #	46
5) PGMEA	3.99	43	94472	23.44	mg/L #	36
8) Aniline	5.26	93	185322	23.98	mg/L	98
9) Phenol	5.23	94	203905	23.93	mg/L #	81
10) Bis(2-chloroethyl)ether	5.32	93	160653	23.96	mg/L #	82
11) 2-Chlorophenol	5.40	128	162966	23.87	mg/L	95
12) 1,3-Dichlorobenzene	5.57	146	190212	23.96	mg/L	99
13) 1,4-Dichlorobenzene	5.64	146	193081	23.99	mg/L	99
14) Benzyl alcohol	5.82	108	96886	24.63	mg/L #	79
15) 1,2-Dichlorobenzene	5.88	146	183948	23.96	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.93	99	99072	47.71	mg/L	91
17) 2-Methylphenol	5.99	108	150214	23.90	mg/L	97
18) Bis(2-chloroisopropyl)ethe	6.01	45	36270	22.64	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.20	70	131952	23.90	mg/L #	51
20) Hexachloroethane	6.27	117	77467	23.45	mg/L	85
21) 3- and 4-Methylphenol Coel	6.18	107	192474	24.11	mg/L #	94
24) Nitrobenzene	6.40	77	195334	24.38	mg/L #	74
25) Isophorone	6.68	82	331915	24.29	mg/L	98
26) 2-Nitrophenol	6.80	139	83646	23.95	mg/L #	89
27) 2,4-Dimethylphenol	6.85	122	137678	24.05	mg/L	92
28) Bis(2-chloroethoxy)methane	6.97	93	175454	24.28	mg/L	87
29) 2,4-Dichlorophenol	7.10	162	136267	24.07	mg/L	99
30) 1,2,4-Trichlorobenzene	7.21	180	152544	24.26	mg/L	100
31) Benzoic acid	7.01	122	94222	22.79	mg/L #	84
32) Naphthalene	7.29	128	458545	24.38	mg/L	99
33) 4-Chloroaniline	7.39	127	122090	22.72	mg/L	98
34) Hexachlorobutadiene	7.52	225	82539	24.22	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:19:36 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

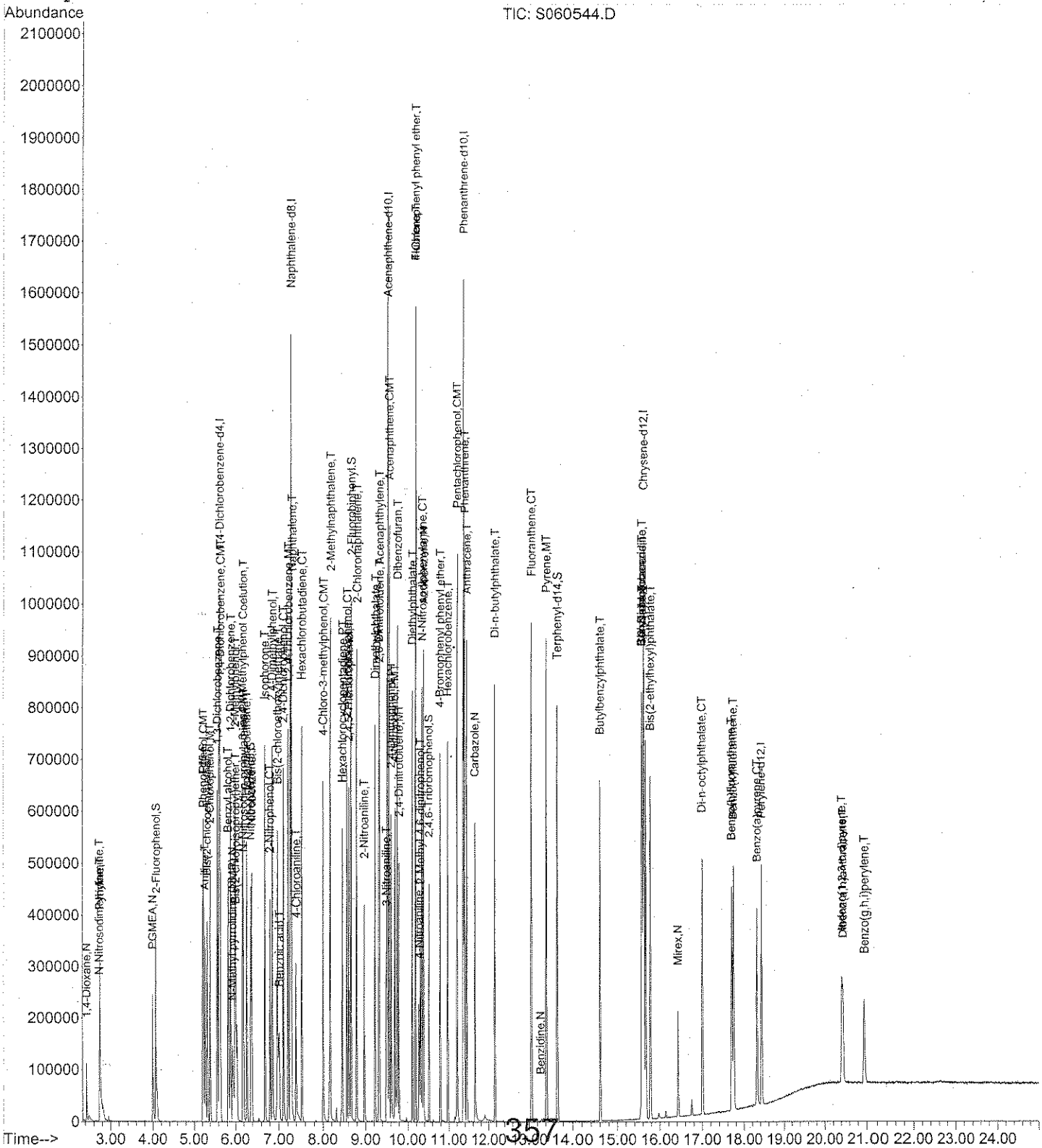
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.00	107	132372	24.47	mg/L		95
36)	2-Methylnaphthalene	8.17	142	304441	23.86	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	98054	24.73	mg/L		99
39)	2,4,6-Trichlorophenol	8.56	196	96957	24.24	mg/L		97
40)	2,4,5-Trichlorophenol	8.61	196	103114	23.31	mg/L		95
42)	2-Chloronaphthalene	8.79	162	284065	24.47	mg/L		99
43)	2-Nitroaniline	8.96	65	82917	23.57	mg/L		96
44)	Dimethylphthalate	9.23	163	311591	24.15	mg/L		94
45)	Acenaphthylene	9.33	152	440619	24.53	mg/L		100
46)	2,6-Dinitrotoluene	9.31	165	77722	23.84	mg/L	#	72
47)	3-Nitroaniline	9.49	138	56079	23.03	mg/L		83
48)	Acenaphthene	9.56	154	254548	24.17	mg/L		99
49)	2,4-Dinitrophenol	9.61	184	91166	22.80	mg/L	#	90
50)	Dibenzofuran	9.76	168	395310	24.37	mg/L		95
51)	4-Nitrophenol	9.70	109	77865	23.10	mg/L	#	61
52)	2,4-Dinitrotoluene	9.80	165	93980	24.22	mg/L		88
53)	Fluorene	10.19	166	313355	24.58	mg/L		97
54)	Diethylphthalate	10.11	149	311326	24.34	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.18	204	159546	24.20	mg/L		99
56)	4-Nitroaniline	10.27	138	56629	25.13	mg/L	#	82
58)	2-Methyl-4,6-dinitrophenol	10.31	198	60145	23.20	mg/L	#	85
59)	N-Nitrosodiphenylamine	10.34	169	215143	23.87	mg/L		97
60)	Azobenzene	10.38	77	376027	24.53	mg/L		92
62)	4-Bromophenyl phenyl ether	10.79	248	99606	24.16	mg/L		99
63)	Hexachlorobenzene	10.98	284	106613	24.23	mg/L		99
64)	Pentachlorophenol	11.20	266	140475	22.64	mg/L		100
65)	Phenanthrene	11.39	178	426737	24.25	mg/L		99
66)	Anthracene	11.45	178	419139	23.94	mg/L		100
67)	Carbazole	11.66	167	308636	23.04	mg/L		99
68)	Di-n-butylphthalate	12.17	149	518089	23.61	mg/L	#	98
69)	Fluoranthene	13.06	202	495024	24.09	mg/L	#	93
71)	Benzidine	13.28	184	2708	9.51	mg/L	#	70
72)	Pyrene	13.42	202	490110	22.59	mg/L		99
74)	Butylbenzylphthalate	14.61	149	218545	22.81	mg/L		94
75)	Benz(a)anthracene	15.58	228	425983	23.77	mg/L		99
76)	3,3'-Dichlorobenzidine	15.58	252	85501	22.43	mg/L		99
77)	Chrysene	15.58	228	425983	23.77	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	15.78	149	290208	23.13	mg/L		99
79)	Mirex	16.43	272	40153	22.89	mg/L		97
81)	Di-n-octylphthalate	17.01	149	396851	22.25	mg/L		100
82)	Benzo(b)fluoranthene	17.71	252	301887	25.12	mg/L	#	94
83)	Benzo(k)fluoranthene	17.76	252	291985	25.98	mg/L	#	94
84)	Benzo(a)pyrene	18.32	252	241618	25.73	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.42	276	182470	23.80	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.46	278	141250	24.35	mg/L	#	87
87)	Benzo(g,h,i)perylene	20.96	276	139194	23.26	mg/L	#	78

(#) = qualifier out of range (m) = manual integration
S060544.D BA060422.M Sun Apr 23 09:19:39 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060544.D Vial: 8
Acq On : 22 Apr 2006 7:25 pm Operator: SC
Sample : SSTD025 Inst : MSS
Misc : SSTD025;;;;;;;23-MS-43-13 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:19 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc ; SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:15:25 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E 4/23/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	162706	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	640753	40.00	mg/L	0.00
37) Acenaphthene-d10	9.53	164	359555	40.00	mg/L	0.00
57) Phenanthrene-d10	11.37	188	591804	40.00	mg/L	0.00
70) Chrysene-d12	15.63	240	487244	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	191488	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.08	112	265249	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery =	100.00%		
7) Phenol-d5	5.22	99	335584	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery =	100.00%		
23) Nitrobenzene-d5	6.37	82	308892	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery =	100.00%		
41) 2-Fluorobiphenyl	8.67	172	563713	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery =	100.00%		
61) 2,4,6-Tribromophenol	10.52	330	97977	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery =	100.00%		
73) Terphenyl-d14	13.69	244	602735	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery =	100.00%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	123149m	61.53	mg/L	
3) N-Nitrosodimethylamine	2.74	42	121849m	61.76	mg/L	
4) Pyridine	2.75	79	316647m	63.32	mg/L	
5) PGMEA	4.00	43	170208	50.00	mg/L #	38
8) Aniline	5.27	93	326350	50.00	mg/L	97
9) Phenol	5.24	94	359855	50.00	mg/L #	80
10) Bis(2-chloroethyl)ether	5.33	93	283164	50.00	mg/L #	82
11) 2-Chlorophenol	5.40	128	288346	50.00	mg/L	95
12) 1,3-Dichlorobenzene	5.58	146	335331	50.00	mg/L	99
13) 1,4-Dichlorobenzene	5.64	146	340009	50.00	mg/L	100
14) Benzyl alcohol	5.83	108	166140	50.00	mg/L #	71
15) 1,2-Dichlorobenzene	5.89	146	324282	50.00	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.96	99	178179m	101.57	mg/L	
17) 2-Methylphenol	6.01	108	265507	50.00	mg/L	96
18) Bis(2-chloroisopropyl)ethe	6.02	45	67652	50.00	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.21	70	233205	50.00	mg/L #	52
20) Hexachloroethane	6.28	117	139526	50.00	mg/L	87
21) 3- and 4-Methylphenol Coel	6.19	107	337250	50.00	mg/L #	93
24) Nitrobenzene	6.40	77	346399	50.00	mg/L #	75
25) Isophorone	6.69	82	590647	50.00	mg/L	98
26) 2-Nitrophenol	6.81	139	150966	50.00	mg/L #	89
27) 2,4-Dimethylphenol	6.86	122	247435	50.00	mg/L	94
28) Bis(2-chloroethoxy)methane	6.98	93	312379	50.00	mg/L	86
29) 2,4-Dichlorophenol	7.11	162	244756	50.00	mg/L	99
30) 1,2,4-Trichlorobenzene	7.21	180	271777	50.00	mg/L	100
31) Benzoic acid	7.06	122	178695	50.00	mg/L #	84
32) Naphthalene	7.30	128	813066	50.00	mg/L	100
33) 4-Chloroaniline	7.40	127	232334	50.00	mg/L	97
34) Hexachlorobutadiene	7.52	225	165152	50.00	mg/L	99

(#) = qualifier out of range (m) = manual integration
S060545.D BA060422.M Sun Apr 23 09:25:46 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:15:25 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

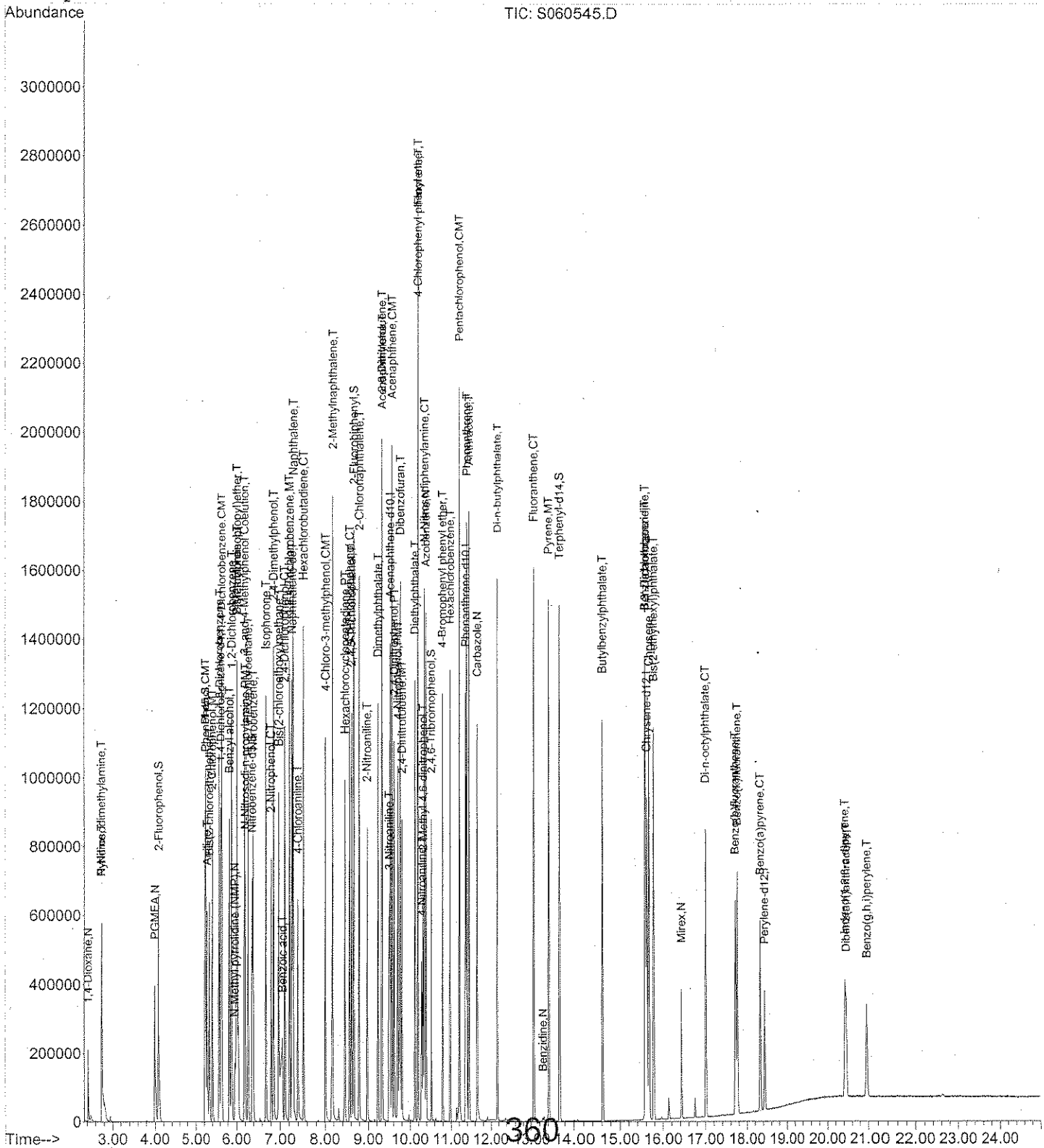
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.01	107	233861	50.00	mg/L		97
36)	2-Methylnaphthalene	8.17	142	551568	50.00	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	172184	50.00	mg/L		99
39)	2,4,6-Trichlorophenol	8.57	196	173677	50.00	mg/L		96
40)	2,4,5-Trichlorophenol	8.62	196	192102	50.00	mg/L		96
42)	2-Chloronaphthalene	8.79	162	504073	50.00	mg/L		99
43)	2-Nitroaniline	8.98	65	152773	50.00	mg/L		98
44)	Dimethylphthalate	9.23	163	560345	50.00	mg/L		93
45)	Acenaphthylene	9.33	152	780080	50.00	mg/L		100
46)	2,6-Dinitrotoluene	9.32	165	141587	50.00	mg/L	#	71
47)	3-Nitroaniline	9.50	138	105742	50.00	mg/L		90
48)	Acenaphthene	9.56	154	457410	50.00	mg/L		98
49)	2,4-Dinitrophenol	9.62	184	173639	50.00	mg/L	#	90
50)	Dibenzofuran	9.77	168	704365	50.00	mg/L		96
51)	4-Nitrophenol	9.71	109	146377	50.00	mg/L	#	61
52)	2,4-Dinitrotoluene	9.81	165	168488	50.00	mg/L		87
53)	Fluorene	10.20	166	553655	50.00	mg/L		97
54)	Diethylphthalate	10.12	149	555585	50.00	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.19	204	286300	50.00	mg/L		99
56)	4-Nitroaniline	10.28	138	97864	50.00	mg/L	#	84
58)	2-Methyl-4,6-dinitrophenol	10.32	198	110173	50.00	mg/L	#	86
59)	N-Nitrosodiphenylamine	10.35	169	383060	50.00	mg/L		97
60)	Azobenzene	10.39	77	651379	50.00	mg/L		93
62)	4-Bromophenyl phenyl ether	10.80	248	175179	50.00	mg/L		99
63)	Hexachlorobenzene	10.98	284	186990	50.00	mg/L		99
64)	Pentachlorophenol	11.21	266	263647	50.00	mg/L		100
65)	Phenanthrene	11.40	178	748000	50.00	mg/L		99
66)	Anthracene	11.45	178	744041	50.00	mg/L		100
67)	Carbazole	11.66	167	569395	50.00	mg/L		100
68)	Di-n-butylphthalate	12.18	149	932605	50.00	mg/L	#	99
69)	Fluoranthene	13.07	202	873247	50.00	mg/L	#	94
71)	Benzidine	13.28	184	11349	50.00	mg/L	#	91
72)	Pyrene	13.43	202	864319	50.00	mg/L		99
74)	Butylbenzylphthalate	14.62	149	381684	50.00	mg/L		93
75)	Benz(a)anthracene	15.59	228	714020	50.00	mg/L		99
76)	3,3'-Dichlorobenzidine	15.58	252	151860	50.00	mg/L		98
77)	Chrysene	15.68	228	653138m	45.74	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.79	149	499817	50.00	mg/L		99
79)	Mirex	16.43	272	69874	50.00	mg/L		98
81)	Di-n-octylphthalate	17.01	149	673204	50.00	mg/L		100
82)	Benzo(b)fluoranthene	17.72	252	453648	50.00	mg/L	#	93
83)	Benzo(k)fluoranthene	17.77	252	424192	50.00	mg/L	#	95
84)	Benzo(a)pyrene	18.33	252	354463	50.00	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.43	276	289360	50.00	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.47	278	218982	50.00	mg/L	#	86
87)	Benzo(g,h,i)perylene	20.97	276	225912	50.00	mg/L	#	78

(#) = qualifier out of range (m) = manual integration
S060545.D BA060422.M Sun Apr 23 09:25:47 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:25 2006 Quant Results File: BA060422.RES

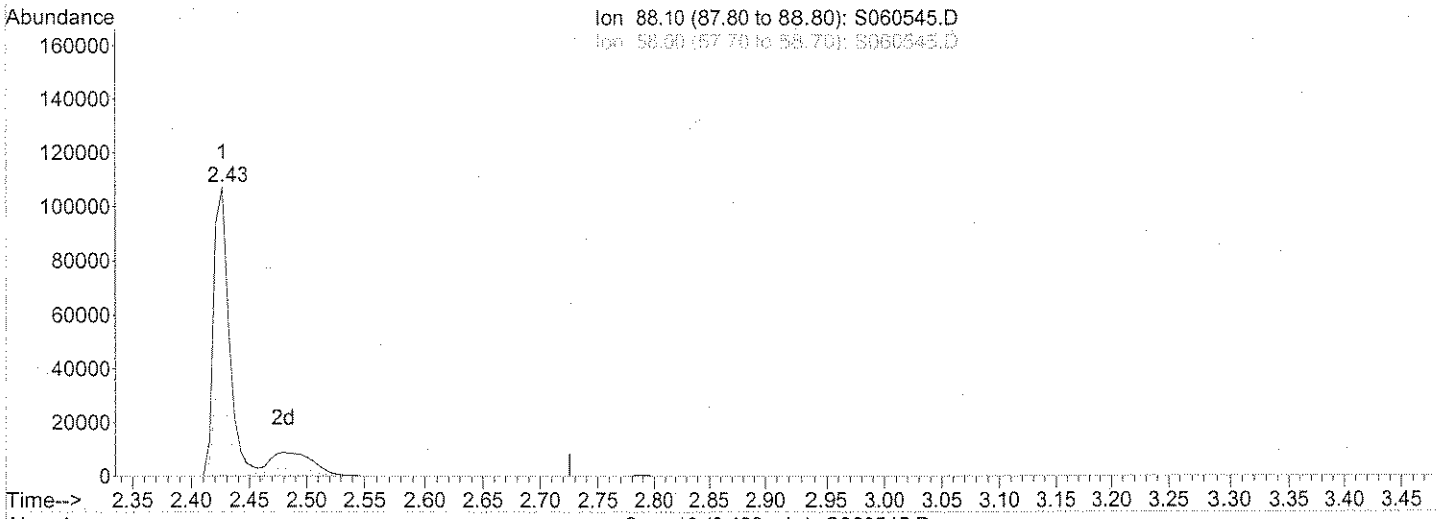
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration

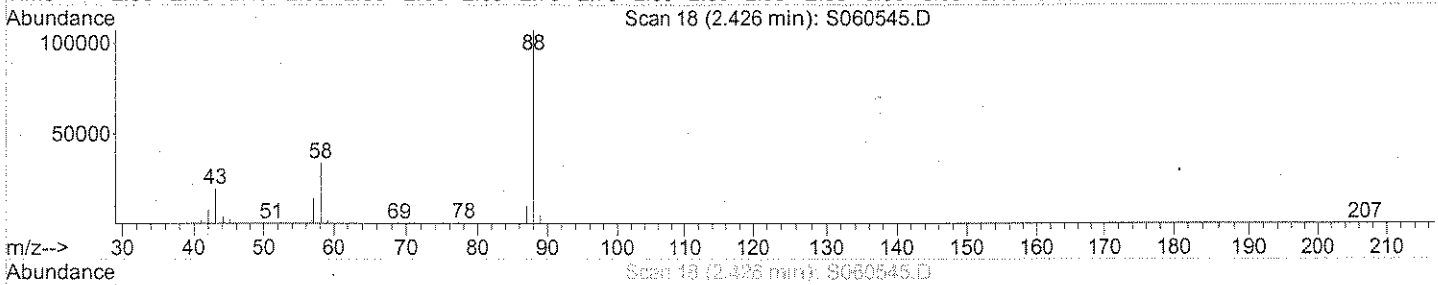


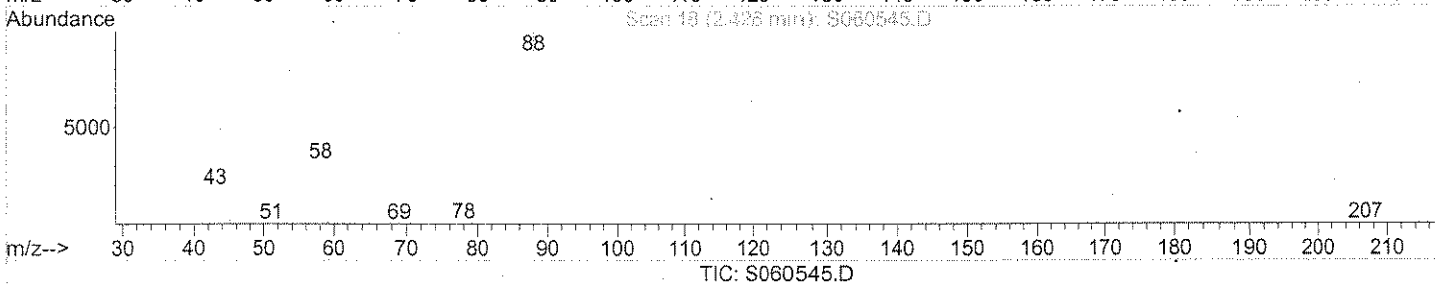
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:15 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







TIC: S060545.D

(2) 1,4-Dioxane (N)

2.43min 61.53mg/L m

response 123149

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	26.49#
0.00	0.00	0.00
0.00	0.00	0.00

Split pair
4/26/06

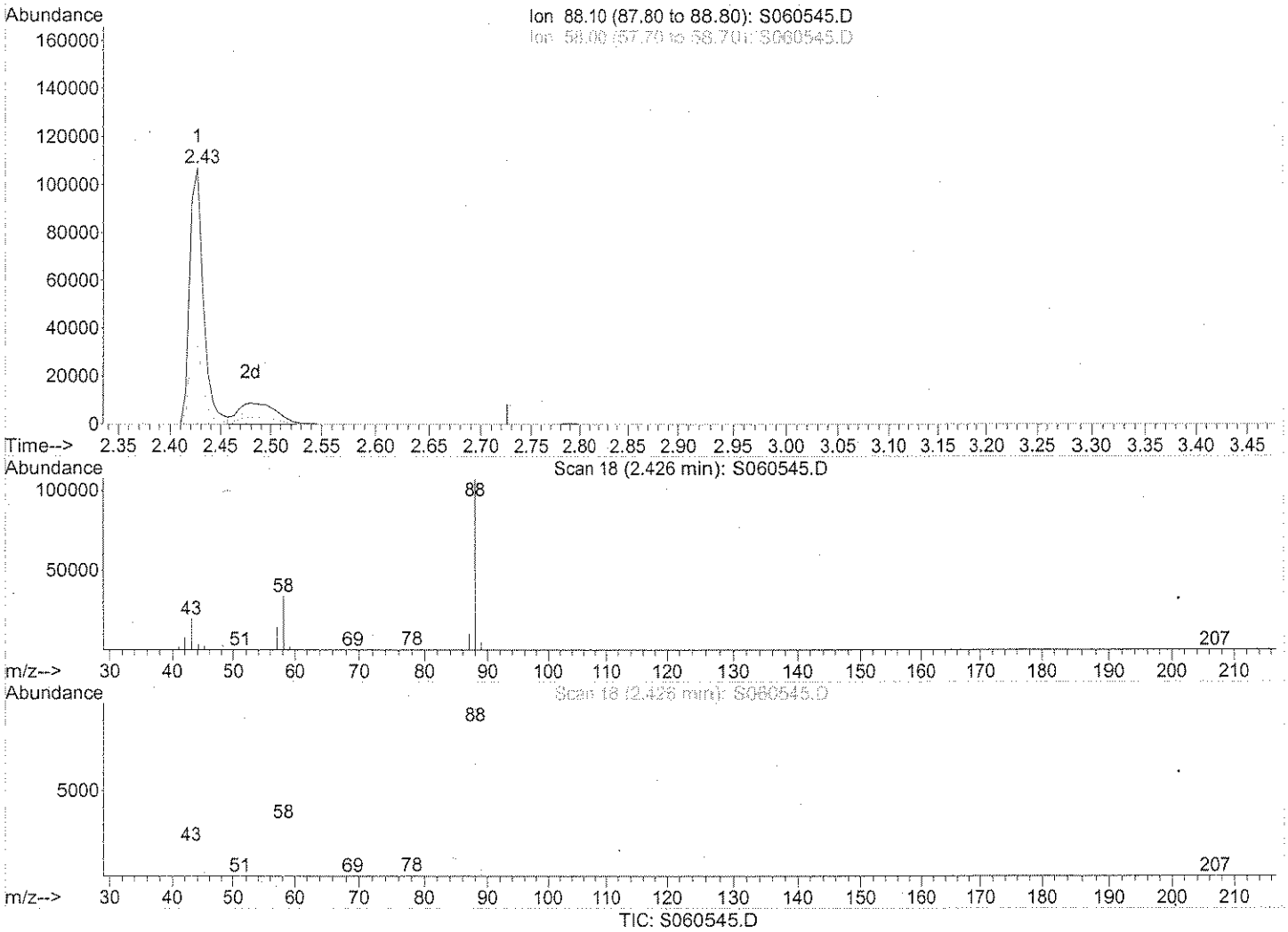
4/26/06

361

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:15 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060545.D

(2) 1,4-Dioxane (N)

2.43min 50.00mg/L

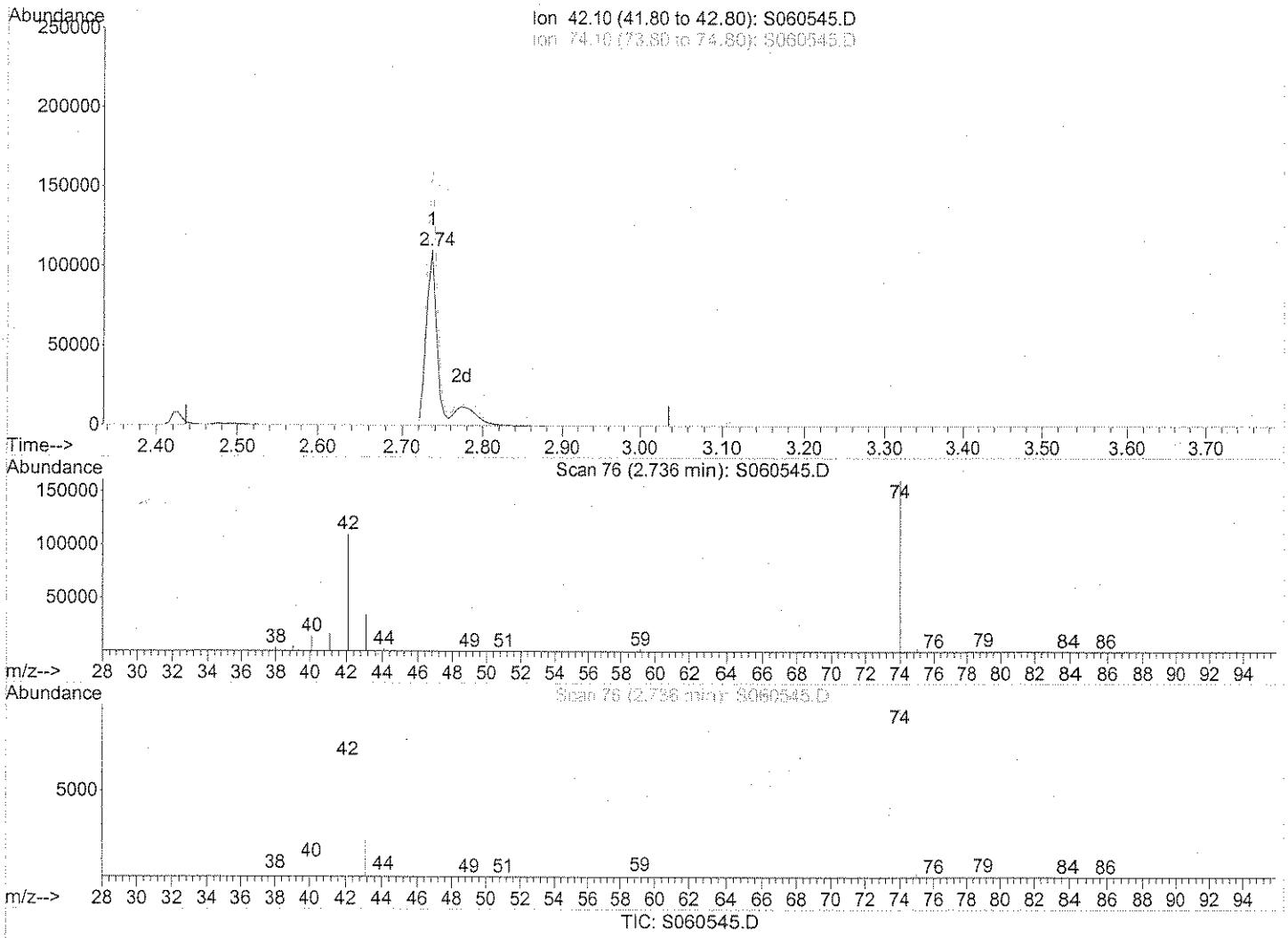
response 100075

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	32.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:16 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060545.D

(3) N-Nitrosodimethylamine (T)

2.74min 61.76mg/L m

response 121849

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	118.96
0.00	0.00	0.00
0.00	0.00	0.00

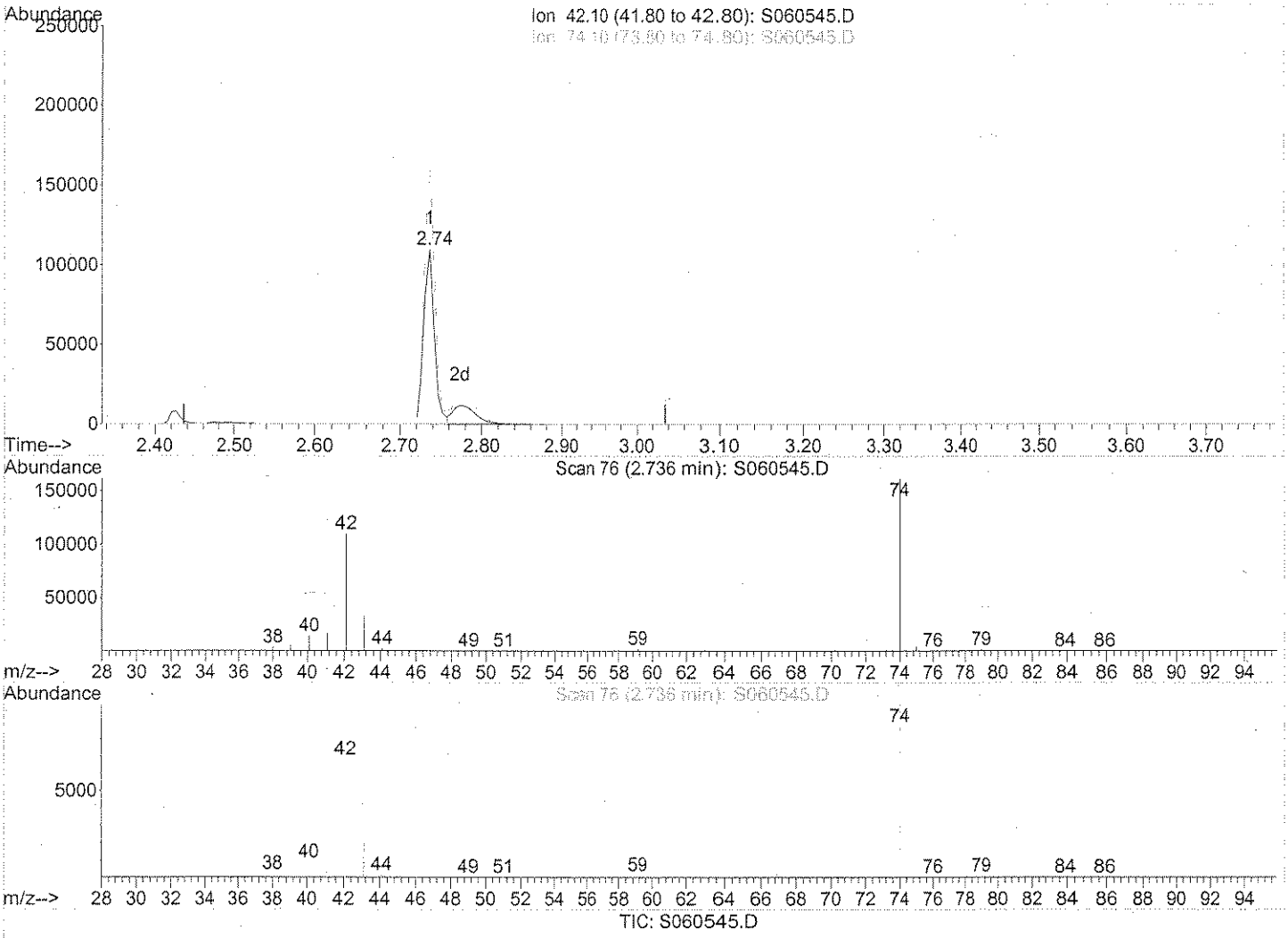
Spike pair
4/23/06

4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:15 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.74min 50.00mg/L

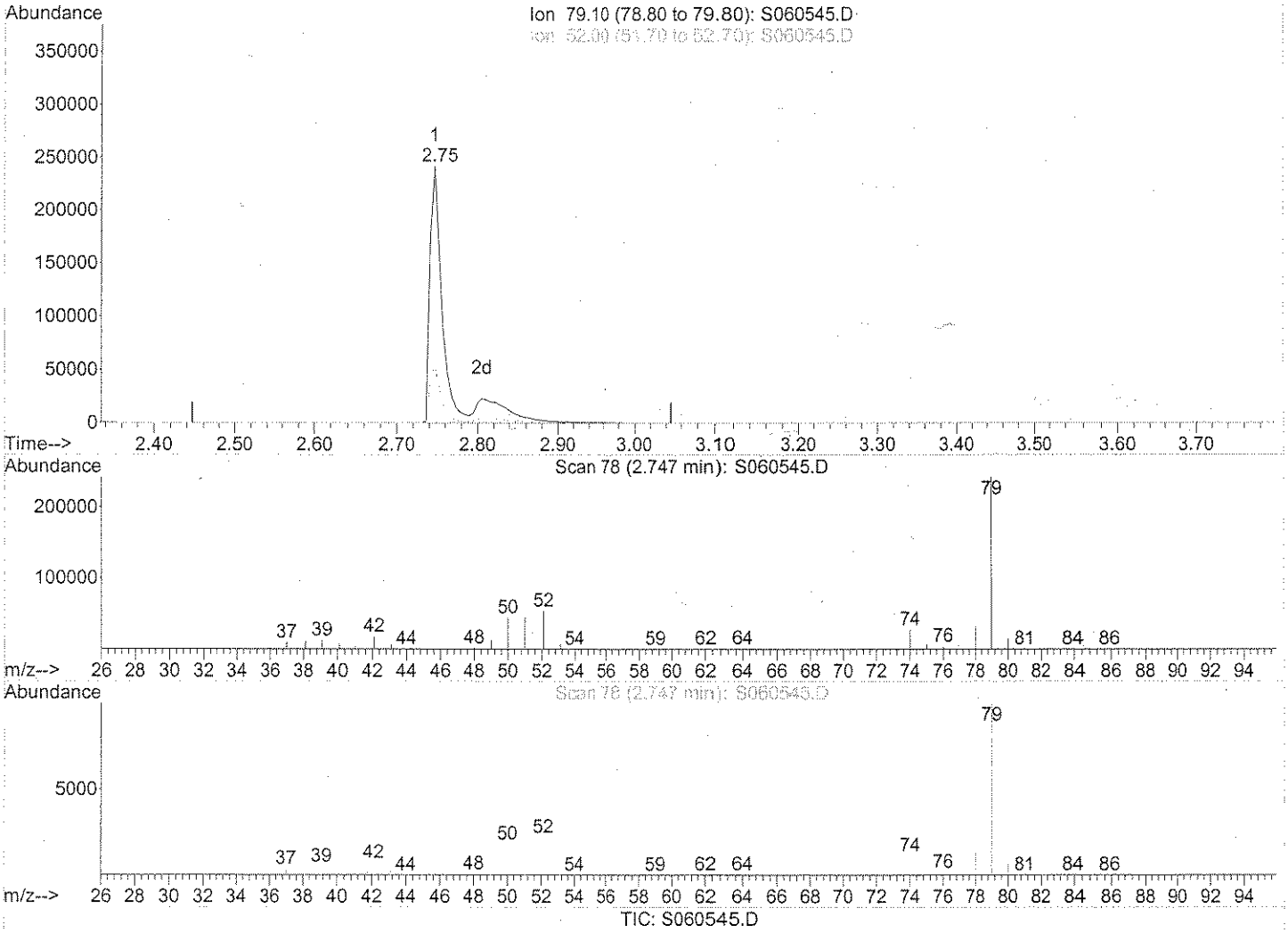
response 98642

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	146.95#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:16 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060545.D

(4) Pyridine (T)

2.75min 63.32mg/L m

response 316647

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	16.97#
0.00	0.00	0.00
0.00	0.00	0.00

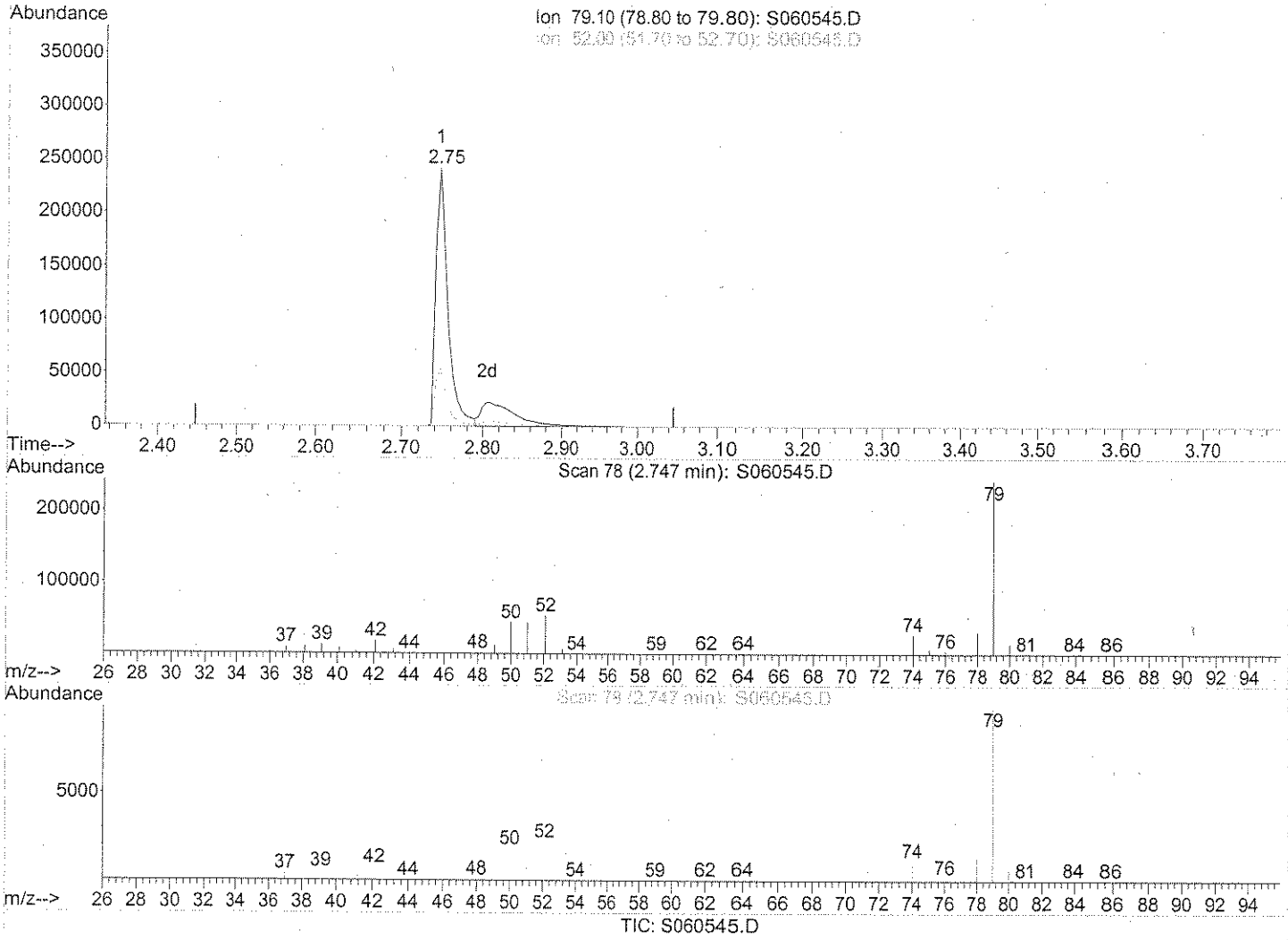
Spike Dup 4/23/06

DA 4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:16 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060545.D

(4) Pyridine (T)

2.75min 50.00mg/L

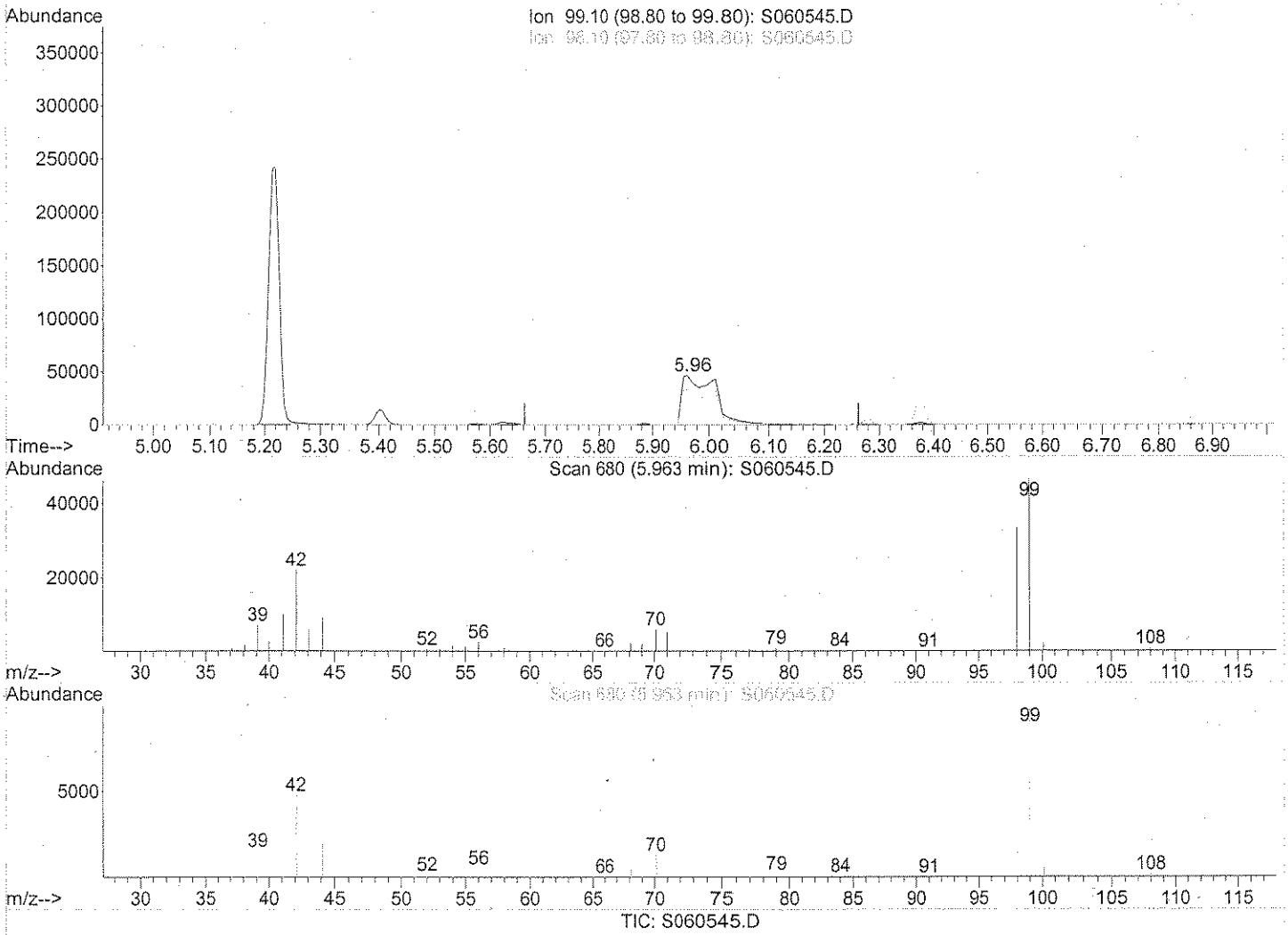
response 250052

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	21.49#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:16 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060545.D

(16) N-Methyl pyrrolidine (NMP) (N)

5.96min 101.57mg/L m

response 178179

Ion	Exp%	Act%
99.10	100	100
98.10	72.00	41.07#
0.00	0.00	0.00
0.00	0.00	0.00

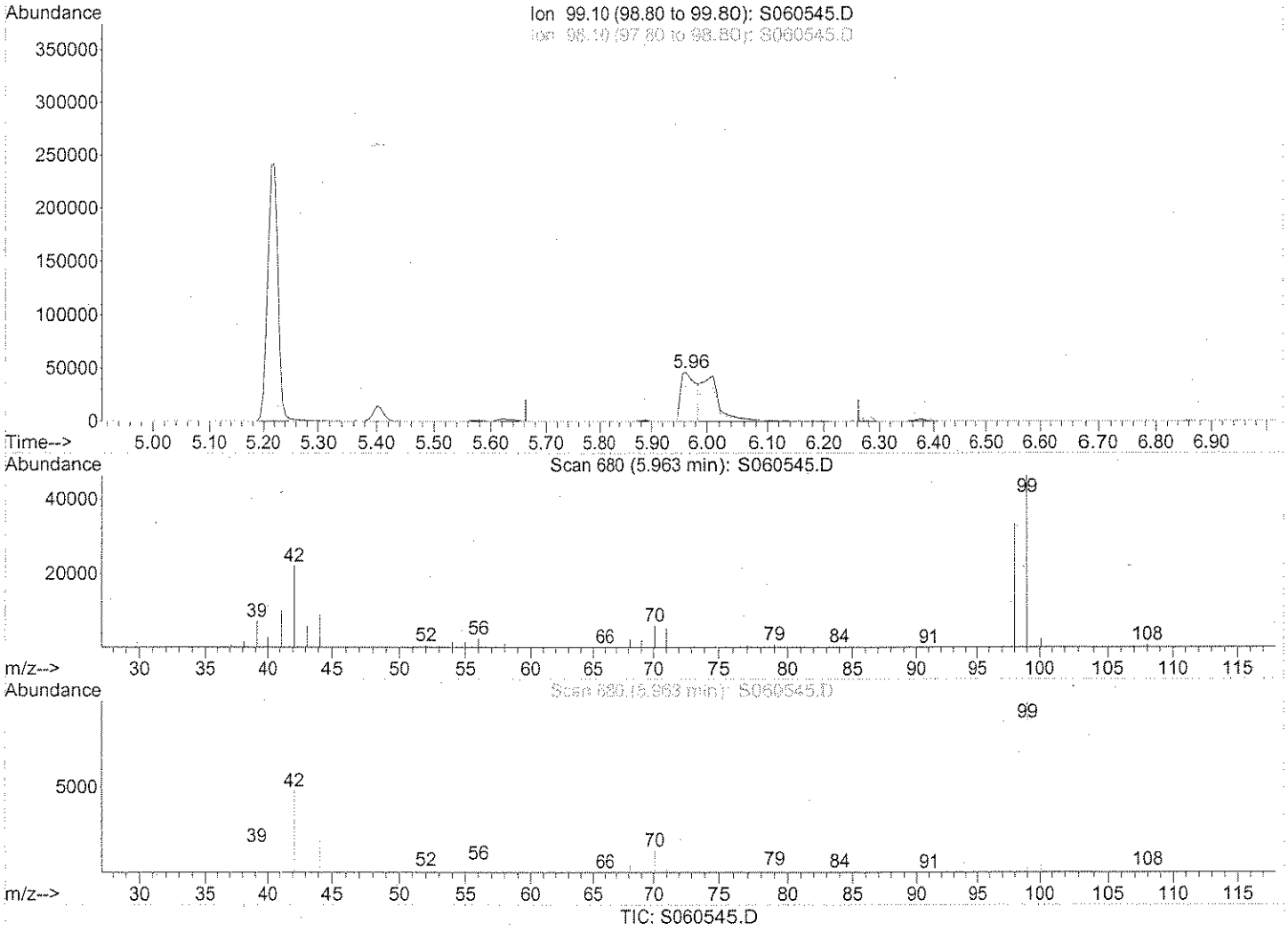
Split Peak 4/23/06

PA 4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:16 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060545.D

(16) N-Methyl pyrrolidine (NMP) (N)

5.96min 50.00mg/L

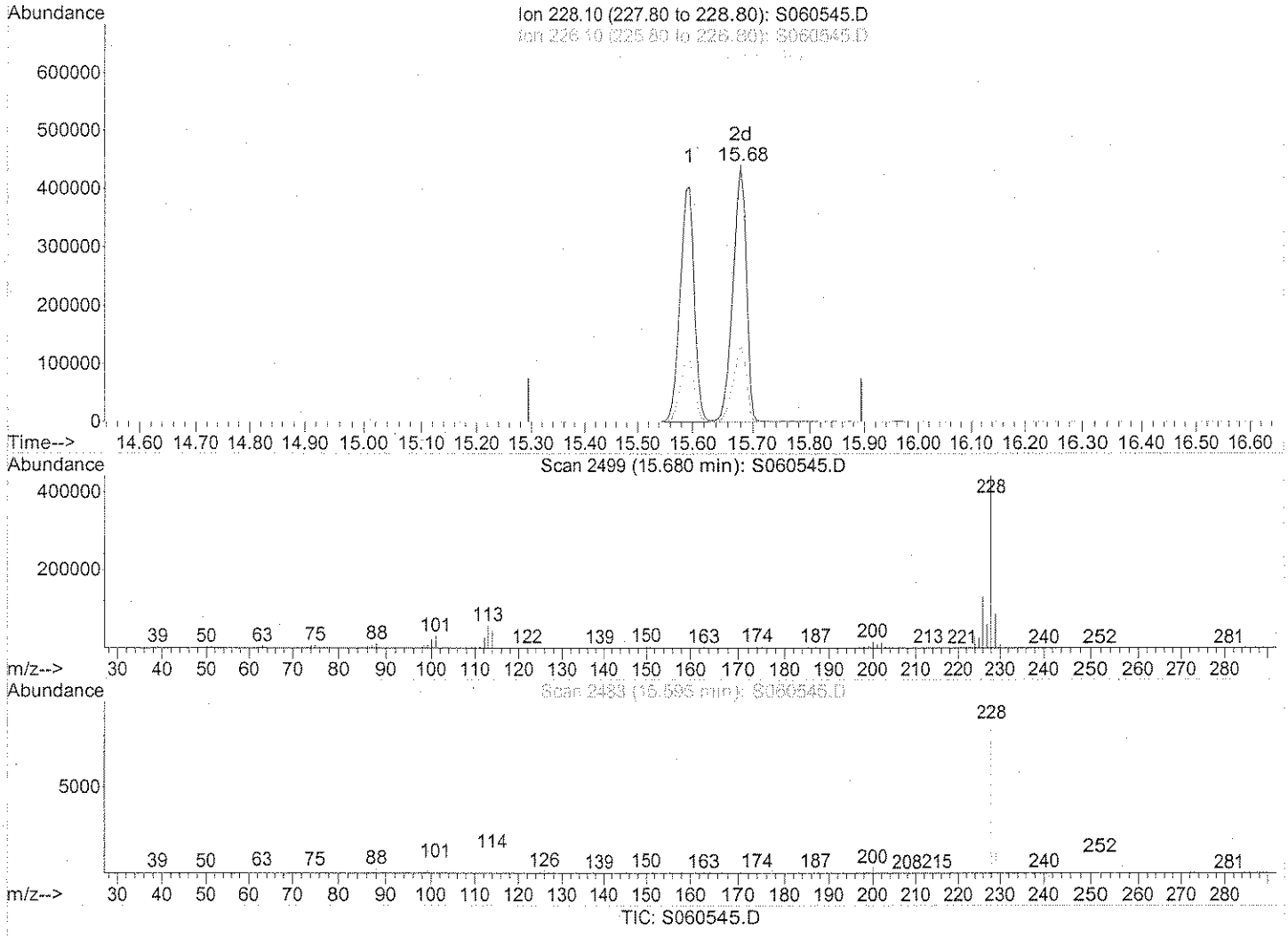
response 87709

Ion	Exp%	Act%
99.10	100	100
98.10	72.00	83.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:25 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.68min 45.74mg/L m

response 653138

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	30.14
229.10	19.40	21.09
0.00	0.00	0.00

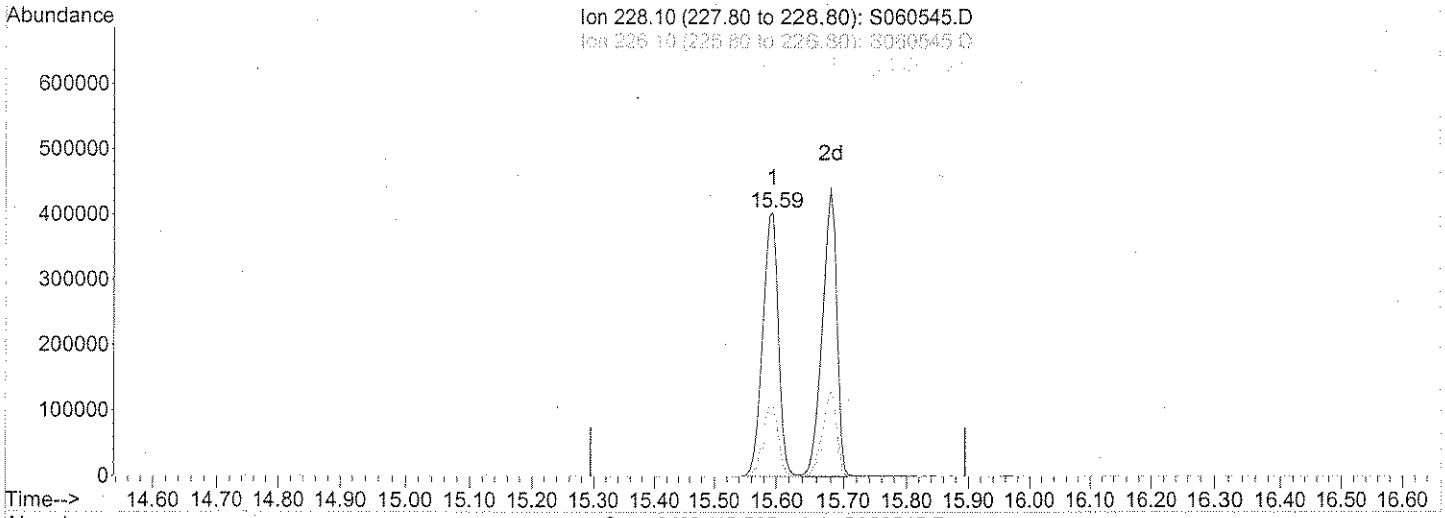
Wrong pos 4/23/06

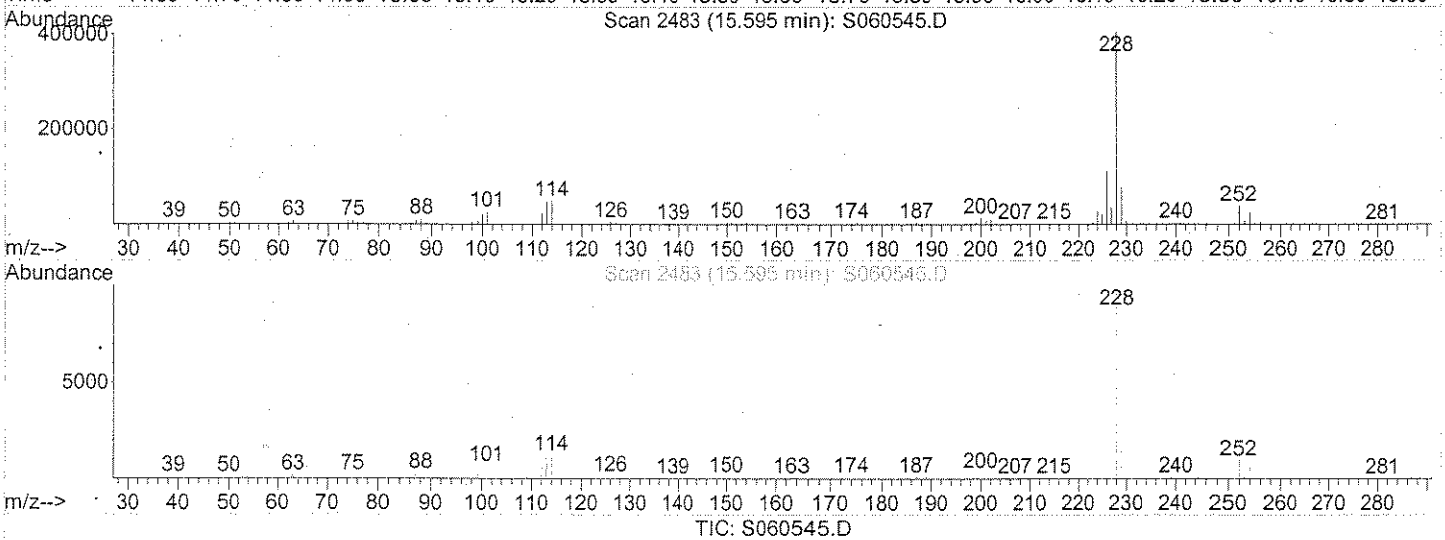
DF 4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:16 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration





TIC: S060545.D

(77) Chrysene (T)

15.59min 50.00mg/L

response 714020

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.57
229.10	19.40	19.29
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:15:25 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	162706	40.00	mg/L		0.00
22) Naphthalene-d8	7.27	136	640753	40.00	mg/L		0.00
37) Acenaphthene-d10	9.53	164	359555	40.00	mg/L		0.00
57) Phenanthrene-d10	11.37	188	591804	40.00	mg/L		0.00
70) Chrysene-d12	15.63	240	487244	40.00	mg/L		0.00
80) Perylene-d12	18.44	264	191488	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.08	112	265249	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery	=	100.00%		
7) Phenol-d5	5.22	99	335584	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery	=	100.00%		
23) Nitrobenzene-d5	6.37	82	308892	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery	=	100.00%		
41) 2-Fluorobiphenyl	8.67	172	563713	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery	=	100.00%		
61) 2,4,6-Tribromophenol	10.52	330	97977	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery	=	100.00%		
73) Terphenyl-d14	13.69	244	602735	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery	=	100.00%		
Target Compounds							Qvalue
2) 1,4-Dioxane	2.43	88	100075	50.00	mg/L	#	62
3) N-Nitrosodimethylamine	2.74	42	98642	50.00	mg/L	#	71
4) Pyridine	2.75	79	250052	50.00	mg/L	#	47
5) PGMEA	4.00	43	170208	50.00	mg/L	#	38
8) Aniline	5.27	93	326350	50.00	mg/L		97
9) Phenol	5.24	94	359855	50.00	mg/L	#	80
10) Bis(2-chloroethyl)ether	5.33	93	283164	50.00	mg/L	#	82
11) 2-Chlorophenol	5.40	128	288346	50.00	mg/L		95
12) 1,3-Dichlorobenzene	5.58	146	335331	50.00	mg/L		99
13) 1,4-Dichlorobenzene	5.64	146	340009	50.00	mg/L		100
14) Benzyl alcohol	5.83	108	166140	50.00	mg/L	#	71
15) 1,2-Dichlorobenzene	5.89	146	324282	50.00	mg/L		99
16) N-Methyl pyrrolidine (NMP)	5.96	99	87709	50.00	mg/L		86
17) 2-Methylphenol	6.01	108	265507	50.00	mg/L		96
18) Bis(2-chloroisopropyl)ethe	6.02	45	67652	50.00	mg/L	#	1
19) N-Nitrosodi-n-propylamine	6.21	70	233205	50.00	mg/L	#	52
20) Hexachloroethane	6.28	117	139526	50.00	mg/L		87
21) 3- and 4-Methylphenol Coel	6.19	107	337250	50.00	mg/L	#	93
24) Nitrobenzene	6.40	77	346399	50.00	mg/L	#	75
25) Isophorone	6.69	82	590647	50.00	mg/L		98
26) 2-Nitrophenol	6.81	139	150966	50.00	mg/L	#	89
27) 2,4-Dimethylphenol	6.86	122	247435	50.00	mg/L		94
28) Bis(2-chloroethoxy)methane	6.98	93	312379	50.00	mg/L		86
29) 2,4-Dichlorophenol	7.11	162	244756	50.00	mg/L		99
30) 1,2,4-Trichlorobenzene	7.21	180	271777	50.00	mg/L		100
31) Benzoic acid	7.06	122	178695	50.00	mg/L	#	84
32) Naphthalene	7.30	128	813066	50.00	mg/L		100
33) 4-Chloroaniline	7.40	127	232334	50.00	mg/L		97
34) Hexachlorobutadiene	7.52	225	765152	50.00	mg/L		99

(#) = qualifier out of range (m) = manual integration
S060545.D BA060422.M Sun Apr 23 09:15:30 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:15:25 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

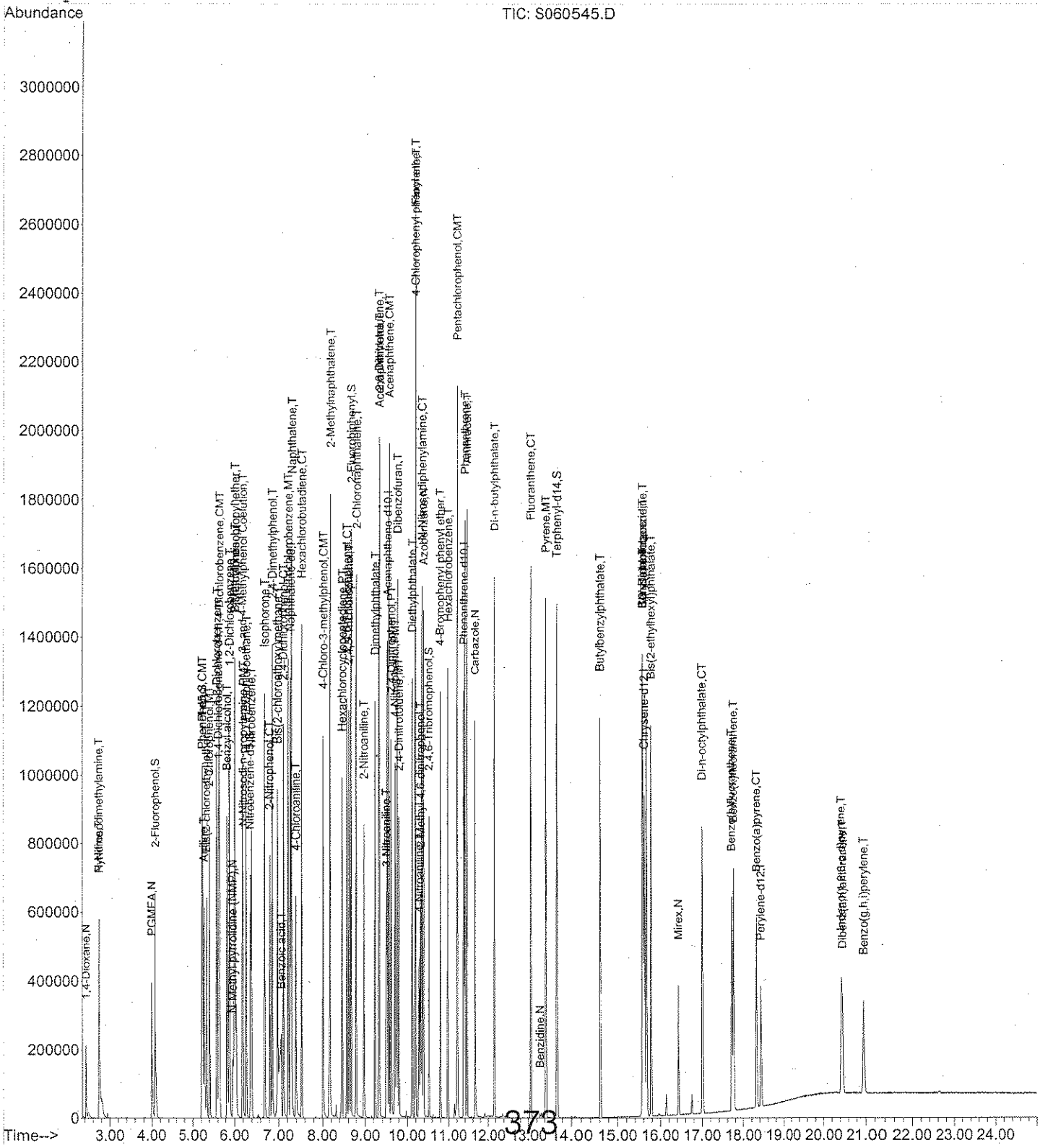
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.01	107	233861	50.00	mg/L		97
36)	2-Methylnaphthalene	8.17	142	551568	50.00	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	172184	50.00	mg/L		99
39)	2,4,6-Trichlorophenol	8.57	196	173677	50.00	mg/L		96
40)	2,4,5-Trichlorophenol	8.62	196	192102	50.00	mg/L		96
42)	2-Chloronaphthalene	8.79	162	504073	50.00	mg/L		99
43)	2-Nitroaniline	8.98	65	152773	50.00	mg/L		98
44)	Dimethylphthalate	9.23	163	560345	50.00	mg/L		93
45)	Acenaphthylene	9.33	152	780080	50.00	mg/L		100
46)	2,6-Dinitrotoluene	9.32	165	141587	50.00	mg/L	#	71
47)	3-Nitroaniline	9.50	138	105742	50.00	mg/L		90
48)	Acenaphthene	9.56	154	457410	50.00	mg/L		98
49)	2,4-Dinitrophenol	9.62	184	173639	50.00	mg/L	#	90
50)	Dibenzofuran	9.77	168	704365	50.00	mg/L		96
51)	4-Nitrophenol	9.71	109	146377	50.00	mg/L	#	61
52)	2,4-Dinitrotoluene	9.81	165	168488	50.00	mg/L		87
53)	Fluorene	10.20	166	553655	50.00	mg/L		97
54)	Diethylphthalate	10.12	149	555585	50.00	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.19	204	286300	50.00	mg/L		99
56)	4-Nitroaniline	10.28	138	97864	50.00	mg/L	#	84
58)	2-Methyl-4,6-dinitrophenol	10.32	198	110173	50.00	mg/L	#	86
59)	N-Nitrosodiphenylamine	10.35	169	383060	50.00	mg/L		97
60)	Azobenzene	10.39	77	651379	50.00	mg/L		93
62)	4-Bromophenyl phenyl ether	10.80	248	175179	50.00	mg/L		99
63)	Hexachlorobenzene	10.98	284	186990	50.00	mg/L		99
64)	Pentachlorophenol	11.21	266	263647	50.00	mg/L		100
65)	Phenanthrene	11.40	178	748000	50.00	mg/L		99
66)	Anthracene	11.45	178	744041	50.00	mg/L		100
67)	Carbazole	11.66	167	569395	50.00	mg/L		100
68)	Di-n-butylphthalate	12.18	149	932605	50.00	mg/L	#	99
69)	Fluoranthene	13.07	202	873247	50.00	mg/L	#	94
71)	Benzidine	13.28	184	11349	50.00	mg/L	#	91
72)	Pyrene	13.43	202	864319	50.00	mg/L		99
74)	Butylbenzylphthalate	14.62	149	381684	50.00	mg/L		93
75)	Benz(a)anthracene	15.59	228	714020	50.00	mg/L		99
76)	3,3'-Dichlorobenzidine	15.58	252	151860	50.00	mg/L		98
77)	Chrysene	15.59	228	714020	50.00	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	15.79	149	499817	50.00	mg/L		99
79)	Mirex	16.43	272	69874	50.00	mg/L		98
81)	Di-n-octylphthalate	17.01	149	673204	50.00	mg/L		100
82)	Benzo(b)fluoranthene	17.72	252	453648	50.00	mg/L	#	93
83)	Benzo(k)fluoranthene	17.77	252	424192	50.00	mg/L	#	95
84)	Benzo(a)pyrene	18.33	252	354463	50.00	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.43	276	289360	50.00	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.47	278	218982	50.00	mg/L	#	86
87)	Benzo(g,h,i)perylene	20.97	276	225912	50.00	mg/L	#	78

(#) = qualifier out of range (m) = manual integration
S060545.D BA060422.M Sun Apr 23 09:15:30 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060545.D Vial: 9
Acq On : 22 Apr 2006 7:59 pm Operator: SC
Sample : SSTD050 Inst : MSS
Misc : SSTD050;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:15 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:26:57 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E 4/23/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	163307	40.00	mg/L	0.00
22) Naphthalene-d8	7.28	136	641303	40.00	mg/L	0.00
37) Acenaphthene-d10	9.53	164	356865	40.00	mg/L	0.00
57) Phenanthrene-d10	11.37	188	595020	40.00	mg/L	0.00
70) Chrysene-d12	15.64	240	403171	40.00	mg/L	0.01
80) Perylene-d12	18.44	264	137611	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.09	112	371269	69.73	mg/L	0.00
Spiked Amount 50.000			Recovery =	139.46%		
7) Phenol-d5	5.23	99	476888	70.79	mg/L	0.01
Spiked Amount 50.000			Recovery =	141.58%		
23) Nitrobenzene-d5	6.38	82	441493	71.40	mg/L	0.01
Spiked Amount 50.000			Recovery =	142.80%		
41) 2-Fluorobiphenyl	8.68	172	802440	71.71	mg/L	0.01
Spiked Amount 50.000			Recovery =	143.42%		
61) 2,4,6-Tribromophenol	10.53	330	138385	70.24	mg/L	0.01
Spiked Amount 50.000			Recovery =	140.48%		
73) Terphenyl-d14	13.70	244	796488	79.85	mg/L	0.01
Spiked Amount 50.000			Recovery =	159.70%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.42	88	171822m	85.53	mg/L	
3) N-Nitrosodimethylamine	2.74	42	173518m	87.63	mg/L	
4) Pyridine	2.75	79	441799m	88.02	mg/L	
5) PGMEA	4.00	43	243944	71.40	mg/L #	39
8) Aniline	5.27	93	459969	70.21	mg/L	96
9) Phenol	5.25	94	544991	75.45	mg/L #	83
10) Bis(2-chloroethyl)ether	5.34	93	404881	71.23	mg/L #	82
11) 2-Chlorophenol	5.41	128	410370	70.90	mg/L	95
12) 1,3-Dichlorobenzene	5.58	146	474801	70.54	mg/L	99
13) 1,4-Dichlorobenzene	5.65	146	481515	70.55	mg/L	100
14) Benzyl alcohol	5.84	108	239725	71.88	mg/L #	72
15) 1,2-Dichlorobenzene	5.89	146	458828	70.48	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.02	99	250648	142.36	mg/L	99
17) 2-Methylphenol	6.02	108	369027	69.24	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.02	45	97166	71.55	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.22	70	328495	70.17	mg/L #	54
20) Hexachloroethane	6.28	117	195433	69.78	mg/L	86
21) 3- and 4-Methylphenol Coel	6.20	107	474245	70.05	mg/L #	93
24) Nitrobenzene	6.41	77	482031	69.52	mg/L #	75
25) Isophorone	6.70	82	837757	70.86	mg/L	98
26) 2-Nitrophenol	6.82	139	215115	71.19	mg/L #	88
27) 2,4-Dimethylphenol	6.87	122	346027	69.86	mg/L	93
28) Bis(2-chloroethoxy)methane	6.99	93	439036	70.21	mg/L	86
29) 2,4-Dichlorophenol	7.12	162	343211	70.05	mg/L	99
30) 1,2,4-Trichlorobenzene	7.22	180	385601	70.88	mg/L	100
31) Benzoic acid	7.09	122	252892	70.70	mg/L #	85
32) Naphthalene	7.30	128	1148823	70.59	mg/L	99
33) 4-Chloroaniline	7.40	127	340134	73.14	mg/L	97
34) Hexachlorobutadiene	7.53	225	223421	70.61	mg/L	99

374

(#) = qualifier out of range (m) = manual integration
S060546.D BA060422.M Sun Apr 23 09:29:02 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:26:57 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

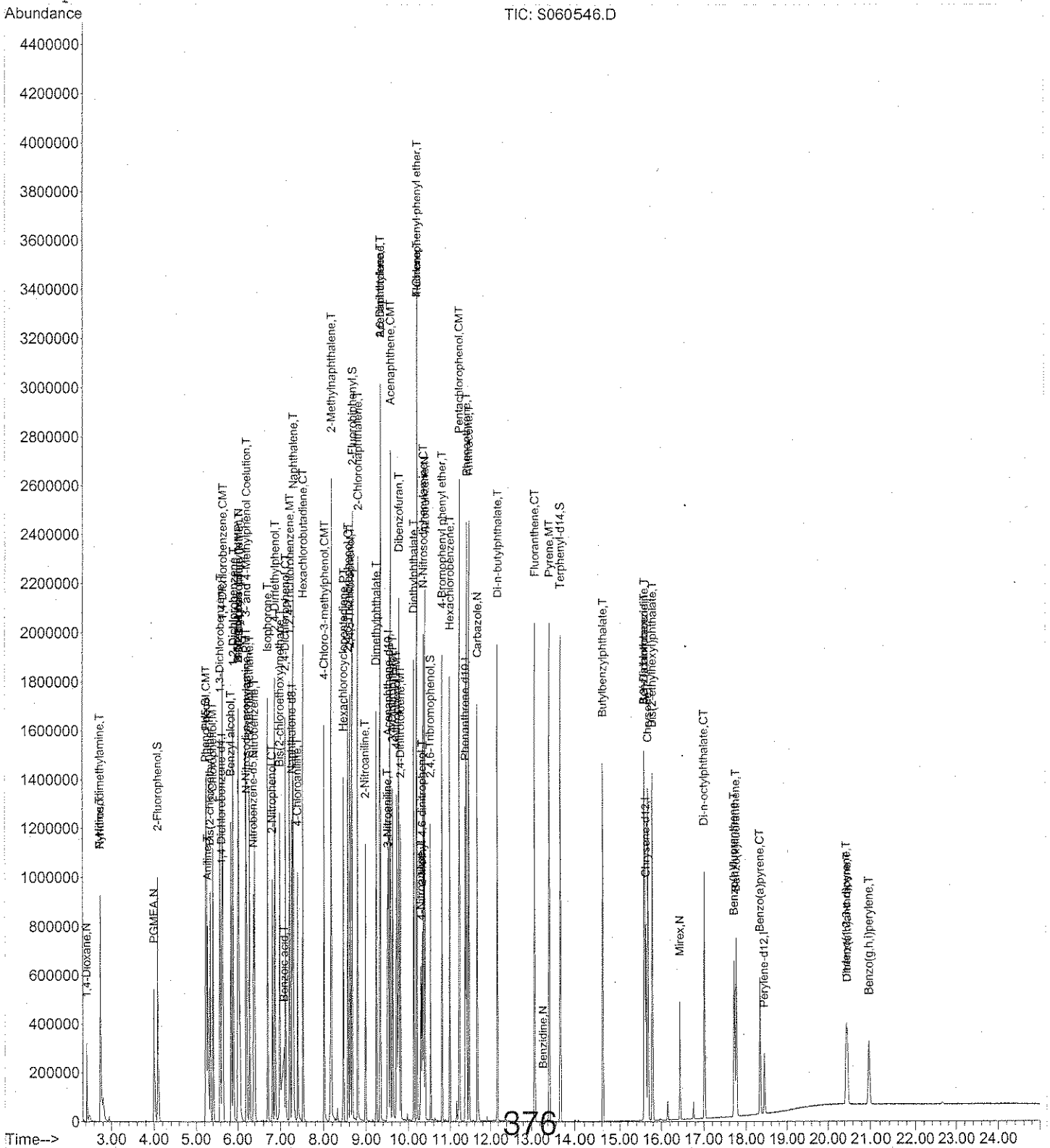
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.02	107	338862	72.39 mg/L		95
36)	2-Methylnaphthalene	8.18	142	782683	70.89 mg/L		100
38)	Hexachlorocyclopentadiene	8.47	237	241921	70.78 mg/L		98
39)	2,4,6-Trichlorophenol	8.57	196	250805	72.75 mg/L		96
40)	2,4,5-Trichlorophenol	8.63	196	272741	71.52 mg/L		96
42)	2-Chloronaphthalene	8.80	162	720395	72.00 mg/L		100
43)	2-Nitroaniline	8.99	65	216968	71.55 mg/L		97
44)	Dimethylphthalate	9.24	163	797953	71.74 mg/L	#	93
45)	Acenaphthylene	9.34	152	1115119	72.01 mg/L		99
46)	2,6-Dinitrotoluene	9.33	165	204313	72.69 mg/L	#	70
47)	3-Nitroaniline	9.51	138	150301	71.61 mg/L	#	88
48)	Acenaphthene	9.57	154	642260	70.74 mg/L		99
49)	2,4-Dinitrophenol	9.63	184	234883	68.15 mg/L	#	89
50)	Dibenzofuran	9.78	168	980484	70.13 mg/L		95
51)	4-Nitrophenol	9.72	109	208442	71.74 mg/L	#	60
52)	2,4-Dinitrotoluene	9.82	165	237512	71.01 mg/L		87
53)	Fluorene	10.20	166	782664	71.21 mg/L		98
54)	Diethylphthalate	10.13	149	790235	71.65 mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.20	204	405439	71.34 mg/L		98
56)	4-Nitroaniline	10.30	138	143431	73.83 mg/L	#	84
58)	2-Methyl-4,6-dinitrophenol	10.33	198	148932	67.22 mg/L		91
59)	N-Nitrosodiphenylamine	10.36	169	535734	69.55 mg/L		95
60)	Azobenzene	10.40	77	942556	71.96 mg/L		93
62)	4-Bromophenyl phenyl ether	10.80	248	248024	70.41 mg/L		99
63)	Hexachlorobenzene	10.99	284	263818	70.16 mg/L		99
64)	Pentachlorophenol	11.22	266	366888	69.20 mg/L		99
65)	Phenanthrene	11.41	178	1064282	70.76 mg/L		99
66)	Anthracene	11.46	178	1052658	70.36 mg/L		100
67)	Carbazole	11.67	167	836335	73.04 mg/L		99
68)	Di-n-butylphthalate	12.19	149	1292720	68.93 mg/L	#	99
69)	Fluoranthene	13.08	202	1180369	67.22 mg/L	#	94
71)	Benzidine	13.29	184	21587	114.94 mg/L	#	91
72)	Pyrene	13.44	202	1158572	81.00 mg/L		99
74)	Butylbenzylphthalate	14.63	149	486861	77.08 mg/L		92
75)	Benz(a)anthracene	15.61	228	831972	70.41 mg/L		99
76)	3,3'-Dichlorobenzidine	15.59	252	171081	68.07 mg/L		99
77)	Chrysene	15.69	228	754445m	63.85 mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.80	149	630170	76.19 mg/L		99
79)	Mirex	16.44	272	90380	78.16 mg/L		97
81)	Di-n-octylphthalate	17.02	149	795985	82.27 mg/L		100
82)	Benzo(b)fluoranthene	17.73	252	451544	69.25 mg/L	#	94
83)	Benzo(k)fluoranthene	17.77	252	449995	73.81 mg/L	#	94
84)	Benzo(a)pyrene	18.34	252	364110	71.47 mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.45	276	300742	72.31 mg/L	#	84
86)	Dibenz(a,h)anthracene	20.48	278	229033	72.77 mg/L	#	86
87)	Benzo(g,h,i)perylene	20.98	276	236231	72.75 mg/L	#	77

(#) = qualifier out of range (m) = manual integration
S060546.D BA060422.M Sun Apr 23 09:29:03 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:28 2006 Quant Results File: BA060422.RES

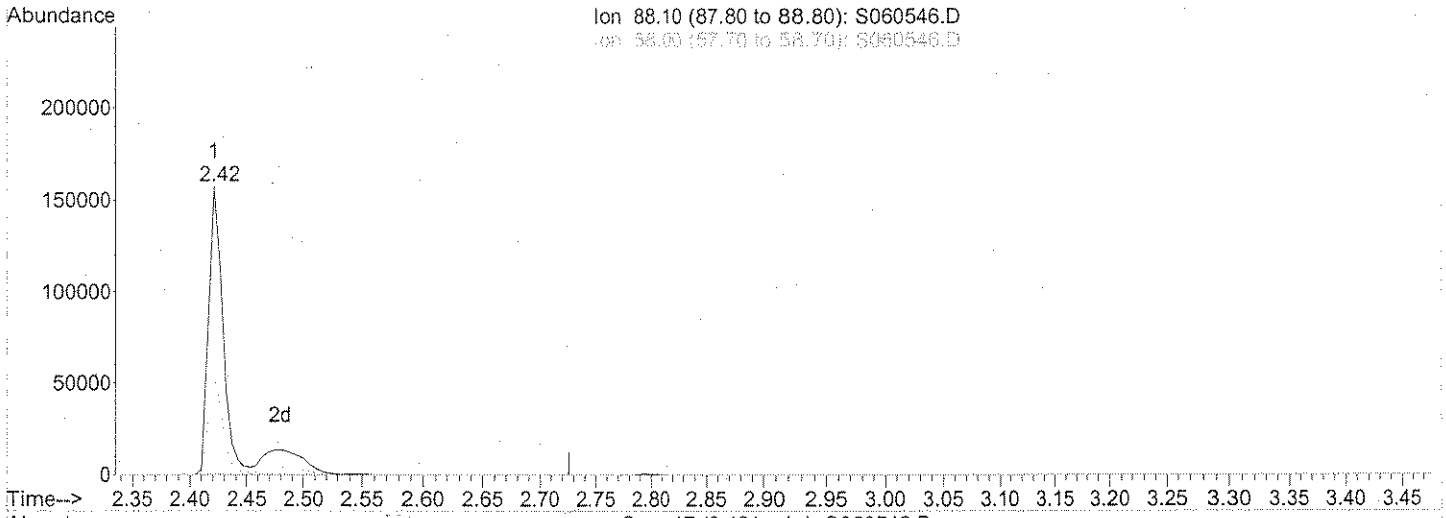
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration

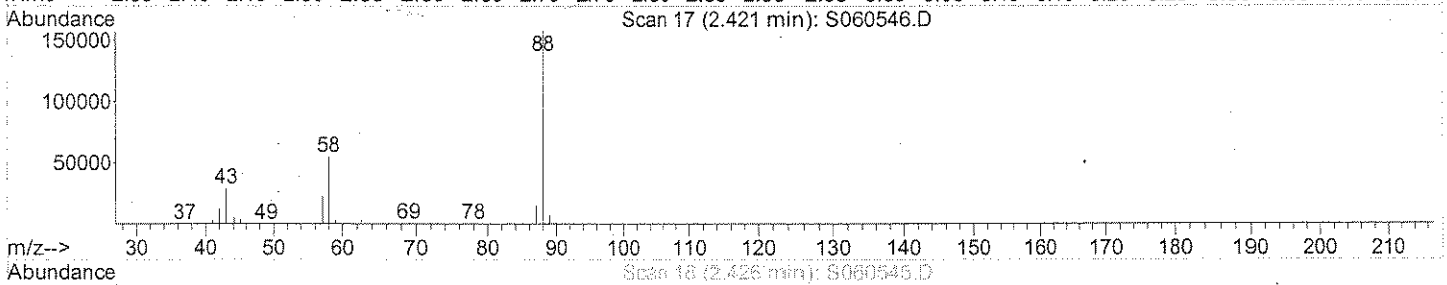


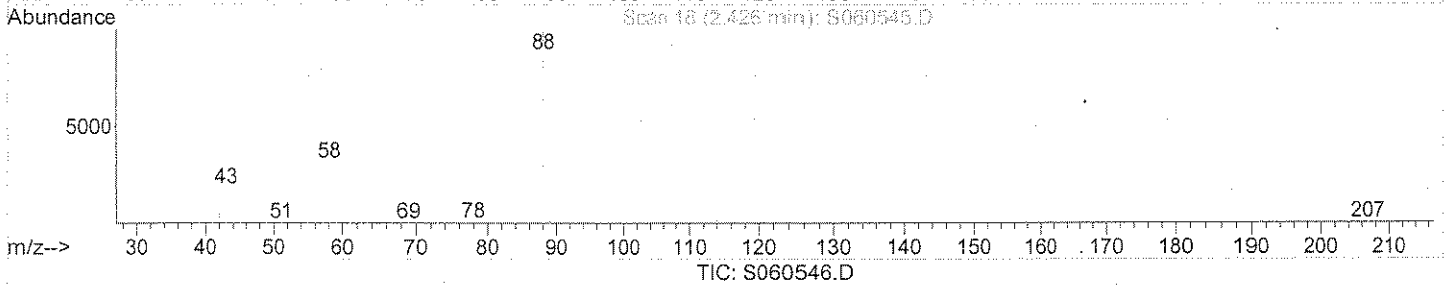
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:27 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







(2) 1,4-Dioxane (N)

2.42min 85.53mg/L m

response 171822

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	27.06#
0.00	0.00	0.00
0.00	0.00	0.00

split pair
4/27/06

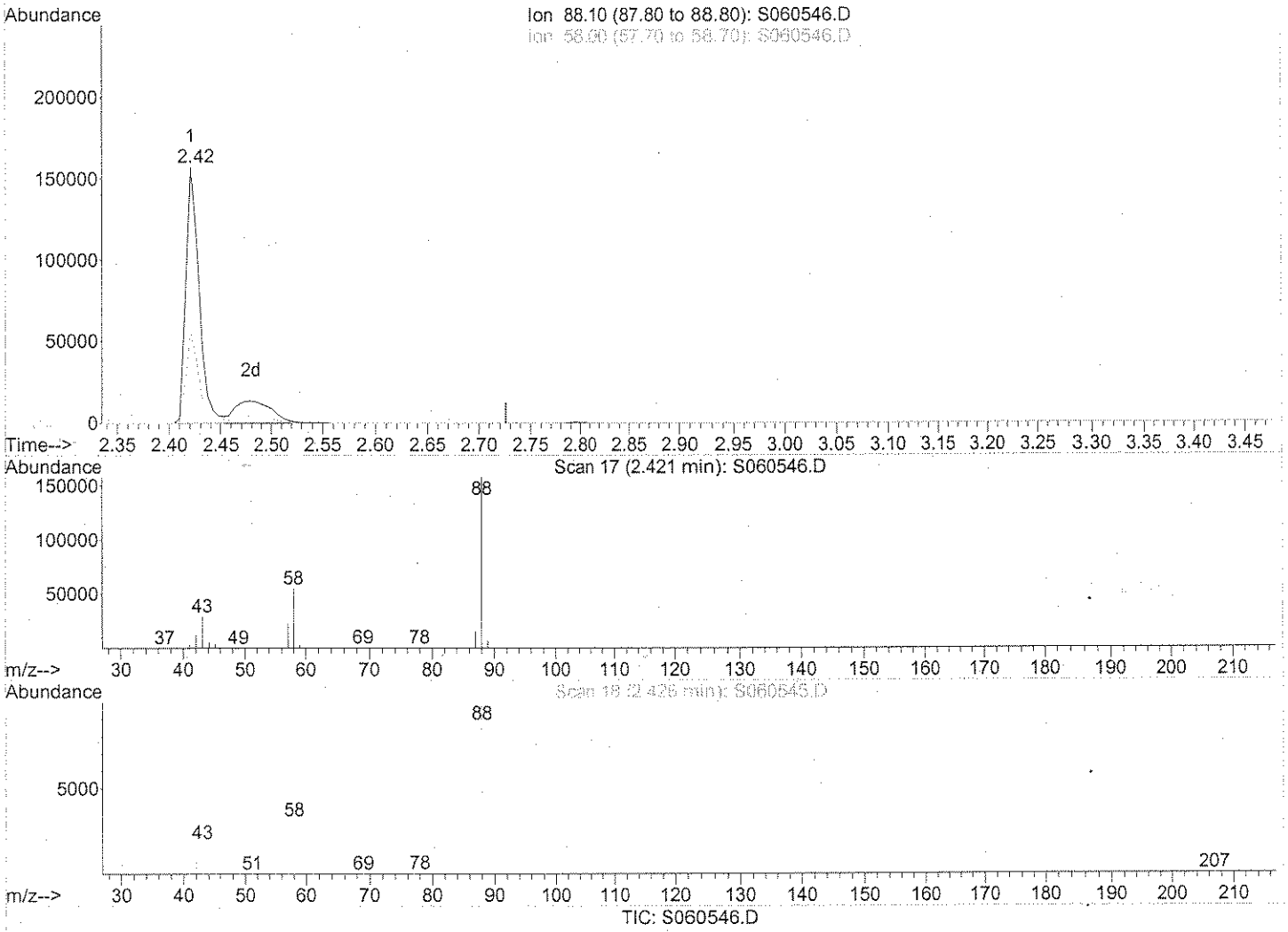
DA 4/26/06

377

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:26 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060546.D

(2) 1,4-Dioxane (N)

2.42min 68.25mg/L

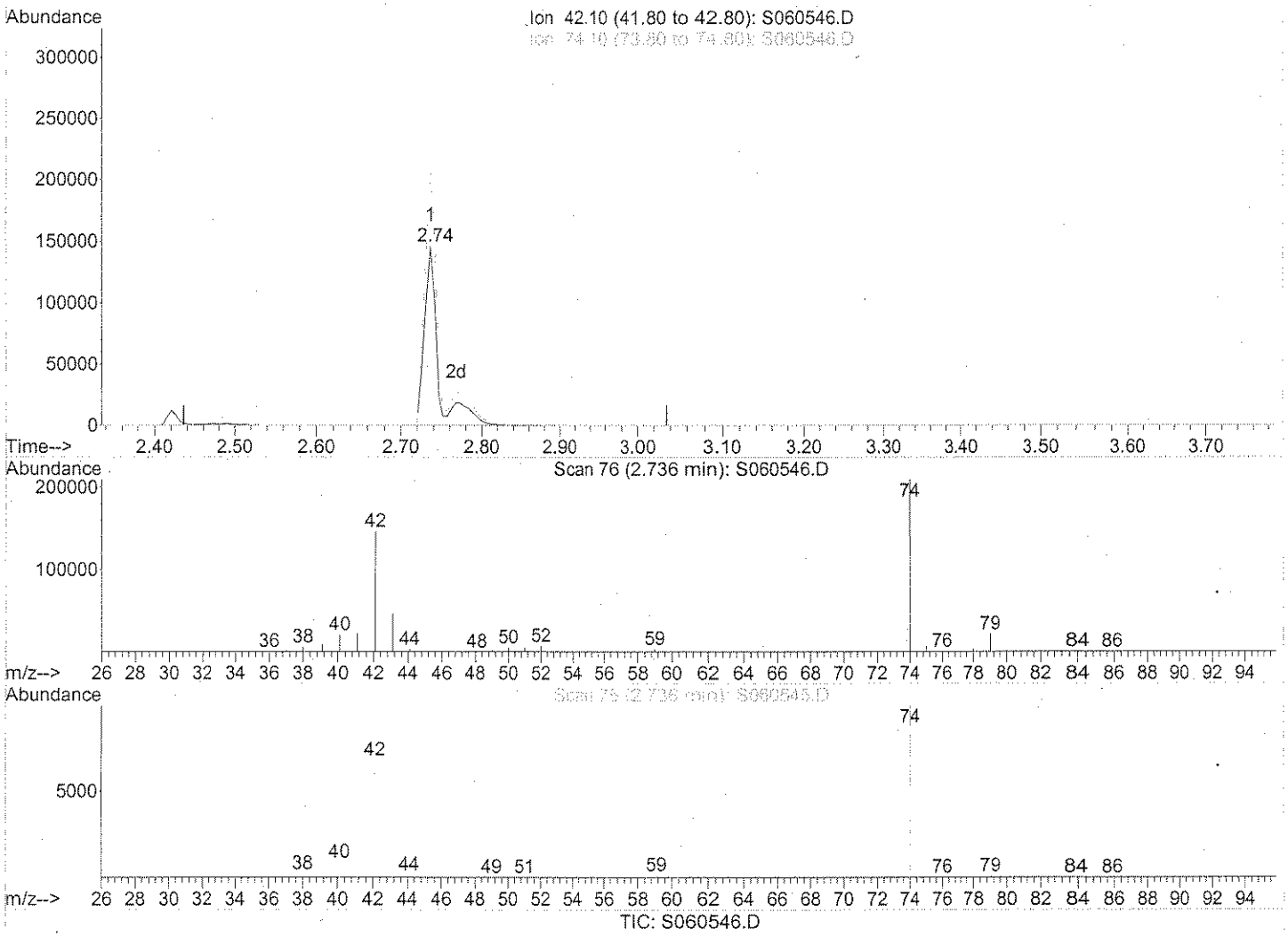
response 137099

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	33.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:27 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060546.D

(3) N-Nitrosodimethylamine (T)

2.74min 87.63mg/L m

response 173518

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	116.84
0.00	0.00	0.00
0.00	0.00	0.00

Spike Pair 4/27/06

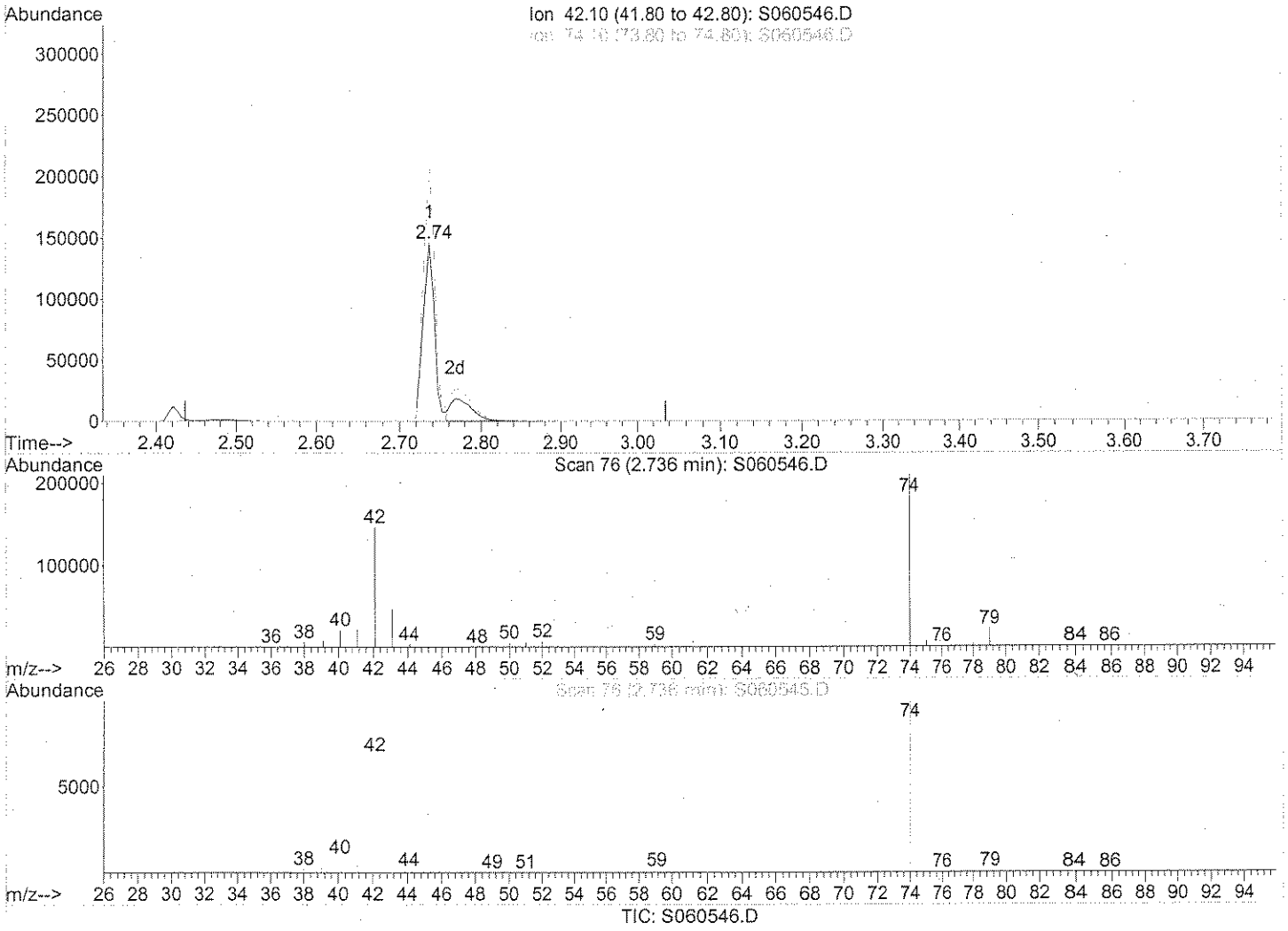
DM 4/26/06

379

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:27 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.74min 70.67mg/L

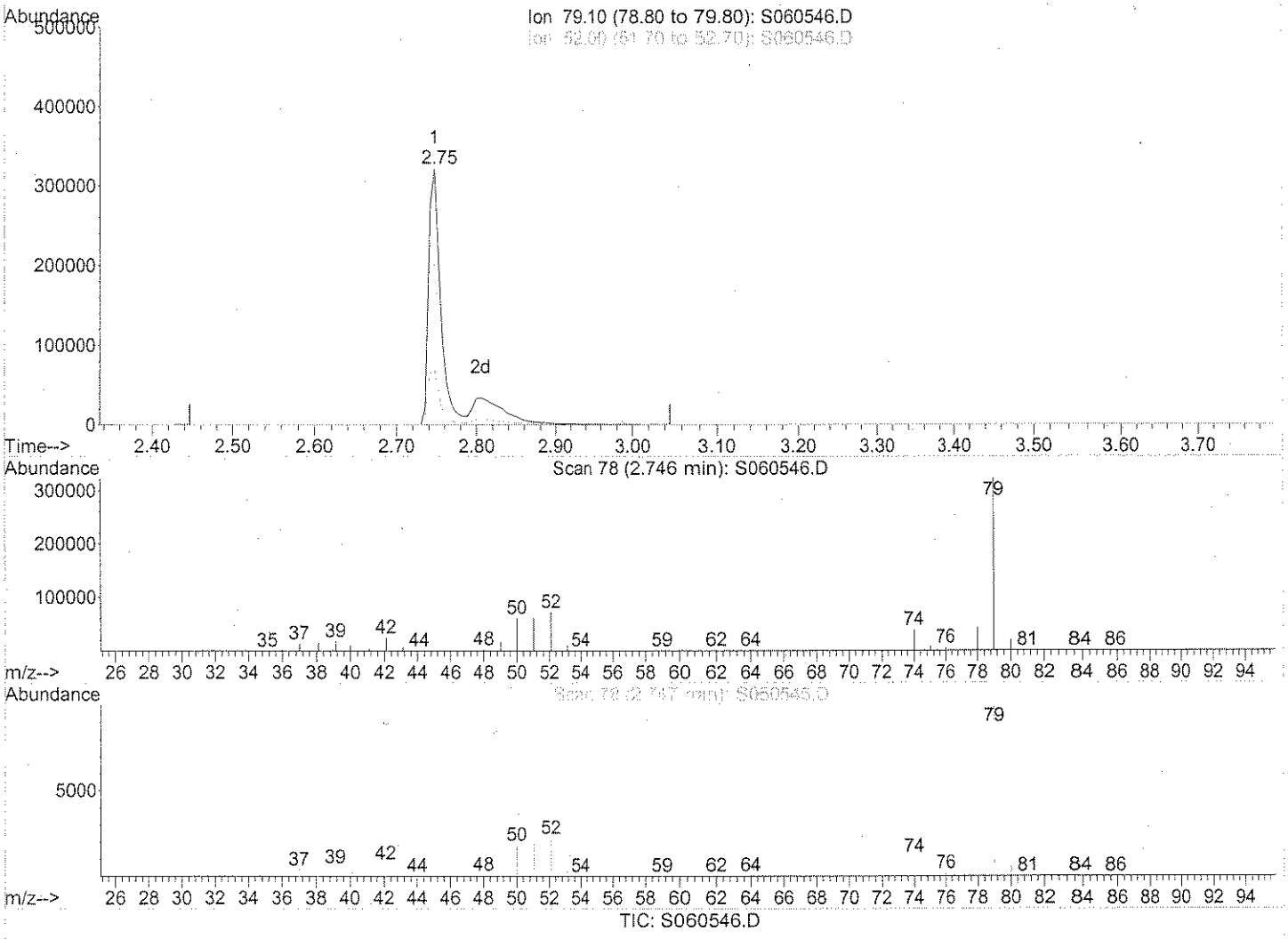
response 139934

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	144.88#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:27 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060546.D

(4) Pyridine (T)

2.75min 88.02mg/L m

response 441799

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	16.81#
0.00	0.00	0.00
0.00	0.00	0.00

Spike pg 4/23/06

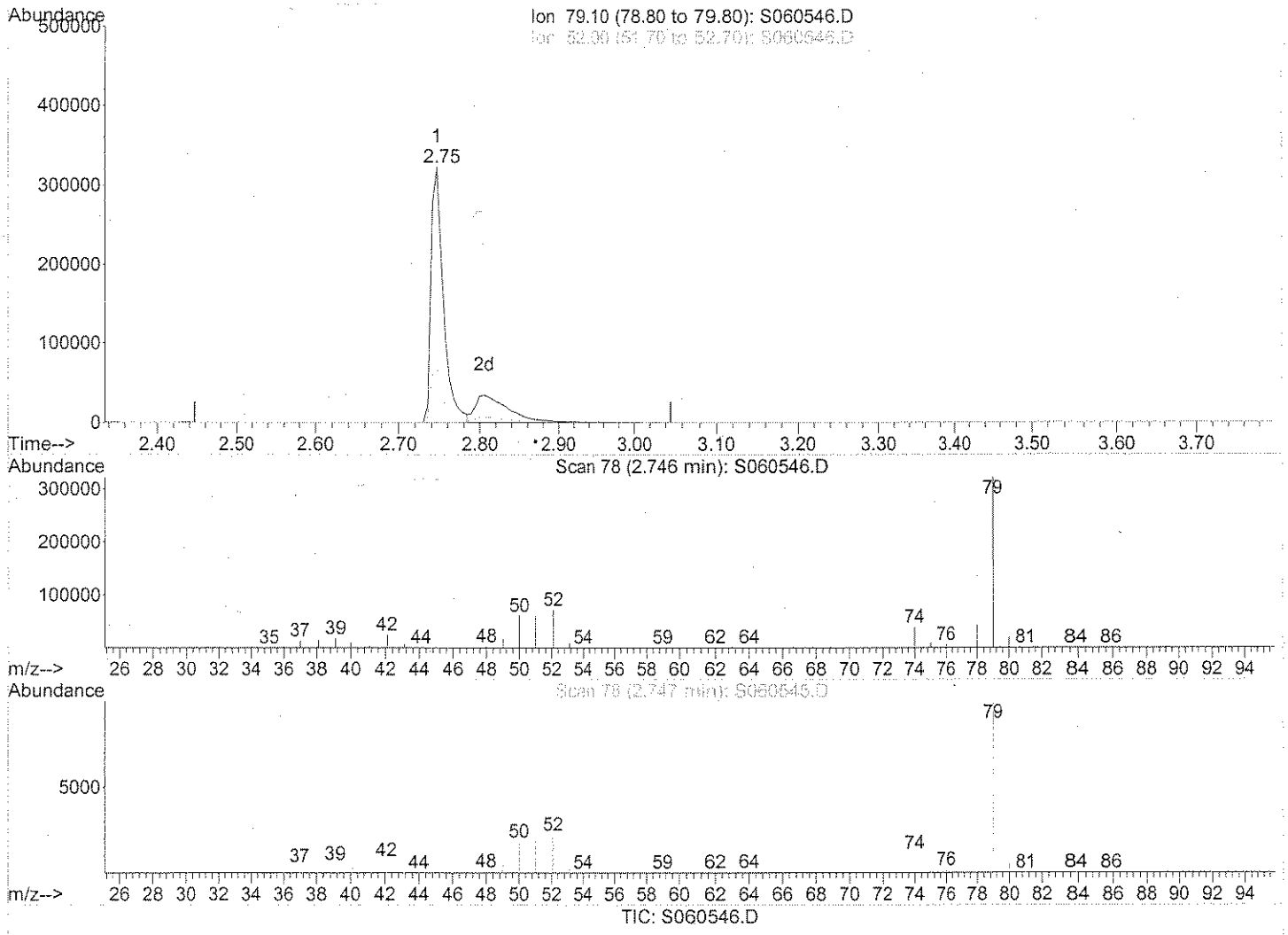
DM 4/26/06

381

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:27 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060546.D

(4) Pyridine (T)

2.75min 68.10mg/L

response 341812

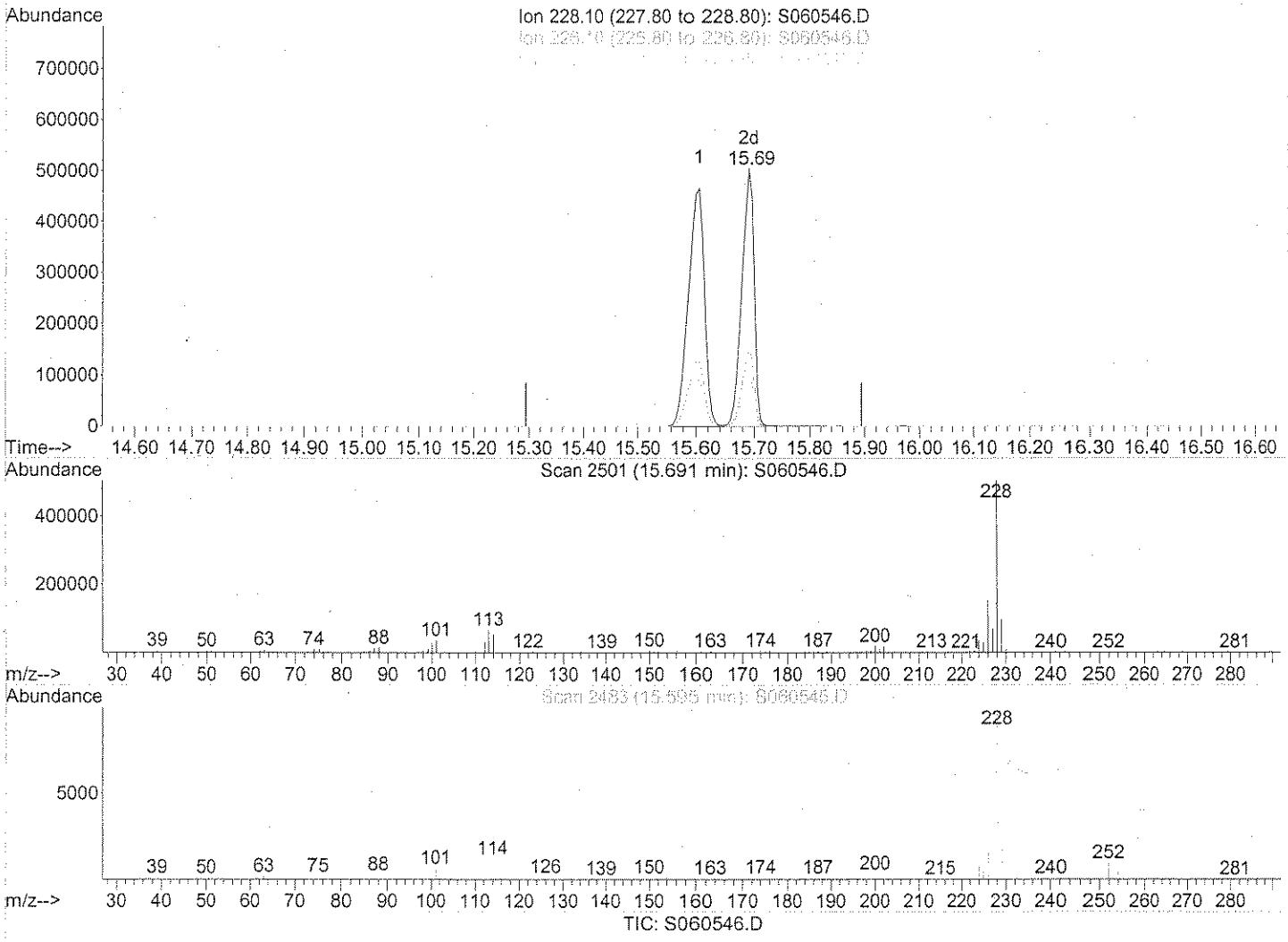
Ion	Exp%	Act%
79.10	100	100
52.00	62.40	21.72#
0.00	0.00	0.00
0.00	0.00	0.00

382

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:28 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.69min 63.85mg/L m

response 754445

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	30.36
229.10	19.40	21.27
0.00	0.00	0.00

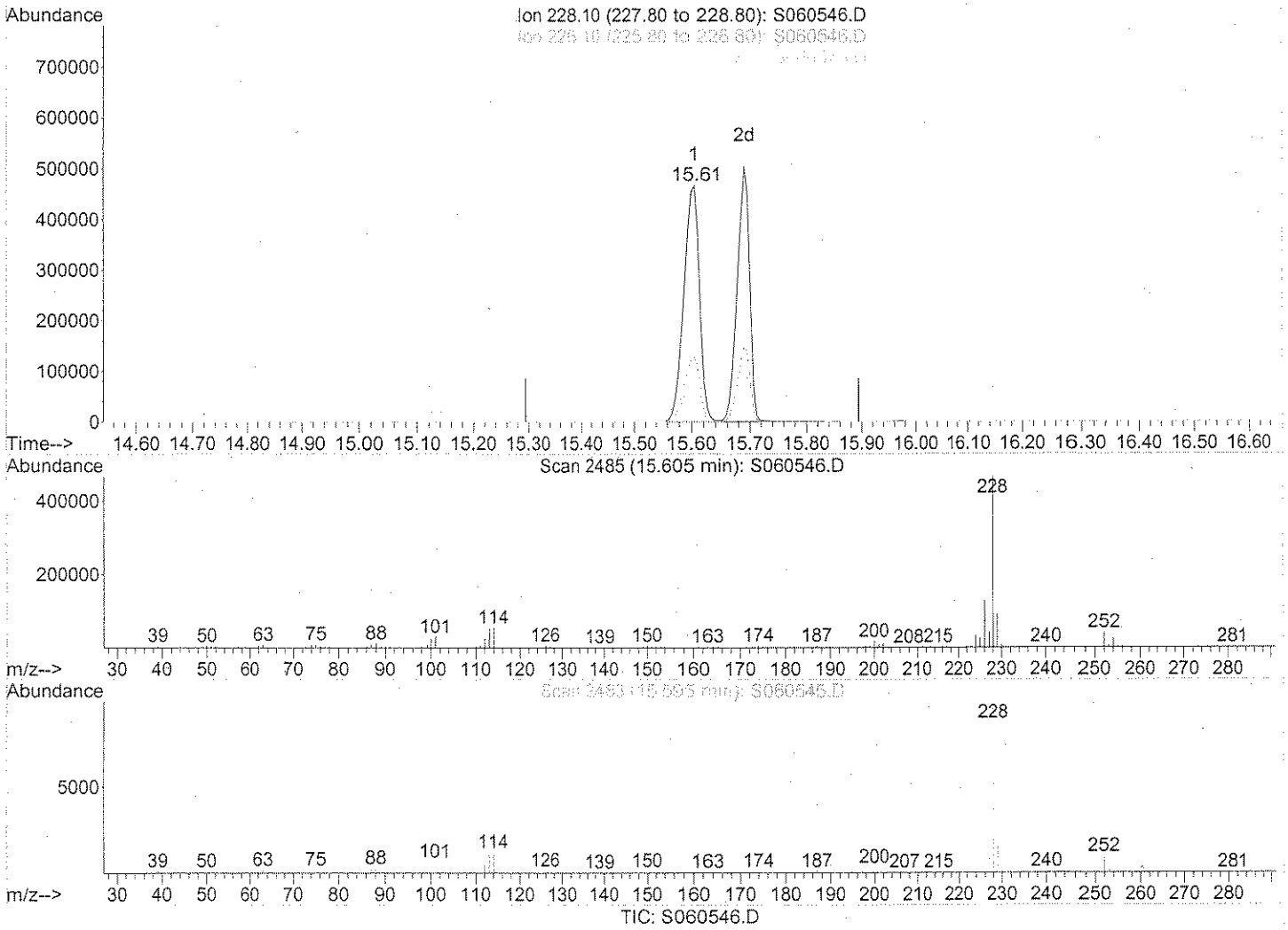
Wrong peak 4/23/06

4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:27 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.61min 70.41mg/L

response 831972

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.53
229.10	19.40	19.29
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:26:57 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	163307	40.00	mg/L		0.00
22) Naphthalene-d8	7.28	136	641303	40.00	mg/L		0.00
37) Acenaphthene-d10	9.53	164	356865	40.00	mg/L		0.00
57) Phenanthrene-d10	11.37	188	595020	40.00	mg/L		0.00
70) Chrysene-d12	15.64	240	403171	40.00	mg/L		0.01
80) Perylene-d12	18.44	264	137611	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.09	112	371269	69.73	mg/L		0.00
Spiked Amount 50.000			Recovery =	139.46%			
7) Phenol-d5	5.23	99	476888	70.79	mg/L		0.01
Spiked Amount 50.000			Recovery =	141.58%			
23) Nitrobenzene-d5	6.38	82	441493	71.40	mg/L		0.01
Spiked Amount 50.000			Recovery =	142.80%			
41) 2-Fluorobiphenyl	8.68	172	802440	71.71	mg/L		0.01
Spiked Amount 50.000			Recovery =	143.42%			
61) 2,4,6-Tribromophenol	10.53	330	138385	70.24	mg/L		0.01
Spiked Amount 50.000			Recovery =	140.48%			
73) Terphenyl-d14	13.70	244	796488	79.85	mg/L		0.01
Spiked Amount 50.000			Recovery =	159.70%			
Target Compounds							Qvalue
2) 1,4-Dioxane	2.42	88	137099	68.25	mg/L	#	64
3) N-Nitrosodimethylamine	2.74	42	139934	70.67	mg/L	#	73
4) Pyridine	2.75	79	341812	68.10	mg/L	#	47
5) PGMEA	4.00	43	243944	71.40	mg/L	#	39
8) Aniline	5.27	93	459969	70.21	mg/L		96
9) Phenol	5.25	94	544991	75.45	mg/L	#	83
10) Bis(2-chloroethyl)ether	5.34	93	404881	71.23	mg/L	#	82
11) 2-Chlorophenol	5.41	128	410370	70.90	mg/L		95
12) 1,3-Dichlorobenzene	5.58	146	474801	70.54	mg/L		99
13) 1,4-Dichlorobenzene	5.65	146	481515	70.55	mg/L		100
14) Benzyl alcohol	5.84	108	239725	71.88	mg/L	#	72
15) 1,2-Dichlorobenzene	5.89	146	458828	70.48	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.02	99	250648	142.36	mg/L		99
17) 2-Methylphenol	6.02	108	369027	69.24	mg/L		98
18) Bis(2-chloroisopropyl)ethe	6.02	45	97166	71.55	mg/L	#	1
19) N-Nitrosodi-n-propylamine	6.22	70	328495	70.17	mg/L	#	54
20) Hexachloroethane	6.28	117	195433	69.78	mg/L		86
21) 3- and 4-Methylphenol Coel	6.20	107	474245	70.05	mg/L	#	93
24) Nitrobenzene	6.41	77	482031	69.52	mg/L	#	75
25) Isophorone	6.70	82	837757	70.86	mg/L		98
26) 2-Nitrophenol	6.82	139	215115	71.19	mg/L	#	88
27) 2,4-Dimethylphenol	6.87	122	346027	69.86	mg/L		93
28) Bis(2-chloroethoxy)methane	6.99	93	439036	70.21	mg/L		86
29) 2,4-Dichlorophenol	7.12	162	343211	70.05	mg/L		99
30) 1,2,4-Trichlorobenzene	7.22	180	385601	70.88	mg/L		100
31) Benzoic acid	7.09	122	252892	70.70	mg/L	#	85
32) Naphthalene	7.30	128	1148823	70.59	mg/L		99
33) 4-Chloroaniline	7.40	127	340134	73.14	mg/L		97
34) Hexachlorobutadiene	7.53	225	253421	70.61	mg/L		99

(#) = qualifier out of range (m) = manual integration
S060546.D BA060422.M Sun Apr 23 09:26:59 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:26:57 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

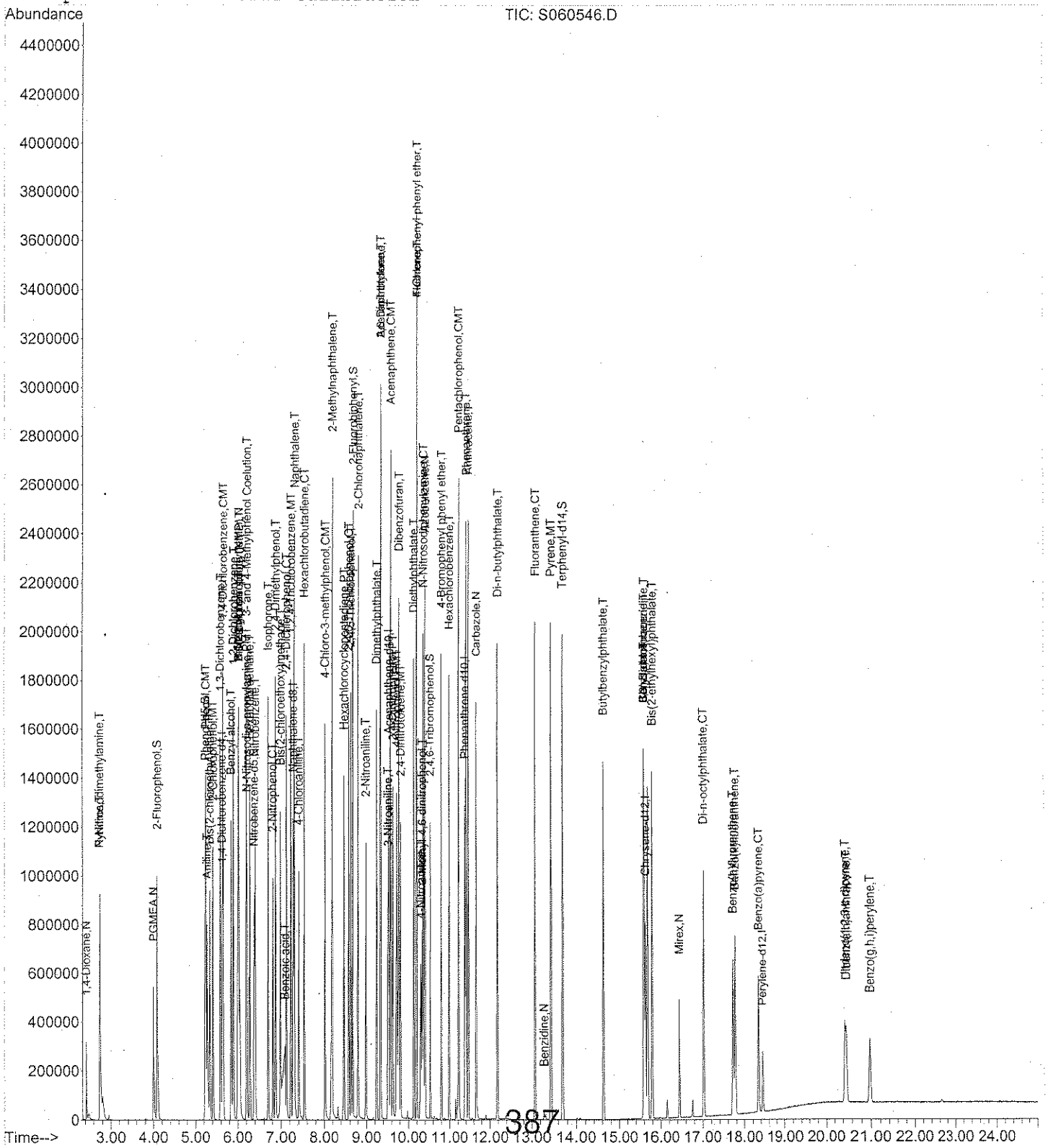
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.02	107	338862	72.39	mg/L		95
36)	2-Methylnaphthalene	8.18	142	782683	70.89	mg/L		100
38)	Hexachlorocyclopentadiene	8.47	237	241921	70.78	mg/L		98
39)	2,4,6-Trichlorophenol	8.57	196	250805	72.75	mg/L		96
40)	2,4,5-Trichlorophenol	8.63	196	272741	71.52	mg/L		96
42)	2-Chloronaphthalene	8.80	162	720395	72.00	mg/L		100
43)	2-Nitroaniline	8.99	65	216968	71.55	mg/L		97
44)	Dimethylphthalate	9.24	163	797953	71.74	mg/L	#	93
45)	Acenaphthylene	9.34	152	1115119	72.01	mg/L		99
46)	2,6-Dinitrotoluene	9.33	165	204313	72.69	mg/L	#	70
47)	3-Nitroaniline	9.51	138	150301	71.61	mg/L	#	88
48)	Acenaphthene	9.57	154	642260	70.74	mg/L		99
49)	2,4-Dinitrophenol	9.63	184	234883	68.15	mg/L	#	89
50)	Dibenzofuran	9.78	168	980484	70.13	mg/L		95
51)	4-Nitrophenol	9.72	109	208442	71.74	mg/L	#	60
52)	2,4-Dinitrotoluene	9.82	165	237512	71.01	mg/L		87
53)	Fluorene	10.20	166	782664	71.21	mg/L		98
54)	Diethylphthalate	10.13	149	790235	71.65	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.20	204	405439	71.34	mg/L		98
56)	4-Nitroaniline	10.30	138	143431	73.83	mg/L	#	84
58)	2-Methyl-4,6-dinitrophenol	10.33	198	148932	67.22	mg/L		91
59)	N-Nitrosodiphenylamine	10.36	169	535734	69.55	mg/L		95
60)	Azobenzene	10.40	77	942556	71.96	mg/L		93
62)	4-Bromophenyl phenyl ether	10.80	248	248024	70.41	mg/L		99
63)	Hexachlorobenzene	10.99	284	263818	70.16	mg/L		99
64)	Pentachlorophenol	11.22	266	366888	69.20	mg/L		99
65)	Phenanthrene	11.41	178	1064282	70.76	mg/L		99
66)	Anthracene	11.46	178	1052658	70.36	mg/L		100
67)	Carbazole	11.67	167	836335	73.04	mg/L		99
68)	Di-n-butylphthalate	12.19	149	1292720	68.93	mg/L	#	99
69)	Fluoranthene	13.08	202	1180369	67.22	mg/L	#	94
71)	Benzidine	13.29	184	21587	114.94	mg/L	#	91
72)	Pyrene	13.44	202	1158572	81.00	mg/L		99
74)	Butylbenzylphthalate	14.63	149	486861	77.08	mg/L		92
75)	Benz(a)anthracene	15.61	228	831972	70.41	mg/L		99
76)	3,3'-Dichlorobenzidine	15.59	252	171081	68.07	mg/L		99
77)	Chrysene	15.61	228	831972	70.41	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	15.80	149	630170	76.19	mg/L		99
79)	Mirex	16.44	272	90380	78.16	mg/L		97
81)	Di-n-octylphthalate	17.02	149	795985	82.27	mg/L		100
82)	Benzo(b)fluoranthene	17.73	252	451544	69.25	mg/L	#	94
83)	Benzo(k)fluoranthene	17.77	252	449995	73.81	mg/L	#	94
84)	Benzo(a)pyrene	18.34	252	364110	71.47	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.45	276	300742	72.31	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.48	278	229033	72.77	mg/L	#	86
87)	Benzo(g,h,i)perylene	20.98	276	236231	72.75	mg/L	#	77

(#) = qualifier out of range (m) = manual integration
S060546.D BA060422.M Sun Apr 23 09:27:00 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060546.D Vial: 10
Acq On : 22 Apr 2006 8:33 pm Operator: SC
Sample : SSTD070 Inst : MSS
Misc : SSTD070;;;;;;;23-MS-43-15 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:26 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:30:33 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E 4/23/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	182668	40.00	mg/L	0.01
22) Naphthalene-d8	7.28	136	698398	40.00	mg/L	0.01
37) Acenaphthene-d10	9.53	164	388915	40.00	mg/L	0.00
57) Phenanthrene-d10	11.38	188	630601	40.00	mg/L	0.01
70) Chrysene-d12	15.65	240	551942	40.00	mg/L	0.02
80) Perylene-d12	18.45	264	273654	40.00	mg/L	0.02
System Monitoring Compounds						
6) 2-Fluorophenol	4.10	112	581724	97.67	mg/L	0.02
Spiked Amount 50.000			Recovery =	195.34%		
7) Phenol-d5	5.24	99	738720	98.04	mg/L	0.02
Spiked Amount 50.000			Recovery =	196.08%		
23) Nitrobenzene-d5	6.39	82	676637	100.49	mg/L	0.02
Spiked Amount 50.000			Recovery =	200.98%		
41) 2-Fluorobiphenyl	8.68	172	1211619	99.35	mg/L	0.02
Spiked Amount 50.000			Recovery =	198.70%		
61) 2,4,6-Tribromophenol	10.54	330	203253	97.34	mg/L	0.02
Spiked Amount 50.000			Recovery =	194.68%		
73) Terphenyl-d14	13.71	244	1280952	93.81	mg/L	0.02
Spiked Amount 50.000			Recovery =	187.62%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	256092m	113.97	mg/L	
3) N-Nitrosodimethylamine	2.75	42	280885m	126.82	mg/L	
4) Pyridine	2.75	79	676891m	120.56	mg/L	
5) PGMEA	4.00	43	381384	99.79	mg/L #	40
8) Aniline	5.28	93	719217	98.15	mg/L #	52
9) Phenol	5.26	94	848809	105.05	mg/L #	63
10) Bis(2-chloroethyl)ether	5.34	93	620583	97.61	mg/L #	83
11) 2-Chlorophenol	5.42	128	629286	97.20	mg/L	96
12) 1,3-Dichlorobenzene	5.58	146	744195	98.84	mg/L	99
13) 1,4-Dichlorobenzene	5.65	146	749737	98.20	mg/L	99
14) Benzyl alcohol	5.85	108	378949	101.58	mg/L #	73
15) 1,2-Dichlorobenzene	5.89	146	704980	96.82	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.02	99	363589	184.62	mg/L	99
17) 2-Methylphenol	6.00	108	574614	96.39	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.03	45	147642	97.19	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.22	70	515732	98.49	mg/L #	56
20) Hexachloroethane	6.28	117	303462	96.86	mg/L	87
21) 3- and 4-Methylphenol Coel	6.22	107	735868	97.18	mg/L #	93
24) Nitrobenzene	6.42	77	736357	97.51	mg/L #	75
25) Isophorone	6.72	82	1273695	98.92	mg/L	98
26) 2-Nitrophenol	6.82	139	327329	99.46	mg/L #	87
27) 2,4-Dimethylphenol	6.88	122	533054	98.83	mg/L	94
28) Bis(2-chloroethoxy)methane	6.99	93	666458	97.87	mg/L	87
29) 2,4-Dichlorophenol	7.13	162	529200	99.18	mg/L	99
30) 1,2,4-Trichlorobenzene	7.22	180	590755	99.71	mg/L	100
31) Benzoic acid	7.13	122	382200	98.12	mg/L #	81
32) Naphthalene	7.31	128	1762872	99.46	mg/L	100
33) 4-Chloroaniline	7.41	127	609629	120.37	mg/L	97
34) Hexachlorobutadiene	7.53	225	255605	98.77	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:30:33 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

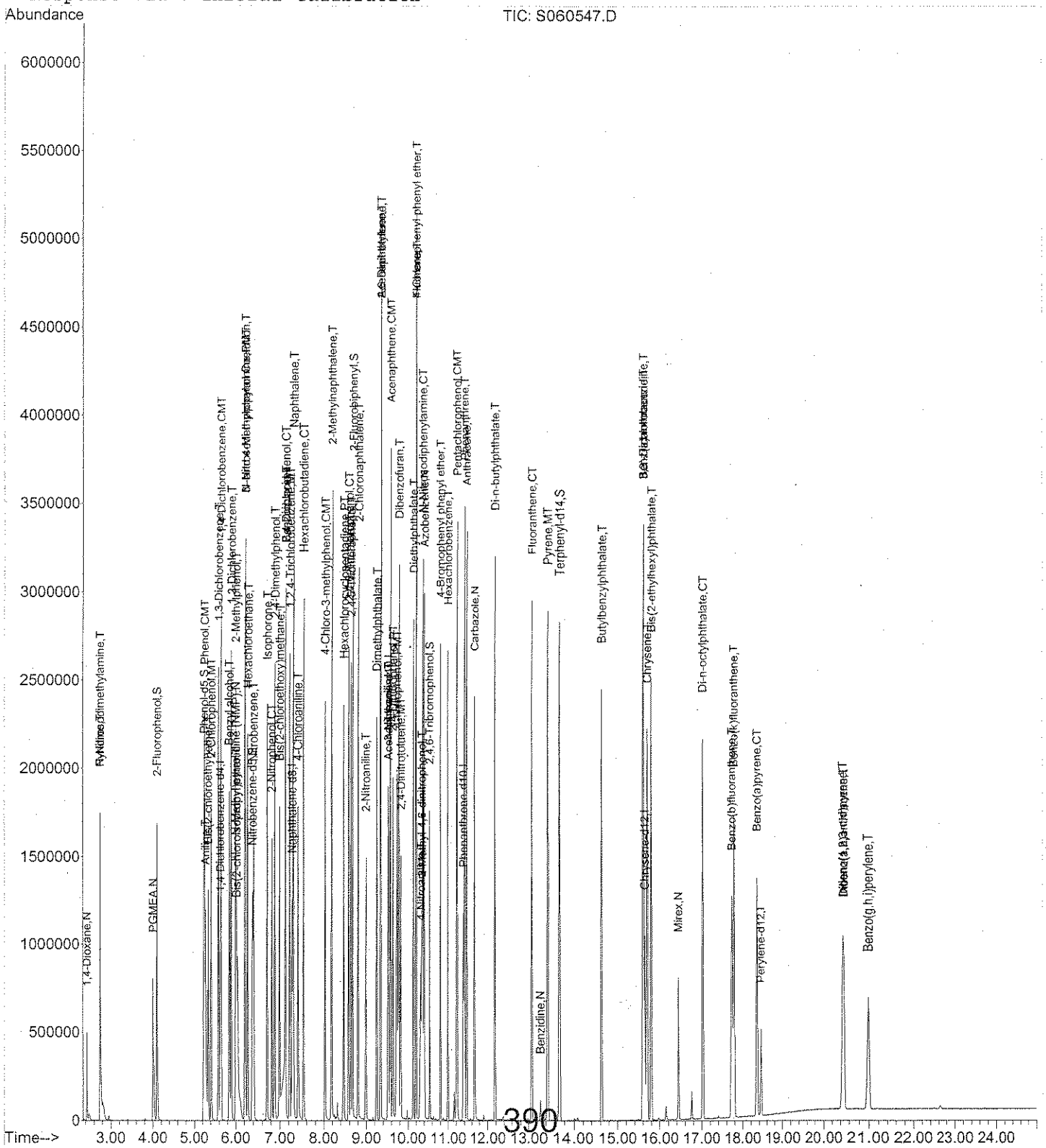
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.02	107	513878	100.80	mg/L		96
36)	2-Methylnaphthalene	8.18	142	1202794	100.03	mg/L		100
38)	Hexachlorocyclopentadiene	8.47	237	394108	105.80	mg/L		98
39)	2,4,6-Trichlorophenol	8.58	196	376557	100.22	mg/L		96
40)	2,4,5-Trichlorophenol	8.63	196	410248	98.72	mg/L		96
42)	2-Chloronaphthalene	8.81	162	1088487	99.82	mg/L		99
43)	2-Nitroaniline	8.99	65	325566	98.51	mg/L		97
44)	Dimethylphthalate	9.25	163	1189391	98.12	mg/L	#	92
45)	Acenaphthylene	9.34	152	1700420	100.76	mg/L		100
46)	2,6-Dinitrotoluene	9.34	165	306415	100.04	mg/L	#	67
47)	3-Nitroaniline	9.52	138	238727	104.36	mg/L	#	89
48)	Acenaphthene	9.58	154	978978	98.93	mg/L		99
49)	2,4-Dinitrophenol	9.64	184	354817	94.46	mg/L	#	87
50)	Dibenzofuran	9.78	168	1475706	96.85	mg/L		96
51)	4-Nitrophenol	9.74	109	318530	100.59	mg/L	#	59
52)	2,4-Dinitrotoluene	9.83	165	348311	95.56	mg/L	#	85
53)	Fluorene	10.21	166	1175415	98.14	mg/L		98
54)	Diethylphthalate	10.13	149	1185036	98.60	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.20	204	602842	97.33	mg/L		98
56)	4-Nitroaniline	10.32	138	219270	103.57	mg/L	#	78
58)	2-Methyl-4,6-dinitrophenol	10.35	198	223571	95.22	mg/L	#	61
59)	N-Nitrosodiphenylamine	10.37	169	809161	99.12	mg/L		95
60)	Azobenzene	10.40	77	1587627	114.37	mg/L	#	88
62)	4-Bromophenyl phenyl ether	10.81	248	367499	98.44	mg/L		100
63)	Hexachlorobenzene	10.99	284	393747	98.81	mg/L		98
64)	Pentachlorophenol	11.22	266	551809	98.21	mg/L		100
65)	Phenanthrene	11.41	178	1564274	98.13	mg/L		99
66)	Anthracene	11.47	178	1557554	98.23	mg/L		99
67)	Carbazole	11.68	167	1287928	106.14	mg/L		99
68)	Di-n-butylphthalate	12.19	149	1947897	98.01	mg/L	#	99
69)	Fluoranthene	13.09	202	1836540	98.69	mg/L	#	94
71)	Benzidine	13.29	184	67324	261.84	mg/L	#	92
72)	Pyrene	13.45	202	1837090	93.82	mg/L		99
74)	Butylbenzylphthalate	14.64	149	874350	101.11	mg/L		91
75)	Benz(a)anthracene	15.62	228	1634679	101.05	mg/L		99
76)	3,3'-Dichlorobenzidine	15.61	252	481450	139.94	mg/L		99
77)	Chrysene	15.71	228	1459253m	90.21	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.80	149	1184340	104.59	mg/L		99
79)	Mirex	16.44	272	157488	99.48	mg/L		96
81)	Di-n-octylphthalate	17.03	149	1850757	96.19	mg/L		100
82)	Benzo(b)fluoranthene	17.75	252	1200166	92.56	mg/L	#	94
83)	Benzo(k)fluoranthene	17.80	252	1151618m	94.99	mg/L		
84)	Benzo(a)pyrene	18.36	252	1002685	98.97	mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	20.46	276	859598	103.94	mg/L	#	85
86)	Dibenz(a,h)anthracene	20.49	278	669907	107.03	mg/L	#	86
87)	Benzo(g,h,i)perylene	21.00	276	641438	99.34	mg/L	#	77

(#) = qualifier out of range (m) = manual integration
S060547.D BA060422.M Sun Apr 23 09:33:38 2006 Page 381

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:33 2006 Quant Results File: BA060422.RES

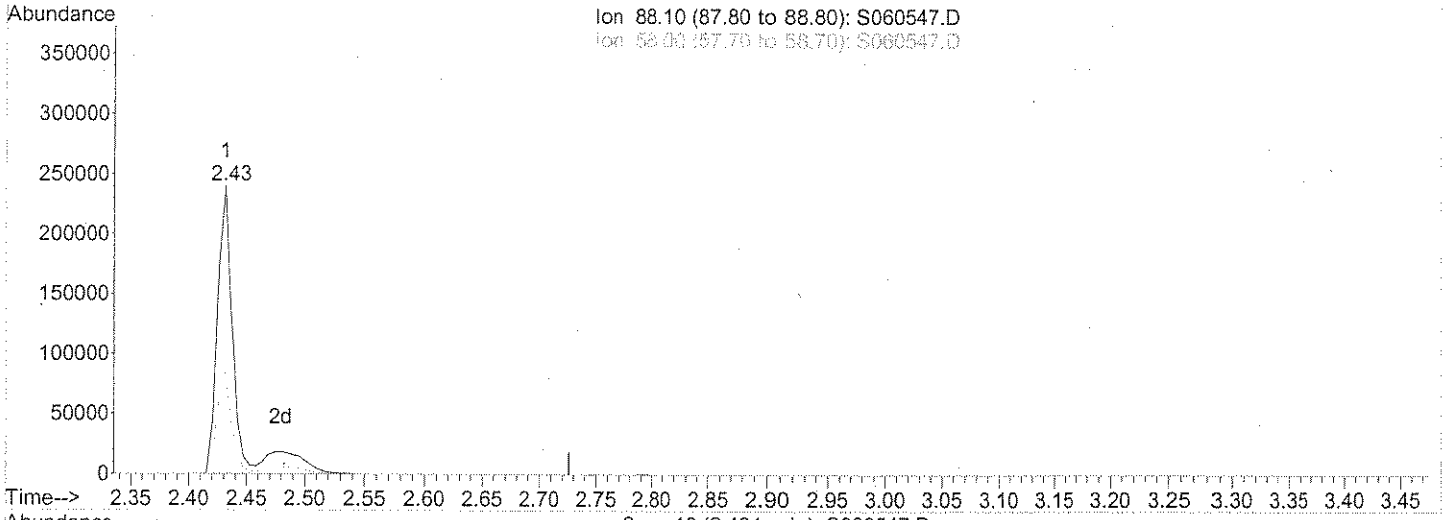
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration

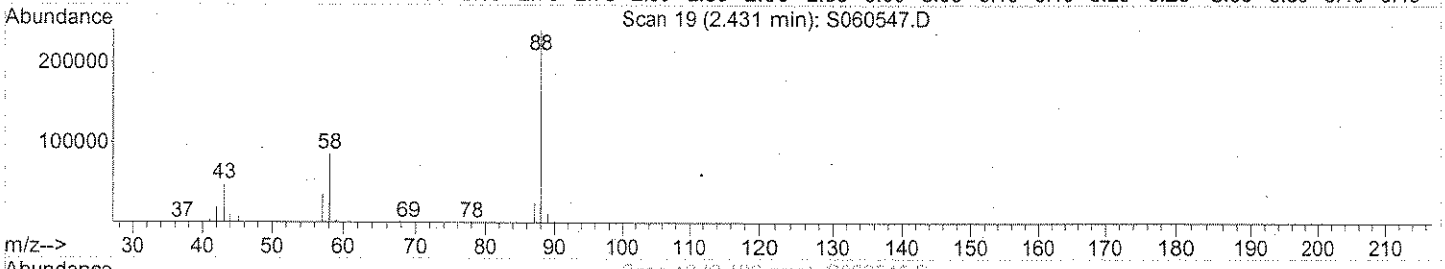


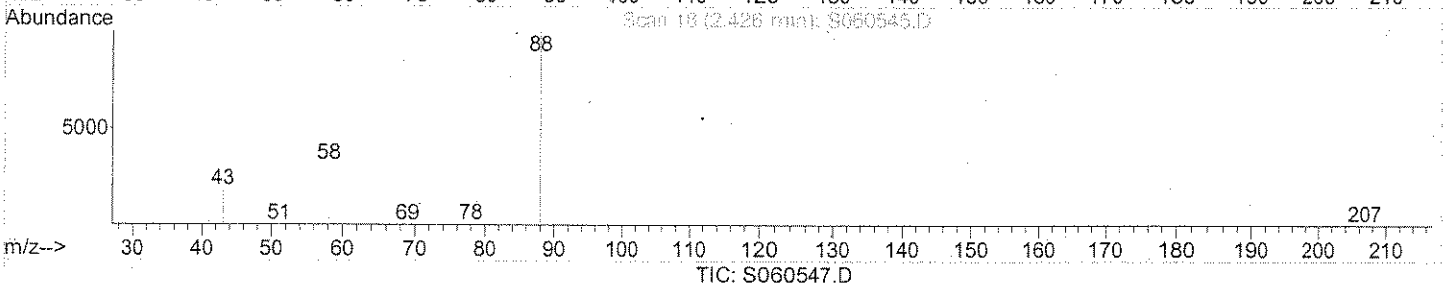
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







TIC: S060547.D

(2) 1,4-Dioxane (N)

2.43min 113.97mg/L m

response 256092

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	28.62#
0.00	0.00	0.00
0.00	0.00	0.00

Spike pwr 4/23/06

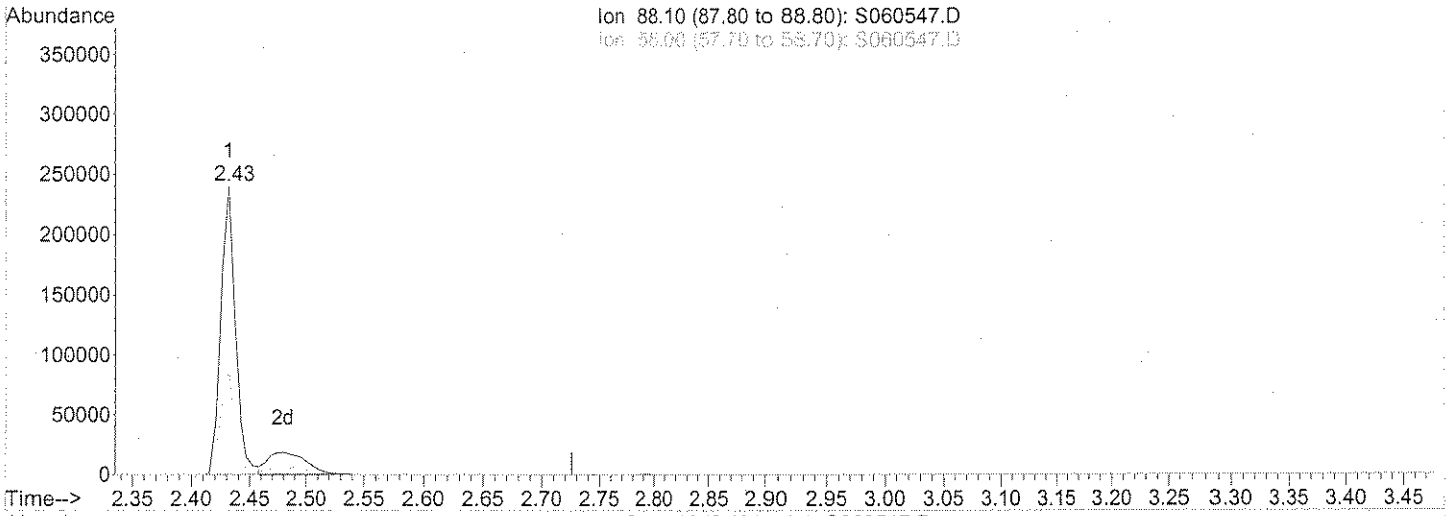
4/26/06

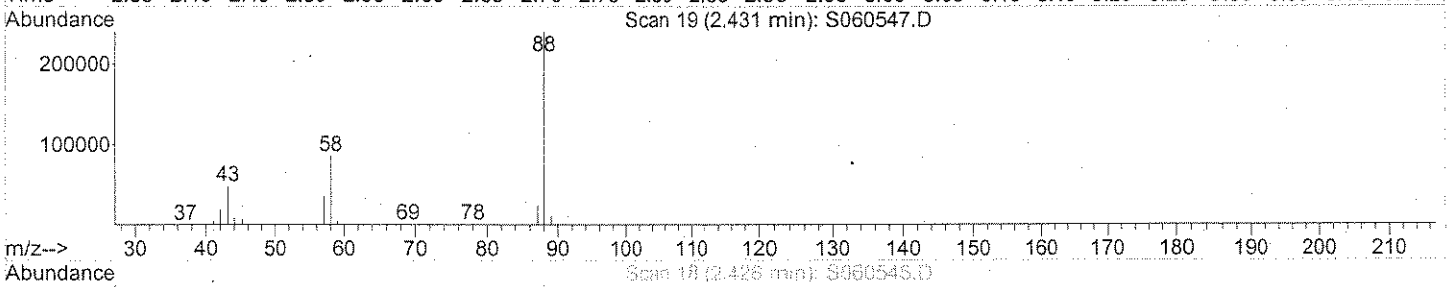
391

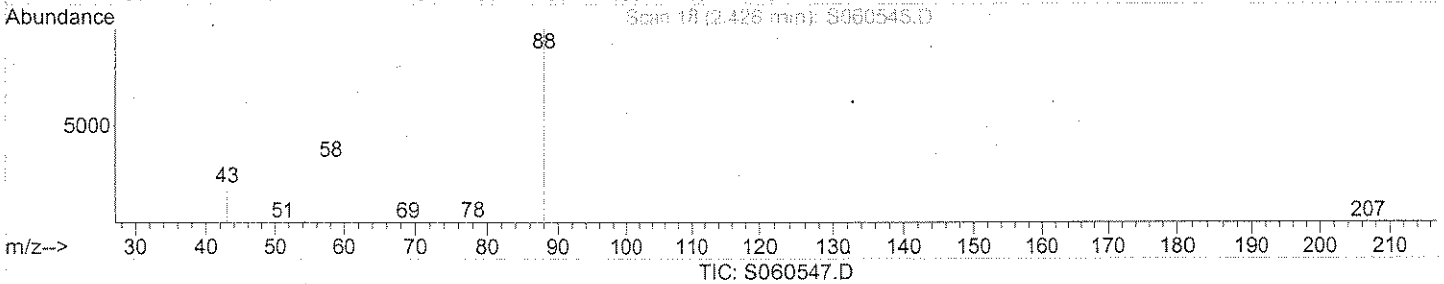
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:30 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







TIC: S060547.D

(2) 1,4-Dioxane (N)

2.43min 94.72mg/L

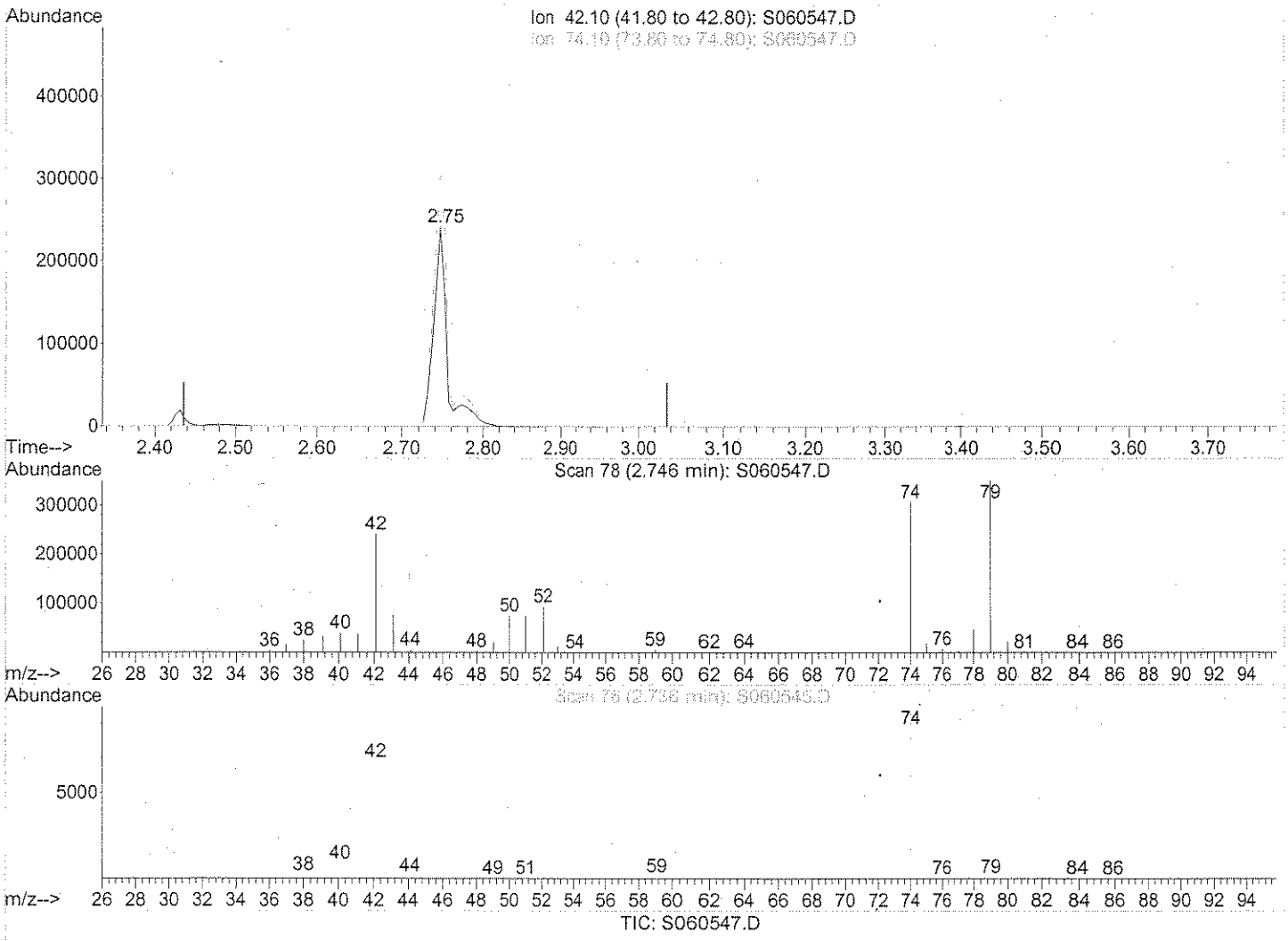
response 212836

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	34.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060547.D

(3) N-Nitrosodimethylamine (T)

2.75min 126.82mg/L m

response 280885

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	116.09
0.00	0.00	0.00
0.00	0.00	0.00

Spike Proof 4/23/06

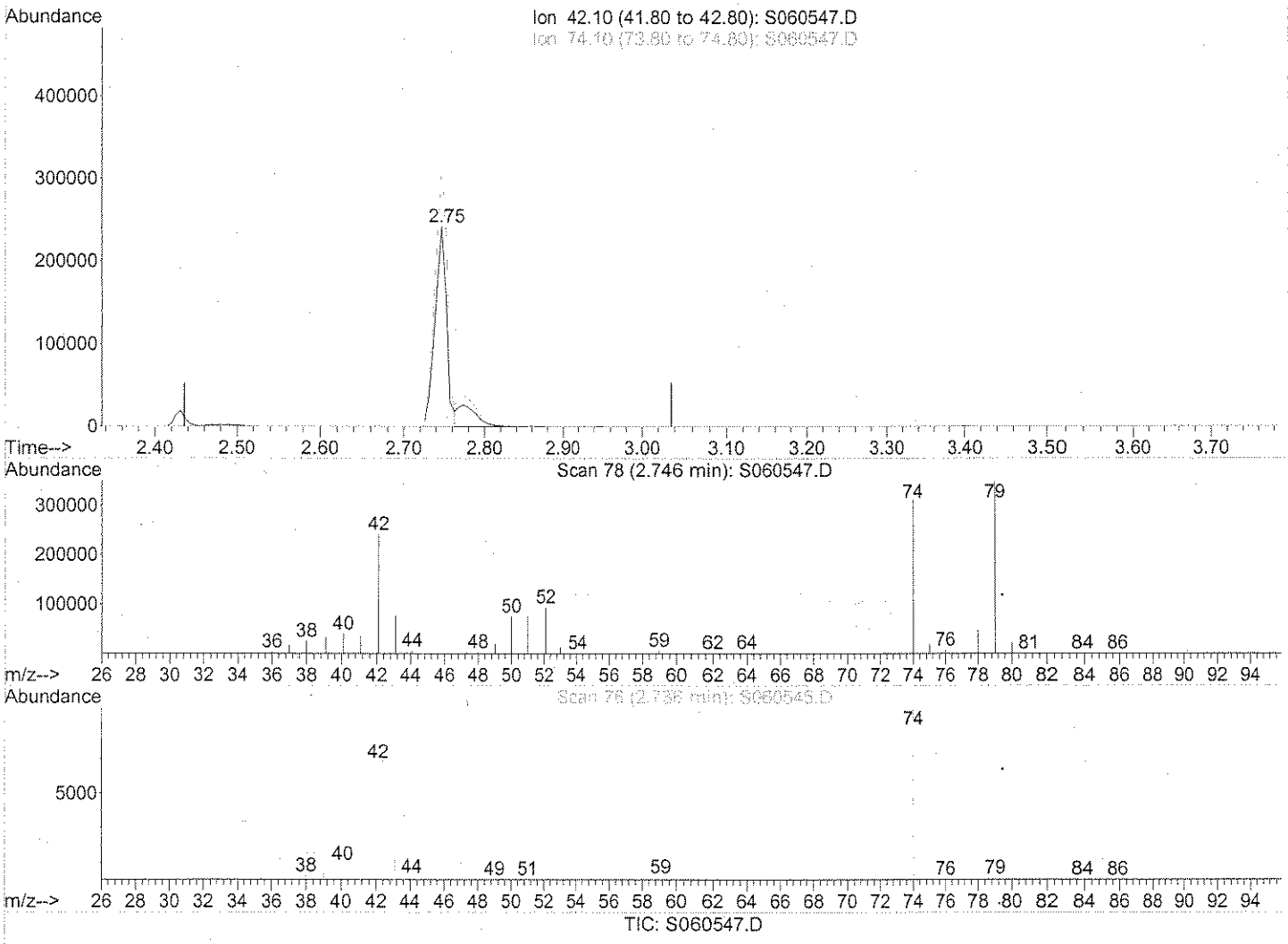
4/26/06

393

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(3) N-Nitrosodimethylamine (T)

2.75min 107.94mg/L

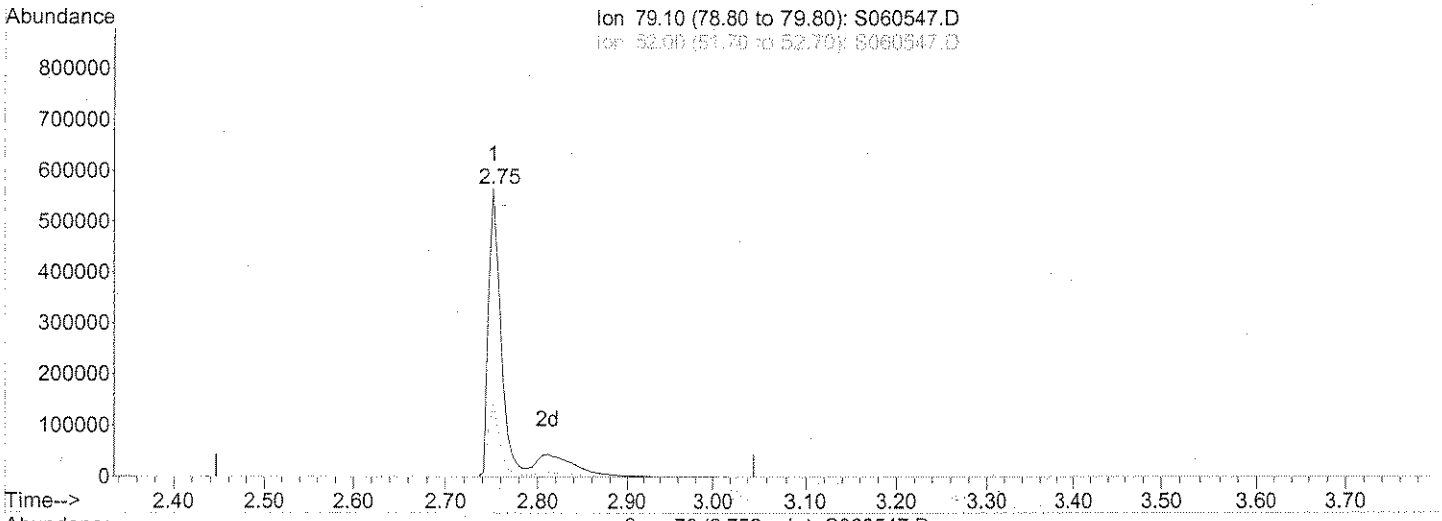
response 239083

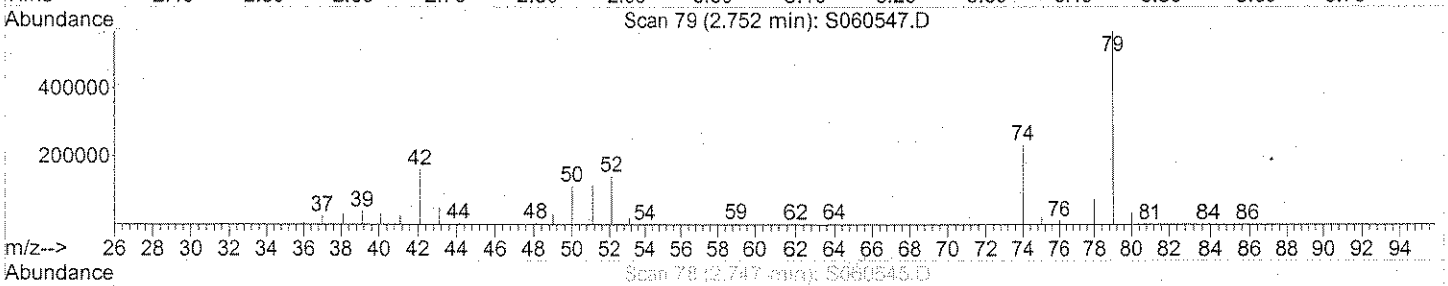
Ion	Exp%	Act%
42.10	100	100
74.10	115.50	136.39
0.00	0.00	0.00
0.00	0.00	0.00

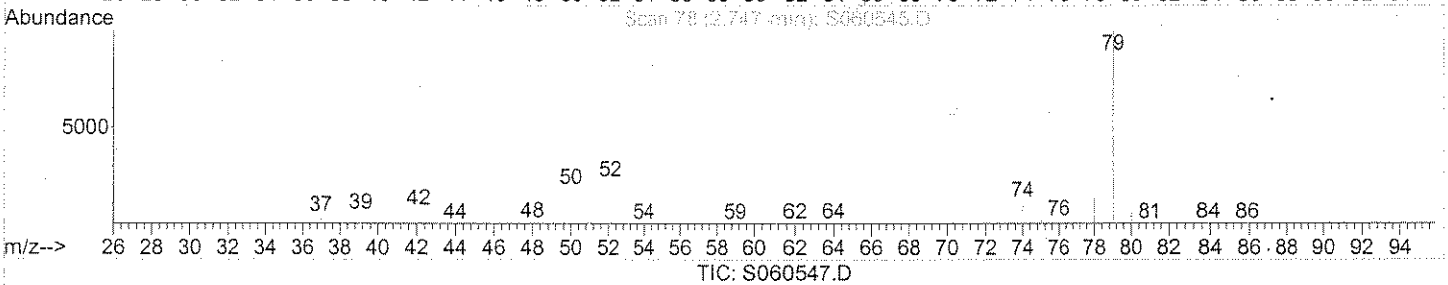
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







TIC: S060547.D

(4) Pyridine (T)

2.75min 120.56mg/L m

response 676891

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	18.94#
0.00	0.00	0.00
0.00	0.00	0.00

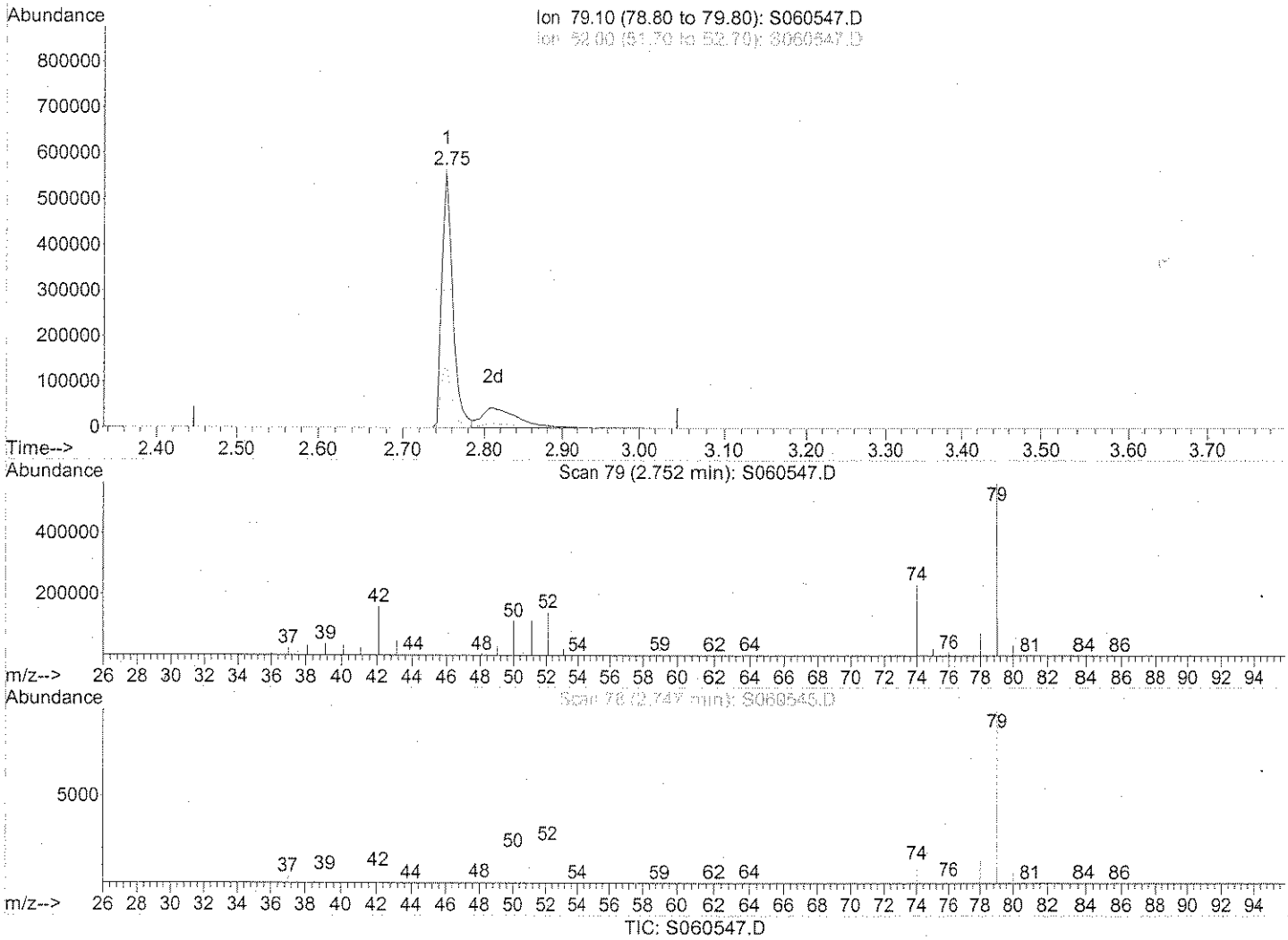
Split peak 4/23/06

4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(4) Pyridine (T)

2.75min 96.02mg/L

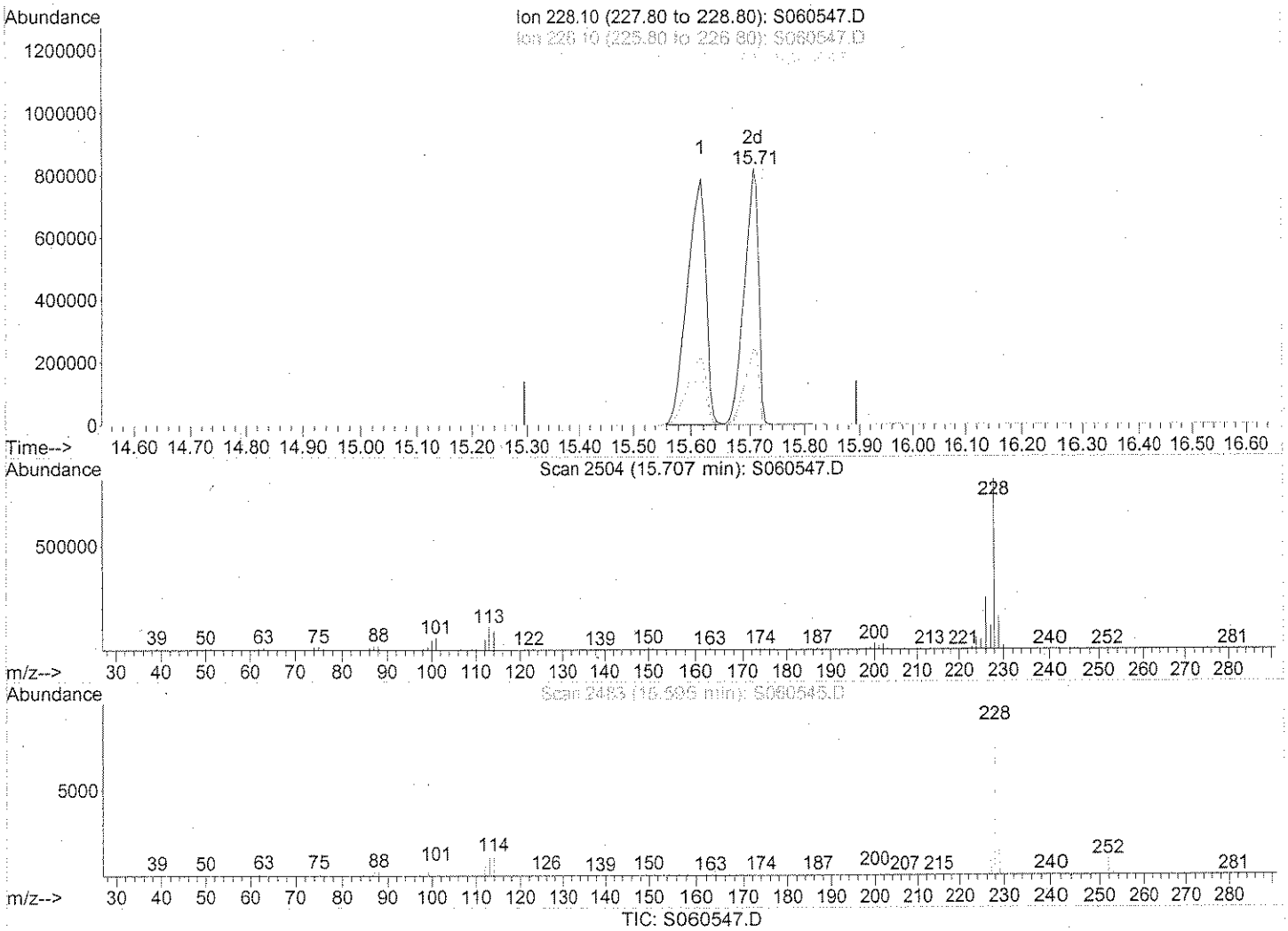
response 539104

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	23.78#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:33 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.71min 90.21mg/L m

response 1459253

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	30.99
229.10	19.40	21.78
0.00	0.00	0.00

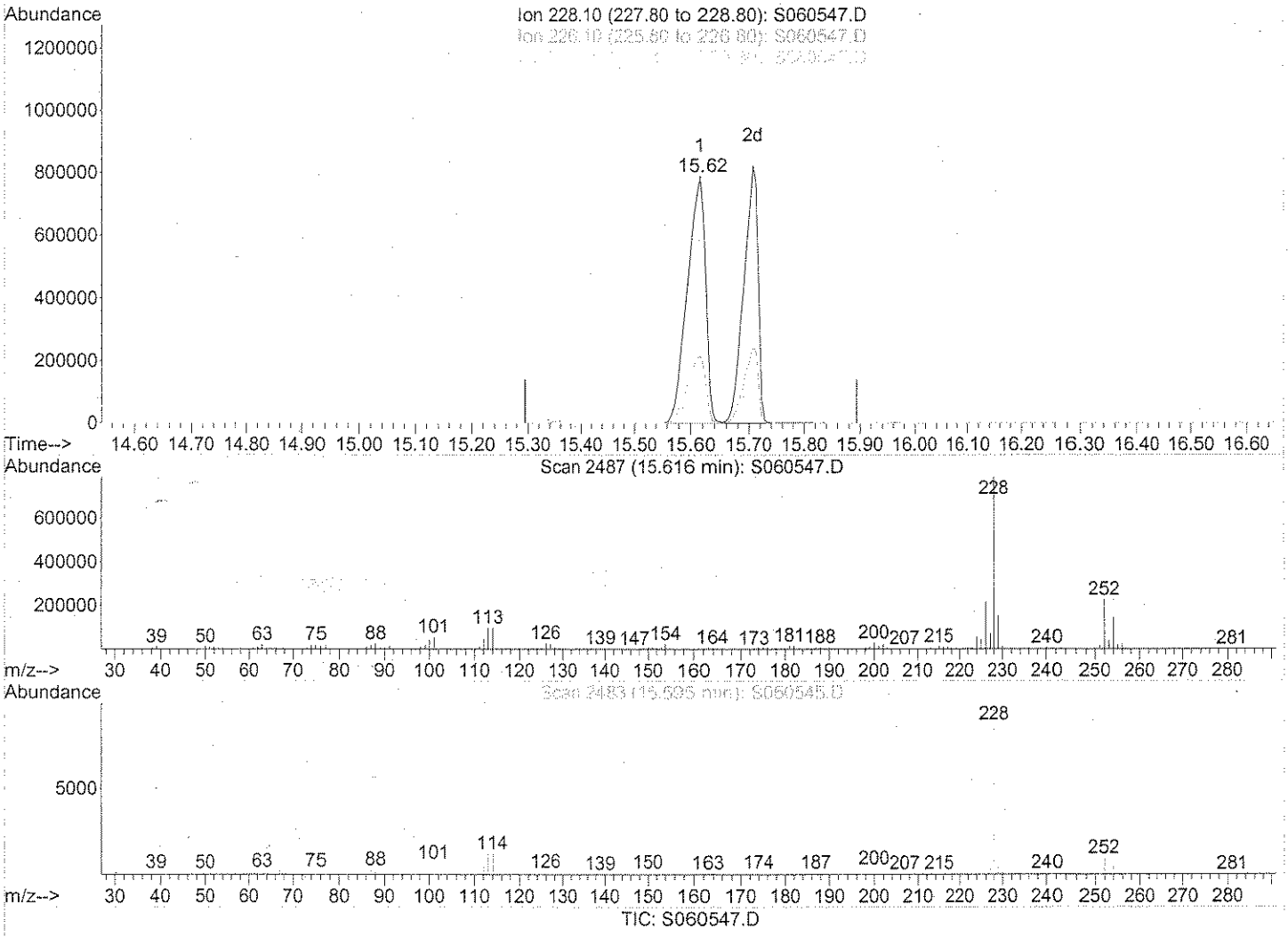
4/23/06

4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.62min 101.05mg/L

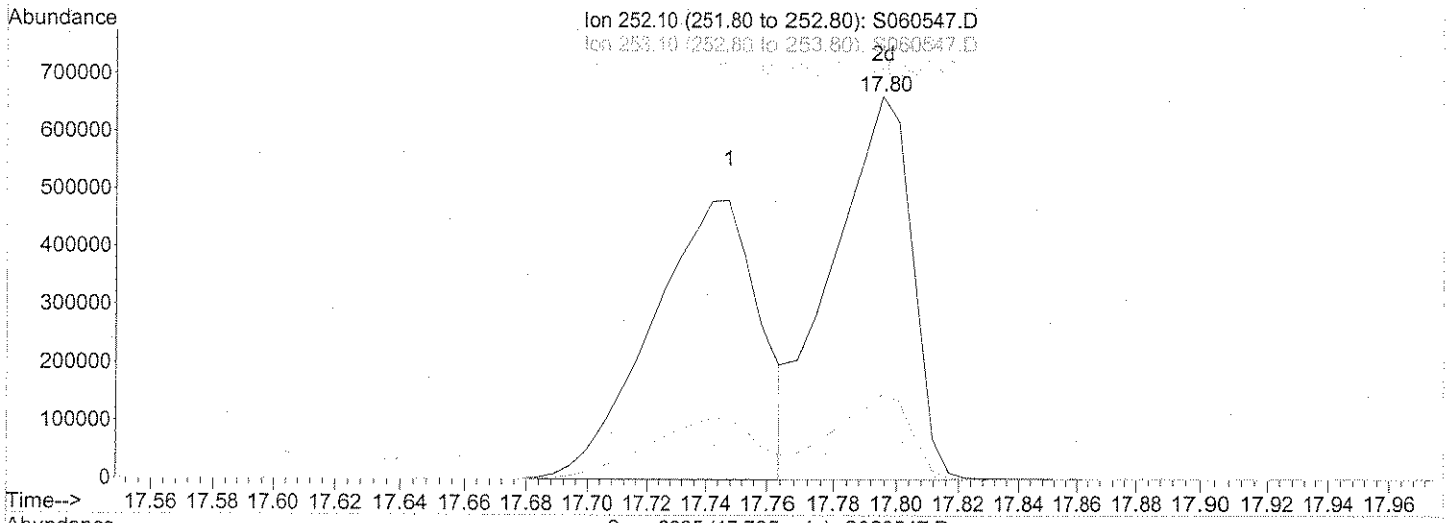
response 1634679

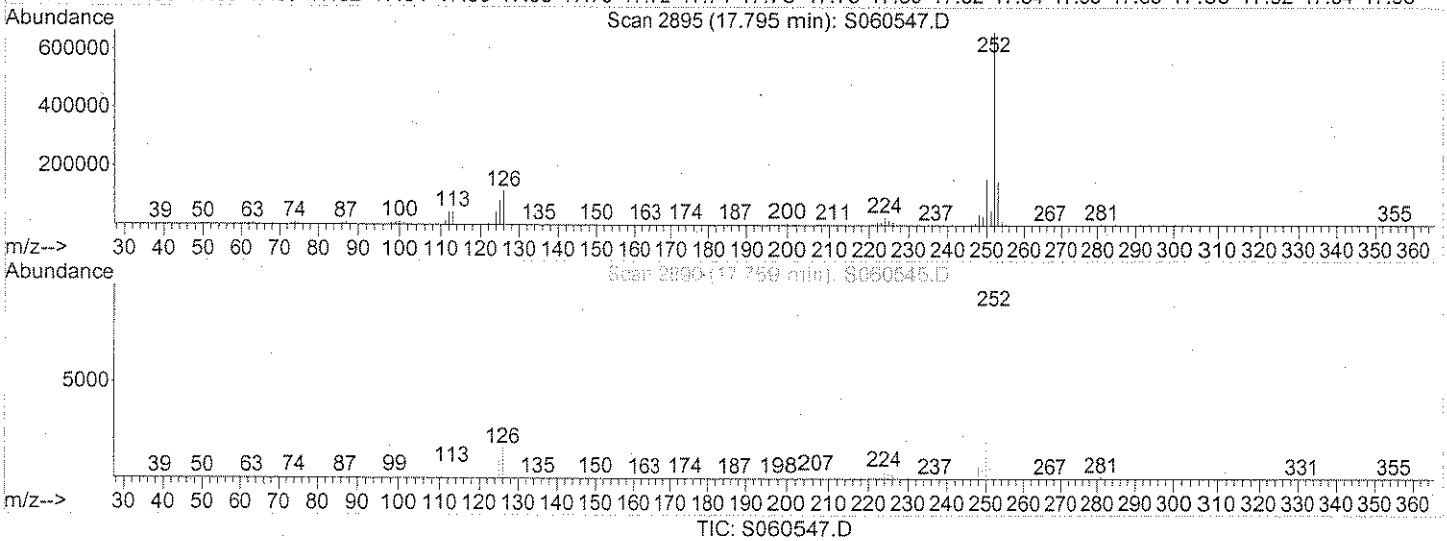
Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.66
229.10	19.40	19.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:33 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration





TIC: S060547.D

(83) Benzo(k)fluoranthene (T)

17.80min 94.99mg/L m

response 1151618

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	23.25
125.10	17.70	12.93#
0.00	0.00	0.00

Wrong Pos 4/23/06

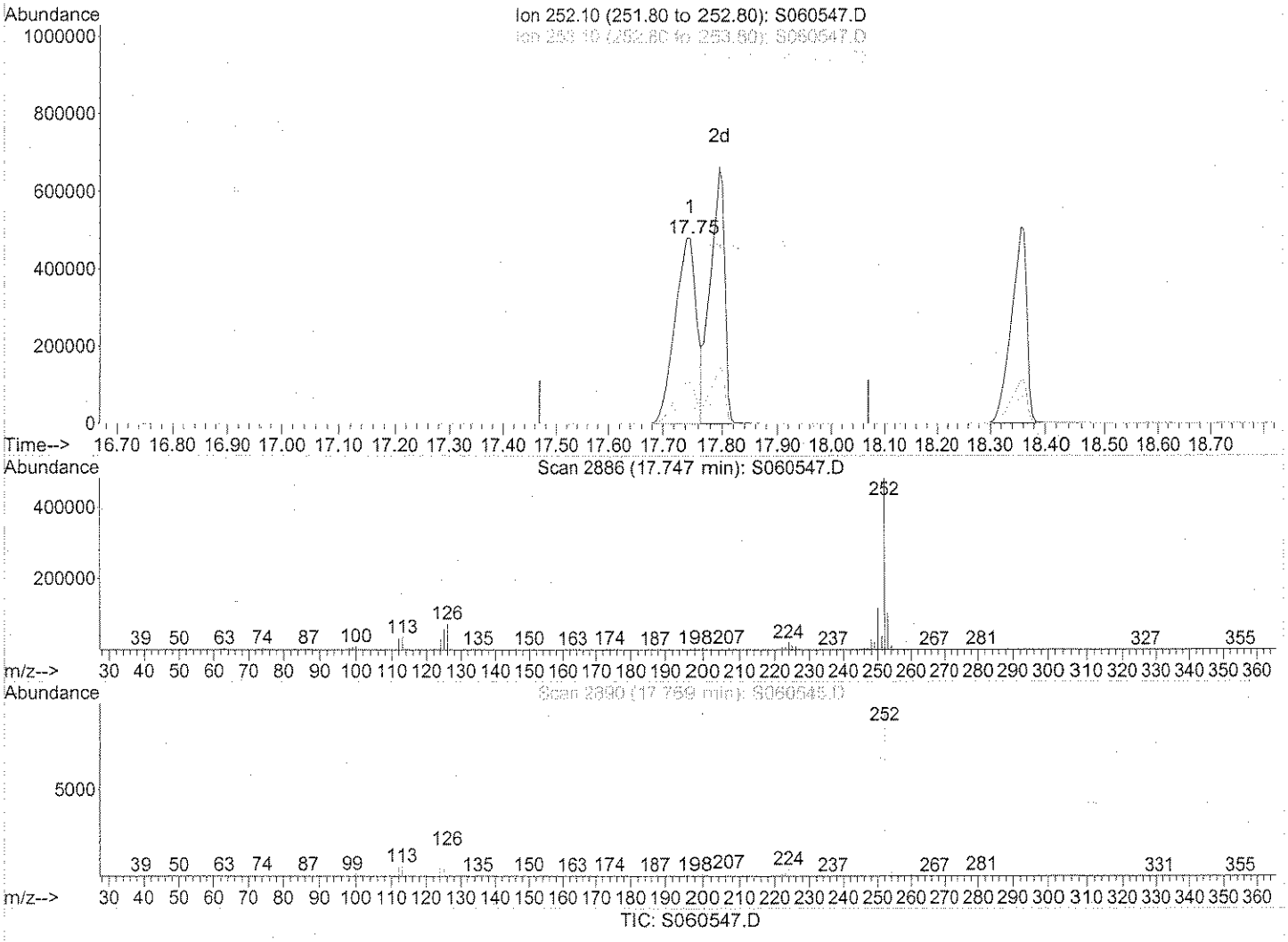
4/26/06

399

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:33 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060547.D

(83) Benzo(k)fluoranthene (T)

17.75min 98.99mg/L

response 1200166

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	22.31
125.10	17.70	12.40#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:30:33 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	182668	40.00	mg/L	0.01
22) Naphthalene-d8	7.28	136	698398	40.00	mg/L	0.01
37) Acenaphthene-d10	9.53	164	388915	40.00	mg/L	0.00
57) Phenanthrene-d10	11.38	188	630601	40.00	mg/L	0.01
70) Chrysene-d12	15.65	240	551942	40.00	mg/L	0.02
80) Perylene-d12	18.45	264	273654	40.00	mg/L	0.02
System Monitoring Compounds						
6) 2-Fluorophenol	4.10	112	581724	97.67	mg/L	0.02
Spiked Amount 50.000			Recovery = 195.34%			
7) Phenol-d5	5.24	99	738720	98.04	mg/L	0.02
Spiked Amount 50.000			Recovery = 196.08%			
23) Nitrobenzene-d5	6.39	82	676637	100.49	mg/L	0.02
Spiked Amount 50.000			Recovery = 200.98%			
41) 2-Fluorobiphenyl	8.68	172	1211619	99.35	mg/L	0.02
Spiked Amount 50.000			Recovery = 198.70%			
61) 2,4,6-Tribromophenol	10.54	330	203253	97.34	mg/L	0.02
Spiked Amount 50.000			Recovery = 194.68%			
73) Terphenyl-d14	13.71	244	1280952	93.81	mg/L	0.02
Spiked Amount 50.000			Recovery = 187.62%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	212836	94.72	mg/L #	65
3) N-Nitrosodimethylamine	2.75	42	239083	107.94	mg/L	81
4) Pyridine	2.75	79	539104	96.02	mg/L #	50
5) PGMEA	4.00	43	381384	99.79	mg/L #	40
8) Aniline	5.28	93	719217	98.15	mg/L #	52
9) Phenol	5.26	94	848809	105.05	mg/L #	63
10) Bis(2-chloroethyl)ether	5.34	93	620583	97.61	mg/L #	83
11) 2-Chlorophenol	5.42	128	629286	97.20	mg/L	96
12) 1,3-Dichlorobenzene	5.58	146	744195	98.84	mg/L	99
13) 1,4-Dichlorobenzene	5.65	146	749737	98.20	mg/L	99
14) Benzyl alcohol	5.85	108	378949	101.58	mg/L #	73
15) 1,2-Dichlorobenzene	5.89	146	704980	96.82	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.02	99	363589	184.62	mg/L	99
17) 2-Methylphenol	6.00	108	574614	96.39	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.03	45	147642	97.19	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.22	70	515732	98.49	mg/L #	56
20) Hexachloroethane	6.28	117	303462	96.86	mg/L	87
21) 3- and 4-Methylphenol Coel	6.22	107	735868	97.18	mg/L #	93
24) Nitrobenzene	6.42	77	736357	97.51	mg/L #	75
25) Isophorone	6.72	82	1273695	98.92	mg/L	98
26) 2-Nitrophenol	6.82	139	327329	99.46	mg/L #	87
27) 2,4-Dimethylphenol	6.88	122	533054	98.83	mg/L	94
28) Bis(2-chloroethoxy)methane	6.99	93	666458	97.87	mg/L	87
29) 2,4-Dichlorophenol	7.13	162	529200	99.18	mg/L	99
30) 1,2,4-Trichlorobenzene	7.22	180	590755	99.71	mg/L	100
31) Benzoic acid	7.13	122	382200	98.12	mg/L #	81
32) Naphthalene	7.31	128	1762872	99.46	mg/L	100
33) 4-Chloroaniline	7.41	127	609629	120.37	mg/L	97
34) Hexachlorobutadiene	7.53	225	355605	98.77	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:30:33 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

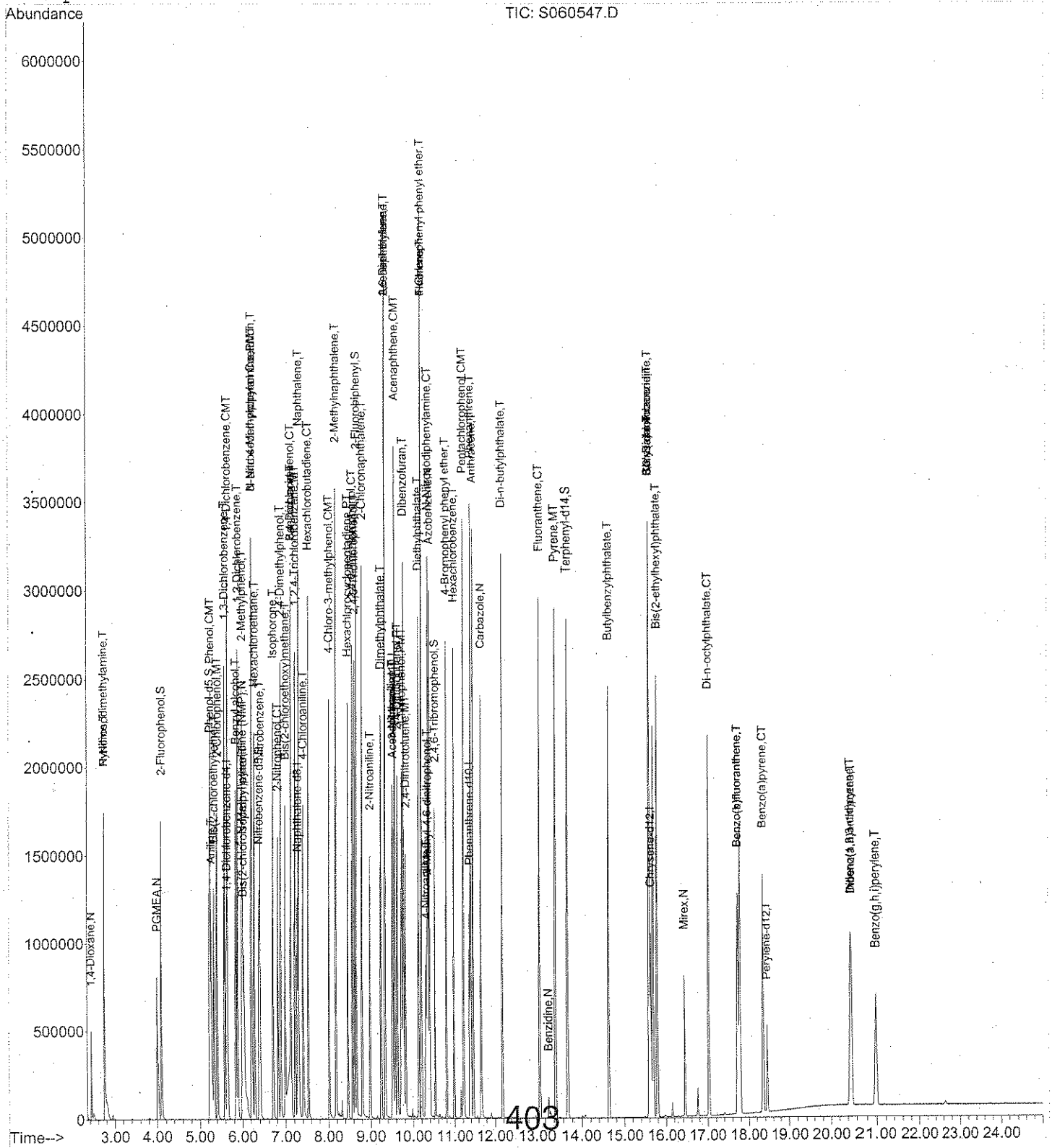
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.02	107	513878	100.80	mg/L		96
36)	2-Methylnaphthalene	8.18	142	1202794	100.03	mg/L		100
38)	Hexachlorocyclopentadiene	8.47	237	394108	105.80	mg/L		98
39)	2,4,6-Trichlorophenol	8.58	196	376557	100.22	mg/L		96
40)	2,4,5-Trichlorophenol	8.63	196	410248	98.72	mg/L		96
42)	2-Chloronaphthalene	8.81	162	1088487	99.82	mg/L		99
43)	2-Nitroaniline	8.99	65	325566	98.51	mg/L		97
44)	Dimethylphthalate	9.25	163	1189391	98.12	mg/L	#	92
45)	Acenaphthylene	9.34	152	1700420	100.76	mg/L		100
46)	2,6-Dinitrotoluene	9.34	165	306415	100.04	mg/L	#	67
47)	3-Nitroaniline	9.52	138	238727	104.36	mg/L	#	89
48)	Acenaphthene	9.58	154	978978	98.93	mg/L		99
49)	2,4-Dinitrophenol	9.64	184	354817	94.46	mg/L	#	87
50)	Dibenzofuran	9.78	168	1475706	96.85	mg/L		96
51)	4-Nitrophenol	9.74	109	318530	100.59	mg/L	#	59
52)	2,4-Dinitrotoluene	9.83	165	348311	95.56	mg/L	#	85
53)	Fluorene	10.21	166	1175415	98.14	mg/L		98
54)	Diethylphthalate	10.13	149	1185036	98.60	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.20	204	602842	97.33	mg/L		98
56)	4-Nitroaniline	10.32	138	219270	103.57	mg/L	#	78
58)	2-Methyl-4,6-dinitrophenol	10.35	198	223571	95.22	mg/L	#	61
59)	N-Nitrosodiphenylamine	10.37	169	809161	99.12	mg/L		95
60)	Azobenzene	10.40	77	1587627	114.37	mg/L	#	88
62)	4-Bromophenyl phenyl ether	10.81	248	367499	98.44	mg/L		100
63)	Hexachlorobenzene	10.99	284	393747	98.81	mg/L		98
64)	Pentachlorophenol	11.22	266	551809	98.21	mg/L		100
65)	Phenanthrene	11.41	178	1564274	98.13	mg/L		99
66)	Anthracene	11.47	178	1557554	98.23	mg/L		99
67)	Carbazole	11.68	167	1287928	106.14	mg/L		99
68)	Di-n-butylphthalate	12.19	149	1947897	98.01	mg/L	#	99
69)	Fluoranthene	13.09	202	1836540	98.69	mg/L	#	94
71)	Benzidine	13.29	184	67324	261.84	mg/L	#	92
72)	Pyrene	13.45	202	1837090	93.82	mg/L		99
74)	Butylbenzylphthalate	14.64	149	874350	101.11	mg/L		91
75)	Benz(a)anthracene	15.62	228	1634679	101.05	mg/L		99
76)	3,3'-Dichlorobenzidine	15.61	252	481450	139.94	mg/L		99
77)	Chrysene	15.62	228	1634679	101.05	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	15.80	149	1184340	104.59	mg/L		99
79)	Mirex	16.44	272	157488	99.48	mg/L		96
81)	Di-n-octylphthalate	17.03	149	1850757	96.19	mg/L		100
82)	Benzo(b)fluoranthene	17.75	252	1200166	92.56	mg/L	#	94
83)	Benzo(k)fluoranthene	17.75	252	1200166	98.99	mg/L	#	95
84)	Benzo(a)pyrene	18.36	252	1002685	98.97	mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	20.46	276	859598	103.94	mg/L	#	85
86)	Dibenz(a,h)anthracene	20.49	278	669907	107.03	mg/L	#	86
87)	Benzo(g,h,i)perylene	21.00	276	641438	99.34	mg/L	#	77

(#) = qualifier out of range (m) = manual integration
S060547.D BA060422.M Sun Apr 23 09:30:37 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060547.D Vial: 11
Acq On : 22 Apr 2006 9:07 pm Operator: SC
Sample : SSTD100 Inst : MSS
Misc : SSTD100;;;;;;;23-MS-43-16 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:30 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration

Ev. 4/23/06

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00
2	N	1,4-Dioxane	0.543	0.572	-5.3	112	0.00
3	T	N-Nitrosodimethylamine	0.539	0.578	-7.2	115	0.00
4	T	Pyridine	1.449	1.265	12.7	97	0.00
5	N	PGMEA	0.781	0.702	10.1	100	0.00
6	S	2-Fluorophenol	1.199	1.174	2.1	107	0.00
7	S	Phenol-d5	1.537	1.434	6.7	103	0.00
8	T	Aniline	1.513	1.276	15.7	95	0.00
9	CMT	Phenol	1.695	1.766	-4.2#	119	0.00
10	T	Bis(2-chloroethyl)ether	1.330	1.372	-3.2	117	0.00
11	MT	2-Chlorophenol	1.315	1.354	-3.0	114	0.00
12	T	1,3-Dichlorobenzene	1.573	1.589	-1.0	115	0.00
13	CMT	1,4-Dichlorobenzene	1.608	1.626	-1.1#	116	0.00
14	T	Benzyl alcohol	0.756	0.915	-21.0	133	0.00
15	T	1,2-Dichlorobenzene	1.518	1.487	2.0	111	0.00
16	N	N-Methyl pyrrolidine (NMP)	0.794	0.740	6.8	100	0.05
17	T	2-Methylphenol	1.229	1.165	5.2	106	0.00
18	T	Bis(2-chloroisopropyl)ether	0.312	0.421	-34.9#	151#	0.00
19	PMT	N-Nitrosodi-n-propylamine	1.073	1.042	2.9	108	0.00
20	T	Hexachloroethane	0.641	0.668	-4.2	116	0.00
21	T	3- and 4-Methylphenol Coelu	0.768	0.774	-0.8	111	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00
23	S	Nitrobenzene-d5	0.358	0.423	-18.2	129	0.00
24	T	Nitrobenzene	0.400	0.419	-4.7	114	0.00
25	T	Isophorone	0.677	0.607	10.3	97	0.00
26	CT	2-Nitrophenol	0.176	0.191	-8.5#	120	0.00
27	T	2,4-Dimethylphenol	0.286	0.281	1.7	107	0.00
28	T	Bis(2-chloroethoxy)methane	0.361	0.426	-18.0	129	0.00
29	CT	2,4-Dichlorophenol	0.283	0.286	-1.1#	111	0.00
30	MT	1,2,4-Trichlorobenzene	0.326	0.332	-1.8	116	0.00
31	T	Benzoic acid	0.178	0.206	-15.7	109	0.01
32	T	Naphthalene	0.979	1.017	-3.9	118	0.00
33	T	4-Chloroaniline	0.300	0.345	-15.0	141	0.00
34	CT	Hexachlorobutadiene	0.198	0.205	-3.5#	118	0.00
35	CMT	4-Chloro-3-methylphenol	0.273	0.283	-3.7#	115	0.00
36	T	2-Methylnaphthalene	0.651	0.701	-7.7	120	0.00
37	I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00
38	PT	Hexachlorocyclopentadiene	0.366	0.275	24.9	86	0.00
39	CT	2,4,6-Trichlorophenol	0.363	0.366	-0.8#	114	0.00
40	T	2,4,5-Trichlorophenol	0.396	0.408	-3.0	115	0.00
41	S	2-Fluorobiphenyl	1.212	1.335	-10.1	128	0.00
42	T	2-Chloronaphthalene	1.069	1.119	-4.7	120	0.00
43	T	2-Nitroaniline	0.313	0.341	-8.9	120	0.00
44	T	Dimethylphthalate	1.166	1.248	-7.0	120	0.00
45	T	Acenaphthylene	1.653	1.566	5.3	108	0.00
46	T	2,6-Dinitrotoluene	0.287	0.312	-8.7	119	0.00
47	T	3-Nitroaniline	0.219	0.266	-21.5	136	0.00
48	CMT	Acenaphthene	0.982	1.030	-4.9#	121	0.00

404

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	PT	2,4-Dinitrophenol	0.177	0.091	48.6#	57	0.00
50	T	Dibenzofuran	1.499	1.535	-2.4	118	0.00
51	PMT	4-Nitrophenol	0.153	0.082	46.4#	60	0.00
52	MT	2,4-Dinitrotoluene	0.345	0.376	-9.0	121	0.00
53	T	Fluorene	1.174	1.267	-7.9	123	0.00
54	T	Diethylphthalate	1.158	1.248	-7.8	121	0.00
55	T	4-Chlorophenyl phenyl ether	0.602	0.643	-6.8	121	0.00
56	T	4-Nitroaniline	0.212	0.239	-12.7	132	0.00
57	I	Phenanthrene-d10	1.000	1.000	0.0	127	0.00
58	T	2-Methyl-4,6-dinitrophenol	0.138	0.140	-1.4	119	0.00
59	CT	N-Nitrosodiphenylamine	0.483	0.454	6.0#	111	0.00
60	N	Azobenzene	0.847	0.866	-2.2	125	0.00
61	S	2,4,6-Tribromophenol	0.123	0.110	10.6	105	0.00
62	T	4-Bromophenyl phenyl ether	0.221	0.231	-4.5	123	0.00
63	T	Hexachlorobenzene	0.240	0.240	0.0	120	0.00
64	CMT	Pentachlorophenol	0.166	0.089	46.4#	63	0.00
65	T	Phenanthrene	0.977	1.048	-7.3	131	0.00
66	T	Anthracene	0.947	1.003	-5.9	126	0.00
67	N	Carbazole	0.746	0.783	-5.0	129	0.00
68	T	Di-n-butylphthalate	1.123	1.264	-12.6	127	0.00
69	CT	Fluoranthene	1.093	1.164	-6.5#	125	0.00
70	I	Chrysene-d12	1.000	1.000	0.0	126	0.00
71	N	Benzidine	0.022	0.016	27.3#	110	0.00
72	MT	Pyrene	1.334	1.475	-10.6	130	0.00
73	S	Terphenyl-d14	0.914	1.081	-18.3	137	0.00
74	T	Butylbenzylphthalate	0.577	0.667	-15.6	134	0.00
75	T	Benz(a)anthracene	1.097	1.187	-8.2	127	0.00
76	T	3,3'-Dichlorobenzidine	0.220	0.306	-39.1#	154#	0.00
77	T	Chrysene	1.028	1.052	-2.3	123	0.09
78	T	Bis(2-ethylhexyl)phthalate	0.771	0.929	-20.5	142	0.00
79	N	Mirex	0.212	0.217	-2.4	119	0.00
80	I	Perylene-d12	1.000	1.000	0.0	149	0.00
81	CT	Di-n-octylphthalate	2.435	2.682	-10.1#	142	0.00
82	T	Benzo(b)fluoranthene	1.726	1.615	6.4	127	0.00
83	T	Benzo(k)fluoranthene	1.657	1.494	9.8	126	0.00
84	CT	Benzo(a)pyrene	1.386	1.235	10.9#	124	0.00
85	T	Indeno(1,2,3-c,d)pyrene	1.133	1.033	8.8	128	0.00
86	T	Dibenz(a,h)anthracene	0.859	0.822	4.3	134	0.00
87	T	Benzo(g,h,i)perylene	0.905	0.781	13.7	124	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:30:39 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	193480	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	757404	40.00	mg/L	0.00
37) Acenaphthene-d10	9.53	164	431681	40.00	mg/L	0.00
57) Phenanthrene-d10	11.37	188	749630	40.00	mg/L	0.00
70) Chrysene-d12	15.63	240	611531	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	285906	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.08	112	283928	48.95	mg/L	0.00
Spiked Amount 50.000			Recovery = 97.90%			
7) Phenol-d5	5.22	99	346926	46.67	mg/L	0.00
Spiked Amount 50.000			Recovery = 93.34%			
23) Nitrobenzene-d5	6.38	82	400007	59.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 118.00%			
41) 2-Fluorobiphenyl	8.67	172	720575	55.08	mg/L	0.00
Spiked Amount 50.000			Recovery = 110.16%			
61) 2,4,6-Tribromophenol	10.52	330	103026	44.81	mg/L	0.00
Spiked Amount 50.000			Recovery = 89.62%			
73) Terphenyl-d14	13.69	244	826395	59.17	mg/L	0.00
Spiked Amount 50.000			Recovery = 118.34%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	138280m	52.61	mg/L	
3) N-Nitrosodimethylamine	2.74	42	139853m	53.65	mg/L	
4) Pyridine	2.75	79	305862m	43.64	mg/L	
5) PGMEA	4.00	43	169696	44.91	mg/L #	39
8) Aniline	5.27	93	308553	42.15	mg/L	98
9) Phenol	5.24	94	427151	52.11	mg/L #	82
10) Bis(2-chloroethyl)ether	5.33	93	331753	51.55	mg/L #	81
11) 2-Chlorophenol	5.41	128	327363	51.47	mg/L	98
12) 1,3-Dichlorobenzene	5.58	146	384324	50.52	mg/L	99
13) 1,4-Dichlorobenzene	5.64	146	393263	50.56	mg/L	99
14) Benzyl alcohol	5.83	108	221254	60.50	mg/L #	74
15) 1,2-Dichlorobenzene	5.89	146	359709	48.98	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.01	99	178918	46.57	mg/L	99
17) 2-Methylphenol	6.01	108	281796	47.41	mg/L	97
18) Bis(2-chloroisopropyl)ethe	6.02	45	101876	67.48	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.21	70	251961	48.54	mg/L #	53
20) Hexachloroethane	6.28	117	161606	52.13	mg/L	88
21) 3- and 4-Methylphenol Coel	6.19	107	374252	100.70	mg/L #	94
24) Nitrobenzene	6.40	77	396357	52.28	mg/L #	75
25) Isophorone	6.69	82	574530	44.84	mg/L	98
26) 2-Nitrophenol	6.81	139	181083	54.46	mg/L #	86
27) 2,4-Dimethylphenol	6.86	122	265819	49.10	mg/L	92
28) Bis(2-chloroethoxy)methane	6.98	93	402906	58.97	mg/L	86
29) 2,4-Dichlorophenol	7.11	162	270718	50.50	mg/L	99
30) 1,2,4-Trichlorobenzene	7.21	180	314749	50.94	mg/L	100
31) Benzoic acid	7.07	122	195262	47.81	mg/L #	82
32) Naphthalene	7.30	128	962810	51.96	mg/L	99
33) 4-Chloroaniline	7.40	127	326513	57.42	mg/L	95
34) Hexachlorobutadiene	7.52	225	284367	51.73	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:30:39 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

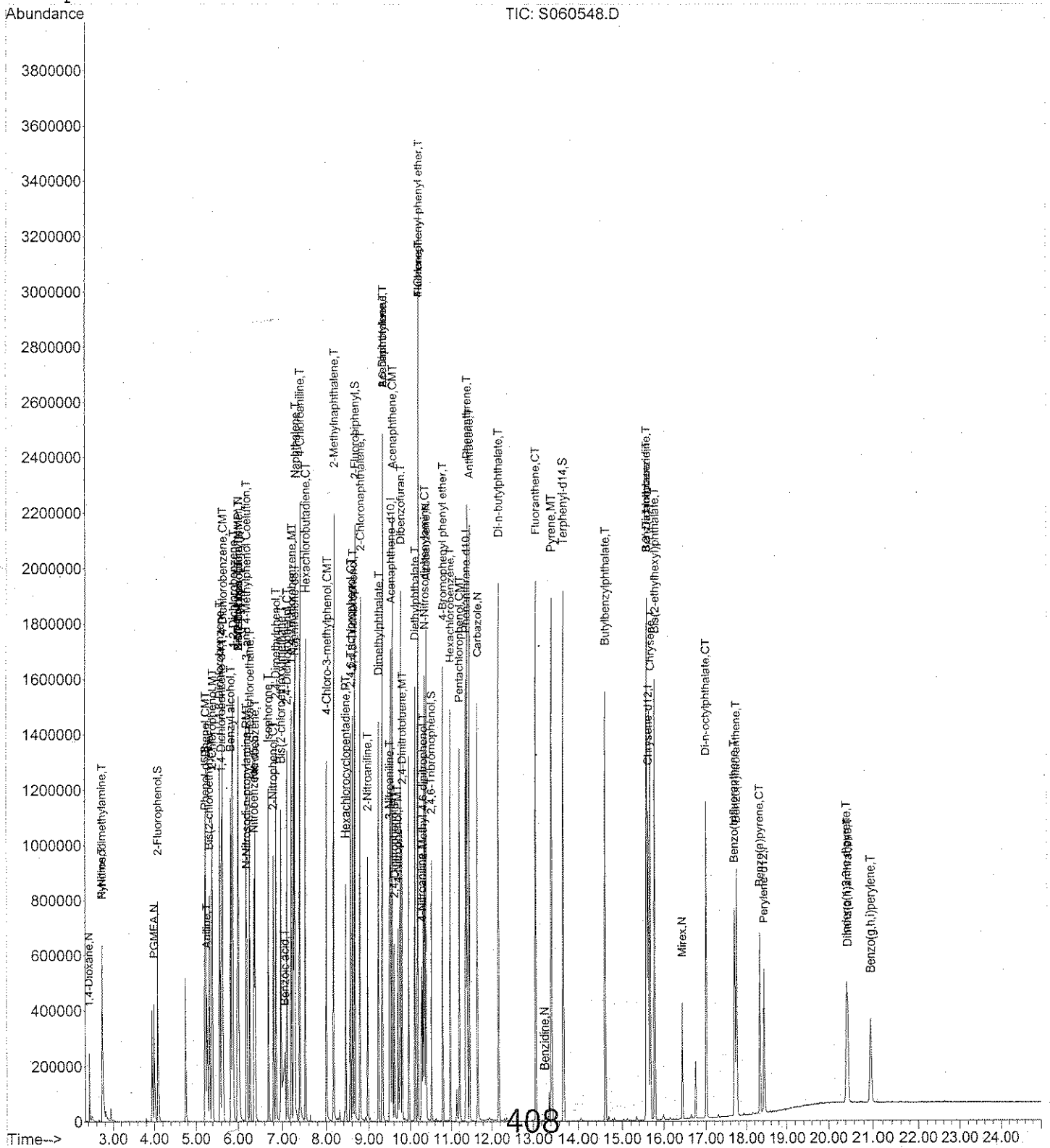
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.01	107	268032	51.81	mg/L		95
36)	2-Methylnaphthalene	8.17	142	663369	53.84	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	148581	37.63	mg/L		99
39)	2,4,6-Trichlorophenol	8.57	196	197475	50.37	mg/L		96
40)	2,4,5-Trichlorophenol	8.62	196	220191	51.57	mg/L		96
42)	2-Chloronaphthalene	8.79	162	603689	52.34	mg/L		100
43)	2-Nitroaniline	8.98	65	183741	54.31	mg/L		97
44)	Dimethylphthalate	9.24	163	673266	53.51	mg/L	#	92
45)	Acenaphthylene	9.33	152	844821	47.35	mg/L		99
46)	2,6-Dinitrotoluene	9.32	165	168513	54.32	mg/L	#	70
47)	3-Nitroaniline	9.50	138	143784	60.77	mg/L	#	89
48)	Acenaphthene	9.57	154	555540	52.43	mg/L		98
49)	2,4-Dinitrophenol	9.62	184	98516	51.71	mg/L	#	86
50)	Dibenzofuran	9.77	168	828468	51.22	mg/L		95
51)	4-Nitrophenol	9.71	109	88510	53.45	mg/L	#	56
52)	2,4-Dinitrotoluene	9.81	165	203090	54.54	mg/L	#	85
53)	Fluorene	10.20	166	683523	53.95	mg/L		98
54)	Diethylphthalate	10.12	149	673410	53.88	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.19	204	346920	53.37	mg/L		99
56)	4-Nitroaniline	10.29	138	129126	56.43	mg/L	#	82
58)	2-Methyl-4,6-dinitrophenol	10.32	198	130794	50.67	mg/L	#	85
59)	N-Nitrosodiphenylamine	10.35	169	424993	46.93	mg/L		93
60)	Azobenzene	10.39	77	811736	51.12	mg/L	#	93
62)	4-Bromophenyl phenyl ether	10.80	248	216187	52.09	mg/L		99
63)	Hexachlorobenzene	10.98	284	224556	49.98	mg/L		98
64)	Pentachlorophenol	11.21	266	166863	53.54	mg/L		98
65)	Phenanthrene	11.40	178	981759	53.61	mg/L		99
66)	Anthracene	11.45	178	939756	52.93	mg/L		100
67)	Carbazole	11.66	167	733532	52.48	mg/L		99
68)	Di-n-butylphthalate	12.18	149	1184605	56.26	mg/L	#	99
69)	Fluoranthene	13.07	202	1090930	53.25	mg/L	#	94
71)	Benzidine	13.28	184	12526	37.53	mg/L	#	90
72)	Pyrene	13.43	202	1127485	55.29	mg/L		99
74)	Butylbenzylphthalate	14.62	149	509853	52.21	mg/L		92
75)	Benz(a)anthracene	15.59	228	907457	54.12	mg/L		99
76)	3,3'-Dichlorobenzidine	15.58	252	233667	62.81	mg/L		97
77)	Chrysene	15.69	228	803925m	51.16	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.79	149	710410	60.26	mg/L		98
79)	Mirex	16.43	272	82839	25.60	mg/L		95
81)	Di-n-octylphthalate	17.02	149	958493	55.06	mg/L		100
82)	Benzo(b)fluoranthene	17.72	252	577307	46.78	mg/L	#	94
83)	Benzo(k)fluoranthene	17.77	252	533825	45.08	mg/L	#	95
84)	Benzo(a)pyrene	18.33	252	441222	44.54	mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	20.43	276	369309	45.60	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.46	278	293894	47.86	mg/L	#	87
87)	Benzo(g,h,i)perylene	20.97	276	279045	43.13	mg/L	#	76

(#) = qualifier out of range (m) = manual integration
S060548.D BA060422.M Sun Apr 23 10:33:10 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:32 2006 Quant Results File: BA060422.RES

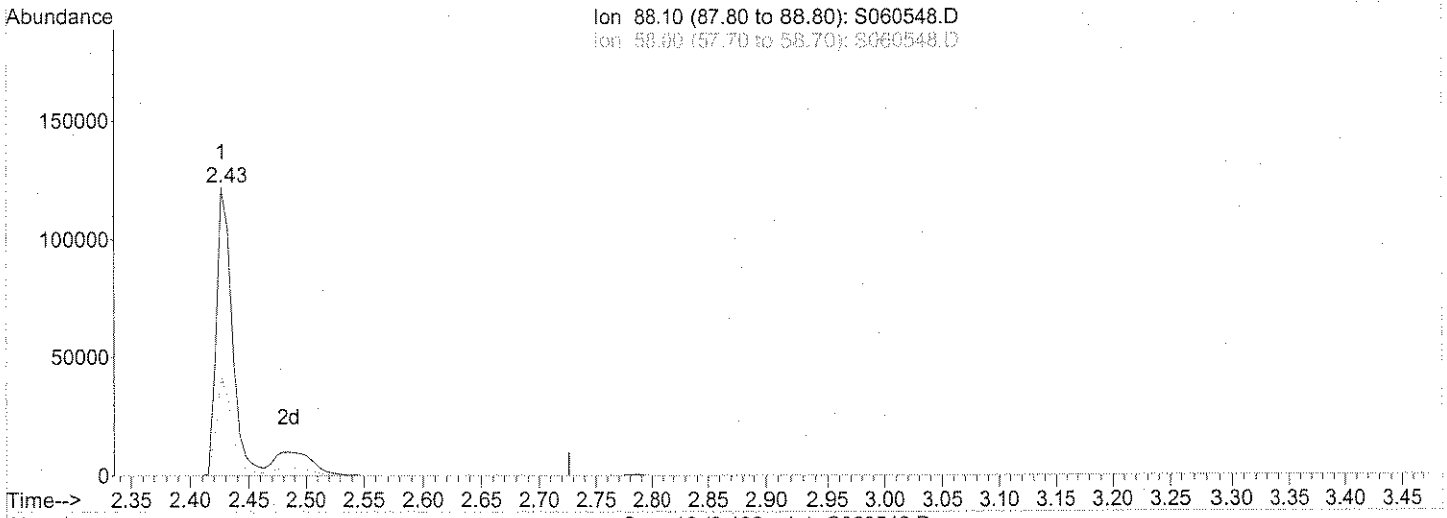
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

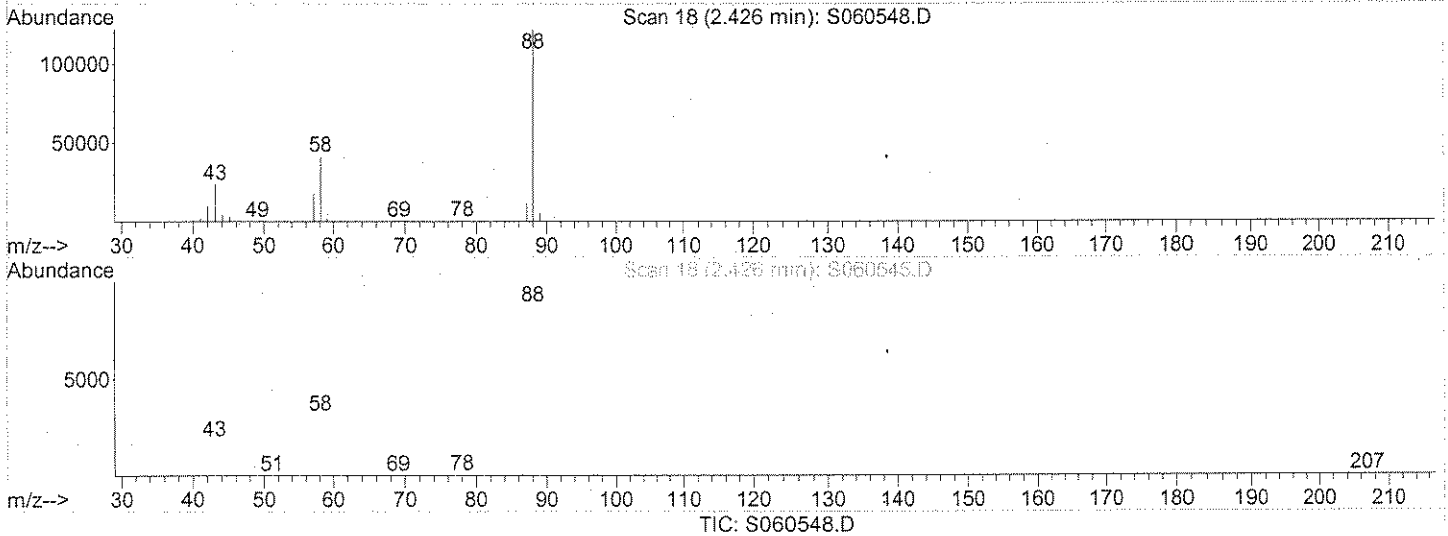


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration





TIC: S060548.D

(2) 1,4-Dioxane (N)

2.43min 52.61mg/L m

response 138280

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	27.39#
0.00	0.00	0.00
0.00	0.00	0.00

Spike pmg

E. 4/23/06

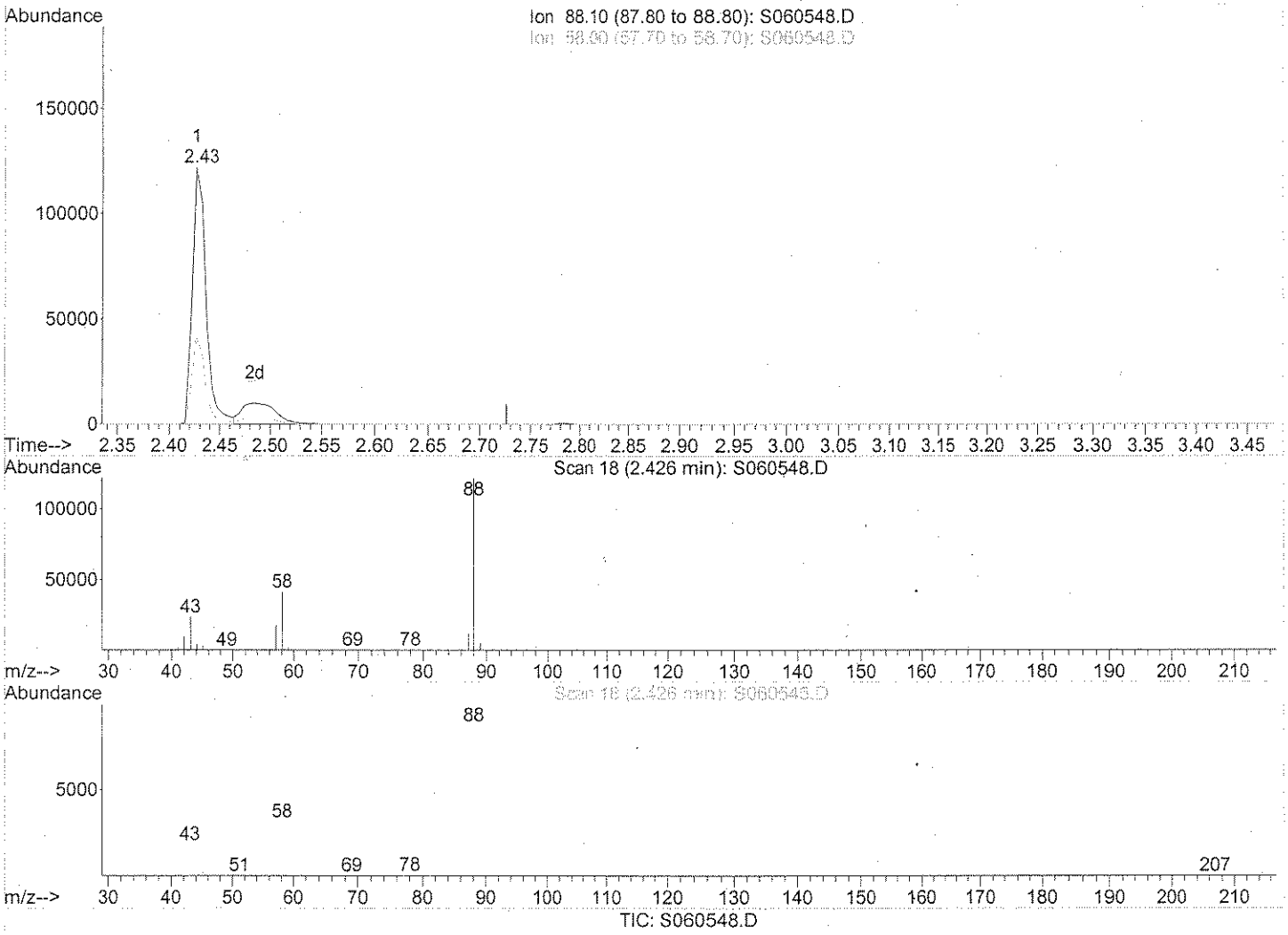
4/26/06

409

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:30 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(2) 1,4-Dioxane (N)

2.43min 43.60mg/L

response 114611

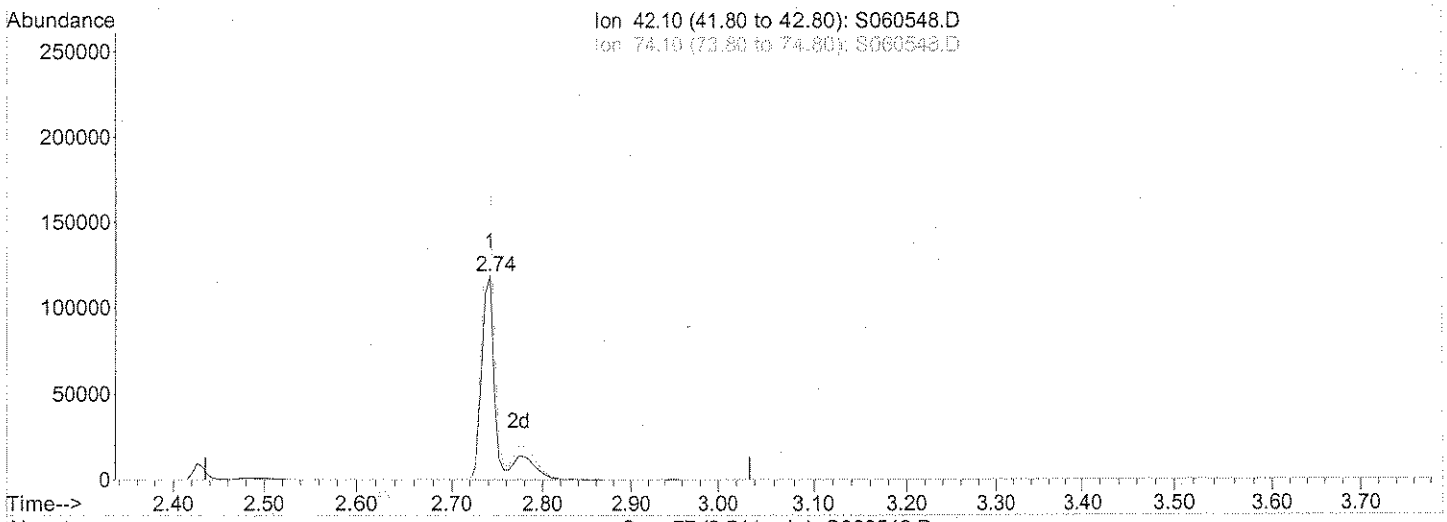
Ion	Exp%	Act%
88.10	100	100
58.00	61.30	33.04#
0.00	0.00	0.00
0.00	0.00	0.00

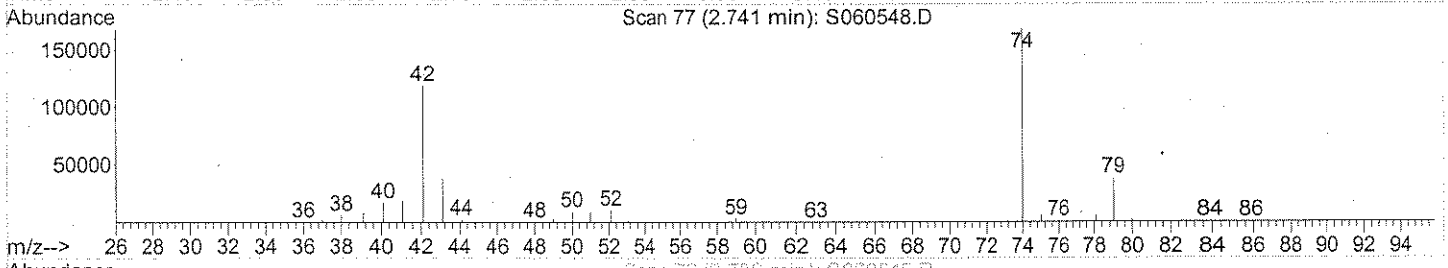
410

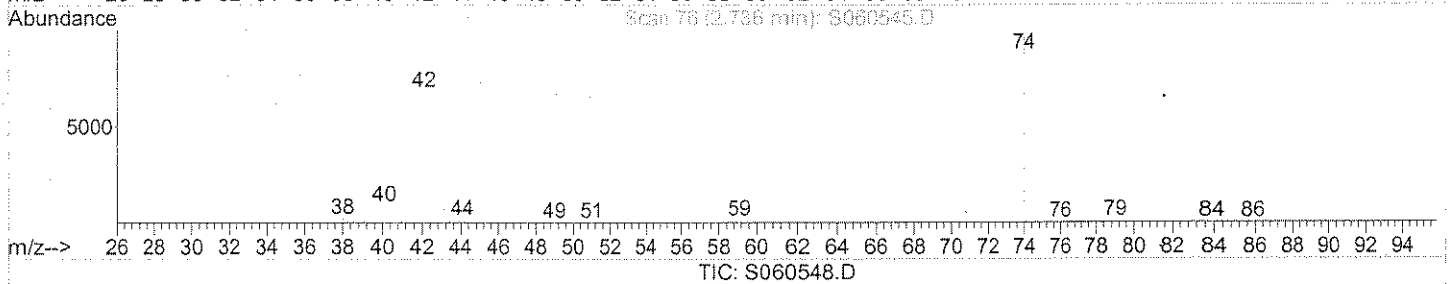
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060548.D

(3) N-Nitrosodimethylamine (T)

2.74min 53.65mg/L m

response 139853

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	116.18
0.00	0.00	0.00
0.00	0.00	0.00

Spike peak
E. 4/23/06

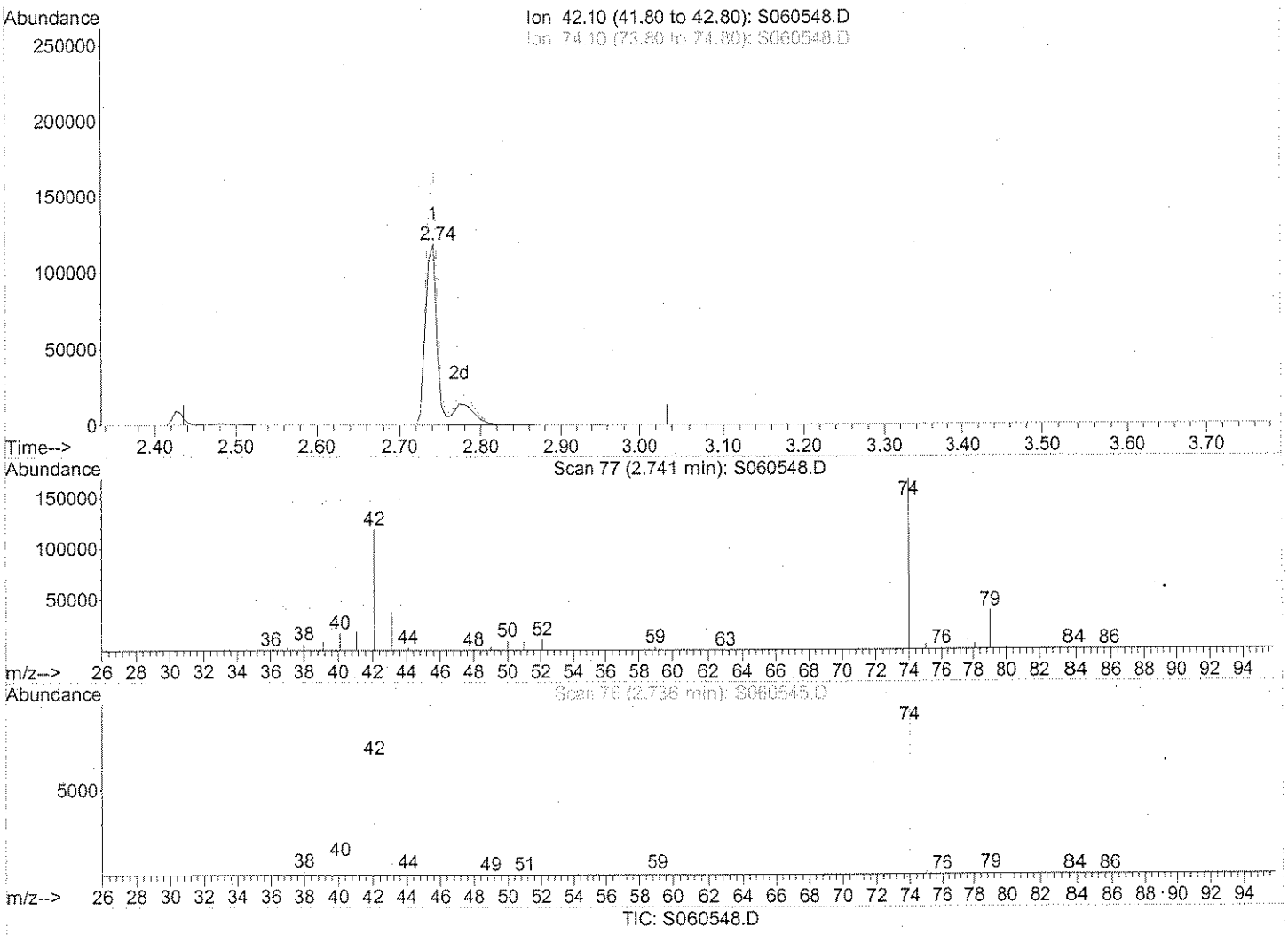
DH 4/26/06

411

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060548.D

(3) N-Nitrosodimethylamine (T)

2.74min 43.67mg/L

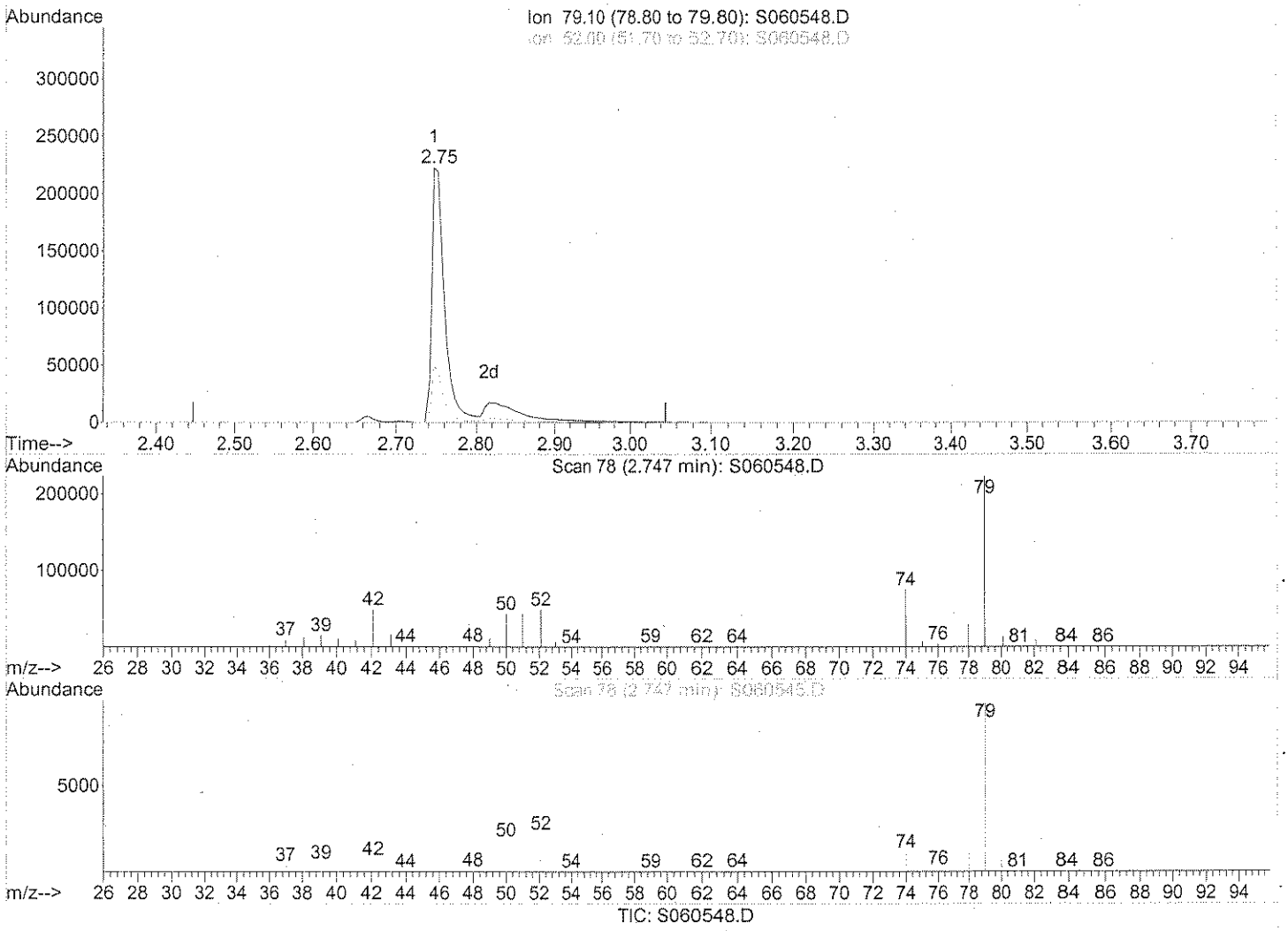
response 113853

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	142.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060548.D

(4) Pyridine (T)

2.75min 43.64mg/L m

response 305862

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	17.12#
0.00	0.00	0.00
0.00	0.00	0.00

Split pair
4/23/06

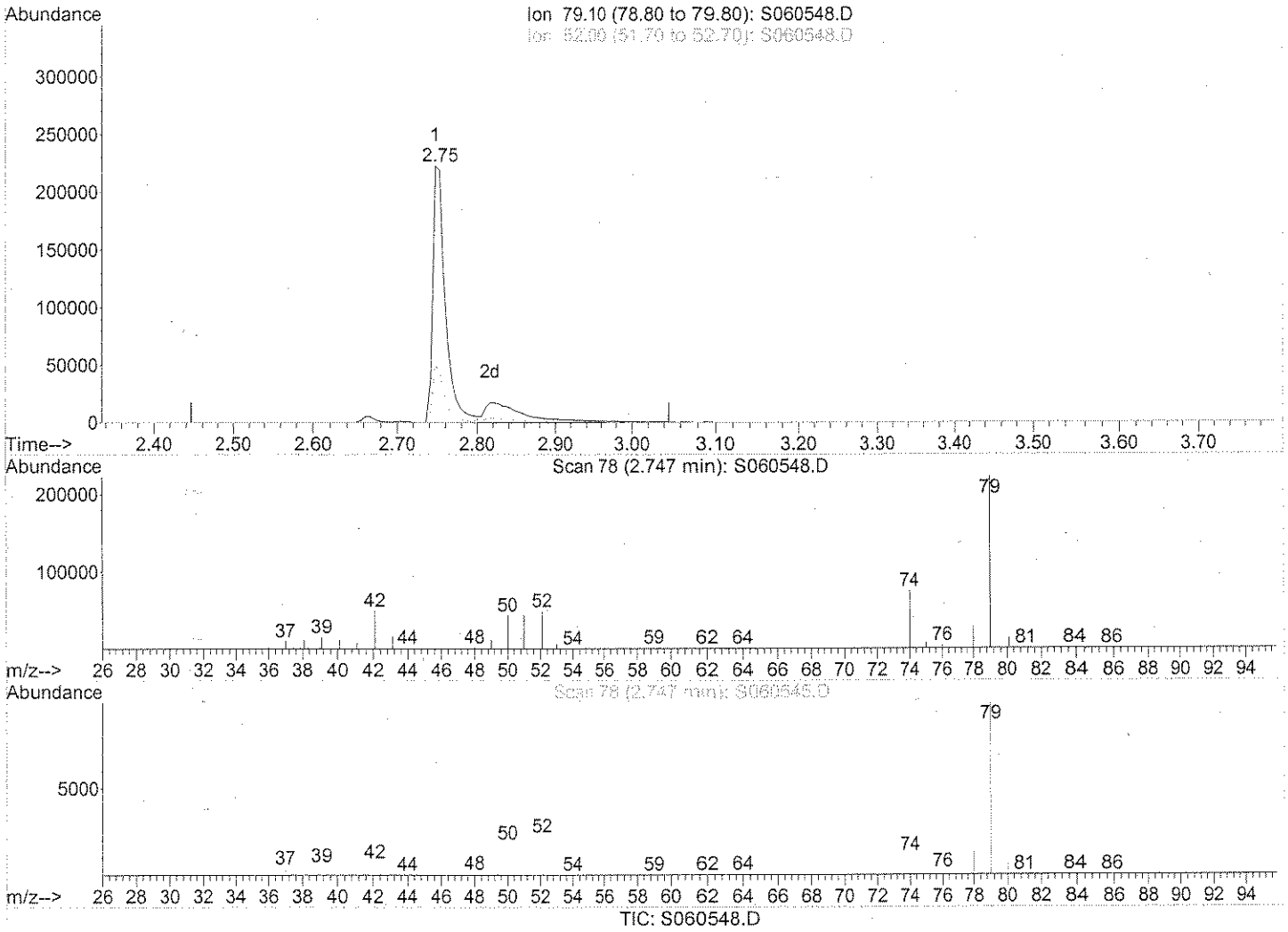
4/26/06

413

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060548.D

(4) Pyridine (T)

2.75min 35.49mg/L

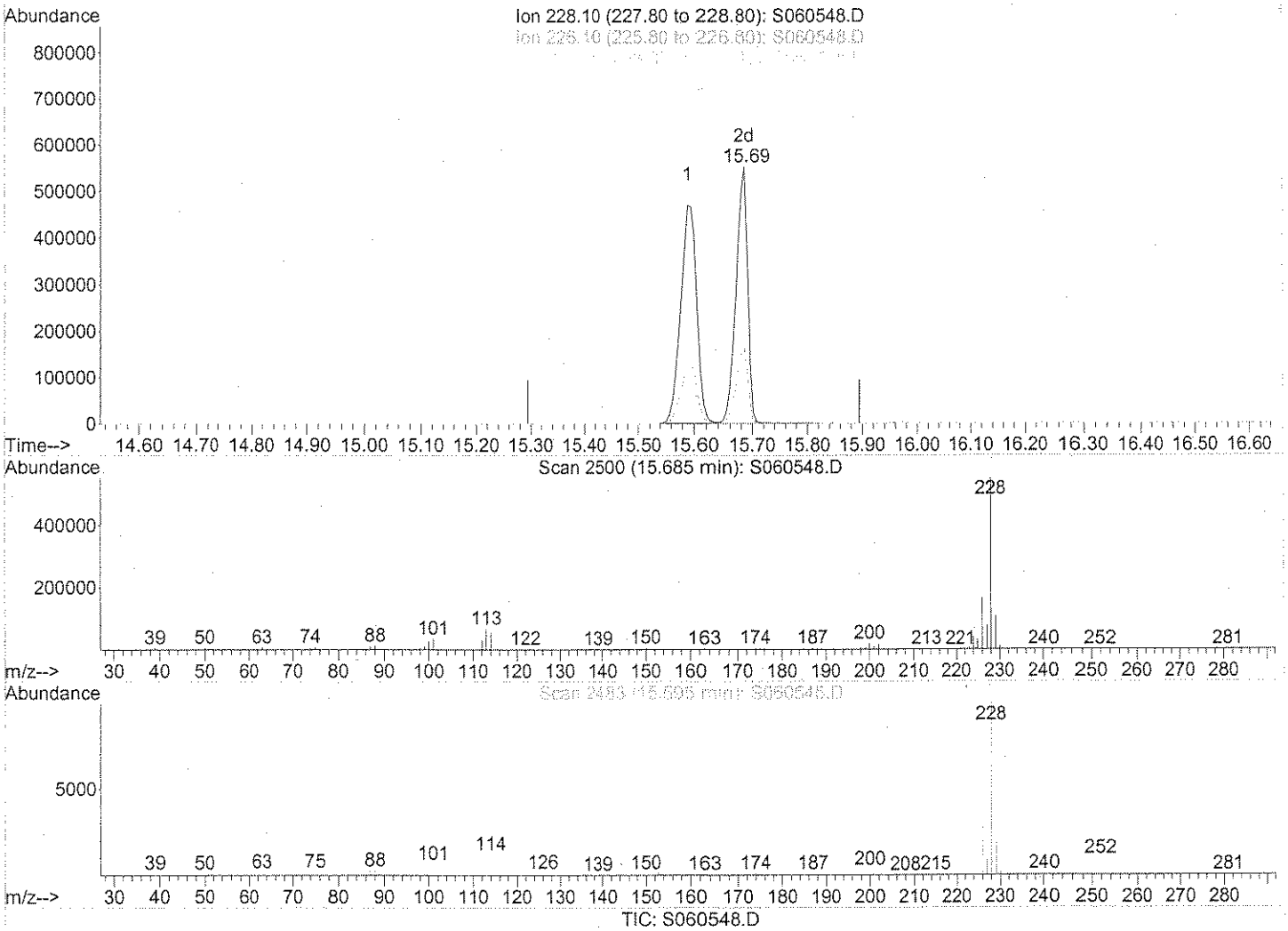
response 248725

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	21.05#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:32 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(77) Chrysene (T)

15.69min 51.16mg/L m

response 803925

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	31.00
229.10	19.40	21.90
0.00	0.00	0.00

Wrong peak
4/23/06

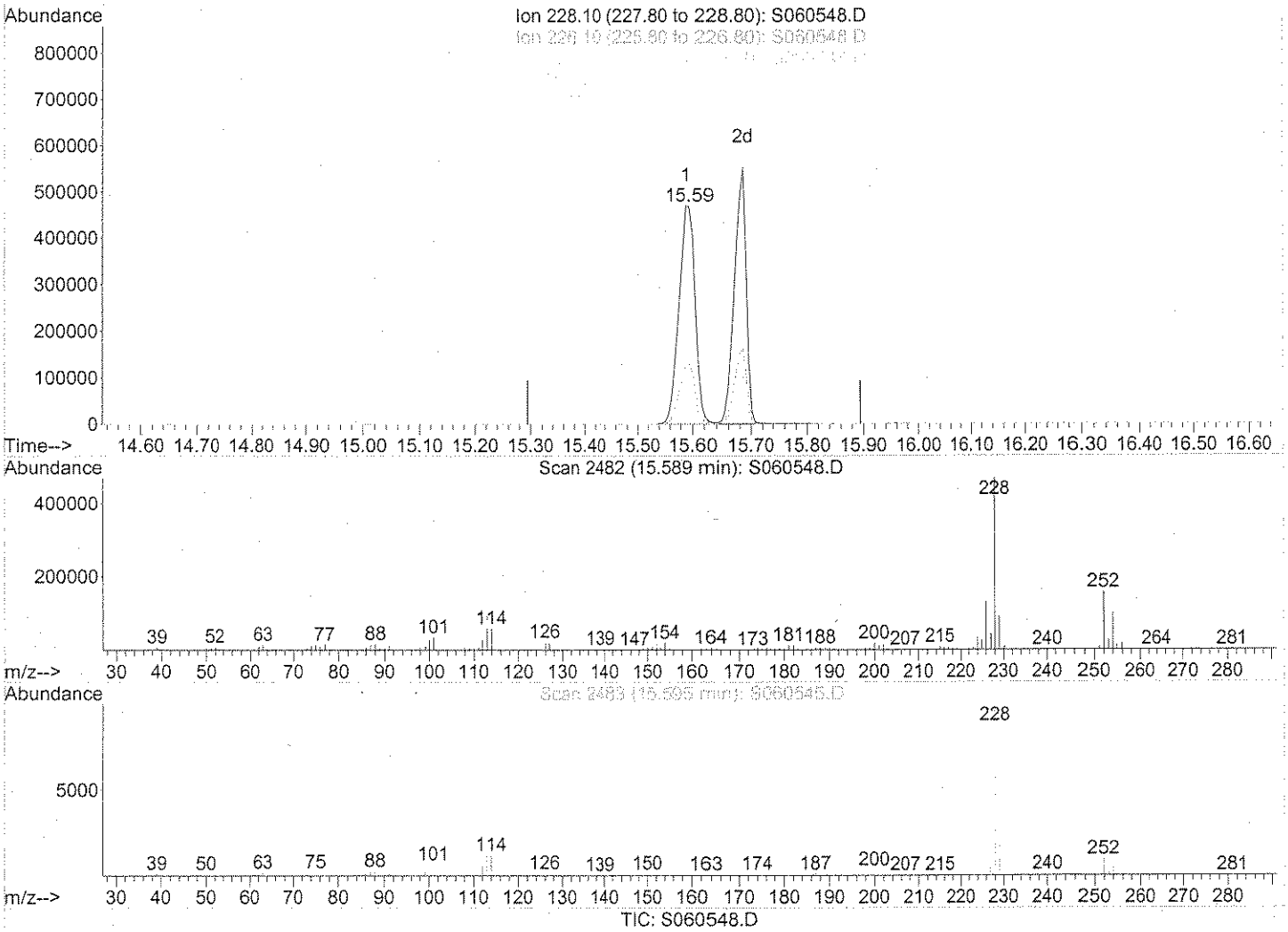
not 4/26/06

415

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(77) Chrysene (T)

15.59min 57.74mg/L

response 907457

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.47
229.10	19.40	19.40
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:30:39 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	193480	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	757404	40.00	mg/L	0.00
37) Acenaphthene-d10	9.53	164	431681	40.00	mg/L	0.00
57) Phenanthrene-d10	11.37	188	749630	40.00	mg/L	0.00
70) Chrysene-d12	15.63	240	611531	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	285906	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.08	112	283928	48.95	mg/L	0.00
Spiked Amount 50.000			Recovery = 97.90%			
7) Phenol-d5	5.22	99	346926	46.67	mg/L	0.00
Spiked Amount 50.000			Recovery = 93.34%			
23) Nitrobenzene-d5	6.38	82	400007	59.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 118.00%			
41) 2-Fluorobiphenyl	8.67	172	720575	55.08	mg/L	0.00
Spiked Amount 50.000			Recovery = 110.16%			
61) 2,4,6-Tribromophenol	10.52	330	103026	44.81	mg/L	0.00
Spiked Amount 50.000			Recovery = 89.62%			
73) Terphenyl-d14	13.69	244	826395	59.17	mg/L	0.00
Spiked Amount 50.000			Recovery = 118.34%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	114611	43.60	mg/L #	63
3) N-Nitrosodimethylamine	2.74	42	113853	43.67	mg/L #	75
4) Pyridine	2.75	79	248725	35.49	mg/L #	46
5) PGMEA	4.00	43	169696	44.91	mg/L #	39
8) Aniline	5.27	93	308553	42.15	mg/L	98
9) Phenol	5.24	94	427151	52.11	mg/L #	82
10) Bis(2-chloroethyl)ether	5.33	93	331753	51.55	mg/L #	81
11) 2-Chlorophenol	5.41	128	327363	51.47	mg/L	98
12) 1,3-Dichlorobenzene	5.58	146	384324	50.52	mg/L	99
13) 1,4-Dichlorobenzene	5.64	146	393263	50.56	mg/L	99
14) Benzyl alcohol	5.83	108	221254	60.50	mg/L #	74
15) 1,2-Dichlorobenzene	5.89	146	359709	48.98	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.01	99	178918	46.57	mg/L	99
17) 2-Methylphenol	6.01	108	281796	47.41	mg/L	97
18) Bis(2-chloroisopropyl)ethe	6.02	45	101876	67.48	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.21	70	251961	48.54	mg/L #	53
20) Hexachloroethane	6.28	117	161606	52.13	mg/L	88
21) 3- and 4-Methylphenol Coel	6.19	107	374252	100.70	mg/L #	94
24) Nitrobenzene	6.40	77	396357	52.28	mg/L #	75
25) Isophorone	6.69	82	574530	44.84	mg/L	98
26) 2-Nitrophenol	6.81	139	181083	54.46	mg/L #	86
27) 2,4-Dimethylphenol	6.86	122	265819	49.10	mg/L	92
28) Bis(2-chloroethoxy)methane	6.98	93	402906	58.97	mg/L	86
29) 2,4-Dichlorophenol	7.11	162	270718	50.50	mg/L	99
30) 1,2,4-Trichlorobenzene	7.21	180	314749	50.94	mg/L	100
31) Benzoic acid	7.07	122	195262	47.81	mg/L #	82
32) Naphthalene	7.30	128	962810	51.96	mg/L	99
33) 4-Chloroaniline	7.40	127	326513	57.42	mg/L	95
34) Hexachlorobutadiene	7.52	225	174367	51.73	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:30:39 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

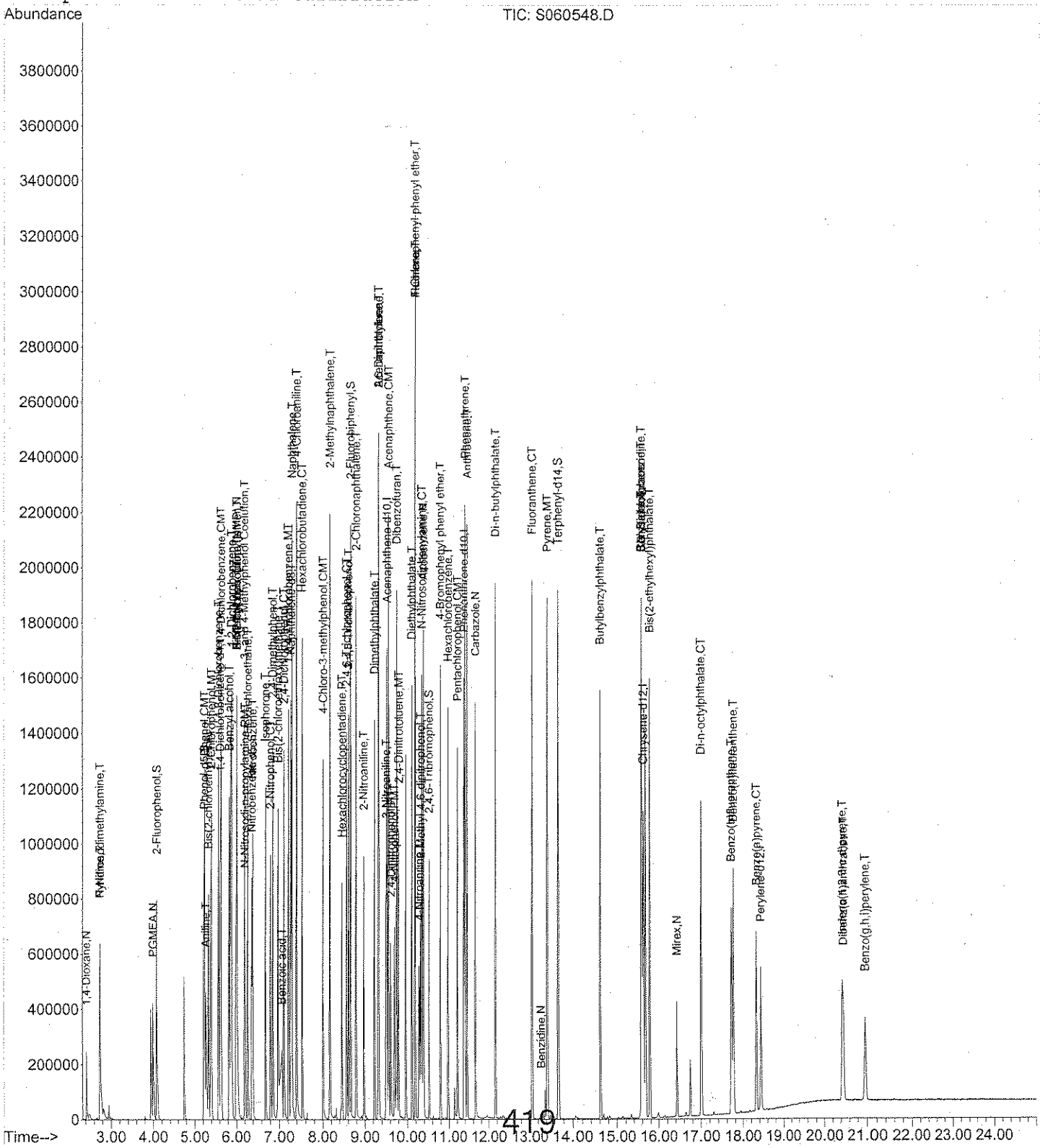
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.01	107	268032	51.81	mg/L		95
36)	2-Methylnaphthalene	8.17	142	663369	53.84	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	148581	37.63	mg/L		99
39)	2,4,6-Trichlorophenol	8.57	196	197475	50.37	mg/L		96
40)	2,4,5-Trichlorophenol	8.62	196	220191	51.57	mg/L		96
42)	2-Chloronaphthalene	8.79	162	603689	52.34	mg/L		100
43)	2-Nitroaniline	8.98	65	183741	54.31	mg/L		97
44)	Dimethylphthalate	9.24	163	673266	53.51	mg/L	#	92
45)	Acenaphthylene	9.33	152	844821	47.35	mg/L		99
46)	2,6-Dinitrotoluene	9.32	165	168513	54.32	mg/L	#	70
47)	3-Nitroaniline	9.50	138	143784	60.77	mg/L	#	89
48)	Acenaphthene	9.57	154	555540	52.43	mg/L		98
49)	2,4-Dinitrophenol	9.62	184	98516	51.71	mg/L	#	86
50)	Dibenzofuran	9.77	168	828468	51.22	mg/L		95
51)	4-Nitrophenol	9.71	109	88510	53.45	mg/L	#	56
52)	2,4-Dinitrotoluene	9.81	165	203090	54.54	mg/L	#	85
53)	Fluorene	10.20	166	683523	53.95	mg/L		98
54)	Diethylphthalate	10.12	149	673410	53.88	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.19	204	346920	53.37	mg/L		99
56)	4-Nitroaniline	10.29	138	129126	56.43	mg/L	#	82
58)	2-Methyl-4,6-dinitrophenol	10.32	198	130794	50.67	mg/L	#	85
59)	N-Nitrosodiphenylamine	10.35	169	424993	46.93	mg/L		93
60)	Azobenzene	10.39	77	811736	51.12	mg/L	#	93
62)	4-Bromophenyl phenyl ether	10.80	248	216187	52.09	mg/L		99
63)	Hexachlorobenzene	10.98	284	224556	49.98	mg/L		98
64)	Pentachlorophenol	11.21	266	166863	53.54	mg/L		98
65)	Phenanthrene	11.40	178	981759	53.61	mg/L		99
66)	Anthracene	11.45	178	939756	52.93	mg/L		100
67)	Carbazole	11.66	167	733532	52.48	mg/L		99
68)	Di-n-butylphthalate	12.18	149	1184605	56.26	mg/L	#	99
69)	Fluoranthene	13.07	202	1090930	53.25	mg/L	#	94
71)	Benzidine	13.28	184	12526	37.53	mg/L	#	90
72)	Pyrene	13.43	202	1127485	55.29	mg/L		99
74)	Butylbenzylphthalate	14.62	149	509853	52.21	mg/L		92
75)	Benz(a)anthracene	15.59	228	907457	54.12	mg/L		99
76)	3,3'-Dichlorobenzidine	15.58	252	233667	62.81	mg/L		97
77)	Chrysene	15.59	228	907457	57.74	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	15.79	149	710410	60.26	mg/L		98
79)	Mirex	16.43	272	82839	25.60	mg/L		95
81)	Di-n-octylphthalate	17.02	149	958493	55.06	mg/L		100
82)	Benzo(b)fluoranthene	17.72	252	577307	46.78	mg/L	#	94
83)	Benzo(k)fluoranthene	17.77	252	533825	45.08	mg/L	#	95
84)	Benzo(a)pyrene	18.33	252	441222	44.54	mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	20.43	276	369309	45.60	mg/L	#	84
86)	Dibenz(a,h)anthracene	20.46	278	293894	47.86	mg/L	#	87
87)	Benzo(g,h,i)perylene	20.97	276	279045	43.13	mg/L	#	76

(#) = qualifier out of range (m) = manual integration
S060548.D BA060422.M Sun Apr 23 10:30:42 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060548.D Vial: 12
Acq On : 22 Apr 2006 9:40 pm Operator: SC
Sample : QCALTSTD 50PPM Inst : MSS
Misc : QCALTSTD50;;;;;;;23-MS-44-1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 10:30 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Continuing Calibration Data

Injection Log

Directory: C:\MSDCHEM\1\DATA\S060424

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	S060559.d	1.	STUN0424	TUNE;;;;;;;23-MS-...	24 Apr 2006 11:03
2	2	S060560.d	1.	25PPM 8270 CCV	SSTD001;;;;;;;23-...	24 Apr 2006 11:19
3	3	S060561.d	1.	1PPM 8270 CCV		24 Apr 2006 11:58
4	4	S060562.d	1.	S0328WA1LCSD	S0328WA1LCSD;06-0...	24 Apr 2006 12:31
5	5	S060563.d	1.	S0406WA1	S0406WA1;06-04-06...	24 Apr 2006 13:04
6	6	S060564.d	1.	S0406WA1LCS	S0406WA1LCS;06-04...	24 Apr 2006 13:38
7	7	S060565.d	1.	S0406WA1LCSD	S0406WA1LCSD;06-0...	24 Apr 2006 14:12
8	8	S060566.d	1.	L0600578-001	;06-04-06;06-APR-...	24 Apr 2006 14:45
9	9	S060567.d	1.	L0600578-002	;06-04-06;06-APR-...	24 Apr 2006 15:19
10	10	S060568.d	1.	L0600578-003	;06-04-06;06-APR-...	24 Apr 2006 17:28
11	11	S060569.d	1.	L0600578-004	;06-04-06;06-APR-...	24 Apr 2006 18:02
12	12	S060570.d	1.	L0600578-005	;06-04-06;06-APR-...	24 Apr 2006 18:36
13	13	S060571.d	1.	L0600578-007	;06-04-06;06-APR-...	24 Apr 2006 19:09
14	14	S060572.d	1.	L0600578-002;10	;06-04-06;06-APR-...	24 Apr 2006 19:42
15	15	S060573.d	1.	S0407WA1625	S0407WA1;07-04-06...	24 Apr 2006 20:16
16	16	S060574.d	1.	S0407WA1LCS625	S0407WA1LCS;07-04...	24 Apr 2006 20:50
17	17	S060575.d	1.	S0407WA1LCSD625	S0407WA1LCSD;07-0...	24 Apr 2006 21:24
18	18	S060576.d	1.	L0600178-001;100	;07-04-06;07-APR-...	24 Apr 2006 21:57

8270 Analysis Lot# G.600549

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	04/25/2006

Analysis Lot:	LWG0600549	**Prep Lot:**		**Report Group:**	
Analysis Method:	DFTPP	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\TUNE.M	**Calibration ID:**	CAL1154
Title:	DFTPP Tuning Criteria	**Report List ID:**	LJ1247
Tune Ref:		**Method ID:**	MJ364
MB Ref:		**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060559.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 11:03	**Quant Date:**		**Vial:**	1
Run Type:	DFTPP			**Dilution:**	1.0
Lab ID:	LWG0600549-1			**Soln Conc. Units:**	

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	60	55.8	80426	Pass
68	69	0	2	0.0	0	Pass
69	198	0	100	69.5	100197	Pass
70	69	0	2	0.4	416	Pass
127	198	40	60	56.8	81880	Pass
197	198	0	1	0.0	0	Pass
198	198	100	100	100.0	144157	Pass
199	198	5	9	6.8	9760	Pass
275	198	10	30	29.1	41922	Pass
365	198	1	100	4.9	7037	Pass
441	443	0	100	78.8	21305	Pass
442	198	40	100	92.5	133373	Pass
443	442	17	23	20.3	27029	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

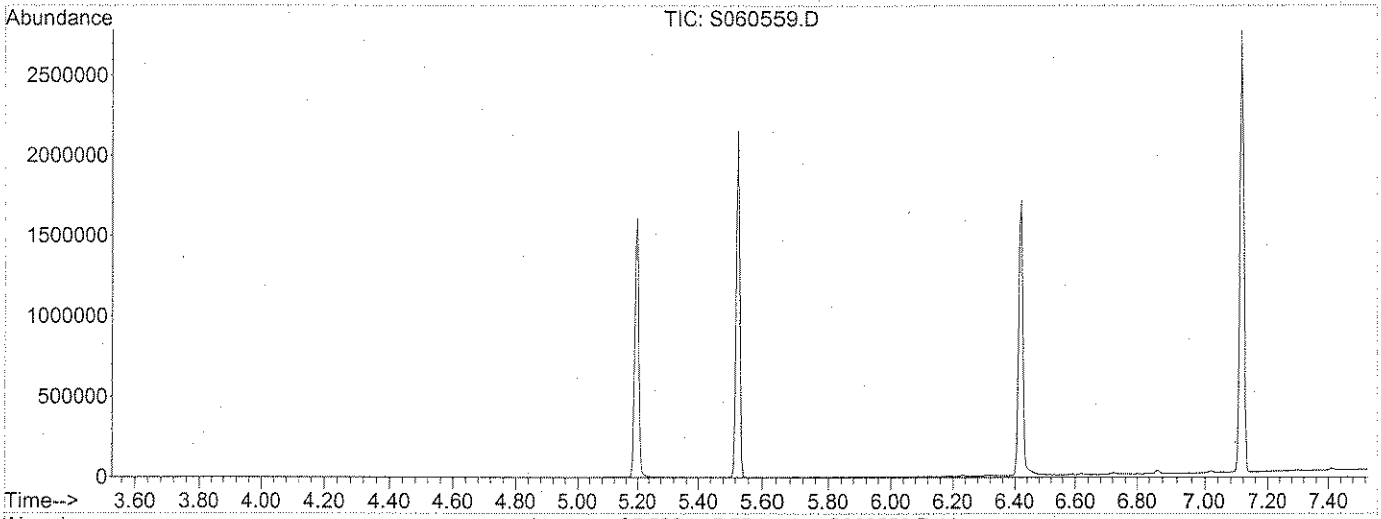
D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

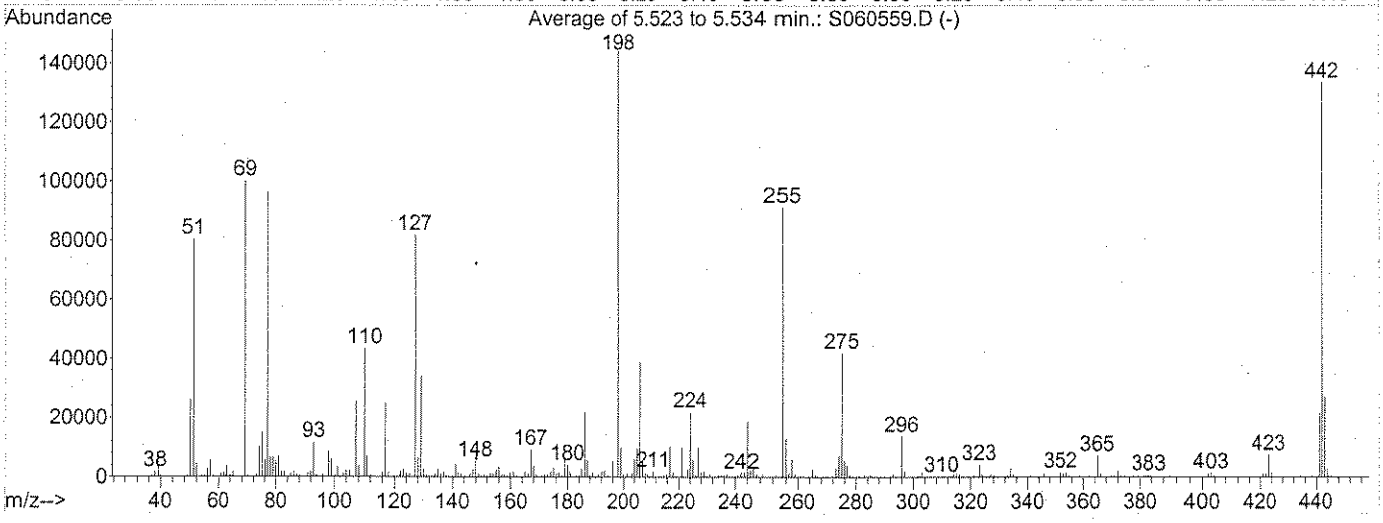
*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

DFTPP

Data File : C:\MSDCHEM\1\DATA\S060424\S060559.D Vial: 1
Acq On : 24 Apr 2006 11:03 am Operator: SC
Sample : STUN0424 Inst : MSS
Misc : TUNE;;;;;;;23-MS-31-9 Multiplr: 1.00
MS Integration Params: events.e
Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS10 Tune Method

E - 4/25/06





AutoFind: Scans 83, 84, 85; Background Corrected with Scan 72

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.8	80426	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	69.5	100197	PASS
70	69	0.00	2	0.4	416	PASS
127	198	40	60	56.8	81880	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	144157	PASS
199	198	5	9	6.8	9760	PASS
275	198	10	30	29.1	41922	PASS
365	198	1	100	4.9	7037	PASS
441	443	0.01	100	78.8	21305	PASS
442	198	40	100	92.5	133373	PASS
443	442	17	23	20.3	27029	PASS

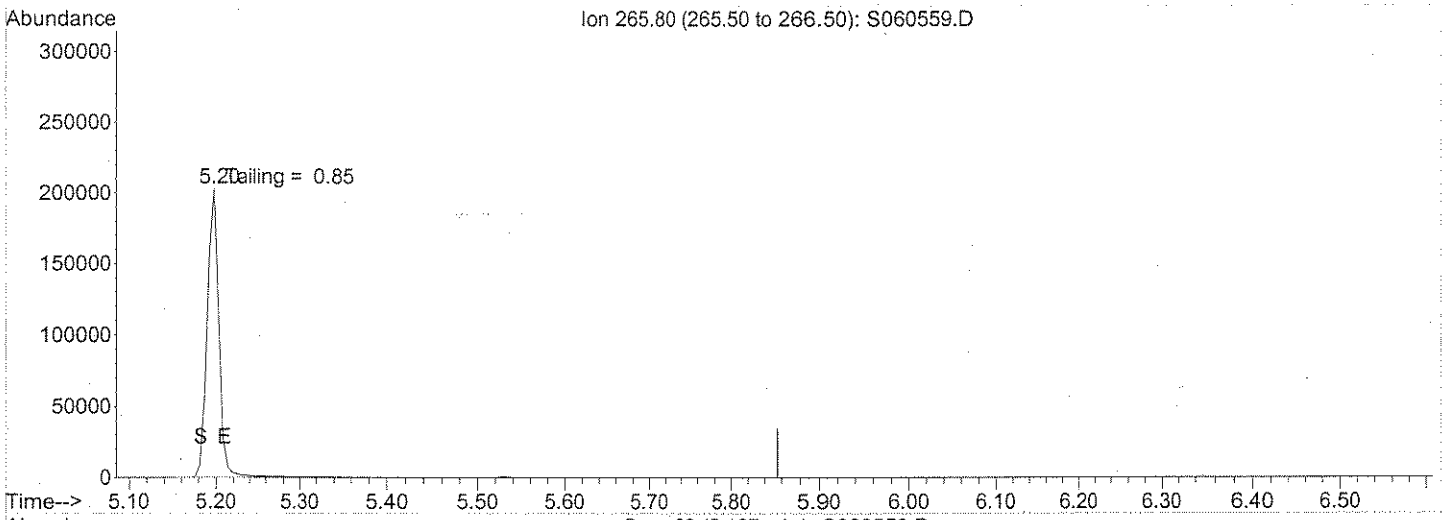
423

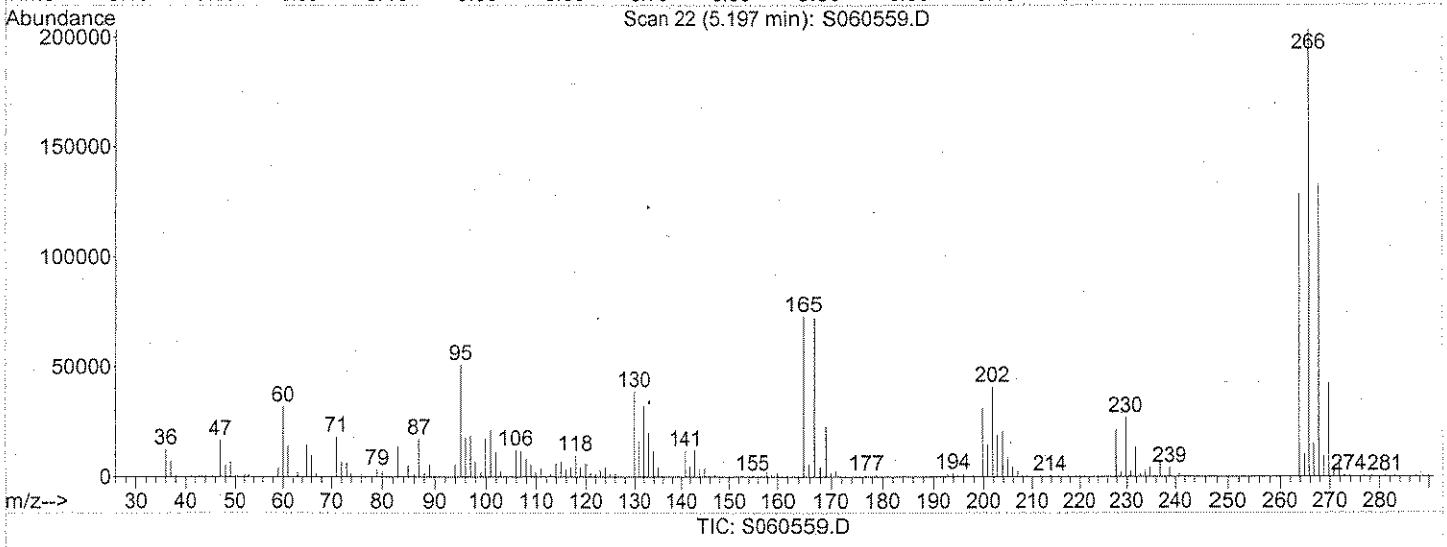
S060559.D TUNE.M Tue Apr 25 08:53:56 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060559.D Vial: 1
Acq On : 24 Apr 2006 11:03 am Operator: SC
Sample : STUN0424 Inst : MSS
Misc : TUNE;;;;;;;23-MS-31-9 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Apr 25 8:52 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS10 Tune Method
Last Update : Fri Mar 10 08:11:06 2006
Response via : Single Level Calibration





(1) Pentachlorophenol

5.20min 0.00

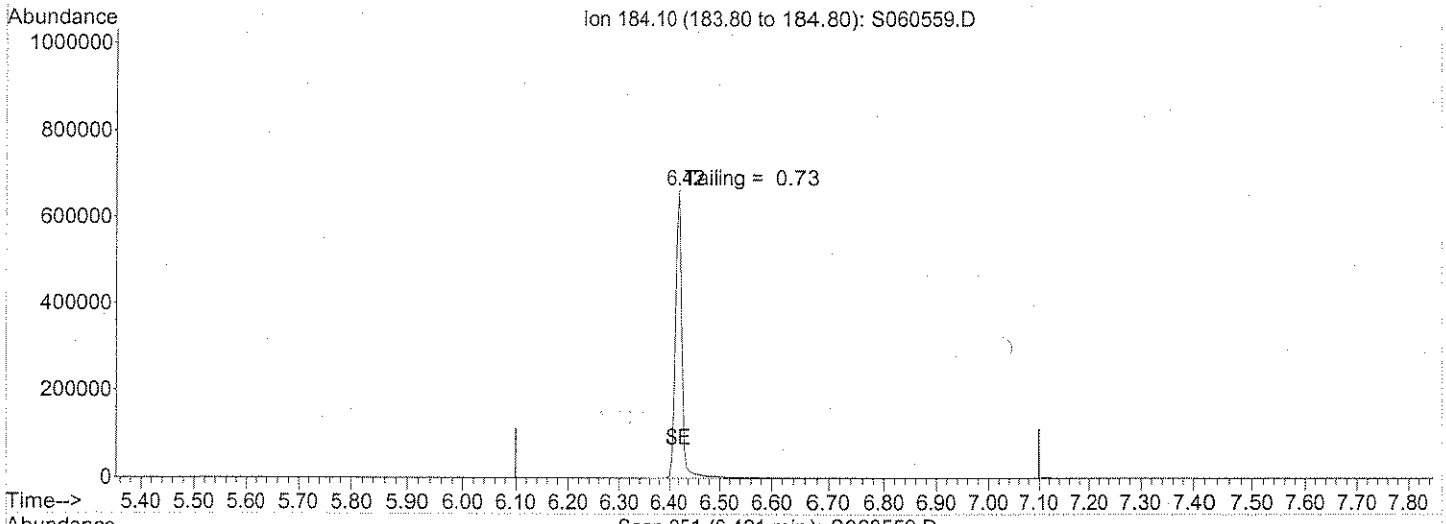
response 1850337

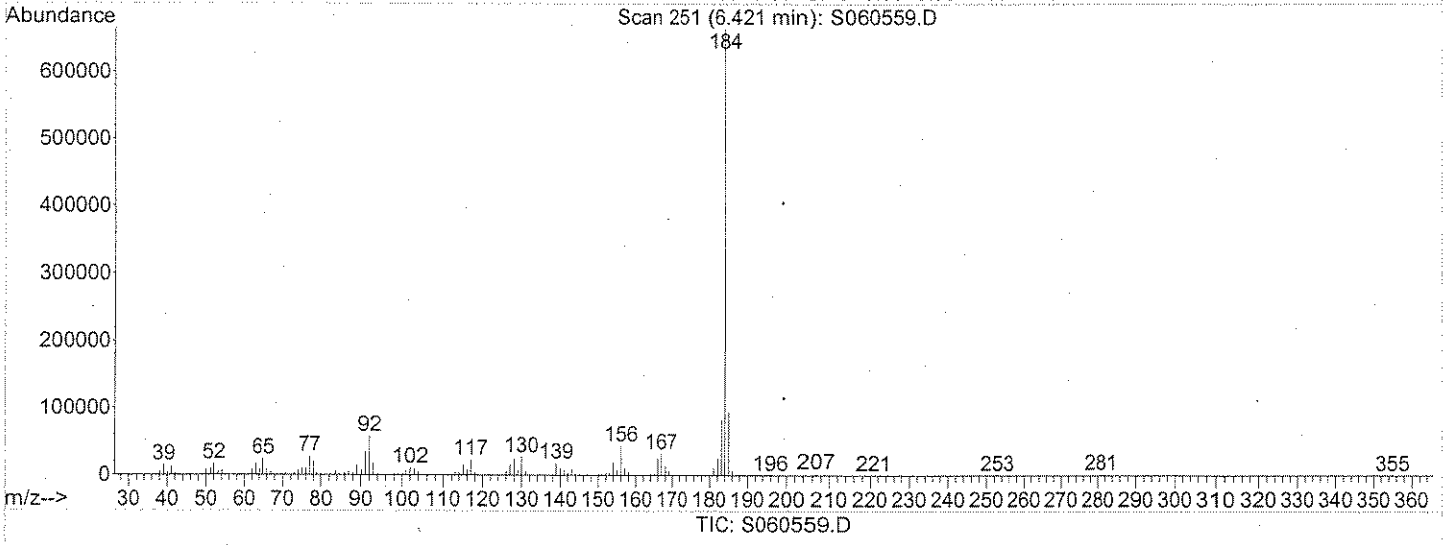
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060559.D Vial: 1
Acq On : 24 Apr 2006 11:03 am Operator: SC
Sample : STUN0424 Inst : MSS
Misc : TUNE;;;;;;;23-MS-31-9 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Apr 25 8:52 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS10 Tune Method
Last Update : Fri Mar 10 08:11:06 2006
Response via : Single Level Calibration





(2) Benzidine

6.42min 0.00

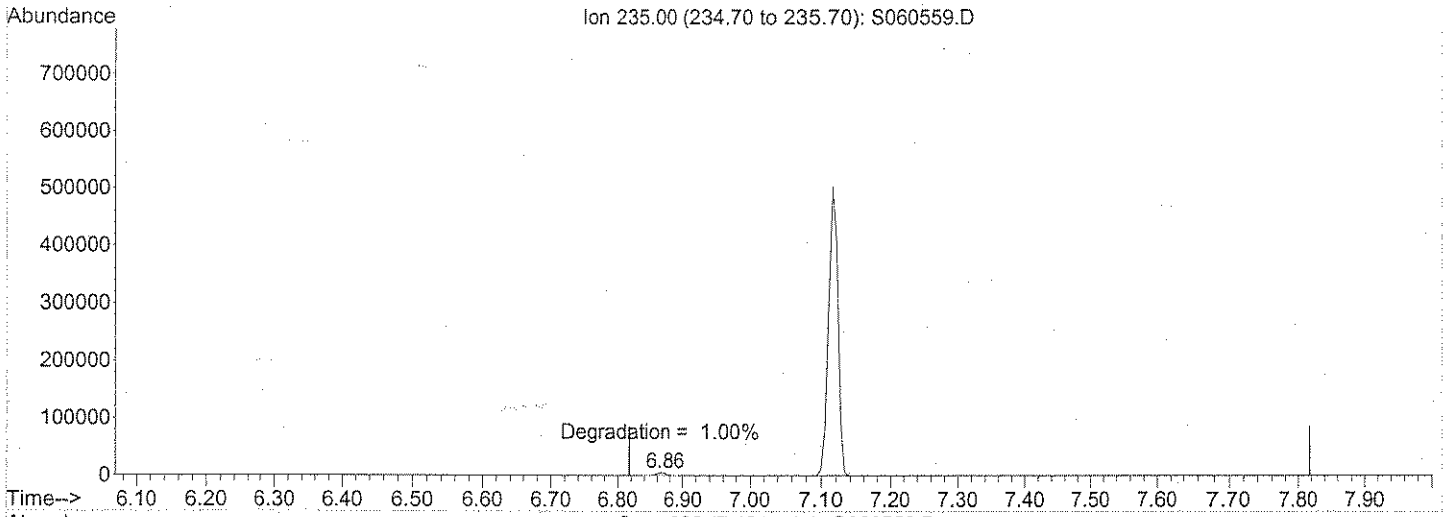
response 6403027

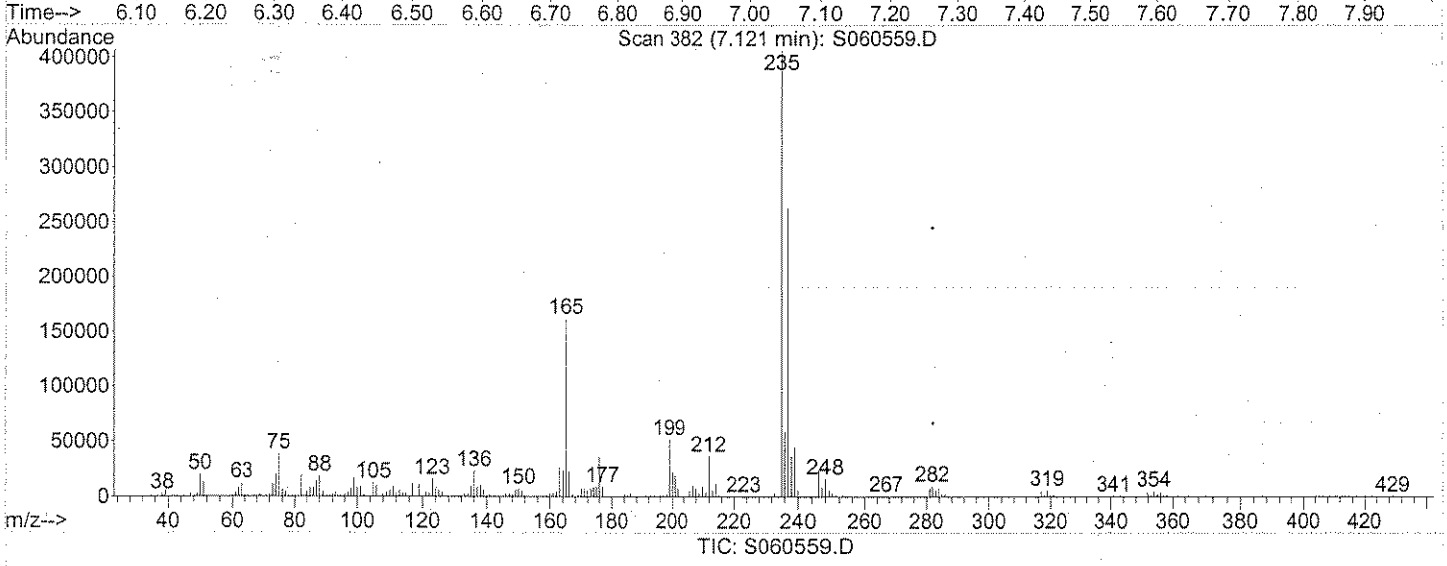
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060559.D Vial: 1
Acq On : 24 Apr 2006 11:03 am Operator: SC
Sample : STUN0424 Inst : MSS
Misc : TUNE;;;;;;;23-MS-31-9 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Apr 25 8:52 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS10 Tune Method
Last Update : Fri Mar 10 08:11:06 2006
Response via : Single Level Calibration





TIC: S060559.D

(4) 4,4-DDT

7.12min 0.00

response 4482714

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	04/25/2006

Analysis Lot:	LWG0600549	**Prep Lot:**		**Report Group:**	
Analysis Method:	8270C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\BA060422.M	**Calibration ID:**	CAL1154
Title:			
Tune Ref:		**Method ID:**	MJ360
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060560.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 11:19	**Quant Date:**	04/24/2006 11:49	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	LWG0600549-2			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.60	-0.02?	152	190080	40.00	OK
2	Naphthalene-d8	7.24	-0.03?	136	768494	40.00	OK
3	Acenaphthene-d10	9.49	-0.03?	164	426863	40.00	OK
4	Phenanthrene-d10	11.34	-0.02?	188	745373	40.00	OK
5	Chrysene-d12	15.59	-0.03?	240	662583	40.00	OK
6	Perylene-d12	18.39	-0.05?	264	292864	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.06			112	145221	25.49		45-101	NA	
1	Phenol-d5	5.19			99	192473	26.35		49-107	NA	
2	Nitrobenzene-d5	6.35			82	191599	27.85		58-105	NA	
3	2-Fluorobiphenyl	8.64			172	328256	25.37		50-101	NA	
4	2,4,6-Tribromophenol	10.49			330	57516	25.16		43-104	NA	
5	Terphenyl-d14	13.65			244	360796	23.84		34-120	NA	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.43			88	66930m	25.92			
1	N-Nitrosodimethylamine	2.73			42	93353m	36.45			
1	Pyridine	2.74			79	175252m	25.45			
1	PGMEA	3.98			43	164501	44.31			
1	Aniline	5.25			93	186434	25.92			
1	Phenol	5.21			94	206531	25.65			
1	Bis(2-chloroethyl) Ether	5.31			93	161626	25.56			
1	2-Chlorophenol	5.38			128	166351	26.62			
1	1,3-Dichlorobenzene	5.56			146	185042	24.76			
1	1,4-Dichlorobenzene	5.62			146	185931	24.33			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060560.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 11:19	**Quant Date:**	04/24/2006 11:49	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	LWG0600549-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	5.81			108	98688	27.47			
1	1,2-Dichlorobenzene	5.87			146	179716	24.91			
1	1-Methyl-2-pyrrolidinone	5.91			99	103174m	27.33			
1	2-Methylphenol	5.98			108	152898	26.18			
1	Bis(2-chloroisopropyl) Ether	5.99			45	75748	51.07			
1	N-Nitrosodi-n-propylamine	6.18			70	143471	28.14			
1	Hexachloroethane	6.26			117	80708	26.50			
1	3- and 4-Methylphenol Coelutio	6.16			107	199225	54.56			
2	Nitrobenzene	6.37			77	205156	26.67			
2	Isophorone	6.66			82	364051	28.00			
2	2-Nitrophenol	6.78			139	85776	25.42			
2	2,4-Dimethylphenol	6.83			122	143998	26.21			
2	bis(2-Chloroethoxy)methane	6.95			93	186251	26.87			
2	2,4-Dichlorophenol	7.08			162	139134	25.58			
2	1,2,4-Trichlorobenzene	7.19			180	152681	24.35			
2	Benzoic acid	7.01			122	103430	26.33			
2	Naphthalene	7.27			128	472070	25.11			
2	4-Chloroaniline	7.37			127	139730	24.22			
2	Hexachlorobutadiene	7.50			225	90765	23.81			
2	4-Chloro-3-methylphenol	7.98			107	144746	27.57			
2	2-Methylnaphthalene	8.15			142	314770	25.18			
3	Hexachlorocyclopentadiene	8.44			237	107335	27.49			
3	2,4,6-Trichlorophenol	8.54			196	101439	26.16			
3	2,4,5-Trichlorophenol	8.59			196	107510	25.47			
3	2-Chloronaphthalene	8.77			162	300386	26.34			
3	2-Nitroaniline	8.94			65	101380	30.30			
3	Dimethyl Phthalate	9.21			163	336815	27.07			
3	Acenaphthylene	9.30			152	468551	26.56			
3	2,6-Dinitrotoluene	9.29			165	79849	26.03			
3	3-Nitroaniline	9.47			138	69773	29.82			
3	Acenaphthene	9.54			154	262491	25.05			
3	2,4-Dinitrophenol	9.58			184	102392	54.35			
3	Dibenzofuran	9.73			168	422358	26.41			
3	4-Nitrophenol	9.68			109	82881	50.62			
3	2,4-Dinitrotoluene	9.78			165	101160	27.47			
3	Fluorene	10.17			166	327059	26.11			
3	Diethyl Phthalate	10.08			149	346213	28.02			
3	4-Chlorophenyl Phenyl Ether	10.16			204	164656	25.62			
3	4-Nitroaniline	10.25			138	64059	28.31			
4	2-Methyl-4,6-dinitrophenol	10.28			198	65089	25.36			
4	N-Nitrosodiphenylamine	10.32			169	225358	25.03			
4	Azobenzene	10.35			77	428058	27.11			
4	4-Bromophenyl Phenyl Ether	10.77			248	102219	24.77			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSS.I\S060424\S060560.D			**Instrument:**	MSS
Acqu Date:	04/24/2006 11:19	**Quant Date:**	04/24/2006 11:49	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	LWG0600549-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	10.95			284	115081	25.76			
4	Pentachlorophenol	11.18			266	155497	50.17			
4	Phenanthrene	11.36			178	450893	24.76			
4	Anthracene	11.42			178	456062	25.83			
4	Carbazole	11.63			167	402126	28.93			
4	Di-n-butyl Phthalate	12.14			149	587813	28.08			
4	Fluoranthene	13.03			202	527136	25.88			
5	Pyrene	13.39			202	518578	23.47			
5	Butyl Benzyl Phthalate	14.58			149	244597	24.18			
5	Benz(a)anthracene	15.55			228	445648	24.53			
5	3,3'-Dichlorobenzidine	15.54			252	81387	21.26			
5	Chrysene	15.63			228	410570**m**	24.11			
5	Bis(2-ethylhexyl) Phthalate	15.74			149	300327	23.51			
5	Mirex	16.39			272	40774	11.63			
6	Di-n-octyl Phthalate	16.96			149	398264	22.34			
6	Benzo(b)fluoranthene	17.67			252	320249**m**	25.34			
6	Benzo(k)fluoranthene	17.72			252	312422	25.76			
6	Benzo(a)pyrene	18.28			252	255478	25.18			
6	Indeno(1,2,3-cd)pyrene	20.37			276	189134	22.80			
6	Dibenz(a,h)anthracene	20.40			278	142956	22.73			
6	Benzo(g,h,i)perylene	20.90			276	143801	21.70			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL1154
Method ID: MJ360
DataFile: C:\MSDCHEM\1\DATA\S060424\S060560.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
1,4-Dioxane		MS	AverageRF	30		0.543	0.563	3.7			
N-Nitrosodimethylamine		TRG	AverageRF	30		0.539	0.786	45.8 *			
Pyridine		TRG	AverageRF	30		1.449	1.475	1.8			
PGMEA		TRG	AverageRF	30		0.781	1.385	77.2 *			
2-Fluorophenol		SURR	AverageRF	30		1.199	1.222	1.9			
Phenol-d5		SURR	AverageRF	30		1.537	1.620	5.4			
Phenol	CCC	MS	AverageRF	20		1.695	1.738	2.6			
Aniline		TRG	AverageRF	30		1.513	1.569	3.7			
Bis(2-chloroethyl) Ether		TRG	AverageRF	30		1.330	1.360	2.3			
2-Chlorophenol		MS	AverageRF	30		1.315	1.400	6.5			
1,3-Dichlorobenzene		TRG	AverageRF	30		1.573	1.558	-1.0			
1,4-Dichlorobenzene	CCC	MS	AverageRF	20		1.608	1.565	-2.7			
Benzyl alcohol		TRG	AverageRF	30		0.756	0.831	9.9			
1,2-Dichlorobenzene		TRG	AverageRF	30		1.518	1.513	-0.4			
1-Methyl-2-pyrrolidinone		TRG	AverageRF	30		0.794	0.868	9.3			
2-Methylphenol		TRG	AverageRF	30		1.229	1.287	4.7			
Bis(2-chloroisopropyl) Ether		TRG	AverageRF	30		0.312	0.638	104.3*			
3- and 4-Methylphenol Coelution		TRG	AverageRF	30		0.768	0.838	9.1			
N-Nitrosodi-n-propylamine	SPCC	MS	AverageRF	30	0.05	1.073	1.208	12.5			
Hexachloroethane		TRG	AverageRF	30		0.641	0.679	6.0			
Nitrobenzene-d5		SURR	AverageRF	30		0.358	0.399	11.4			
Nitrobenzene		TRG	AverageRF	30		0.400	0.427	6.7			
Isophorone		TRG	AverageRF	30		0.677	0.758	12.0			
2-Nitrophenol	CCC	TRG	AverageRF	20		0.176	0.179	1.7			
2,4-Dimethylphenol		TRG	AverageRF	30		0.286	0.300	4.8			
bis(2-Chloroethoxy)methane		TRG	AverageRF	30		0.361	0.388	7.5			
Benzoic acid		TRG	Linear	30		0.178	0.215		26.33	25.00	5.3
2,4-Dichlorophenol	CCC	TRG	AverageRF	20		0.283	0.290	2.3			
1,2,4-Trichlorobenzene		MS	AverageRF	30		0.326	0.318	-2.6			
Naphthalene		TRG	AverageRF	30		0.979	0.983	0.4			
4-Chloroaniline		TRG	AverageRF	30		0.300	0.291	-3.1			
Hexachlorobutadiene	CCC	TRG	AverageRF	20		0.198	0.189	-4.8			
4-Chloro-3-methylphenol		MS	AverageRF	30		0.273	0.301	10.3			
2-Methylnaphthalene		TRG	AverageRF	30		0.651	0.655	0.7			
Hexachlorocyclopentadiene	SPCC	TRG	AverageRF	30	0.05	0.366	0.402	10.0			
2,4,6-Trichlorophenol	CCC	TRG	AverageRF	20		0.363	0.380	4.7			
2,4,5-Trichlorophenol		TRG	AverageRF	30		0.396	0.403	1.9			
2-Fluorobiphenyl		SURR	AverageRF	30		1.212	1.230	1.5			
2-Chloronaphthalene		TRG	AverageRF	30		1.069	1.126	5.3			
2-Nitroaniline		TRG	AverageRF	30		0.313	0.380	21.2			
Dimethyl Phthalate		TRG	AverageRF	30		1.166	1.262	8.3			
2,6-Dinitrotoluene		TRG	AverageRF	30		0.287	0.299	4.1			
Acenaphthylene		TRG	AverageRF	30		1.653	1.756	6.2			
3-Nitroaniline		TRG	AverageRF	30		0.219	0.262	19.3			
Acenaphthene	CCC	MS	AverageRF	20		0.982	0.984	0.2			
2,4-Dinitrophenol	SPCC	TRG	AverageRF	30	0.05	0.177	0.192	8.7			
4-Nitrophenol	SPCC	MS	AverageRF	30	0.05	0.153	0.155	1.2			
Dibenzofuran		TRG	AverageRF	30		1.499	1.583	5.6			

3 Compounds Failed CCV Criteria

Calibration Verification Report

Calibration ID: CAL1154
Method ID: MJ360
DataFile: C:\MSDCHEM\1\DATA\S060424\S060560.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
2,4-Dinitrotoluene		MS	AverageRF	30		0.345	0.379	9.9			
Diethyl Phthalate		TRG	AverageRF	30		1.158	1.298	12.1			
4-Chlorophenyl Phenyl Ether		TRG	AverageRF	30		0.602	0.617	2.5			
Fluorene		TRG	AverageRF	30		1.174	1.226	4.4			
4-Nitroaniline		TRG	AverageRF	30		0.212	0.240	13.2			
2-Methyl-4,6-dinitrophenol		TRG	AverageRF	30		0.138	0.140	1.4			
N-Nitrosodiphenylamine	CCC	TRG	AverageRF	30		0.483	0.484	0.1			
Azobenzene		TRG	AverageRF	30		0.847	0.919	8.5			
2,4,6-Tribromophenol		SURR	AverageRF	30		0.123	0.123	0.6			
4-Bromophenyl Phenyl Ether		TRG	AverageRF	30		0.221	0.219	-0.9			
Hexachlorobenzene		TRG	AverageRF	30		0.240	0.247	3.0			
Pentachlorophenol	CCC	MS	AverageRF	20		0.166	0.167	0.3			
Phenanthrene		TRG	AverageRF	30		0.977	0.968	-1.0			
Anthracene		TRG	AverageRF	30		0.947	0.979	3.3			
Carbazole		TRG	AverageRF	30		0.746	0.863	15.7			
Di-n-butyl Phthalate		TRG	AverageRF	30		1.123	1.262	12.3			
Fluoranthene	CCC	TRG	AverageRF	20		1.093	1.132	3.5			
Pyrene		MS	AverageRF	30		1.334	1.252	-6.1			
Terphenyl-d14		SURR	AverageRF	30		0.914	0.871	-4.6			
Butyl Benzyl Phthalate		TRG	Linear	30		0.577	0.591		24.18	25.00	-3.3
3,3'-Dichlorobenzidine		TRG	Linear	30		0.220	0.197		21.26	25.00	-15.0
Benz(a)anthracene		TRG	AverageRF	30		1.097	1.076	-1.9			
Chrysene		TRG	AverageRF	30		1.028	0.991	-3.5			
Bis(2-ethylhexyl) Phthalate		TRG	AverageRF	30		0.771	0.725	-5.9			
Mirex		TRG	AverageRF	30		0.212	0.197	-7.0			
Di-n-octyl Phthalate	CCC	TRG	AverageRF	20		2.435	2.176	-10.7			
Benzo(b)fluoranthene		TRG	AverageRF	30		1.726	1.750	1.3			
Benzo(k)fluoranthene		TRG	AverageRF	30		1.657	1.707	3.0			
Benzo(a)pyrene	CCC	TRG	AverageRF	20		1.386	1.396	0.7			
Indeno(1,2,3-cd)pyrene		TRG	AverageRF	30		1.133	1.033	-8.8			
Dibenz(a,h)anthracene		TRG	AverageRF	30		0.859	0.781	-9.1			
Benzo(g,h,i)perylene		TRG	AverageRF	30		0.905	0.786	-13.2			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	20.0
Calculated Average %D =	8.4

3 Compounds Failed CCV Criteria

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	-0.02
2	N	1,4-Dioxane	0.543	0.563	-3.7	99	0.00
3	T	N-Nitrosodimethylamine	0.539	0.786	-45.8#	145	0.00
4	T	Pyridine	1.449	1.475	-1.8	100	0.00
5	N	PGMEA	0.781	1.385	-77.3#	174#	-0.02
6	S	2-Fluorophenol	1.199	1.222	-1.9	97	-0.02
7	S	Phenol-d5	1.537	1.620	-5.4	102	-0.03
8	T	Aniline	1.513	1.569	-3.7	101	-0.02
9	CMT	Phenol	1.695	1.738	-2.5#	101	-0.03
10	T	Bis(2-chloroethyl)ether	1.330	1.360	-2.3	101	-0.03
11	MT	2-Chlorophenol	1.315	1.400	-6.5	102	-0.02
12	T	1,3-Dichlorobenzene	1.573	1.558	1.0	97	-0.02
13	CMT	1,4-Dichlorobenzene	1.608	1.565	2.7#	96	-0.02
14	T	Benzyl alcohol	0.756	0.831	-9.9	102	-0.03
15	T	1,2-Dichlorobenzene	1.518	1.513	0.3	98	-0.02
16	N	N-Methyl pyrrolidine (NMP)	0.794	0.868	-9.3	104	-0.05
17	T	2-Methylphenol	1.229	1.287	-4.7	102	-0.03
18	T	Bis(2-chloroisopropyl)ether	0.312	0.638	-104.5#	209#	-0.02
19	PMT	N-Nitrosodi-n-propylamine	1.073	1.208	-12.6	109	-0.03
20	T	Hexachloroethane	0.641	0.679	-5.9	104	-0.02
21	T	3- and 4-Methylphenol Coelu	0.768	0.838	-9.1	104	-0.03
22	I	Naphthalene-d8	1.000	1.000	0.0	104	-0.03
23	S	Nitrobenzene-d5	0.358	0.399	-11.5	109	-0.02
24	T	Nitrobenzene	0.400	0.427	-6.7	105	-0.03
25	T	Isophorone	0.677	0.758	-12.0	110	-0.03
26	CT	2-Nitrophenol	0.176	0.179	-1.7#	103	-0.03
27	T	2,4-Dimethylphenol	0.286	0.300	-4.9	105	-0.03
28	T	Bis(2-chloroethoxy)methane	0.361	0.388	-7.5	106	-0.03
29	CT	2,4-Dichlorophenol	0.283	0.290	-2.5#	102	-0.03
30	MT	1,2,4-Trichlorobenzene	0.326	0.318	2.5	100	-0.03
31	T	Benzoic acid	0.178	0.215	-20.8	110	-0.05
32	T	Naphthalene	0.979	0.983	-0.4	103	-0.03
33	T	4-Chloroaniline	0.300	0.291	3.0	114	-0.03
34	CT	Hexachlorobutadiene	0.198	0.189	4.5#	98	-0.03
35	CMT	4-Chloro-3-methylphenol	0.273	0.301	-10.3#	109	-0.03
36	T	2-Methylnaphthalene	0.651	0.655	-0.6	103	-0.03
37	I	Acenaphthene-d10	1.000	1.000	0.0	103	-0.03
38	PT	Hexachlorocyclopentadiene	0.366	0.402	-9.8	109	-0.03
39	CT	2,4,6-Trichlorophenol	0.363	0.380	-4.7#	105	-0.03
40	T	2,4,5-Trichlorophenol	0.396	0.403	-1.8	104	-0.03
41	S	2-Fluorobiphenyl	1.212	1.230	-1.5	101	-0.03
42	T	2-Chloronaphthalene	1.069	1.126	-5.3	106	-0.03
43	T	2-Nitroaniline	0.313	0.380	-21.4	122	-0.03
44	T	Dimethylphthalate	1.166	1.262	-8.2	108	-0.03
45	T	Acenaphthylene	1.653	1.756	-6.2	106	-0.03
46	T	2,6-Dinitrotoluene	0.287	0.299	-4.2	103	-0.03
47	T	3-Nitroaniline	0.219	0.262	-19.6	124	-0.03
48	CMT	Acenaphthene	0.982	0.984	-0.2#	103	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	PT	2,4-Dinitrophenol	0.177	0.192	-8.5	112	-0.03
50	T	Dibenzofuran	1.499	1.583	-5.6	107	-0.03
51	PMT	4-Nitrophenol	0.153	0.155	-1.3	106	-0.04
52	MT	2,4-Dinitrotoluene	0.345	0.379	-9.9	108	-0.03
53	T	Fluorene	1.174	1.226	-4.4	104	-0.03
54	T	Diethylphthalate	1.158	1.298	-12.1	111	-0.04
55	T	4-Chlorophenyl phenyl ether	0.602	0.617	-2.5	103	-0.03
56	T	4-Nitroaniline	0.212	0.240	-13.2	113	-0.04
57	I	Phenanthrene-d10	1.000	1.000	0.0	107	-0.03
58	T	2-Methyl-4,6-dinitrophenol	0.138	0.140	-1.4	108	-0.03
59	CT	N-Nitrosodiphenylamine	0.483	0.484	-0.2#	105	-0.03
60	N	Azobenzene	0.847	0.919	-8.5	114	-0.03
61	S	2,4,6-Tribromophenol	0.123	0.123	0.0	105	-0.03
62	T	4-Bromophenyl phenyl ether	0.221	0.219	0.9	103	-0.03
63	T	Hexachlorobenzene	0.240	0.247	-2.9	108	-0.03
64	CMT	Pentachlorophenol	0.166	0.167	-0.6#	111	-0.03
65	T	Phenanthrene	0.977	0.968	0.9	106	-0.04
66	T	Anthracene	0.947	0.979	-3.4	109	-0.03
67	N	Carbazole	0.746	0.863	-15.7	130	-0.03
68	T	Di-n-butylphthalate	1.123	1.262	-12.4	113	-0.03
69	CT	Fluoranthene	1.093	1.132	-3.6#	106	-0.04
70	I	Chrysene-d12	1.000	1.000	0.0	108	-0.04
71	N	Benzidine	0.022	0.000	100.0#	7#	-0.02
72	MT	Pyrene	1.334	1.252	6.1	106	-0.04
73	S	Terphenyl-d14	0.914	0.871	4.7	105	-0.04
74	T	Butylbenzylphthalate	0.577	0.591	-2.4	112	-0.04
75	T	Benz(a)anthracene	1.097	1.076	1.9	105	-0.05
76	T	3,3'-Dichlorobenzidine	0.220	0.197	10.5	95	-0.04
77	T	Chrysene	1.028	0.991	3.6	104	0.04
78	T	Bis(2-ethylhexyl)phthalate	0.771	0.725	6.0	103	-0.05
79	N	Mirex	0.212	0.197	7.1	102	-0.05
80	I	Perylene-d12	1.000	1.000	0.0	115	-0.04
81	CT	Di-n-octylphthalate	2.435	2.176	10.6#	100	-0.05
82	T	Benzo(b)fluoranthene	1.726	1.750	-1.4	106	-0.05
83	T	Benzo(k)fluoranthene	1.657	1.707	-3.0	107	-0.05
84	CT	Benzo(a)pyrene	1.386	1.396	-0.7#	106	-0.05
85	T	Indeno(1,2,3-c,d)pyrene	1.133	1.033	8.8	104	-0.06
86	T	Dibenz(a,h)anthracene	0.859	0.781	9.1	101	-0.06
87	T	Benzo(g,h,i)perylene	0.905	0.786	13.1	103	-0.07

(#) = Out of Range SPCC's out = 0 CCC's out = 13

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:45:17 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	190080	40.00	mg/L	-0.02
22) Naphthalene-d8	7.24	136	768494	40.00	mg/L	-0.03
37) Acenaphthene-d10	9.49	164	426863	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	745373	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	662583	40.00	mg/L	-0.04
80) Perylene-d12	18.39	264	292864	40.00	mg/L	-0.04
System Monitoring Compounds						
6) 2-Fluorophenol	4.06	112	145221	25.49	mg/L	-0.02
Spiked Amount 50.000			Recovery =	50.98%		
7) Phenol-d5	5.19	99	192473	26.35	mg/L	-0.03
Spiked Amount 50.000			Recovery =	52.70%		
23) Nitrobenzene-d5	6.35	82	191599	27.85	mg/L	-0.02
Spiked Amount 50.000			Recovery =	55.70%		
41) 2-Fluorobiphenyl	8.64	172	328256	25.37	mg/L	-0.03
Spiked Amount 50.000			Recovery =	50.74%		
61) 2,4,6-Tribromophenol	10.49	330	57516	25.16	mg/L	-0.03
Spiked Amount 50.000			Recovery =	50.32%		
73) Terphenyl-d14	13.65	244	360796	23.84	mg/L	-0.04
Spiked Amount 50.000			Recovery =	47.68%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	66930m	25.92	mg/L	
3) N-Nitrosodimethylamine	2.73	42	93353m	36.45	mg/L	
4) Pyridine	2.74	79	175252m	25.45	mg/L	
5) PGMEA	3.98	43	164501	44.31	mg/L #	73
8) Aniline	5.25	93	186434	25.92	mg/L	94
9) Phenol	5.21	94	206531	25.65	mg/L #	74
10) Bis(2-chloroethyl)ether	5.31	93	161626	25.56	mg/L	94
11) 2-Chlorophenol	5.38	128	166351	26.62	mg/L	99
12) 1,3-Dichlorobenzene	5.56	146	185042	24.76	mg/L	97
13) 1,4-Dichlorobenzene	5.62	146	185931	24.33	mg/L	97
14) Benzyl alcohol	5.81	108	98688	27.47	mg/L #	77
15) 1,2-Dichlorobenzene	5.87	146	179716	24.91	mg/L	97
16) N-Methyl pyrrolidine (NMP)	5.91	99	103174m	27.33	mg/L	
17) 2-Methylphenol	5.98	108	152898	26.18	mg/L	100
18) Bis(2-chloroisopropyl)ethe	5.99	45	75748	51.07	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.18	70	143471	28.14	mg/L #	68
20) Hexachloroethane	6.26	117	80708	26.50	mg/L	92
21) 3- and 4-Methylphenol Coel	6.16	107	199225	54.56	mg/L #	92
24) Nitrobenzene	6.37	77	205156	26.67	mg/L #	82
25) Isophorone	6.66	82	364051	28.00	mg/L	96
26) 2-Nitrophenol	6.78	139	85776	25.42	mg/L #	80
27) 2,4-Dimethylphenol	6.83	122	143998	26.21	mg/L	91
28) Bis(2-chloroethoxy)methane	6.95	93	186251	26.87	mg/L	100
29) 2,4-Dichlorophenol	7.08	162	139134	25.58	mg/L	98
30) 1,2,4-Trichlorobenzene	7.19	180	152681	24.35	mg/L	99
31) Benzoic acid	7.01	122	103430	26.33	mg/L #	83
32) Naphthalene	7.27	128	472070	25.11	mg/L	99
33) 4-Chloroaniline	7.37	127	139730	24.22	mg/L #	94
34) Hexachlorobutadiene	7.50	225	90765	23.81	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:45:17 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

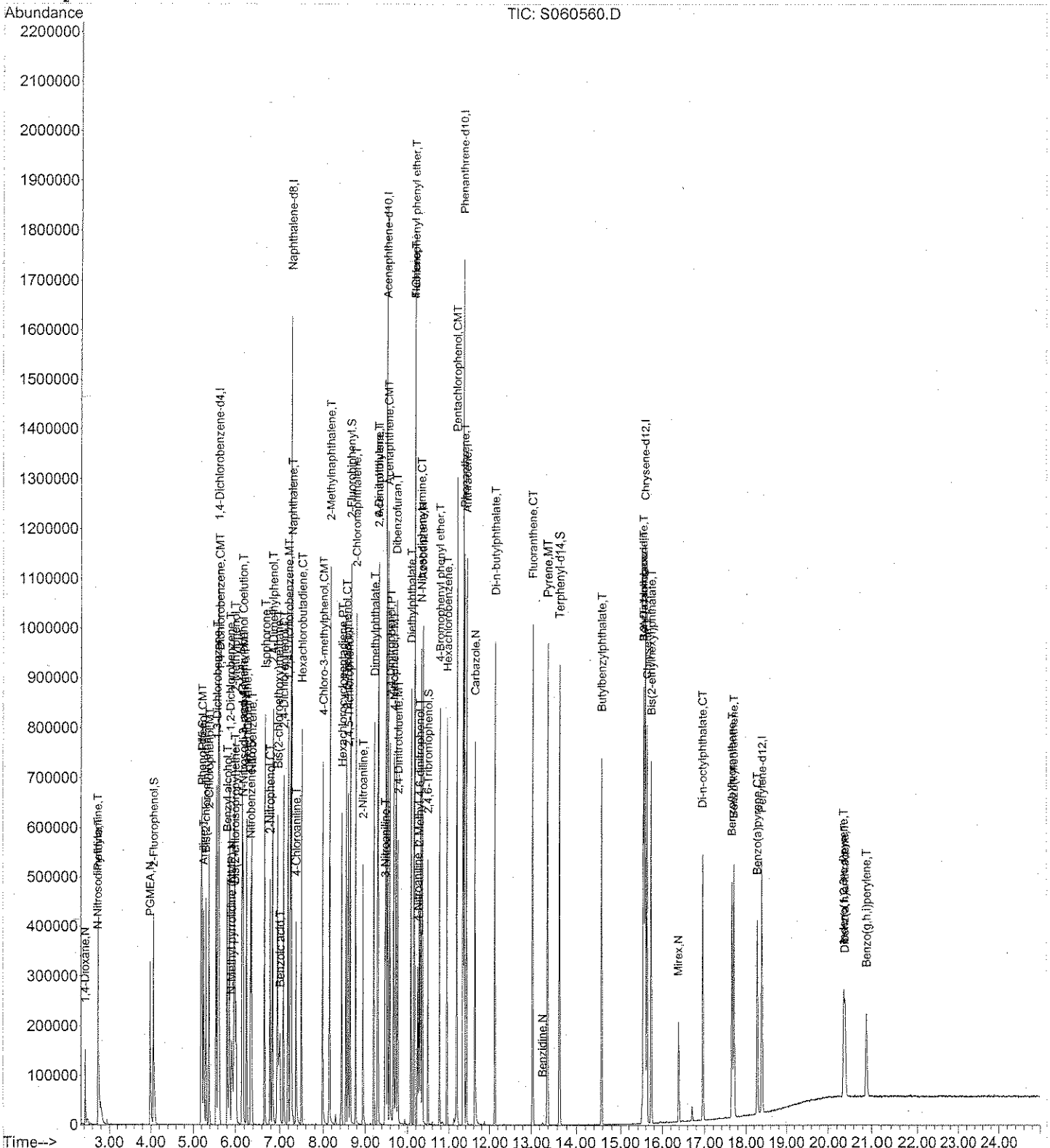
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	7.98	107	144746	27.57	mg/L		91
36)	2-Methylnaphthalene	8.15	142	314770	25.18	mg/L		98
38)	Hexachlorocyclopentadiene	8.44	237	107335	27.49	mg/L		99
39)	2,4,6-Trichlorophenol	8.54	196	101439	26.16	mg/L		99
40)	2,4,5-Trichlorophenol	8.59	196	107510	25.47	mg/L	#	93
42)	2-Chloronaphthalene	8.77	162	300386	26.34	mg/L		99
43)	2-Nitroaniline	8.94	65	101380	30.30	mg/L		89
44)	Dimethylphthalate	9.21	163	336815	27.07	mg/L	#	91
45)	Acenaphthylene	9.30	152	468551	26.56	mg/L		99
46)	2,6-Dinitrotoluene	9.29	165	79849	26.03	mg/L	#	53
47)	3-Nitroaniline	9.47	138	69773	29.82	mg/L	#	83
48)	Acenaphthene	9.54	154	262491	25.05	mg/L		97
49)	2,4-Dinitrophenol	9.58	184	102392	54.35	mg/L	#	80
50)	Dibenzofuran	9.73	168	422358	26.41	mg/L		95
51)	4-Nitrophenol	9.68	109	82881	50.62	mg/L	#	63
52)	2,4-Dinitrotoluene	9.78	165	101160	27.47	mg/L	#	80
53)	Fluorene	10.17	166	327059	26.11	mg/L		97
54)	Diethylphthalate	10.08	149	346213	28.02	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.16	204	164656	25.62	mg/L		96
56)	4-Nitroaniline	10.25	138	64059	28.31	mg/L	#	80
58)	2-Methyl-4,6-dinitrophenol	10.28	198	65089	25.36	mg/L		97
59)	N-Nitrosodiphenylamine	10.32	169	225358	25.03	mg/L		97
60)	Azobenzene	10.35	77	428058	27.11	mg/L		94
62)	4-Bromophenyl phenyl ether	10.77	248	102219	24.77	mg/L		98
63)	Hexachlorobenzene	10.95	284	115081	25.76	mg/L		98
64)	Pentachlorophenol	11.18	266	155497	50.17	mg/L		99
65)	Phenanthrene	11.36	178	450893	24.76	mg/L		99
66)	Anthracene	11.42	178	456062	25.83	mg/L		99
67)	Carbazole	11.63	167	402126	28.93	mg/L		100
68)	Di-n-butylphthalate	12.14	149	587813	28.08	mg/L	#	99
69)	Fluoranthene	13.03	202	527136	25.88	mg/L	#	95
71)	Benzidine	13.27	184	197	0.54	mg/L	#	66
72)	Pyrene	13.39	202	518578	23.47	mg/L		99
74)	Butylbenzylphthalate	14.58	149	244597	24.18	mg/L		92
75)	Benz(a)anthracene	15.55	228	445648	24.53	mg/L		98
76)	3,3'-Dichlorobenzidine	15.54	252	81387	21.26	mg/L		99
77)	Chrysene	15.63	228	410570m	24.11	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.74	149	300327	23.51	mg/L		98
79)	Mirex	16.39	272	40774	11.63	mg/L		96
81)	Di-n-octylphthalate	16.96	149	398264	22.34	mg/L		100
82)	Benzo(b)fluoranthene	17.67	252	320249m	25.34	mg/L		
83)	Benzo(k)fluoranthene	17.72	252	312422	25.76	mg/L	#	95
84)	Benzo(a)pyrene	18.28	252	255478	25.18	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.37	276	189134	22.80	mg/L	#	87
86)	Dibenz(a,h)anthracene	20.40	278	142956	22.73	mg/L	#	86
87)	Benzo(g,h,i)perylene	20.90	276	143801	21.70	mg/L	#	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:49 2006 Quant Results File: BA060422.RES

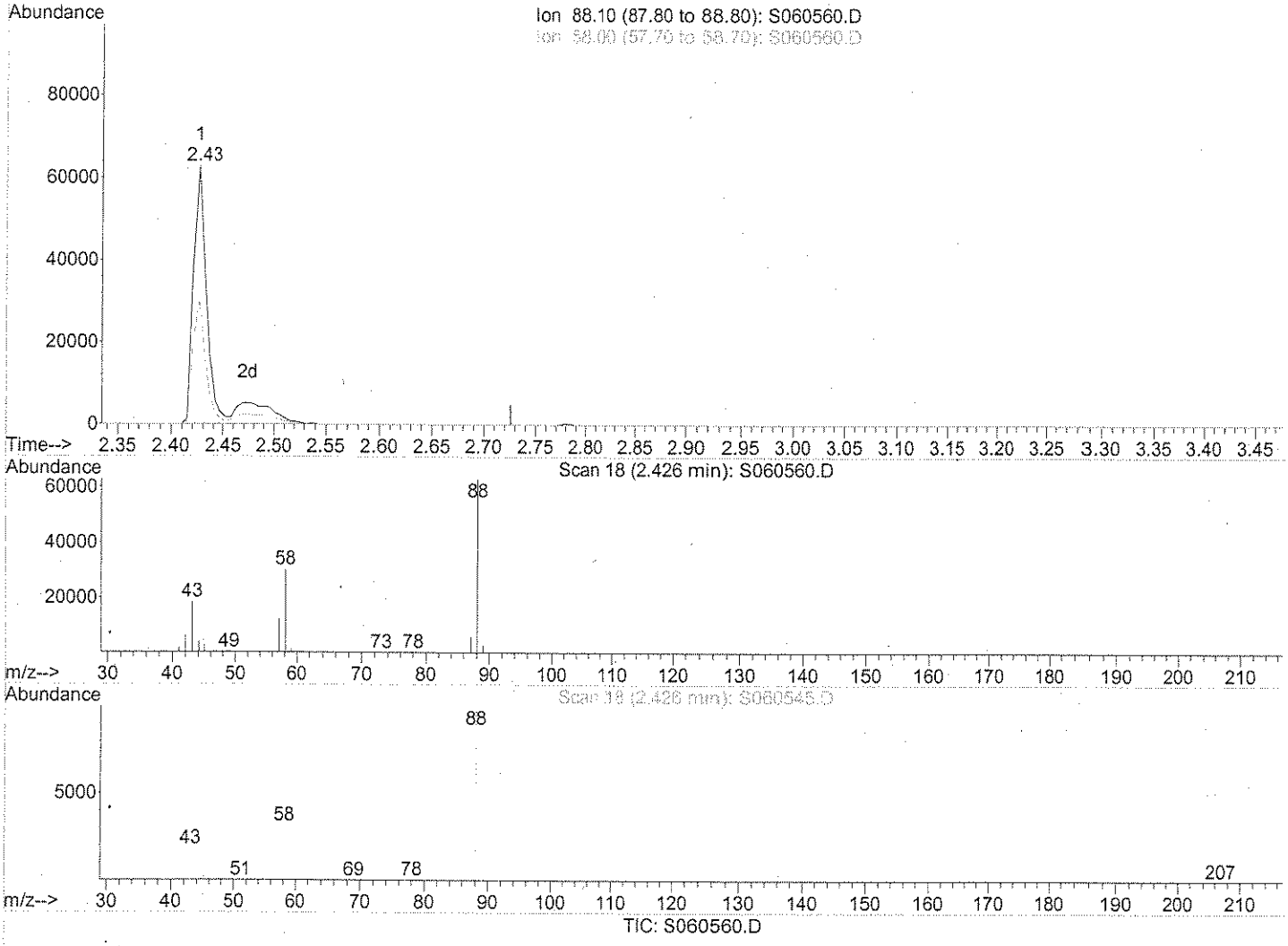
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(2) 1,4-Dioxane (N)

2.43min 25.92mg/L m

response 66930

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	37.96#
0.00	0.00	0.00
0.00	0.00	0.00

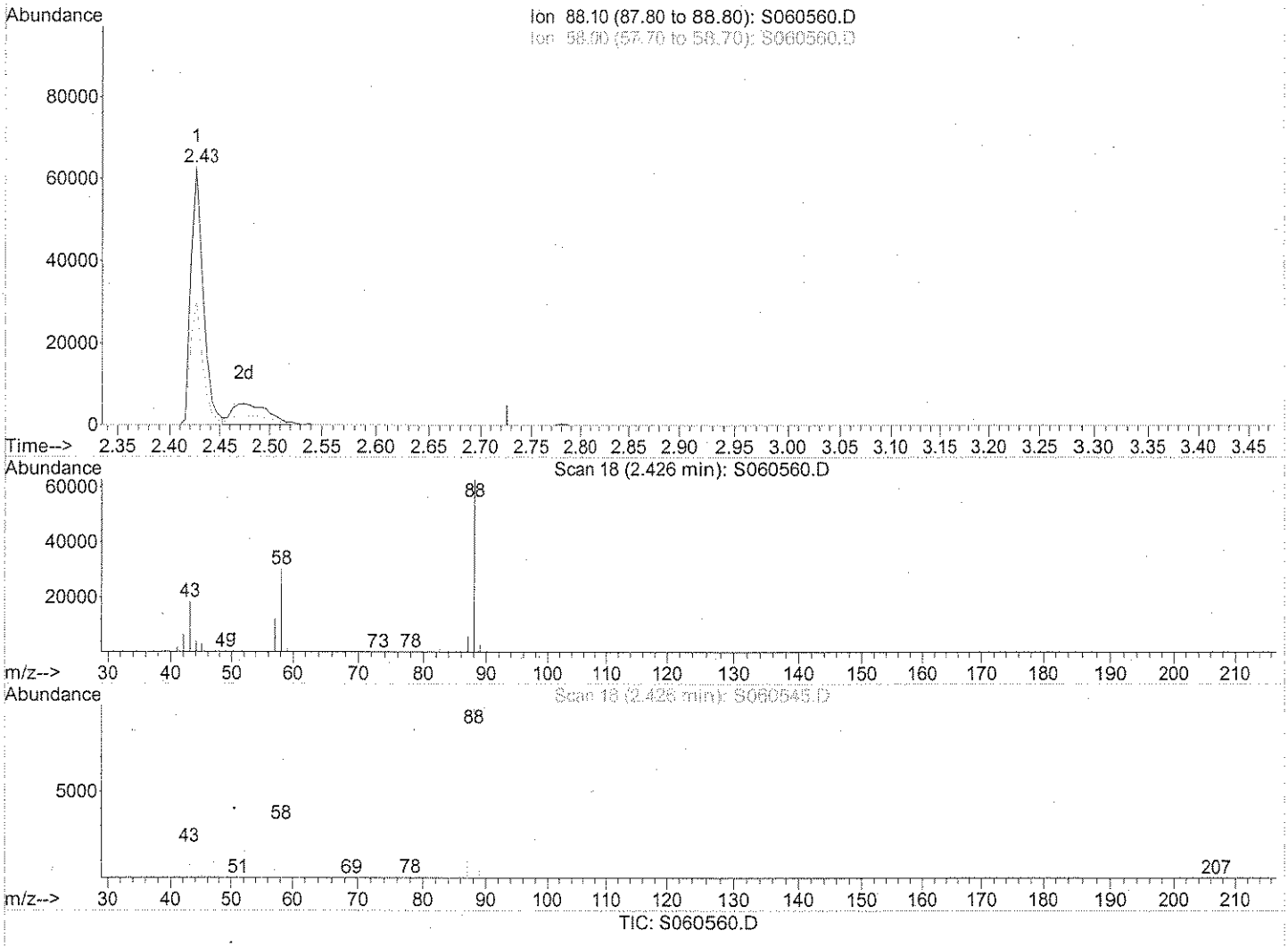
Spectra good 4/25/06

DM 4/28/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:45 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060560.D

(2) 1,4-Dioxane (N)

2.43min 20.79mg/L

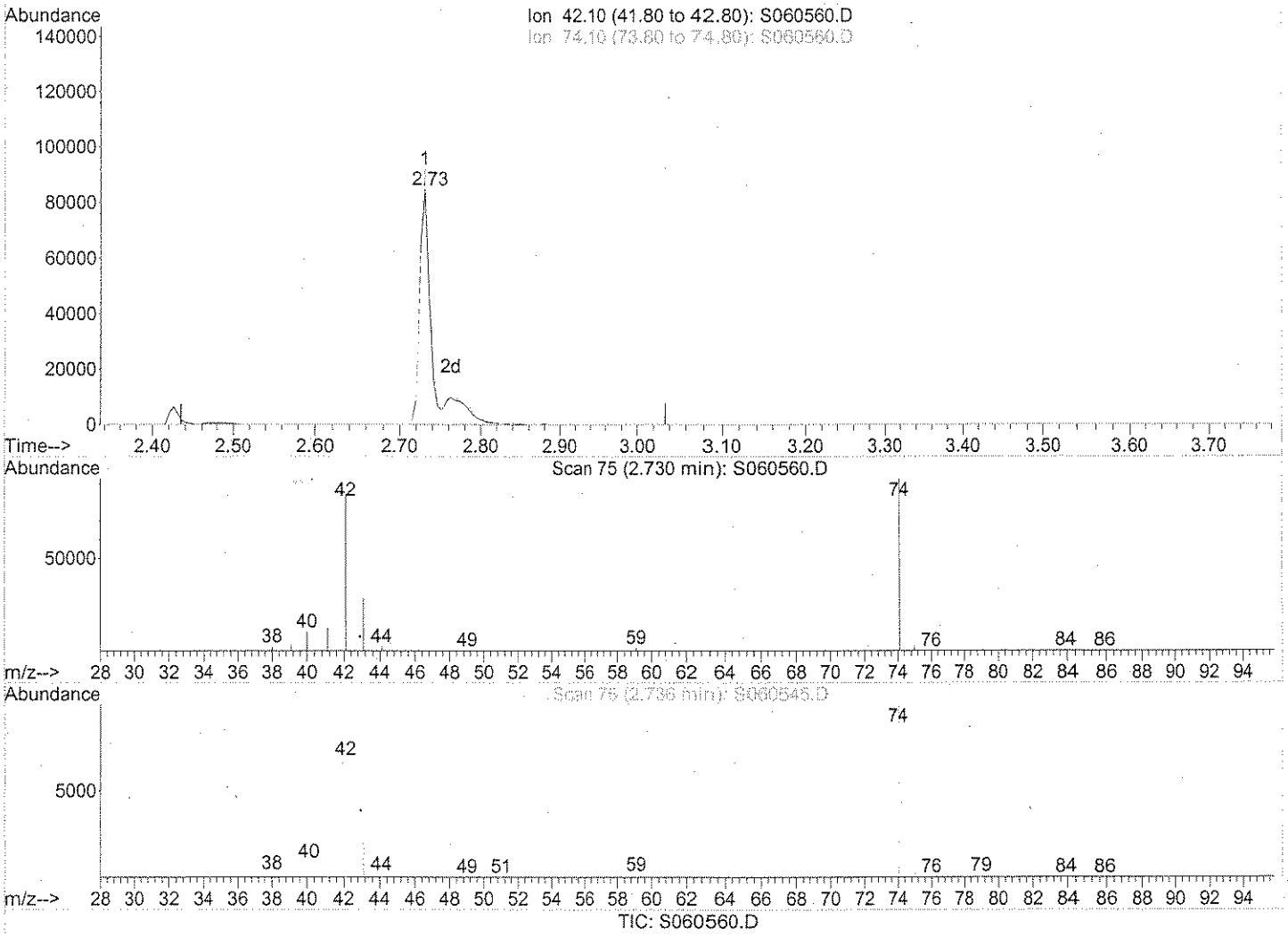
response 53695

Ion	Exp%	Act%
88.10	100	100
58.00	61.30	47.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(3) N-Nitrosodimethylamine (T)

2.73min 36.45mg/L m

response 93353

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	87.18#
0.00	0.00	0.00
0.00	0.00	0.00

Spike pair
4/25/06

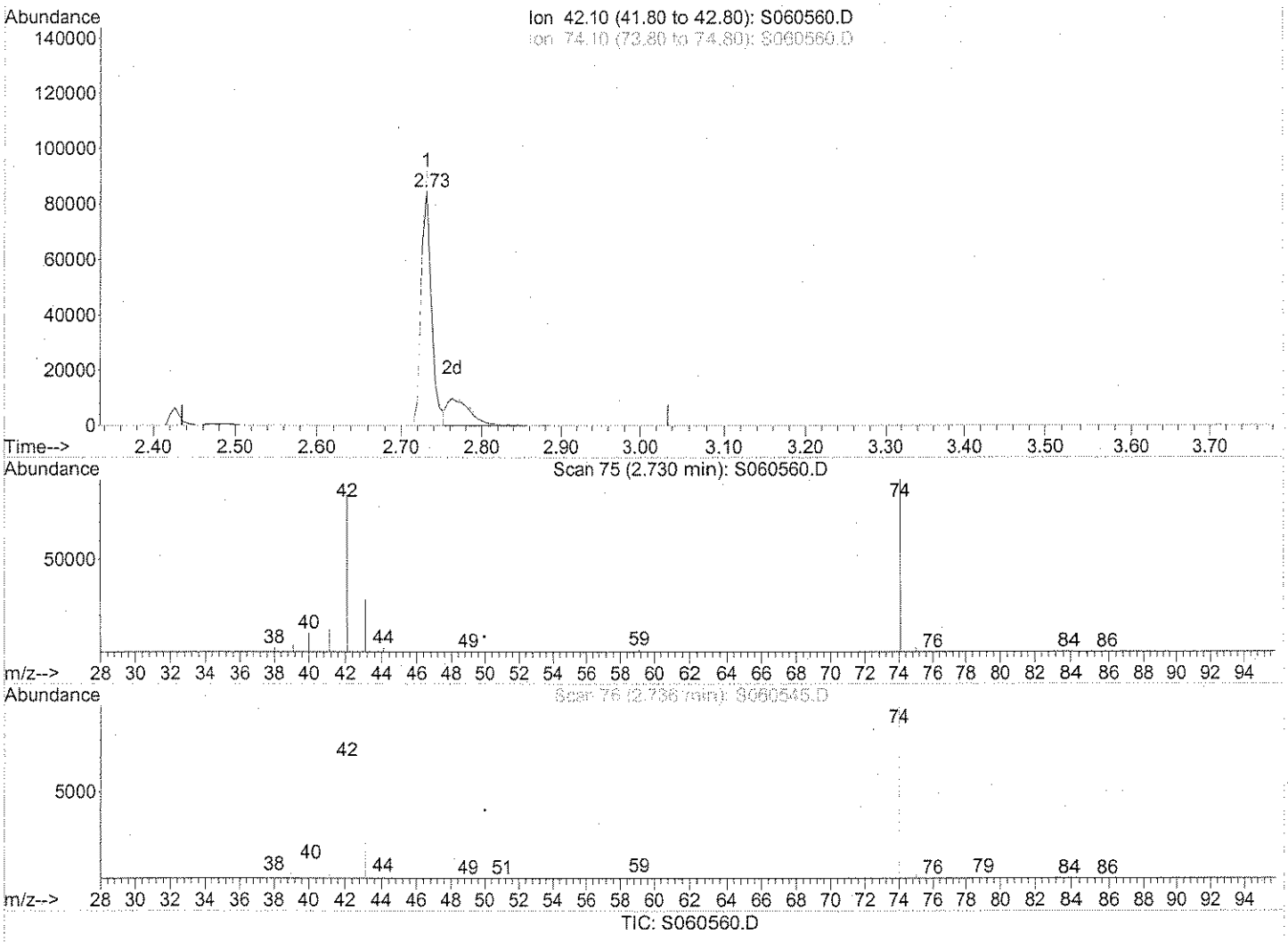
DA 4/28/06

S060560.D BA060422.M Mon Apr 24 11:47:29 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060560.D

(3) N-Nitrosodimethylamine (T)

2.73min 28.88mg/L

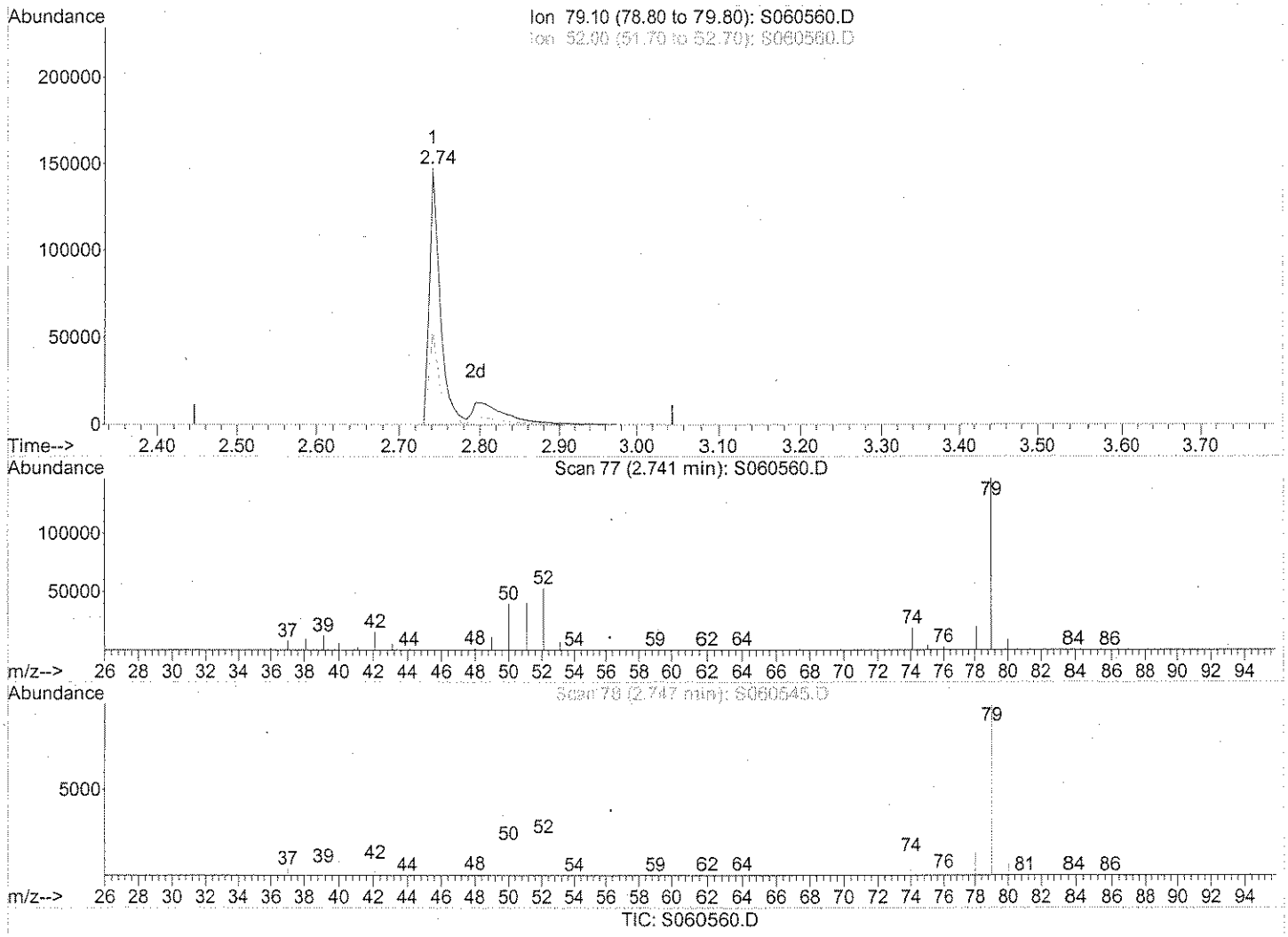
response 73961

Ion	Exp%	Act%
42.10	100	100
74.10	115.50	110.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060560.D

(4) Pyridine (T)

2.74min 25.45mg/L m

response 175252

Ion	Exp%	Act%
79.10	100	100
52.00	62.40	28.00#
0.00	0.00	0.00
0.00	0.00	0.00

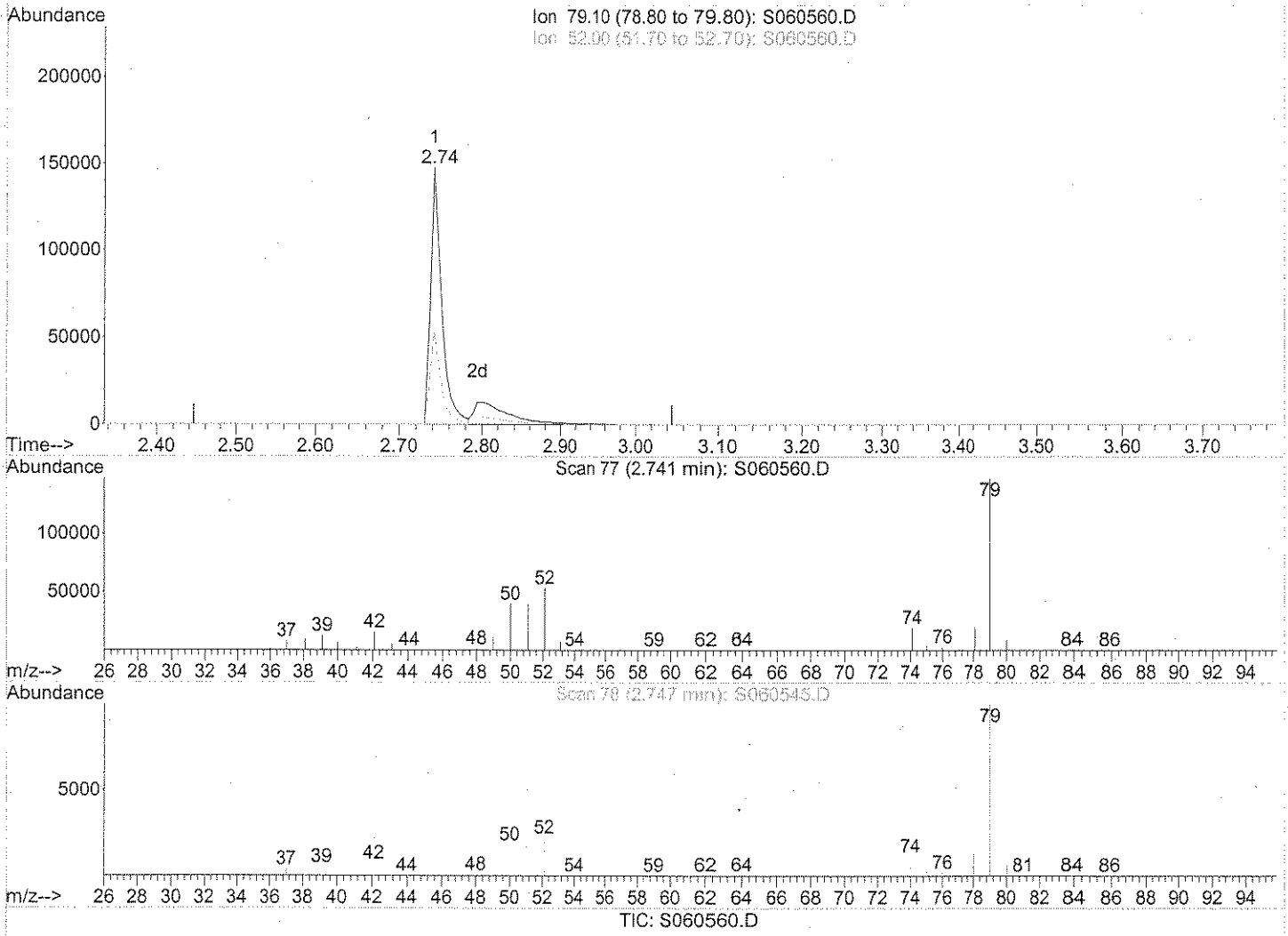
Split Peak
E. 4/25/06

ISM 4/28/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(4) Pyridine (T)

2.74min 20.00mg/L

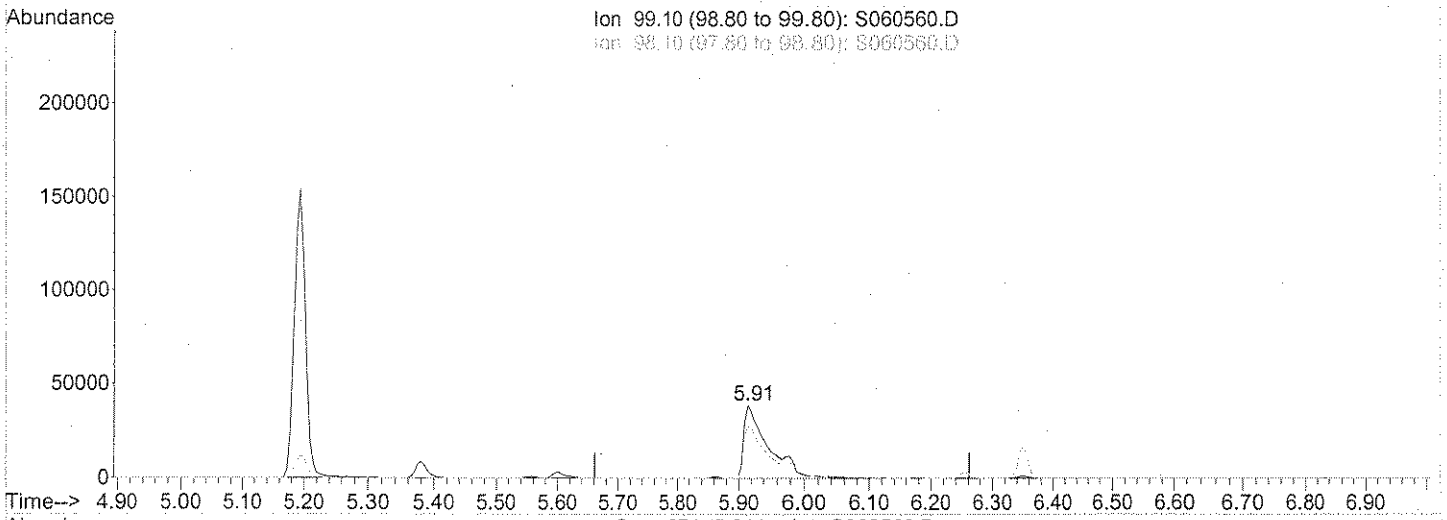
response 137745

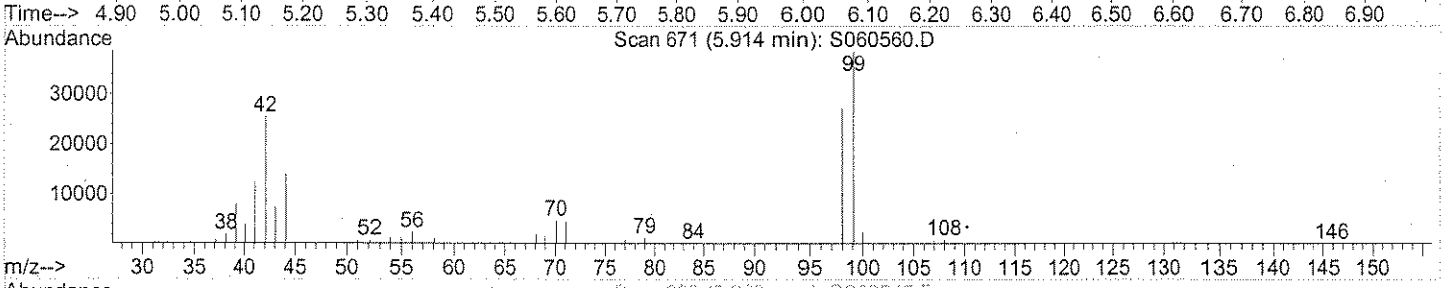
Ion	Exp%	Act%
79.10	100	100
52.00	62.40	35.62#
0.00	0.00	0.00
0.00	0.00	0.00

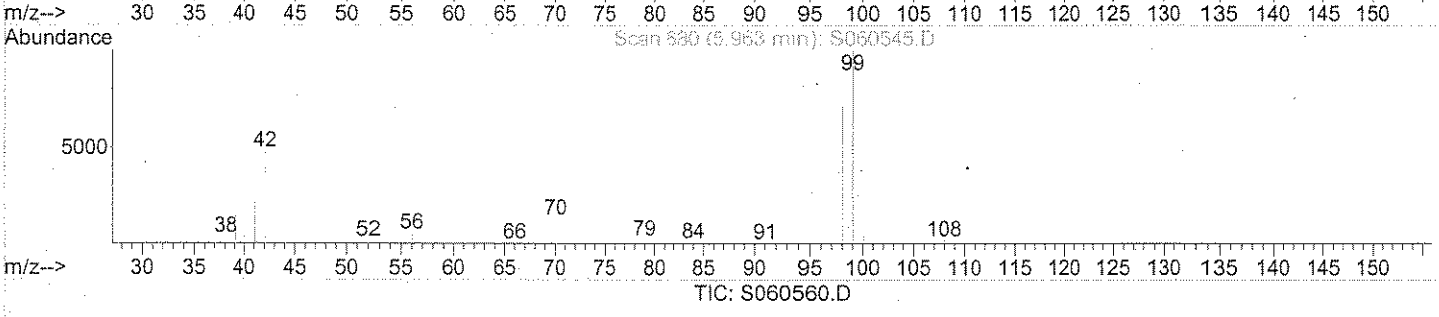
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:48 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Single Level Calibration







TIC: S060560.D

(16) N-Methyl pyrrolidine (NMP) (N)

5.91min 27.33mg/L m

response 103174

Ion	Exp%	Act%
99.10	100	100
98.10	72.00	62.82
0.00	0.00	0.00
0.00	0.00	0.00

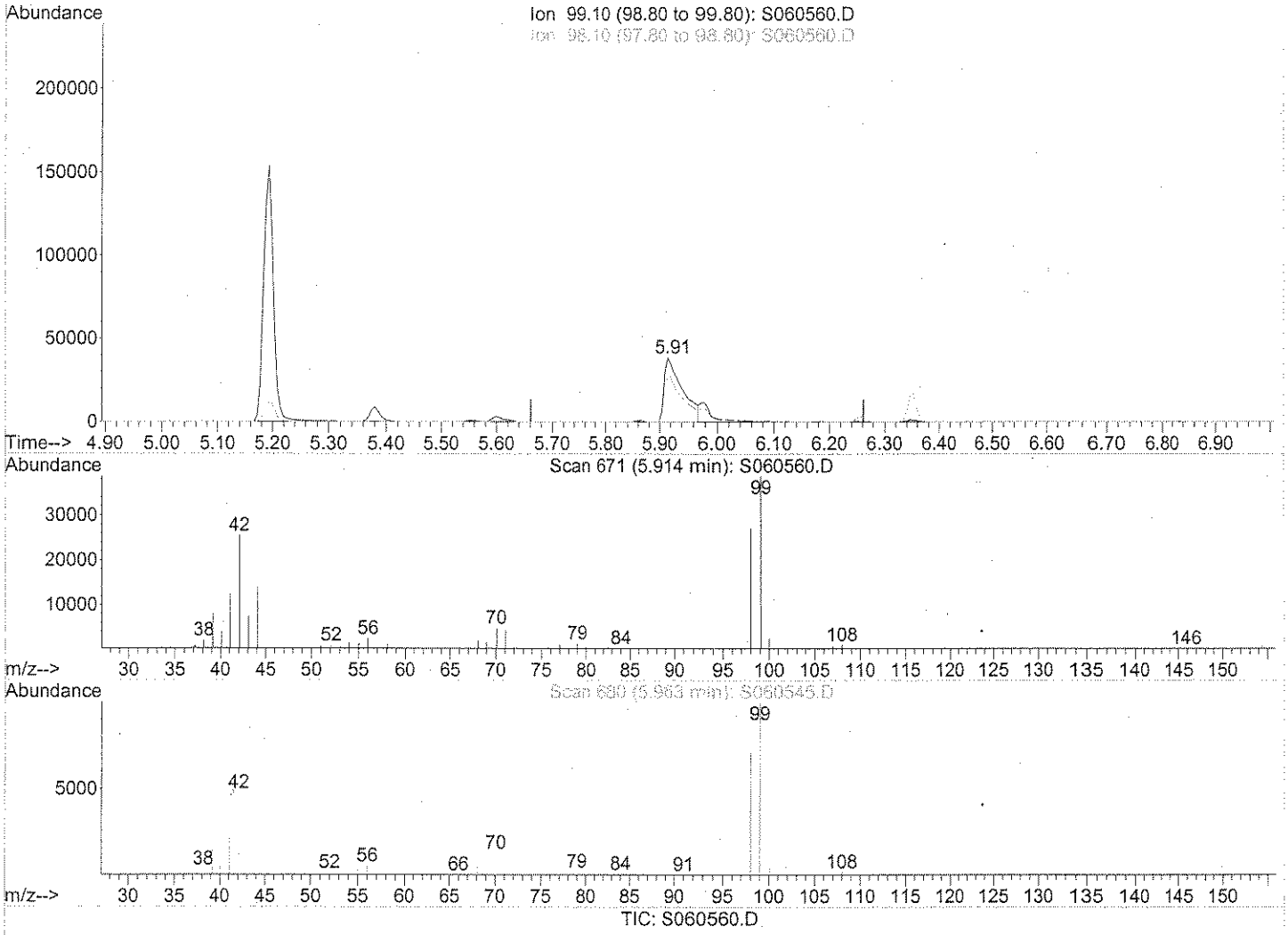
Split peak 4/25/06

DH 4/28/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:47 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Single Level Calibration



(16) N-Methyl pyrrolidine (NMP) (N)

5.91min 23.35mg/L

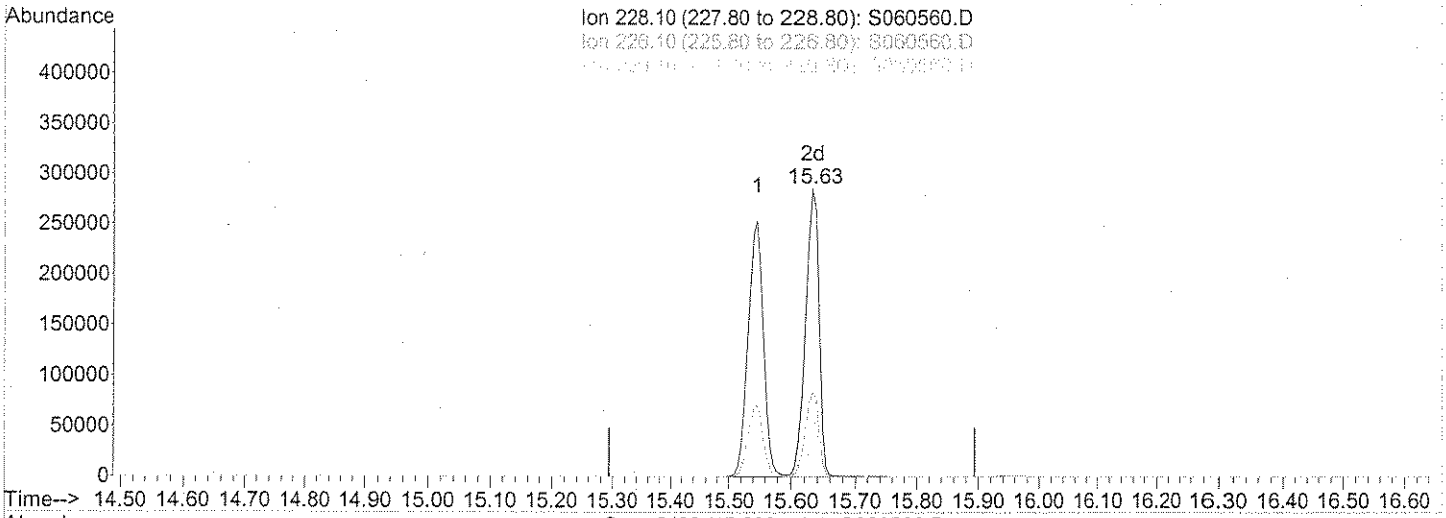
response 88145

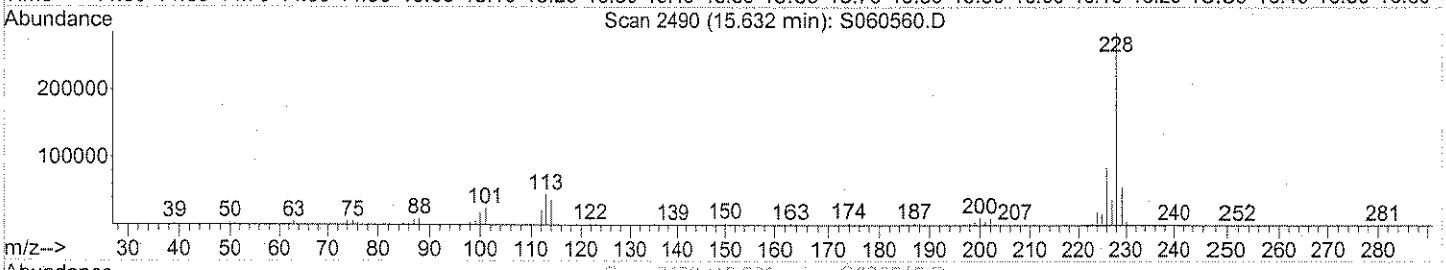
Ion	Exp%	Act%
99.10	100	100
98.10	72.00	73.53
0.00	0.00	0.00
0.00	0.00	0.00

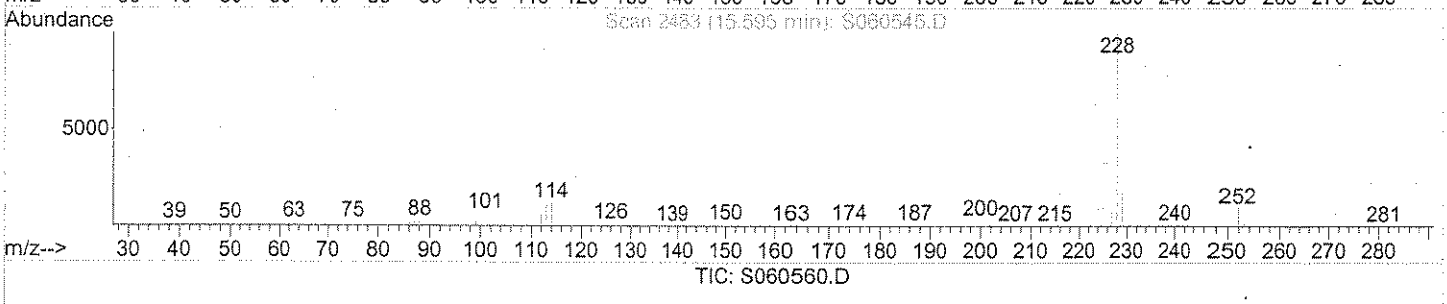
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:49 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060560.D

(77) Chrysene (T)

15.63min 24.11mg/L m

response 410570

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	30.34
229.10	19.40	21.55
0.00	0.00	0.00

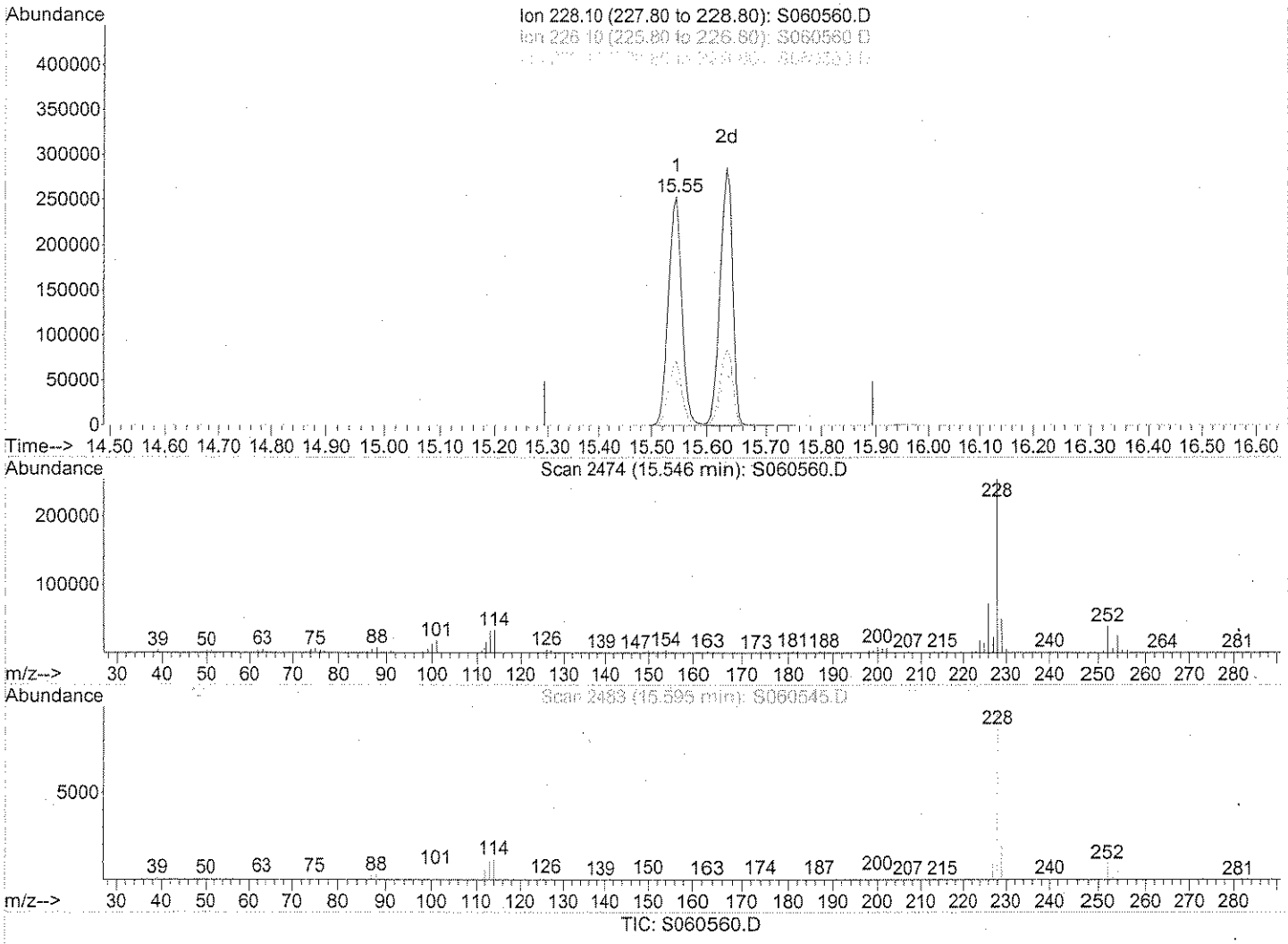
Wrong pump 4/25/06

MM 4/28/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:48 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



(77) Chrysene (T)

15.55min 26.17mg/L

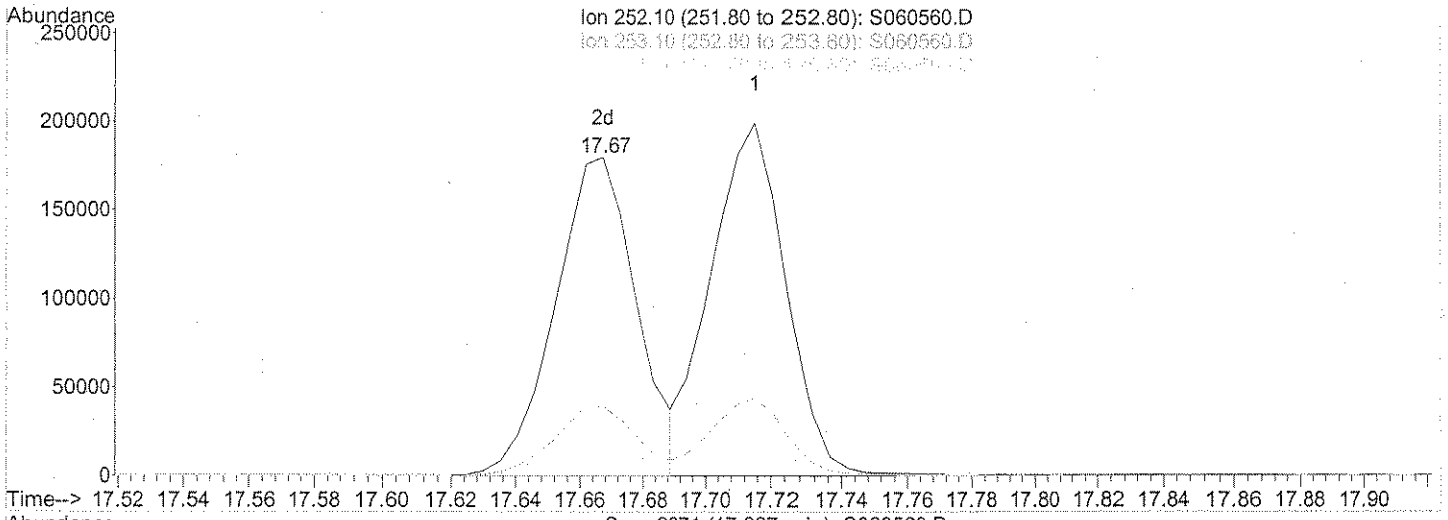
response 445648

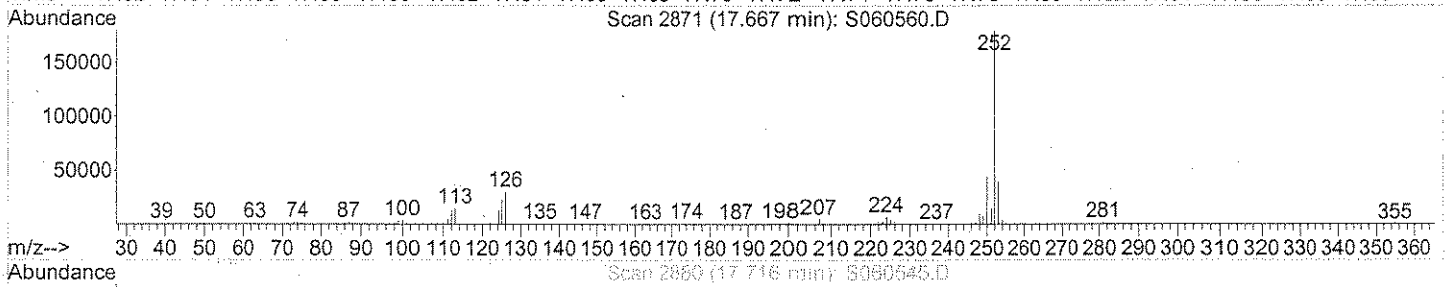
Ion	Exp%	Act%
228.10	100	100
226.10	29.10	27.95
229.10	19.40	19.85
0.00	0.00	0.00

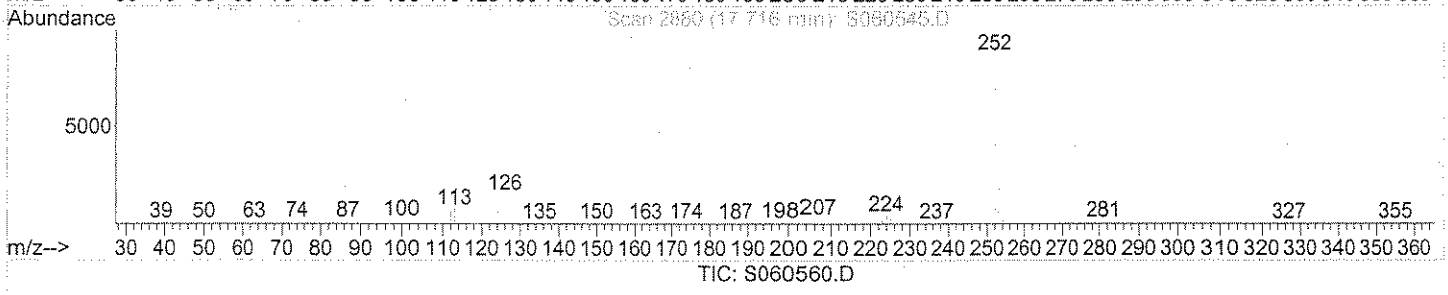
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:49 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration







TIC: S060560.D

(82) Benzo(b)fluoranthene (T)

17.67min 25.34mg/L m

response 320249

Ion	Exp%	Act%
252.10	100	100
253.10	21.90	20.95
125.10	18.10	12.79#
0.00	0.00	0.00

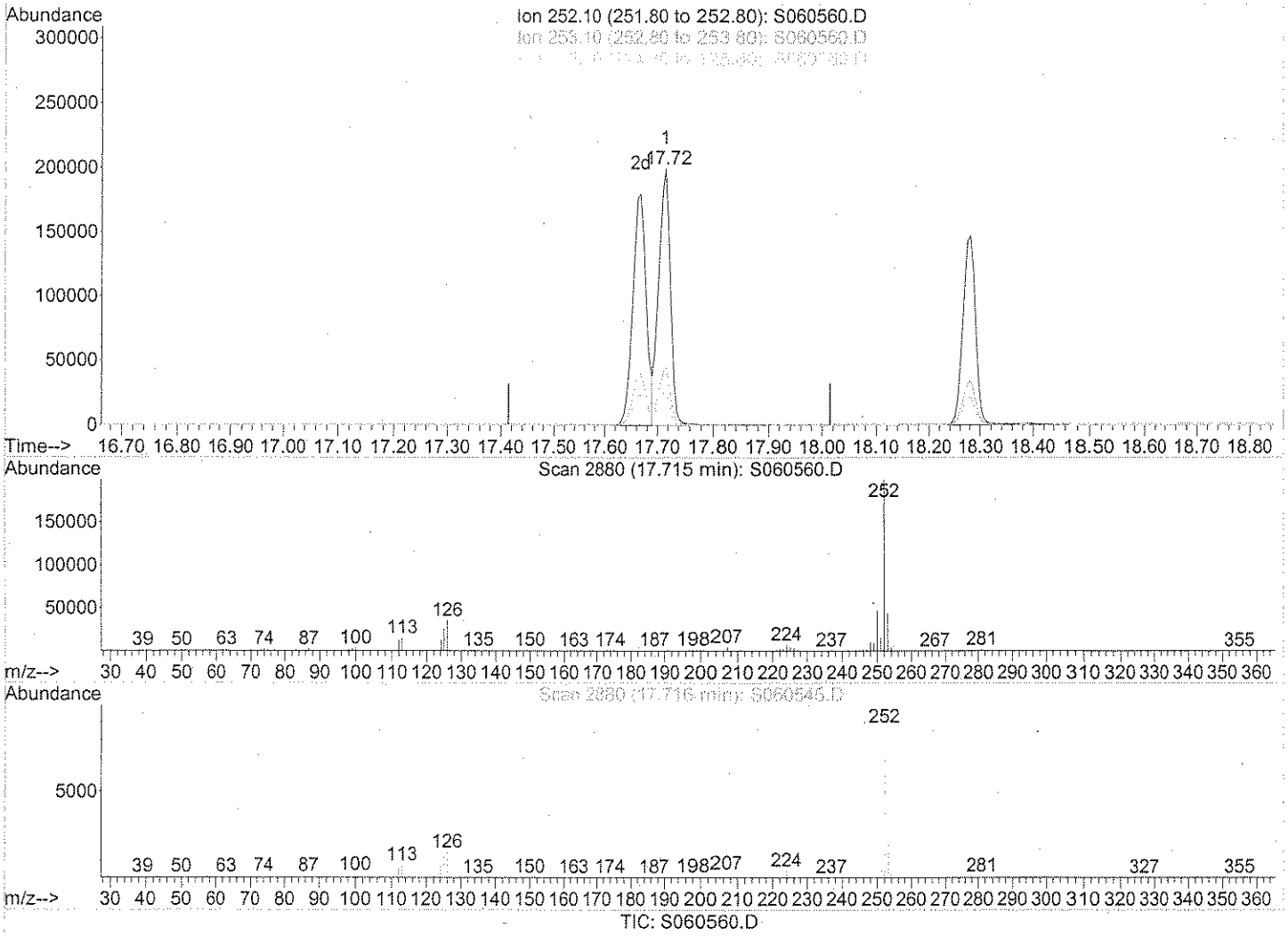
Wrong Peak
4/25/06

KM 4/25/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:49 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Multiple Level Calibration



TIC: S060560.D

(82) Benzo(b)fluoranthene (T)

17.72min 24.72mg/L

response 312422

Ion	Exp%	Act%
252.10	100	100
253.10	21.90	21.48
125.10	18.10	13.11#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:45:17 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	190080	40.00	mg/L	-0.02
22) Naphthalene-d8	7.24	136	768494	40.00	mg/L	-0.03
37) Acenaphthene-d10	9.49	164	426863	40.00	mg/L	-0.03
57) Phenanthrene-d10	11.34	188	745373	40.00	mg/L	-0.03
70) Chrysene-d12	15.59	240	662583	40.00	mg/L	-0.04
80) Perylene-d12	18.39	264	292864	40.00	mg/L	-0.04
System Monitoring Compounds						
6) 2-Fluorophenol	4.06	112	145221	25.49	mg/L	-0.02
Spiked Amount 50.000			Recovery = 50.98%			
7) Phenol-d5	5.19	99	192473	26.35	mg/L	-0.03
Spiked Amount 50.000			Recovery = 52.70%			
23) Nitrobenzene-d5	6.35	82	191599	27.85	mg/L	-0.02
Spiked Amount 50.000			Recovery = 55.70%			
41) 2-Fluorobiphenyl	8.64	172	328256	25.37	mg/L	-0.03
Spiked Amount 50.000			Recovery = 50.74%			
61) 2,4,6-Tribromophenol	10.49	330	57516	25.16	mg/L	-0.03
Spiked Amount 50.000			Recovery = 50.32%			
73) Terphenyl-d14	13.65	244	360796	23.84	mg/L	-0.04
Spiked Amount 50.000			Recovery = 47.68%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.43	88	53695	20.79	mg/L #	82
3) N-Nitrosodimethylamine	2.73	42	73961	28.88	mg/L	95
4) Pyridine	2.74	79	137745	20.00	mg/L #	65
5) PGMEA	3.98	43	164501	44.31	mg/L #	73
8) Aniline	5.25	93	186434	25.92	mg/L	94
9) Phenol	5.21	94	206531	25.65	mg/L #	74
10) Bis(2-chloroethyl)ether	5.31	93	161626	25.56	mg/L	94
11) 2-Chlorophenol	5.38	128	166351	26.62	mg/L	99
12) 1,3-Dichlorobenzene	5.56	146	185042	24.76	mg/L	97
13) 1,4-Dichlorobenzene	5.62	146	185931	24.33	mg/L	97
14) Benzyl alcohol	5.81	108	98688	27.47	mg/L #	77
15) 1,2-Dichlorobenzene	5.87	146	179716	24.91	mg/L	97
16) N-Methyl pyrrolidine (NMP)	5.91	99	88145	23.35	mg/L	98
17) 2-Methylphenol	5.98	108	152898	26.18	mg/L	100
18) Bis(2-chloroisopropyl)ethe	5.99	45	75748	51.07	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.18	70	143471	28.14	mg/L #	68
20) Hexachloroethane	6.26	117	80708	26.50	mg/L	92
21) 3- and 4-Methylphenol Coel	6.16	107	199225	54.56	mg/L #	92
24) Nitrobenzene	6.37	77	205156	26.67	mg/L #	82
25) Isophorone	6.66	82	364051	28.00	mg/L	96
26) 2-Nitrophenol	6.78	139	85776	25.42	mg/L #	80
27) 2,4-Dimethylphenol	6.83	122	143998	26.21	mg/L	91
28) Bis(2-chloroethoxy)methane	6.95	93	186251	26.87	mg/L	100
29) 2,4-Dichlorophenol	7.08	162	139134	25.58	mg/L	98
30) 1,2,4-Trichlorobenzene	7.19	180	152681	24.35	mg/L	99
31) Benzoic acid	7.01	122	103430	26.33	mg/L #	83
32) Naphthalene	7.27	128	472070	25.11	mg/L	99
33) 4-Chloroaniline	7.37	127	139730	24.22	mg/L #	94
34) Hexachlorobutadiene	7.50	225	90765	23.81	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:45:17 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration
DataAcq Meth : 8270

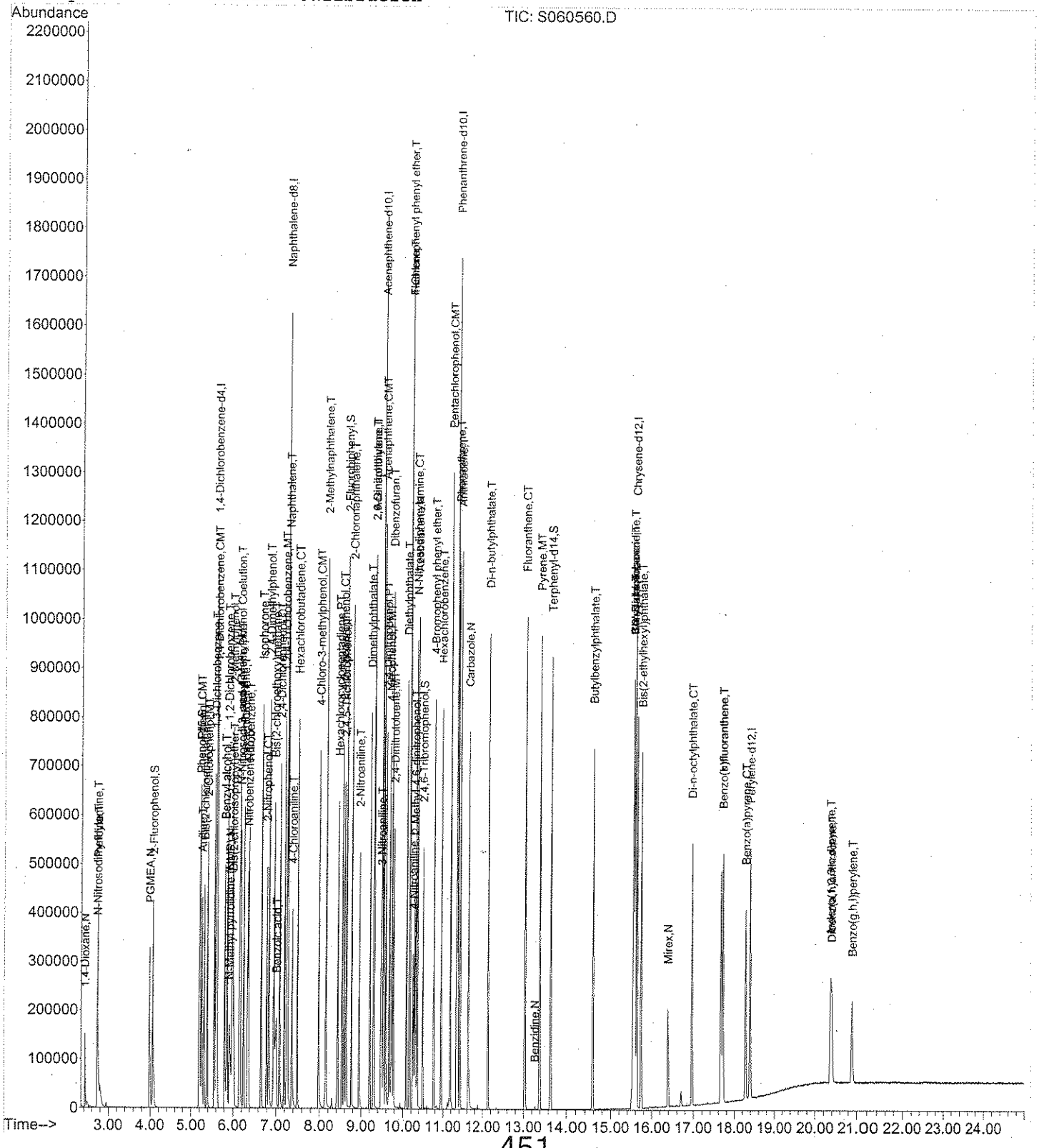
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	7.98	107	144746	27.57	mg/L		91
36)	2-Methylnaphthalene	8.15	142	314770	25.18	mg/L		98
38)	Hexachlorocyclopentadiene	8.44	237	107335	27.49	mg/L		99
39)	2,4,6-Trichlorophenol	8.54	196	101439	26.16	mg/L		99
40)	2,4,5-Trichlorophenol	8.59	196	107510	25.47	mg/L	#	93
42)	2-Chloronaphthalene	8.77	162	300386	26.34	mg/L		99
43)	2-Nitroaniline	8.94	65	101380	30.30	mg/L		89
44)	Dimethylphthalate	9.21	163	336815	27.07	mg/L	#	91
45)	Acenaphthylene	9.30	152	468551	26.56	mg/L		99
46)	2,6-Dinitrotoluene	9.29	165	79849	26.03	mg/L	#	53
47)	3-Nitroaniline	9.47	138	69773	29.82	mg/L	#	83
48)	Acenaphthene	9.54	154	262491	25.05	mg/L		97
49)	2,4-Dinitrophenol	9.58	184	102392	54.35	mg/L	#	80
50)	Dibenzofuran	9.73	168	422358	26.41	mg/L		95
51)	4-Nitrophenol	9.68	109	82881	50.62	mg/L	#	63
52)	2,4-Dinitrotoluene	9.78	165	101160	27.47	mg/L	#	80
53)	Fluorene	10.17	166	327059	26.11	mg/L		97
54)	Diethylphthalate	10.08	149	346213	28.02	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.16	204	164656	25.62	mg/L		96
56)	4-Nitroaniline	10.25	138	64059	28.31	mg/L	#	80
58)	2-Methyl-4,6-dinitrophenol	10.28	198	65089	25.36	mg/L		97
59)	N-Nitrosodiphenylamine	10.32	169	225358	25.03	mg/L		97
60)	Azobenzene	10.35	77	428058	27.11	mg/L		94
62)	4-Bromophenyl phenyl ether	10.77	248	102219	24.77	mg/L		98
63)	Hexachlorobenzene	10.95	284	115081	25.76	mg/L		98
64)	Pentachlorophenol	11.18	266	155497	50.17	mg/L		99
65)	Phenanthrene	11.36	178	450893	24.76	mg/L		99
66)	Anthracene	11.42	178	456062	25.83	mg/L		99
67)	Carbazole	11.63	167	402126	28.93	mg/L		100
68)	Di-n-butylphthalate	12.14	149	587813	28.08	mg/L	#	99
69)	Fluoranthene	13.03	202	527136	25.88	mg/L	#	95
71)	Benzidine	13.27	184	197	0.54	mg/L	#	66
72)	Pyrene	13.39	202	518578	23.47	mg/L		99
74)	Butylbenzylphthalate	14.58	149	244597	24.18	mg/L		92
75)	Benz(a)anthracene	15.55	228	445648	24.53	mg/L		98
76)	3,3'-Dichlorobenzidine	15.54	252	81387	21.26	mg/L		99
77)	Chrysene	15.55	228	445648	26.17	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	15.74	149	300327	23.51	mg/L		98
79)	Mirex	16.39	272	40774	11.63	mg/L		96
81)	Di-n-octylphthalate	16.96	149	398264	22.34	mg/L		100
82)	Benzo(b)fluoranthene	17.72	252	312422	24.72	mg/L	#	94
83)	Benzo(k)fluoranthene	17.72	252	312422	25.76	mg/L	#	95
84)	Benzo(a)pyrene	18.28	252	255478	25.18	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.37	276	189134	22.80	mg/L	#	87
86)	Dibenz(a,h)anthracene	20.40	278	142956	22.73	mg/L	#	86
87)	Benzo(g,h,i)perylene	20.90	276	143801	21.70	mg/L	#	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060424\S060560.D Vial: 2
Acq On : 24 Apr 2006 11:19 am Operator: SC
Sample : 25PPM 8270 CCV Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-14 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:45 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration



Raw Data

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062438.D

Date : 28-MAR-2006 08:29

Client ID: BFB

Instrument: MSU.i

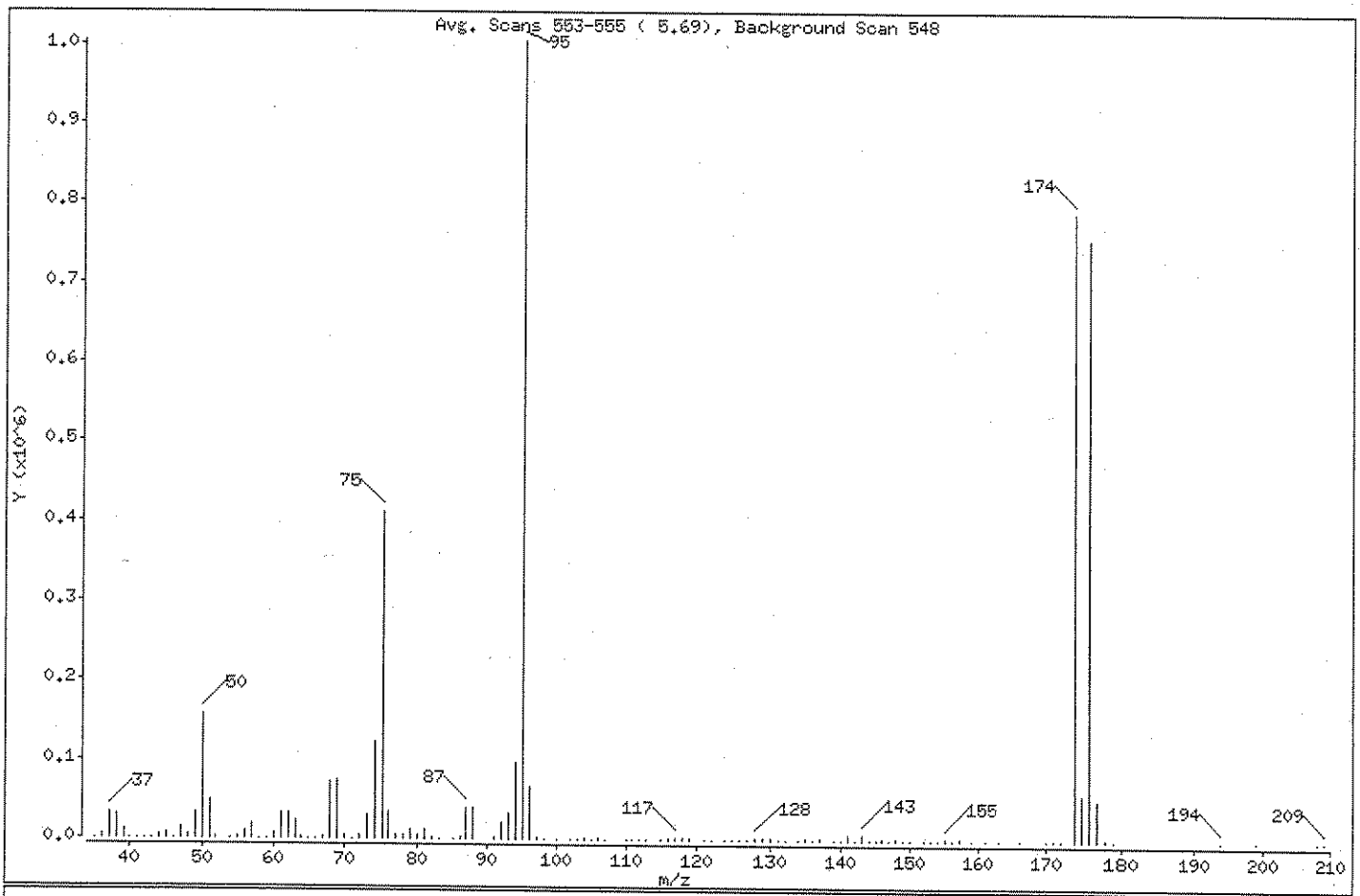
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.72
75	30.00 - 60.00% of mass 95	40.85
96	5.00 - 9.00% of mass 95	6.56
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	78.32
175	5.00 - 9.00% of mass 174	5.76 (7.36)
176	95.00 - 101.00% of mass 174	75.11 (95.89)
177	5.00 - 9.00% of mass 176	4.94 (6.58)

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062438.D

Date : 28-MAR-2006 08:29

Client ID: BFB

Instrument: MSU.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

Data File: U062438.D

Spectrum: Avg. Scans 553-555 (5.69), Background Scan 548

Location of Maximum: 95.00

Number of points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	92	68.00	71664	105.00	904	144.00	445
36.00	5165	69.00	74640	106.00	2472	145.00	674
37.00	33320	70.00	5632	107.00	935	146.00	1222
38.00	30216	71.00	480	110.00	75	147.00	781
39.00	12507	72.00	3943	111.00	336	148.00	1947
40.00	625	73.00	30072	112.00	729	149.00	629
41.00	658	74.00	121552	113.00	105	150.00	1001
42.00	255	75.00	410048	115.00	594	152.00	256
43.00	528	76.00	34080	116.00	2321	153.00	588
44.00	3962	77.00	4741	117.00	3276	154.00	169
45.00	6766	78.00	3597	118.00	1960	155.00	2062
46.00	469	79.00	10736	119.00	2974	156.00	270
47.00	14270	80.00	3517	121.00	140	157.00	1467
48.00	4494	81.00	11120	122.00	119	159.00	886
49.00	32024	82.00	1719	124.00	642	161.00	867
50.00	157824	83.00	483	125.00	239	163.00	86
51.00	49272	85.00	17	126.00	129	166.00	103
52.00	2157	86.00	1328	127.00	199	170.00	109
54.00	98	87.00	40328	128.00	2772	171.00	112
55.00	2026	88.00	38768	129.00	1365	172.00	538
56.00	9533	91.00	2396	130.00	2770	174.00	786304
57.00	18128	92.00	20728	131.00	1147	175.00	57864
58.00	864	93.00	32736	132.00	320	176.00	753984
59.00	36	94.00	96688	134.00	55	177.00	49624
60.00	6536	95.00	1003904	135.00	1308	178.00	1372
61.00	32504	96.00	65808	136.00	379	179.00	92
62.00	32296	97.00	1769	137.00	1196	194.00	122
63.00	23456	98.00	33	139.00	313	199.00	89
64.00	2324	100.00	84	140.00	298	208.00	42
65.00	206	102.00	94	141.00	6199	209.00	392
66.00	72	103.00	167	142.00	928		
67.00	1931	104.00	2330	143.00	6626		

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062438.D

Date : 28-MAR-2006 08:29

Client ID: BFB

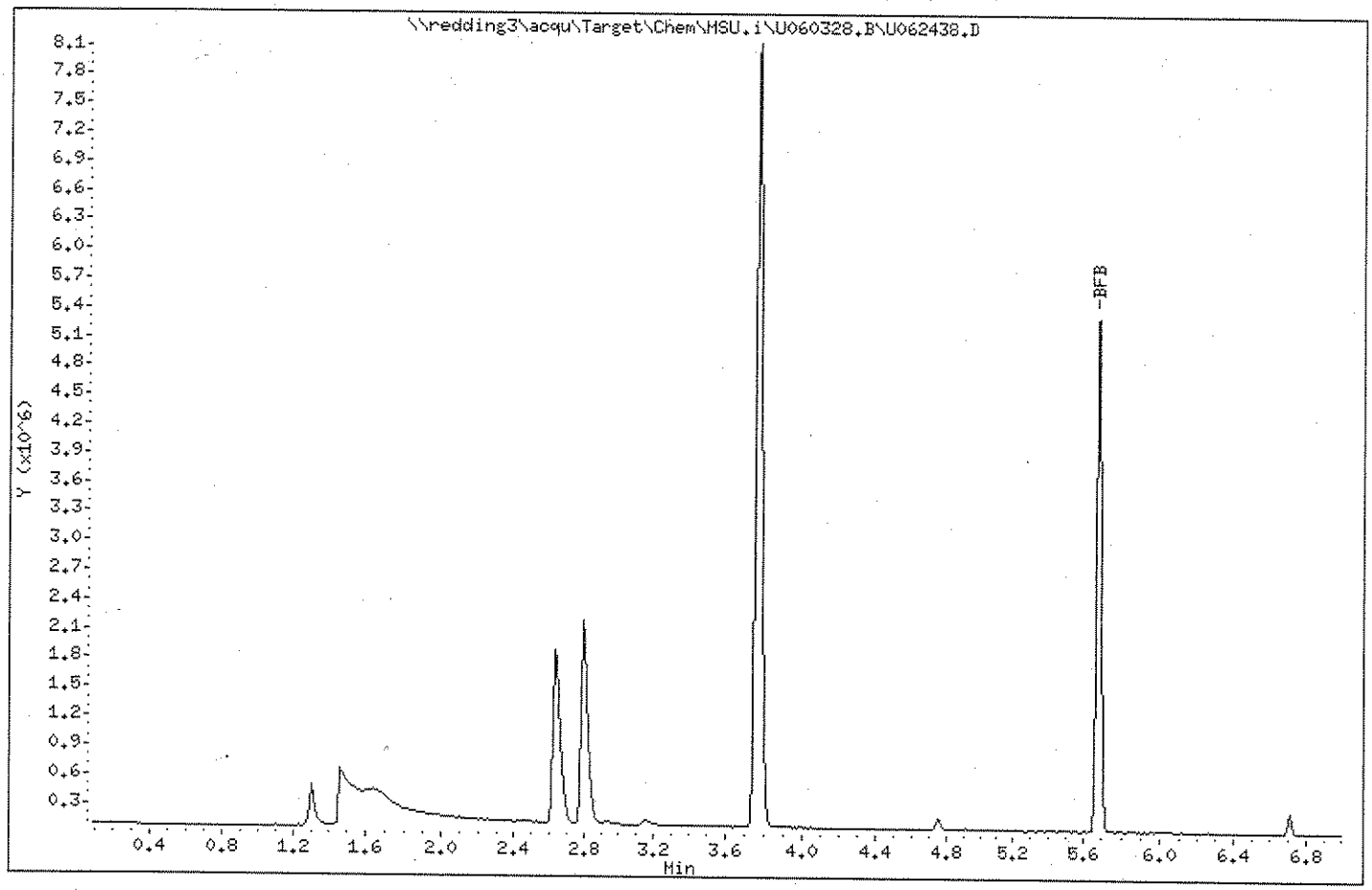
Instrument: MSU.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062770.D

Date : 12-APR-2006 11:46

Client ID: BFB

Instrument: MSU.i

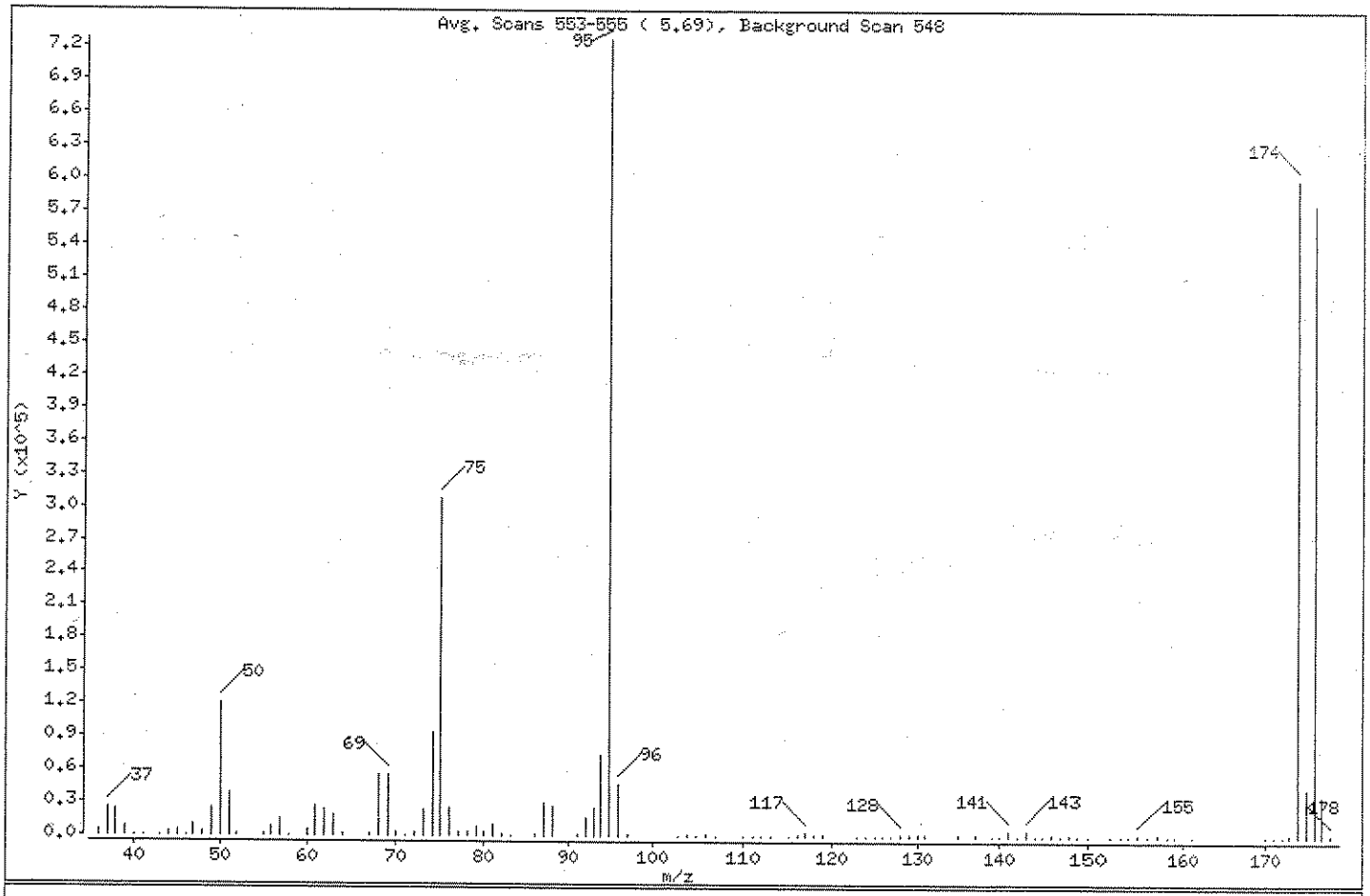
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.52
75	30.00 - 60.00% of mass 95	42.35
96	5.00 - 9.00% of mass 95	6.46
173	Less than 2.00% of mass 174	0.14 (0.17)
174	50.00 - 100.00% of mass 95	82.59
175	5.00 - 9.00% of mass 174	5.86 (7.10)
176	95.00 - 101.00% of mass 174	79.26 (95.97)
177	5.00 - 9.00% of mass 176	4.96 (6.25)

Data File: \\redding3\aoqu\Target\Chem\MSU.i\U060412.B\U062770.D

Date : 12-APR-2006 11:46

Client ID: BFB

Instrument: MSU.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

Data File: U062770.D

Spectrum: Avg. Scans 553-555 (5.69), Background Scan 548

Location of Maximum: 95.00

Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4206	69.00	54824	105.00	722	143.00	5191
37.00	25008	70.00	3991	106.00	1997	144.00	228
38.00	22616	71.00	144	107.00	496	145.00	521
39.00	9063	72.00	2907	110.00	87	146.00	849
40.00	175	73.00	24224	111.00	255	147.00	429
41.00	211	74.00	93976	112.00	285	148.00	1585
43.00	250	75.00	308032	113.00	211	149.00	350
44.00	2514	76.00	25568	115.00	516	150.00	658
45.00	5006	77.00	3472	116.00	1814	152.00	276
46.00	136	78.00	2635	117.00	2928	153.00	414
47.00	10732	79.00	8537	118.00	1853	154.00	287
48.00	3441	80.00	2769	119.00	2360	155.00	1737
49.00	24440	81.00	9533	123.00	95	156.00	108
50.00	120168	82.00	1544	124.00	451	157.00	1097
51.00	38384	83.00	199	125.00	84	158.00	89
52.00	1778	86.00	846	126.00	186	159.00	740
55.00	1348	87.00	29376	127.00	128	161.00	701
56.00	7667	88.00	27144	128.00	2422	170.00	85
57.00	14329	91.00	1383	129.00	966	171.00	269
58.00	584	92.00	16400	130.00	2215	172.00	180
60.00	4770	93.00	25280	131.00	875	173.00	1045
61.00	26312	94.00	73296	135.00	938	174.00	600704
62.00	23552	95.00	727360	137.00	898	175.00	42640
63.00	18704	96.00	46984	139.00	185	176.00	576512
64.00	1650	97.00	1332	140.00	325	177.00	36056
67.00	1334	103.00	233	141.00	5196	178.00	983
68.00	54568	104.00	1885	142.00	628		

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062770.D

Date : 12-APR-2006 11:46

Client ID: BFB

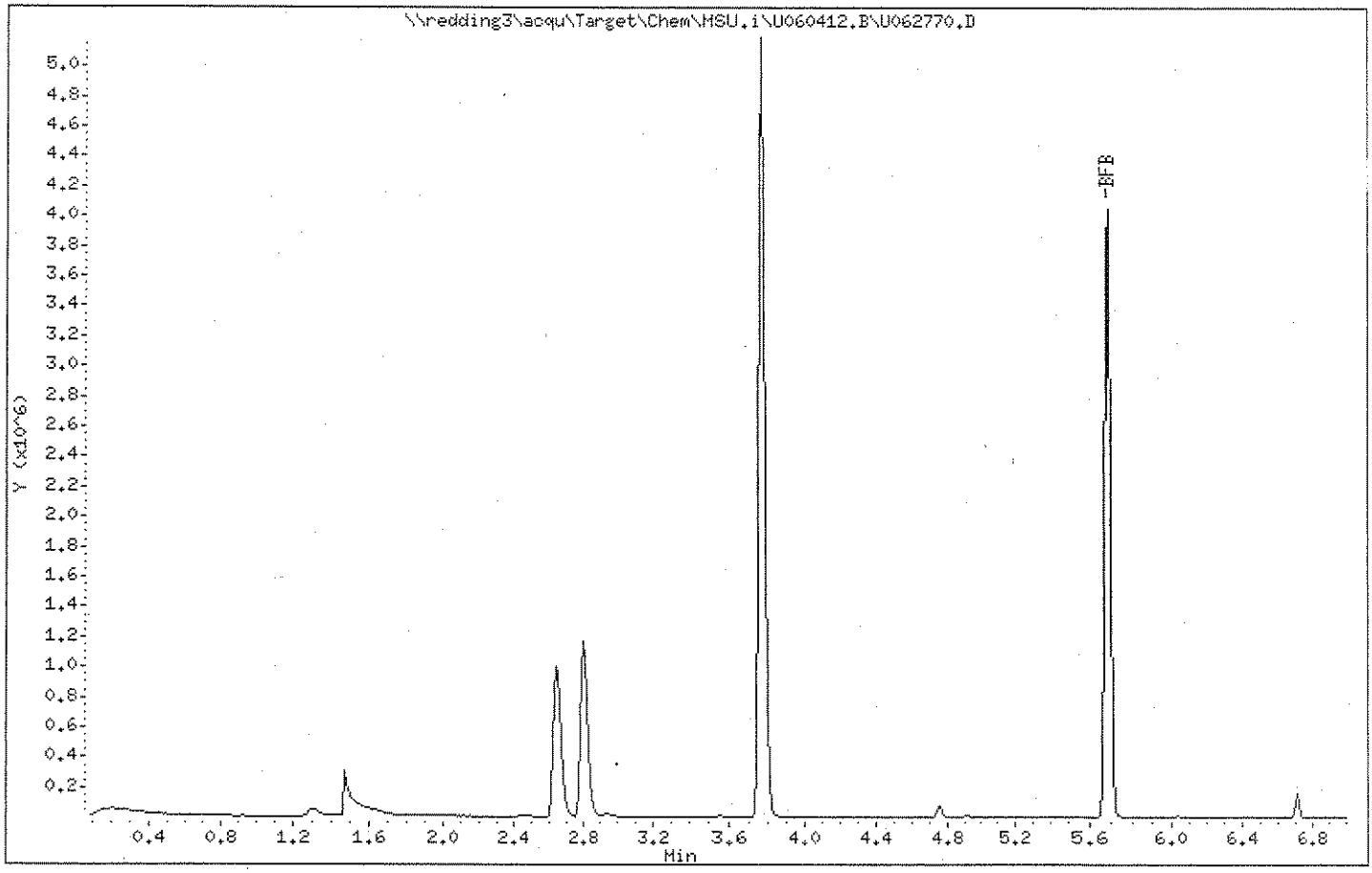
Instrument: MSU.i

Sample Info: BFB:BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0412W01

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloromethane	ND	U	0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
Vinyl chloride	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromomethane	ND	U	0.23	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloroethane	ND	U	0.19	1.0	1	04/12/2006	04/12/2006	U0412W01	
Trichlorofluoromethane	ND	U	0.22	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.16	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethene	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Acetone	**1.2**	J	0.74	10	1	04/12/2006	04/12/2006	U0412W01	
Carbon disulfide	ND	U	0.17	2.0	1	04/12/2006	04/12/2006	U0412W01	
Methylene chloride	**0.21**	J	0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
trans-1,2-Dichloroethene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tert-butylmethylether	ND	U	0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethane	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Vinyl acetate	ND	U	0.18	10	1	04/12/2006	04/12/2006	U0412W01	
2,2-Dichloropropane	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Butanone	ND	U	0.44	10	1	04/12/2006	04/12/2006	U0412W01	
Bromochloromethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Chloroform	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1-Trichloroethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Carbon tetrachloride	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Benzene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloroethane	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Trichloroethene	ND	U	0.21	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloropropane	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Dibromomethane	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromodichloromethane	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
4-methyl-2-pentanone	ND	U	0.40	10	1	04/12/2006	04/12/2006	U0412W01	
Toluene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
trans-1,3-Dichloropropene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tetrachloroethene	ND	U	0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichloropropane	ND	U	0.12	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Hexanone	ND	U	0.54	10	1	04/12/2006	04/12/2006	U0412W01	

Comments:

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0412W01

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.11	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromoethane	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chlorobenzene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1,2-Tetrachloroethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Ethylbenzene	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
m-,p-Xylene	ND	U	0.29	1.0	1	04/12/2006	04/12/2006	U0412W01	
o-Xylene	ND	U	0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Xylene (total)	ND	U	0.11	1.5	1	04/12/2006	04/12/2006	U0412W01	
Styrene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromoform	ND	U	0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
Isopropylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2,2-Tetrachloroethane	ND	U	0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromobenzene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichloropropane	ND	U	0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Propylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
2-Chlorotoluene	ND	U	0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3,5-Trimethylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
tert-Butylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
sec-Butylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichlorobenzene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
p-Isopropyltoluene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,4-Dichlorobenzene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Butylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromo-3-chloropropane	ND	U	0.53	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trichlorobenzene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Hexachlorobutadiene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Naphthalene	ND	U	0.090	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0412W01

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	108	88-119	04/12/2006	
Dibromofluoromethane - SS	96	87-123	04/12/2006	
Toluene-d8 - SS	90	82-115	04/12/2006	

Comments: _____

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062777.D

Date : 12-APR-2006 15:12

Client ID: U0412W01

Instrument: MSU.i

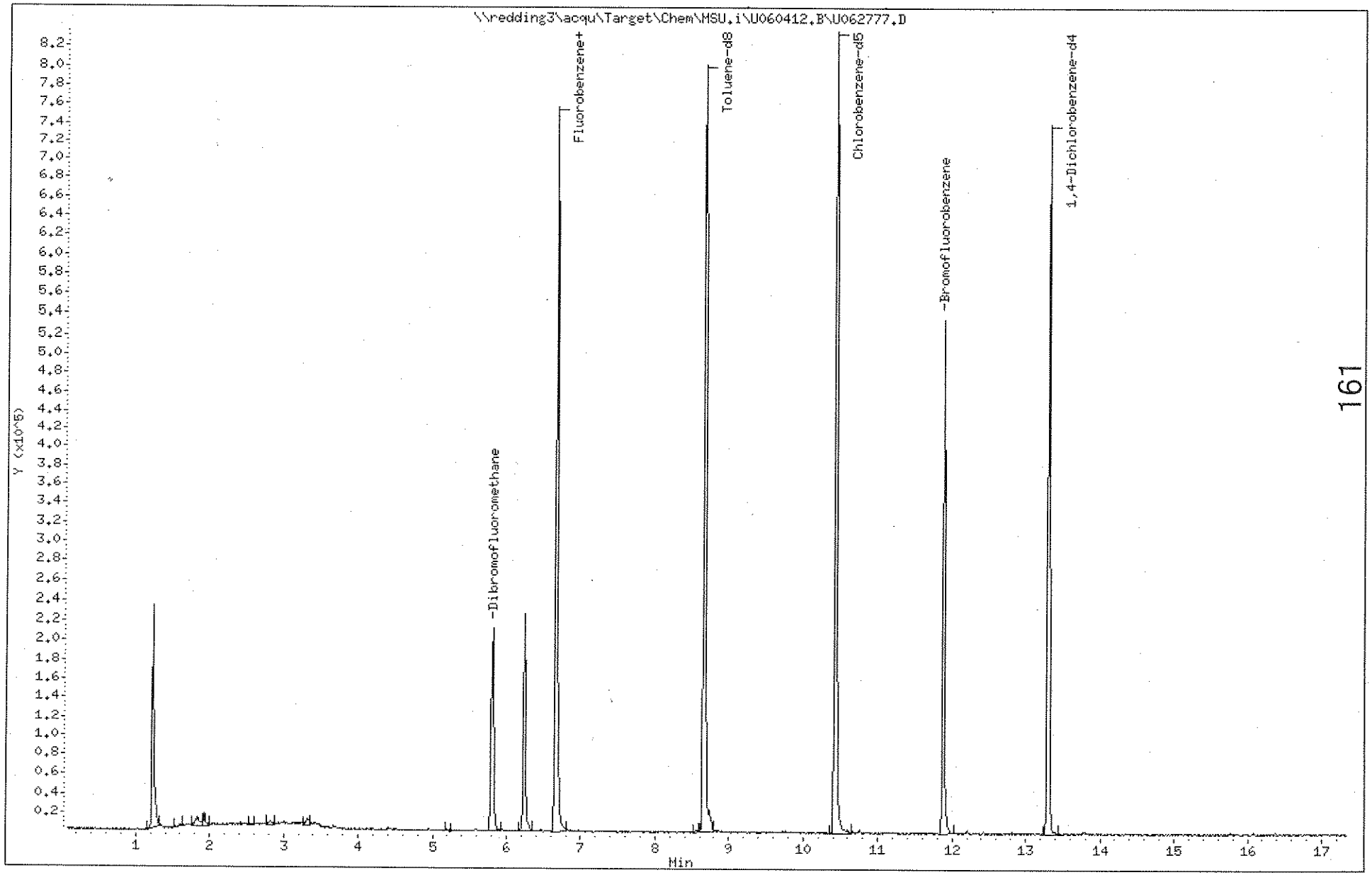
Sample Info: U0412W01;U0412W01

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062777.D
Lab Smp Id: U0412W01 Client Smp ID: U0412W01
Inj Date : 12-APR-2006 15:12
Operator : X Inst ID: MSU.i
Smp Info : U0412W01;U0412W01
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\8260wCanoga.m
Meth Date : 12-Apr-2006 13:21 bgeers Quant Type: ISTD
Cal Date : 28-MAR-2006 16:56 Cal File: U062457.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Canoga-LJ964.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	6.668	6.668	(1.000)	768221	10.0000	
* 2 Chlorobenzene-d5	117	10.425	10.425	(1.000)	534727	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	219059	10.0000	
$ 4 Dibromofluoromethane	113	5.807	5.807	(0.871)	157714	9.62116	9.6
$ 6 Toluene-d8	98	8.663	8.663	(0.831)	605190	9.04910	9.0
$ 7 Bromofluorobenzene	174	11.883	11.883	(0.893)	181338	10.8019	10.8
8 Dichlorodifluoromethane	85	Compound Not Detected.					
10 Chloromethane	50	Compound Not Detected.					
11 Vinyl chloride	62	Compound Not Detected.					
12 Bromomethane	94	Compound Not Detected.					
13 Chloroethane	64	Compound Not Detected.					
14 Trichlorofluoromethane	101	Compound Not Detected.					
15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	2.840	2.830	(0.426)	5297	1.19016	1.2(a)
20 Carbon disulfide	76	Compound Not Detected.					
21 Methylene chloride	84	3.336	3.316	(0.500)	2731	0.21400	0.21(aQ)
25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
26 tert-Butylmethylether	73	Compound Not Detected.					
27 1,1-Dichloroethane	63	Compound Not Detected.					
29 Vinyl acetate	43	Compound Not Detected.					
31 2,2-Dichloropropane	77	Compound Not Detected.					

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4-14-06

4/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	32 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	34 2-Butanone	43	Compound Not Detected.					
	35 Bromochloromethane	128	Compound Not Detected.					
	36 Chloroform	83	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	39 1,1-Dichloropropene	75	Compound Not Detected.					
	40 Carbon tetrachloride	119	Compound Not Detected.					
	42 Benzene	78	Compound Not Detected.					
	43 1,2-Dichloroethane	62	6.668	6.334	(1.000)	9280	0.39117	0.39(a)
	45 Trichloroethene	95	Compound Not Detected.					
	46 1,2-Dichloropropane	63	Compound Not Detected.					
	48 Dibromomethane	93	Compound Not Detected.					
	49 Bromodichloromethane	83	Compound Not Detected.					
	51 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	52 4-Methyl-2-pentanone	43	Compound Not Detected.					
	53 Toluene	92	Compound Not Detected.					
	54 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	55 1,1,2-Trichloroethane	83	Compound Not Detected.					
	56 Tetrachloroethene	166	Compound Not Detected.					
	57 1,3-Dichloropropane	76	Compound Not Detected.					
	58 2-Hexanone	43	Compound Not Detected.					
	59 Dibromochloromethane	129	Compound Not Detected.					
	60 1,2-Dibromoethane	107	Compound Not Detected.					
	62 Chlorobenzene	112	Compound Not Detected.					
	63 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	64 Ethylbenzene	91	Compound Not Detected.					
	65 m-,p-Xylene	106	Compound Not Detected.					
	66 o-Xylene	106	Compound Not Detected.					
M	67 Xylene (total)	106	Compound Not Detected.					
	68 Styrene	104	Compound Not Detected.					
	69 Bromoform	173	Compound Not Detected.					
	70 Isopropylbenzene	105	Compound Not Detected.					
	71 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	72 Bromobenzene	156	Compound Not Detected.					
	73 1,2,3-Trichloropropane	110	Compound Not Detected.					
	75 n-Propylbenzene	120	Compound Not Detected.					
	76 2-Chlorotoluene	126	Compound Not Detected.					
	78 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	79 4-Chlorotoluene	126	Compound Not Detected.					
	80 tert-Butylbenzene	119	Compound Not Detected.					
	81 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	82 sec-Butylbenzene	105	Compound Not Detected.					
	83 1,3-Dichlorobenzene	146	Compound Not Detected.					
	84 p-Isopropyltoluene	119	Compound Not Detected.					
	85 1,4-Dichlorobenzene	146	Compound Not Detected.					
	87 n-Butylbenzene	91	Compound Not Detected.					
	88 1,2-Dichlorobenzene	146	Compound Not Detected.					
	89 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
	90 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	91 Hexachlorobutadiene	225	Compound Not Detected.					
	92 Naphthalene	128	Compound Not Detected.					
	93 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062777.D

Date : 12-APR-2006 15:12

Client ID: U0412W01

Instrument: MSU.i

Sample Info: U0412W01;U0412W01

Purge Volume: 10.0

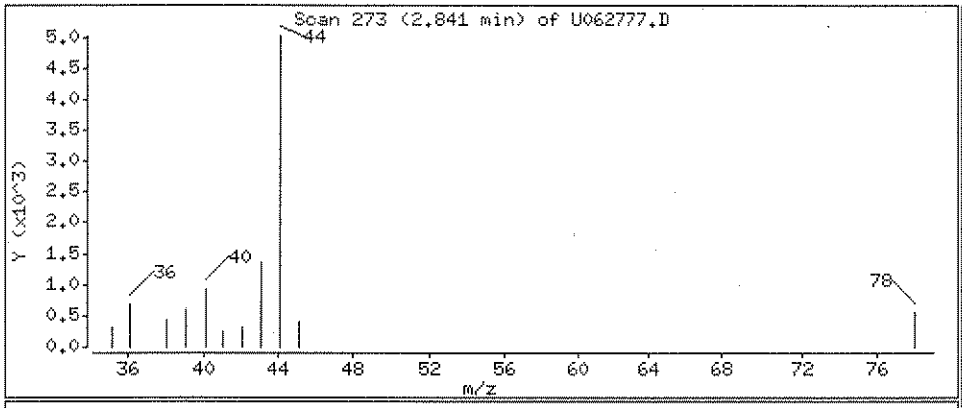
Operator: X

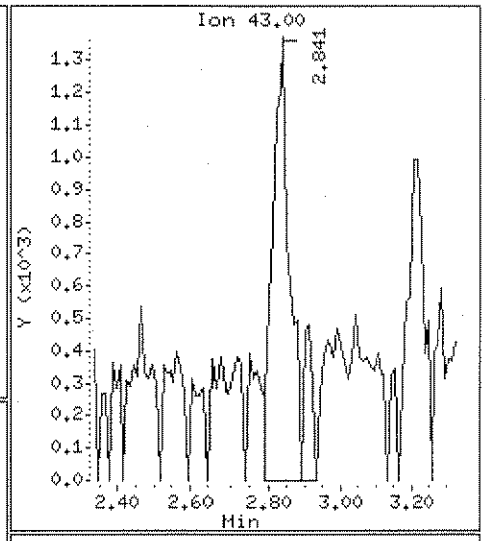
Column phase: DB-624

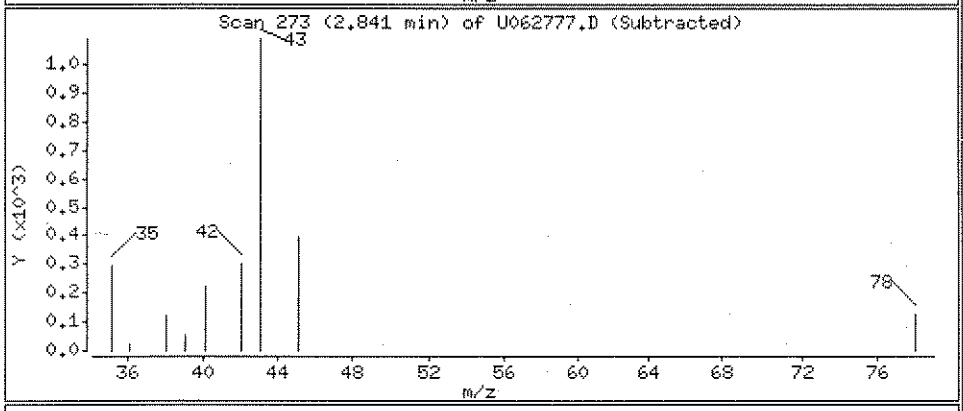
Column diameter: 0.32

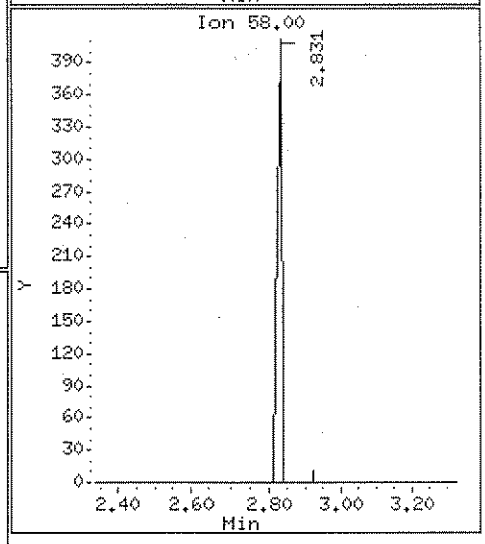
18 Acetone

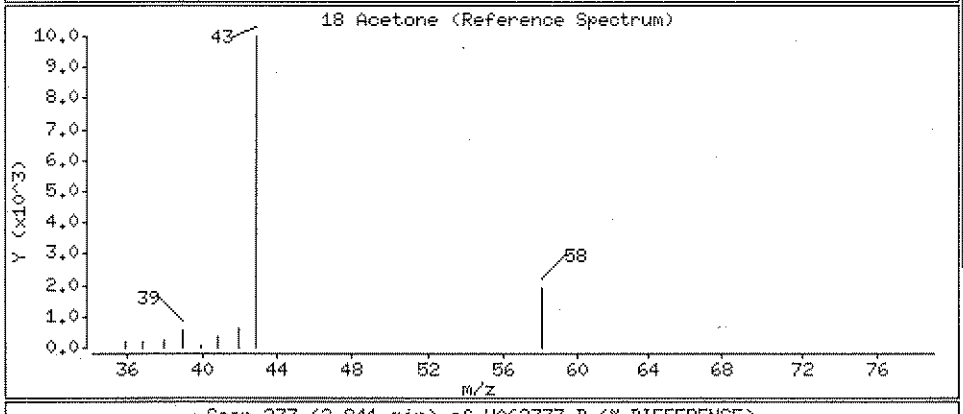
Concentration: 1.2 ug/L

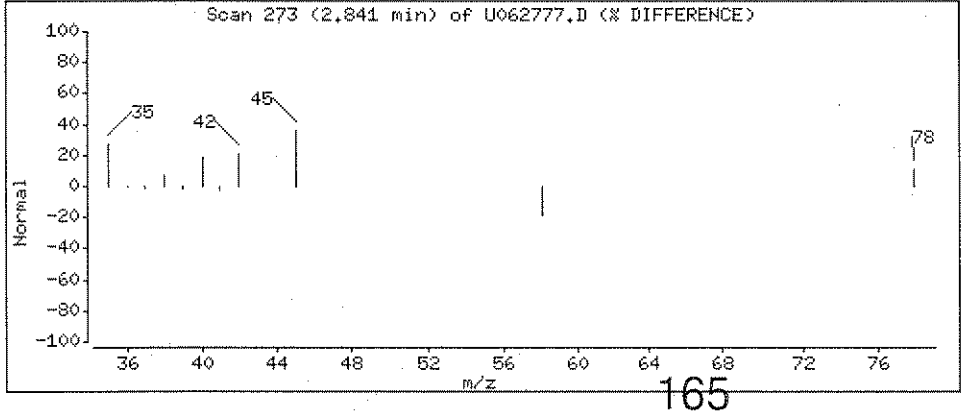












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062777.D

Date : 12-APR-2006 15:12

Client ID: U0412W01

Instrument: MSU.i

Sample Info: U0412W01;U0412W01

Purge Volume: 10.0

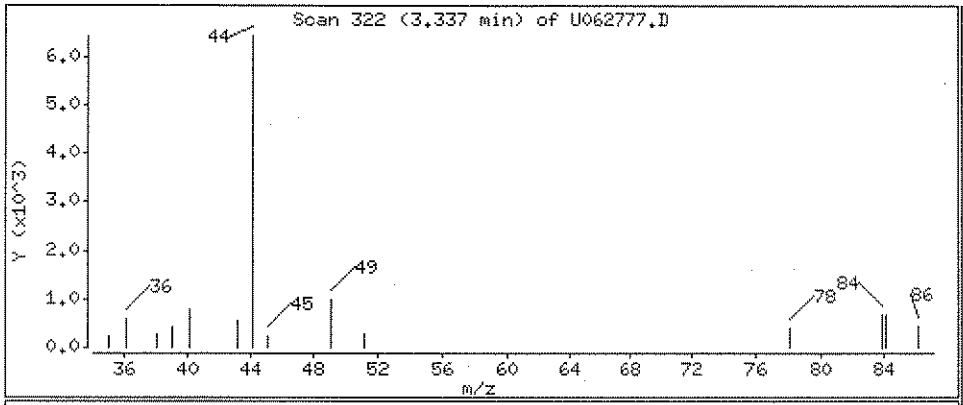
Operator: X

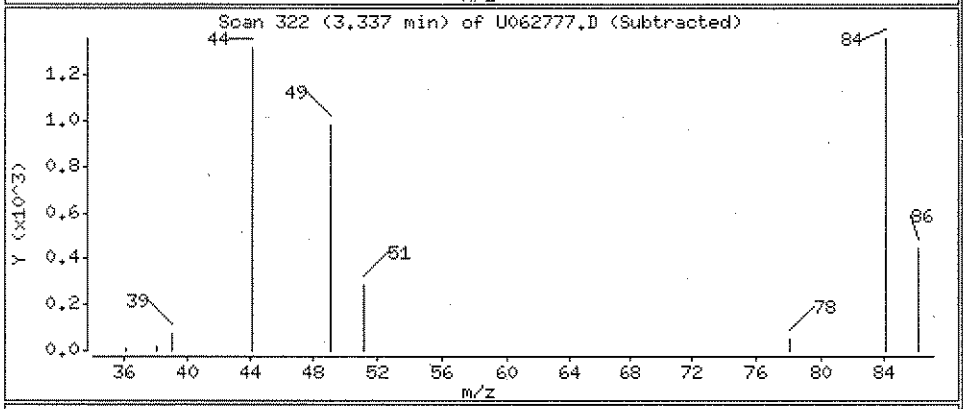
Column phase: DB-624

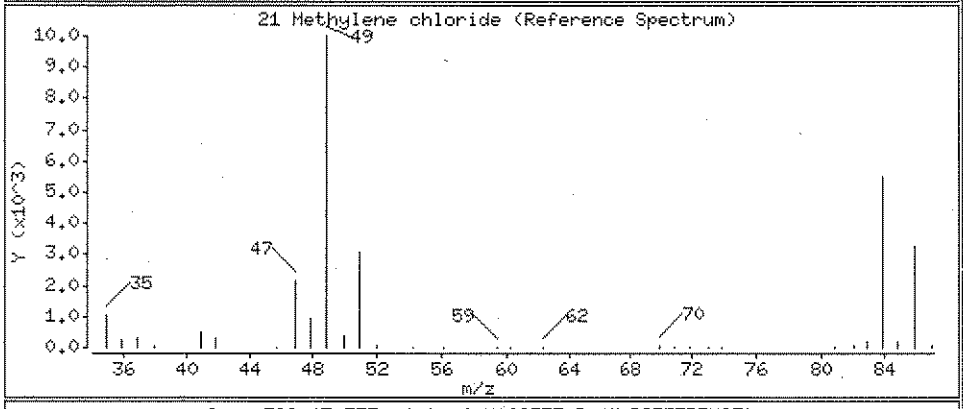
Column diameter: 0.32

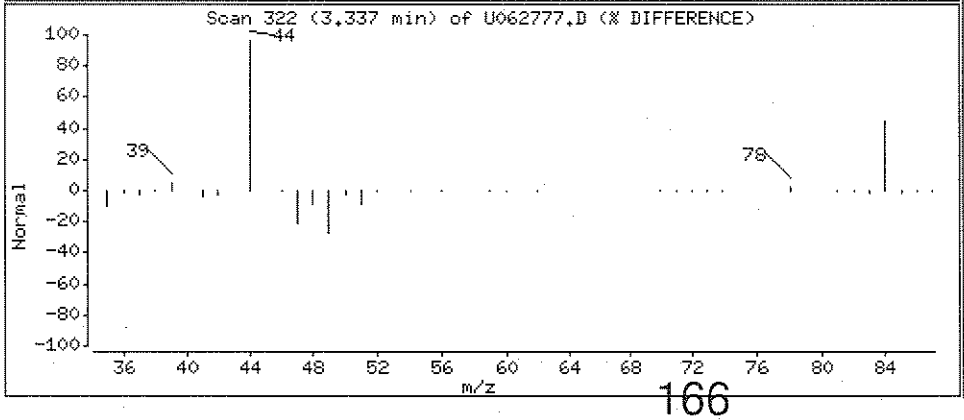
21 Methylene chloride

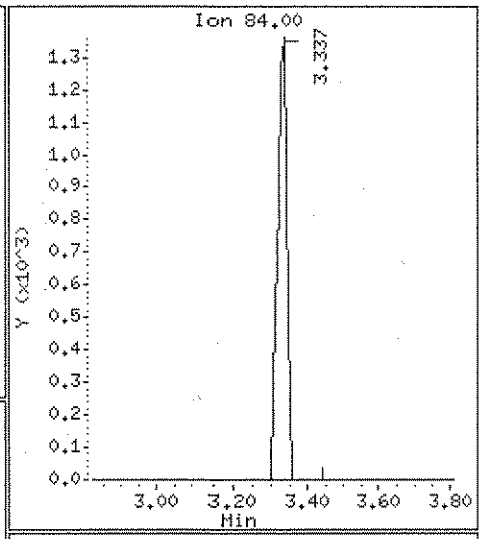
Concentration: 0.21 ug/L

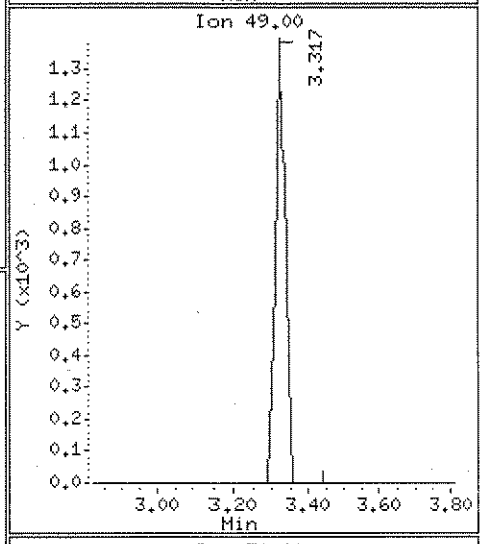


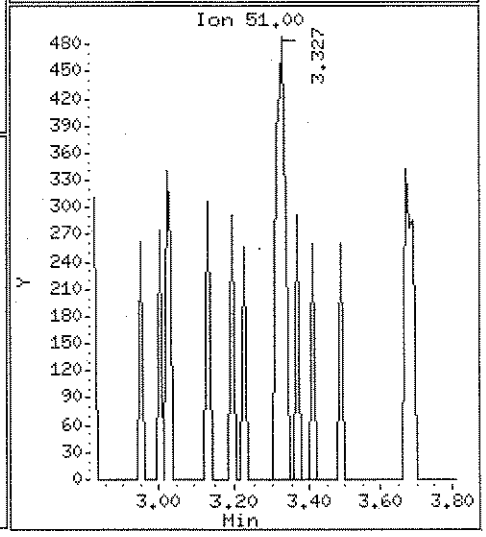












Data File: \\redding3\aoqu\Target\Chem\MSU.i\U060412.B\U062777.D

Date : 12-APR-2006 15:12

Client ID: U0412W01

Instrument: MSU.i

Sample Info: U0412W01;U0412W01

Purge Volume: 10.0

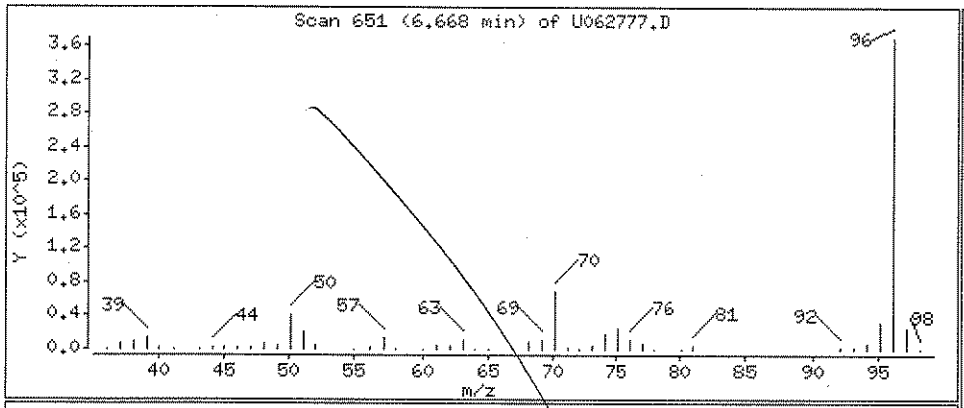
Operator: X

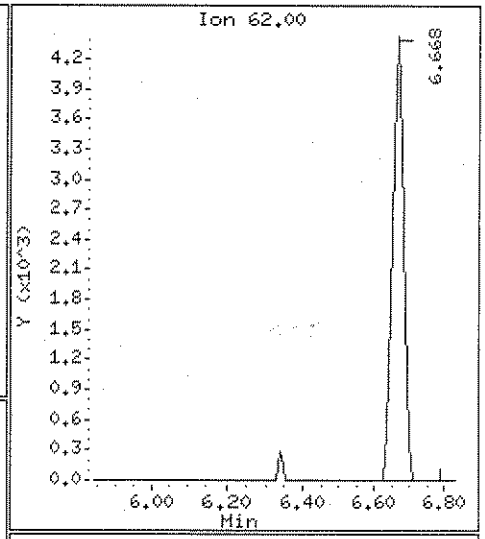
Column phase: DB-624

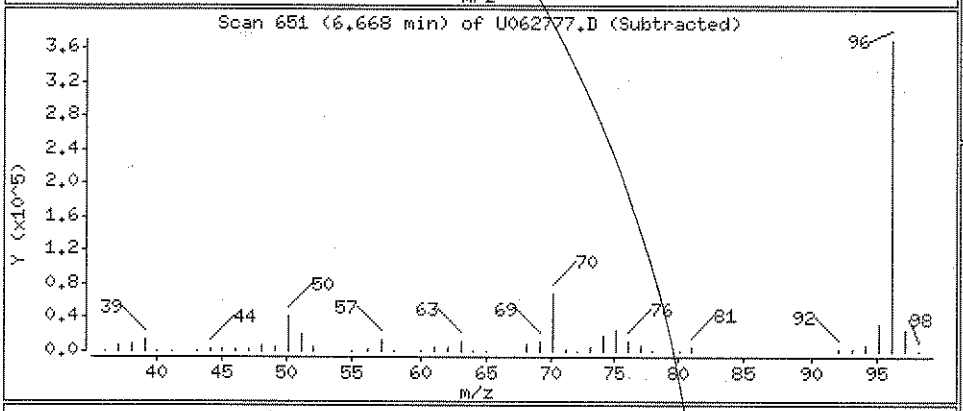
Column diameter: 0.32

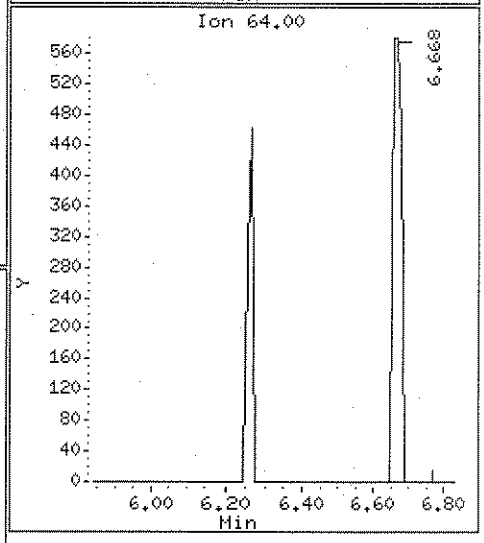
43 1,2-Dichloroethane

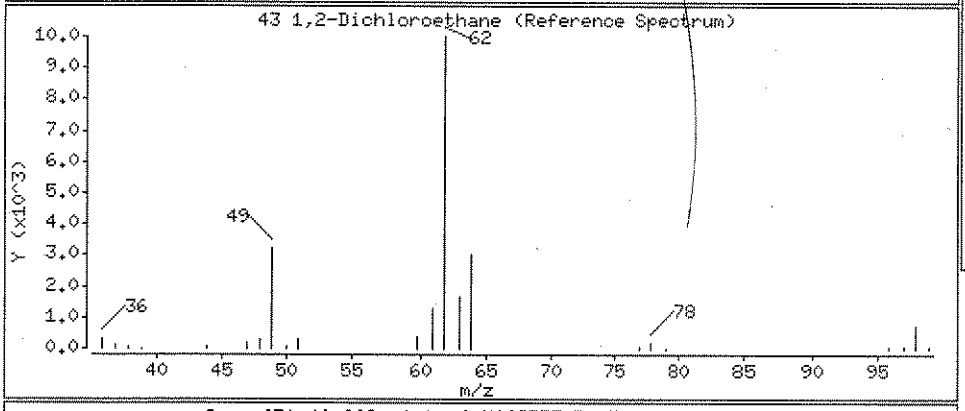
Concentration: 0.39 ug/L

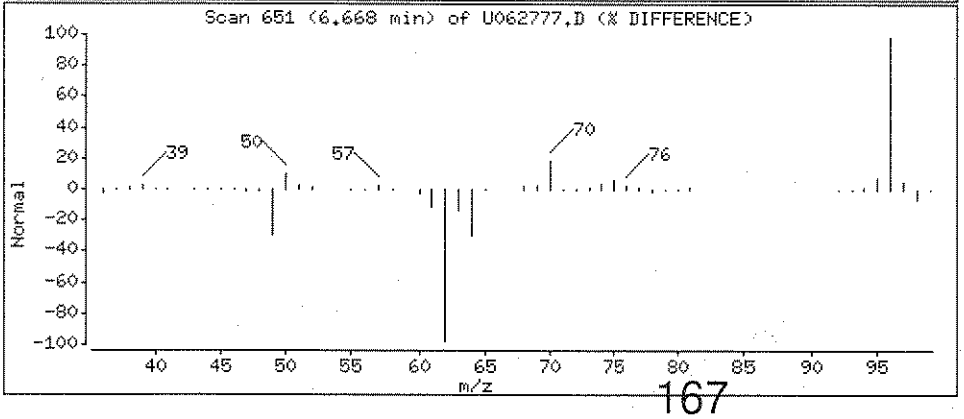












COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: U0412W01LCS

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	**8.80**		0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloromethane	**8.30**		0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
Vinyl chloride	**9.40**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromomethane	**8.60**		0.23	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloroethane	**10.3**		0.19	1.0	1	04/12/2006	04/12/2006	U0412W01	
Trichlorofluoromethane	**11.8**		0.22	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichlorotrifluoroethane	**11.4**		0.16	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethene	**10.9**		0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Acetone	**46.0**		0.74	10	1	04/12/2006	04/12/2006	U0412W01	
Carbon disulfide	**10.5**		0.17	2.0	1	04/12/2006	04/12/2006	U0412W01	
Methylene chloride	**10.7**		0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
trans-1,2-Dichloroethene	**10.4**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tert-butylmethylether	**10.1**		0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethane	**10.4**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Vinyl acetate	**9.90**	J	0.18	10	1	04/12/2006	04/12/2006	U0412W01	
2,2-Dichloropropane	**10.3**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
cis-1,2-Dichloroethene	**10.2**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Butanone	**45.7**		0.44	10	1	04/12/2006	04/12/2006	U0412W01	
Bromochloromethane	**11.0**		0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Chloroform	**10.7**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1-Trichloroethane	**10.8**		0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloropropene	**10.5**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Carbon tetrachloride	**10.4**		0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Benzene	**10.2**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloroethane	**11.0**		0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Trichloroethene	**10.4**		0.21	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloropropane	**9.80**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Dibromomethane	**10.2**		0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromodichloromethane	**10.4**		0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
cis-1,3-Dichloropropene	**9.70**		0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
4-methyl-2-pentanone	**46.4**		0.40	10	1	04/12/2006	04/12/2006	U0412W01	
Toluene	**10.4**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
trans-1,3-Dichloropropene	**9.70**		0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichloroethane	**10.1**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tetrachloroethene	**11.2**		0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichloropropane	**10.1**		0.12	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Hexanone	**44.1**		0.54	10	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: U0412W01LCS

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	**9.90**		0.11	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromoethane	**10.5**		0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chlorobenzene	**10.4**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1,2-Tetrachloroethane	**10.0**		0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Ethylbenzene	**10.4**		0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
m-,p-Xylene	**20.3**		0.29	1.0	1	04/12/2006	04/12/2006	U0412W01	
o-Xylene	**10.2**		0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Xylene (total)	**30.5**		0.11	1.5	1	04/12/2006	04/12/2006	U0412W01	
Styrene	**10.2**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromoform	**9.20**		0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
Isopropylbenzene	**10.6**		0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2,2-Tetrachloroethane	**9.20**		0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromobenzene	**11.1**		0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichloropropane	**10.3**		0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Propylbenzene	**10.4**		0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
2-Chlorotoluene	**10.4**		0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3,5-Trimethylbenzene	**10.5**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
4-Chlorotoluene	**10.6**		0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
tert-Butylbenzene	**10.4**		0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trimethylbenzene	**10.5**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
sec-Butylbenzene	**10.2**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichlorobenzene	**10.6**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
p-Isopropyltoluene	**10.3**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,4-Dichlorobenzene	**10.4**		0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Butylbenzene	**10.3**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichlorobenzene	**10.3**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromo-3-chloropropane	**45.0**		0.53	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trichlorobenzene	**10.4**		0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Hexachlorobutadiene	**11.2**		0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Naphthalene	**9.20**		0.090	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichlorobenzene	**10.6**		0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: U0412W01LCS

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	104	88-119	04/12/2006	
Dibromofluoromethane - SS	97	87-123	04/12/2006	
Toluene-d8 - SS	95	82-115	04/12/2006	

Comments: _____

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062773.D

Date : 12-APR-2006 13:30

Client ID: U0412W01LCS

Instrument: MSU.i

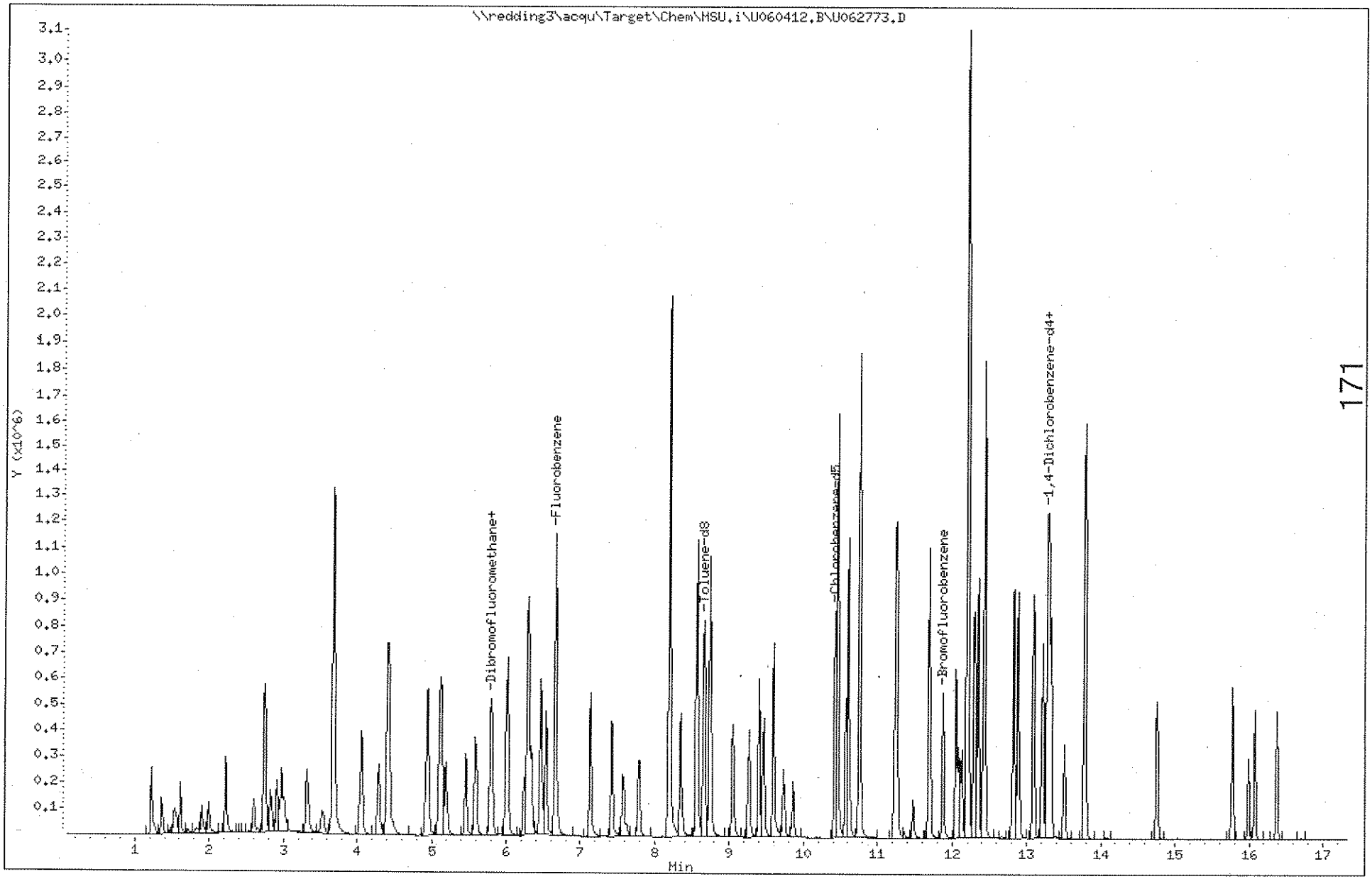
Sample Info: U0412W01LCS;U0412W01LCS

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062773.D
Lab Smp Id: U0412W01LCS Client Smp ID: U0412W01LCS
Inj Date : 12-APR-2006 13:30
Operator : X Inst ID: MSU.i
Smp Info : U0412W01LCS;U0412W01LCS
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\8260wCanoga.m
Meth Date : 12-Apr-2006 13:21 bgeers Quant Type: ISTD
Cal Date : 28-MAR-2006 16:56 Cal File: U062457.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Canoga-LJ964.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	6.668	6.668	(1.000)	761458	10.0000	
* 2	Chlorobenzene-d5	117	10.425	10.425	(1.000)	526717	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	237278	10.0000	
$ 4	Dibromofluoromethane	113	5.807	5.807	(0.871)	156980	9.66144	9.7
$ 6	Toluene-d8	98	8.663	8.663	(0.831)	623349	9.46237	9.5
$ 7	Bromofluorobenzene	174	11.883	11.883	(0.893)	188352	10.3582	10.4
8	Dichlorodifluoromethane	85	1.362	1.362	(0.204)	116189	8.77839	8.8
10	Chloromethane	50	1.544	1.534	(0.232)	175400	8.28482	8.3
11	Vinyl chloride	62	1.615	1.615	(0.242)	167162	9.45818	9.4
12	Bromomethane	94	1.898	1.899	(0.285)	69674	8.56748	8.6
13	Chloroethane	64	1.990	1.990	(0.298)	102702	10.2992	10.3
14	Trichlorofluoromethane	101	2.223	2.223	(0.333)	235108	11.8314	11.8
15	1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	136222	11.4488	11.4
17	1,1-Dichloroethene	96	2.749	2.749	(0.412)	116879	10.8650	10.9
18	Acetone	43	2.830	2.830	(0.424)	203187	46.0586	46.0
20	Carbon disulfide	76	2.972	2.972	(0.446)	369717	10.4717	10.5
21	Methylene chloride	84	3.326	3.316	(0.499)	134926	10.6666	10.7
25	trans-1,2-Dichloroethene	96	3.671	3.671	(0.550)	193147	10.4339	10.4
26	tert-Butylmethylether	73	3.681	3.691	(0.552)	559598	10.1136	10.1
27	1,1-Dichloroethane	63	4.288	4.288	(0.643)	356638	10.3949	10.4
29	Vinyl acetate	43	4.410	4.410	(0.661)	746594	9.87942	9.9(a)
31	2,2-Dichloropropane	77	5.109	5.109	(0.766)	285383	10.2811	10.3(Q)

U062772 14-06 KM 4/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	217248	10.2032	10.2
	34 2-Butanone	43	5.190	5.190	(0.778)	419577	45.7067	45.7
	35 Bromochloromethane	128	5.453	5.453	(0.818)	103924	11.0305	11.0
	36 Chloroform	83	5.584	5.585	(0.838)	335069	10.6759	10.7
	37 1,1,1-Trichloroethane	97	5.787	5.787	(0.868)	292746	10.7769	10.8
	39 1,1-Dichloropropene	75	6.020	6.020	(0.903)	261280	10.4960	10.5
	40 Carbon tetrachloride	119	6.000	6.000	(0.900)	211442	10.3759	10.4
	42 Benzene	78	6.293	6.293	(0.944)	784634	10.1845	10.2
	43 1,2-Dichloroethane	62	6.334	6.334	(0.950)	257830	10.9645	11.0
	45 Trichloroethene	95	7.134	7.134	(1.070)	196387	10.3996	10.4
	46 1,2-Dichloropropane	63	7.417	7.417	(1.112)	196592	9.77626	9.8
	48 Dibromomethane	93	7.569	7.569	(1.135)	108068	10.2360	10.2
	49 Bromodichloromethane	83	7.792	7.782	(1.169)	229807	10.4071	10.4
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	292891	9.66646	9.7
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	860217	46.4062	46.4
	53 Toluene	92	8.744	8.744	(0.839)	520263	10.4335	10.4
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	262471	9.68964	9.7
	55 1,1,2-Trichloroethane	83	9.260	9.260	(0.888)	128321	10.0635	10.1
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	207373	11.1749	11.2
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	284750	10.1008	10.1
	58 2-Hexanone	43	9.594	9.595	(0.920)	563875	44.1194	44.1
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	155127	9.86994	9.9
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	168139	10.4633	10.5
	62 Chlorobenzene	112	10.465	10.465	(1.004)	535178	10.3936	10.4(Q)
	63 1,1,1,2-Tetrachloroethane	131	10.567	10.567	(1.014)	176469	9.95185	10
	64 Ethylbenzene	91	10.607	10.607	(1.017)	879188	10.3520	10.4
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	678422	20.3279	20.3
	66 o-Xylene	106	11.235	11.235	(1.078)	331292	10.1908	10.2
M	67 Xylene (total)	106				1009714	30.5186	30.5
	68 Styrene	104	11.255	11.255	(1.080)	548173	10.1642	10.2
	69 Bromoform	173	11.478	11.478	(1.101)	80914	9.17184	9.2
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	853170	10.6100	10.6
	71 1,1,2,2-Tetrachloroethane	83	12.085	12.086	(0.909)	179549	9.22832	9.2
	72 Bromobenzene	156	12.055	12.055	(0.906)	218984	11.0745	11.1
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	61902	10.3101	10.3(Q)
	75 n-Propylbenzene	120	12.207	12.197	(0.918)	225125	10.4099	10.4
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	197749	10.4502	10.4
	78 1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	658642	10.4814	10.5
	79 4-Chlorotoluene	126	12.430	12.430	(0.935)	201723	10.5691	10.6
	80 tert-Butylbenzene	119	12.825	12.825	(0.964)	557533	10.3669	10.4
	81 1,2,4-Trimethylbenzene	105	12.885	12.886	(0.969)	651457	10.4969	10.5
	82 sec-Butylbenzene	105	13.088	13.088	(0.984)	754148	10.2080	10.2
	83 1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	387046	10.6238	10.6
	84 p-Isopropyltoluene	119	13.280	13.281	(0.998)	673769	10.3173	10.3
	85 1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	390735	10.3566	10.4
	87 n-Butylbenzene	91	13.787	13.787	(1.037)	549349	10.3025	10.3
	88 1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	358992	10.3494	10.3
	89 1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	135176	45.0374	45.0
	90 1,2,4-Trichlorobenzene	180	15.771	15.772	(1.186)	203286	10.4594	10.4
	91 Hexachlorobutadiene	225	15.994	15.994	(1.203)	68199	11.2546	11.2
	92 Naphthalene	128	16.075	16.075	(1.209)	426324	9.21442	9.2
	93 1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	183230	10.5843	10.6

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: U0412W01LCSD

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	**9.20**		0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloromethane	**8.10**		0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
Vinyl chloride	**9.30**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromomethane	**8.50**		0.23	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloroethane	**9.80**		0.19	1.0	1	04/12/2006	04/12/2006	U0412W01	
Trichlorofluoromethane	**11.9**		0.22	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichlorotrifluoroethane	**11.7**		0.16	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethene	**10.8**		0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Acetone	**47.0**		0.74	10	1	04/12/2006	04/12/2006	U0412W01	
Carbon disulfide	**10.3**		0.17	2.0	1	04/12/2006	04/12/2006	U0412W01	
Methylene chloride	**10.3**		0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
trans-1,2-Dichloroethene	**10.1**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tert-butylmethylether	**9.80**		0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethane	**10.3**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Vinyl acetate	**9.80**	J	0.18	10	1	04/12/2006	04/12/2006	U0412W01	
2,2-Dichloropropane	**9.80**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
cis-1,2-Dichloroethene	**10.0**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Butanone	**47.9**		0.44	10	1	04/12/2006	04/12/2006	U0412W01	
Bromochloromethane	**10.4**		0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Chloroform	**10.7**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1-Trichloroethane	**10.4**		0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloropropene	**10.3**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Carbon tetrachloride	**10.2**		0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Benzene	**9.90**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloroethane	**10.9**		0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Trichloroethene	**10.3**		0.21	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloropropane	**9.90**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Dibromomethane	**10.2**		0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromodichloromethane	**10.4**		0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
cis-1,3-Dichloropropene	**9.70**		0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
4-methyl-2-pentanone	**48.9**		0.40	10	1	04/12/2006	04/12/2006	U0412W01	
Toluene	**10.2**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
trans-1,3-Dichloropropene	**9.70**		0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichloroethane	**10.3**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tetrachloroethene	**11.0**		0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichloropropane	**10.4**		0.12	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Hexanone	**47.0**		0.54	10	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

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COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: U0412W01LCSD

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	**10.2**		0.11	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromoethane	**10.3**		0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chlorobenzene	**10.5**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1,2-Tetrachloroethane	**9.80**		0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Ethylbenzene	**10.3**		0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
m-,p-Xylene	**20.2**		0.29	1.0	1	04/12/2006	04/12/2006	U0412W01	
o-Xylene	**9.80**		0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Xylene (total)	**30.0**		0.11	1.5	1	04/12/2006	04/12/2006	U0412W01	
Styrene	**10.1**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromoform	**9.40**		0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
Isopropylbenzene	**10.4**		0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2,2-Tetrachloroethane	**9.60**		0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromobenzene	**10.8**		0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichloropropane	**10.4**		0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Propylbenzene	**10.2**		0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
2-Chlorotoluene	**10.2**		0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3,5-Trimethylbenzene	**10.4**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
4-Chlorotoluene	**10.4**		0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
tert-Butylbenzene	**10.3**		0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trimethylbenzene	**10.4**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
sec-Butylbenzene	**10.2**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichlorobenzene	**10.4**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
p-Isopropyltoluene	**10.1**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,4-Dichlorobenzene	**10.3**		0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Butylbenzene	**10.0**		0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichlorobenzene	**10.4**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromo-3-chloropropane	**48.0**		0.53	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trichlorobenzene	**10.3**		0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Hexachlorobutadiene	**10.7**		0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Naphthalene	**9.60**		0.090	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichlorobenzene	**10.2**		0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: U0412W01LCSD

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

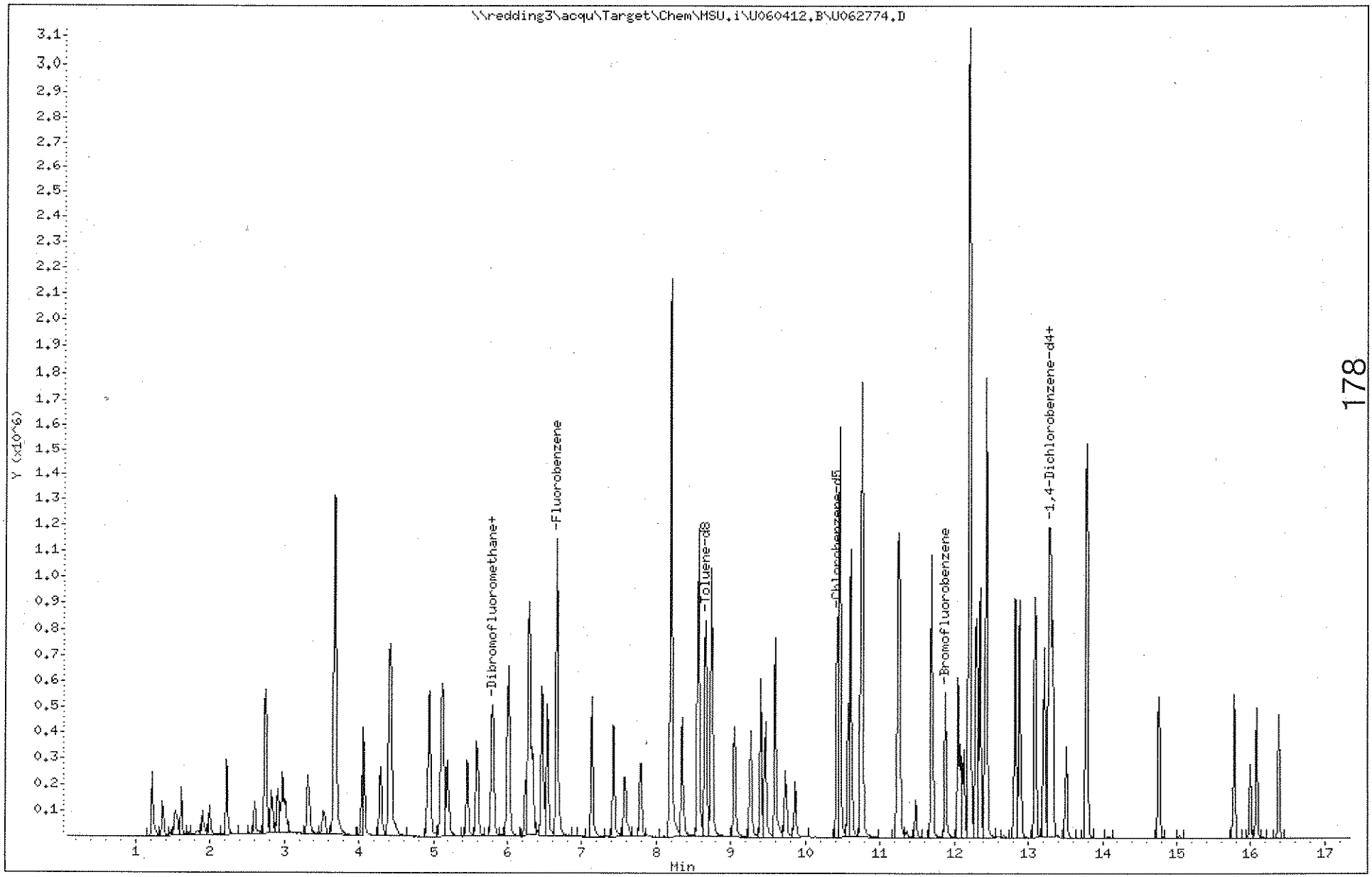
Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	104	88-119	04/12/2006	
Dibromofluoromethane - SS	94	87-123	04/12/2006	
Toluene-d8 - SS	95	82-115	04/12/2006	

Comments: _____

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062774.D
Date : 12-APR-2006 13:55
Client ID: U0412W01LCSD
Sample Info: U0412W01LCSD;U0412W01LCSD
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: X
Column diameter: 0.32



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Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062774.D
Lab Smp Id: U0412W01LCSD Client Smp ID: U0412W01LCSD
Inj Date : 12-APR-2006 13:55
Operator : X Inst ID: MSU.i
Smp Info : U0412W01LCSD;U0412W01LCSD
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\8260wCanoga.m
Meth Date : 12-Apr-2006 13:21 bgeers Quant Type: ISTD
Cal Date : 28-MAR-2006 16:56 Cal File: U062457.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Canoga-LJ964.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	6.668	6.668	(1.000)	754429	10.0000	
* 2	Chlorobenzene-d5	117	10.425	10.425	(1.000)	516148	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	232766	10.0000	
$ 4	Dibromofluoromethane	113	5.807	5.807	(0.871)	150992	9.37948	9.4
$ 6	Toluene-d8	98	8.663	8.663	(0.831)	616401	9.54850	9.5
$ 7	Bromofluorobenzene	174	11.883	11.883	(0.893)	185051	10.3740	10.4
8	Dichlorodifluoromethane	85	1.362	1.362	(0.204)	120796	9.21150	9.2
10	Chloromethane	50	1.534	1.534	(0.230)	170847	8.14495	8.1
11	Vinyl chloride	62	1.615	1.615	(0.242)	162179	9.26173	9.3
12	Bromomethane	94	1.899	1.899	(0.285)	68541	8.50668	8.5
13	Chloroethane	64	1.990	1.990	(0.298)	96604	9.77791	9.8
14	Trichlorofluoromethane	101	2.223	2.223	(0.333)	234975	11.9348	11.9
15	1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	138243	11.7269	11.7(R)
17	1,1-Dichloroethene	96	2.749	2.749	(0.412)	114677	10.7596	10.8
18	Acetone	43	2.830	2.830	(0.424)	205516	47.0206	47.0
20	Carbon disulfide	76	2.972	2.972	(0.446)	360310	10.3003	10.3
21	Methylene chloride	84	3.326	3.316	(0.499)	129503	10.3333	10.3
25	trans-1,2-Dichloroethene	96	3.671	3.671	(0.551)	185981	10.1404	10.1
26	tert-Butylmethylether	73	3.691	3.691	(0.554)	539048	9.83298	9.8
27	1,1-Dichloroethane	63	4.288	4.288	(0.643)	351477	10.3399	10.3
29	Vinyl acetate	43	4.410	4.410	(0.661)	734805	9.81402	9.8(a)
31	2,2-Dichloropropane	77	5.109	5.109	(0.766)	270981	9.85322	9.8(Q)

OK

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4/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	210902	9.99746	10
	34 2-Butanone	43	5.190	5.190	(0.778)	435654	47.9002	47.9
	35 Bromochloromethane	128	5.463	5.453	(0.819)	96704	10.3598	10.4
	36 Chloroform	83	5.585	5.585	(0.838)	332078	10.6792	10.7
	37 1,1,1-Trichloroethane	97	5.787	5.787	(0.868)	279930	10.4011	10.4
	39 1,1-Dichloropropene	75	6.020	6.020	(0.903)	253905	10.2947	10.3
	40 Carbon tetrachloride	119	6.000	6.000	(0.900)	206895	10.2474	10.2
	42 Benzene	78	6.293	6.293	(0.944)	758840	9.94142	9.9
	43 1,2-Dichloroethane	62	6.334	6.334	(0.950)	254217	10.9116	10.9
	45 Trichloroethene	95	7.134	7.134	(1.070)	192763	10.3028	10.3
	46 1,2-Dichloropropane	63	7.417	7.417	(1.112)	197056	9.89063	9.9
	48 Dibromomethane	93	7.569	7.569	(1.135)	106292	10.1616	10.2
	49 Bromodichloromethane	83	7.792	7.782	(1.169)	227129	10.3816	10.4
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	292622	9.74756	9.7
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	897836	48.8869	48.9
	53 Toluene	92	8.744	8.744	(0.839)	499825	10.2289	10.2
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	257154	9.68774	9.7
	55 1,1,2-Trichloroethane	83	9.260	9.260	(0.888)	128280	10.2663	10.3
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	199825	10.9886	11.0
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	286528	10.3720	10.4
	58 2-Hexanone	43	9.595	9.595	(0.920)	588529	46.9913	47.0
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	156708	10.1747	10.2
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	161665	10.2664	10.3
	62 Chlorobenzene	112	10.465	10.465	(1.004)	528261	10.4693	10.5(Q)
	63 1,1,1,2-Tetrachloroethane	131	10.577	10.567	(1.015)	170760	9.82708	9.8
	64 Ethylbenzene	91	10.607	10.607	(1.017)	859511	10.3275	10.3
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	661030	20.2123	20.2
	66 o-Xylene	106	11.235	11.235	(1.078)	313029	9.82615	9.8
M	67 Xylene (total)	106				974059	30.0385	30.0
	68 Styrene	104	11.255	11.255	(1.080)	533735	10.0991	10.1
	69 Bromoform	173	11.478	11.478	(1.101)	81454	9.42212	9.4
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	818224	10.3838	10.4
	71 1,1,2,2-Tetrachloroethane	83	12.086	12.086	(0.909)	183431	9.61059	9.6
	72 Bromobenzene	156	12.055	12.055	(0.906)	209169	10.7831	10.8
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	61059	10.3669	10.4(Q)
	75 n-Propylbenzene	120	12.207	12.197	(0.918)	215778	10.1711	10.2
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	189622	10.2150	10.2
	78 1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	641207	10.4017	10.4
	79 4-Chlorotoluene	126	12.430	12.430	(0.935)	195509	10.4421	10.4
	80 tert-Butylbenzene	119	12.825	12.825	(0.964)	543121	10.2947	10.3
	81 1,2,4-Trimethylbenzene	105	12.886	12.886	(0.969)	632690	10.3921	10.4
	82 sec-Butylbenzene	105	13.088	13.088	(0.984)	736790	10.1664	10.2
	83 1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	371881	10.4054	10.4
	84 p-Isopropyltoluene	119	13.280	13.281	(0.998)	644776	10.0648	10.1
	85 1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	382376	10.3315	10.3
	87 n-Butylbenzene	91	13.787	13.787	(1.037)	525602	10.0483	10.0
	88 1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	353062	10.3758	10.4
	89 1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	141295	47.9886	48.0
	90 1,2,4-Trichlorobenzene	180	15.772	15.772	(1.186)	196821	10.3231	10.3
	91 Hexachlorobutadiene	225	15.994	15.994	(1.203)	63722	10.7196	10.7
	92 Naphthalene	128	16.075	16.075	(1.209)	436969	9.62758	9.6
	93 1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	173509	10.2170	10.2

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

SUPPORT DOCUMENTATION

Columbia Analytical Services

GC/MS VOA Injection Log

MSU; Gummo

Date
03/28/06

Analyst: PC
ICAL Date: 03/28/06
Method: SW846 8260B

Internal Standard Std Prep # 8mar - 95A-3
BFB / Surrogate Std Prep # 8mar - 100-2
Calibration Std Prep # 8mar - 101-1E
QCALTSTD / LCS Std Prep # 8mar - 102-1E
MS/MSD Std Prep # ↓

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
0829	V062438	BFB	NA	WA	NA	NA	NA	NA	✓	✓	
0946	39	VSTD00.3							N	N	Front end elevated bad gas cylinder. Lenn Deal
0942	40	VSTD00.5							N	N	
1007	41	VSTD001							N	N	
1033	42	VSTD005							N	N	
1059	43	VSTD010							N	N	
1124	44	VSTD020							✓	N	
1150	45	VSTD040							✓	N	
1215	46	QCALTSTD							✓	N	
1241	47	QCALTSTD							✓	N	
—	48	Wash							—	—	
—	49	Wash							—	—	
—	50	Wash							—	—	
1423	51	VSTD00.3							✓	✓	
1448	52	VSTD00.5							✓	✓	
1514	53	VSTD001							✓	✓	
1539	54	VSTD005							✓	✓	
1605	55	VSTD010							✓	✓	
1630	56	VSTD020							✓	✓	
1656	57	VSTD040							✓	✓	
1721	58	QCALTSTD							✓	N	Use 2nd
1747	59	QCALTSTD	↓		↓	↓	↓	↓	✓	✓	
—	60	—	—		—	—	—	—	—	—	
—	61	—	—		—	—	—	—	—	—	
—	62	—	—		—	—	—	—	—	—	
—	63	—	—		—	—	—	—	—	—	
—	64	—	—		—	—	—	—	—	—	
—	65	—	—		—	—	—	—	—	—	
—	66	—	—	↓	—	—	—	—	—	—	

3/28/06

3/29/06

RC 3/28/06

Last Analysis within 12-Hour clock? ☑ Yes ☐ No

CCV Used? ☐ ~~#3~~ ☒ #4 Front

MS/MSD present? ☐ Yes ☒ No TOMCAT only

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Columbia Analytical Services
GC/MS VOA Injection Log
MSU; Gummo

Date
4-12-06

Analyst: LL
ICAL Date: 3-28-06
Method: SW8260B

Internal Standard Std Prep # 8-MSV-95A-3
BFB / Surrogate Std Prep # 8-MSV-100-1
Calibration Std Prep # 8-MSV-101-LHE
QCALTSTD / LCS Std Prep # 8-MSV-102-H
MS/MSD Std Prep #

#51218

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
11:46	LL062710	BFB	NA	NA	NA	NA	NA	NA	Y	Y	
12:16	71	USTD010							N	N	Toluene ↑
14:51	72	USTD010							Y	Y	
13:30	73	LL0412WBLCS							Y	Y	
13:55	74	LCSD							Y	Y	1,4,2-TCTFT OK
14:21	75	Wash							Y	Y	
14:46	76	Wash							—	—	
15:12	77	LL0412W01							Y	Y	
15:37	78	L0660580-001	61	H2O	4.2	1.0X			Y	Y	LJ1200
16:03	79	002									
16:28	80	003									
16:54	81	004									
17:19	82	~~L0600~~ 005									
17:45	83	L0600525-001							N		LJ905 TBME135
18:10	84	002							Y		
18:36	85	003	04						Y		
19:01	86	004	04						N		TBME138
19:27	87	005	02								
19:52	88	L0600578005	01						Y		LJ-84
20:18	89	006									
20:43	90	007									
21:09	91	L0600541-001									LJ1200
21:35	92	002							N		1,4-DCB-d4 TCE 141 PCE 227
22:00	93	003							N		TCE 247 PCE 191
22:25	94	004							Y		
22:51	95	005							Y		
23:16	96	003MS							Y	N	not required
23:42	97	003MSD							Y	N	" "

Last Analysis within 12-Hour clock? ☒ Yes ☐ No CCV Used? ☒ #3 ☐ #4 MS/MSD present? ☑ Yes ☐ No

GC/MS SEMIVOLATILE ORGANICS

Client: GeoSyntec Consultants **Service Request:** L0600578
Project: TDY/SC0307

Cover Page - Organic Analysis Data Package
Base Neutral / Acid Semivolatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
T-45 GW-37	L0600578-001	03/30/2006	04/03/2006
T-45 GW-11	L0600578-002	03/30/2006	04/03/2006
T-44 GW-11	L0600578-003	03/30/2006	04/03/2006
T-46 GW-11	L0600578-004	03/30/2006	04/03/2006
B131-MW2D	L0600578-005	03/31/2006	04/03/2006
B131-MW3D	L0600578-007	03/31/2006	04/03/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang Name: WIDA ANG

Date: 4/28/06 Title: Organic Manager

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-45 GW-37
Lab Code: L0600578-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
1,2-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,3-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dioxane	ND	U	2.0	0.50	1	04/06/06	04/24/06	LWG0600535	
2,4,5-Trichlorophenol	ND	U	4.8	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4,6-Trichlorophenol	ND	U	4.8	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4-Dichlorophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dimethylphenol	ND	U	9.6	2.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrophenol	ND	U	48	1.5	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrotoluene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2,6-Dinitrotoluene	ND	U	4.8	1.8	1	04/06/06	04/24/06	LWG0600535	
2-Chloronaphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Chlorophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methyl-4,6-dinitrophenol	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	*
2-Methylnaphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methylphenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Nitroaniline	ND	U	20	1.0	1	04/06/06	04/24/06	LWG0600535	*
2-Nitrophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
3,3'-Dichlorobenzidine	ND	U	20	3.5	1	04/06/06	04/24/06	LWG0600535	
3- and 4-Methylphenol Coelution	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
3-Nitroaniline	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	
4-Bromophenyl Phenyl Ether	ND	U	4.8	2.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloro-3-methylphenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloroaniline	ND	U	4.8	1.7	1	04/06/06	04/24/06	LWG0600535	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Nitroaniline	ND	U	20	1.9	1	04/06/06	04/24/06	LWG0600535	
4-Nitrophenol	ND	U	48	1.7	1	04/06/06	04/24/06	LWG0600535	
Acenaphthene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Acenaphthylene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Aniline	ND	U	4.8	3.0	1	04/06/06	04/24/06	LWG0600535	*
Anthracene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Benz(a)anthracene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
Benzo(a)pyrene	ND	U	4.8	1.8	1	04/06/06	04/24/06	LWG0600535	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-45 GW-37
Lab Code: L0600578-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	1.7	1	04/06/06	04/24/06	LWG0600535	
Benzo(g,h,i)perylene	ND	U	4.8	4.1	1	04/06/06	04/24/06	LWG0600535	
Benzo(k)fluoranthene	ND	U	4.8	1.9	1	04/06/06	04/24/06	LWG0600535	
Benzoic acid	**5.7**	J	48	2.7	1	04/06/06	04/24/06	LWG0600535	*
Benzyl alcohol	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
bis(2-Chloroethoxy)methane	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-chloroethyl) Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Bis(2-chloroisopropyl) Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-ethylhexyl) Phthalate	**1.7**	J	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Butyl Benzyl Phthalate	ND	U	4.8	1.6	1	04/06/06	04/24/06	LWG0600535	
Chrysene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
Di-n-butyl Phthalate	ND	U	4.8	2.0	1	04/06/06	04/24/06	LWG0600535	
Di-n-octyl Phthalate	ND	U	4.8	1.3	1	04/06/06	04/24/06	LWG0600535	
Dibenz(a,h)anthracene	ND	U	4.8	3.4	1	04/06/06	04/24/06	LWG0600535	
Dibenzofuran	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Diethyl Phthalate	ND	U	6.6	6.6	1	04/06/06	04/24/06	LWG0600535	
Dimethyl Phthalate	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluoranthene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluorene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobenzene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobutadiene	ND	U	9.6	1.6	1	04/06/06	04/24/06	LWG0600535	
Hexachlorocyclopentadiene	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachloroethane	ND	U	9.6	4.0	1	04/06/06	04/24/06	LWG0600535	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	3.8	1	04/06/06	04/24/06	LWG0600535	
Isophorone	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodi-n-propylamine	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodimethylamine	ND	U	4.8	2.8	1	04/06/06	04/24/06	LWG0600535	*
N-Nitrosodiphenylamine	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Naphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Nitrobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Pentachlorophenol	ND	U	29	1.4	1	04/06/06	04/24/06	LWG0600535	
Phenanthrene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Phenol	**6.2**		4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Pyrene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-45 GW-37
Lab Code: L0600578-001

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	2.9	1	04/06/06	04/24/06	LWG0600535	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	102	43-104	04/24/06	Acceptable
2-Fluorobiphenyl	91	50-101	04/24/06	Acceptable
2-Fluorophenol	84	45-101	04/24/06	Acceptable
Nitrobenzene-d5	96	58-105	04/24/06	Acceptable
Phenol-d5	87	49-107	04/24/06	Acceptable
Terphenyl-d14	84	34-120	04/24/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-45 GW-11
Lab Code: L0600578-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
1,2-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,3-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dioxane	**150**	D	20	5.0	10	04/06/06	04/24/06	LWG0600535	
2,4,5-Trichlorophenol	ND	U	4.8	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4,6-Trichlorophenol	ND	U	4.8	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4-Dichlorophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dimethylphenol	ND	U	9.6	2.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrophenol	ND	U	48	1.5	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrotoluene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2,6-Dinitrotoluene	ND	U	4.8	1.8	1	04/06/06	04/24/06	LWG0600535	
2-Chloronaphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Chlorophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methyl-4,6-dinitrophenol	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	*
2-Methylnaphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methylphenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Nitroaniline	ND	U	20	1.0	1	04/06/06	04/24/06	LWG0600535	*
2-Nitrophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
3,3'-Dichlorobenzidine	ND	U	20	3.5	1	04/06/06	04/24/06	LWG0600535	
3- and 4-Methylphenol Coelution	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
3-Nitroaniline	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	
4-Bromophenyl Phenyl Ether	ND	U	4.8	2.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloro-3-methylphenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloroaniline	ND	U	4.8	1.7	1	04/06/06	04/24/06	LWG0600535	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Nitroaniline	ND	U	20	1.9	1	04/06/06	04/24/06	LWG0600535	
4-Nitrophenol	ND	U	48	1.7	1	04/06/06	04/24/06	LWG0600535	
Acenaphthene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Acenaphthylene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Aniline	ND	U	4.8	3.0	1	04/06/06	04/24/06	LWG0600535	*
Anthracene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Benz(a)anthracene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
Benzo(a)pyrene	ND	U	4.8	1.8	1	04/06/06	04/24/06	LWG0600535	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-45 GW-11
Lab Code: L0600578-002

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	1.7	1	04/06/06	04/24/06	LWG0600535	
Benzo(g,h,i)perylene	ND	U	4.8	4.1	1	04/06/06	04/24/06	LWG0600535	
Benzo(k)fluoranthene	ND	U	4.8	1.9	1	04/06/06	04/24/06	LWG0600535	
Benzoic acid	**3.6**	J	48	2.7	1	04/06/06	04/24/06	LWG0600535	*
Benzyl alcohol	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
bis(2-Chloroethoxy)methane	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-chloroethyl) Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Bis(2-chloroisopropyl) Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-ethylhexyl) Phthalate	**94**		4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Butyl Benzyl Phthalate	ND	U	4.8	1.6	1	04/06/06	04/24/06	LWG0600535	
Chrysene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
Di-n-butyl Phthalate	ND	U	4.8	2.0	1	04/06/06	04/24/06	LWG0600535	
Di-n-octyl Phthalate	ND	U	4.8	1.3	1	04/06/06	04/24/06	LWG0600535	
Dibenz(a,h)anthracene	ND	U	4.8	3.4	1	04/06/06	04/24/06	LWG0600535	
Dibenzofuran	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Diethyl Phthalate	ND	U	6.6	6.6	1	04/06/06	04/24/06	LWG0600535	
Dimethyl Phthalate	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluoranthene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluorene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobenzene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobutadiene	ND	U	9.6	1.6	1	04/06/06	04/24/06	LWG0600535	
Hexachlorocyclopentadiene	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachloroethane	ND	U	9.6	4.0	1	04/06/06	04/24/06	LWG0600535	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	3.8	1	04/06/06	04/24/06	LWG0600535	
Isophorone	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodi-n-propylamine	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodimethylamine	ND	U	4.8	2.8	1	04/06/06	04/24/06	LWG0600535	*
N-Nitrosodiphenylamine	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Naphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Nitrobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Pentachlorophenol	ND	U	29	1.4	1	04/06/06	04/24/06	LWG0600535	
Phenanthrene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Phenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Pyrene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-45 GW-11
Lab Code: L0600578-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	2.9	1	04/06/06	04/24/06	LWG0600535	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	104	43-104	04/24/06	Acceptable
2-Fluorobiphenyl	96	50-101	04/24/06	Acceptable
2-Fluorophenol	85	45-101	04/24/06	Acceptable
Nitrobenzene-d5	101	58-105	04/24/06	Acceptable
Phenol-d5	89	49-107	04/24/06	Acceptable
Terphenyl-d14	102	34-120	04/24/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-44 GW-11
Lab Code: L0600578-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
1,2-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,3-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dioxane	**0.63**	J	2.0	0.50	1	04/06/06	04/24/06	LWG0600535	
2,4,5-Trichlorophenol	ND	U	4.8	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4,6-Trichlorophenol	ND	U	4.8	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4-Dichlorophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dimethylphenol	ND	U	9.6	2.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrophenol	ND	U	48	1.5	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrotoluene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2,6-Dinitrotoluene	ND	U	4.8	1.8	1	04/06/06	04/24/06	LWG0600535	
2-Chloronaphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Chlorophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methyl-4,6-dinitrophenol	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	*
2-Methylnaphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methylphenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Nitroaniline	ND	U	20	1.0	1	04/06/06	04/24/06	LWG0600535	*
2-Nitrophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
3,3'-Dichlorobenzidine	ND	U	20	3.5	1	04/06/06	04/24/06	LWG0600535	
3- and 4-Methylphenol Coelution	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
3-Nitroaniline	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	
4-Bromophenyl Phenyl Ether	ND	U	4.8	2.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloro-3-methylphenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloroaniline	ND	U	4.8	1.7	1	04/06/06	04/24/06	LWG0600535	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Nitroaniline	ND	U	20	1.9	1	04/06/06	04/24/06	LWG0600535	
4-Nitrophenol	ND	U	48	1.7	1	04/06/06	04/24/06	LWG0600535	
Acenaphthene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Acenaphthylene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Aniline	ND	U	4.8	3.0	1	04/06/06	04/24/06	LWG0600535	*
Anthracene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Benz(a)anthracene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
Benzo(a)pyrene	ND	U	4.8	1.8	1	04/06/06	04/24/06	LWG0600535	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-44 GW-11
Lab Code: L0600578-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	1.7	1	04/06/06	04/24/06	LWG0600535	
Benzo(g,h,i)perylene	ND	U	4.8	4.1	1	04/06/06	04/24/06	LWG0600535	
Benzo(k)fluoranthene	ND	U	4.8	1.9	1	04/06/06	04/24/06	LWG0600535	
Benzoic acid	**3.6**	J	48	2.7	1	04/06/06	04/24/06	LWG0600535	*
Benzyl alcohol	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
bis(2-Chloroethoxy)methane	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-chloroethyl) Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Bis(2-chloroisopropyl) Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-ethylhexyl) Phthalate	**1.5**	J	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Butyl Benzyl Phthalate	ND	U	4.8	1.6	1	04/06/06	04/24/06	LWG0600535	
Chrysene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
Di-n-butyl Phthalate	ND	U	4.8	2.0	1	04/06/06	04/24/06	LWG0600535	
Di-n-octyl Phthalate	ND	U	4.8	1.3	1	04/06/06	04/24/06	LWG0600535	
Dibenz(a,h)anthracene	ND	U	4.8	3.4	1	04/06/06	04/24/06	LWG0600535	
Dibenzofuran	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Diethyl Phthalate	ND	U	6.6	6.6	1	04/06/06	04/24/06	LWG0600535	
Dimethyl Phthalate	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluoranthene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluorene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobenzene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobutadiene	ND	U	9.6	1.6	1	04/06/06	04/24/06	LWG0600535	
Hexachlorocyclopentadiene	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachloroethane	ND	U	9.6	4.0	1	04/06/06	04/24/06	LWG0600535	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	3.8	1	04/06/06	04/24/06	LWG0600535	
Isophorone	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodi-n-propylamine	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodimethylamine	ND	U	4.8	2.8	1	04/06/06	04/24/06	LWG0600535	*
N-Nitrosodiphenylamine	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Naphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Nitrobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Pentachlorophenol	ND	U	29	1.4	1	04/06/06	04/24/06	LWG0600535	
Phenanthrene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Phenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Pyrene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-44 GW-11
Lab Code: L0600578-003

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	2.9	1	04/06/06	04/24/06	LWG0600535	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	106	43-104	04/24/06	Outside Control Limits
2-Fluorobiphenyl	91	50-101	04/24/06	Acceptable
2-Fluorophenol	85	45-101	04/24/06	Acceptable
Nitrobenzene-d5	96	58-105	04/24/06	Acceptable
Phenol-d5	88	49-107	04/24/06	Acceptable
Terphenyl-d14	80	34-120	04/24/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-46 GW-11
Lab Code: L0600578-004

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
1,2-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,3-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dichlorobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dioxane	**90**		2.0	0.50	1	04/06/06	04/24/06	LWG0600535	
2,4,5-Trichlorophenol	ND	U	4.8	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4,6-Trichlorophenol	ND	U	4.8	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4-Dichlorophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dimethylphenol	ND	U	9.6	2.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrophenol	ND	U	48	1.5	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrotoluene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2,6-Dinitrotoluene	ND	U	4.8	1.8	1	04/06/06	04/24/06	LWG0600535	
2-Chloronaphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Chlorophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methyl-4,6-dinitrophenol	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	*
2-Methylnaphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methylphenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Nitroaniline	ND	U	20	1.0	1	04/06/06	04/24/06	LWG0600535	*
2-Nitrophenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
3,3'-Dichlorobenzidine	ND	U	20	3.5	1	04/06/06	04/24/06	LWG0600535	
3- and 4-Methylphenol Coelution	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
3-Nitroaniline	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	
4-Bromophenyl Phenyl Ether	ND	U	4.8	2.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloro-3-methylphenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloroaniline	ND	U	4.8	1.7	1	04/06/06	04/24/06	LWG0600535	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Nitroaniline	ND	U	20	1.9	1	04/06/06	04/24/06	LWG0600535	
4-Nitrophenol	ND	U	48	1.7	1	04/06/06	04/24/06	LWG0600535	
Acenaphthene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Acenaphthylene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Aniline	ND	U	4.8	3.0	1	04/06/06	04/24/06	LWG0600535	*
Anthracene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Benz(a)anthracene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
Benzo(a)pyrene	ND	U	4.8	1.8	1	04/06/06	04/24/06	LWG0600535	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-46 GW-11
Lab Code: L0600578-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	1.7	1	04/06/06	04/24/06	LWG0600535	
Benzo(g,h,i)perylene	ND	U	4.8	4.1	1	04/06/06	04/24/06	LWG0600535	
Benzo(k)fluoranthene	ND	U	4.8	1.9	1	04/06/06	04/24/06	LWG0600535	
Benzoic acid	**3.6**	J	48	2.7	1	04/06/06	04/24/06	LWG0600535	*
Benzyl alcohol	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
bis(2-Chloroethoxy)methane	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-chloroethyl) Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Bis(2-chloroisopropyl) Ether	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-ethylhexyl) Phthalate	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Butyl Benzyl Phthalate	ND	U	4.8	1.6	1	04/06/06	04/24/06	LWG0600535	
Chrysene	ND	U	4.8	1.5	1	04/06/06	04/24/06	LWG0600535	
Di-n-butyl Phthalate	ND	U	4.8	2.0	1	04/06/06	04/24/06	LWG0600535	
Di-n-octyl Phthalate	ND	U	4.8	1.3	1	04/06/06	04/24/06	LWG0600535	
Dibenz(a,h)anthracene	ND	U	4.8	3.4	1	04/06/06	04/24/06	LWG0600535	
Dibenzofuran	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Diethyl Phthalate	ND	U	6.6	6.6	1	04/06/06	04/24/06	LWG0600535	
Dimethyl Phthalate	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluoranthene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluorene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobenzene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobutadiene	ND	U	9.6	1.6	1	04/06/06	04/24/06	LWG0600535	
Hexachlorocyclopentadiene	ND	U	9.6	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachloroethane	ND	U	9.6	4.0	1	04/06/06	04/24/06	LWG0600535	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	3.8	1	04/06/06	04/24/06	LWG0600535	
Isophorone	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodi-n-propylamine	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodimethylamine	ND	U	4.8	2.8	1	04/06/06	04/24/06	LWG0600535	*
N-Nitrosodiphenylamine	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Naphthalene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Nitrobenzene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	*
Pentachlorophenol	ND	U	29	1.4	1	04/06/06	04/24/06	LWG0600535	
Phenanthrene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Phenol	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	
Pyrene	ND	U	4.8	1.0	1	04/06/06	04/24/06	LWG0600535	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/30/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: T-46 GW-11
Lab Code: L0600578-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	2.9	1	04/06/06	04/24/06	LWG0600535	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	108	43-104	04/24/06	Outside Control Limits
2-Fluorobiphenyl	92	50-101	04/24/06	Acceptable
2-Fluorophenol	84	45-101	04/24/06	Acceptable
Nitrobenzene-d5	97	58-105	04/24/06	Acceptable
Phenol-d5	87	49-107	04/24/06	Acceptable
Terphenyl-d14	84	34-120	04/24/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: B131-MW2D
Lab Code: L0600578-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	1.5	1	04/06/06	04/24/06	LWG0600535	
1,2-Dichlorobenzene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
1,3-Dichlorobenzene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dichlorobenzene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dioxane	ND	U	2.0	0.50	1	04/06/06	04/24/06	LWG0600535	
2,4,5-Trichlorophenol	ND	U	5.0	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4,6-Trichlorophenol	ND	U	5.0	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4-Dichlorophenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dimethylphenol	ND	U	10	2.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrophenol	ND	U	50	1.5	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrotoluene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2,6-Dinitrotoluene	ND	U	5.0	1.8	1	04/06/06	04/24/06	LWG0600535	
2-Chloronaphthalene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Chlorophenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methyl-4,6-dinitrophenol	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	*
2-Methylnaphthalene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methylphenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Nitroaniline	ND	U	20	1.0	1	04/06/06	04/24/06	LWG0600535	*
2-Nitrophenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	*
3,3'-Dichlorobenzidine	ND	U	20	3.5	1	04/06/06	04/24/06	LWG0600535	
3- and 4-Methylphenol Coelution	ND	U	10	1.0	1	04/06/06	04/24/06	LWG0600535	
3-Nitroaniline	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	
4-Bromophenyl Phenyl Ether	ND	U	5.0	2.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloro-3-methylphenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloroaniline	ND	U	5.0	1.7	1	04/06/06	04/24/06	LWG0600535	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Nitroaniline	ND	U	20	1.9	1	04/06/06	04/24/06	LWG0600535	
4-Nitrophenol	ND	U	50	1.7	1	04/06/06	04/24/06	LWG0600535	
Acenaphthene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Acenaphthylene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Aniline	ND	U	5.0	3.0	1	04/06/06	04/24/06	LWG0600535	*
Anthracene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Benz(a)anthracene	ND	U	5.0	1.5	1	04/06/06	04/24/06	LWG0600535	
Benzo(a)pyrene	ND	U	5.0	1.8	1	04/06/06	04/24/06	LWG0600535	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: B131-MW2D
Lab Code: L0600578-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	1.7	1	04/06/06	04/24/06	LWG0600535	
Benzo(g,h,i)perylene	ND	U	5.0	4.1	1	04/06/06	04/24/06	LWG0600535	
Benzo(k)fluoranthene	ND	U	5.0	1.9	1	04/06/06	04/24/06	LWG0600535	
Benzoic acid	**4.7**	J	50	2.7	1	04/06/06	04/24/06	LWG0600535	*
Benzyl alcohol	ND	U	10	1.0	1	04/06/06	04/24/06	LWG0600535	
bis(2-Chloroethoxy)methane	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-chloroethyl) Ether	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Bis(2-chloroisopropyl) Ether	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-ethylhexyl) Phthalate	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Butyl Benzyl Phthalate	ND	U	5.0	1.6	1	04/06/06	04/24/06	LWG0600535	
Chrysene	ND	U	5.0	1.5	1	04/06/06	04/24/06	LWG0600535	
Di-n-butyl Phthalate	ND	U	5.0	2.0	1	04/06/06	04/24/06	LWG0600535	
Di-n-octyl Phthalate	ND	U	5.0	1.3	1	04/06/06	04/24/06	LWG0600535	
Dibenz(a,h)anthracene	ND	U	5.0	3.4	1	04/06/06	04/24/06	LWG0600535	
Dibenzofuran	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Diethyl Phthalate	ND	U	6.6	6.6	1	04/06/06	04/24/06	LWG0600535	
Dimethyl Phthalate	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluoranthene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluorene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobenzene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobutadiene	ND	U	10	1.6	1	04/06/06	04/24/06	LWG0600535	
Hexachlorocyclopentadiene	ND	U	10	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachloroethane	ND	U	10	4.0	1	04/06/06	04/24/06	LWG0600535	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	3.8	1	04/06/06	04/24/06	LWG0600535	
Isophorone	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodi-n-propylamine	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodimethylamine	ND	U	5.0	2.8	1	04/06/06	04/24/06	LWG0600535	*
N-Nitrosodiphenylamine	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Naphthalene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Nitrobenzene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	*
Pentachlorophenol	ND	U	30	1.4	1	04/06/06	04/24/06	LWG0600535	
Phenanthrene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Phenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Pyrene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: B131-MW2D
Lab Code: L0600578-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	2.9	1	04/06/06	04/24/06	LWG0600535	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	104	43-104	04/24/06	Acceptable
2-Fluorobiphenyl	95	50-101	04/24/06	Acceptable
2-Fluorophenol	85	45-101	04/24/06	Acceptable
Nitrobenzene-d5	102	58-105	04/24/06	Acceptable
Phenol-d5	84	49-107	04/24/06	Acceptable
Terphenyl-d14	92	34-120	04/24/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: B131-MW3D
Lab Code: L0600578-007

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.2	1.6	1	04/06/06	04/24/06	LWG0600535	
1,2-Dichlorobenzene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
1,3-Dichlorobenzene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
1,4-Dichlorobenzene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
1,4-Dioxane	ND	U	2.1	0.52	1	04/06/06	04/24/06	LWG0600535	
2,4,5-Trichlorophenol	ND	U	5.2	2.3	1	04/06/06	04/24/06	LWG0600535	
2,4,6-Trichlorophenol	ND	U	5.2	2.3	1	04/06/06	04/24/06	LWG0600535	
2,4-Dichlorophenol	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
2,4-Dimethylphenol	ND	U	11	2.1	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrophenol	ND	U	52	1.6	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrotoluene	ND	U	2.1	1.1	1	04/06/06	04/24/06	LWG0600535	
2,6-Dinitrotoluene	ND	U	5.2	1.9	1	04/06/06	04/24/06	LWG0600535	
2-Chloronaphthalene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
2-Chlorophenol	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
2-Methyl-4,6-dinitrophenol	ND	U	21	1.6	1	04/06/06	04/24/06	LWG0600535	*
2-Methylnaphthalene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
2-Methylphenol	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
2-Nitroaniline	ND	U	21	1.1	1	04/06/06	04/24/06	LWG0600535	*
2-Nitrophenol	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	*
3,3'-Dichlorobenzidine	ND	U	21	3.6	1	04/06/06	04/24/06	LWG0600535	
3- and 4-Methylphenol Coelution	**8.9**	**J**	11	1.1	1	04/06/06	04/24/06	LWG0600535	
3-Nitroaniline	ND	U	21	1.6	1	04/06/06	04/24/06	LWG0600535	
4-Bromophenyl Phenyl Ether	ND	U	5.2	2.1	1	04/06/06	04/24/06	LWG0600535	
4-Chloro-3-methylphenol	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
4-Chloroaniline	ND	U	5.2	1.8	1	04/06/06	04/24/06	LWG0600535	
4-Chlorophenyl Phenyl Ether	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
4-Nitroaniline	ND	U	21	2.0	1	04/06/06	04/24/06	LWG0600535	
4-Nitrophenol	ND	U	52	1.8	1	04/06/06	04/24/06	LWG0600535	
Acenaphthene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Acenaphthylene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Aniline	ND	U	5.2	3.1	1	04/06/06	04/24/06	LWG0600535	*
Anthracene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Benz(a)anthracene	ND	U	5.2	1.6	1	04/06/06	04/24/06	LWG0600535	
Benzo(a)pyrene	ND	U	5.2	1.9	1	04/06/06	04/24/06	LWG0600535	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: B131-MW3D
Lab Code: L0600578-007

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.2	1.8	1	04/06/06	04/24/06	LWG0600535	
Benzo(g,h,i)perylene	ND	U	5.2	4.2	1	04/06/06	04/24/06	LWG0600535	
Benzo(k)fluoranthene	ND	U	5.2	2.0	1	04/06/06	04/24/06	LWG0600535	
Benzoic acid	**4.4**	J	52	2.8	1	04/06/06	04/24/06	LWG0600535	*
Benzyl alcohol	ND	U	11	1.1	1	04/06/06	04/24/06	LWG0600535	
bis(2-Chloroethoxy)methane	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-chloroethyl) Ether	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Bis(2-chloroisopropyl) Ether	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-ethylhexyl) Phthalate	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Butyl Benzyl Phthalate	ND	U	5.2	1.7	1	04/06/06	04/24/06	LWG0600535	
Chrysene	ND	U	5.2	1.6	1	04/06/06	04/24/06	LWG0600535	
Di-n-butyl Phthalate	ND	U	5.2	2.1	1	04/06/06	04/24/06	LWG0600535	
Di-n-octyl Phthalate	ND	U	5.2	1.4	1	04/06/06	04/24/06	LWG0600535	
Dibenz(a,h)anthracene	ND	U	5.2	3.5	1	04/06/06	04/24/06	LWG0600535	
Dibenzofuran	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Diethyl Phthalate	ND	U	6.8	6.8	1	04/06/06	04/24/06	LWG0600535	
Dimethyl Phthalate	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Fluoranthene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Fluorene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobenzene	ND	U	2.1	1.1	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobutadiene	ND	U	11	1.7	1	04/06/06	04/24/06	LWG0600535	
Hexachlorocyclopentadiene	ND	U	11	1.1	1	04/06/06	04/24/06	LWG0600535	
Hexachloroethane	ND	U	11	4.1	1	04/06/06	04/24/06	LWG0600535	
Indeno(1,2,3-cd)pyrene	ND	U	5.2	3.9	1	04/06/06	04/24/06	LWG0600535	
Isophorone	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodi-n-propylamine	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodimethylamine	ND	U	5.2	2.9	1	04/06/06	04/24/06	LWG0600535	*
N-Nitrosodiphenylamine	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Naphthalene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Nitrobenzene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	*
Pentachlorophenol	ND	U	31	1.5	1	04/06/06	04/24/06	LWG0600535	
Phenanthrene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Phenol	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	
Pyrene	ND	U	5.2	1.1	1	04/06/06	04/24/06	LWG0600535	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: B131-MW3D
Lab Code: L0600578-007

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	11	3.0	1	04/06/06	04/24/06	LWG0600535	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	102	43-104	04/24/06	Acceptable
2-Fluorobiphenyl	92	50-101	04/24/06	Acceptable
2-Fluorophenol	88	45-101	04/24/06	Acceptable
Nitrobenzene-d5	97	58-105	04/24/06	Acceptable
Phenol-d5	85	49-107	04/24/06	Acceptable
Terphenyl-d14	83	34-120	04/24/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: Method Blank
Lab Code: LWG0600535-3

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	1.5	1	04/06/06	04/24/06	LWG0600535	
1,2-Dichlorobenzene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
1,3-Dichlorobenzene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dichlorobenzene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
1,4-Dioxane	ND	U	2.0	0.50	1	04/06/06	04/24/06	LWG0600535	
2,4,5-Trichlorophenol	ND	U	5.0	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4,6-Trichlorophenol	ND	U	5.0	2.2	1	04/06/06	04/24/06	LWG0600535	
2,4-Dichlorophenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dimethylphenol	ND	U	10	2.0	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrophenol	ND	U	50	1.5	1	04/06/06	04/24/06	LWG0600535	
2,4-Dinitrotoluene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2,6-Dinitrotoluene	ND	U	5.0	1.8	1	04/06/06	04/24/06	LWG0600535	
2-Chloronaphthalene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Chlorophenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methyl-4,6-dinitrophenol	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	*
2-Methylnaphthalene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Methylphenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
2-Nitroaniline	ND	U	20	1.0	1	04/06/06	04/24/06	LWG0600535	*
2-Nitrophenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	*
3,3'-Dichlorobenzidine	ND	U	20	3.5	1	04/06/06	04/24/06	LWG0600535	
3- and 4-Methylphenol Coelution	ND	U	10	1.0	1	04/06/06	04/24/06	LWG0600535	
3-Nitroaniline	ND	U	20	1.5	1	04/06/06	04/24/06	LWG0600535	
4-Bromophenyl Phenyl Ether	ND	U	5.0	2.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloro-3-methylphenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Chloroaniline	ND	U	5.0	1.7	1	04/06/06	04/24/06	LWG0600535	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
4-Nitroaniline	ND	U	20	1.9	1	04/06/06	04/24/06	LWG0600535	
4-Nitrophenol	ND	U	50	1.7	1	04/06/06	04/24/06	LWG0600535	
Acenaphthene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Acenaphthylene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Aniline	ND	U	5.0	3.0	1	04/06/06	04/24/06	LWG0600535	*
Anthracene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Benz(a)anthracene	ND	U	5.0	1.5	1	04/06/06	04/24/06	LWG0600535	
Benzo(a)pyrene	ND	U	5.0	1.8	1	04/06/06	04/24/06	LWG0600535	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: Method Blank
Lab Code: LWG0600535-3

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	1.7	1	04/06/06	04/24/06	LWG0600535	
Benzo(g,h,i)perylene	ND	U	5.0	4.1	1	04/06/06	04/24/06	LWG0600535	
Benzo(k)fluoranthene	ND	U	5.0	1.9	1	04/06/06	04/24/06	LWG0600535	
Benzoic acid	ND	U	50	2.7	1	04/06/06	04/24/06	LWG0600535	*
Benzyl alcohol	ND	U	10	1.0	1	04/06/06	04/24/06	LWG0600535	
bis(2-Chloroethoxy)methane	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-chloroethyl) Ether	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Bis(2-chloroisopropyl) Ether	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	*
Bis(2-ethylhexyl) Phthalate	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Butyl Benzyl Phthalate	**2.1**	J	5.0	1.6	1	04/06/06	04/24/06	LWG0600535	
Chrysene	ND	U	5.0	1.5	1	04/06/06	04/24/06	LWG0600535	
Di-n-butyl Phthalate	ND	U	5.0	2.0	1	04/06/06	04/24/06	LWG0600535	
Di-n-octyl Phthalate	ND	U	5.0	1.3	1	04/06/06	04/24/06	LWG0600535	
Dibenz(a,h)anthracene	ND	U	5.0	3.4	1	04/06/06	04/24/06	LWG0600535	
Dibenzofuran	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Diethyl Phthalate	ND	U	6.6	6.6	1	04/06/06	04/24/06	LWG0600535	
Dimethyl Phthalate	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluoranthene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Fluorene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobenzene	ND	U	2.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachlorobutadiene	ND	U	10	1.6	1	04/06/06	04/24/06	LWG0600535	
Hexachlorocyclopentadiene	ND	U	10	1.0	1	04/06/06	04/24/06	LWG0600535	
Hexachloroethane	ND	U	10	4.0	1	04/06/06	04/24/06	LWG0600535	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	3.8	1	04/06/06	04/24/06	LWG0600535	
Isophorone	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodi-n-propylamine	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
N-Nitrosodimethylamine	ND	U	5.0	2.8	1	04/06/06	04/24/06	LWG0600535	*
N-Nitrosodiphenylamine	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Naphthalene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Nitrobenzene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	*
Pentachlorophenol	ND	U	30	1.4	1	04/06/06	04/24/06	LWG0600535	
Phenanthrene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Phenol	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	
Pyrene	ND	U	5.0	1.0	1	04/06/06	04/24/06	LWG0600535	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Collected: NA
Date Received: NA

Base Neutral / Acid Semivolatile Organic Compounds

Sample Name: Method Blank
Lab Code: LWG0600535-3

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	2.9	1	04/06/06	04/24/06	LWG0600535	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	99	43-104	04/24/06	Acceptable
2-Fluorobiphenyl	93	50-101	04/24/06	Acceptable
2-Fluorophenol	87	45-101	04/24/06	Acceptable
Nitrobenzene-d5	102	58-105	04/24/06	Acceptable
Phenol-d5	87	49-107	04/24/06	Acceptable
Terphenyl-d14	90	34-120	04/24/06	Acceptable

Comments:

QC Summary

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578

Surrogate Recovery Summary
Base Neutral / Acid Semivolatile Organic Compounds

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1		Sur2	Sur3	Sur4	Sur5	Sur6
T-45 GW-37	L0600578-001	102		91	84	96	87	84
T-45 GW-11	L0600578-002	104		96	85	101	89	102
T-44 GW-11	L0600578-003	106	*	91	85	96	88	80
T-46 GW-11	L0600578-004	108	*	92	84	97	87	84
B131-MW2D	L0600578-005	104		95	85	102	84	92
B131-MW3D	L0600578-007	102		92	88	97	85	83
Method Blank	LWG0600535-3	99		93	87	102	87	90
Lab Control Sample	LWG0600535-1	97		94	85	101	89	90
Duplicate Lab Control Sample	LWG0600535-2	100		95	84	100	87	92

Surrogate Recovery Control Limits (%)

Sur1 = 2,4,6-Tribromophenol	43-104	Sur5 = Phenol-d5	49-107
Sur2 = 2-Fluorobiphenyl	50-101	Sur6 = Terphenyl-d14	34-120
Sur3 = 2-Fluorophenol	45-101		
Sur4 = Nitrobenzene-d5	58-105		

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
Date Analyzed: 04/24/2006
Time Analyzed: 11:19

Internal Standard Area and RT Summary
Base Neutral / Acid Semivolatile Organic Compounds

File ID: C:\MSDCHEM\1\DATA\S060424\S060560.D
Instrument ID: MSS
Analysis Method: 8270C

Lab Code: LWG0600549-2
Analysis Lot: LWG0600549

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	190,080	5.60	426,863	9.49	662,583	15.59
	Upper Limit ==>	380,160	6.10	853,726	9.99	1,325,166	16.09
	Lower Limit ==>	95,040	5.10	213,432	8.99	331,292	15.09
	ICAL Result ==>	192,610	5.62	413,968	9.52	611,504	15.62
Associated Analyses							
Method Blank	LWG0600535-3	221,549	5.60	487,805	9.50	742,333	15.59
Lab Control Sample	LWG0600535-1	215,038	5.60	456,403	9.49	625,165	15.59
Duplicate Lab Control Sample	LWG0600535-2	199,901	5.60	427,098	9.50	597,615	15.59
T-45 GW-37	L0600578-001	225,783	5.60	501,739	9.50	735,145	15.59
T-45 GW-11	L0600578-002	221,850	5.60	481,890	9.50	553,112	15.59
T-44 GW-11	L0600578-003	220,537	5.60	468,915	9.51	546,034	15.62
T-46 GW-11	L0600578-004	207,217	5.61	455,937	9.51	439,450	15.61
B131-MW2D	L0600578-005	202,070	5.61	442,285	9.52	438,886	15.62
B131-MW3D	L0600578-007	178,668	5.62	406,577	9.51	367,441	15.62
T-45 GW-11DL	L0600578-002	226,116	5.62	483,023	9.51	516,675	15.62

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
Date Analyzed: 04/24/2006
Time Analyzed: 11:19

Internal Standard Area and RT Summary
Base Neutral / Acid Semivolatile Organic Compounds

File ID: C:\MSDCHEM\1\DATA\S060424\S060560.D
Instrument ID: MSS
Analysis Method: 8270C

Lab Code: LWG0600549-2
Analysis Lot: LWG0600549

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	RT	Area	RT	Area	RT
	Results ==>	768,494	7.24	292,864	18.39	745,373	11.34
	Upper Limit ==>	1,536,988	7.74	585,728	18.89	1,490,746	11.84
	Lower Limit ==>	384,247	6.74	146,432	17.89	372,687	10.84
	ICAL Result ==>	741,110	7.27	253,657	18.44	696,265	11.36
Associated Analyses							
Method Blank	LWG0600535-3	868,697	7.24	441,156	18.40	813,434	11.34
Lab Control Sample	LWG0600535-1	839,053	7.25	304,431	18.39	741,552	11.34
Duplicate Lab Control Sample	LWG0600535-2	785,309	7.25	297,523	18.39	703,200	11.34
T-45 GW-37	L0600578-001	909,549	7.25	397,178	18.40	849,677	11.34
T-45 GW-11	L0600578-002	884,675	7.25	251,651	18.40	811,285	11.34
T-44 GW-11	L0600578-003	869,774	7.26	252,919	18.43	785,089	11.36
T-46 GW-11	L0600578-004	823,949	7.26	187,388	18.42	740,193	11.35
B131-MW2D	L0600578-005	798,531	7.26	244,760	18.44	734,642	11.36
B131-MW3D	L0600578-007	728,627	7.26	157,905	18.43	660,120	11.36
T-45 GW-11DL	L0600578-002	885,968	7.26	210,356	18.43	789,517	11.36

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Extracted: 04/06/2006
Date Analyzed: 04/24/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Base Neutral / Acid Semivolatile Organic Compounds

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: LWG0600535

Analyte Name	Lab Control Sample LWG0600535-1 Lab Control Spike Result	Expected	%Rec	Duplicate Lab Control Sample LWG0600535-2 Duplicate Lab Control Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	35.7	50.0	71	36.2	50.0	72	50-92	1	20
1,2-Dichlorobenzene	36.0	50.0	72	36.4	50.0	73	18-79	1	20
1,3-Dichlorobenzene	34.4	50.0	69	34.7	50.0	69	13-77	1	20
1,4-Dichlorobenzene	34.4	50.0	69	34.4	50.0	69	44-89	0	20
1,4-Dioxane	40.0	50.0	80	40.1	50.0	80	52-101	0	20
2,4,5-Trichlorophenol	44.0	50.0	88	45.3	50.0	91	71-107	3	20
2,4,6-Trichlorophenol	43.0	50.0	86	45.0	50.0	90	70-108	5	20
2,4-Dichlorophenol	43.3	50.0	87	43.8	50.0	88	70-98	1	20
2,4-Dimethylphenol	37.6	50.0	75	39.4	50.0	79	67-88	5	20
2,4-Dinitrophenol	47.4	50.0	95	49.6	50.0	99	47-101	5	20
2,4-Dinitrotoluene	46.9	50.0	94	48.7	50.0	97	62-102	4	20
2,6-Dinitrotoluene	44.6	50.0	89	46.0	50.0	92	74-104	3	20
2-Chloronaphthalene	43.4	50.0	87	44.7	50.0	89	58-98	3	20
2-Chlorophenol	44.3	50.0	89	44.7	50.0	89	62-104	1	20
2-Methyl-4,6-dinitrophenol	46.5	50.0	93	49.5	50.0	99 *	66-95	6	20
2-Methylnaphthalene	42.1	50.0	84	42.4	50.0	85	51-97	1	20
2-Methylphenol	42.2	50.0	84	42.8	50.0	86	63-86	1	20
2-Nitroaniline	53.3	50.0	107 *	55.3	50.0	111 *	65-100	4	20
2-Nitrophenol	47.6	50.0	95	48.1	50.0	96 *	56-95	1	20
3,3'-Dichlorobenzidine	26.3	50.0	53	35.6	50.0	71	53-77	30 *	20
3- and 4-Methylphenol Coelution	91.8	100	92	91.9	100	92	35-140	0	20
3-Nitroaniline	59.8	50.0	120	62.7	50.0	125	52-154	5	20
4-Bromophenyl Phenyl Ether	43.1	50.0	86	44.8	50.0	90	67-101	4	20
4-Chloro-3-methylphenol	47.0	50.0	94	47.8	50.0	96	65-104	2	20
4-Chloroaniline	56.9	50.0	114	57.5	50.0	115	78-127	1	20
4-Chlorophenyl Phenyl Ether	41.1	50.0	82	43.8	50.0	88	70-96	6	20
4-Nitroaniline	54.3	50.0	109	58.0	50.0	116	80-152	7	20
4-Nitrophenol	43.0	50.0	86	44.2	50.0	88	48-102	3	20
Acenaphthene	44.1	50.0	88	45.5	50.0	91	64-100	3	20
Acenaphthylene	45.6	50.0	91	47.7	50.0	95	72-97	5	20
Aniline	59.4	50.0	119 *	56.4	50.0	113 *	68-106	5	20
Anthracene	46.0	50.0	92	47.4	50.0	95	74-100	3	20
Benz(a)anthracene	41.9	50.0	84	44.0	50.0	88	74-101	5	20
Benzo(a)pyrene	35.9	50.0	72 *	36.8	50.0	74	73-109	3	20
Benzo(b)fluoranthene	39.5	50.0	79	40.7	50.0	81	70-110	3	20
Benzo(g,h,i)perylene	32.0	50.0	64	32.5	50.0	65	49-124	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Extracted: 04/06/2006
Date Analyzed: 04/24/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Base Neutral / Acid Semivolatile Organic Compounds

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: LWG0600535

	Lab Control Sample LWG0600535-1 Lab Control Spike			Duplicate Lab Control Sample LWG0600535-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Benzo(k)fluoranthene	38.8	50.0	78	39.6	50.0	79	73-115	2	20
Benzoic acid	45.5	50.0	91 *	46.9	50.0	94 *	10-37	3	20
Benzyl alcohol	49.7	50.0	99	49.7	50.0	99	50-108	0	20
bis(2-Chloroethoxy)methane	49.9	50.0	100 *	51.5	50.0	103 *	67-91	3	20
Bis(2-chloroethyl) Ether	43.3	50.0	87	43.5	50.0	87	61-94	1	20
Bis(2-chloroisopropyl) Ether	111E	50.0	222 *	112E	50.0	224 *	14-110	1	20
Bis(2-ethylhexyl) Phthalate	57.7	50.0	115	44.0	50.0	88	59-118	27 *	20
Butyl Benzyl Phthalate	41.6	50.0	83	43.0	50.0	86	72-109	3	20
Chrysene	42.0	50.0	84	44.0	50.0	88	72-99	5	20
Di-n-butyl Phthalate	48.6	50.0	97	50.2	50.0	100	71-113	3	20
Di-n-octyl Phthalate	35.8	50.0	72	37.3	50.0	75	59-128	4	20
Dibenz(a,h)anthracene	36.9	50.0	74	37.6	50.0	75	46-124	2	20
Dibenzofuran	43.7	50.0	87	45.8	50.0	92	70-94	5	20
Diethyl Phthalate	45.5	50.0	91	48.3	50.0	97	64-113	6	20
Dimethyl Phthalate	45.5	50.0	91	47.2	50.0	94	43-124	4	20
Fluoranthene	42.1	50.0	84	43.9	50.0	88	70-108	4	20
Fluorene	44.5	50.0	89	47.3	50.0	95	72-97	6	20
Hexachlorobenzene	44.8	50.0	90	47.4	50.0	95	69-100	6	20
Hexachlorobutadiene	31.3	50.0	63	31.3	50.0	63	10-98	0	20
Hexachlorocyclopentadiene	22.8	50.0	46	23.3	50.0	47	18-84	2	20
Hexachloroethane	34.2	50.0	68	34.0	50.0	68	10-82	1	20
Indeno(1,2,3-cd)pyrene	33.1	50.0	66	33.7	50.0	67	53-123	2	20
Isophorone	47.9	50.0	96	49.0	50.0	98	64-107	2	20
N-Nitrosodi-n-propylamine	46.2	50.0	92	46.9	50.0	94	58-110	2	20
N-Nitrosodimethylamine	54.5	50.0	109 *	55.7	50.0	111 *	25-79	2	20
N-Nitrosodiphenylamine	41.1	50.0	82	43.3	50.0	87	60-125	5	20
Naphthalene	41.8	50.0	84	42.2	50.0	84	42-91	1	20
Nitrobenzene	46.2	50.0	92	46.8	50.0	94 *	65-92	1	20
Pentachlorophenol	42.5	50.0	85	44.7	50.0	89	48-107	5	20
Phenanthrene	45.0	50.0	90	46.6	50.0	93	73-98	3	20
Phenol	43.7	50.0	87	43.8	50.0	88	59-109	0	20
Pyrene	43.1	50.0	86	44.6	50.0	89	60-113	4	20
Pyridine	38.7	50.0	77 *	37.6	50.0	75 *	44-73	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	L0600578
Project:	TDY/SC0307	**Date Extracted:**	04/06/2006
Sample Matrix:	Water	**Date Analyzed:**	04/24/2006
		Time Analyzed:	13:04

Method Blank Summary
Base Neutral / Acid Semivolatile Organic Compounds

Sample Name:	Method Blank	**File ID:**	Q:\TARGET\CHEM\MSS.I\S060424\S060563.
Lab Code:	LWG0600535-3	**Instrument ID:**	MSS
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C	**Extraction Lot:**	LWG0600535

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	LWG0600535-1	Q:\TARGET\CHEM\MSS.I\S060424\S060564.D	04/24/06	13:38
Duplicate Lab Control Sample	LWG0600535-2	Q:\TARGET\CHEM\MSS.I\S060424\S060565.D	04/24/06	14:12
T-45 GW-37	L0600578-001	Q:\TARGET\CHEM\MSS.I\S060424\S060566.D	04/24/06	14:45
T-45 GW-11	L0600578-002	Q:\TARGET\CHEM\MSS.I\S060424\S060567.D	04/24/06	15:19
T-44 GW-11	L0600578-003	Q:\TARGET\CHEM\MSS.I\S060424\S060568.D	04/24/06	17:28
T-46 GW-11	L0600578-004	Q:\TARGET\CHEM\MSS.I\S060424\S060569.D	04/24/06	18:02
B131-MW2D	L0600578-005	Q:\TARGET\CHEM\MSS.I\S060424\S060570.D	04/24/06	18:36
B131-MW3D	L0600578-007	Q:\TARGET\CHEM\MSS.I\S060424\S060571.D	04/24/06	19:09
T-45 GW-11	L0600578-002	Q:\TARGET\CHEM\MSS.I\S060424\S060572.D	04/24/06	19:42

Client: GeoSyntec Consultants **Service Request:** L0600578
Project: TDY/SC0307
Sample Matrix: Water

Lab Control Sample/Duplicate Lab Control Sample Summary
Base Neutral / Acid Semivolatile Organic Compounds

Sample Name:	Lab Control Sample	**Sample Name:**	Duplicate Lab Control Sample
Lab Code:	LWG0600535-1	**Lab Code:**	LWG0600535-2
File ID:	Q:\TARGET\CHEM\MSS.I\S060424\S060564.D	**File ID:**	Q:\TARGET\CHEM\MSS.I\S060424\S060565.D
Instrument ID:	MSS	**Instrument ID:**	MSS
Date Extracted:	04/06/2006	**Date Extracted:**	04/06/2006
Date Analyzed:	04/24/2006	**Date Analyzed:**	04/24/2006
Time Analyzed:	13:38	**Time Analyzed:**	14:12

Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C	**Extraction Lot:**	LWG0600535

These Lab Control Samples apply to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	LWG0600535-3	Q:\TARGET\CHEM\MSS.I\S060424\S060563.D	04/24/06	13:04
T-45 GW-37	L0600578-001	Q:\TARGET\CHEM\MSS.I\S060424\S060566.D	04/24/06	14:45
T-45 GW-11	L0600578-002	Q:\TARGET\CHEM\MSS.I\S060424\S060567.D	04/24/06	15:19
T-44 GW-11	L0600578-003	Q:\TARGET\CHEM\MSS.I\S060424\S060568.D	04/24/06	17:28
T-46 GW-11	L0600578-004	Q:\TARGET\CHEM\MSS.I\S060424\S060569.D	04/24/06	18:02
B131-MW2D	L0600578-005	Q:\TARGET\CHEM\MSS.I\S060424\S060570.D	04/24/06	18:36
B131-MW3D	L0600578-007	Q:\TARGET\CHEM\MSS.I\S060424\S060571.D	04/24/06	19:09
T-45 GW-11	L0600578-002	Q:\TARGET\CHEM\MSS.I\S060424\S060572.D	04/24/06	19:42

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
ICAL Date: 04/22/2006

Initial Calibration Summary
Base Neutral / Acid Semivolatile Organic Compounds

ICAL ID: CAL1154
Instrument ID: MSS

Column: MS

Level ID	File ID	Level ID	File ID
A	C:\MSDCHEM\1\DATA\S060422\S060540.D	E	C:\MSDCHEM\1\DATA\S060422\S060544.D
B	C:\MSDCHEM\1\DATA\S060422\S060541.D	F	C:\MSDCHEM\1\DATA\S060422\S060545.D
C	C:\MSDCHEM\1\DATA\S060422\S060542.D	G	C:\MSDCHEM\1\DATA\S060422\S060546.D
D	C:\MSDCHEM\1\DATA\S060422\S060543.D	H	C:\MSDCHEM\1\DATA\S060422\S060547.D

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,2,4-Trichlorobenzene	A	1.0	0.285	B	2.0	0.334	C	4.0	0.317	D	10	0.324	E	25	0.329
	F	50	0.339	G	70	0.344	H	100	0.338						
1,2-Dichlorobenzene	A	1.0	1.39	B	2.0	1.51	C	4.0	1.49	D	10	1.49	E	25	1.53
	F	50	1.59	G	70	1.61	H	100	1.54						
1,3-Dichlorobenzene	A	1.0	1.41	B	2.0	1.61	C	4.0	1.51	D	10	1.53	E	25	1.58
	F	50	1.65	G	70	1.66	H	100	1.63						
‡ 1,4-Dichlorobenzene	A	1.0	1.52	B	2.0	1.61	C	4.0	1.58	D	10	1.56	E	25	1.60
	F	50	1.67	G	70	1.68	H	100	1.64						
1,4-Dioxane	A	1.0	0.432	B	2.0	0.462	C	4.0	0.581	D	10	0.542	E	25	0.562
	F	50	0.606	G	70	0.601	H	100	0.561						
2,4,5-Trichlorophenol				B	2.0	0.338	C	4.0	0.363	D	10	0.384	E	25	0.399
	F	50	0.427	G	70	0.437	H	100	0.422						
‡ 2,4,6-Trichlorophenol				B	2.0	0.320	C	4.0	0.318	D	10	0.355	E	25	0.375
	F	50	0.386	G	70	0.402	H	100	0.387						
‡ 2,4-Dichlorophenol				B	2.0	0.251	C	4.0	0.250	D	10	0.272	E	25	0.294
	F	50	0.306	G	70	0.306	H	100	0.303						
2,4-Dimethylphenol	A	1.0	0.239	B	2.0	0.270	C	4.0	0.274	D	10	0.285	E	25	0.297
	F	50	0.309	G	70	0.308	H	100	0.305						
† 2,4-Dinitrophenol										D	20	0.143	E	50	0.176
	F	100	0.193	G	140	0.188	H	200	0.182						
2,4-Dinitrotoluene				B	2.0	0.290	C	4.0	0.313	D	10	0.336	E	25	0.363
	F	50	0.375	G	70	0.380	H	100	0.358						
2,6-Dinitrotoluene				B	2.0	0.227	C	4.0	0.251	D	10	0.276	E	25	0.300
	F	50	0.315	G	70	0.327	H	100	0.315						
2-Chloronaphthalene	A	1.0	0.931	B	2.0	1.06	C	4.0	1.02	D	10	1.05	E	25	1.10
	F	50	1.12	G	70	1.15	H	100	1.12						
2-Chlorophenol	A	1.0	1.11	B	2.0	1.26	C	4.0	1.27	D	10	1.29	E	25	1.35
	F	50	1.42	G	70	1.44	H	100	1.38						

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
ICAL Date: 04/22/2006

Initial Calibration Summary
Base Neutral / Acid Semivolatile Organic Compounds

ICAL ID: CAL1154
Instrument ID: MSS

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Methyl-4,6-dinitrophenol										D	10	0.117	E	25	0.138
	F	50	0.149	G	70	0.143	H	100	0.142						
2-Methylnaphthalene	A	1.0	0.555	B	2.0	0.633	C	4.0	0.638	D	10	0.647	E	25	0.657
	F	50	0.689	G	70	0.697	H	100	0.689						
2-Methylphenol				B	2.0	1.14	C	4.0	1.15	D	10	1.20	E	25	1.25
	F	50	1.31	G	70	1.29	H	100	1.26						
2-Nitroaniline							C	4.0	0.248	D	10	0.290	E	25	0.320
	F	50	0.340	G	70	0.347	H	100	0.335						
‡ 2-Nitrophenol				B	2.0	0.144	C	4.0	0.154	D	10	0.183	E	25	0.181
	F	50	0.188	G	70	0.192	H	100	0.187						
3,3'-Dichlorobenzidine				B	2.0	0.226	C	4.0	0.243	D	10	0.137	E	25	0.224
	F	50	0.249	G	70	0.242									
3- and 4-Methylphenol Coelution				B	4.0	0.679	C	8.0	0.687	D	20	0.748	E	50	0.799
	F	100	0.829	G	140	0.830	H	200	0.806						
3-Nitroaniline				B	2.0	0.182	C	4.0	0.217	D	10	0.197	E	25	0.217
	F	50	0.235	G	70	0.241	H	100	0.246						
4-Bromophenyl Phenyl Ether	A	1.0	0.194	B	2.0	0.218	C	4.0	0.207	D	10	0.215	E	25	0.229
	F	50	0.237	G	70	0.238	H	100	0.233						
4-Chloro-3-methylphenol				B	2.0	0.233	C	4.0	0.239	D	10	0.266	E	25	0.286
	F	50	0.292	G	70	0.302	H	100	0.294						
4-Chloroaniline				B	2.0	0.289	C	4.0	0.319	D	10	0.288	E	25	0.264
	F	50	0.290	G	70	0.303	H	100	0.349						
4-Chlorophenyl Phenyl Ether	A	1.0	0.517	B	2.0	0.608	C	4.0	0.575	D	10	0.596	E	25	0.617
	F	50	0.637	G	70	0.649	H	100	0.620						
4-Nitroaniline							C	4.0	0.184	D	10	0.196	E	25	0.219
	F	50	0.218	G	70	0.230	H	100	0.226						
† 4-Nitrophenol										D	20	0.123	E	50	0.150
	F	100	0.163	G	140	0.167	H	200	0.164						
‡ Acenaphthene	A	1.0	0.927	B	2.0	0.990	C	4.0	0.941	D	10	0.960	E	25	0.984
	F	50	1.02	G	70	1.03	H	100	1.01						
Acenaphthylene	A	1.0	1.38	B	2.0	1.61	C	4.0	1.60	D	10	1.66	E	25	1.70
	F	50	1.74	G	70	1.79	H	100	1.75						
Aniline				B	2.0	1.33	C	4.0	1.44	D	10	1.50	E	25	1.54
	F	50	1.60	G	70	1.61	H	100	1.57						

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† **SPCC Compound**

‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
ICAL Date: 04/22/2006

Initial Calibration Summary
Base Neutral / Acid Semivolatile Organic Compounds

ICAL ID: CAL1154
Instrument ID: MSS

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Anthracene	A	1.0	0.814	B	2.0	0.919	C	4.0	0.924	D	10	0.955	E	25	0.963
	F	50	1.01	G	70	1.01	H	100	0.988						
Benz(a)anthracene	A	1.0	1.00	B	2.0	1.03	C	4.0	1.03	D	10	1.06	E	25	1.11
	F	50	1.17	G	70	1.18	H	100	1.18						
‡ Benzo(a)pyrene				B	2.0	1.19	C	4.0	1.21	D	10	1.32	E	25	1.52
	F	50	1.48	G	70	1.51	H	100	1.47						
Benzo(b)fluoranthene				B	2.0	1.51	C	4.0	1.56	D	10	1.58	E	25	1.90
	F	50	1.90	G	70	1.88	H	100	1.75						
Benzo(g,h,i)perylene	A	1.0	0.914	B	2.0	0.933	C	4.0	0.836	D	10	0.817	E	25	0.878
	F	50	0.944	G	70	0.981	H	100	0.938						
Benzo(k)fluoranthene	A	1.0	1.47	B	2.0	1.54	C	4.0	1.48	D	10	1.60	E	25	1.84
	F	50	1.77	G	70	1.87	H	100	1.68						
Benzoic acid							C	4.0	0.0609	D	10	0.134	E	25	0.203
	F	50	0.223	G	70	0.225	H	100	0.219						
Benzyl alcohol				B	2.0	0.610	C	4.0	0.645	D	10	0.747	E	25	0.805
	F	50	0.817	G	70	0.839	H	100	0.830						
bis(2-Chloroethoxy)methane	A	1.0	0.290	B	2.0	0.341	C	4.0	0.352	D	10	0.363	E	25	0.379
	F	50	0.390	G	70	0.391	H	100	0.382						
Bis(2-chloroethyl) Ether	A	1.0	1.23	B	2.0	1.35	C	4.0	1.27	D	10	1.29	E	25	1.33
	F	50	1.39	G	70	1.42	H	100	1.36						
Bis(2-chloroisopropyl) Ether				B	2.0	0.305	C	4.0	0.293	D	10	0.289	E	25	0.301
	F	50	0.333	G	70	0.340	H	100	0.323						
Bis(2-ethylhexyl) Phthalate							C	4.0	0.585	D	10	0.711	E	25	0.759
	F	50	0.821	G	70	0.893	H	100	0.858						
Butyl Benzyl Phthalate							C	4.0	0.431	D	10	0.511	E	25	0.572
	F	50	0.627	G	70	0.690	H	100	0.634						
Chrysene	A	1.0	0.936	B	2.0	1.04	C	4.0	1.01	D	10	1.01	E	25	1.03
	F	50	1.07	G	70	1.07	H	100	1.06						
Di-n-butyl Phthalate	A	1.0	0.859	B	2.0	1.01	C	4.0	1.06	D	10	1.13	E	25	1.19
	F	50	1.26	G	70	1.24	H	100	1.24						
‡ Di-n-octyl Phthalate							C	4.0	1.42	D	10	1.87	E	25	2.50
	F	50	2.81	G	70	3.31	H	100	2.71						
Dibenz(a,h)anthracene	A	1.0	0.810	B	2.0	0.795	C	4.0	0.747	D	10	0.786	E	25	0.891
	F	50	0.915	G	70	0.951	H	100	0.979						

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Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
ICAL Date: 04/22/2006

Initial Calibration Summary
Base Neutral / Acid Semivolatile Organic Compounds

ICAL ID: CAL1154
Instrument ID: MSS

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dibenzofuran	A	1.0	1.37	B	2.0	1.50	C	4.0	1.46	D	10	1.47	E	25	1.53
	F	50	1.57	G	70	1.57	H	100	1.52						
Diethyl Phthalate	A	1.0	0.956	B	2.0	1.09	C	4.0	1.12	D	10	1.17	E	25	1.20
	F	50	1.24	G	70	1.27	H	100	1.22						
Dimethyl Phthalate	A	1.0	0.963	B	2.0	1.12	C	4.0	1.13	D	10	1.17	E	25	1.20
	F	50	1.25	G	70	1.28	H	100	1.22						
‡ Fluoranthene	A	1.0	0.926	B	2.0	1.04	C	4.0	1.07	D	10	1.09	E	25	1.14
	F	50	1.18	G	70	1.13	H	100	1.16						
Fluorene	A	1.0	1.02	B	2.0	1.14	C	4.0	1.15	D	10	1.18	E	25	1.21
	F	50	1.23	G	70	1.25	H	100	1.21						
Hexachlorobenzene	A	1.0	0.216	B	2.0	0.228	C	4.0	0.235	D	10	0.238	E	25	0.245
	F	50	0.253	G	70	0.253	H	100	0.250						
‡ Hexachlorobutadiene	A	1.0	0.183	B	2.0	0.200	C	4.0	0.194	D	10	0.193	E	25	0.200
	F	50	0.206	G	70	0.208	H	100	0.204						
† Hexachlorocyclopentadiene				B	2.0	0.317	C	4.0	0.338	D	10	0.351	E	25	0.379
	F	50	0.383	G	70	0.387	H	100	0.405						
Hexachloroethane	A	1.0	0.593	B	2.0	0.614	C	4.0	0.621	D	10	0.620	E	25	0.644
	F	50	0.686	G	70	0.684	H	100	0.665						
Indeno(1,2,3-cd)pyrene	A	1.0	1.07	B	2.0	1.09	C	4.0	0.996	D	10	1.04	E	25	1.15
	F	50	1.21	G	70	1.25	H	100	1.26						
Isophorone	A	1.0	0.541	B	2.0	0.631	C	4.0	0.630	D	10	0.682	E	25	0.717
	F	50	0.737	G	70	0.746	H	100	0.729						
† N-Nitrosodi-n-propylamine				B	2.0	0.967	C	4.0	0.989	D	10	1.03	E	25	1.10
	F	50	1.15	G	70	1.15	H	100	1.13						
N-Nitrosodimethylamine				B	2.0	0.442	C	4.0	0.472	D	10	0.501	E	25	0.537
	F	50	0.599	G	70	0.607	H	100	0.615						
‡ N-Nitrosodiphenylamine	A	1.0	0.405	B	2.0	0.479	C	4.0	0.476	D	10	0.466	E	25	0.494
	F	50	0.518	G	70	0.514	H	100	0.513						
Naphthalene	A	1.0	0.884	B	2.0	0.984	C	4.0	0.963	D	10	0.959	E	25	0.990
	F	50	1.02	G	70	1.02	H	100	1.01						
Nitrobenzene	A	1.0	0.328	B	2.0	0.384	C	4.0	0.380	D	10	0.406	E	25	0.422
	F	50	0.432	G	70	0.430	H	100	0.422						
‡ Pentachlorophenol										D	20	0.141	E	50	0.161
	F	100	0.178	G	140	0.176	H	200	0.175						

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Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
ICAL Date: 04/22/2006

Initial Calibration Summary
Base Neutral / Acid Semivolatile Organic Compounds

ICAL ID: CAL1154
Instrument ID: MSS

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Phenanthrene	A	1.0	0.897	B	2.0	0.992	C	4.0	0.967	D	10	0.954	E	25	0.981
	F	50	1.01	G	70	1.02	H	100	0.992						
‡ Phenol				B	2.0	1.48	C	4.0	1.55	D	10	1.60	E	25	1.69
	F	50	1.77	G	70	1.91	H	100	1.86						
Pyrene							C	4.0	1.14	D	10	1.19	E	25	1.28
	F	50	1.42	G	70	1.64	H	100	1.33						
Pyridine				B	2.0	1.35	C	4.0	1.37	D	10	1.38	E	25	1.45
	F	50	1.56	G	70	1.55	H	100	1.48						
2,4,6-Tribromophenol							C	4.0	0.103	D	10	0.113	E	25	0.126
	F	50	0.132	G	70	0.133	H	100	0.129						
2-Fluorobiphenyl	A	1.0	1.08	B	2.0	1.22	C	4.0	1.18	D	10	1.17	E	25	1.26
	F	50	1.25	G	70	1.28	H	100	1.25						
2-Fluorophenol				B	2.0	1.05	C	4.0	1.08	D	10	1.14	E	25	1.24
	F	50	1.30	G	70	1.30	H	100	1.27						
Nitrobenzene-d5	A	1.0	0.282	B	2.0	0.342	C	4.0	0.336	D	10	0.359	E	25	0.379
	F	50	0.386	G	70	0.393	H	100	0.388						
Phenol-d5				B	2.0	1.42	C	4.0	1.39	D	10	1.45	E	25	1.57
	F	50	1.65	G	70	1.67	H	100	1.62						
Terphenyl-d14				B	2.0	0.814	C	4.0	0.806	D	10	0.832	E	25	0.896
	F	50	0.990	G	70	1.13	H	100	0.928						

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants **Service Request:** L0600578
Project: TDY/SC0307 **ICAL Date:** 04/22/2006

Initial Calibration Summary
Base Neutral / Acid Semivolatile Organic Compounds

ICAL ID: CAL1154 **Column:** MS
Instrument ID: MSS

Analyte Name	Compound Type	Calibration Evaluation: Fit Type	Eval.	Eval. Result	Q	Control Criteria	RRF Evaluation: Average RRF	Q	Minimum RRF
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	5.8		≤ 15	0.326		
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	4.6		≤ 15	1.52		
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	5.4		≤ 15	1.57		
‡ 1,4-Dichlorobenzene	MS	AverageRF	% RSD	3.5		≤ 30	1.61		
1,4-Dioxane	MS	AverageRF	% RSD	11.7		≤ 15	0.543		
2,4,5-Trichlorophenol	TRG	AverageRF	% RSD	9.2		≤ 15	0.396		
‡ 2,4,6-Trichlorophenol	TRG	AverageRF	% RSD	9.2		≤ 30	0.363		
‡ 2,4-Dichlorophenol	TRG	AverageRF	% RSD	8.9		≤ 30	0.283		
2,4-Dimethylphenol	TRG	AverageRF	% RSD	8.5		≤ 15	0.286		
† 2,4-Dinitrophenol	TRG	AverageRF	% RSD	11.3		≤ 15	0.177		0.05
2,4-Dinitrotoluene	MS	AverageRF	% RSD	9.8		≤ 15	0.345		
2,6-Dinitrotoluene	TRG	AverageRF	% RSD	13.0		≤ 15	0.287		
2-Chloronaphthalene	TRG	AverageRF	% RSD	6.6		≤ 15	1.07		
2-Chlorophenol	MS	AverageRF	% RSD	8.0		≤ 15	1.31		
2-Methyl-4,6-dinitrophenol	TRG	AverageRF	% RSD	9.0		≤ 15	0.138		
2-Methylnaphthalene	TRG	AverageRF	% RSD	7.1		≤ 15	0.651		
2-Methylphenol	TRG	AverageRF	% RSD	5.3		≤ 15	1.23		
2-Nitroaniline	TRG	AverageRF	% RSD	12.1		≤ 15	0.313		
‡ 2-Nitrophenol	TRG	AverageRF	% RSD	10.7		≤ 30	0.176		
3,3'-Dichlorobenzidine	TRG	Linear	R2	0.996		≥ 0.99	0.220		
3- and 4-Methylphenol Coelution	TRG	AverageRF	% RSD	8.4		≤ 15	0.768		
3-Nitroaniline	TRG	AverageRF	% RSD	10.7		≤ 15	0.219		
4-Bromophenyl Phenyl Ether	TRG	AverageRF	% RSD	7.0		≤ 15	0.221		
4-Chloro-3-methylphenol	MS	AverageRF	% RSD	10.1		≤ 15	0.273		
4-Chloroaniline	TRG	AverageRF	% RSD	9.1		≤ 15	0.300		
4-Chlorophenyl Phenyl Ether	TRG	AverageRF	% RSD	6.9		≤ 15	0.602		
4-Nitroaniline	TRG	AverageRF	% RSD	8.4		≤ 15	0.212		
† 4-Nitrophenol	MS	AverageRF	% RSD	11.8		≤ 15	0.153		0.05
‡ Acenaphthene	MS	AverageRF	% RSD	3.7		≤ 30	0.982		
Acenaphthylene	TRG	AverageRF	% RSD	7.7		≤ 15	1.65		
Aniline	TRG	AverageRF	% RSD	6.7		≤ 15	1.51		
Anthracene	TRG	AverageRF	% RSD	6.7		≤ 15	0.947		
Benz(a)anthracene	TRG	AverageRF	% RSD	6.9		≤ 15	1.10		
‡ Benzo(a)pyrene	TRG	AverageRF	% RSD	10.4		≤ 30	1.39		
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	9.9		≤ 15	1.73		
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	6.2		≤ 15	0.905		
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	9.6		≤ 15	1.66		
Benzoic acid	TRG	Linear	R2	0.999		≥ 0.99	0.178		
Benzyl alcohol	TRG	AverageRF	% RSD	12.3		≤ 15	0.756		
bis(2-Chloroethoxy)methane	TRG	AverageRF	% RSD	9.4		≤ 15	0.361		
Bis(2-chloroethyl) Ether	TRG	AverageRF	% RSD	4.7		≤ 15	1.33		
Bis(2-chloroisopropyl) Ether	TRG	AverageRF	% RSD	6.4		≤ 15	0.312		

Results flagged with an asterisk (*) indicate values outside control criteria.

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Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
ICAL Date: 04/22/2006

Initial Calibration Summary
Base Neutral / Acid Semivolatile Organic Compounds

ICAL ID: CAL1154
Instrument ID: MSS

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Bis(2-ethylhexyl) Phthalate	TRG	AverageRF	% RSD	14.6		≤ 15	0.771		
Butyl Benzyl Phthalate	TRG	Linear	R2	0.995		≥ 0.99	0.577		
Chrysene	TRG	AverageRF	% RSD	4.4		≤ 15	1.03		
Di-n-butyl Phthalate	TRG	AverageRF	% RSD	12.4		≤ 15	1.12		
‡ Di-n-octyl Phthalate	TRG	AverageRF	% RSD	28.0		≤ 30	2.44		
Dibenz(a,h)anthracene	TRG	AverageRF	% RSD	10.0		≤ 15	0.859		
Dibenzofuran	TRG	AverageRF	% RSD	4.3		≤ 15	1.50		
Diethyl Phthalate	TRG	AverageRF	% RSD	8.7		≤ 15	1.16		
Dimethyl Phthalate	TRG	AverageRF	% RSD	8.5		≤ 15	1.17		
‡ Fluoranthene	TRG	AverageRF	% RSD	7.5		≤ 30	1.09		
Fluorene	TRG	AverageRF	% RSD	6.4		≤ 15	1.17		
Hexachlorobenzene	TRG	AverageRF	% RSD	5.5		≤ 15	0.240		
‡ Hexachlorobutadiene	TRG	AverageRF	% RSD	4.2		≤ 30	0.198		
† Hexachlorocyclopentadiene	TRG	AverageRF	% RSD	8.5		≤ 15	0.366		0.05
Hexachloroethane	TRG	AverageRF	% RSD	5.4		≤ 15	0.641		
Indeno(1,2,3-cd)pyrene	TRG	AverageRF	% RSD	8.7		≤ 15	1.13		
Isophorone	TRG	AverageRF	% RSD	10.6		≤ 15	0.677		
† N-Nitrosodi-n-propylamine	MS	AverageRF	% RSD	7.1		≤ 15	1.07		0.05
N-Nitrosodimethylamine	TRG	AverageRF	% RSD	13.0		≤ 15	0.539		
‡ N-Nitrosodiphenylamine	TRG	AverageRF	% RSD	7.7		≤ 15	0.483		
Naphthalene	TRG	AverageRF	% RSD	4.6		≤ 15	0.979		
Nitrobenzene	TRG	AverageRF	% RSD	8.8		≤ 15	0.400		
‡ Pentachlorophenol	MS	AverageRF	% RSD	9.5		≤ 30	0.166		
Phenanthrene	TRG	AverageRF	% RSD	4.0		≤ 15	0.977		
‡ Phenol	MS	AverageRF	% RSD	9.4		≤ 30	1.69		
Pyrene	MS	AverageRF	% RSD	13.6		≤ 15	1.33		
Pyridine	TRG	AverageRF	% RSD	5.8		≤ 15	1.45		
2,4,6-Tribromophenol	SURR	AverageRF	% RSD	9.9		≤ 15	0.123		
2-Fluorobiphenyl	SURR	AverageRF	% RSD	5.3		≤ 15	1.21		
2-Fluorophenol	SURR	AverageRF	% RSD	8.8		≤ 15	1.20		
Nitrobenzene-d5	SURR	AverageRF	% RSD	10.5		≤ 15	0.358		
Phenol-d5	SURR	AverageRF	% RSD	7.6		≤ 15	1.54		
Terphenyl-d14	SURR	AverageRF	% RSD	12.7		≤ 15	0.914		

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† **SPCC Compound** ‡ **CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
ICAL Date: 04/22/2006
Date Analyzed: 04/22/2006

Second Source Calibration Verification
Base Neutral / Acid Semivolatile Organic Compounds

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL ID: CAL1154
Units: mg/L

File ID: C:\MSDCHEM\1\DATA\S060422\S060548.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	50	51	0.326	0.332	2	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	50	49	1.52	1.49	-2	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	50	51	1.57	1.59	1	NA	± 30 %	AverageRF
‡ 1,4-Dichlorobenzene	50	51	1.61	1.63	1	NA	± 30 %	AverageRF
1,4-Dioxane	50	53	0.543	0.572	5	NA	± 30 %	AverageRF
2,4,5-Trichlorophenol	50	52	0.396	0.408	3	NA	± 30 %	AverageRF
‡ 2,4,6-Trichlorophenol	50	50	0.363	0.366	1	NA	± 30 %	AverageRF
‡ 2,4-Dichlorophenol	50	51	0.283	0.286	1	NA	± 30 %	AverageRF
2,4-Dimethylphenol	50	49	0.286	0.281	-2	NA	± 30 %	AverageRF
† 2,4-Dinitrophenol	50	52	0.177	0.183	3	NA	± 30 %	AverageRF
2,4-Dinitrotoluene	50	55	0.345	0.376	9	NA	± 30 %	AverageRF
2,6-Dinitrotoluene	50	54	0.287	0.312	9	NA	± 30 %	AverageRF
2-Chloronaphthalene	50	52	1.07	1.12	5	NA	± 30 %	AverageRF
2-Chlorophenol	50	51	1.31	1.35	3	NA	± 30 %	AverageRF
2-Methyl-4,6-dinitrophenol	50	51	0.138	0.140	1	NA	± 30 %	AverageRF
2-Methylnaphthalene	50	54	0.651	0.701	8	NA	± 30 %	AverageRF
2-Methylphenol	50	47	1.23	1.17	-5	NA	± 30 %	AverageRF
2-Nitroaniline	50	54	0.313	0.341	9	NA	± 30 %	AverageRF
‡ 2-Nitrophenol	50	54	0.176	0.191	9	NA	± 30 %	AverageRF
3,3'-Dichlorobenzidine	50	63	0.220	0.306	NA	26	± 30 %	Linear
3- and 4-Methylphenol Coelution	100	100	0.768	0.774	1	NA	± 30 %	AverageRF
3-Nitroaniline	50	61	0.219	0.266	22	NA	± 30 %	AverageRF
4-Bromophenyl Phenyl Ether	50	52	0.221	0.231	4	NA	± 30 %	AverageRF
4-Chloro-3-methylphenol	50	52	0.273	0.283	4	NA	± 30 %	AverageRF
4-Chloroaniline	50	57	0.300	0.345	15	NA	± 30 %	AverageRF
4-Chlorophenyl Phenyl Ether	50	53	0.602	0.643	7	NA	± 30 %	AverageRF
4-Nitroaniline	50	56	0.212	0.239	13	NA	± 30 %	AverageRF
† 4-Nitrophenol	50	53	0.153	0.164	7	NA	± 30 %	AverageRF
‡ Acenaphthene	50	52	0.982	1.03	5	NA	± 30 %	AverageRF
Acenaphthylene	50	47	1.65	1.57	-5	NA	± 30 %	AverageRF
Aniline	50	42	1.51	1.28	-16	NA	± 30 %	AverageRF
Anthracene	50	53	0.947	1.00	6	NA	± 30 %	AverageRF
Benz(a)anthracene	50	54	1.10	1.19	8	NA	± 30 %	AverageRF
‡ Benzo(a)pyrene	50	45	1.39	1.23	-11	NA	± 30 %	AverageRF
Benzo(b)fluoranthene	50	47	1.73	1.62	-6	NA	± 30 %	AverageRF
Benzo(g,h,i)perylene	50	43	0.905	0.781	-14	NA	± 30 %	AverageRF
Benzo(k)fluoranthene	50	45	1.66	1.49	-10	NA	± 30 %	AverageRF
Benzoic acid	50	48	0.178	0.206	NA	-4	± 30 %	Linear
Benzyl alcohol	50	61	0.756	0.915	21	NA	± 30 %	AverageRF
bis(2-Chloroethoxy)methane	50	59	0.361	0.426	18	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
ICAL Date: 04/22/2006
Date Analyzed: 04/22/2006

Second Source Calibration Verification
Base Neutral / Acid Semivolatile Organic Compounds

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL ID: CAL1154
Units: mg/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D		%Drift	Criteria	Curve Fit
Bis(2-chloroethyl) Ether	50	52	1.33	1.37	3		NA	± 30 %	AverageRF
Bis(2-chloroisopropyl) Ether	50	67	0.312	0.421	35	*	NA	± 30 %	AverageRF
Bis(2-ethylhexyl) Phthalate	50	60	0.771	0.929	21		NA	± 30 %	AverageRF
Butyl Benzyl Phthalate	50	52	0.577	0.667	NA		4	± 30 %	Linear
Chrysene	50	51	1.03	1.05	2		NA	± 30 %	AverageRF
Di-n-butyl Phthalate	50	56	1.12	1.26	13		NA	± 30 %	AverageRF
‡ Di-n-octyl Phthalate	50	55	2.44	2.68	10		NA	± 30 %	AverageRF
Dibenz(a,h)anthracene	50	48	0.859	0.822	-4		NA	± 30 %	AverageRF
Dibenzofuran	50	51	1.50	1.54	2		NA	± 30 %	AverageRF
Diethyl Phthalate	50	54	1.16	1.25	8		NA	± 30 %	AverageRF
Dimethyl Phthalate	50	54	1.17	1.25	7		NA	± 30 %	AverageRF
‡ Fluoranthene	50	53	1.09	1.16	6		NA	± 30 %	AverageRF
Fluorene	50	54	1.17	1.27	8		NA	± 30 %	AverageRF
Hexachlorobenzene	50	50	0.240	0.240	0		NA	± 30 %	AverageRF
‡ Hexachlorobutadiene	50	52	0.198	0.205	3		NA	± 30 %	AverageRF
† Hexachlorocyclopentadiene	50	38	0.366	0.275	-25		NA	± 30 %	AverageRF
Hexachloroethane	50	52	0.641	0.668	4		NA	± 30 %	AverageRF
Indeno(1,2,3-cd)pyrene	50	46	1.13	1.03	-9		NA	± 30 %	AverageRF
Isophorone	50	45	0.677	0.607	-10		NA	± 30 %	AverageRF
† N-Nitrosodi-n-propylamine	50	49	1.07	1.04	-3		NA	± 30 %	AverageRF
N-Nitrosodimethylamine	50	54	0.539	0.578	7		NA	± 30 %	AverageRF
‡ N-Nitrosodiphenylamine	50	47	0.483	0.454	-6		NA	± 30 %	AverageRF
Naphthalene	50	52	0.979	1.02	4		NA	± 30 %	AverageRF
Nitrobenzene	50	52	0.400	0.419	5		NA	± 30 %	AverageRF
‡ Pentachlorophenol	50	54	0.166	0.178	7		NA	± 30 %	AverageRF
Phenanthrene	50	54	0.977	1.05	7		NA	± 30 %	AverageRF
‡ Phenol	50	52	1.69	1.77	4		NA	± 30 %	AverageRF
Pyrene	50	55	1.33	1.47	11		NA	± 30 %	AverageRF
Pyridine	50	44	1.45	1.26	-13		NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
Date Analyzed: 04/24/2006

Continuing Calibration Verification Summary
Base Neutral / Acid Semivolatile Organic Compounds

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 04/22/2006
ICAL ID: CAL1154
Analysis Lot: LWG0600549
Units: mg/L

File ID: C:\MSDCHEM\1\DATA\S060424\S060560.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	25	24		0.326	0.318	-3	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	25	25		1.52	1.51	0	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	25	25		1.57	1.56	-1	NA	± 30 %	AverageRF
‡ 1,4-Dichlorobenzene	25	24		1.61	1.57	-3	NA	± 20 %	AverageRF
1,4-Dioxane	25	26		0.543	0.563	4	NA	± 30 %	AverageRF
2,4,5-Trichlorophenol	25	25		0.396	0.403	2	NA	± 30 %	AverageRF
‡ 2,4,6-Trichlorophenol	25	26		0.363	0.380	5	NA	± 20 %	AverageRF
‡ 2,4-Dichlorophenol	25	26		0.283	0.290	2	NA	± 20 %	AverageRF
2,4-Dimethylphenol	25	26		0.286	0.300	5	NA	± 30 %	AverageRF
† 2,4-Dinitrophenol	50	54	0.05	0.177	0.192	9	NA	± 30 %	AverageRF
2,4-Dinitrotoluene	25	27		0.345	0.379	10	NA	± 30 %	AverageRF
2,6-Dinitrotoluene	25	26		0.287	0.299	4	NA	± 30 %	AverageRF
2-Chloronaphthalene	25	26		1.07	1.13	5	NA	± 30 %	AverageRF
2-Chlorophenol	25	27		1.31	1.40	6	NA	± 30 %	AverageRF
2-Methyl-4,6-dinitrophenol	25	25		0.138	0.140	1	NA	± 30 %	AverageRF
2-Methylnaphthalene	25	25		0.651	0.655	1	NA	± 30 %	AverageRF
2-Methylphenol	25	26		1.23	1.29	5	NA	± 30 %	AverageRF
2-Nitroaniline	25	30		0.313	0.380	21	NA	± 30 %	AverageRF
‡ 2-Nitrophenol	25	25		0.176	0.179	2	NA	± 20 %	AverageRF
3,3'-Dichlorobenzidine	25	21		0.220	0.197	NA	-15	± 30 %	Linear
3- and 4-Methylphenol Coelution	50	55		0.768	0.838	9	NA	± 30 %	AverageRF
3-Nitroaniline	25	30		0.219	0.262	19	NA	± 30 %	AverageRF
4-Bromophenyl Phenyl Ether	25	25		0.221	0.219	-1	NA	± 30 %	AverageRF
4-Chloro-3-methylphenol	25	28		0.273	0.301	10	NA	± 30 %	AverageRF
4-Chloroaniline	25	24		0.300	0.291	-3	NA	± 30 %	AverageRF
4-Chlorophenyl Phenyl Ether	25	26		0.602	0.617	2	NA	± 30 %	AverageRF
4-Nitroaniline	25	28		0.212	0.240	13	NA	± 30 %	AverageRF
† 4-Nitrophenol	50	51	0.05	0.153	0.155	1	NA	± 30 %	AverageRF
‡ Acenaphthene	25	25		0.982	0.984	0	NA	± 20 %	AverageRF
Acenaphthylene	25	27		1.65	1.76	6	NA	± 30 %	AverageRF
Aniline	25	26		1.51	1.57	4	NA	± 30 %	AverageRF
Anthracene	25	26		0.947	0.979	3	NA	± 30 %	AverageRF
Benz(a)anthracene	25	25		1.10	1.08	-2	NA	± 30 %	AverageRF
‡ Benzo(a)pyrene	25	25		1.39	1.40	1	NA	± 20 %	AverageRF
Benzo(b)fluoranthene	25	25		1.73	1.75	1	NA	± 30 %	AverageRF
Benzo(g,h,i)perylene	25	22		0.905	0.786	-13	NA	± 30 %	AverageRF
Benzo(k)fluoranthene	25	26		1.66	1.71	3	NA	± 30 %	AverageRF
Benzoic acid	25	26		0.178	0.215	NA	5	± 30 %	Linear
Benzyl alcohol	25	27		0.756	0.831	10	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578
Date Analyzed: 04/24/2006

Continuing Calibration Verification Summary
Base Neutral / Acid Semivolatile Organic Compounds

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 04/22/2006
ICAL ID: CAL1154
Analysis Lot: LWG0600549
Units: mg/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
bis(2-Chloroethoxy)methane	25	27		0.361	0.388	7	NA	± 30 %	AverageRF
Bis(2-chloroethyl) Ether	25	26		1.33	1.36	2	NA	± 30 %	AverageRF
Bis(2-chloroisopropyl) Ether	25	51		0.312	0.638	104 *	NA	± 30 %	AverageRF
Bis(2-ethylhexyl) Phthalate	25	24		0.771	0.725	-6	NA	± 30 %	AverageRF
Butyl Benzyl Phthalate	25	24		0.577	0.591	NA	-3	± 30 %	Linear
Chrysene	25	24		1.03	0.991	-4	NA	± 30 %	AverageRF
Di-n-butyl Phthalate	25	28		1.12	1.26	12	NA	± 30 %	AverageRF
‡ Di-n-octyl Phthalate	25	22		2.44	2.18	-11	NA	± 20 %	AverageRF
Dibenz(a,h)anthracene	25	23		0.859	0.781	-9	NA	± 30 %	AverageRF
Dibenzofuran	25	26		1.50	1.58	6	NA	± 30 %	AverageRF
Diethyl Phthalate	25	28		1.16	1.30	12	NA	± 30 %	AverageRF
Dimethyl Phthalate	25	27		1.17	1.26	8	NA	± 30 %	AverageRF
‡ Fluoranthene	25	26		1.09	1.13	4	NA	± 20 %	AverageRF
Fluorene	25	26		1.17	1.23	4	NA	± 30 %	AverageRF
Hexachlorobenzene	25	26		0.240	0.247	3	NA	± 30 %	AverageRF
‡ Hexachlorobutadiene	25	24		0.198	0.189	-5	NA	± 20 %	AverageRF
† Hexachlorocyclopentadiene	25	27	0.05	0.366	0.402	10	NA	± 30 %	AverageRF
Hexachloroethane	25	27		0.641	0.679	6	NA	± 30 %	AverageRF
Indeno(1,2,3-cd)pyrene	25	23		1.13	1.03	-9	NA	± 30 %	AverageRF
Isophorone	25	28		0.677	0.758	12	NA	± 30 %	AverageRF
† N-Nitrosodi-n-propylamine	25	28	0.05	1.07	1.21	13	NA	± 30 %	AverageRF
N-Nitrosodimethylamine	25	36		0.539	0.786	46 *	NA	± 30 %	AverageRF
‡ N-Nitrosodiphenylamine	25	25		0.483	0.484	0	NA	± 30 %	AverageRF
Naphthalene	25	25		0.979	0.983	0	NA	± 30 %	AverageRF
Nitrobenzene	25	27		0.400	0.427	7	NA	± 30 %	AverageRF
‡ Pentachlorophenol	50	50		0.166	0.167	0	NA	± 20 %	AverageRF
Phenanthrene	25	25		0.977	0.968	-1	NA	± 30 %	AverageRF
‡ Phenol	25	26		1.69	1.74	3	NA	± 20 %	AverageRF
Pyrene	25	23		1.33	1.25	-6	NA	± 30 %	AverageRF
Pyridine	25	25		1.45	1.48	2	NA	± 30 %	AverageRF
2,4,6-Tribromophenol	25	25		0.123	0.123	1	NA	± 30 %	AverageRF
2-Fluorobiphenyl	25	25		1.21	1.23	1	NA	± 30 %	AverageRF
2-Fluorophenol	25	25		1.20	1.22	2	NA	± 30 %	AverageRF
Nitrobenzene-d5	25	28		0.358	0.399	11	NA	± 30 %	AverageRF
Phenol-d5	25	26		1.54	1.62	5	NA	± 30 %	AverageRF
Terphenyl-d14	25	24		0.914	0.871	-5	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants **Service Request:** L0600578
Project: TDY/SC0307

Analysis Run Log
Base Neutral / Acid Semivolatile Organic Compounds

Analysis Method: 8270C **Analysis Lot:** LWG0600549
Instrument ID: MSS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\S060559.D	GC/MS Tuning - Decafluorotriphenyl	LWG0600549-1	4/24/2006	11:03		4/24/2006	11:11
\S060560.D	Continuing Calibration Verification	LWG0600549-2	4/24/2006	11:19		4/24/2006	11:44
\S060563.D	Method Blank	LWG0600535-3	4/24/2006	13:04		4/24/2006	13:29
\S060564.D	Lab Control Sample	LWG0600535-1	4/24/2006	13:38		4/24/2006	14:03
\S060565.D	Duplicate Lab Control Sample	LWG0600535-2	4/24/2006	14:12		4/24/2006	14:37
\S060566.D	T-45 GW-37	L0600578-001	4/24/2006	14:45		4/24/2006	15:10
\S060567.D	T-45 GW-11	L0600578-002	4/24/2006	15:19		4/24/2006	15:44
\S060568.D	T-44 GW-11	L0600578-003	4/24/2006	17:28		4/24/2006	17:53
\S060569.D	T-46 GW-11	L0600578-004	4/24/2006	18:02		4/24/2006	18:27
\S060570.D	B131-MW2D	L0600578-005	4/24/2006	18:36		4/24/2006	19:01
\S060571.D	B131-MW3D	L0600578-007	4/24/2006	19:09		4/24/2006	19:34
\S060572.D	T-45 GW-11	L0600578-002	4/24/2006	19:42		4/24/2006	20:07

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: L0600578
Date Extracted: 04/06/2006

Extraction Prep Log
Base Neutral / Acid Semivolatile Organic Compounds

Extraction Method: EPA 3520C
Analysis Method: 8270C

Extraction Lot: LWG0600535
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
T-45 GW-37	L0600578-001	03/30/06	04/03/06	1050ml	1ml	NA	
T-45 GW-11DL	L0600578-002	03/30/06	04/03/06	1050ml	1ml	NA	
T-45 GW-11	L0600578-002	03/30/06	04/03/06	1050ml	1ml	NA	
T-44 GW-11	L0600578-003	03/30/06	04/03/06	1050ml	1ml	NA	
T-46 GW-11	L0600578-004	03/30/06	04/03/06	1050ml	1ml	NA	
B131-MW2D	L0600578-005	03/31/06	04/03/06	1000ml	1ml	NA	
B131-MW3D	L0600578-007	03/31/06	04/03/06	980ml	1ml	NA	
Method Blank	LWG0600535-3	NA	NA	1000ml	1ml	NA	
Lab Control Sample	LWG0600535-1	NA	NA	1000ml	1ml	NA	
Duplicate Lab Control Sample	LWG0600535-2	NA	NA	1000ml	1ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Initial Calibration Data

Calibration ID:	CAL1154	**Instrument ID:**	MSS
Method ID:	MJ360	**Column Name:**	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
1,4-Dioxane	MS	AverageRF		0.543	15	11.7			OK	
N-Nitrosodimethylamine	TRG	AverageRF		0.539	15	13.0			OK	
Pyridine	TRG	AverageRF		1.449	15	5.8			OK	
PGMEA	TRG	AverageRF		0.781	15	8.1			OK	
2-Fluorophenol	SURR	AverageRF		1.199	15	8.8			NA	
Phenol-d5	SURR	AverageRF		1.537	15	7.6			NA	
Aniline	TRG	AverageRF		1.513	15	6.7			OK	
Phenol	MS	AverageRF		1.695	15	9.4			OK	
Bis(2-chloroethyl) Ether	TRG	AverageRF		1.330	15	4.7			OK	
2-Chlorophenol	MS	AverageRF		1.315	15	8.0			OK	
1,3-Dichlorobenzene	TRG	AverageRF		1.573	15	5.4			OK	
1,4-Dichlorobenzene	MS	AverageRF		1.608	15	3.5			OK	
Benzyl alcohol	TRG	AverageRF		0.756	15	12.3			OK	
1,2-Dichlorobenzene	TRG	AverageRF		1.518	15	4.6			OK	
1-Methyl-2-pyrrolidinone	TRG	AverageRF		0.794	15	11.3			OK	
2-Methylphenol	TRG	AverageRF		1.229	15	5.3			OK	
Bis(2-chloroisopropyl) Ether	TRG	AverageRF		0.312	15	6.4			OK	
N-Nitrosodi-n-propylamine	MS	AverageRF	0.050	1.073	15	7.1			OK	
Hexachloroethane	TRG	AverageRF		0.641	15	5.4			OK	
3- and 4-Methylphenol Coelution	TRG	AverageRF		0.768	15	8.4			OK	
Nitrobenzene-d5	SURR	AverageRF		0.358	15	10.5			NA	
Nitrobenzene	TRG	AverageRF		0.400	15	8.8			OK	
Isophorone	TRG	AverageRF		0.677	15	10.6			OK	
2-Nitrophenol	TRG	AverageRF		0.176	15	10.7			OK	
2,4-Dimethylphenol	TRG	AverageRF		0.286	15	8.5			OK	
bis(2-Chloroethoxy)methane	TRG	AverageRF		0.361	15	9.4			OK	
2,4-Dichlorophenol	TRG	AverageRF		0.283	15	8.9			OK	
1,2,4-Trichlorobenzene	MS	AverageRF		0.326	15	5.8			OK	
Benzoic acid	TRG	Linear		0.178			0.99	0.9986	OK	3.40
Naphthalene	TRG	AverageRF		0.979	15	4.6			OK	
4-Chloroaniline	TRG	AverageRF		0.300	15	9.1			OK	
Hexachlorobutadiene	TRG	AverageRF		0.198	15	4.2			OK	
4-Chloro-3-methylphenol	MS	AverageRF		0.273	15	10.1			OK	
2-Methylnaphthalene	TRG	AverageRF		0.651	15	7.1			OK	
Hexachlorocyclopentadiene	TRG	AverageRF	0.050	0.366	15	8.5			OK	
2,4,6-Trichlorophenol	TRG	AverageRF		0.363	15	9.2			OK	
2,4,5-Trichlorophenol	TRG	AverageRF		0.396	15	9.2			OK	
2-Fluorobiphenyl	SURR	AverageRF		1.212	15	5.3			NA	
2-Chloronaphthalene	TRG	AverageRF		1.069	15	6.6			OK	
2-Nitroaniline	TRG	AverageRF		0.313	15	12.1			OK	
Dimethyl Phthalate	TRG	AverageRF		1.166	15	8.5			OK	
Acenaphthylene	TRG	AverageRF		1.653	15	7.7			OK	
2,6-Dinitrotoluene	TRG	AverageRF		0.287	15	13.0			OK	
3-Nitroaniline	TRG	AverageRF		0.219	15	10.7			OK	
Acenaphthene	MS	AverageRF		0.982	15	3.7			OK	
2,4-Dinitrophenol	TRG	AverageRF	0.050	0.177	15	11.3			OK	
Dibenzofuran	TRG	AverageRF		1.499	15	4.3			OK	
4-Nitrophenol	MS	AverageRF	0.050	0.153	15	11.8			OK	
2,4-Dinitrotoluene	MS	AverageRF		0.345	15	9.8			OK	
Fluorene	TRG	AverageRF		1.174	15	6.4			OK	
Diethyl Phthalate	TRG	AverageRF		1.158	15	8.7			OK	
4-Chlorophenyl Phenyl Ether	TRG	AverageRF		0.602	15	6.9			OK	

Calibration ID:	CAL1154	**Instrument ID:**	MSS
Method ID:	MJ360	**Column Name:**	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
4-Nitroaniline	TRG	AverageRF		0.212	15	8.4			OK	
2-Methyl-4,6-dinitrophenol	TRG	AverageRF		0.138	15	9.0			OK	
N-Nitrosodiphenylamine	TRG	AverageRF		0.483	15	7.7			OK	
Azobenzene	TRG	AverageRF		0.847	15	11.2			OK	
2,4,6-Tribromophenol	SURR	AverageRF		0.123	15	9.9			NA	
4-Bromophenyl Phenyl Ether	TRG	AverageRF		0.221	15	7.0			OK	
Hexachlorobenzene	TRG	AverageRF		0.240	15	5.5			OK	
Pentachlorophenol	MS	AverageRF		0.166	15	9.5			OK	
Phenanthrene	TRG	AverageRF		0.977	15	4.0			OK	
Anthracene	TRG	AverageRF		0.947	15	6.7			OK	
Carbazole	TRG	AverageRF		0.746	15	8.9			OK	
Di-n-butyl Phthalate	TRG	AverageRF		1.123	15	12.4			OK	
Fluoranthene	TRG	AverageRF		1.093	15	7.5			OK	
Pyrene	MS	AverageRF		1.334	15	13.6			OK	
Terphenyl-d14	SURR	AverageRF		0.914	15	12.7			NA	
Butyl Benzyl Phthalate	TRG	Linear		0.577			0.99	0.9954	OK	3.21
Benz(a)anthracene	TRG	AverageRF		1.097	15	6.9			OK	
3,3'-Dichlorobenzidine	TRG	Linear		0.220			0.99	0.9958	OK	2.48*
Chrysene	TRG	AverageRF		1.028	15	4.4			OK	
Bis(2-ethylhexyl) Phthalate	TRG	AverageRF		0.771	15	14.6			OK	
Mirex	TRG	AverageRF		0.212	15	13.1			OK	
Di-n-octyl Phthalate	TRG	AverageRF		2.435	15	28.0*			OK	
Benzo(b)fluoranthene	TRG	AverageRF		1.726	15	9.9			OK	
Benzo(k)fluoranthene	TRG	AverageRF		1.657	15	9.6			OK	
Benzo(a)pyrene	TRG	AverageRF		1.386	15	10.4			OK	
Indeno(1,2,3-cd)pyrene	TRG	AverageRF		1.133	15	8.7			OK	
Dibenz(a,h)anthracene	TRG	AverageRF		0.859	15	10.0			OK	
Benzo(g,h,i)perylene	TRG	AverageRF		0.905	15	6.2			OK	

Method Specified Maximum Average %RSD = 15.0 **Calculated Average %RSD =** 9.3

Calibration ID:	CAL1154	**Instrument ID:**	MSS
Method ID:	MJ360	**Column Name:**	MS

SPCC and CCC Evaluations

Parameter Name	Type	SPCC Criteria	SPCC Result	CCC Criteria	CCC Result
Phenol	CCC			30	9.4
1,4-Dichlorobenzene	CCC			30	3.5
N-Nitrosodi-n-propylamine	SPCC	0.050	1.073		
2-Nitrophenol	CCC			30	10.7
2,4-Dichlorophenol	CCC			30	8.9
Hexachlorobutadiene	CCC			30	4.2
Hexachlorocyclopentadiene	SPCC	0.050	0.366		
2,4,6-Trichlorophenol	CCC			30	9.2
Acenaphthene	CCC			30	3.7
2,4-Dinitrophenol	SPCC	0.050	0.177		
4-Nitrophenol	SPCC	0.050	0.153		
N-Nitrosodiphenylamine	CCC			30	7.7
Pentachlorophenol	CCC			30	9.5
Fluoranthene	CCC			30	7.5
Di-n-octyl Phthalate	CCC			30	28.0
Benzo(a)pyrene	CCC			30	10.4

Calibration ID:	CAL1154	**Instrument ID:**	MSS
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
14664	C:\MSDCHEM\1\DATA\S060422\S060540.D	04/22/2006 17:10	04/23/2006 09:52	04/24/2006 08:57
14665	C:\MSDCHEM\1\DATA\S060422\S060541.D	04/22/2006 17:44	04/23/2006 09:48	04/24/2006 08:57
14666	C:\MSDCHEM\1\DATA\S060422\S060542.D	04/22/2006 18:17	04/23/2006 09:44	04/24/2006 08:57
14667	C:\MSDCHEM\1\DATA\S060422\S060543.D	04/22/2006 18:51	04/23/2006 09:38	04/24/2006 08:57
14668	C:\MSDCHEM\1\DATA\S060422\S060544.D	04/22/2006 19:25	04/23/2006 09:23	04/24/2006 08:57
14669	C:\MSDCHEM\1\DATA\S060422\S060545.D	04/22/2006 19:59	04/23/2006 09:25	04/24/2006 08:57
14670	C:\MSDCHEM\1\DATA\S060422\S060546.D	04/22/2006 20:33	04/23/2006 09:28	04/24/2006 08:57
14671	C:\MSDCHEM\1\DATA\S060422\S060547.D	04/22/2006 21:07	04/23/2006 09:33	04/24/2006 08:57

	FileID								Mean	
Parameter Name	**14664**	**14665**	**14666**	**14667**	**14668**	**14669**	**14670**	**14671**	**RF**	**%RSD**
1,4-Dioxane	0.432	0.462	0.581	0.542	0.562	0.606	0.601	0.561	0.543	11.7
N-Nitrosodimethylamine		0.442	0.472	0.501	0.537	0.599	0.607	0.615	0.539	13.0
Pyridine		1.354	1.369	1.382	1.453	1.557	1.546	1.482	1.449	5.8
PGMEA		0.700	0.713	0.746	0.785	0.837	0.854	0.835	0.781	8.1
2-Fluorophenol		1.049	1.084	1.144	1.240	1.304	1.299	1.274	1.199	8.8
Phenol-d5		1.421	1.386	1.448	1.567	1.650	1.669	1.618	1.537	7.6
Aniline		1.328	1.439	1.499	1.539	1.605	1.609	1.575	1.513	6.7
Phenol		1.482	1.549	1.602	1.694	1.769	1.907	1.859	1.695	9.4
Bis(2-chloroethyl) Ether	1.228	1.346	1.274	1.294	1.335	1.392	1.417	1.359	1.330	4.7
2-Chlorophenol	1.110	1.260	1.272	1.292	1.354	1.418	1.436	1.378	1.315	8.0
1,3-Dichlorobenzene	1.410	1.609	1.512	1.530	1.580	1.649	1.661	1.630	1.573	5.4
1,4-Dichlorobenzene	1.516	1.607	1.580	1.558	1.604	1.672	1.685	1.642	1.608	3.5
Benzyl alcohol		0.610	0.645	0.747	0.805	0.817	0.839	0.830	0.756	12.3
1,2-Dichlorobenzene	1.386	1.514	1.488	1.487	1.528	1.594	1.605	1.544	1.518	4.6
1-Methyl-2-pyrrolidinone			0.637	0.756	0.823	0.876	0.877	0.796	0.794	11.3
2-Methylphenol		1.140	1.154	1.205	1.248	1.305	1.291	1.258	1.229	5.3
Bis(2-chloroisopropyl) Ether		0.305	0.293	0.289	0.301	0.333	0.340	0.323	0.312	6.4
N-Nitrosodi-n-propylamine		0.967	0.989	1.033	1.096	1.147	1.149	1.129	1.073	7.1
Hexachloroethane	0.593	0.614	0.621	0.620	0.644	0.686	0.684	0.665	0.641	5.4
3- and 4-Methylphenol Coelution		0.679	0.687	0.748	0.799	0.829	0.830	0.806	0.768	8.4
Nitrobenzene-d5	0.282	0.342	0.336	0.359	0.379	0.386	0.393	0.388	0.358	10.5
Nitrobenzene	0.328	0.384	0.380	0.406	0.422	0.432	0.430	0.422	0.400	8.8
Isophorone	0.541	0.631	0.630	0.682	0.717	0.737	0.746	0.729	0.677	10.6
2-Nitrophenol		0.144	0.154	0.183	0.181	0.188	0.192	0.187	0.176	10.7
2,4-Dimethylphenol	0.239	0.270	0.274	0.285	0.297	0.309	0.308	0.305	0.286	8.5
bis(2-Chloroethoxy)methane	0.290	0.341	0.352	0.363	0.379	0.390	0.391	0.382	0.361	9.4
2,4-Dichlorophenol		0.251	0.250	0.272	0.294	0.306	0.306	0.303	0.283	8.9
1,2,4-Trichlorobenzene	0.285	0.334	0.317	0.324	0.329	0.339	0.344	0.338	0.326	5.8
Benzoic acid			0.061	0.134	0.203	0.223	0.225	0.219	0.178	37.6#
Naphthalene	0.884	0.984	0.963	0.959	0.990	1.015	1.024	1.010	0.979	4.6
4-Chloroaniline		0.289	0.319	0.288	0.264	0.290	0.303	0.349	0.300	9.1
Hexachlorobutadiene	0.183	0.200	0.194	0.193	0.200	0.206	0.208	0.204	0.198	4.2
4-Chloro-3-methylphenol		0.233	0.239	0.266	0.286	0.292	0.302	0.294	0.273	10.1
2-Methylnaphthalene	0.555	0.633	0.638	0.647	0.657	0.689	0.697	0.689	0.651	7.1
Hexachlorocyclopentadiene		0.317	0.338	0.351	0.379	0.383	0.387	0.405	0.366	8.5
2,4,6-Trichlorophenol		0.320	0.318	0.355	0.375	0.386	0.402	0.387	0.363	9.2
2,4,5-Trichlorophenol		0.338	0.363	0.384	0.399	0.427	0.437	0.422	0.396	9.2
2-Fluorobiphenyl	1.084	1.218	1.178	1.174	1.258	1.254	1.285	1.246	1.212	5.3
2-Chloronaphthalene	0.931	1.056	1.025	1.046	1.098	1.122	1.154	1.120	1.069	6.6

Calibration ID:	CAL1154	**Instrument ID:**	MSS
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	AverageRF

Parameter Name	FileID 14664	14665	14666	14667	14668	14669	14670	14671	Mean RF	%RSD
2-Nitroaniline			0.248	0.290	0.320	0.340	0.347	0.335	0.313	12.1
Dimethyl Phthalate	0.963	1.117	1.127	1.168	1.204	1.247	1.278	1.223	1.166	8.5
Acenaphthylene	1.384	1.610	1.601	1.657	1.703	1.736	1.786	1.749	1.653	7.7
2,6-Dinitrotoluene		0.227	0.251	0.276	0.300	0.315	0.327	0.315	0.287	13.0
3-Nitroaniline		0.182	0.217	0.197	0.217	0.235	0.241	0.246	0.219	10.7
Acenaphthene	0.927	0.990	0.941	0.960	0.984	1.018	1.028	1.007	0.982	3.7
2,4-Dinitrophenol				0.143	0.176	0.193	0.188	0.182	0.177	11.3
Dibenzofuran	1.375	1.501	1.459	1.473	1.528	1.567	1.570	1.518	1.499	4.3
4-Nitrophenol				0.123	0.150	0.163	0.167	0.164	0.153	11.8
2,4-Dinitrotoluene		0.290	0.313	0.336	0.363	0.375	0.380	0.358	0.345	9.8
Fluorene	1.015	1.139	1.154	1.178	1.211	1.232	1.253	1.209	1.174	6.4
Diethyl Phthalate	0.956	1.089	1.122	1.173	1.203	1.236	1.265	1.219	1.158	8.7
4-Chlorophenyl Phenyl Ether	0.517	0.608	0.575	0.596	0.617	0.637	0.649	0.620	0.602	6.9
4-Nitroaniline			0.184	0.196	0.219	0.218	0.230	0.226	0.212	8.4
2-Methyl-4,6-dinitrophenol				0.117	0.138	0.149	0.143	0.142	0.138	9.0
N-Nitrosodiphenylamine	0.405	0.479	0.476	0.466	0.494	0.518	0.514	0.513	0.483	7.7
Azobenzene	0.676	0.811	0.805	0.829	0.864	0.881	0.905	1.007	0.847	11.2
2,4,6-Tribromophenol			0.103	0.113	0.126	0.132	0.133	0.129	0.123	9.9
4-Bromophenyl Phenyl Ether	0.194	0.218	0.207	0.215	0.229	0.237	0.238	0.233	0.221	7.0
Hexachlorobenzene	0.216	0.228	0.235	0.238	0.245	0.253	0.253	0.250	0.240	5.5
Pentachlorophenol				0.141	0.161	0.178	0.176	0.175	0.166	9.5
Phenanthrene	0.897	0.992	0.967	0.954	0.981	1.011	1.022	0.992	0.977	4.0
Anthracene	0.814	0.919	0.924	0.955	0.963	1.006	1.011	0.988	0.947	6.7
Carbazole	0.607	0.742	0.778	0.741	0.709	0.770	0.803	0.817	0.746	8.9
Di-n-butyl Phthalate	0.859	1.010	1.058	1.132	1.191	1.261	1.241	1.236	1.123	12.4
Fluoranthene	0.926	1.044	1.071	1.089	1.138	1.180	1.134	1.165	1.093	7.5
Pyrene			1.143	1.185	1.282	1.419	1.642	1.331	1.334	13.6
Terphenyl-d14		0.814	0.806	0.832	0.896	0.990	1.129	0.928	0.914	12.7
Butyl Benzyl Phthalate			0.431	0.511	0.572	0.627	0.690	0.634	0.577	16.3#
Benz(a)anthracene	1.002	1.029	1.029	1.063	1.115	1.172	1.179	1.185	1.097	6.9
3,3'-Dichlorobenzidine		0.226	0.243	0.137	0.224	0.249	0.242		0.220	19.2#
Chrysene	0.936	1.041	1.010	1.005	1.033	1.072	1.069	1.058	1.028	4.4
Bis(2-ethylhexyl) Phthalate			0.585	0.711	0.759	0.821	0.893	0.858	0.771	14.6
Mirex		0.182	0.183	0.192	0.210	0.229	0.256	0.228	0.212	13.1
Di-n-octyl Phthalate			1.419	1.866	2.503	2.813	3.305	2.705	2.435	28.0*
Benzo(b)fluoranthene		1.510	1.564	1.582	1.904	1.895	1.875	1.754	1.726	9.9
Benzo(k)fluoranthene	1.467	1.539	1.479	1.603	1.842	1.772	1.869	1.683	1.657	9.6
Benzo(a)pyrene		1.188	1.209	1.322	1.524	1.481	1.512	1.466	1.386	10.4
Indeno(1,2,3-cd)pyrene	1.071	1.092	0.996	1.040	1.151	1.209	1.249	1.256	1.133	8.7
Dibenz(a,h)anthracene	0.810	0.795	0.747	0.786	0.891	0.915	0.951	0.979	0.859	10.0
Benzo(g,h,i)perylene	0.914	0.933	0.836	0.817	0.878	0.944	0.981	0.938	0.905	6.2

 # RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

Alternate Calibration Evaluation Summary

Maximum Allowable Average %RSD =	15.0
Calculated Average %RSD =	10.2

1 compound out of 80 failed Maximum %RSD criteria

Initial Calibration - Detailed Report

Calibration ID:	CAL1154	**Instrument ID:**	MSS
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
14664	C:\MSDCHEM\1\DATA\S060422\S060540.D	04/22/2006 17:10	04/23/2006 09:52	04/24/2006 08:57
14665	C:\MSDCHEM\1\DATA\S060422\S060541.D	04/22/2006 17:44	04/23/2006 09:48	04/24/2006 08:57
14666	C:\MSDCHEM\1\DATA\S060422\S060542.D	04/22/2006 18:17	04/23/2006 09:44	04/24/2006 08:57
14667	C:\MSDCHEM\1\DATA\S060422\S060543.D	04/22/2006 18:51	04/23/2006 09:38	04/24/2006 08:57
14668	C:\MSDCHEM\1\DATA\S060422\S060544.D	04/22/2006 19:25	04/23/2006 09:23	04/24/2006 08:57
14669	C:\MSDCHEM\1\DATA\S060422\S060545.D	04/22/2006 19:59	04/23/2006 09:25	04/24/2006 08:57
14670	C:\MSDCHEM\1\DATA\S060422\S060546.D	04/22/2006 20:33	04/23/2006 09:28	04/24/2006 08:57
14671	C:\MSDCHEM\1\DATA\S060422\S060547.D	04/22/2006 21:07	04/23/2006 09:33	04/24/2006 08:57

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
Benzoic acid		0.229	-0.016	0.9986	0.178
Butyl Benzyl Phthalate		0.663	-0.032	0.9954	0.577
3,3'-Dichlorobenzidine		0.250	-0.010	0.9958	0.220

CalibrationID: CAL1154 **Units:** ug/L

Method ID: MJ360 **Column:** MS

DataFile Location: C:\MSDCHEM\1\DATA\S060422\S060548.D

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
1,4-Dioxane	14672	AverageRF	30	0.543	0.572	5.2	50.00	52.6	
N-Nitrosodimethylamine	14672	AverageRF	30	0.539	0.578	7.3	50.00	53.6	
Pyridine	14672	AverageRF	30	1.449	1.265	-12.7	50.00	43.6	
PGMEA	14672	AverageRF	30	0.781	0.702	-10.2	50.00	44.9	
Aniline	14672	AverageRF	30	1.513	1.276	-15.7	50.00	42.2	
Phenol	14672	AverageRF	30	1.695	1.766	4.2	50.00	52.1	
Bis(2-chloroethyl) Ether	14672	AverageRF	30	1.330	1.372	3.1	50.00	51.6	
2-Chlorophenol	14672	AverageRF	30	1.315	1.354	2.9	50.00	51.5	
1,3-Dichlorobenzene	14672	AverageRF	30	1.573	1.589	1.0	50.00	50.5	
1,4-Dichlorobenzene	14672	AverageRF	30	1.608	1.626	1.1	50.00	50.6	
Benzyl alcohol	14672	AverageRF	30	0.756	0.915	21.0	50.00	60.5	
1,2-Dichlorobenzene	14672	AverageRF	30	1.518	1.487	-2.0	50.00	49.0	
1-Methyl-2-pyrrolidinone	14672	AverageRF	30	0.794	0.740	-6.9	50.00	46.6	
2-Methylphenol	14672	AverageRF	30	1.229	1.165	-5.2	50.00	47.4	
Bis(2-chloroisopropyl) Ether	14672	AverageRF	30	0.312	0.421	35.0 *	50.00	67.5	
N-Nitrosodi-n-propylamine	14672	AverageRF	30	1.073	1.042	-2.9	50.00	48.5	
Hexachloroethane	14672	AverageRF	30	0.641	0.668	4.3	50.00	52.1	
3- and 4-Methylphenol Coelution	14672	AverageRF	30	0.768	0.774	0.7	100.00	100.7	
Nitrobenzene	14672	AverageRF	30	0.400	0.419	4.6	50.00	52.3	
Isophorone	14672	AverageRF	30	0.677	0.607	-10.3	50.00	44.8	
2-Nitrophenol	14672	AverageRF	30	0.176	0.191	8.9	50.00	54.5	
2,4-Dimethylphenol	14672	AverageRF	30	0.286	0.281	-1.8	50.00	49.1	
bis(2-Chloroethoxy)methane	14672	AverageRF	30	0.361	0.426	17.9	50.00	59.0	
2,4-Dichlorophenol	14672	AverageRF	30	0.283	0.286	1.0	50.00	50.5	
1,2,4-Trichlorobenzene	14672	AverageRF	30	0.326	0.332	1.9	50.00	50.9	
Benzoic acid	14672	Linear	30				50.00	47.8	-4.4
Naphthalene	14672	AverageRF	30	0.979	1.017	3.9	50.00	52.0	
4-Chloroaniline	14672	AverageRF	30	0.300	0.345	14.8	50.00	57.4	
Hexachlorobutadiene	14672	AverageRF	30	0.198	0.205	3.5	50.00	51.7	
4-Chloro-3-methylphenol	14672	AverageRF	30	0.273	0.283	3.6	50.00	51.8	
2-Methylnaphthalene	14672	AverageRF	30	0.651	0.701	7.7	50.00	53.8	
Hexachlorocyclopentadiene	14672	AverageRF	30	0.366	0.275	-24.7	50.00	37.6	
2,4,6-Trichlorophenol	14672	AverageRF	30	0.363	0.366	0.7	50.00	50.4	
2,4,5-Trichlorophenol	14672	AverageRF	30	0.396	0.408	3.1	50.00	51.6	
2-Chloronaphthalene	14672	AverageRF	30	1.069	1.119	4.7	50.00	52.3	
2-Nitroaniline	14672	AverageRF	30	0.313	0.341	8.6	50.00	54.3	
Dimethyl Phthalate	14672	AverageRF	30	1.166	1.248	7.0	50.00	53.5	
Acenaphthylene	14672	AverageRF	30	1.653	1.566	-5.3	50.00	47.4	
2,6-Dinitrotoluene	14672	AverageRF	30	0.287	0.312	8.6	50.00	54.3	
3-Nitroaniline	14672	AverageRF	30	0.219	0.266	21.5	50.00	60.8	
Acenaphthene	14672	AverageRF	30	0.982	1.030	4.9	50.00	52.4	
2,4-Dinitrophenol	14672	AverageRF	30	0.177	0.183	3.4	50.00	51.7	
Dibenzofuran	14672	AverageRF	30	1.499	1.535	2.4	50.00	51.2	
4-Nitrophenol	14672	AverageRF	30	0.153	0.164	6.9	50.00	53.5	
2,4-Dinitrotoluene	14672	AverageRF	30	0.345	0.376	9.1	50.00	54.5	
Fluorene	14672	AverageRF	30	1.174	1.267	7.9	50.00	54.0	
Diethyl Phthalate	14672	AverageRF	30	1.158	1.248	7.8	50.00	53.9	

1 compound out of 74 failed max individual %D criteria.

CalibrationID: CAL1154 **Units:** ug/L

Method ID: MJ360 **Column:** MS

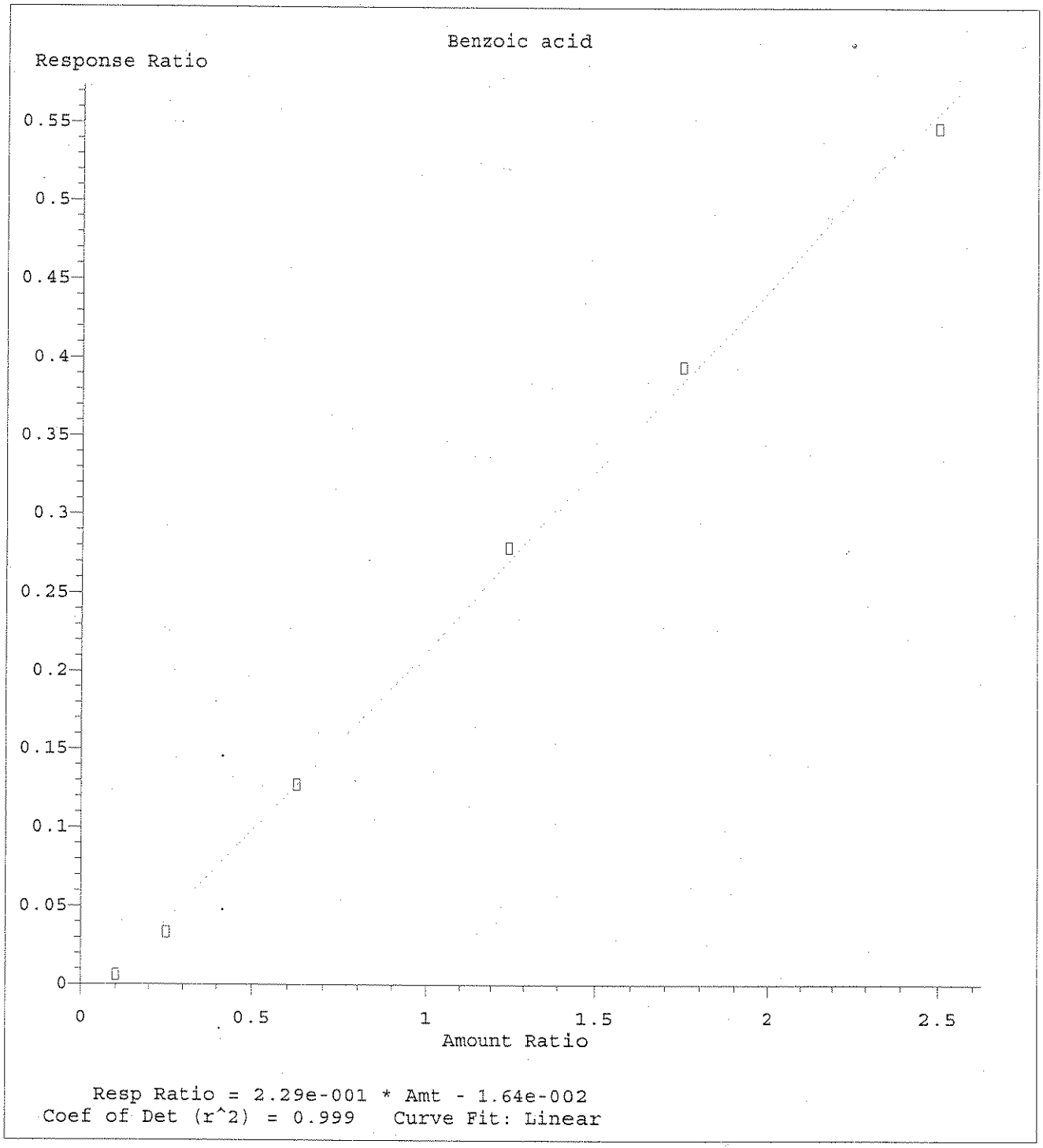
DataFile Location: C:\MSDCHEM\1\DATA\S060422\S060548.D

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
4-Chlorophenyl Phenyl Ether	14672	AverageRF	30	0.602	0.643	6.7	50.00	53.4	
4-Nitroaniline	14672	AverageRF	30	0.212	0.239	12.9	50.00	56.4	
2-Methyl-4,6-dinitrophenol	14672	AverageRF	30	0.138	0.140	1.3	50.00	50.7	
N-Nitrosodiphenylamine	14672	AverageRF	30	0.483	0.454	-6.1	50.00	46.9	
Azobenzene	14672	AverageRF	30	0.847	0.866	2.2	50.00	51.1	
4-Bromophenyl Phenyl Ether	14672	AverageRF	30	0.221	0.231	4.2	50.00	52.1	
Hexachlorobenzene	14672	AverageRF	30	0.240	0.240	0.0	50.00	50.0	
Pentachlorophenol	14672	AverageRF	30	0.166	0.178	7.1	50.00	53.5	
Phenanthrene	14672	AverageRF	30	0.977	1.048	7.2	50.00	53.6	
Anthracene	14672	AverageRF	30	0.947	1.003	5.9	50.00	52.9	
Carbazole	14672	AverageRF	30	0.746	0.783	5.0	50.00	52.5	
Di-n-butyl Phthalate	14672	AverageRF	30	1.123	1.264	12.5	50.00	56.3	
Fluoranthene	14672	AverageRF	30	1.093	1.164	6.5	50.00	53.2	
Pyrene	14672	AverageRF	30	1.334	1.475	10.6	50.00	55.3	
Butyl Benzyl Phthalate	14672	Linear	30				50.00	52.2	4.4
Benz(a)anthracene	14672	AverageRF	30	1.097	1.187	8.2	50.00	54.1	
3,3'-Dichlorobenzidine	14672	Linear	30				50.00	62.8	25.6
Chrysene	14672	AverageRF	30	1.028	1.052	2.3	50.00	51.2	
Bis(2-ethylhexyl) Phthalate	14672	AverageRF	30	0.771	0.929	20.5	50.00	60.3	
Mirex	14672	AverageRF	30	0.212	0.217	2.4	25.00	25.6	
Di-n-octyl Phthalate	14672	AverageRF	30	2.435	2.682	10.1	50.00	55.1	
Benzo(b)fluoranthene	14672	AverageRF	30	1.726	1.615	-6.4	50.00	46.8	
Benzo(k)fluoranthene	14672	AverageRF	30	1.657	1.494	-9.8	50.00	45.1	
Benzo(a)pyrene	14672	AverageRF	30	1.386	1.235	-10.9	50.00	44.5	
Indeno(1,2,3-cd)pyrene	14672	AverageRF	30	1.133	1.033	-8.8	50.00	45.6	
Dibenz(a,h)anthracene	14672	AverageRF	30	0.859	0.822	-4.3	50.00	47.9	
Benzo(g,h,i)perylene	14672	AverageRF	30	0.905	0.781	-13.7	50.00	43.1	

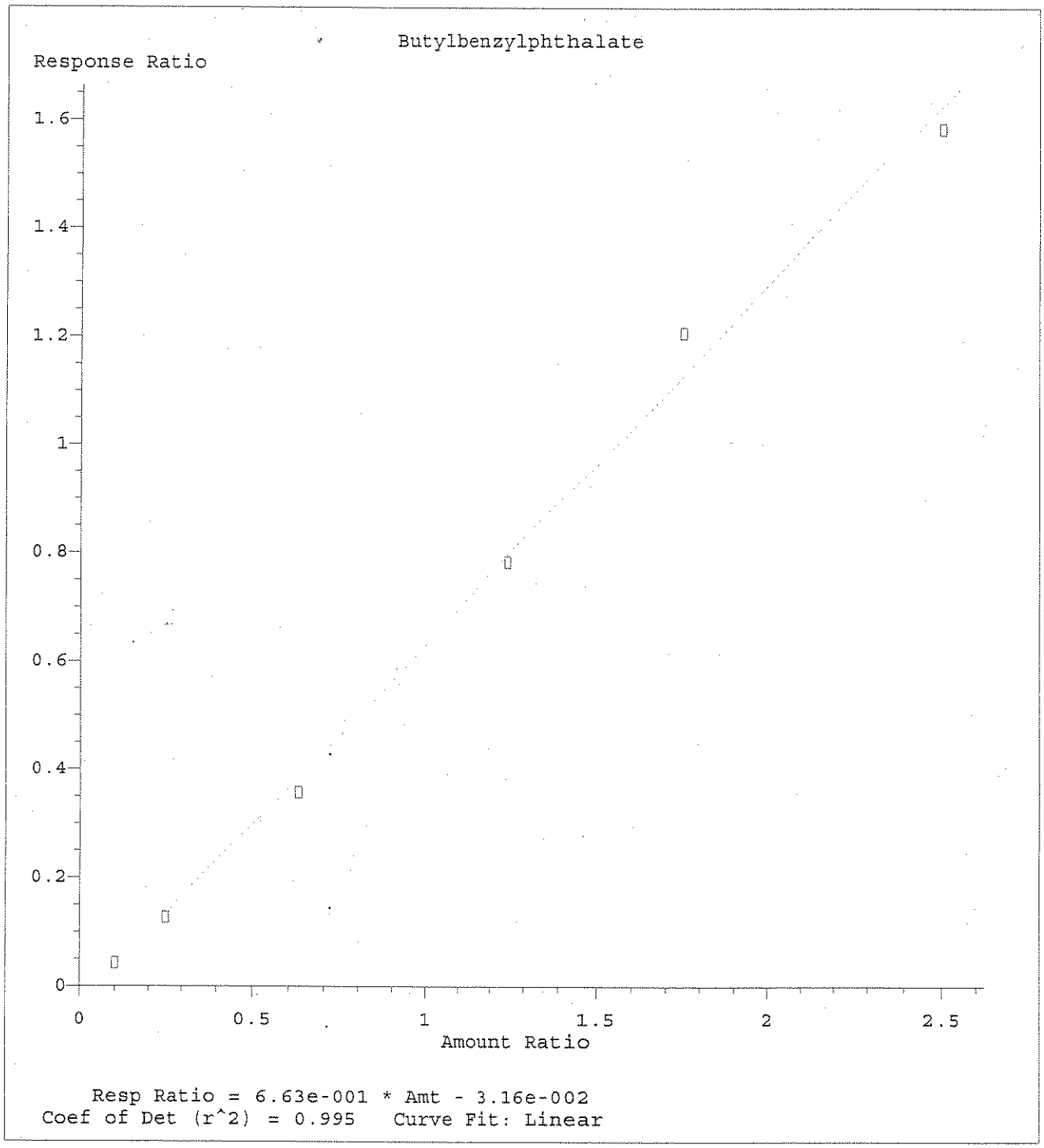
Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	0.0
Calculated Average %D =	7.7

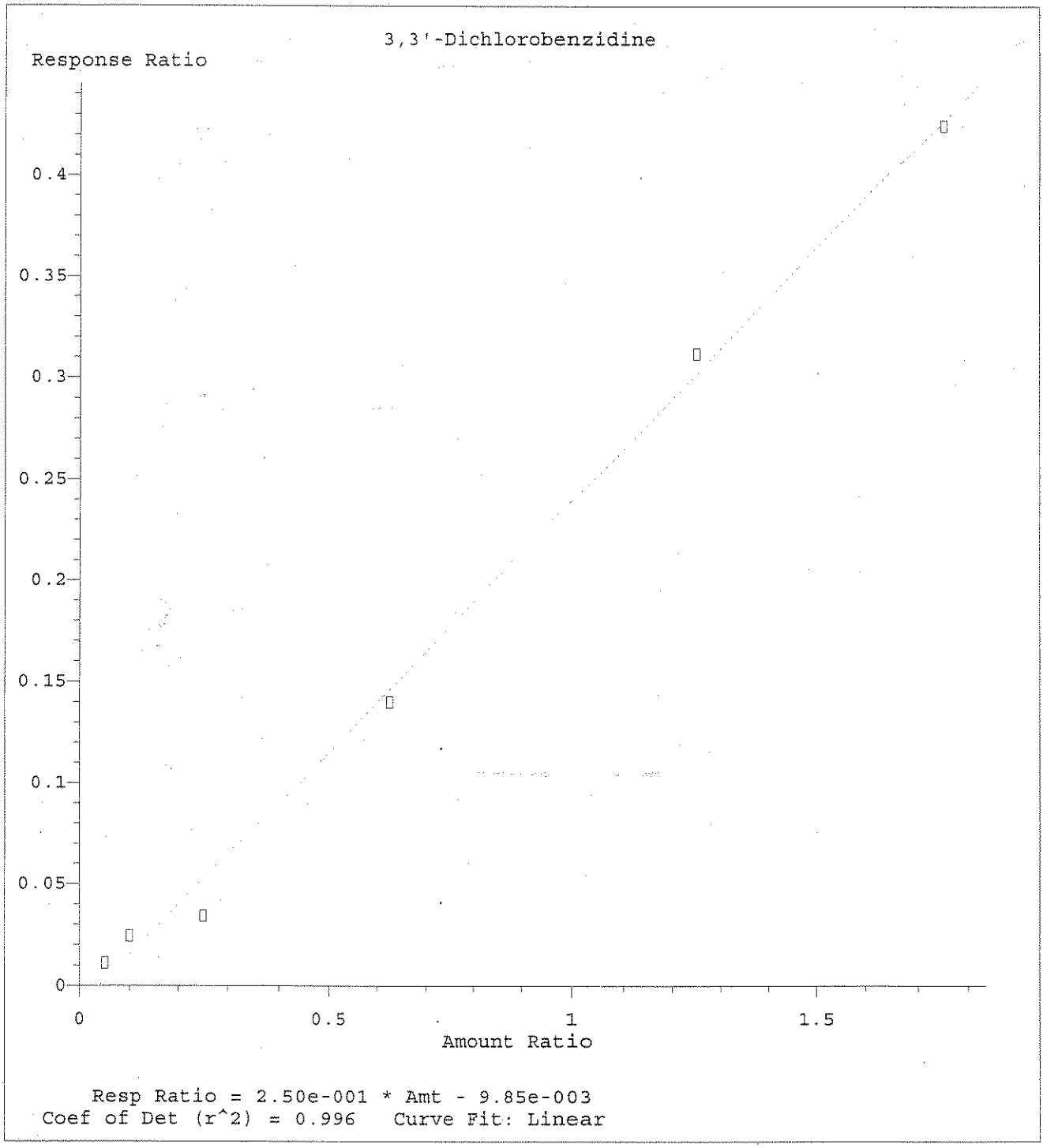
1 compound out of 74 failed max individual %D criteria.



Method Name: C:\MSDCHEM\1\METHODS\BA060422.M
Calibration Table Last Updated: Sun Apr 23 10:03:28 2006



Method Name: C:\MSDCHEM\1\METHODS\BA060422.M
Calibration Table Last Updated: Sun Apr 23 10:13:39 2006



Method Name: C:\MSDCHEM\1\METHODS\BA060422.M
Calibration Table Last Updated: Sun Apr 23 10:14:51 2006

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	40	C:\MSDCHEM\1\DATA\S060422\S060540.D
2	2	2	40	C:\MSDCHEM\1\DATA\S060422\S060541.D
3	3	4	40	C:\MSDCHEM\1\DATA\S060422\S060542.D
4	4	10	40	C:\MSDCHEM\1\DATA\S060422\S060543.D
5	5	25	40	C:\MSDCHEM\1\DATA\S060422\S060544.D
6	6	50	40	C:\MSDCHEM\1\DATA\S060422\S060545.D
7	7	70	40	C:\MSDCHEM\1\DATA\S060422\S060546.D
8	8	100	40	C:\MSDCHEM\1\DATA\S060422\S060547.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Apr 23 09:57 2006	Apr 23 09:52 2006	22 Apr 2006 5:10 pm
2	2	Apr 23 09:57 2006	Apr 23 09:48 2006	22 Apr 2006 5:44 pm
3	3	Apr 23 09:58 2006	Apr 23 09:44 2006	22 Apr 2006 6:17 pm
4	4	Apr 23 09:58 2006	Apr 23 09:38 2006	22 Apr 2006 6:51 pm
5	5	Apr 23 09:58 2006	Apr 23 09:23 2006	22 Apr 2006 7:25 pm
6	6	Apr 23 09:59 2006	Apr 23 09:25 2006	22 Apr 2006 7:59 pm
7	7	Apr 23 09:59 2006	Apr 23 09:28 2006	22 Apr 2006 8:33 pm
8	8	Apr 23 10:00 2006	Apr 23 09:33 2006	22 Apr 2006 9:07 pm

BA060422.M Sun Apr 23 10:18:54 2006

4/23/06

4/26/06

DATA ANALYSIS PARAMETERS

Method Name: C:\MSDCHEM\1\METHODS\BA060422.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: Meth Default

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search	Minimum Quality
C:\Database\NIST98.L	0

Integration Events: Meth Default

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

MS10 EPA Method 625/8270C
Calibration Last Updated: Sun Apr 23 10:18:33 2006

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

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1) 1,4-Dichlorobenzene-d4 (ISTD TR)

Ret. Time 5.62 min., Extract & Integrate from 5.32 to 5.92 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	152.00			*** METH DEFAULT ***
Q1	150.00	158.90	20.0	*** METH DEFAULT ***
Q2	115.00	59.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	167150
2		40.000	169917
3		40.000	176045
4		40.000	214014
5		40.000	192610
6		40.000	162706
7		40.000	163307
8		40.000	182668

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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2) 1,4-Dioxane ( )

Ret. Time 2.43 min., Extract & Integrate from 2.13 to 2.73 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	88.10			*** METH DEFAULT ***
Q1	58.00	61.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	1807
2		2.000	3928
3		4.000	10227
4		10.000	28983
5		25.000	67704
6		50.000	123149
7		70.000	171822
8		100.000	256092

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

3) N-Nitrosodimethylamine ( )

Ret. Time 2.73 min., Extract & Integrate from 2.44 to 3.04 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	42.10			*** METH DEFAULT ***
Q1	74.10	115.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	3755
3		4.000	8303
4		10.000	26816

6	50.000	121849
7	70.000	173518
8	100.000	280885

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

4) Pyridine ( )

Ret. Time 2.75 min., Extract & Integrate from 2.45 to 3.05 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	79.10			*** METH DEFAULT ***
Q1	52.00	62.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	11504
3		4.000	24109
4		10.000	73922
5		25.000	174940
6		50.000	316647
7		70.000	441799
8		100.000	676891

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

5) PGMEA ( )

Ret. Time 4.00 min., Extract & Integrate from 3.70 to 4.30 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	43.00			*** METH DEFAULT ***
Q1	58.10	10.00	20.0	*** METH DEFAULT ***
Q2	72.10	18.20	20.0	*** METH DEFAULT ***
Q3	87.10	6.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	5944
3		4.000	12545
4		10.000	39920
5		25.000	94472
6		50.000	170208
7		70.000	243944
8		100.000	381384

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

6) 2-Fluorophenol ( )

Ret. Time 4.08 min., Extract & Integrate from 3.78 to 4.38 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	112.00			*** METH DEFAULT ***
Q1	64.00	52.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	8912
3		4.000	19079
4		10.000	61198
5		25.000	149242

7	70.000	371269
8	100.000	581724

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

7) Phenol-d5 ( )

Ret. Time 5.22 min., Extract & Integrate from 4.92 to 5.52 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	99.10			*** METH DEFAULT ***
Q1	71.10	27.40	20.0	*** METH DEFAULT ***
Q2	42.10	21.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	12072
3		4.000	24398
4		10.000	77490
5		25.000	188579
6		50.000	335584
7		70.000	476888
8		100.000	738720

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

8) Aniline ( )

Ret. Time 5.27 min., Extract & Integrate from 4.97 to 5.57 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	93.10			*** METH DEFAULT ***
Q1	66.10	35.90	20.0	*** METH DEFAULT ***
Q2	65.10	19.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	11281
3		4.000	25328
4		10.000	80193
5		25.000	185322
6		50.000	326350
7		70.000	459969
8		100.000	719217

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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9) Phenol ( )

Ret. Time 5.24 min., Extract & Integrate from 4.94 to 5.54 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	94.10			*** METH DEFAULT ***
Q1	66.10	28.10	20.0	*** METH DEFAULT ***
Q2	65.10	25.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	12592
3		4.000	27262
4		10.000	85726
5		25.000	203905

7	70.000	544991
8	100.000	848809

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

10) Bis(2-chloroethyl)ether ( )

Ret. Time 5.33 min., Extract & Integrate from 5.03 to 5.63 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 93.00			*** METH DEFAULT ***
Q1 63.00	77.60	20.0	*** METH DEFAULT ***
Q2 95.00	33.60	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	5133
2	2.000	11433
3	4.000	22422
4	10.000	69210
5	25.000	160653
6	50.000	283164
7	70.000	404881
8	100.000	620583

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

11) 2-Chlorophenol ( )

Ret. Time 5.40 min., Extract & Integrate from 5.10 to 5.70 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 128.00			*** METH DEFAULT ***
Q1 64.00	43.40	20.0	*** METH DEFAULT ***
Q2 130.00	32.70	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	4637
2	2.000	10705
3	4.000	22391
4	10.000	69128
5	25.000	162966
6	50.000	288346
7	70.000	410370
8	100.000	629286

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

12) 1,3-Dichlorobenzene ( )

Ret. Time 5.58 min., Extract & Integrate from 5.28 to 5.68 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	64.70	20.0	*** METH DEFAULT ***
Q2 111.00	38.00	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	5890
2	2.000	13671
3	4.000	26621
4	10.000	81873
5	25.000	190212

7	70.000	474801
8	100.000	744195

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

13) 1,4-Dichlorobenzene ( )

Ret. Time 5.64 min., Extract & Integrate from 5.54 to 5.94 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	64.40	20.0	*** METH DEFAULT ***
Q2 111.00	37.60	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	6337
2	2.000	13650
3	4.000	27819
4	10.000	83377
5	25.000	193081
6	50.000	340009
7	70.000	481515
8	100.000	749737

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

14) Benzyl alcohol ( )

Ret. Time 5.83 min., Extract & Integrate from 5.53 to 6.13 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 108.10			*** METH DEFAULT ***
Q1 79.10	117.30	20.0	*** METH DEFAULT ***
Q2 77.00	76.20	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	not used for this compound	
2	2.000	5185
3	4.000	11356
4	10.000	39962
5	25.000	96886
6	50.000	166140
7	70.000	239725
8	100.000	378949

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

15) 1,2-Dichlorobenzene ( )

Ret. Time 5.89 min., Extract & Integrate from 5.59 to 6.19 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	64.60	20.0	*** METH DEFAULT ***
Q2 111.00	39.50	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	5793
2	2.000	12861
3	4.000	26203
4	10.000	79577
5	25.000	183948

7	70.000	458828
8	100.000	704980

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

16) N-Methyl pyrrolidine (NMP) ( )

Ret. Time 5.96 min., Extract & Integrate from 5.66 to 6.26 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 99.10			*** METH DEFAULT ***
Q1 98.10	72.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	11218
4		10.000	40474
5		25.000	99072
6		50.000	178179
7		70.000	250648
8		100.000	363589

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

17) 2-Methylphenol ( )

Ret. Time 6.01 min., Extract & Integrate from 5.71 to 6.31 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 108.10			*** METH DEFAULT ***
Q1 107.10	89.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	9687
3		4.000	20316
4		10.000	64445
5		25.000	150214
6		50.000	265507
7		70.000	369027
8		100.000	574614

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

18) Bis(2-chloroisopropyl)ether ( )

Ret. Time 6.02 min., Extract & Integrate from 5.72 to 6.32 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 45.10			*** METH DEFAULT ***
Q1 77.00	15.20	20.0	*** METH DEFAULT ***
Q2 121.10	21.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	2593
3		4.000	5165
4		10.000	15470
5		25.000	36270
6		50.000	67652
7		70.000	97166

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

19) N-Nitrosodi-n-propylamine ( )

Ret. Time 6.21 min., Extract & Integrate from 5.91 to 6.51 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 70.10			*** METH DEFAULT ***
Q1 43.10	101.00	20.0	*** METH DEFAULT ***
Q2 130.10	23.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	8219
3		4.000	17415
4		10.000	55279
5		25.000	131952
6		50.000	233205
7		70.000	328495
8		100.000	515732

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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20) Hexachloroethane ( )

Ret. Time 6.28 min., Extract & Integrate from 5.98 to 6.58 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 116.90			*** METH DEFAULT ***
Q1 200.90	75.90	20.0	*** METH DEFAULT ***
Q2 198.90	48.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2480
2		2.000	5217
3		4.000	10936
4		10.000	33180
5		25.000	77467
6		50.000	139526
7		70.000	195433
8		100.000	303462

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

21) 3- and 4-Methylphenol Coelution ( )

Ret. Time 6.19 min., Extract & Integrate from 5.89 to 6.49 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 107.10			*** METH DEFAULT ***
Q1 108.10	80.80	20.0	*** METH DEFAULT ***
Q2 77.10	25.90	20.0	*** METH DEFAULT ***
Q3 79.10	18.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		4.000	11536
3		8.000	24201
4		20.000	80084
5		50.000	192474
6		100.000	337250

8	200.000	735868

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

22) Naphthalene-d8 (ISTD TR)

Ret. Time 7.27 min., Extract & Integrate from 6.97 to 7.57 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 136.10			*** METH DEFAULT ***
Q1 137.00	10.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	648901
2		40.000	650849
3		40.000	686537
4		40.000	824107
5		40.000	741110
6		40.000	640753
7		40.000	641303
8		40.000	698398

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

23) Nitrobenzene-d5 ( )

Ret. Time 6.37 min., Extract & Integrate from 6.07 to 6.67 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 82.10			*** METH DEFAULT ***
Q1 128.10	47.10	20.0	*** METH DEFAULT ***
Q2 54.10	48.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	4576
2		2.000	11118
3		4.000	23084
4		10.000	74031
5		25.000	175441
6		50.000	308892
7		70.000	441493
8		100.000	676637

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

24) Nitrobenzene ( )

Ret. Time 6.40 min., Extract & Integrate from 6.10 to 6.70 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 77.00			*** METH DEFAULT ***
Q1 123.00	51.40	20.0	*** METH DEFAULT ***
Q2 51.00	50.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5318
2		2.000	12500
3		4.000	26060
4		10.000	83735
5		25.000	195334
6		50.000	346399
7		70.000	482031

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

25) Isophorone ( )

Ret. Time 6.69 min., Extract & Integrate from 6.39 to 6.99 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	82.10			*** METH DEFAULT ***
Q1	138.10	18.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	8771
2		2.000	20547
3		4.000	43253
4		10.000	140438
5		25.000	331915
6		50.000	590647
7		70.000	837757
8		100.000	1273695

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

26) 2-Nitrophenol ( )

Ret. Time 6.81 min., Extract & Integrate from 6.51 to 7.11 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	139.00			*** METH DEFAULT ***
Q1	65.00	44.60	20.0	*** METH DEFAULT ***
Q2	109.00	17.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	4679
3		4.000	10579
4		10.000	37734
5		25.000	83646
6		50.000	150966
7		70.000	215115
8		100.000	327329

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

27) 2,4-Dimethylphenol ( )

Ret. Time 6.86 min., Extract & Integrate from 6.56 to 7.16 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	122.10			*** METH DEFAULT ***
Q1	107.10	106.00	20.0	*** METH DEFAULT ***
Q2	121.10	57.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3872
2		2.000	8791
3		4.000	18830
4		10.000	58645
5		25.000	137678
6		50.000	247435
7		70.000	346027
8		100.000	533054

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

28) Bis(2-chloroethoxy)methane ( )

Ret. Time 6.98 min., Extract & Integrate from 6.68 to 7.28 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 93.00			*** METH DEFAULT ***
Q1 63.00	69.50	20.0	*** METH DEFAULT ***
Q2 123.00	12.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	4698
2		2.000	11088
3		4.000	24160
4		10.000	74713
5		25.000	175454
6		50.000	312379
7		70.000	439036
8		100.000	666458

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

29) 2,4-Dichlorophenol ( )

Ret. Time 7.11 min., Extract & Integrate from 6.81 to 7.41 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 162.00			*** METH DEFAULT ***
Q1 164.00	64.50	20.0	*** METH DEFAULT ***
Q2 98.00	33.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	8172
3		4.000	17163
4		10.000	56013
5		25.000	136267
6		50.000	244756
7		70.000	343211
8		100.000	529200

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

30) 1,2,4-Trichlorobenzene ( )

Ret. Time 7.21 min., Extract & Integrate from 6.91 to 7.51 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 179.90			*** METH DEFAULT ***
Q1 181.90	95.70	20.0	*** METH DEFAULT ***
Q2 145.00	28.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	4624
2		2.000	10870
3		4.000	21758
4		10.000	66739
5		25.000	152544
6		50.000	271777
7		70.000	385601
8		100.000	590755

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

31) Benzoic acid ( )

Ret. Time 7.06 min., Extract & Integrate from 6.76 to 7.36 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	122.10			*** METH DEFAULT ***
Q1	105.00	117.20	20.0	*** METH DEFAULT ***
Q2	77.10	84.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	4182
4		10.000	27582
5		25.000	94222
6		50.000	178695
7		70.000	252892
8		100.000	382200

Qualifier Peak Analysis ON
Curve Fit: Linear

---

32) Naphthalene ( )

Ret. Time 7.30 min., Extract & Integrate from 7.00 to 7.60 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	128.10			*** METH DEFAULT ***
Q1	129.10	11.50	20.0	*** METH DEFAULT ***
Q2	127.10	13.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	14340
2		2.000	32037
3		4.000	66097
4		10.000	197594
5		25.000	458545
6		50.000	813066
7		70.000	1148823
8		100.000	1762872

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

33) 4-Chloroaniline ( )

Ret. Time 7.40 min., Extract & Integrate from 7.10 to 7.70 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	127.00			*** METH DEFAULT ***
Q1	129.00	31.80	20.0	*** METH DEFAULT ***
Q2	65.00	27.00	20.0	*** METH DEFAULT ***
Q3	92.10	14.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	9401
3		4.000	21921
4		10.000	59393
5		25.000	122090
6		50.000	232334
7		70.000	340134

8 100.000 609825

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

34) Hexachlorobutadiene ( )

Ret. Time 7.52 min., Extract & Integrate from 7.22 to 7.82 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	224.90			*** METH DEFAULT ***
Q1	222.90	61.30	20.0	*** METH DEFAULT ***
Q2	226.80	64.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2964
2		2.000	6517
3		4.000	13349
4		10.000	39666
5		25.000	92539
6		50.000	165152
7		70.000	233421
8		100.000	355605

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

35) 4-Chloro-3-methylphenol ( )

Ret. Time 8.01 min., Extract & Integrate from 7.71 to 8.31 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	107.10			*** METH DEFAULT ***
Q1	142.00	92.80	20.0	*** METH DEFAULT ***
Q2	144.00	30.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	7587
3		4.000	16435
4		10.000	54800
5		25.000	132372
6		50.000	233861
7		70.000	338862
8		100.000	513878

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

36) 2-Methylnaphthalene ( )

Ret. Time 8.17 min., Extract & Integrate from 7.87 to 8.47 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	142.10			*** METH DEFAULT ***
Q1	141.10	87.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	9004
2		2.000	20599
3		4.000	43825
4		10.000	133285
5		25.000	304441
6		50.000	551568
7		70.000	782683
8		100.000	1202794

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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37) Acenaphthene-d10 (ISTD TR)

Ret. Time 9.53 min., Extract & Integrate from 9.23 to 9.83 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	164.20			*** METH DEFAULT ***
Q1	162.10	96.40	20.0	*** METH DEFAULT ***
Q2	160.10	41.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	363233
2		40.000	354838
3		40.000	392296
4		40.000	470133
5		40.000	413968
6		40.000	359555
7		40.000	356865
8		40.000	388915

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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38) Hexachlorocyclopentadiene ( )

Ret. Time 8.46 min., Extract & Integrate from 8.16 to 8.76 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	236.90			*** METH DEFAULT ***
Q1	234.90	63.60	20.0	*** METH DEFAULT ***
Q2	271.80	14.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	5622
3		4.000	13272
4		10.000	41277
5		25.000	98054
6		50.000	172184
7		70.000	241921
8		100.000	394108

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

39) 2,4,6-Trichlorophenol ( )

Ret. Time 8.57 min., Extract & Integrate from 8.27 to 8.67 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	93.90	20.0	*** METH DEFAULT ***
Q2	199.90	30.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	5669
3		4.000	12482
4		10.000	41764
5		25.000	96957
6		50.000	173677
7		70.000	250805
8		100.000	376557

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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40) 2,4,5-Trichlorophenol ( )

Ret. Time 8.62 min., Extract & Integrate from 8.52 to 8.92 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	94.90	20.0	*** METH DEFAULT ***
Q2	97.00	44.90	20.0	*** METH DEFAULT ***
Q3	132.00	26.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	5990
3		4.000	14247
4		10.000	45115
5		25.000	103114
6		50.000	192102
7		70.000	272741
8		100.000	410248

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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41) 2-Fluorobiphenyl ( )

Ret. Time 8.67 min., Extract & Integrate from 8.37 to 8.97 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	172.10			*** METH DEFAULT ***
Q1	171.10	36.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	9845
2		2.000	21616
3		4.000	46218
4		10.000	137982
5		25.000	325604
6		50.000	563713
7		70.000	802440
8		100.000	1211619

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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42) 2-Chloronaphthalene ( )

Ret. Time 8.79 min., Extract & Integrate from 8.49 to 9.09 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	162.00			*** METH DEFAULT ***
Q1	164.00	33.00	20.0	*** METH DEFAULT ***
Q2	127.10	36.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	8452
2		2.000	18740
3		4.000	40209
4		10.000	122899
5		25.000	284065
6		50.000	504073
7		70.000	720395
8		100.000	1088487

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

43) 2-Nitroaniline ( )

Ret. Time 8.97 min., Extract & Integrate from 8.68 to 9.28 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 65.00			*** METH DEFAULT ***
Q1 92.10	65.70	20.0	*** METH DEFAULT ***
Q2 138.10	117.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	9731
4		10.000	34107
5		25.000	82917
6		50.000	152773
7		70.000	216968
8		100.000	325566

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

44) Dimethylphthalate ( )

Ret. Time 9.23 min., Extract & Integrate from 8.93 to 9.53 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 163.10			*** METH DEFAULT ***
Q1 77.00	21.20	20.0	*** METH DEFAULT ***
Q2 194.10	5.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	8745
2		2.000	19824
3		4.000	44204
4		10.000	137309
5		25.000	311591
6		50.000	560345
7		70.000	797953
8		100.000	1189391

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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45) Acenaphthylene ( )

Ret. Time 9.33 min., Extract & Integrate from 9.03 to 9.63 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 152.10			*** METH DEFAULT ***
Q1 151.10	20.60	20.0	*** METH DEFAULT ***
Q2 153.10	13.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	12572
2		2.000	28562
3		4.000	62801
4		10.000	194801
5		25.000	440619
6		50.000	780080
7		70.000	1115119
8		100.000	1700420

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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46) 2,6-Dinitrotoluene ( )

Ret. Time 9.32 min., Extract & Integrate from 9.02 to 9.62 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 165.00			*** METH DEFAULT ***
Q1 63.00	68.00	20.0	*** METH DEFAULT ***
Q2 89.10	46.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	4035
3		4.000	9849
4		10.000	32455
5		25.000	77722
6		50.000	141587
7		70.000	204313
8		100.000	306415

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

47) 3-Nitroaniline ( )

Ret. Time 9.50 min., Extract & Integrate from 9.20 to 9.80 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 138.10			*** METH DEFAULT ***
Q1 92.10	101.00	20.0	*** METH DEFAULT ***
Q2 108.10	7.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	3222
3		4.000	8532
4		10.000	23189
5		25.000	56079
6		50.000	105742
7		70.000	150301
8		100.000	238727

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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48) Acenaphthene ( )

Ret. Time 9.56 min., Extract & Integrate from 9.26 to 9.86 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 154.10			*** METH DEFAULT ***
Q1 153.10	110.40	20.0	*** METH DEFAULT ***
Q2 152.10	51.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	8417
2		2.000	17558
3		4.000	36901
4		10.000	112828
5		25.000	254548
6		50.000	457410
7		70.000	642260
8		100.000	978978

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

49) 2,4-Dinitrophenol ( )

Ret. Time 9.62 min., Extract & Integrate from 9.32 to 9.92 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 184.00			*** METH DEFAULT ***
Q1 63.00	66.60	20.0	*** METH DEFAULT ***
Q2 154.00	34.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		not used for this compound	
4		20.000	33562
5		50.000	91166
6		100.000	173639
7		140.000	234883
8		200.000	354817

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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50) Dibenzofuran ( )

Ret. Time 9.77 min., Extract & Integrate from 9.47 to 10.07 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 168.10			*** METH DEFAULT ***
Q1 139.10	33.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	12482
2		2.000	26624
3		4.000	57247
4		10.000	173078
5		25.000	395310
6		50.000	704365
7		70.000	980484
8		100.000	1475706

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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51) 4-Nitrophenol ( )

Ret. Time 9.71 min., Extract & Integrate from 9.41 to 10.01 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 109.00			*** METH DEFAULT ***
Q1 65.10	197.80	20.0	*** METH DEFAULT ***
Q2 139.00	223.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		not used for this compound	
4		20.000	28945
5		50.000	77865
6		100.000	146377
7		140.000	208442
8		200.000	318530

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

52) 2,4-Dinitrotoluene ( )

Ret. Time 9.81 min., Extract & Integrate from 9.51 to 10.11 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	165.10			*** METH DEFAULT ***
Q1	63.00	43.40	20.0	*** METH DEFAULT ***
Q2	89.00	66.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	5142
3		4.000	12270
4		10.000	39513
5		25.000	93980
6		50.000	168488
7		70.000	237512
8		100.000	348311

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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53) Fluorene ( )

Ret. Time 10.20 min., Extract & Integrate from 9.90 to 10.50 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	166.10			*** METH DEFAULT ***
Q1	165.10	93.70	20.0	*** METH DEFAULT ***
Q2	167.10	13.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	9220
2		2.000	20200
3		4.000	45282
4		10.000	138413
5		25.000	313355
6		50.000	553655
7		70.000	782664
8		100.000	1175415

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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54) Diethylphthalate ( )

Ret. Time 10.12 min., Extract & Integrate from 9.82 to 10.42 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	177.10	21.90	20.0	*** METH DEFAULT ***
Q2	150.10	12.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	8684
2		2.000	19321
3		4.000	44021
4		10.000	137869
5		25.000	311326
6		50.000	555585
7		70.000	790235
8		100.000	1185036

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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55) 4-Chlorophenyl phenyl ether ( )

Ret. Time 10.19 min., Extract & Integrate from 9.89 to 10.49 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 204.00			*** METH DEFAULT ***
Q1 206.00	32.60	20.0	*** METH DEFAULT ***
Q2 141.10	50.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	4691
2		2.000	10789
3		4.000	22558
4		10.000	70037
5		25.000	159546
6		50.000	286300
7		70.000	405439
8		100.000	602842

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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56) 4-Nitroaniline ( )

Ret. Time 10.28 min., Extract & Integrate from 9.98 to 10.58 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 138.10			*** METH DEFAULT ***
Q1 65.00	98.50	20.0	*** METH DEFAULT ***
Q2 108.10	46.80	20.0	*** METH DEFAULT ***
Q3 92.10	43.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	7220
4		10.000	23085
5		25.000	56629
6		50.000	97864
7		70.000	143431
8		100.000	219270

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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57) Phenanthrene-d10 (ISTD TR)

Ret. Time 11.37 min., Extract & Integrate from 11.07 to 11.67 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 188.20			*** METH DEFAULT ***
Q1 187.00	9.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	603483
2		40.000	592872
3		40.000	676426
4		40.000	810087
5		40.000	696265
6		40.000	591804
7		40.000	595020
8		40.000	630601

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

58) 2-Methyl-4,6-dinitrophenol ( )

Ret. Time 10.32 min., Extract & Integrate from 10.02 to 10.62 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 198.00			*** METH DEFAULT ***
Q1 51.00	46.20	20.0	*** METH DEFAULT ***
Q2 105.00	40.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		not used for this compound	
4		10.000	23626
5		25.000	60145
6		50.000	110173
7		70.000	148932
8		100.000	223571

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

59) N-Nitrosodiphenylamine ( )

Ret. Time 10.35 min., Extract & Integrate from 10.05 to 10.65 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 169.10			*** METH DEFAULT ***
Q1 168.10	67.50	20.0	*** METH DEFAULT ***
Q2 167.10	35.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	6113
2		2.000	14193
3		4.000	32192
4		10.000	94343
5		25.000	215143
6		50.000	383060
7		70.000	535734
8		100.000	809161

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

60) Azobenzene ( )

Ret. Time 10.39 min., Extract & Integrate from 10.09 to 10.69 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 77.00			*** METH DEFAULT ***
Q1 51.00	29.80	20.0	*** METH DEFAULT ***
Q2 182.10	24.90	20.0	*** METH DEFAULT ***
Q3 105.10	15.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	10202
2		2.000	24035
3		4.000	54439
4		10.000	167925
5		25.000	376027
6		50.000	651379
7		70.000	942556
8		100.000	1587627

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

61) 2,4,6-Tribromophenol ( )

Ret. Time 10.52 min., Extract & Integrate from 10.22 to 10.82 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	329.80			*** METH DEFAULT ***
Q1	331.80	97.10	20.0	*** METH DEFAULT ***
Q2	141.00	34.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	6941
4		10.000	22940
5		25.000	54801
6		50.000	97977
7		70.000	138385
8		100.000	203253

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

62) 4-Bromophenyl phenyl ether ( )

Ret. Time 10.80 min., Extract & Integrate from 10.50 to 11.10 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	248.00			*** METH DEFAULT ***
Q1	250.00	97.00	20.0	*** METH DEFAULT ***
Q2	141.10	61.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2933
2		2.000	6457
3		4.000	14010
4		10.000	43578
5		25.000	99606
6		50.000	175179
7		70.000	248024
8		100.000	367499

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

63) Hexachlorobenzene ( )

Ret. Time 10.98 min., Extract & Integrate from 10.68 to 11.28 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	283.80			*** METH DEFAULT ***
Q1	141.90	35.60	20.0	*** METH DEFAULT ***
Q2	248.90	26.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3258
2		2.000	6761
3		4.000	15897
4		10.000	48216
5		25.000	106613
6		50.000	186990
7		70.000	263818
8		100.000	393747

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

64) Pentachlorophenol ( )

Ret. Time 11.21 min., Extract & Integrate from 10.91 to 11.51 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	265.90			*** METH DEFAULT ***
Q1	263.90	62.20	20.0	*** METH DEFAULT ***
Q2	267.90	63.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		not used for this compound	
4		20.000	57025
5		50.000	140475
6		100.000	263647
7		140.000	366888
8		200.000	551809

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

65) Phenanthrene ( )

Ret. Time 11.40 min., Extract & Integrate from 11.10 to 11.70 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	178.10			*** METH DEFAULT ***
Q1	179.10	15.80	20.0	*** METH DEFAULT ***
Q2	176.10	18.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	13539
2		2.000	29420
3		4.000	65427
4		10.000	193303
5		25.000	426737
6		50.000	748000
7		70.000	1064282
8		100.000	1564274

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

66) Anthracene ( )

Ret. Time 11.45 min., Extract & Integrate from 11.15 to 11.75 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	178.10			*** METH DEFAULT ***
Q1	176.10	18.70	20.0	*** METH DEFAULT ***
Q2	179.10	15.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	12280
2		2.000	27236
3		4.000	62504
4		10.000	193360
5		25.000	419139
6		50.000	744041
7		70.000	1052658
8		100.000	1557554

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

67) Carbazole ( )

Ret. Time 11.66 min., Extract & Integrate from 11.36 to 11.96 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	167.10			*** METH DEFAULT ***
Q1	166.10	21.80	20.0	*** METH DEFAULT ***
Q2	139.10	12.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	9156
2		2.000	21986
3		4.000	52642
4		10.000	150087
5		25.000	308636
6		50.000	569395
7		70.000	836335
8		100.000	1287928

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

68) Di-n-butylphthalate ( )

Ret. Time 12.18 min., Extract & Integrate from 11.88 to 12.48 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	150.10	9.30	20.0	*** METH DEFAULT ***
Q2	104.00	4.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	12967
2		2.000	29928
3		4.000	71554
4		10.000	229322
5		25.000	518089
6		50.000	932605
7		70.000	1292720
8		100.000	1947897

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

69) Fluoranthene ( )

Ret. Time 13.07 min., Extract & Integrate from 12.77 to 13.37 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	202.10			*** METH DEFAULT ***
Q1	101.00	18.20	20.0	*** METH DEFAULT ***
Q2	203.10	17.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	13966
2		2.000	30941
3		4.000	72477
4		10.000	220446
5		25.000	495024
6		50.000	873247
7		70.000	1180369
8		100.000	1836540

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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70) Chrysene-d12 (ISTD TR)

Ret. Time 15.63 min., Extract & Integrate from 15.33 to 15.93 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	240.20			*** METH DEFAULT ***
Q1	120.10	19.20	20.0	*** METH DEFAULT ***
Q2	236.20	25.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	552271
2		40.000	539817
3		40.000	637028
4		40.000	758134
5		40.000	611504
6		40.000	487244
7		40.000	403171
8		40.000	551942

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

71) Benzidine ( )

Ret. Time 13.28 min., Extract & Integrate from 12.98 to 13.58 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	184.10			*** METH DEFAULT ***
Q1	92.10	14.00	20.0	*** METH DEFAULT ***
Q2	185.10	13.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		not used for this compound	
4		10.000	769
5		25.000	2708
6		50.000	11349
7		70.000	21587
8		100.000	67324

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

72) Pyrene ( )

Ret. Time 13.43 min., Extract & Integrate from 13.13 to 13.73 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	202.10			*** METH DEFAULT ***
Q1	200.10	20.40	20.0	*** METH DEFAULT ***
Q2	203.10	18.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	72783
4		10.000	224604
5		25.000	490110
6		50.000	864319
7		70.000	1158572
8		100.000	1837090

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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73) Terphenyl-d14 ( )

Ret. Time 13.69 min., Extract & Integrate from 13.39 to 13.99 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	244.20			*** METH DEFAULT ***
Q1	122.10	16.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	21974
3		4.000	51314
4		10.000	157740
5		25.000	342441
6		50.000	602735
7		70.000	796488
8		100.000	1280952

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

74) Butylbenzylphthalate ( )

Ret. Time 14.62 min., Extract & Integrate from 14.32 to 14.92 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	91.10	71.00	20.0	*** METH DEFAULT ***
Q2	206.10	18.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	27445
4		10.000	96799
5		25.000	218545
6		50.000	381684
7		70.000	486861
8		100.000	874350

Qualifier Peak Analysis ON
Curve Fit: Linear

---

75) Benz(a)anthracene ( )

Ret. Time 15.59 min., Extract & Integrate from 15.29 to 15.89 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	229.10	19.50	20.0	*** METH DEFAULT ***
Q2	226.10	26.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	13831
2		2.000	27769
3		4.000	65580
4		10.000	201484
5		25.000	425983
6		50.000	714020
7		70.000	831972
8		100.000	1634679

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

76) 3,3'-Dichlorobenzidine ( )

Ret. Time 15.58 min., Extract & Integrate from 15.28 to 15.88 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.00			*** METH DEFAULT ***
Q1	254.00	65.70	20.0	*** METH DEFAULT ***
Q2	126.00	16.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	6097
3		4.000	15508
4		10.000	25905
5		25.000	85501
6		50.000	151860
7		70.000	171081
8		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Linear

---

77) Chrysene ( )

Ret. Time 15.59 min., Extract & Integrate from 15.29 to 15.89 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	226.10	29.10	20.0	*** METH DEFAULT ***
Q2	229.10	19.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	12919
2		2.000	28100
3		4.000	64310
4		10.000	190517
5		25.000	394616
6		50.000	653138
7		70.000	754445
8		100.000	1459253

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

78) Bis(2-ethylhexyl)phthalate ( )

Ret. Time 15.79 min., Extract & Integrate from 15.49 to 16.09 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	167.10	28.20	20.0	*** METH DEFAULT ***
Q2	279.20	6.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	37235
4		10.000	134675
5		25.000	290208
6		50.000	499817
7		70.000	630170
8		100.000	1184340

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

79) Mirex ( )

Ret. Time 16.43 min., Extract & Integrate from 16.13 to 16.73 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	271.80			*** METH DEFAULT ***
Q1	236.90	57.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		1.000	2458
3		2.000	5839
4		5.000	18195
5		12.500	40153
6		25.000	69874
7		35.000	90380
8		50.000	157488

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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80) Perylene-d12 (ISTD)

Ret. Time 18.44 min., Extract & Integrate from 18.14 to 18.74 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	264.20			*** METH DEFAULT ***
Q1	260.20	23.70	20.0	*** METH DEFAULT ***
Q2	265.20	21.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	321471
2		40.000	311452
3		40.000	347882
4		40.000	386798
5		40.000	253657
6		40.000	191488
7		40.000	137611
8		40.000	273654

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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81) Di-n-octylphthalate ( )

Ret. Time 17.01 min., Extract & Integrate from 16.71 to 17.31 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	150.00	9.80	20.0	*** METH DEFAULT ***
Q2	167.10	1.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	49376
4		10.000	180467
5		25.000	396851
6		50.000	673204
7		70.000	795985
8		100.000	1850757

Qualifier Peak Analysis ON

Curve Fit: Avg. RF

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82) Benzo(b)fluoranthene ( )

Ret. Time 17.72 min., Extract & Integrate from 17.41 to 18.02 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	21.90	20.0	*** METH DEFAULT ***
Q2	125.10	18.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	23522
3		4.000	54417
4		10.000	152954
5		25.000	301887
6		50.000	453648
7		70.000	451544
8		100.000	1200166

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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83) Benzo(k)fluoranthene ( )

Ret. Time 17.77 min., Extract & Integrate from 17.47 to 18.07 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	22.20	20.0	*** METH DEFAULT ***
Q2	125.10	17.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	11791
2		2.000	23960
3		4.000	51437
4		10.000	155020
5		25.000	291985
6		50.000	424192
7		70.000	449995
8		100.000	1151618

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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84) Benzo(a)pyrene ( )

Ret. Time 18.33 min., Extract & Integrate from 18.03 to 18.63 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	21.90	20.0	*** METH DEFAULT ***
Q2	125.10	20.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	18505
3		4.000	42054
4		10.000	127823
5		25.000	241618
6		50.000	354463
7		70.000	364110
8		100.000	1002685

Qualifier Peak Analysis ON

Curve Fit: Avg. RF

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85) Indeno(1,2,3-c,d)pyrene ( )

Ret. Time 20.43 min., Extract & Integrate from 20.13 to 20.73 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.10	38.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	8606
2		2.000	17009
3		4.000	34662
4		10.000	100601
5		25.000	182470
6		50.000	289360
7		70.000	300742
8		100.000	859598

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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86) Dibenz(a,h)anthracene ( )

Ret. Time 20.47 min., Extract & Integrate from 20.17 to 20.77 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	278.10			*** METH DEFAULT ***
Q1	139.10	29.90	20.0	*** METH DEFAULT ***
Q2	279.10	25.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	6509
2		2.000	12373
3		4.000	26000
4		10.000	75973
5		25.000	141250
6		50.000	218982
7		70.000	229033
8		100.000	669907

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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87) Benzo(g,h,i)perylene ( )

Ret. Time 20.97 min., Extract & Integrate from 20.67 to 21.27 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.10	38.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	7349
2		2.000	14529
3		4.000	29091
4		10.000	79023
5		25.000	139194
6		50.000	225912
7		70.000	236231
8		100.000	641438

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Sun Apr 23 10:18:59 2006

Response Factor Report MSS

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

Calibration Files
1 =S060540.D 2 =S060541.D 3 =S060542.D
4 =S060543.D 5 =S060544.D 6 =S060545.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------	ISTD	----------					
2)	N	1,4-Dioxane	0.432	0.462	0.581	0.542	0.562	0.606	0.543	11.67
3)	T	N-Nitrosodimeth		0.442	0.472	0.501	0.537	0.599	0.539	12.99
4)	T	Pyridine		1.354	1.369	1.382	1.453	1.557	1.449	5.78
5)	N	PGMEA		0.700	0.713	0.746	0.785	0.837	0.781	8.07
6)	S	2-Fluorophenol		1.049	1.084	1.144	1.240	1.304	1.199	8.82
7)	S	Phenol-d5		1.421	1.386	1.448	1.567	1.650	1.537	7.59
8)	T	Aniline		1.328	1.439	1.499	1.539	1.605	1.513	6.73
9)	CMT	Phenol		1.482	1.549	1.602	1.694	1.769	1.695	9.41#
10)	T	Bis(2-chloroeth	1.228	1.346	1.274	1.294	1.335	1.392	1.330	4.70
11)	MT	2-Chlorophenol	1.110	1.260	1.272	1.292	1.354	1.418	1.315	8.04
12)	T	1,3-Dichloroben	1.410	1.609	1.512	1.530	1.580	1.649	1.573	5.39
13)	CMT	1,4-Dichloroben	1.516	1.607	1.580	1.558	1.604	1.672	1.608	3.55#
14)	T	Benzyl alcohol		0.610	0.645	0.747	0.805	0.817	0.756	12.31
15)	T	1,2-Dichloroben	1.386	1.514	1.488	1.487	1.528	1.594	1.518	4.55
16)	N	N-Methyl pyrrol			0.637	0.756	0.823	0.876	0.794	11.33
17)	T	2-Methylphenol		1.140	1.154	1.205	1.248	1.305	1.229	5.26
18)	T	Bis(2-chloroiso		0.305	0.293	0.289	0.301	0.333	0.312	6.36
19)	PMT	N-Nitrosodi-n-p		0.967	0.989	1.033	1.096	1.147	1.073	7.09
20)	T	Hexachloroethan	0.593	0.614	0.621	0.620	0.644	0.686	0.641	5.35
21)	T	3- and 4-Methyl		0.679	0.687	0.748	0.799	0.829	0.768	8.36
22)	I	Naphthalene-d8	----------	ISTD	----------					
23)	S	Nitrobenzene-d5	0.282	0.342	0.336	0.359	0.379	0.386	0.358	10.46
24)	T	Nitrobenzene	0.328	0.384	0.380	0.406	0.422	0.432	0.400	8.85
25)	T	Isophorone	0.541	0.631	0.630	0.682	0.717	0.737	0.677	10.55
26)	CT	2-Nitrophenol		0.144	0.154	0.183	0.181	0.188	0.176	10.71#
27)	T	2,4-Dimethylphe	0.239	0.270	0.274	0.285	0.297	0.309	0.286	8.52
28)	T	Bis(2-chloroeth	0.290	0.341	0.352	0.363	0.379	0.390	0.361	9.42
29)	CT	2,4-Dichlorophe		0.251	0.250	0.272	0.294	0.306	0.283	8.88#
30)	MT	1,2,4-Trichloro	0.285	0.334	0.317	0.324	0.329	0.339	0.326	5.77
31)	T	Benzoic acid			0.061	0.134	0.203	0.223	0.178	37.56
32)	T	Naphthalene	0.884	0.984	0.963	0.959	0.990	1.015	0.979	4.58
33)	T	4-Chloroaniline		0.289	0.319	0.288	0.264	0.290	0.300	9.10
34)	CT	Hexachlorobutad	0.183	0.200	0.194	0.193	0.200	0.206	0.198	4.18#
35)	CMT	4-Chloro-3-meth		0.233	0.239	0.266	0.286	0.292	0.273	10.12#
36)	T	2-Methylnaphtha	0.555	0.633	0.638	0.647	0.657	0.689	0.651	7.06
37)	I	Acenaphthene-d10	----------	ISTD	----------					
38)	PT	Hexachlorocyclo		0.317	0.338	0.351	0.379	0.383	0.366	8.54
39)	CT	2,4,6-Trichloro		0.320	0.318	0.355	0.375	0.386	0.363	9.21#
40)	T	2,4,5-Trichloro		0.338	0.363	0.384	0.399	0.427	0.396	9.21
41)	S	2-Fluorobipheny	1.084	1.218	1.178	1.174	1.258	1.254	1.212	5.35
42)	T	2-Chloronaphtha	0.931	1.056	1.025	1.046	1.098	1.122	1.069	6.62
43)	T	2-Nitroaniline			0.248	0.290	0.320	0.340	0.313	12.09
44)	T	Dimethylphthala	0.963	1.117	1.127	1.168	1.204	1.247	1.166	8.51
45)	T	Acenaphthylene	1.384	1.610	1.601	1.657	1.703	1.736	1.653	7.68
46)	T	2,6-Dinitrotolu		0.227	0.251	0.276	0.300	0.315	0.287	12.96
47)	T	3-Nitroaniline		0.182	0.217	0.197	0.217	0.235	0.219	10.72
48)	CMT	Acenaphthene	0.927	0.990	0.941	0.960	0.984	1.018	0.982	3.72#
49)	PT	2,4-Dinitrophen				0.143	0.176	0.193	0.177	11.27
50)	T	Dibenzofuran	1.375	1.501	1.459	1.473	1.528	1.567	1.499	4.27

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 10:18:33 2006
Response via : Initial Calibration

Calibration Files
1 =S060540.D 2 =S060541.D 3 =S060542.D
4 =S060543.D 5 =S060544.D 6 =S060545.D

		Compound	1	2	3	4	5	6	Avg	%RSD
51)	PMT	4-Nitrophenol				0.123	0.150	0.163	0.153	11.77
52)	MT	2,4-Dinitrotolu		0.290	0.313	0.336	0.363	0.375	0.345	9.76
53)	T	Fluorene	1.015	1.139	1.154	1.178	1.211	1.232	1.174	6.36
54)	T	Diethylphthalat	0.956	1.089	1.122	1.173	1.203	1.236	1.158	8.66
55)	T	4-Chlorophenyl	0.517	0.608	0.575	0.596	0.617	0.637	0.602	6.90
56)	T	4-Nitroaniline			0.184	0.196	0.219	0.218	0.212	8.44
57)	I	Phenanthrene-d10	----------	----------	ISTD	----------	----------	----------		
58)	T	2-Methyl-4,6-di				0.117	0.138	0.149	0.138	9.00
59)	CT	N-Nitrosodiphen	0.405	0.479	0.476	0.466	0.494	0.518	0.483	7.69#
60)	N	Azobenzene	0.676	0.811	0.805	0.829	0.864	0.881	0.847	11.20
61)	S	2,4,6-Tribromop			0.103	0.113	0.126	0.132	0.123	9.92
62)	T	4-Bromophenyl p	0.194	0.218	0.207	0.215	0.229	0.237	0.221	7.03
63)	T	Hexachlorobenze	0.216	0.228	0.235	0.238	0.245	0.253	0.240	5.49
64)	CMT	Pentachlorophen				0.141	0.161	0.178	0.166	9.46#
65)	T	Phenanthrene	0.897	0.992	0.967	0.954	0.981	1.011	0.977	3.99
66)	T	Anthracene	0.814	0.919	0.924	0.955	0.963	1.006	0.947	6.74
67)	N	Carbazole	0.607	0.742	0.778	0.741	0.709	0.770	0.746	8.87
68)	T	Di-n-butylphtha	0.859	1.010	1.058	1.132	1.191	1.261	1.123	12.45
69)	CT	Fluoranthene	0.926	1.044	1.071	1.089	1.138	1.180	1.093	7.52#
70)	I	Chrysene-d12	----------	----------	ISTD	----------	----------	----------		
71)	N	Benzidine				0.004	0.007	0.019	0.022	84.06
72)	MT	Pyrene			1.143	1.185	1.282	1.419	1.334	13.57
73)	S	Terphenyl-d14		0.814	0.806	0.832	0.896	0.990	0.914	12.71
74)	T	Butylbenzylphth			0.431	0.511	0.572	0.627	0.577	16.29
75)	T	Benz(a)anthrace	1.002	1.029	1.029	1.063	1.115	1.172	1.097	6.88
76)	T	3,3'-Dichlorobe		0.226	0.243	0.137	0.224	0.249	0.220	19.16
77)	T	Chrysene	0.936	1.041	1.010	1.005	1.033	1.072	1.028	4.37
78)	T	Bis(2-ethylhexy			0.585	0.711	0.759	0.821	0.771	14.62
79)	N	Mirex		0.182	0.183	0.192	0.210	0.229	0.212	13.14
80)	I	Perylene-d12	----------	----------	ISTD	----------	----------	----------		
81)	CT	Di-n-octylphtha			1.419	1.866	2.503	2.813	2.435	28.05#
82)	T	Benzo(b)fluoran		1.510	1.564	1.582	1.904	1.895	1.726	9.94
83)	T	Benzo(k)fluoran	1.467	1.539	1.479	1.603	1.842	1.772	1.657	9.62
84)	CT	Benzo(a)pyrene		1.188	1.209	1.322	1.524	1.481	1.386	10.41#
85)	T	Indeno(1,2,3-c,	1.071	1.092	0.996	1.040	1.151	1.209	1.133	8.67
86)	T	Dibenz(a,h)anth	0.810	0.795	0.747	0.786	0.891	0.915	0.859	9.98
87)	T	Benzo(g,h,i)per	0.914	0.933	0.836	0.817	0.878	0.944	0.905	6.25

(#) = Out of Range ### Number of calibration levels exceeded format ###

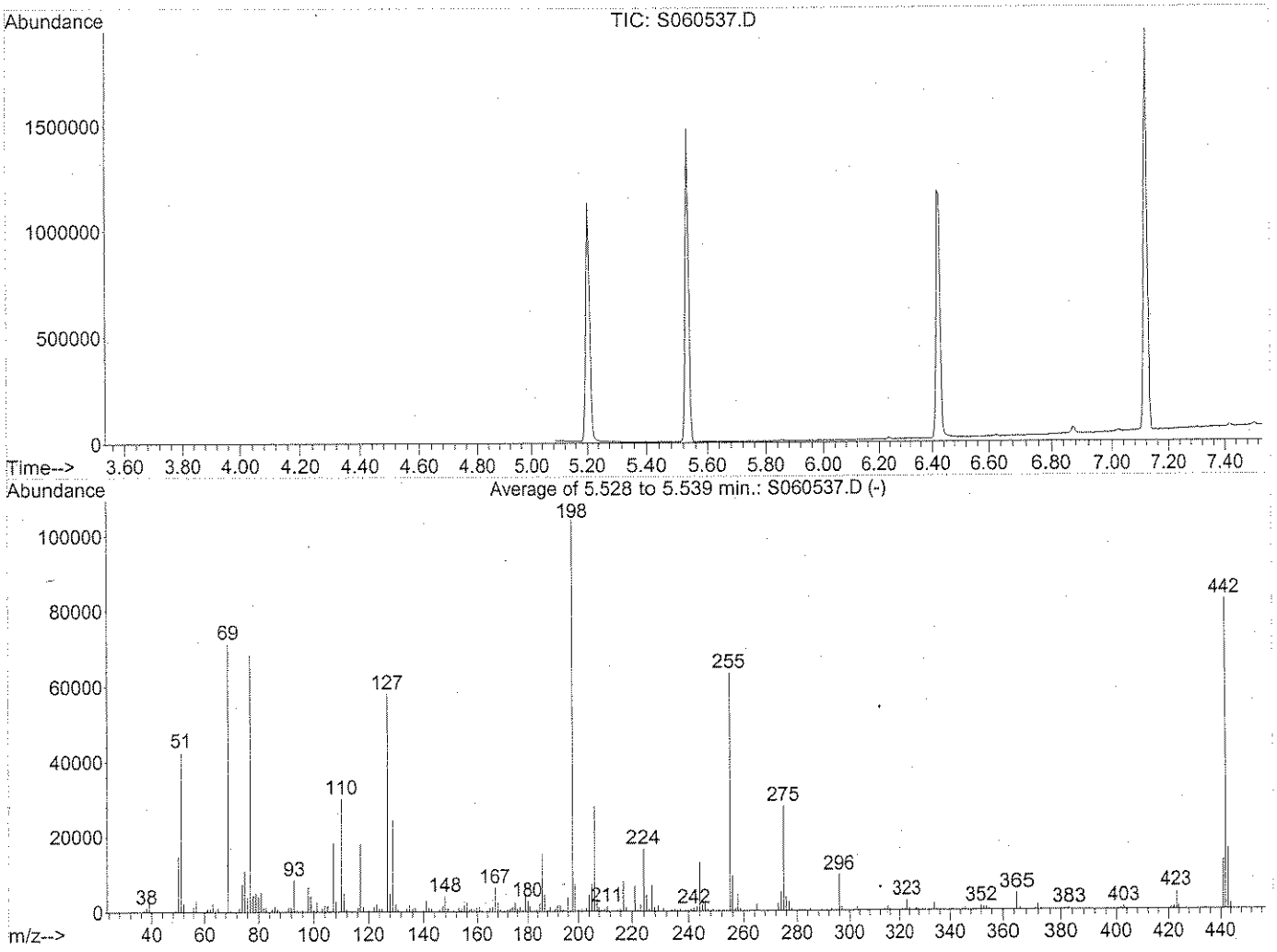
Directory: C:\MSDCHEM\1\DATA\S060422

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	S060537.d	1.	STUN0422	TUNE;;;;;;;23-MS-...	22 Apr 2006 14:47
2	2	S060538.d	1.	25PPM 8270 CCV	SSTD001;;;;;;;23-...	22 Apr 2006 15:03
3	3	S060539.d	1.	IB 8270 4/22/06		22 Apr 2006 16:36
4	4	S060540.d	1.	SSTD001	SSTD001;;;;;;;23-...	22 Apr 2006 17:10
5	5	S060541.d	1.	SSTD002	SSTD002;;;;;;;23-...	22 Apr 2006 17:44
6	6	S060542.d	1.	SSTD004	SSTD004;;;;;;;23-...	22 Apr 2006 18:17
7	7	S060543.d	1.	SSTD010	SSTD010;;;;;;;23-...	22 Apr 2006 18:51
8	8	S060544.d	1.	SSTD025	SSTD025;;;;;;;23-...	22 Apr 2006 19:25
9	9	S060545.d	1.	SSTD050	SSTD050;;;;;;;23-...	22 Apr 2006 19:59
10	10	S060546.d	1.	SSTD070	SSTD070;;;;;;;23-...	22 Apr 2006 20:33
11	11	S060547.d	1.	SSTD100	SSTD100;;;;;;;23-...	22 Apr 2006 21:07
12	12	S060548.d	1.	QCALTSTD 50PPM	QCALTSTD50;;;;;;;...	22 Apr 2006 21:40
13	13	S060549.d	1.	25PPM 8270 CCV	23-MS-43-13	22 Apr 2006 22:14
14	14	S060550.d	1.	S0328WA1LCS	S0328WA1LCS;06-03...	22 Apr 2006 22:47
15	15	S060551.d	1.	S0328WA1LCSD	S0328WA1LCSD;06-0...	22 Apr 2006 23:21
16	16	S060552.d	1.	S0331WA1	S0331WA1;06-03-31...	22 Apr 2006 23:55
17	17	S060553.d	1.	S0331WA1LCS	S0331WA1LCS;06-03...	23 Apr 2006 00:29
18	18	S060554.d	1.	S0331WA1LCSD	S0331WA1LCSD;06-0...	23 Apr 2006 01:03
19	19	S060555.d	1.	L0600544-002	;06-03-31;31-MAR-...	23 Apr 2006 01:37
20	20	S060556.d	1.	L0600544-003	;06-03-31;31-MAR-...	23 Apr 2006 02:11
21	21	S060557.d	1.	L0600544-004	;06-03-31;31-MAR-...	23 Apr 2006 02:44
22	22	S060558.d	1.	1PPM 8270 4/22/06		23 Apr 2006 03:18

E 4/24/06

DFTPP

Data File : C:\MSDCHEM\1\DATA\S060422\S060537.D Vial: 1
Acq On : 22 Apr 2006 2:47 pm Operator: SC
Sample : STUN0422 Inst : MSS
Misc : TUNE;;;;;;;23-MS-31-9 Multiplr: 1.00
MS Integration Params: events.e
Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS10 Tune Method



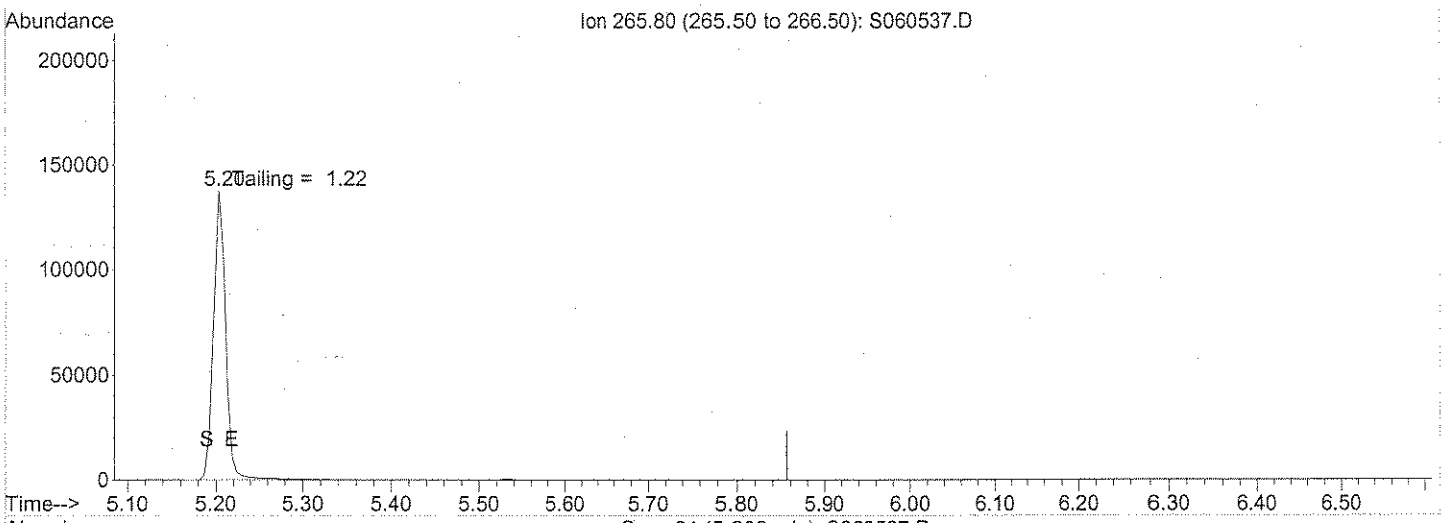
AutoFind: Scans 84, 85, 86; Background Corrected with Scan 74

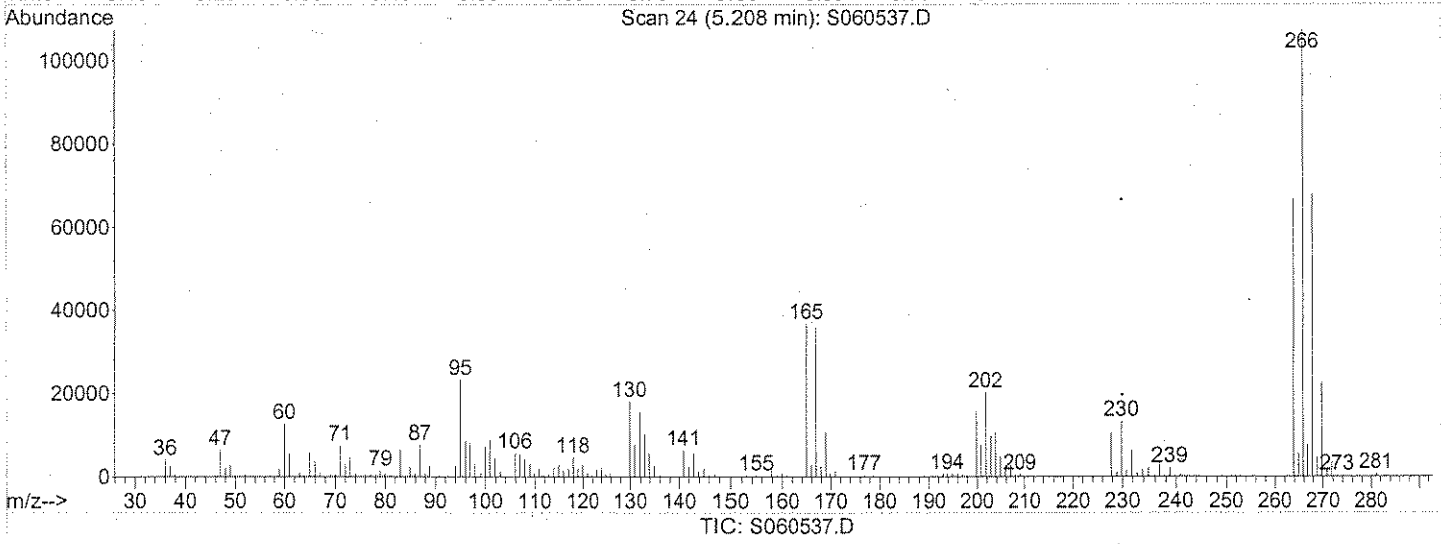
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	42688	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	68.4	71360	PASS
70	69	0.00	2	0.5	366	PASS
127	198	40	60	55.7	58146	PASS
197	198	0.00	1	0.2	235	PASS
198	198	100	100	100.0	104336	PASS
199	198	5	9	6.8	7043	PASS
275	198	10	30	26.8	27938	PASS
365	198	1	100	4.3	4478	PASS
441	443	0.01	100	80.9	13058	PASS
442	198	40	100	79.0	82448	PASS
443	442	17	23	19.6	16131	PASS

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060537.D Vial: 1
Acq On : 22 Apr 2006 2:47 pm Operator: SC
Sample : STUN0422 Inst : MSS
Misc : TUNE;;;;;;;23-MS-31-9 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Apr 24 8:34 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS10 Tune Method
Last Update : Fri Mar 10 08:11:06 2006
Response via : Single Level Calibration





(1) Pentachlorophenol

5.21min 0.00

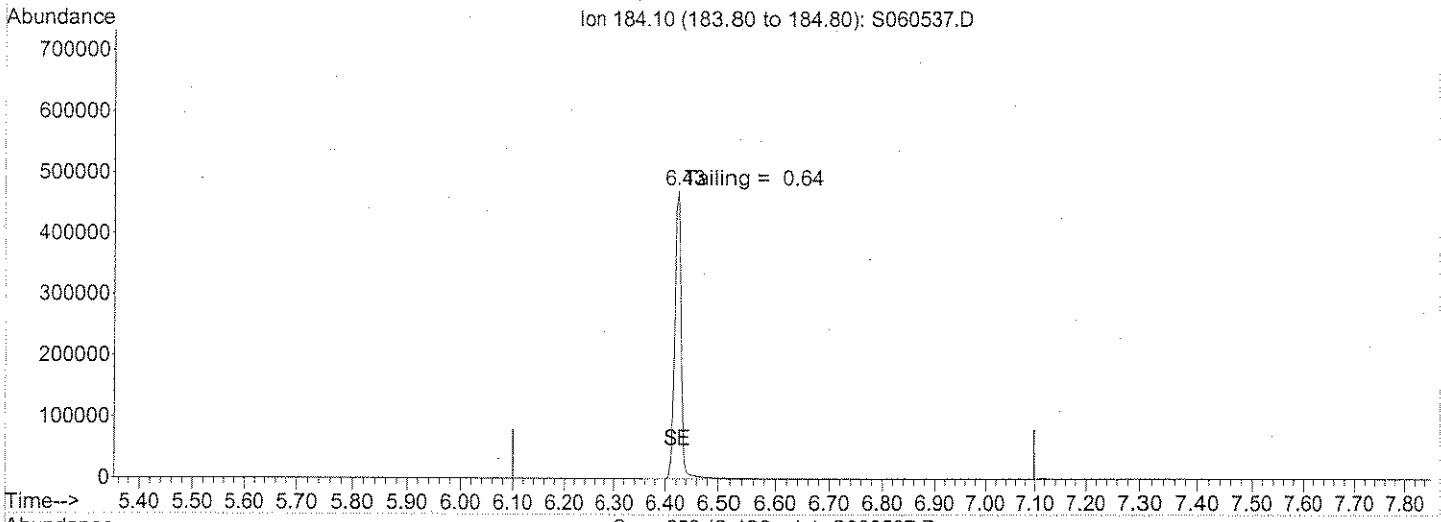
response 1307568

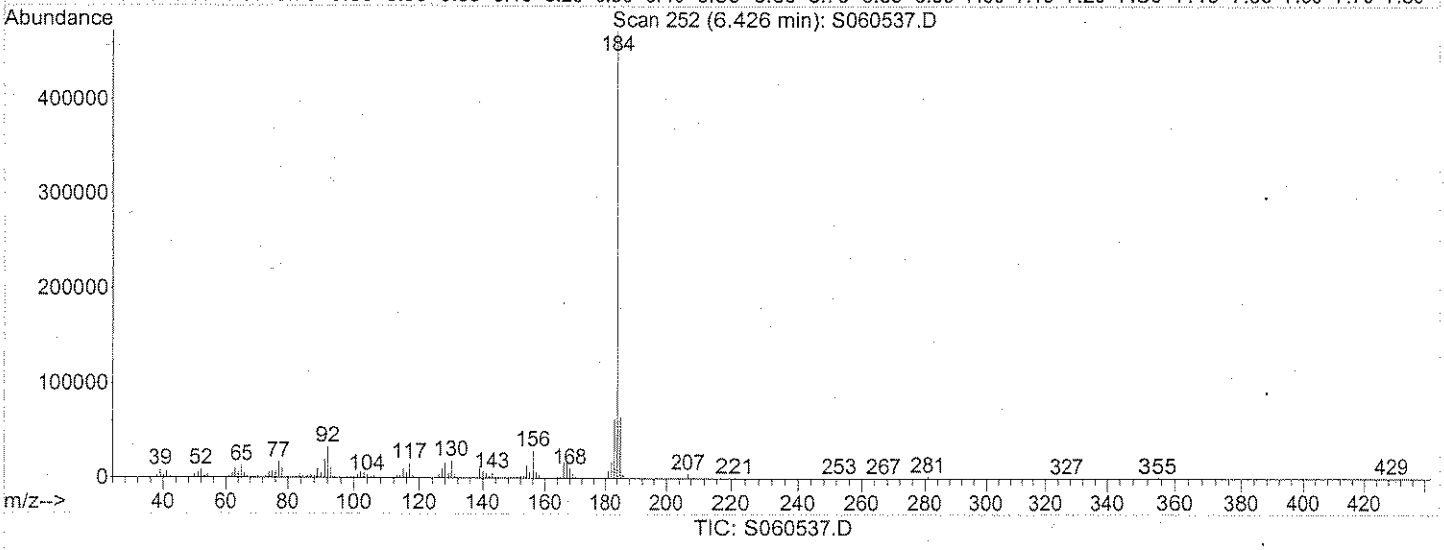
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060537.D Vial: 1
Acq On : 22 Apr 2006 2:47 pm Operator: SC
Sample : STUN0422 Inst : MSS
Misc : TUNE;;;;;;;23-MS-31-9 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Apr 24 8:34 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS10 Tune Method
Last Update : Fri Mar 10 08:11:06 2006
Response via : Single Level Calibration





TIC: S060537.D

(2) Benzidine

6.43min 0.00

response 4380329

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

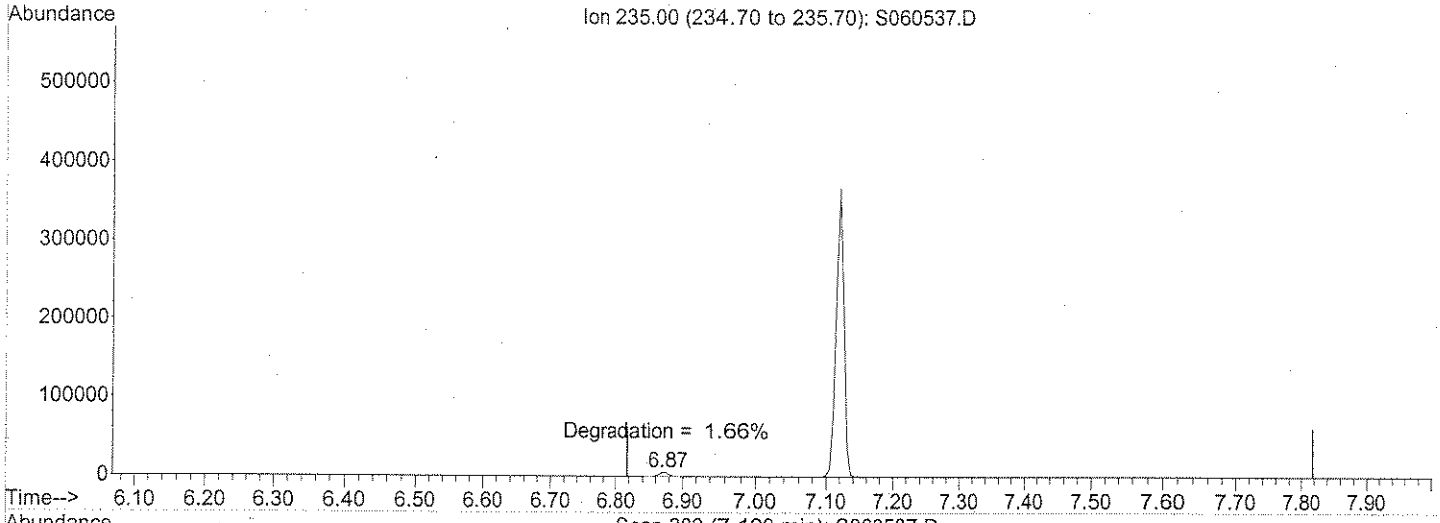
278

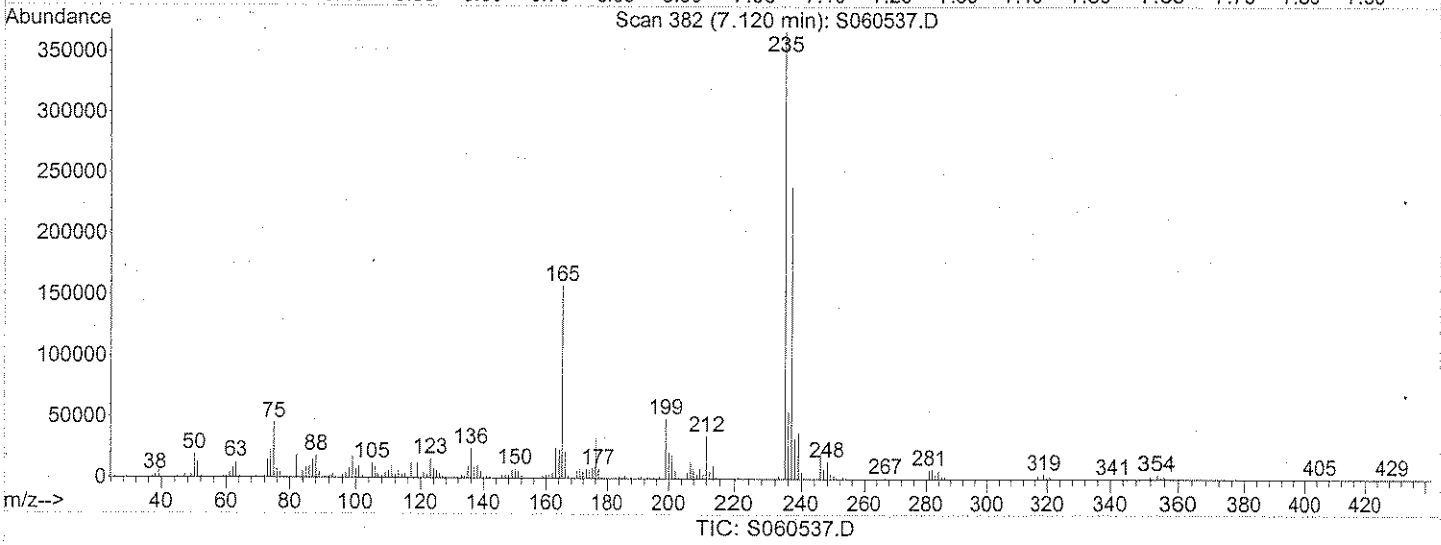
S060537.D TUNE.M Mon Apr 24 08:34:39 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060537.D Vial: 1
Acq On : 22 Apr 2006 2:47 pm Operator: SC
Sample : STUN0422 Inst : MSS
Misc : TUNE;;;;;;;23-MS-31-9 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Apr 24 8:34 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS10 Tune Method
Last Update : Fri Mar 10 08:11:06 2006
Response via : Single Level Calibration





TIC: S060537.D

(4) 4,4-DDT

7.12min 0.00

response 3032199

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060539.D Vial: 3
Acq On : 22 Apr 2006 4:36 pm Operator: SC
Sample : IB 8270 4/22/06 Inst : MSS
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:54:51 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E 4/23/06

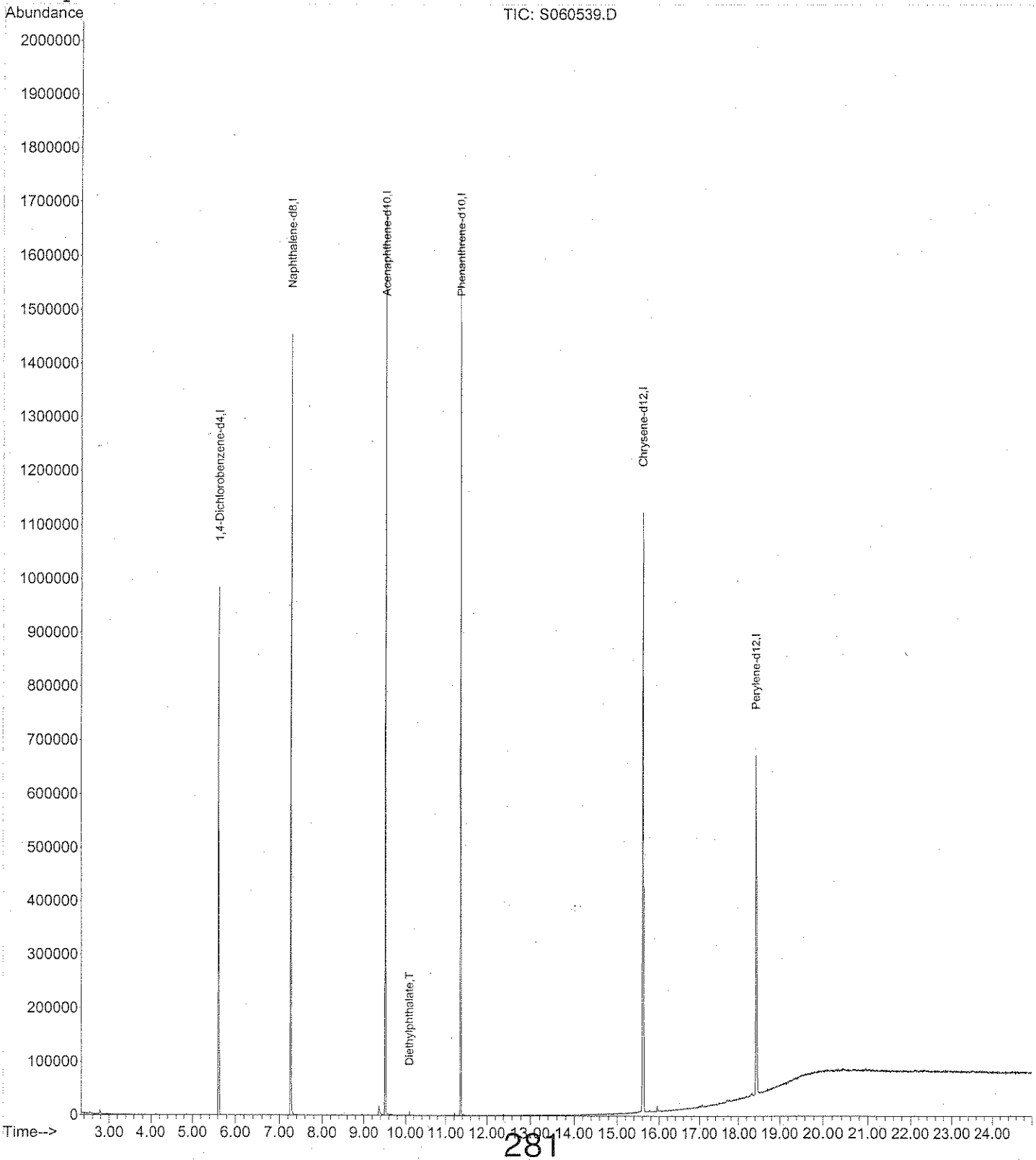
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	178310	40.00	mg/L	0.00
22) Naphthalene-d8	7.26	136	708524	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.51	164	402864	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	676799	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	622139	40.00	mg/L	-0.01
80) Perylene-d12	18.44	264	358930	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	0.00	112	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
7) Phenol-d5	0.00	99	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
23) Nitrobenzene-d5	0.00	82	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
41) 2-Fluorobiphenyl	0.00	172	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
61) 2,4,6-Tribromophenol	0.00	330	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
73) Terphenyl-d14	13.69	244	378	0.02	mg/L	0.00
Spiked Amount 50.000			Recovery =	0.04%		
Target Compounds						Qvalue
54) Diethylphthalate	10.10	149	3845	0.31	mg/L #	97

(#) = qualifier out of range (m) = manual integration
S060539.D BA060422.M Sun Apr 23 09:56:11 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060539.D Vial: 3
Acq On : 22 Apr 2006 4:36 pm Operator: SC
Sample : IB 8270 4/22/06 Inst : MSS
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:56 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060539.D Vial: 3
Acq On : 22 Apr 2006 4:36 pm Operator: SC
Sample : IB 8270 4/22/06 Inst : MSS
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:54:51 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

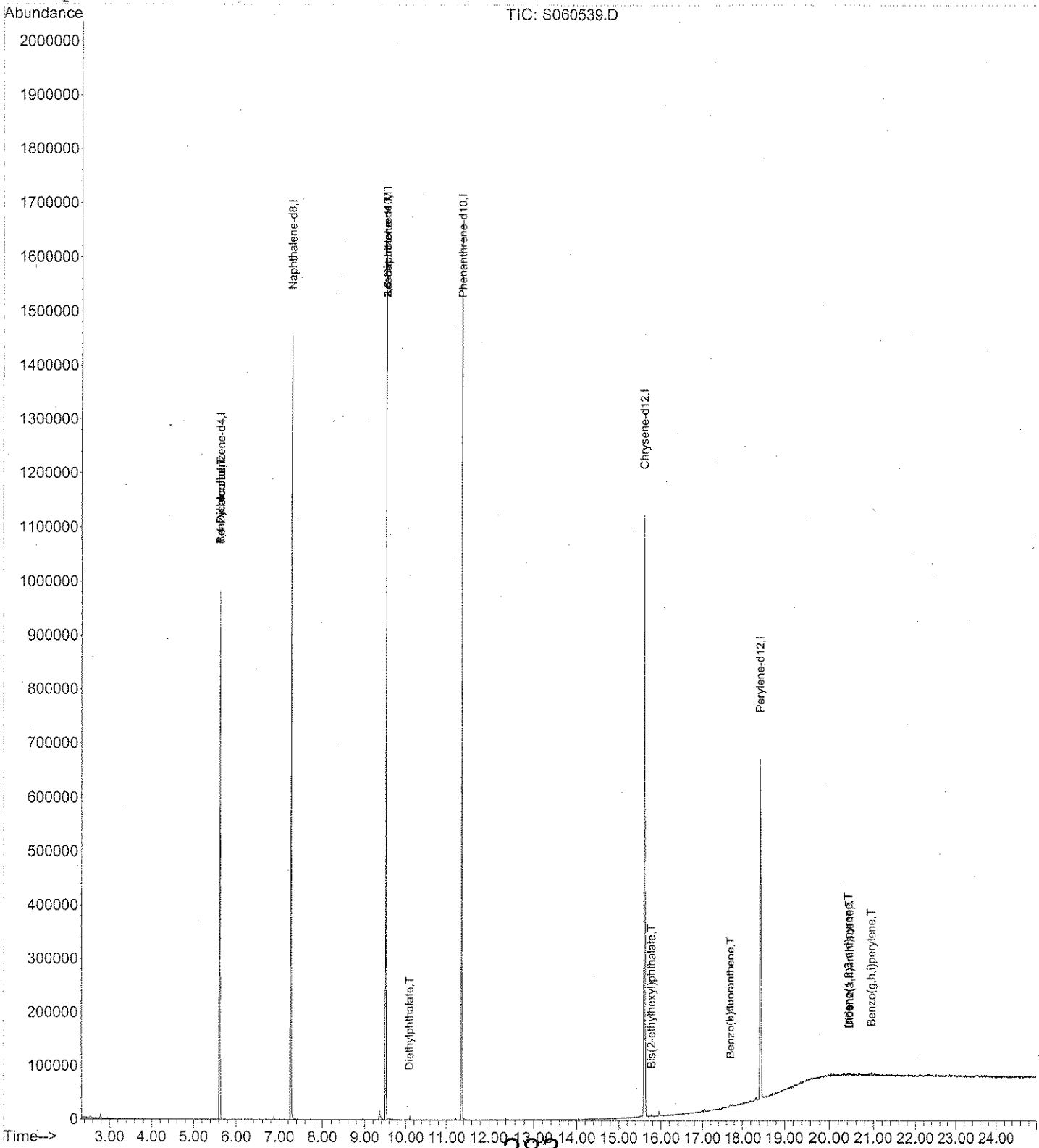
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	178310	40.00	mg/L	0.00
22) Naphthalene-d8	7.26	136	708524	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.51	164	402864	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	676799	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	622139	40.00	mg/L	-0.01
80) Perylene-d12	18.44	264	358930	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	0.00	112	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
7) Phenol-d5	0.00	99	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
23) Nitrobenzene-d5	0.00	82	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
41) 2-Fluorobiphenyl	0.00	172	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
61) 2,4,6-Tribromophenol	0.00	330	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
73) Terphenyl-d14	13.69	244	378	0.02	mg/L	0.00
Spiked Amount 50.000			Recovery =	0.04%		
Target Compounds						Qvalue
14) Benzyl alcohol	5.61	108	947	0.26	mg/L #	1
46) 2,6-Dinitrotoluene	9.51	165	52409	16.52	mg/L #	23
52) 2,4-Dinitrotoluene	9.51	165	37300	9.88	mg/L #	24
54) Diethylphthalate	10.10	149	3845	0.31	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	15.78	149	3020	0.24	mg/L #	76
82) Benzo(b)fluoranthene	17.70	252	4319	0.25	mg/L #	71
83) Benzo(k)fluoranthene	17.70	252	4319	0.27	mg/L #	70
85) Indeno(1,2,3-c,d)pyrene	20.43	276	2541	0.23	mg/L #	43
86) Dibenz(a,h)anthracene	20.46	278	1849	0.23	mg/L #	60
87) Benzo(g,h,i)perylene	20.96	276	2016	0.24	mg/L #	37

(#) = qualifier out of range (m) = manual integration
S060539.D BA060422.M Sun Apr 23 09:54:53 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060539.D Vial: 3
Acq On : 22 Apr 2006 4:36 pm Operator: SC
Sample : IB 8270 4/22/06 Inst : MSS
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:54 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:50:36 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E. 4/23/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	167150	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	648901	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	363233	40.00	mg/L	0.00
57) Phenanthrene-d10	11.36	188	603483	40.00	mg/L	0.00
70) Chrysene-d12	15.63	240	552271	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	321471	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.09	112	3328m	0.61	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.22%		
7) Phenol-d5	5.21	99	4748	0.69	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.38%		
23) Nitrobenzene-d5	6.38	82	4576	0.73	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.46%		
41) 2-Fluorobiphenyl	8.67	172	9845	0.86	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.72%		
61) 2,4,6-Tribromophenol	10.52	330	1253	0.63	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.26%		
73) Terphenyl-d14	13.69	244	9705	0.71	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.42%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	1807	0.88	mg/L #	50
3) N-Nitrosodimethylamine	2.76	42	1114	0.55	mg/L #	62
4) Pyridine	2.80	79	3535	0.69	mg/L #	29
5) PGMEA	4.01	43	2544	0.73	mg/L #	44
8) Aniline	5.28	93	4724	0.70	mg/L	98
9) Phenol	5.23	94	5935	0.80	mg/L	95
10) Bis(2-chloroethyl)ether	5.33	93	5133	0.88	mg/L #	72
11) 2-Chlorophenol	5.40	128	4637	0.78	mg/L	90
12) 1,3-Dichlorobenzene	5.58	146	5890	0.85	mg/L	96
13) 1,4-Dichlorobenzene	5.64	146	6337m	0.91	mg/L	
14) Benzyl alcohol	5.85	108	1960	0.57	mg/L #	71
15) 1,2-Dichlorobenzene	5.89	146	5793	0.87	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.97	99	1622	0.90	mg/L #	78
17) 2-Methylphenol	5.99	108	3996	0.73	mg/L	94
18) Bis(2-chloroisopropyl)ethe	6.02	45	717	0.52	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.20	70	3539	0.74	mg/L #	42
20) Hexachloroethane	6.28	117	2480	0.87	mg/L	91
21) 3- and 4-Methylphenol Coel	6.18	107	5031	0.73	mg/L	96
24) Nitrobenzene	6.40	77	5318	0.76	mg/L #	71
25) Isophorone	6.69	82	8771	0.73	mg/L	97
26) 2-Nitrophenol	6.82	139	1462	0.48	mg/L #	85
27) 2,4-Dimethylphenol	6.85	122	3872	0.77	mg/L	92
28) Bis(2-chloroethoxy)methane	6.98	93	4698	0.74	mg/L #	82
29) 2,4-Dichlorophenol	7.11	162	2963	0.60	mg/L	93
30) 1,2,4-Trichlorobenzene	7.21	180	4624	0.84	mg/L	99
31) Benzoic acid	6.85	122	3872	1.07	mg/L #	19
32) Naphthalene	7.29	128	14340	0.87	mg/L	99
33) 4-Chloroaniline	7.41	127	3349	0.71	mg/L #	94
34) Hexachlorobutadiene	7.52	225	2964	0.89	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:50:36 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

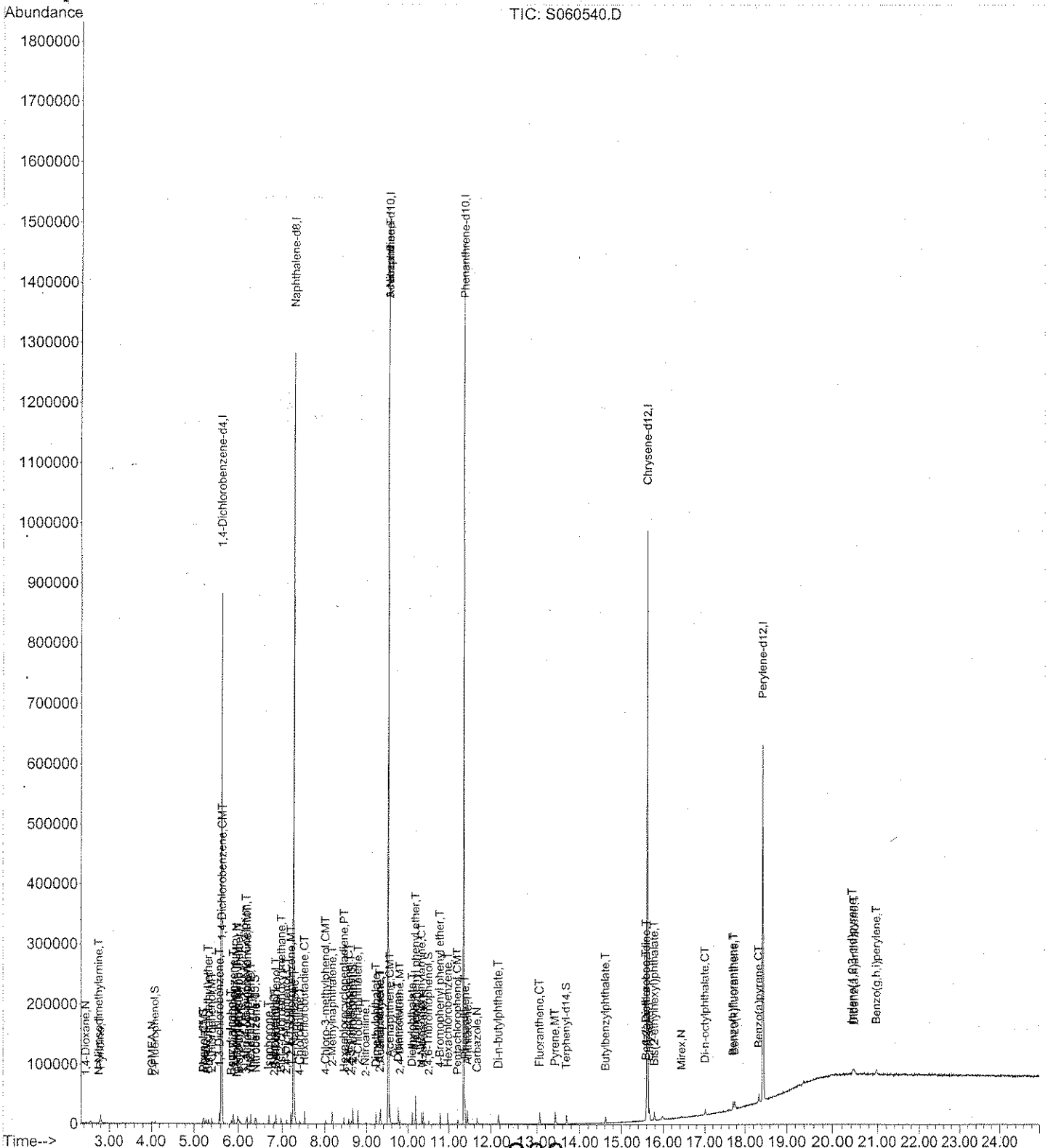
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.02	107	3130	0.66 mg/L	#	87
36)	2-Methylnaphthalene	8.18	142	9004	0.81 mg/L		99
38)	Hexachlorocyclopentadiene	8.46	237	2493	0.72 mg/L	#	92
39)	2,4,6-Trichlorophenol	8.57	196	2256	0.64 mg/L		90
40)	2,4,5-Trichlorophenol	8.63	196	2467	0.64 mg/L	#	93
42)	2-Chloronaphthalene	8.79	162	8452	0.83 mg/L		98
43)	2-Nitroaniline	8.98	65	1757	0.57 mg/L	#	81
44)	Dimethylphthalate	9.23	163	8745	0.77 mg/L	#	91
45)	Acenaphthylene	9.33	152	12572	0.80 mg/L		99
46)	2,6-Dinitrotoluene	9.31	165	1623	0.57 mg/L	#	54
47)	3-Nitroaniline	9.52	138	803	0.38 mg/L	#	1
48)	Acenaphthene	9.56	154	8417	0.91 mg/L		99
50)	Dibenzofuran	9.76	168	12482	0.88 mg/L	#	87
52)	2,4-Dinitrotoluene	9.80	165	2127	0.62 mg/L	#	89
53)	Fluorene	10.19	166	9220	0.82 mg/L		94
54)	Diethylphthalate	10.10	149	8684	0.77 mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.18	204	4691	0.81 mg/L		96
59)	N-Nitrosodiphenylamine	10.34	169	6113	0.78 mg/L		95
60)	Azobenzene	10.38	77	10202	0.77 mg/L	#	91
62)	4-Bromophenyl phenyl ether	10.79	248	2933	0.82 mg/L		94
63)	Hexachlorobenzene	10.98	284	3258	0.85 mg/L		97
64)	Pentachlorophenol	11.20	266	1557	0.29 mg/L		93
65)	Phenanthrene	11.39	178	13539	0.89 mg/L		98
66)	Anthracene	11.45	178	12280	0.81 mg/L		94
67)	Carbazole	11.66	167	9156	0.79 mg/L		96
68)	Di-n-butylphthalate	12.17	149	12967	0.68 mg/L	#	95
69)	Fluoranthene	13.07	202	13966	0.78 mg/L	#	89
72)	Pyrene	13.43	202	13905	0.71 mg/L		98
74)	Butylbenzylphthalate	14.62	149	4351	0.50 mg/L	#	86
75)	Benz(a)anthracene	15.58	228	13831	0.85 mg/L		94
76)	3,3'-Dichlorobenzidine	15.59	252	2451	0.71 mg/L	#	70
77)	Chrysene	15.67	228	12919m	0.80 mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.79	149	7495	0.66 mg/L	#	94
79)	Mirex	16.44	272	1159	0.73 mg/L		94
81)	Di-n-octylphthalate	17.01	149	9796	0.43 mg/L	#	93
82)	Benzo(b)fluoranthene	17.72	252	10293	0.68 mg/L		93
83)	Benzo(k)fluoranthene	17.76	252	11791m	0.83 mg/L		
84)	Benzo(a)pyrene	18.33	252	8468	0.71 mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.43	276	8606	0.89 mg/L	#	81
86)	Dibenz(a,h)anthracene	20.48	278	6509	0.89 mg/L	#	82
87)	Benzo(g,h,i)perylene	20.97	276	7349	0.97 mg/L	#	79

(#) = qualifier out of range (m) = manual integration
S060540.D BA060422.M Sun Apr 23 09:53:04 2006 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:52 2006 Quant Results File: BA060422.RES

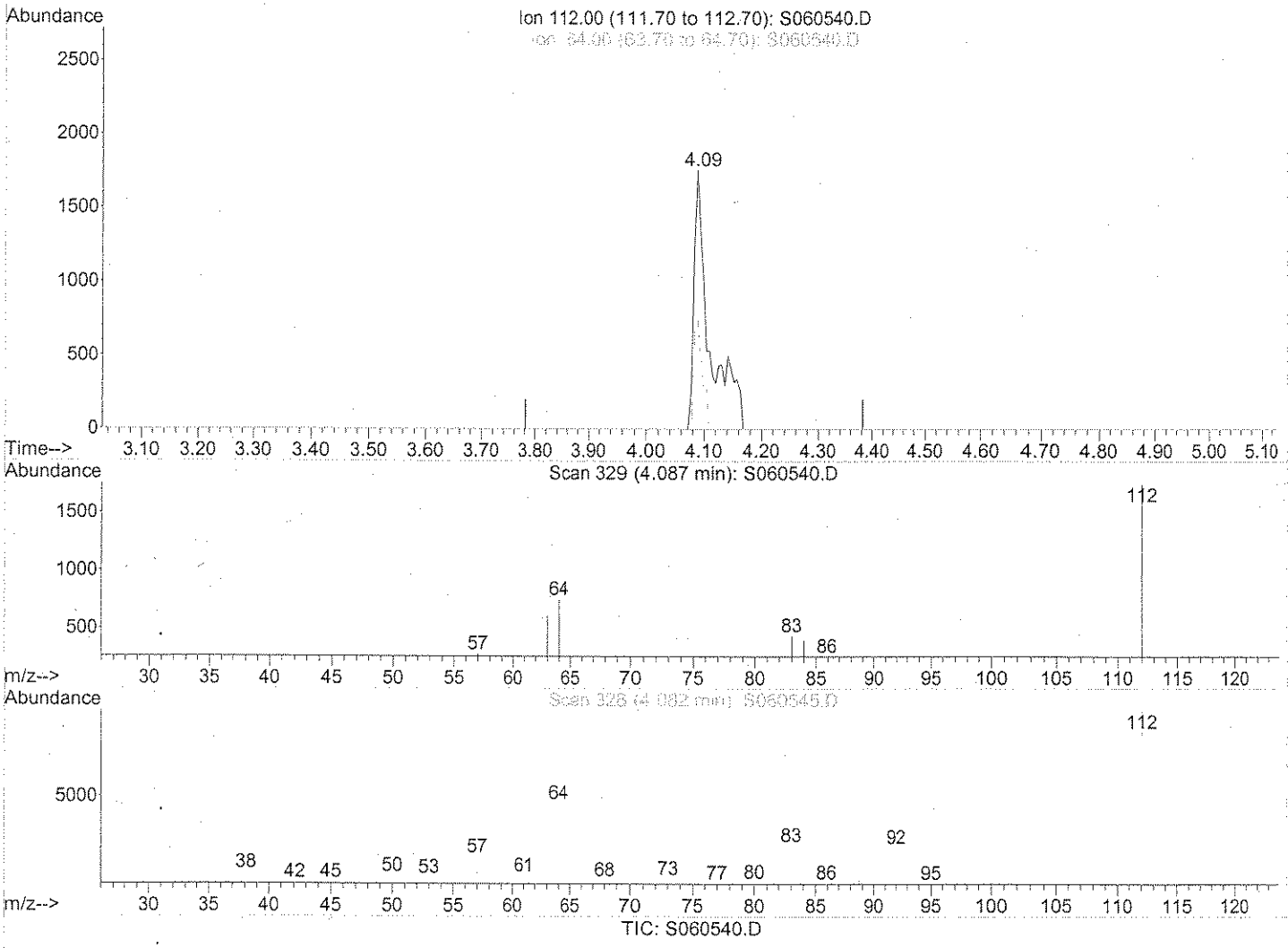
Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:51 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(6) 2-Fluorophenol (S)

4.09min 0.61mg/L m

response 3328

Ion	Exp%	Act%
112.00	100	100
64.00	52.30	24.01#
0.00	0.00	0.00
0.00	0.00	0.00

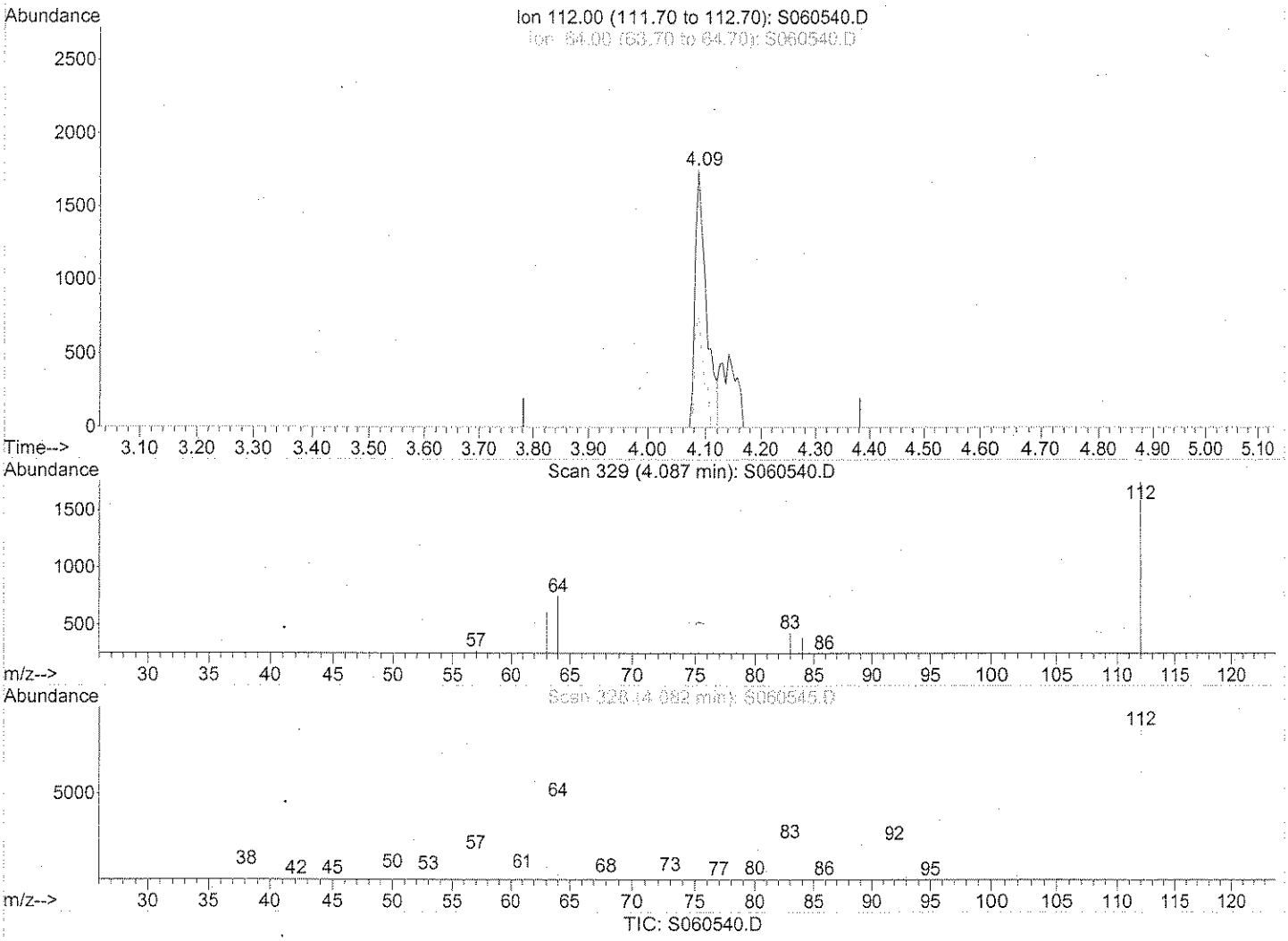
Split pair
4/26/06

4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:50 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(6) 2-Fluorophenol (S)

4.09min 0.44mg/L

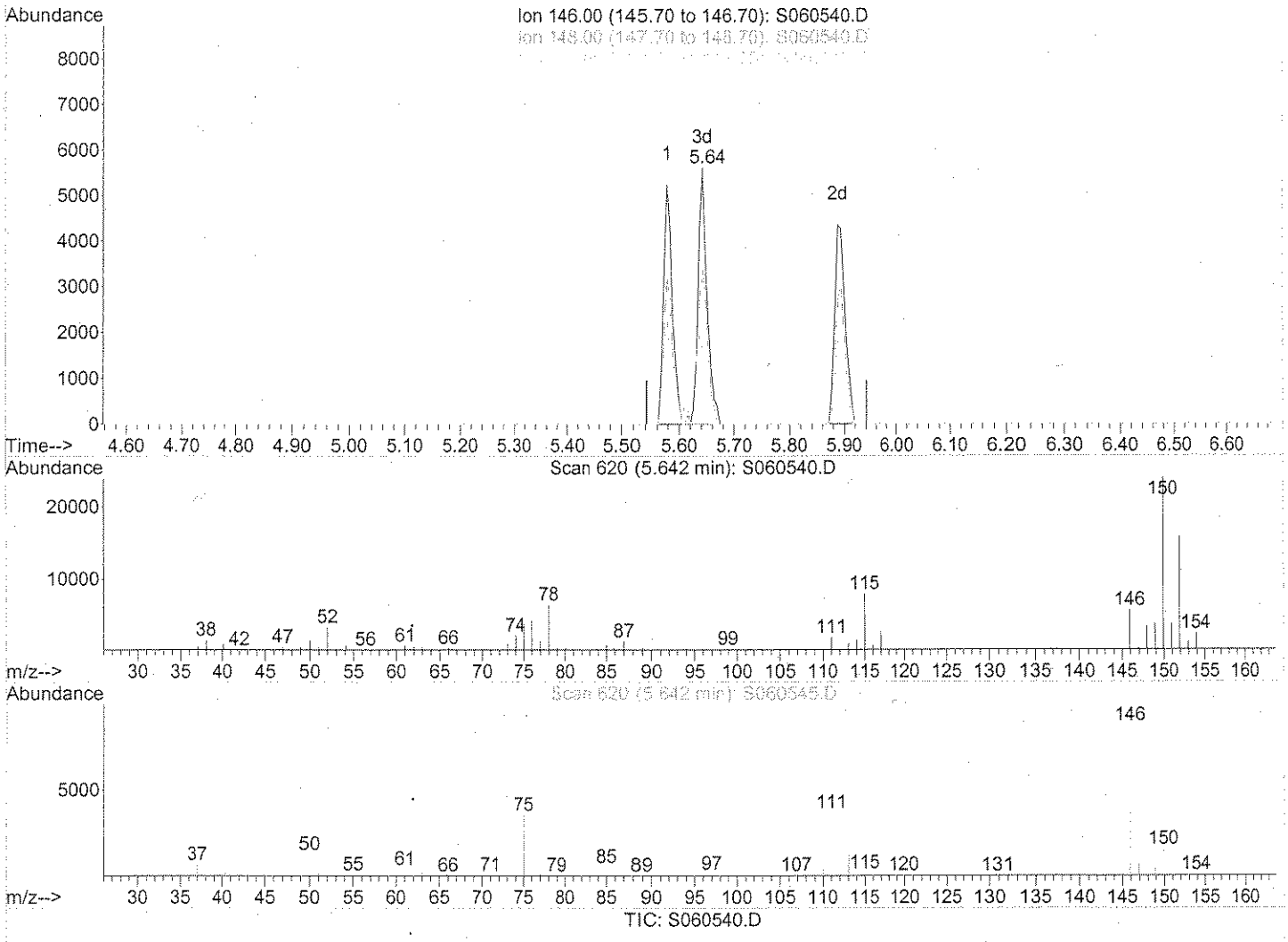
response 2371

Ion	Exp%	Act%
112.00	100	100
64.00	52.30	33.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:51 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060540.D

(13) 1,4-Dichlorobenzene (CMT)

5.64min 0.91mg/L m

response 6337

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	59.11
111.00	37.60	40.46
0.00	0.00	0.00

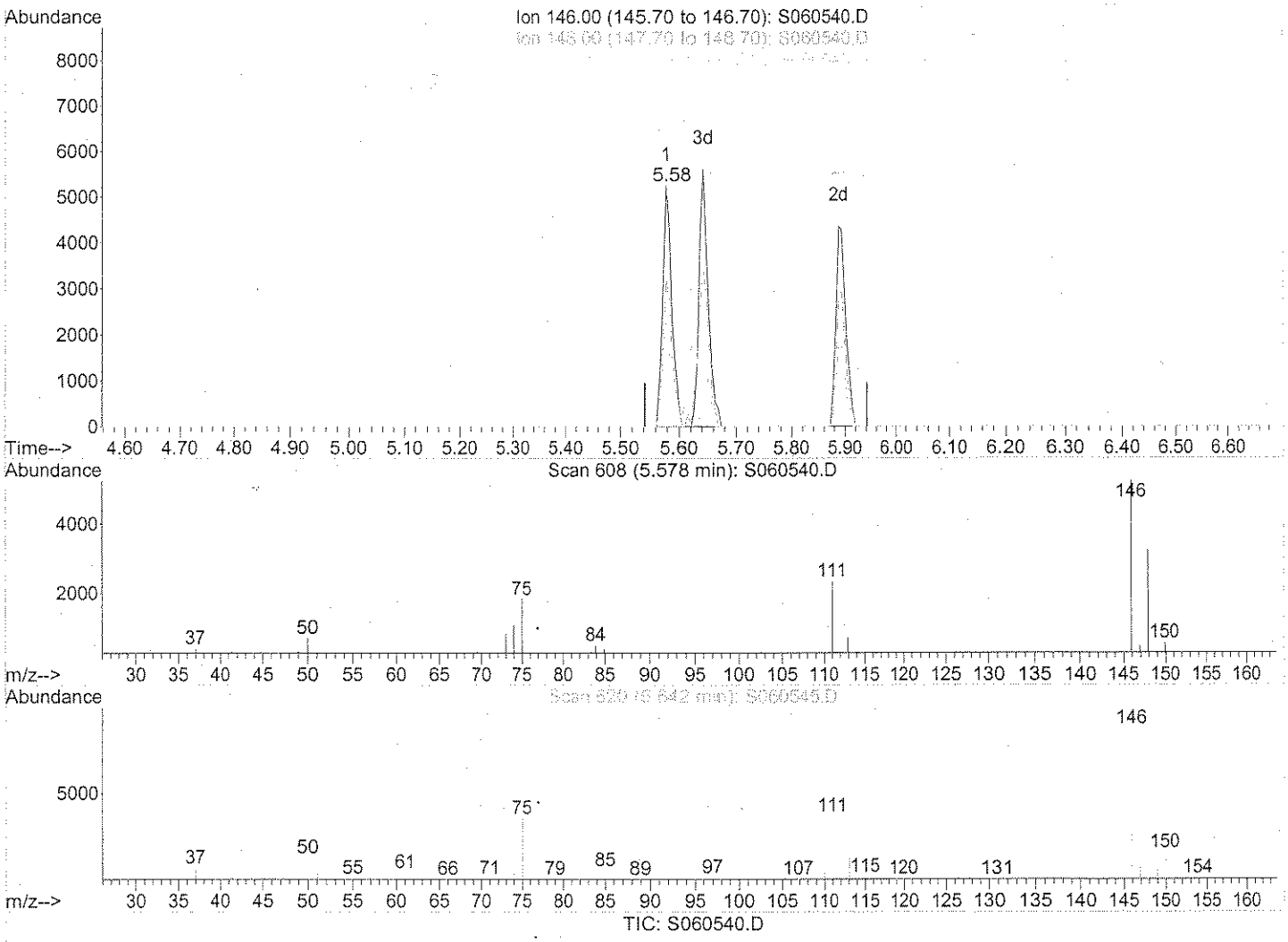
Wrong Pk
E. 4/23/06

4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:51 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060540.D

(13) 1,4-Dichlorobenzene (CMT)

5.58min 0.84mg/L

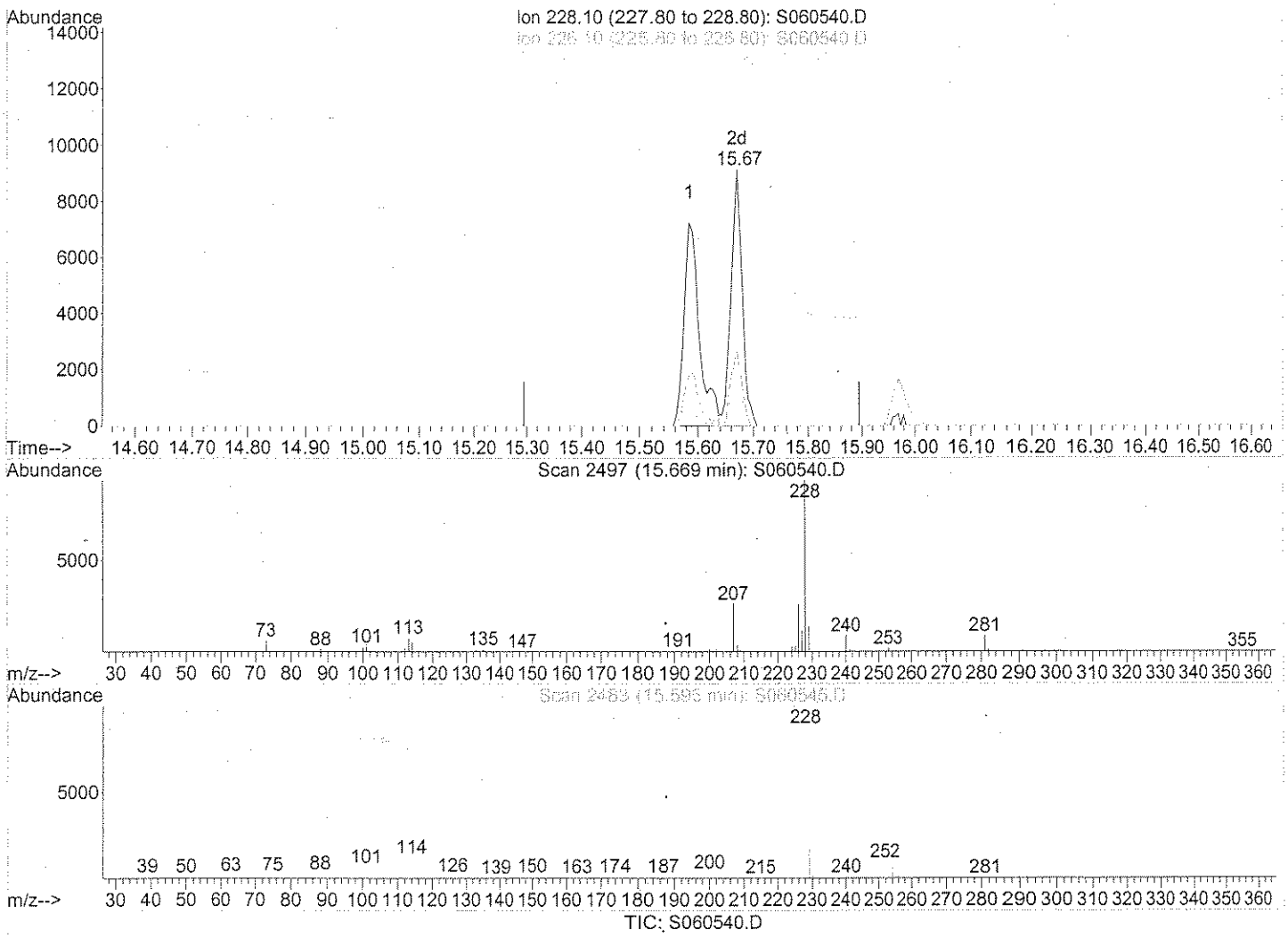
response 5890

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	63.60
111.00	37.60	43.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:52 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(77) Chrysene (T)

15.67min 0.80mg/L m

response 12919

Ion	Exp%	Act%
228.10	100	100
226.10	29.10	24.99
229.10	19.40	18.14
0.00	0.00	0.00

Wrong peak
4/27/06

DH 4/26/06

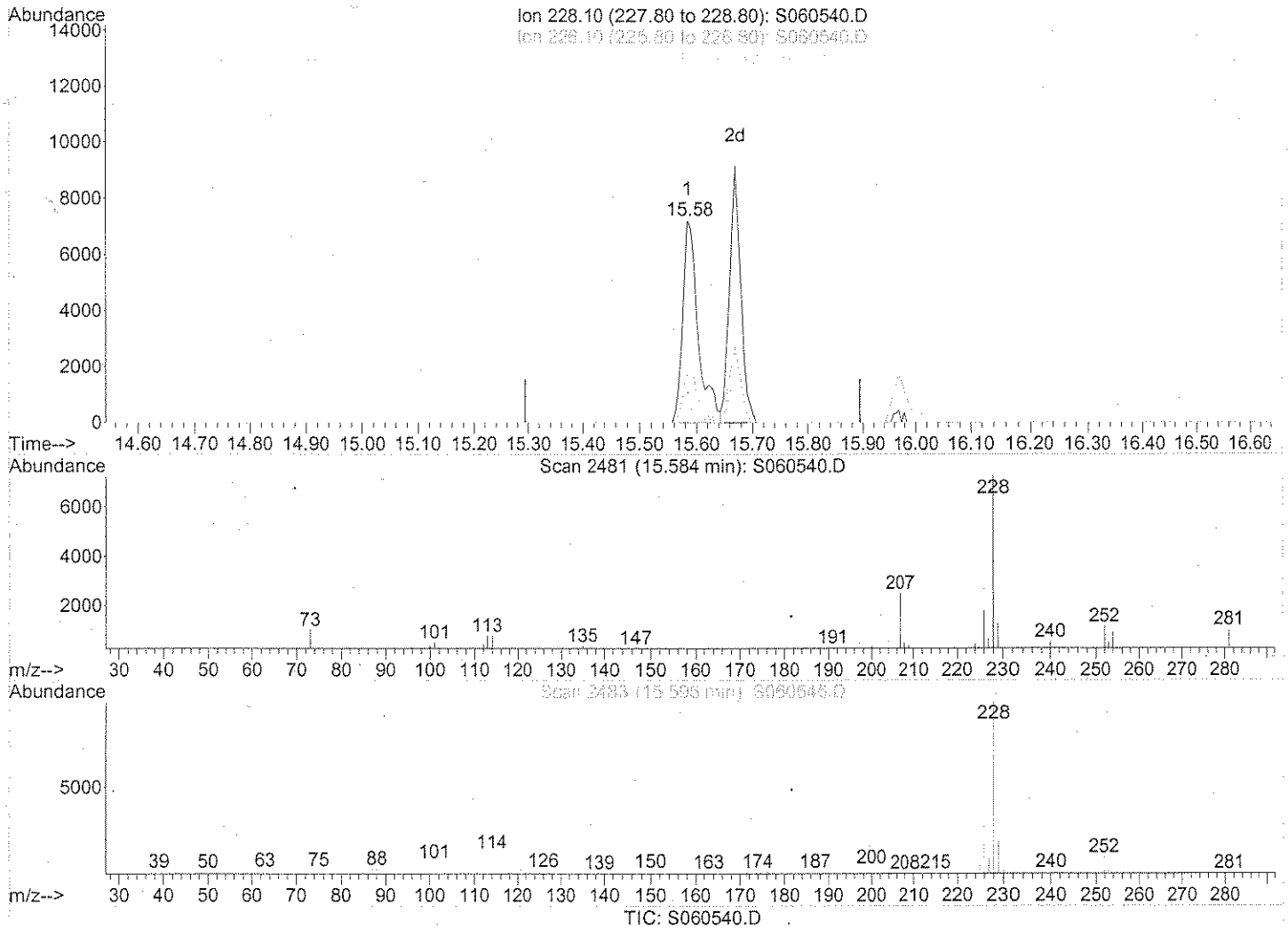
291

S060540.D BA060422.M Sun Apr 23 09:52:32 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:51 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



TIC: S060540.D

(77) Chrysene (T)

15.58min 0.85mg/L

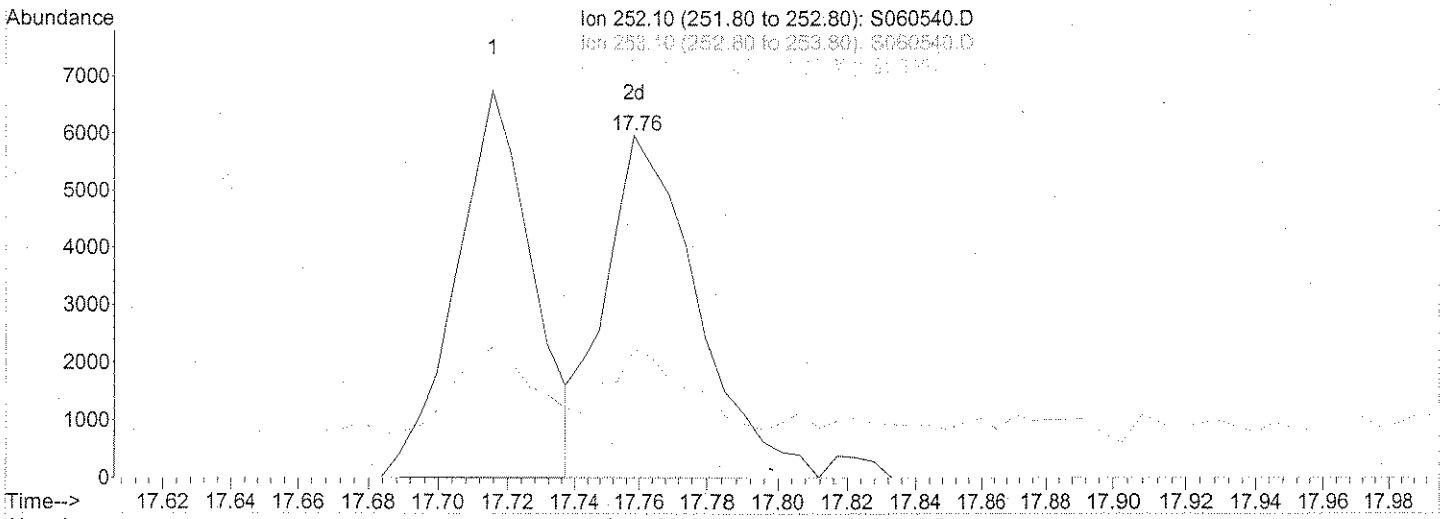
response 13831

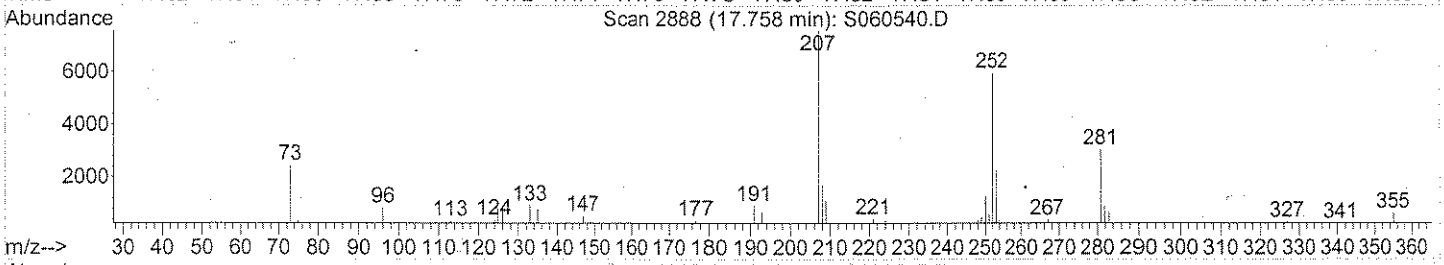
Ion	Exp%	Act%
228.10	100	100
226.10	29.10	23.34
229.10	19.40	16.94
0.00	0.00	0.00

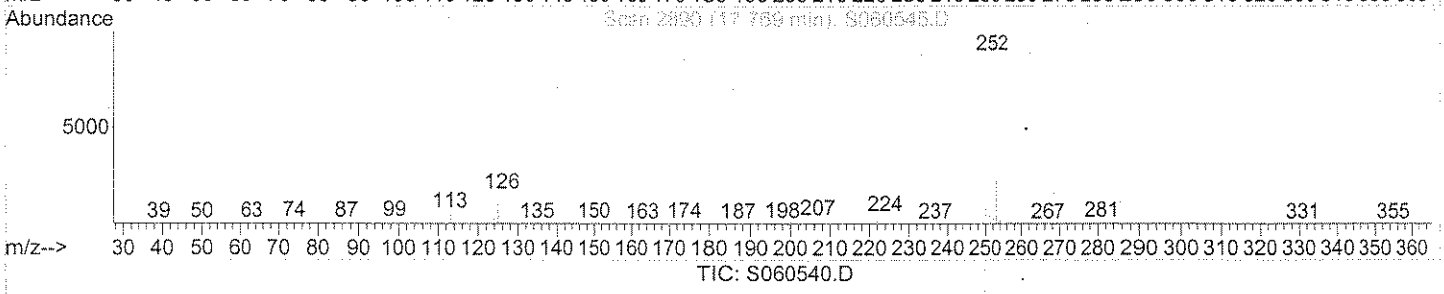
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:52 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration







(83) Benzo(k)fluoranthene (T)

17.76min 0.83mg/L m

response 11791

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	21.86
125.10	17.70	12.88#
0.00	0.00	0.00

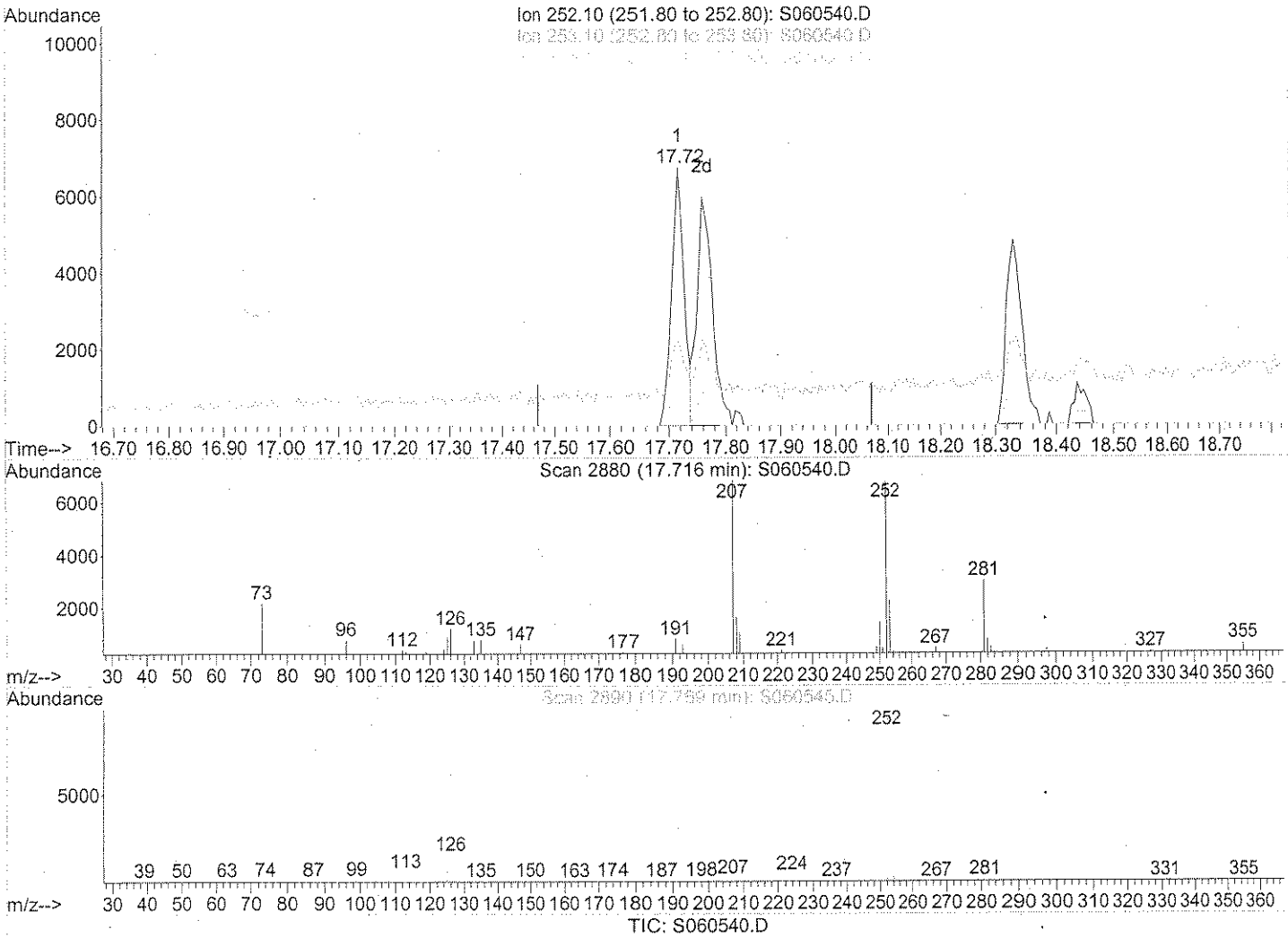
Wrong pg 4/21/06

DM 4/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:52 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Single Level Calibration



(83) Benzo(k)fluoranthene (T)

17.72min 0.72mg/L

response 10293

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	25.04
125.10	17.70	14.76
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:50:36 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	167150	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	648901	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	363233	40.00	mg/L	0.00
57) Phenanthrene-d10	11.36	188	603483	40.00	mg/L	0.00
70) Chrysene-d12	15.63	240	552271	40.00	mg/L	0.00
80) Perylene-d12	18.44	264	321471	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.09	112	2371	0.44	mg/L	0.00
Spiked Amount 50.000			Recovery =	0.88%		
7) Phenol-d5	5.21	99	4748	0.69	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.38%		
23) Nitrobenzene-d5	6.38	82	4576	0.73	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.46%		
41) 2-Fluorobiphenyl	8.67	172	9845	0.86	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.72%		
61) 2,4,6-Tribromophenol	10.52	330	1253	0.63	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.26%		
73) Terphenyl-d14	13.69	244	9705	0.71	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.42%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	1807	0.88	mg/L #	50
3) N-Nitrosodimethylamine	2.76	42	1114	0.55	mg/L #	62
4) Pyridine	2.80	79	3535	0.69	mg/L #	29
5) PGMEA	4.01	43	2544	0.73	mg/L #	44
8) Aniline	5.28	93	4724	0.70	mg/L	98
9) Phenol	5.23	94	5935	0.80	mg/L	95
10) Bis(2-chloroethyl)ether	5.33	93	5133	0.88	mg/L #	72
11) 2-Chlorophenol	5.40	128	4637	0.78	mg/L	90
12) 1,3-Dichlorobenzene	5.58	146	5890	0.85	mg/L	96
13) 1,4-Dichlorobenzene	5.58	146	5890	0.84	mg/L	96
14) Benzyl alcohol	5.85	108	1960	0.57	mg/L #	71
15) 1,2-Dichlorobenzene	5.89	146	5793	0.87	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.97	99	1622	0.90	mg/L #	78
17) 2-Methylphenol	5.99	108	3996	0.73	mg/L	94
18) Bis(2-chloroisopropyl)ethe	6.02	45	717	0.52	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.20	70	3539	0.74	mg/L #	42
20) Hexachloroethane	6.28	117	2480	0.87	mg/L	91
21) 3- and 4-Methylphenol Coel	6.18	107	5031	0.73	mg/L	96
24) Nitrobenzene	6.40	77	5318	0.76	mg/L #	71
25) Isophorone	6.69	82	8771	0.73	mg/L	97
26) 2-Nitrophenol	6.82	139	1462	0.48	mg/L #	85
27) 2,4-Dimethylphenol	6.85	122	3872	0.77	mg/L	92
28) Bis(2-chloroethoxy)methane	6.98	93	4698	0.74	mg/L #	82
29) 2,4-Dichlorophenol	7.11	162	2963	0.60	mg/L	93
30) 1,2,4-Trichlorobenzene	7.21	180	4624	0.84	mg/L	99
31) Benzoic acid	6.85	122	3872	1.07	mg/L #	19
32) Naphthalene	7.29	128	14340	0.87	mg/L	99
33) 4-Chloroaniline	7.41	127	3349	0.71	mg/L #	94
34) Hexachlorobutadiene	7.52	225	2964	0.89	mg/L	98

(#) = qualifier out of range (m) = manual integration
S060540.D BA060422.M Sun Apr 23 09:50:38 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:50:36 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

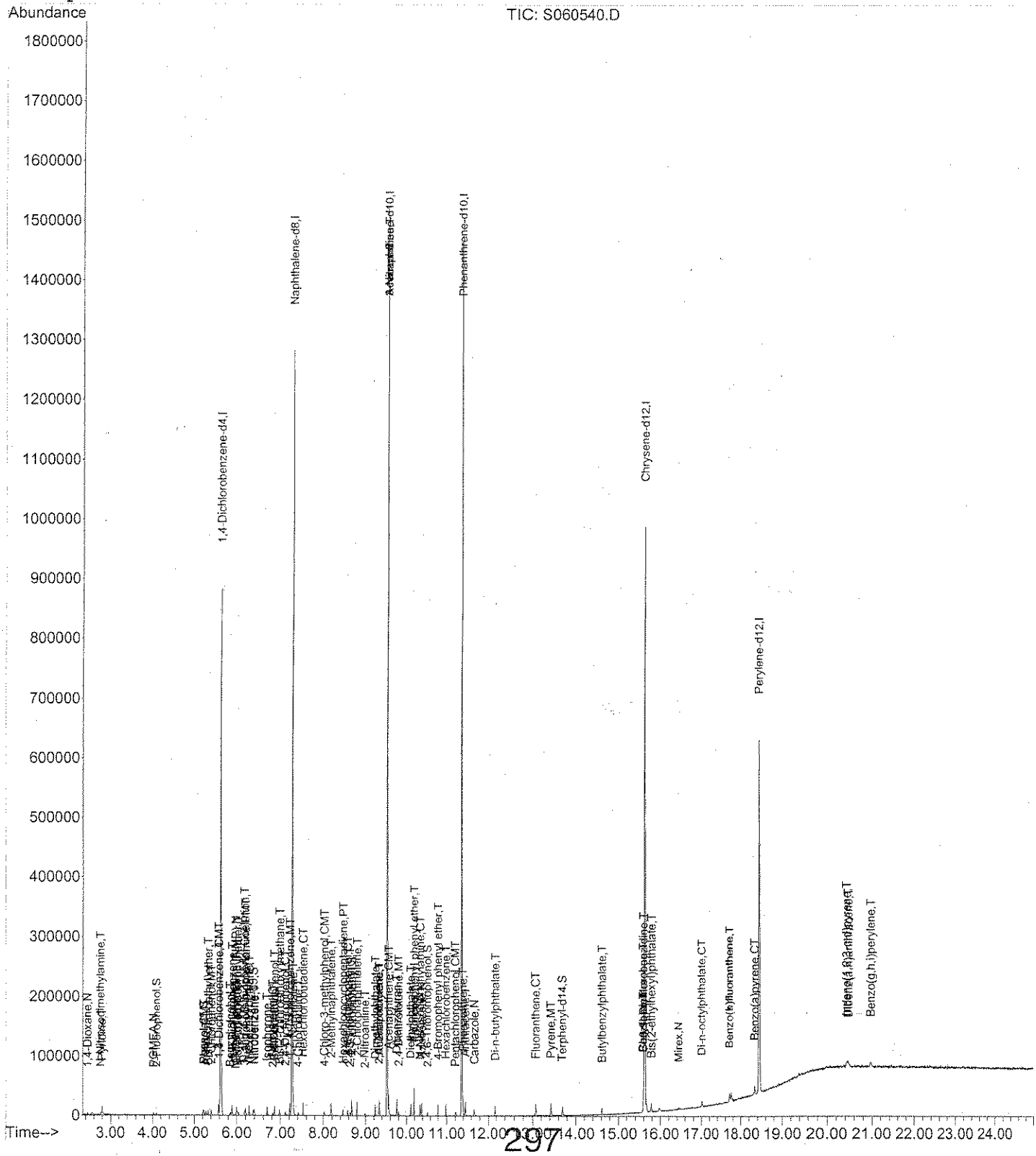
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.02	107	3130	0.66	mg/L	#	87
36)	2-Methylnaphthalene	8.18	142	9004	0.81	mg/L		99
38)	Hexachlorocyclopentadiene	8.46	237	2493	0.72	mg/L	#	92
39)	2,4,6-Trichlorophenol	8.57	196	2256	0.64	mg/L		90
40)	2,4,5-Trichlorophenol	8.63	196	2467	0.64	mg/L	#	93
42)	2-Chloronaphthalene	8.79	162	8452	0.83	mg/L		98
43)	2-Nitroaniline	8.98	65	1757	0.57	mg/L	#	81
44)	Dimethylphthalate	9.23	163	8745	0.77	mg/L	#	91
45)	Acenaphthylene	9.33	152	12572	0.80	mg/L		99
46)	2,6-Dinitrotoluene	9.31	165	1623	0.57	mg/L	#	54
47)	3-Nitroaniline	9.52	138	803	0.38	mg/L	#	1
48)	Acenaphthene	9.56	154	8417	0.91	mg/L		99
50)	Dibenzofuran	9.76	168	12482	0.88	mg/L	#	87
52)	2,4-Dinitrotoluene	9.80	165	2127	0.62	mg/L	#	89
53)	Fluorene	10.19	166	9220	0.82	mg/L		94
54)	Diethylphthalate	10.10	149	8684	0.77	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.18	204	4691	0.81	mg/L		96
59)	N-Nitrosodiphenylamine	10.34	169	6113	0.78	mg/L		95
60)	Azobenzene	10.38	77	10202	0.77	mg/L	#	91
62)	4-Bromophenyl phenyl ether	10.79	248	2933	0.82	mg/L		94
63)	Hexachlorobenzene	10.98	284	3258	0.85	mg/L		97
64)	Pentachlorophenol	11.20	266	1557	0.29	mg/L		93
65)	Phenanthrene	11.39	178	13539	0.89	mg/L		98
66)	Anthracene	11.45	178	12280	0.81	mg/L		94
67)	Carbazole	11.66	167	9156	0.79	mg/L		96
68)	Di-n-butylphthalate	12.17	149	12967	0.68	mg/L	#	95
69)	Fluoranthene	13.07	202	13966	0.78	mg/L	#	89
72)	Pyrene	13.43	202	13905	0.71	mg/L		98
74)	Butylbenzylphthalate	14.62	149	4351	0.50	mg/L	#	86
75)	Benz(a)anthracene	15.58	228	13831	0.85	mg/L		94
76)	3,3'-Dichlorobenzidine	15.59	252	2451	0.71	mg/L	#	70
77)	Chrysene	15.58	228	13831	0.85	mg/L		91
78)	Bis(2-ethylhexyl)phthalate	15.79	149	7495	0.66	mg/L	#	94
79)	Mirex	16.44	272	1159	0.73	mg/L		94
81)	Di-n-octylphthalate	17.01	149	9796	0.43	mg/L	#	93
82)	Benzo(b)fluoranthene	17.72	252	10293	0.68	mg/L		93
83)	Benzo(k)fluoranthene	17.72	252	10293	0.72	mg/L		94
84)	Benzo(a)pyrene	18.33	252	8468	0.71	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	20.43	276	8606	0.89	mg/L	#	81
86)	Dibenz(a,h)anthracene	20.48	278	6509	0.89	mg/L	#	82
87)	Benzo(g,h,i)perylene	20.97	276	7349	0.97	mg/L	#	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060540.D Vial: 4
Acq On : 22 Apr 2006 5:10 pm Operator: SC
Sample : SSTD001 Inst : MSS
Misc : SSTD001;;;;;;;23-MS-43-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:50 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:46:37 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E.C. 4/27/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	169917	40.00	mg/L	0.00
22) Naphthalene-d8	7.27	136	650849	40.00	mg/L	0.00
37) Acenaphthene-d10	9.52	164	354838	40.00	mg/L	-0.01
57) Phenanthrene-d10	11.36	188	592872	40.00	mg/L	-0.01
70) Chrysene-d12	15.62	240	539817	40.00	mg/L	-0.01
80) Perylene-d12	18.44	264	311452	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.08	112	8912	1.61	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.22%		
7) Phenol-d5	5.20	99	12072	1.72	mg/L	-0.02
Spiked Amount 50.000			Recovery =	3.44%		
23) Nitrobenzene-d5	6.37	82	11118	1.77	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.54%		
41) 2-Fluorobiphenyl	8.66	172	21616	1.94	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.88%		
61) 2,4,6-Tribromophenol	10.51	330	2795	1.42	mg/L	0.00
Spiked Amount 50.000			Recovery =	2.84%		
73) Terphenyl-d14	13.68	244	21974	1.65	mg/L	-0.01
Spiked Amount 50.000			Recovery =	3.30%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.44	88	3928	1.88	mg/L #	54
3) N-Nitrosodimethylamine	2.75	42	3755m	1.82	mg/L	
4) Pyridine	2.78	79	11504m	2.20	mg/L	
5) PGMEA	4.00	43	5944	1.67	mg/L #	39
8) Aniline	5.27	93	11281	1.66	mg/L	98
9) Phenol	5.22	94	12592	1.68	mg/L #	84
10) Bis(2-chloroethyl)ether	5.33	93	11433	1.93	mg/L #	78
11) 2-Chlorophenol	5.40	128	10705	1.78	mg/L	91
12) 1,3-Dichlorobenzene	5.57	146	13671	1.95	mg/L	99
13) 1,4-Dichlorobenzene	5.64	146	13650m	1.92	mg/L	
14) Benzyl alcohol	5.83	108	5185	1.49	mg/L #	75
15) 1,2-Dichlorobenzene	5.89	146	12861	1.90	mg/L	99
16) N-Methyl pyrrolidine (NMP)	5.93	99	4924	2.69	mg/L	88
17) 2-Methylphenol	5.98	108	9687	1.75	mg/L	96
18) Bis(2-chloroisopropyl)ethe	6.02	45	2593	1.84	mg/L #	1
19) N-Nitrosodi-n-propylamine	6.19	70	8219	1.69	mg/L #	48
20) Hexachloroethane	6.28	117	5217	1.79	mg/L #	84
21) 3- and 4-Methylphenol Coel	6.17	107	11536	1.64	mg/L #	93
24) Nitrobenzene	6.40	77	12500	1.78	mg/L #	71
25) Isophorone	6.68	82	20547	1.71	mg/L	96
26) 2-Nitrophenol	6.81	139	4679	1.53	mg/L #	96
27) 2,4-Dimethylphenol	6.85	122	8791	1.75	mg/L	93
28) Bis(2-chloroethoxy)methane	6.97	93	11088	1.75	mg/L #	83
29) 2,4-Dichlorophenol	7.10	162	8172	1.64	mg/L	99
30) 1,2,4-Trichlorobenzene	7.21	180	10870	1.97	mg/L	96
31) Benzoic acid	6.85	122	8791	2.42	mg/L #	20
32) Naphthalene	7.29	128	32037	1.94	mg/L	99
33) 4-Chloroaniline	7.40	127	9401	1.99	mg/L	96
34) Hexachlorobutadiene	7.52	225	6517	1.94	mg/L	96

298

(#) = qualifier out of range (m) = manual integration
S060541.D BA060422.M Sun Apr 23 09:48:54 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 09:46:37 2006 Quant Results File: BA060422.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration
DataAcq Meth : 8270

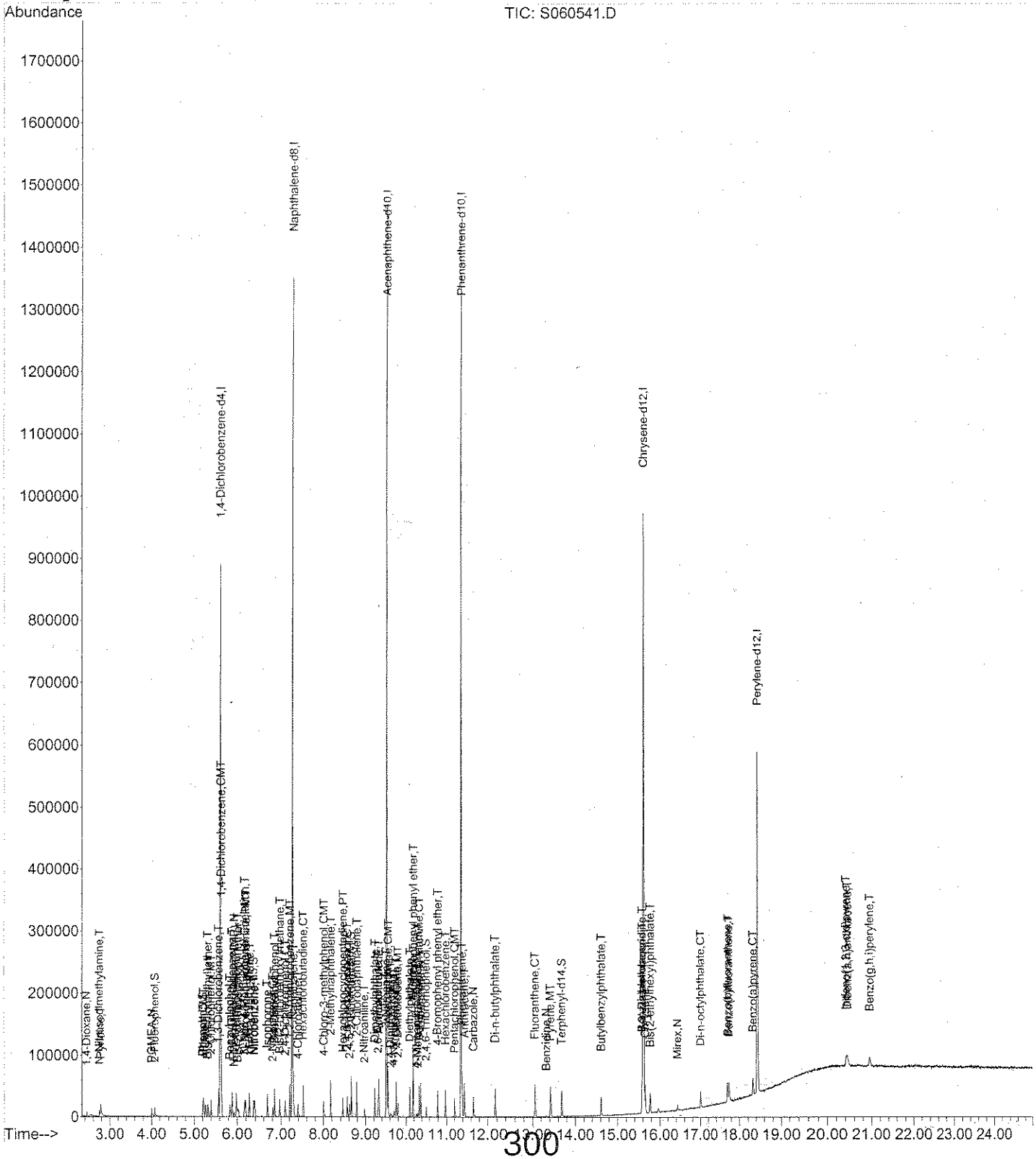
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.01	107	7587	1.60	mg/L	#	91
36)	2-Methylnaphthalene	8.17	142	20599	1.84	mg/L		100
38)	Hexachlorocyclopentadiene	8.46	237	5622	1.65	mg/L		96
39)	2,4,6-Trichlorophenol	8.56	196	5669	1.65	mg/L		99
40)	2,4,5-Trichlorophenol	8.62	196	5990	1.58	mg/L		96
42)	2-Chloronaphthalene	8.79	162	18740	1.88	mg/L		98
43)	2-Nitroaniline	8.97	65	3886	1.29	mg/L		97
44)	Dimethylphthalate	9.22	163	19824	1.79	mg/L		93
45)	Acenaphthylene	9.32	152	28562	1.86	mg/L		99
46)	2,6-Dinitrotoluene	9.31	165	4035	1.44	mg/L	#	63
47)	3-Nitroaniline	9.49	138	3222	1.54	mg/L	#	40
48)	Acenaphthene	9.55	154	17558	1.94	mg/L		99
49)	2,4-Dinitrophenol	9.62	184	1552	0.45	mg/L	#	88
50)	Dibenzofuran	9.76	168	26624	1.92	mg/L		90
51)	4-Nitrophenol	9.70	109	2296	0.79	mg/L	#	49
52)	2,4-Dinitrotoluene	9.80	165	5142	1.55	mg/L		88
53)	Fluorene	10.18	166	20200	1.85	mg/L		95
54)	Diethylphthalate	10.10	149	19321	1.76	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.18	204	10789	1.91	mg/L		99
56)	4-Nitroaniline	10.27	138	1996	1.03	mg/L	#	72
58)	2-Methyl-4,6-dinitrophenol	10.30	198	1649	0.75	mg/L	#	77
59)	N-Nitrosodiphenylamine	10.34	169	14193	1.85	mg/L		93
60)	Azobenzene	10.38	77	24035	1.84	mg/L	#	91
62)	4-Bromophenyl phenyl ether	10.79	248	6457	1.84	mg/L		94
63)	Hexachlorobenzene	10.97	284	6761	1.80	mg/L		97
64)	Pentachlorophenol	11.20	266	5041	0.95	mg/L		98
65)	Phenanthrene	11.38	178	29420	1.96	mg/L		99
66)	Anthracene	11.44	178	27236	1.83	mg/L		99
67)	Carbazole	11.66	167	21986	1.93	mg/L		98
68)	Di-n-butylphthalate	12.16	149	29928	1.60	mg/L	#	98
69)	Fluoranthene	13.06	202	30941	1.77	mg/L	#	92
71)	Benzidine	13.33	184	89	0.35	mg/L	#	66
72)	Pyrene	13.41	202	31355	1.64	mg/L		100
74)	Butylbenzylphthalate	14.61	149	11292	1.34	mg/L		93
75)	Benz(a)anthracene	15.58	228	27769	1.76	mg/L		98
76)	3,3'-Dichlorobenzidine	15.58	252	6097	1.81	mg/L		97
77)	Chrysene	15.66	228	28100m	1.78	mg/L		
78)	Bis(2-ethylhexyl)phthalate	15.78	149	15857	1.43	mg/L		97
79)	Mirex	16.43	272	2458	1.59	mg/L		94
81)	Di-n-octylphthalate	17.00	149	22032	1.01	mg/L	#	97
82)	Benzo(b)fluoranthene	17.70	252	23522	1.59	mg/L	#	90
83)	Benzo(k)fluoranthene	17.75	252	23960	1.74	mg/L	#	93
84)	Benzo(a)pyrene	18.32	252	18505	1.60	mg/L	#	91
85)	Indeno(1,2,3-c,d)pyrene	20.42	276	17009	1.81	mg/L	#	69
86)	Dibenz(a,h)anthracene	20.46	278	12373	1.74	mg/L	#	88
87)	Benzo(g,h,i)perylene	20.96	276	14529	1.98	mg/L	#	74

(#) = qualifier out of range (m) = manual integration
S060541.D BA060422.M Sun Apr 23 09:48:54 2006 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\S060422\S060541.D Vial: 5
Acq On : 22 Apr 2006 5:44 pm Operator: SC
Sample : SSTD002 Inst : MSS
Misc : SSTD002;;;;;;;23-MS-43-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 23 9:48 2006 Quant Results File: BA060422.RES

Method : C:\MSDCHEM\1\METHODS\BA060422.M (RTE Integrator)
Title : MS10 EPA Method 625/8270C
Last Update : Sun Apr 23 09:15:15 2006
Response via : Initial Calibration



2665 Park Center Drive, Suite D Simi Valley, California 96065 (805) 526-7161 (805) 526-7270 fax

Columbia Analytical Services INC.
An Employee - Owned Company

May 8, 2006

Brian Hitchens
GeoSyntec Consultants
11305 Rancho Bernardo Road, Suite 101
San Diego, CA 92127

RE: TDY/Project #SC0307

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on April 3, 2006. The samples were sent out for full analysis to our Redding facility. Please find their report attached. For your reference, these analyses have been assigned our service request number L0600578.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. The soil samples were analyzed at our Redding lab. Their report is attached. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 617 pages plus the attachment.

Columbia Analytical Services is certified for environmental analyses by the NELAP (certificate number: 02115CA), Los Angeles County Laboratory ID (No. 10151) and Arizona Department of Health Services (License number: AZ0550).

The Canoga Park facility has moved from the 6925 Canoga Ave. address. We are currently receiving samples at 8030 Remmet Ave., Suite 2 Canoga Park, CA 91304 until the new facility at 2655A Park Center Dr. Simi Valley, CA 93065 has been completed.

If you have any questions, please call me at (818) 587-5550.

Respectfully submitted,

Columbia Analytical Services, Inc.

FOR

Ed Wilson
Project Chemist

EW/kr

Document Number: 1559

10600578

Analysis Request and Chain of Custody Record

Project Name: TDY	Project Number: SC0367	Page 1 of 1
Samplers Names: CL, SA	Project Contact: Brian Hitchens	
Laboratory Name: Columbia Analytical	Lab Contact: Ed Wilson	White copy: to accompany samples
Lab Address: 6925 Corvegas Ave Corvegas Park, CA 91303	Lab Phone: 818 587-5550	Yellow copy: field copy
	Carrier/Waybill No.	

Required Analyses

VOCs by 8260	Metals	SVOCs by 8270	SO4	Conductivity					

Bottle Type and Volume/Preservative

40 ml vial HCl		1 Liter Amber UC	1-125ml PLNP						

Number of Containers

	Sample Name	Date	Time	Sample Type											Comments	Lab Use Only: Condition of Bottles
1	T-45 GW-37	3/30/06	10:40	H_2O			1									
2	T-45 GW-11	3/30/06	9:40	H_2O			1									
3	T-44 GW-11	3/30/06	12:18	H_2O			1									
4	T-40 GW-11	3/30/06	11:35	H_2O			1									
5	B131-MW2D	3/31/06	12:39	H_2O	3		1	(1)	(1)						✓ SO4 ADDED PER B. HITCHENS 4/3/06 0958	
6	QCEB-033106	3/31/06	9:15	H_2O	3											
7	B131-MW3D	3/31/06	14:50	H_2O	3		1	(1)	(1)						✓ SO4 ADDED PER B. HITCHENS 4/3/06 0958	

Special Instructions:

Turn-around Time:
☐ Normal ☐ Rush: ____

1. Relinquished by (Signature/Affiliation): GeoSyntec	Date: 3/31/06 Time: 15:30	1. Received by (Signature/Affiliation): CAP	Date: 3/31/06 Time: 1530
2. Relinquished by (Signature/Affiliation):	Date: 4/3/06 Time: 0955	2. Received by (Signature/Affiliation): Lonnie Kuster	Date: 4/3/06 Time: 0955
3. Relinquished by (Signature/Affiliation):	Date: Time:	3. Received by (Signature/Affiliation):	Date: Time:

GeoSyntec Consultants 11305 Rancho Bernardo Road, Suite 101, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Columbia Analytical Services, Inc.
Chain of Custody Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578

Bottle ID	Date	Time	Sample Location / User	Disposed On
L0600578-001.07	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1117	SUBBED / SANDERSON	
	04/04/2006	1127	D-WALK / FCHATMAN	
	04/06/2006	0949	Custodian / FCHATMAN	
	04/06/2006	0957	In Lab / CCALLAWAY	
	04/07/2006	0909	D-Disposed / CPHAM	
L0600578-002.07	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1117	SUBBED / SANDERSON	
	04/04/2006	1127	D-WALK / FCHATMAN	
	04/06/2006	0949	Custodian / FCHATMAN	
	04/06/2006	0957	In Lab / CCALLAWAY	
	04/07/2006	0909	D-Disposed / CPHAM	
L0600578-003.07	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1117	SUBBED / SANDERSON	
	04/04/2006	1127	D-WALK / FCHATMAN	
	04/06/2006	0949	Custodian / FCHATMAN	
	04/06/2006	0957	In Lab / CCALLAWAY	
	04/07/2006	0909	D-Disposed / CPHAM	
L0600578-004.07	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1117	SUBBED / SANDERSON	
	04/04/2006	1127	D-WALK / FCHATMAN	
	04/06/2006	0949	Custodian / FCHATMAN	
	04/06/2006	0957	In Lab / CCALLAWAY	
	04/07/2006	0909	D-Disposed / CPHAM	
L0600578-005.01	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1118	SUBBED / SANDERSON	
	04/04/2006	1127	D-REACH / FCHATMAN	
	04/12/2006	1519	Custodian / CPHAM	
	04/13/2006	1130	In Lab / BGEERS	
	04/21/2006	1052	D-REACH / FCHATMAN	
	05/04/2006	1820	BOX L / FCHATMAN	
L0600578-005.02	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1118	SUBBED / SANDERSON	
	04/04/2006	1127	D-REACH / FCHATMAN	
	04/12/2006	1519	Custodian / CPHAM	
	04/13/2006	1130	In Lab / BGEERS	
	04/21/2006	1052	D-REACH / FCHATMAN	
	05/04/2006	1820	BOX L / FCHATMAN	

Columbia Analytical Services, Inc.
Chain of Custody Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578

Bottle ID	Date	Time	Sample Location / User	Disposed On
L0600578-005.03	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1118	SUBBED / SANDERSON	
	04/04/2006	1127	D-REACH / FCHATMAN	
	05/04/2006	1820	BOX L / FCHATMAN	
L0600578-005.04	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1117	SUBBED / SANDERSON	
	04/04/2006	1127	D-WALK / FCHATMAN	
	04/06/2006	0949	Custodian / FCHATMAN	
	04/06/2006	0957	In Lab / CCALLAWAY	
	04/07/2006	0909	D-Disposed / CPHAM	
L0600578-005.05	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1117	SUBBED / SANDERSON	
	04/04/2006	1127	D-WALK / FCHATMAN	
	04/06/2006	1253	Custodian / CPHAM	
	04/06/2006	1344	In Lab / AMESSER	
	04/18/2006	1008	In Lab / LSMITH	
	04/24/2006	1056	D-WALK / FCHATMAN	
L0600578-006.01	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1118	SUBBED / SANDERSON	
	04/04/2006	1127	D-REACH / FCHATMAN	
	04/12/2006	1519	Custodian / CPHAM	
	04/13/2006	1130	In Lab / BGEERS	
	04/21/2006	1052	D-REACH / FCHATMAN	
	05/04/2006	1820	BOX L / FCHATMAN	
L0600578-006.02	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1118	SUBBED / SANDERSON	
	04/04/2006	1127	D-REACH / FCHATMAN	
	04/12/2006	1519	Custodian / CPHAM	
	04/13/2006	1130	In Lab / BGEERS	
	04/21/2006	1052	D-REACH / FCHATMAN	
	05/04/2006	1820	BOX L / FCHATMAN	
L0600578-006.03	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1118	SUBBED / SANDERSON	
	04/04/2006	1127	D-REACH / FCHATMAN	
	05/04/2006	1820	BOX L / FCHATMAN	
L0600578-007.01	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1118	SUBBED / SANDERSON	
	04/04/2006	1127	D-REACH / FCHATMAN	

Columbia Analytical Services, Inc.
Chain of Custody Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: L0600578

Bottle ID	Date	Time	Sample Location / User	Disposed On
L0600578-007.01	04/12/2006	1519	Custodian / CPHAM	
	04/13/2006	1130	In Lab / BGEERS	
	04/21/2006	1051	D-REACH / FCHATMAN	
	05/04/2006	1820	BOX L / FCHATMAN	
L0600578-007.02	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1118	SUBBED / SANDERSON	
	04/04/2006	1127	D-REACH / FCHATMAN	
	04/12/2006	1519	Custodian / CPHAM	
	04/13/2006	1130	In Lab / BGEERS	
	04/21/2006	1052	D-REACH / FCHATMAN	
	05/04/2006	1820	BOX L / FCHATMAN	
L0600578-007.03	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1118	SUBBED / SANDERSON	
	04/04/2006	1127	D-REACH / FCHATMAN	
	05/04/2006	1820	BOX L / FCHATMAN	
L0600578-007.04	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1117	SUBBED / SANDERSON	
	04/04/2006	1127	D-WALK / FCHATMAN	
	04/06/2006	0949	Custodian / FCHATMAN	
	04/06/2006	0957	In Lab / CCALLAWAY	
	04/07/2006	0909	D-Disposed / CPHAM	
L0600578-007.05	04/03/2006	1013	SMO / LKUKITA	
	04/03/2006	1117	SUBBED / SANDERSON	
	04/04/2006	1127	D-WALK / FCHATMAN	
	04/06/2006	1253	Custodian / CPHAM	
	04/06/2006	1344	In Lab / AMESSER	
	04/18/2006	1008	In Lab / LSMITH	
	04/24/2006	1055	D-WALK / FCHATMAN	

SAMPLE RECEIPT FORM

Service Request No: L060 0578 Client: GEOSYNTEC

Sample(s) delivered by: Client ____ CAS Emp ✓ After Hours ____ DHL____

Golden State Overnight ____ Fed X ____ UPS ____ Other Courier ____

Chain of Custody filled out accurately? Yes ✓ No ____(See Comments)

Appropriate sample volume and containers? Yes ✓ No ____(See Comments)

Sufficient labeling on container(s) ? Yes ✓ No ____(See Comments)

Container(s) supplied by CAS? Yes ✓ No ____(See Comments)

Custody seal(s) intact? N/A ✓ Yes ____ No ____(See Comments)

Trip Blank(s) received Yes ✓ No ____

If Trip Blank was supplied by CAS, record serial # _____-TB-_____

Temperature of sample(s)/cooler 3 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes ✓ No ____ Filled Properly? Yes ✓ No ____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes ____ Appropriate Preservation? Yes____ No____

RUSH Turn around time? Yes ____ Notified _____Date & Time_____

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl____	D.O____	Flash____	Diss S2-____	Ferrous Fe____
24HR	pH_____	Odor____	Cr+6____		
48HR	BOD____	Color____	MBAS____	Nitrate____	
	Nitrite____	O-PO4____	Sett Sol____	Turbidity____	
72HR	Vapors____				

Notified _____ Date & Time_____

Container(s) received and their preservative(s):

-1 → -4 = 1-LAG(NP)
-5 & -6 = 3-40ml VOA(HCL)
-7 1-LAG(NP)
1-125ml PI (NP)
-6 = 3-40ml VOA(HCL)

Comments _____

Initials, Date, Time LK 4/3/06 r:\sr_forms\cooler.doc Rev. 2/25/02

GSO
GOLDEN STATE OVERNIGHT

Print Close

DELIVERY REPORT FOR TRACKING # 504248698

Shipment Detail

Delivered To:	COLUMBIA ANALYTICAL SERVICES		
Delivery Location:	REDDING, CALIFORNIA		
Reference:	N/A		
Delivery Status:	DELIVERED	**Tracking Number:**	504248698
Shipped Date:	4/3/2006	**Package Weight:**	48 LBS
Delivery Date:	4/4/2006	**Service Type:**	PDS
Delivery Time:	10:27 AM	**Signed For By:**	Chatman

Tracking Notes

Date/Time	Note
4/3/2006-9:15 PM	ARRIVED AT GSO SORT FACILITY
4/3/2006-9:15 PM	DELIVERY SCHED FOR 04/04/2006
4/3/2006-9:15 PM	ASSIGNED TO RTE # D96003A
4/4/2006-10:27 AM	SHIPMENT DELIVERED

GSO
GOLDEN STATE OVERNIGHT

Print Close

DELIVERY REPORT FOR TRACKING # 504248713

Shipment Detail

Delivered To:	COLUMBIA ANALYTICAL SERVICES		
Delivery Location:	REDDING, CALIFORNIA		
Reference:	N/A		
Delivery Status:	DELIVERED	**Tracking Number:**	504248713
Shipped Date:	4/3/2006	**Package Weight:**	39 LBS
Delivery Date:	4/4/2006	**Service Type:**	PDS
Delivery Time:	10:27 AM	**Signed For By:**	Chatman

Tracking Notes

Date/Time	Note
4/3/2006-9:15 PM	ARRIVED AT GSO SORT FACILITY
4/3/2006-9:15 PM	DELIVERY SCHED FOR 04/04/2006
4/3/2006-9:15 PM	ASSIGNED TO RTE # D96003A
4/4/2006-10:27 AM	SHIPMENT DELIVERED

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 ph (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

May 3, 2006

Columbia Analytical Services, Inc.
ATTN: Ed Wilson
6925 Canoga Avenue
Canoga Park, CA. 91303-3102

RE: TDY/SC0307

Dear Ed:

Enclosed are the results of the samples submitted to our laboratory on April 03, 2006. For your reference, these analyses have been assigned our service request number L0600578.

All analyses were performed according to our Laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

If you have any questions, please call me at (530) 244-5269.

Respectfully submitted,

Columbia Analytical Services, Inc.

Douglas Burnett
Laboratory Manager

TABLE OF CONTENTS

CAS Service Request: L0600578
CAS Tier Level: IV

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1	Cover Page
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Current CAS Redding Accreditation Programs

Federal and National Programs

- U.S Air Force, Air Force Center for Environmental Excellence (AFCEE)
  Approved laboratory for Wastewater and Hazardous Waste
- U.S. Army Corps of Engineers – MRD, HTRW Mandatory Center of Expertise
  Validated for Wastewater and Hazardous Waste
- Department of the Navy, Naval Facilities Engineering Service Center (NFESC)
  Approved laboratory for Wastewater and Hazardous Waste

State and Local Programs

- State of Arizona, Department of Health Services
  Approved laboratory for Hazardous Waste
  Lab ID# AZ0604
- State of Arkansas, Department of Environmental Quality
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# None
- State of California, Department of Health Services, National Environmental Laboratory Accreditation Program (NELAP)
  Approved laboratory for Drinking Water, Wastewater and Hazardous Waste
  Lab ID# 01105CA
  - Los Angeles County Sanitation District
    Approved laboratory for Wastewater
    Lab ID# 10243
- State of Florida, Department of Health (NELAP)
  Approved Environmental Testing Laboratory for Wastewater and Hazardous Waste
  Lab ID# E87203
- State of Kansas, Department of Health and Environment (NELAP)
  Approved laboratory for Hazardous Waste
  Lab ID# E-10323
- State of Massachusetts, Department of Environmental Protection
  Approved laboratory for Drinking Water, Wastewater
  Lab ID# M-CA025
- State of Oklahoma, Department of Environmental Quality
  Approved laboratory for General Water Quality/Sludge Testing
  Lab ID# 9952
- State of Oregon, Department of Human Resources, Health Division (ORELAP)
  Approved laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID# CA200004
- State of Utah, Department of Health, Division of Laboratory Services (NELAP)
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# QUAL1
- State of Washington, Department of Ecology, Environmental Laboratory Accreditation Program
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# C037
- State of Wisconsin, Department of Ecology
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# 999767340

Organic Department Qualifiers

Organic Sample ID Qualifiers

A	This qualifier indicates that a TIC is a suspected aldol-condensation product
B	Used when the analyte is found in the associated blank as well as the sample, indicating possible blank contamination. The data user should evaluate these compounds and their amounts carefully.
C	The "C" flag indicates the presence of this compound has been confirmed by the GC/MS analysis.
D	This qualifier is used for all the compounds identified in an analysis at a secondary dilution factor. "D" qualifiers are used only for the samples reported at more than one dilution factor.
E	This flag indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at the appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.
I	The qualifier indicates that the reporting limit to the "I" qualifier has been raised. It is used when the chromatographic interference prohibits detection of a compound at a level below the concentration expressed on the Form I.
J	Indicates an estimated value. It is used when the data indicates the presence of a target compound below the reporting limit or the presence of a Tentatively Identified Compound (TIC).
N	This qualifier indicates presumptive evidence of a compound. This flag is only used for Tentatively Identified Compounds (TIC), where the identification is based on a mass spectral library research. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.
P	This qualifier is used for target analytes when there is a greater than 40% difference for detected concentrations between the two columns or detectors. The concentration value is reported on Form I and flagged with a "P".
U	Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustments when indicated.
Z	Indicates an estimated value between the method detection limit and zero.

Organic Sample ID Qualifiers

These qualifiers may be appended to the Lab Sample ID and/or the Client Sample ID for organic analysis.

DL	Diluted reanalysis. Indicates that the results were determined in an analysis of a secondary dilution of a sample or extract. A digit to indicate multiple dilutions of the sample or extract may follow the "DL" suffix. The results of more than one diluted reanalysis may be reported.
MS	Matrix spike (may be followed by a digit to indicate multiple matrix spikes within a sample set).
MSD	Matrix spike duplicate (may be followed by a digit as noted above in the MS explanation).
R	Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. If followed by a digit, indicates multiple reanalysis of the sample at the same dilution.
RE	Re-extraction analysis. The sample was re-extracted and reanalyzed. May be followed by a digit to indicate multiple re-extracted analysis of the same sample at the same dilution.

Inorganic Data Qualifiers
Cations

C (Concentration) Qualifier:

B -- The reported value obtained was less than the CRDL, but greater than or equal to the MDL/IDL.

U -- The value was less than the MDL/IDL or was not detected.

Q Qualifier:

E -- The reported value is estimate because of interference.

M -- Duplicate injection precision was not met. (Two analyses of the sample did not agree).

N -- Spiked sample recovery not within control limits.

S -- The reported value was determined by the Method of Standard Additions (MSA).

J -- Post digestion spike for Graphite Furnace AA analyses is out of control limits (85% - 115%), while sample absorbance is less than 50% of spike absorbance.

***** -- Duplicate analysis not within control limits.

+ -- Correlation coefficient for the MSA is less than 0.995.

M (Method) Qualifier:

P -- ICP

A -- Flame AA

F -- Furnace AA

CV -- Cold Vapor

AV -- Automated Cold Vapor

NR -- Analyte was not required

C -- Manual spectrophotometric

RRL (Reliable Reporting Limit):

RRL -- The reliable reporting limit was established to qualify analytical results for which no CRDL was Available, or did not apply. The RRL is a concentration approximately four times the Method Detection Limit (MDL).

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
L0600578-001	T-45 GW-37	03/30/06	10:40
L0600578-002	T-45 GW-11	03/30/06	09:40
L0600578-003	T-44 GW-11	03/30/06	12:18
L0600578-004	T-46 GW-11	03/30/06	11:35
L0600578-005	B131-MW2D	03/31/06	12:39
L0600578-006	QCEB-033106	03/31/06	09:15
L0600578-007	B131-MW3D	03/31/06	14:50

CASE NARRATIVE

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	L0600578
Project:	TDY	**Date Received:**	April 3, 2006
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV validation deliverables.

Sample Receipt

Seven water samples were received for analysis at Columbia Analytical Services on April 3, 2006.

No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

No exceptions were noted during this analysis.

Volatile Organic Compounds by EPA Method 8260B

No exceptions were noted during this analysis.

Semivolatile Organic Compounds by EPA Method 8270C

The current upper control criterion was exceeded for several analytes in Laboratory Control Samples (LCS/LCSD) of LWG0600535. The spike recovery for Benzo(a)pyrene in LCS (LWG0600535-1) was below current control criterion. All spike recoveries were within the method guidelines. With the exception of trace level Benzoic Acid, all other analytes in question were not detected in the associated field samples. Since the calibration verification standard met method criteria, the sample data is not significantly affected. No further corrective action was appropriate.

Approved by: _____ **Date:** 5/3/06

CHAIN OF CUSTODY DOCUMENTATION

Intra-Network Chain of Custody

6925 Canoga Avenue • Canoga Park, CA 91303 • 818-587-5550 • FAX 818-587-5555

CAS

L0600578
GeoSyntec Consultants
TDY

Project Name: TDY
Project Number: SC0307
Project Manager: Brian Hitchens
Company: GeoSyntec Consultants

Lab Code	Client Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Date Received	Send To	COND_SPEC 120.1	SO4 300.0	SVO 8270C	VOC_FP 8260B
L0600578-001	T-45 GW-37	1	Water	03/30/06	1040	04/03/06	REDDING			IV	
L0600578-002	T-45 GW-11	1	Water	03/30/06	0940	04/03/06	REDDING			IV	
L0600578-003	T-44 GW-11	1	Water	03/30/06	1218	04/03/06	REDDING			IV	
L0600578-004	T-46 GW-11	1	Water	03/30/06	1135	04/03/06	REDDING			IV	
L0600578-005	B131-MW2D	5	Water	03/31/06	1239	04/03/06	REDDING	IV	IV	IV	IV
L0600578-006	QCEB-033106	3	Water	03/31/06	0915	04/03/06	REDDING				IV
L0600578-007	B131-MW3D	5	Water	03/31/06	1450	04/03/06	REDDING	IV	IV	IV	IV

Test Comments

SVO - 8270C	L0600578-001,2,3,4,5,7	Full List + 1,4-Dioxane. See Stealth List LJ1040.

Folder Comments:
Report on a Dry Weight Basis. Report MS/MSD (Batch QC Okay).

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
	____ **RUSH** (Surcharges Apply) **PLEASE CIRCLE WORK DAYS** 1 2 3 4 5 ✓ **STANDARD** Requested FAX Date: _____ Requested Report Date: 04/17/06	____ I. Results Only ____ II. Results + QC Summaries ____ III. Results + QC and Calibration Summaries ✓ IV. Data Validation Report with Raw Data PQL/MDL/J Y EDD Y GeoSyntec San Diego	PO# L0600578 Bill to

Relinquished By: Lonnie Kuhns 4/3/06 1520 Received By: _____ Airbill Number: _____

Columbia Analytical Services, inc.
An Employee-Owned Co

5090 Caterpillar Road
Redding, CA 96003
Phone: (530) 244-5262
Fax #: (530) 244-4109

L0600578
GeoSyntec Consultants
TDY

ECEIPT FORM

Project/Client: _____ Batch No.: L0600578

1. Cooler(s)/Sample(s) received on: 4/4/06 Shipped via: GSO

   Shipping Bill # (s): VARIOUS # of Coolers/Packages 2

2. Radiological Screening by: _____ (Acceptable) Rejected

3. Custody seals on outside of cooler: YES (NO) N/A
   If yes, where? Front_____ Rear_____ Lt Side_____ Rt Side_____
   Seals intact: YES (NO)

COOLER/SAMPLE PROCESSING

4. Sample Processing/Tagging by: JC Chatman

5. Cooler(s)/Sample(s) Temp's: 2.0C _____ _____ _____ _____
   (or)
   Temp. Blank (if included): _____ _____ _____ _____ _____

6. Type of packing material (circle): (Ice) (Blue Ice) Bubble Wrap Bubble Bags Zip Locks Webbing
   Other: CARDBOARD BOX

7. Custody papers properly filled out (ink, signed, dated, released, etc.)? (YES) NO

8. Containers arrived in good condition (not broken, leaking, etc.)? (YES) NO

9. Samples received with adequate holding time remaining to conduct analysis? (YES) NO

10. Container labels complete (i.e. analysis, preservation, date/time, etc.)? (YES) NO

11. Container labels and tags agree with custody papers? (YES) NO

12. Correct types of containers used for the tests indicated? (YES) NO

    a.) Adequate sample received? If not, note on Exception Report. (YES) NO

13. Containers supplied by: (CAS) Other

14. Preserved containers received with the appropriate preservative? (YES) NO N/A
    pH: PRES PER DOCS. (or) See pH log.

15. VOA vials free of air bubbles? (YES) NO N/A

16. Trip Blank preparation date: _____ CAS Other (N/A)

17. Volatile Soil samples: Encores or Plugs in Vials
    Freezer or GC/MS Date:_____ Time:_____ (N/A)

See Exception Report for discrepancies.

Rev. 8/18/2004/ds

GENERAL CHEMISTRY

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultant
Project Name : TDY
Project Number : SC0307
Sample Matrix : WATER

Service Request : L0600578
Date Collected : 03/31/06
Date Received : 04/03/06

Inorganic Parameters

Sample Name : B131-MW2D
Lab Code : L0600578-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Conductivity	umhos/cm	120.1	10	10	1	04/06/06 14:00	57100	
Sulfate	mg/L	300.0	1	0.02	1	04/19/06 12:41	ND	U

Report By:C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultant
Project Name : TDY
Project Number : SC0307
Sample Matrix : WATER

Service Request : L0600578
Date Collected : 03/31/06
Date Received : 04/03/06

Inorganic Parameters

Sample Name : B131-MW3D
Lab Code : L0600578-007
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Conductivity	umhos/cm	120.1	10	10	1	04/06/06 14:00	60100	
Sulfate	mg/L	300.0	1	0.02	1	04/19/06 12:56	ND	U

QC Summary

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: L0600578
Client : GeoSyntec Consultant
Project : TDY

Initial and Continuing Calibration Verification
Form II

Analyte	Analysis Method	Date Analyzed	Units	Initial Calibration			Continuing Calibration					
								#1		#2		#3	
				True	Result	%R	True	Result	%R	Result	%R	Result	%R
Conductivity	120.1	04/06/06	umhos	1,412	1,390	98							
Sulfate	300.0	04/19/06	mg/L	10.00	9.67	97	8.00	7.44	93	-		-	

Control Limits are 90-110% unless noted.

Remarks

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: L0600578
Client : GeoSyntec Consultant
Project : TDY

Initial and Continuing Calibration Blanks
Form III

Analyte	Analysis Method	Date Analyzed	Units	Initial Calibration		Continuing Calibration						Method Blank	
						#1		#2		#3		units	mg/L
				Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.
Conductivity	120.1	04/06/06	umhos									10*	U
Sulfate	300.0	04/19/06	mg/L	0.02	U	0.02	U					0.2	J

Remarks

* Conductivity Method Blank units = umhos/cm

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: L0600578
Client : GeoSyntec Consultant
Project : TDY

Laboratory Control Sample
Form VII

Lab No.	LCS			Client Sample ID:		LCS						
Analyte	Analysis Method	Date Analyzed	Units		LCS TV	LCS Result	%R	LCSD Result	% R	Control Limit	RPD	Control Limit
Conductivity	120.1	04/06/06	umhos		1,412	1,390	98	1,389	98	93-105	0.1	20
Sulfate	300.0	04/19/06	mg/L		10.00	9.67	97	9.61	96	90-110	0.6	20

Remarks

Support Documentation

0605

SPECIFIC CONDUCTIVITY

Initials: am
Analysis Date: 4/6/06 @ 1400
Method EPA 120.1
SW-846 9050

Test Codes:COND, CONDF
Reporting Limit:10umhos/cm

No.	Reference Number	Degrees C	Scale Set Point	Meter Reading	dil. Factor	Final umhos/cm	True Value	%RPD or % R
ICB		20.7	us/cm	0.94	1	1<10		
CS1	G37009	20.3	↓	239	↓	239	250	95.6%
CS2	G37010	20.6	↓	485	↓	485	500	97.0%
CS3	G39265	20.5	ms/cm	2.45	↓	2450	2500	98.0%
CS4	G37012	20.7	↓	4.89	↓	4890	5000	97.8%
CS5	G37013	20.7	↓	24.5	↓	24500	25000	98.0%
CS6	G37014	20.7	↓	49.5	↓	49500	50000	99.0%
MB		20.7	us/cm	1.16	↓	1<10		
ICVS/LCS	G39376	20.3	↓	1390	↓	1390	am 4/7/06 ~~1413~~ 1412	98.4%
LCS DUP	G39376	20.3	↓	1389	↓	1389	1412	98.4%
s	D060175-1	18.0	↓	1.07	↓	1<10		
s	-1dup	17.8	↓	1.22	↓	1<10		
s	D060116S-1	18.4	↓	275	↓	275		
s	L060578-5	17.0	ms/cm	57.1	↓	57100		
s	-7	17.7	↓	60.1	↓	60100		
s	D060161-1	19.5	us/cm	320	↓	320		
s	-2	18.4	↓	271	↓	271		
s	-5	18.0	↓	214	↓	214		
s	-6	18.5	↓	465	↓	465		
s	CCVS	20.9	ms/cm	2.46	↓	2460	2500	98.4%
s	CCB	19.6	us/cm	1.48	↓	1<10		

1. RPD .07%

NA

Date	DL	Sample	F		Cl		NO2		Br		NO3		SO4		
			NR				NR		NR						
04/19/06 09:46	1	ICVS/LCS	2.59	103.6%	4.92	98.4%	<0.03	0.0%	6.80	100.8%	1.19	94.8%	9.67	96.7%	
04/19/06 10:01	1	RL	0.22	88.9%	1.03	103.1%	<0.03	0.0%	0.66	131.5%	0.13	133.6%	0.98	97.7%	
04/19/06 10:15	1	ICB	<0.01		<0.02		<0.03		<0.01		<0.01		<0.02		
04/19/06 10:30	1	MB	<0.01		0.07		<0.03		<0.01		<0.01		0.17		
04/19/06 10:45	1	LCSD	2.56	102.4%	4.88	97.7%	<0.03	0.0%	6.25	100.0%	1.18	94.1%	9.61	96.1%	
04/19/06 10:59	1	D0600277-1.03	<0.01		~~<0.02~~ NR		<0.03		<0.01		0.06		~~<0.02~~ NR		
04/19/06 11:14	20	L0600499-9	<0.2		395.87		<0.6		<0.2		~~<0.2~~ NR		221.50		
04/19/06 11:28	20	L0600499-9MS	43.04	107.6%	468.99	91.4%	<0.6	0.0%	100.02	100.0%	19.97	99.9%	380.80	99.6%	
04/19/06 11:43	20	L0600499-9MSD	44.11	110.3%	468.63	91.0%	<0.6	0.0%	102.22	102.2%	20.42	102.1%	383.16	101.0%	
04/19/06 11:58	1	L0600499-18	0.07		~~174.43~~ NR		<0.03		0.65		0.10		19.31		
04/19/06 12:12	10	L0600499-19	0.10		346.17		<0.3		1.34		<0.1		~~81.94~~ OD		
04/19/06 12:27	2	L0600499-19	0.10		~~356.86~~ OC		<0.06		1.34		<0.02		81.49		
04/19/06 12:41	1	L0600578-5.05	<0.01		~~<0.02~~ NR		<0.03		67.66		<0.01		<0.02		
04/19/06 12:56	1	L0600578-7	<0.01		~~<0.02~~		<0.03		72.37		<0.01		<0.02		
04/19/06 13:11	10	L0600544-2.15	0.25		309.17		<0.3		<0.1		5.08		~~46.35~~ OD		
04/19/06 13:25	1	CCVS	2.07	103.5%	3.93	98.5%	<0.03	0.0%	4.74	98.4%	0.96	95.7%	~~7.10~~ 7.44	~~88.6%~~ 93.0	LS 4/20/06
04/19/06 13:40	1	CCB	<0.01		0.12		<0.03		<0.01		<0.01		<0.02		
04/19/06 13:54	1	L0600544-2.15	<0.01		~~326.61~~ OC		<0.03		<0.01		5.08		45.99		
04/19/06 14:09	50	L0600544-3	<0.5		1678.74		<1.5		<0.5		14.43		~~168.02~~ NR		
04/19/06 14:24	1	D0600194-7	<0.01		~~95.22~~ NR		<0.03		0.81		<0.01		14.12		Rerun due to failed CCVS
04/19/06 14:38	1	D0600194-9	<0.01		95.28		<0.03		0.81		<0.01		11.70		
04/19/06 14:53	1	D0600194-11	<0.01		24.84		<0.03		1.23		<0.01		<0.02		
04/19/06 15:08	1	D0600194-13	<0.01		<0.02		<0.03		0.65		<0.01		<0.02		
04/19/06 15:22	1	D0600161-1	0.04		28.06		<0.03		<0.01		0.52		7.10		
04/19/06 15:37	1	D0600161-3	0.03		~~28.29~~ NR		<0.03		<0.01		0.52		7.20		
04/19/06 15:51	1	CCVS	2.07	104.1%	4.31	98.2%	<0.03	0.0%	4.75	94.9%	0.96	95.7%	~~7.10~~ Fail	88.6%	LS 4/20/06
04/19/06 16:06	1	CCB	<0.01		0.12		<0.03		<0.01		<0.01		0.17		
04/19/06 16:21	1	CCVS	2.07	106.2%	3.94	98.5%	<0.03	0.0%	4.75	94.9%	0.96	95.9%	~~7.44~~ 7.09	88.7%	LS 4/20/06
04/19/06 16:35	1	CCVS	2.12	106.2%	3.94	107.8%	<0.03	0.0%	4.75	94.7%	0.96	95.9%	7.09	88.5%	
		MDL	0.01		0.02		0.03		0.01		0.01		0.02		

Results in mg/L

Analyst/Date: L Smith 4/20/06

Reviewer/Date: _____

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 041906
Timebase: ICS-2000
#Samples: 65
Created: 4/19/2006 8:32:13 AM by RDDACQUWC8
Last Update: 4/19/2006 4:16:53 PM by RDDACQUWC8

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
1	Rinse	Unknown	1	Anions_Program	Anions_Method	Finished	4/19/2006 9:32:02 AM
2	CS1	Standard	2	Anions_Program	Anions_Method	Finished	4/18/2006 12:55:22 PM
3	CS2	Standard	3	Anions_Program	Anions_Method	Finished	4/18/2006 1:09:59 PM
4	CS3	Standard	4	Anions_Program	Anions_Method	Finished	4/18/2006 1:24:35 PM
5	CS4	Standard	5	Anions_Program	Anions_Method	Finished	4/18/2006 1:39:12 PM
6	CS5	Standard	6	Anions_Program	Anions_Method	Finished	4/18/2006 1:53:48 PM
7	CS6	Standard	7	Anions_Program	Anions_Method	Finished	4/18/2006 2:08:24 PM
8	CS7	Standard	8	Anions_Program	Anions_Method	Finished	4/18/2006 2:23:01 PM
9	ICVS/LCS	Unknown	9	Anions_Program	Anions_Method	Finished	4/19/2006 9:46:38 AM
10	RL	Unknown	3	Anions_Program	Anions_Method	Finished	4/19/2006 10:01:14 AM
11	ICB	Unknown	13	Anions_Program	Anions_Method	Finished	4/19/2006 10:15:50 AM
12	MB	Unknown	13	Anions_Program	Anions_Method	Finished	4/19/2006 10:30:26 AM
13	LCSD	Unknown	14	Anions_Program	Anions_Method	Finished	4/19/2006 10:45:03 AM
14	D0600277-1.03	Unknown	15	Anions_Program	Anions_Method	Finished	4/19/2006 10:59:39 AM
15	L0600499-9	Unknown	20	Anions_Program	Anions_Method	Finished	4/19/2006 11:14:16 AM
16	L0600499-9MS	Unknown	21	Anions_Program	Anions_Method	Finished	4/19/2006 11:28:52 AM
17	L0600499-9MSD	Unknown	22	Anions_Program	Anions_Method	Finished	4/19/2006 11:43:29 AM
18	L0600499-18	Unknown	23	Anions_Program	Anions_Method	Finished	4/19/2006 11:58:05 AM
19	L0600499-19	Unknown	23	Anions_Program	Anions_Method	Finished	4/19/2006 12:12:42 PM
20	L0600499-19	Unknown	23	Anions_Program	Anions_Method	Finished	4/19/2006 12:27:18 PM
21	L0600578-5.05	Unknown	24	Anions_Program	Anions_Method	Finished	4/19/2006 12:41:55 PM
22	L0600578-7	Unknown	25	Anions_Program	Anions_Method	Finished	4/19/2006 12:56:31 PM
23	L0600544-2.15	Unknown	26	Anions_Program	Anions_Method	Finished	4/19/2006 1:11:07 PM
24	CCVS	Unknown	27	Anions_Program	Anions_Method	Finished	4/19/2006 1:25:43 PM
25	CCB	Unknown	28	Anions_Program	Anions_Method	Finished	4/19/2006 1:40:20 PM
26	L0600544-2.15	Unknown	29	Anions_Program	Anions_Method	Finished	4/19/2006 1:54:56 PM
27	L0600544-3	Unknown	30	Anions_Program	Anions_Method	Finished	4/19/2006 2:09:33 PM
28	D0600194-7	Unknown	31	Anions_Program	Anions_Method	Finished	4/19/2006 2:24:12 PM
29	D0600194-9	Unknown	32	Anions_Program	Anions_Method	Finished	4/19/2006 2:38:48 PM
30	D0600194-11	Unknown	33	Anions_Program	Anions_Method	Finished	4/19/2006 2:53:25 PM
31	D0600194-13	Unknown	34	Anions_Program	Anions_Method	Finished	4/19/2006 3:08:01 PM
32	D0600161-1	Unknown	35	Anions_Program	Anions_Method	Finished	4/19/2006 3:22:38 PM
33	D0600161-3	Unknown	36	Anions_Program	Anions_Method	Finished	4/19/2006 3:37:15 PM
34	CCVS	Unknown	37	Anions_Program	Anions_Method	Finished	4/19/2006 3:51:51 PM
35	CCB	Unknown	34	Anions_Program	Anions_Method	Finished	4/19/2006 4:06:28 PM
36	CCVS	Unknown	35	Anions_Program	Anions_Method	Finished	4/19/2006 4:21:04 PM
37	CCVS	Unknown	36	Anions_Program	Anions_Method	Finished	4/19/2006 4:35:40 PM
38	LCS	Unknown	36	Anions_Program	Anions_Method	Finished	4/19/2006 4:50:17 PM
39	LCSD	Unknown	36	Anions_Program	Anions_Method	Single	
40	MB	Unknown	37	Anions_Program	Anions_Method	Single	
41	D0600202-1	Unknown	34	Anions_Program	Anions_Method	Single	
42	D0600202-3	Unknown	35	Anions_Program	Anions_Method	Single	

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 041906
Timebase: ICS-2000 Created: 4/19/2006 8:32:13 AM by RDDACQUWC8
#Samples: 65 Last Update: 4/19/2006 4:16:53 PM by RDDACQUWC8

No.	Dil. Factor
1	1.0000
2	1.0000
3	1.0000
4	1.0000
5	1.0000
6	1.0000
7	1.0000
8	1.0000
9	1.0000
10	1.0000
11	1.0000
12	1.0000
13	1.0000
14	1.0000
15	20.0000
16	20.0000
17	20.0000
18	1.0000
19	10.0000
20	2.0000
21	1.0000
22	1.0000
23	10.0000
24	1.0000
25	1.0000
26	1.0000
27	50.0000
28	1.0000
29	1.0000
30	1.0000
31	1.0000
32	1.0000
33	1.0000
34	1.0000
35	1.0000
36	1.0000
37	1.0000
38	1.0000
39	1.0000
40	1.0000
41	1.0000
42	1.0000

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 041906
Timebase: ICS-2000 Created: 4/19/2006 8:32:13 AM by RDDACQUWC8
#Samples: 65 Last Update: 4/19/2006 4:16:53 PM by RDDACQUWC8

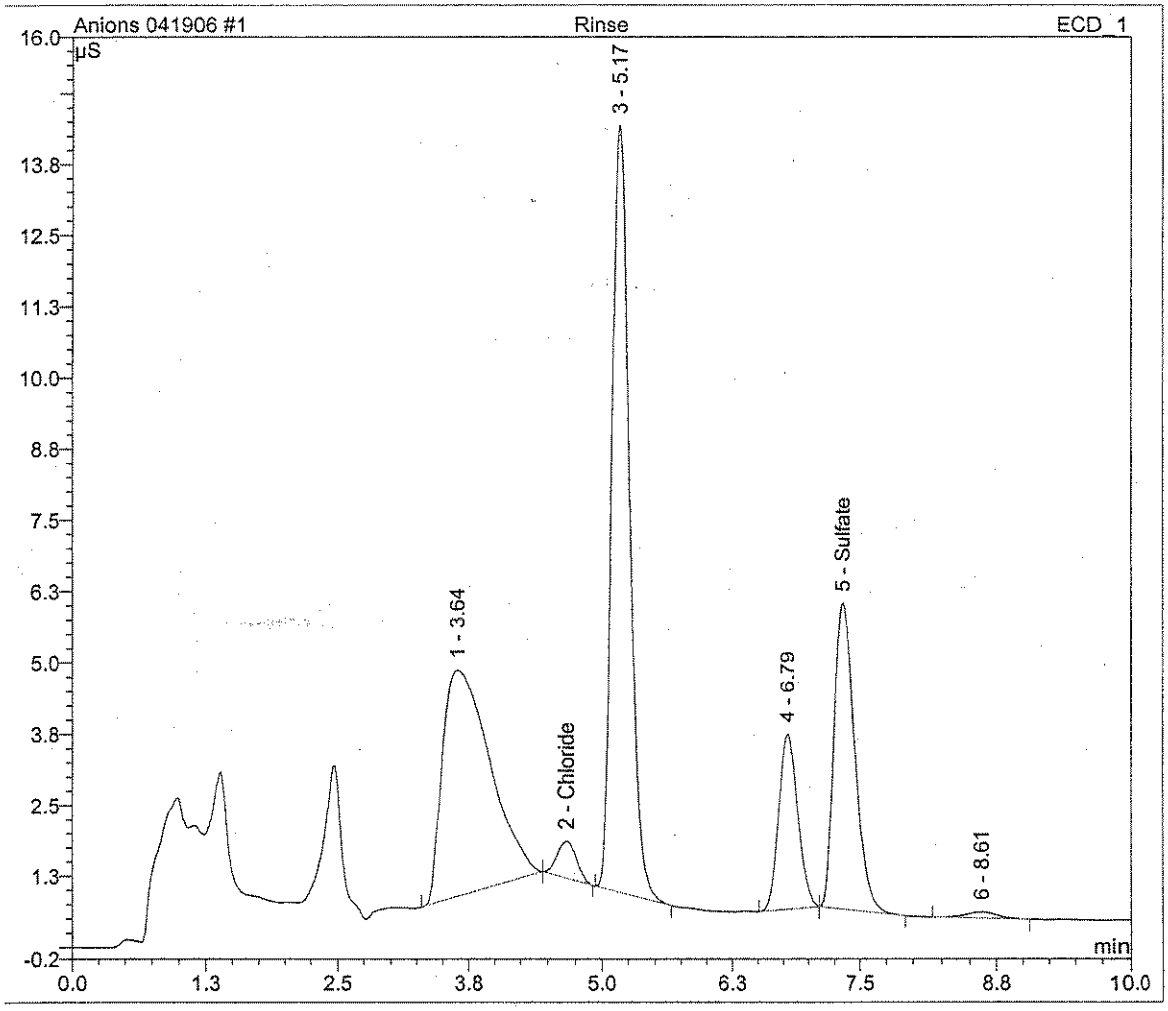
No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
43	D0600202-3MS	Unknown	36	Anions_Program	Anions_Method	Single	
44	D0600202-3MSD	Unknown	37	Anions_Program	Anions_Method	Single	
45	D0600202-7	Unknown	34	Anions_Program	Anions_Method	Single	
46	D0600202-9	Unknown	35	Anions_Program	Anions_Method	Single	
47	D0600202-12	Unknown	36	Anions_Program	Anions_Method	Single	
48	D0600202-13	Unknown	37	Anions_Program	Anions_Method	Single	
49	D0600202-15	Unknown	38	Anions_Program	Anions_Method	Single	
50	D0600202-17	Unknown	39	Anions_Program	Anions_Method	Single	
51	CCVS	Unknown	34	Anions_Program	Anions_Method	Single	
52	CCB	Unknown	35	Anions_Program	Anions_Method	Single	
53	D0600230-2	Unknown	36	Anions_Program	Anions_Method	Single	
54	D0600230-4	Unknown	37	Anions_Program	Anions_Method	Single	
55	D0600230-6	Unknown	38	Anions_Program	Anions_Method	Single	
56	D0600230-8	Unknown	39	Anions_Program	Anions_Method	Single	
57	D0600230-10	Unknown	28	Anions_Program	Anions_Method	Single	
58	D0600230-12	Unknown	29	Anions_Program	Anions_Method	Single	
59	D0600230-14	Unknown	30	Anions_Program	Anions_Method	Single	
60	D0600230-16	Unknown	31	Anions_Program	Anions_Method	Single	
61	D0600223-1	Unknown	28	Anions_Program	Anions_Method	Single	
62	D0600214-1	Unknown	29	Anions_Program	Anions_Method	Single	
63	CCVS	Unknown	30	Anions_Program	Anions_Method	Single	
64	CCB	Unknown	31	Anions_Program	Anions_Method	Single	
65	END	Unknown	14	Pump Shutdown	Anions_Method	Single	

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 041906
Timebase: ICS-2000 Created: 4/19/2006 8:32:13 AM by RDDACQUWC8
#Samples: 65 Last Update: 4/19/2006 4:16:53 PM by RDDACQUWC8

No.	Dil. Factor
43	1.1000
44	1.1000
45	1.0000
46	1.0000
47	1.0000
48	1.0000
49	1.0000
50	1.0000
51	1.0000
52	1.0000
53	5.0000
54	5.0000
55	5.0000
56	5.0000
57	5.0000
58	5.0000
59	5.0000
60	1.0000
61	5.0000
62	1.0000
63	1.0000
64	1.0000
65	1.0000

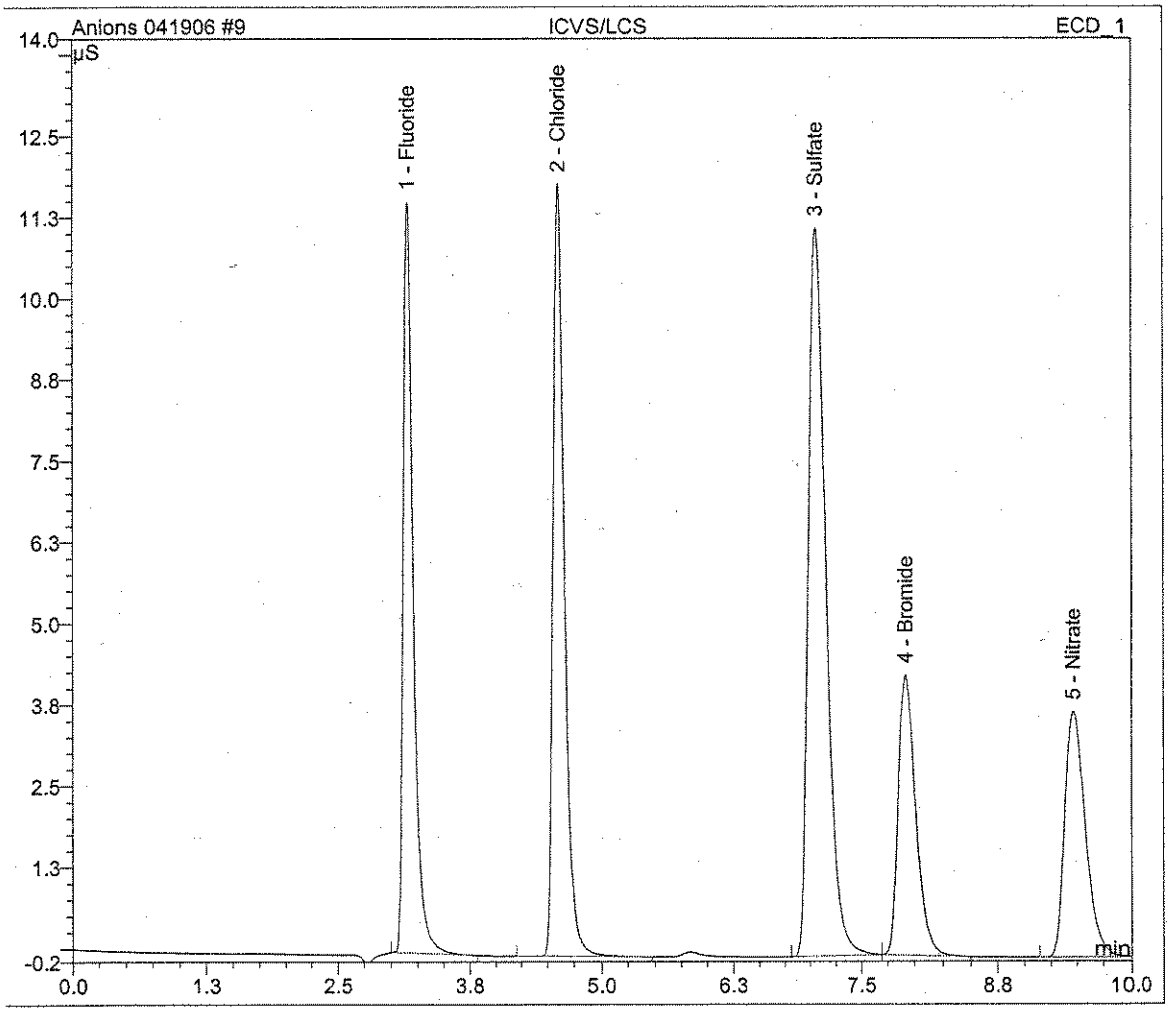
Sample Name:	**Rinse**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 09:32**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	4.67	Chloride	bMB	0.133	0.658	0.5052
5	7.33	Sulfate	BMB	1.259	5.368	5.6476
		TOTAL:		1.39	6.03	6.15



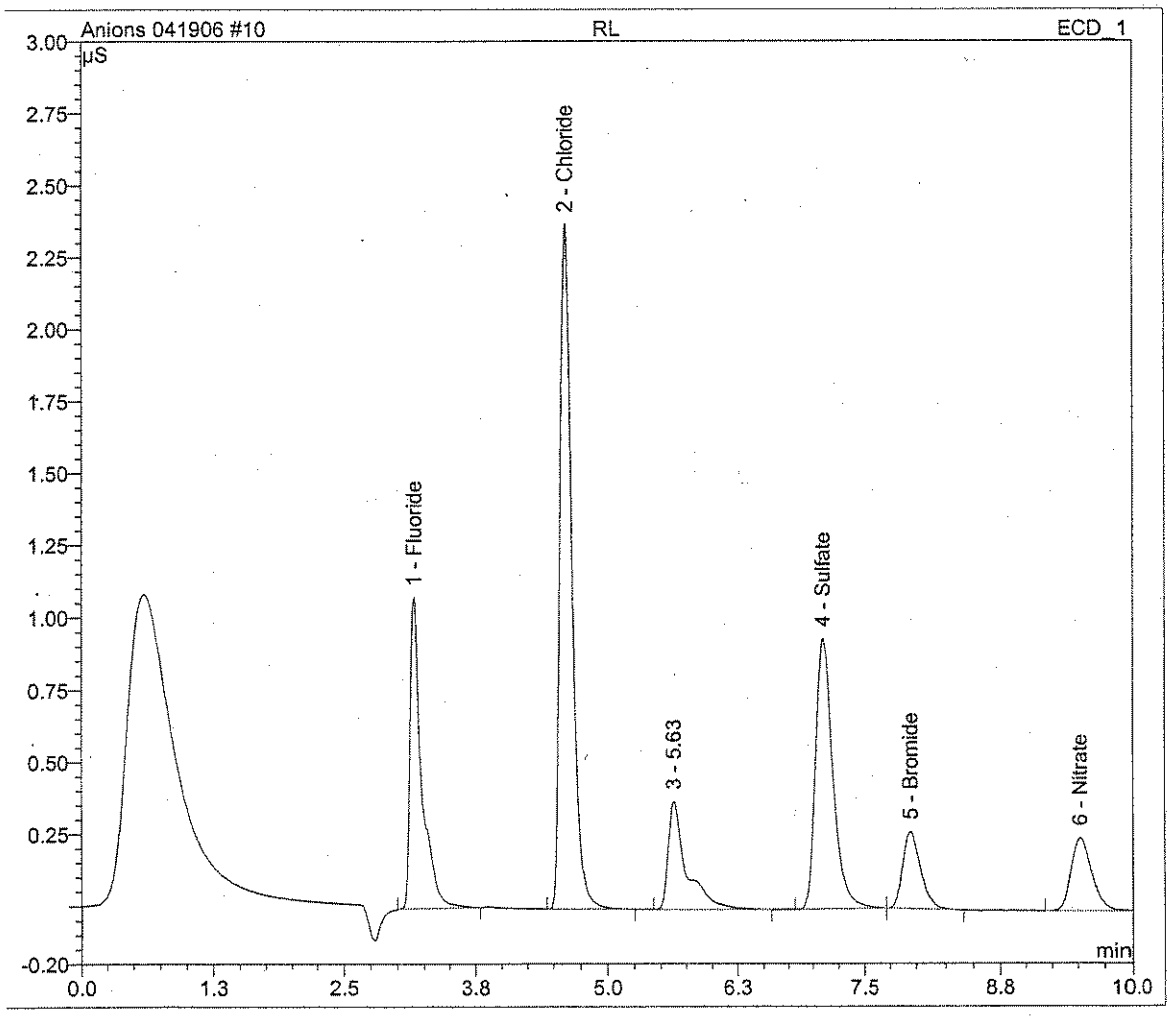
Sample Name:	**ICVS/LCS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 09:46**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.16	Fluoride	BMB	1.273	11.547	2.5893
2	4.61	Chloride	BMB	1.493	11.882	4.9209
3	7.07	Sulfate	BMb	2.185	11.196	9.6743
4	7.93	Bromide	bMB	0.811	4.302	6.2998
5	9.47	Nitrate	BMB	0.873	3.773	1.1853
		TOTAL:		6.63	42.70	24.67



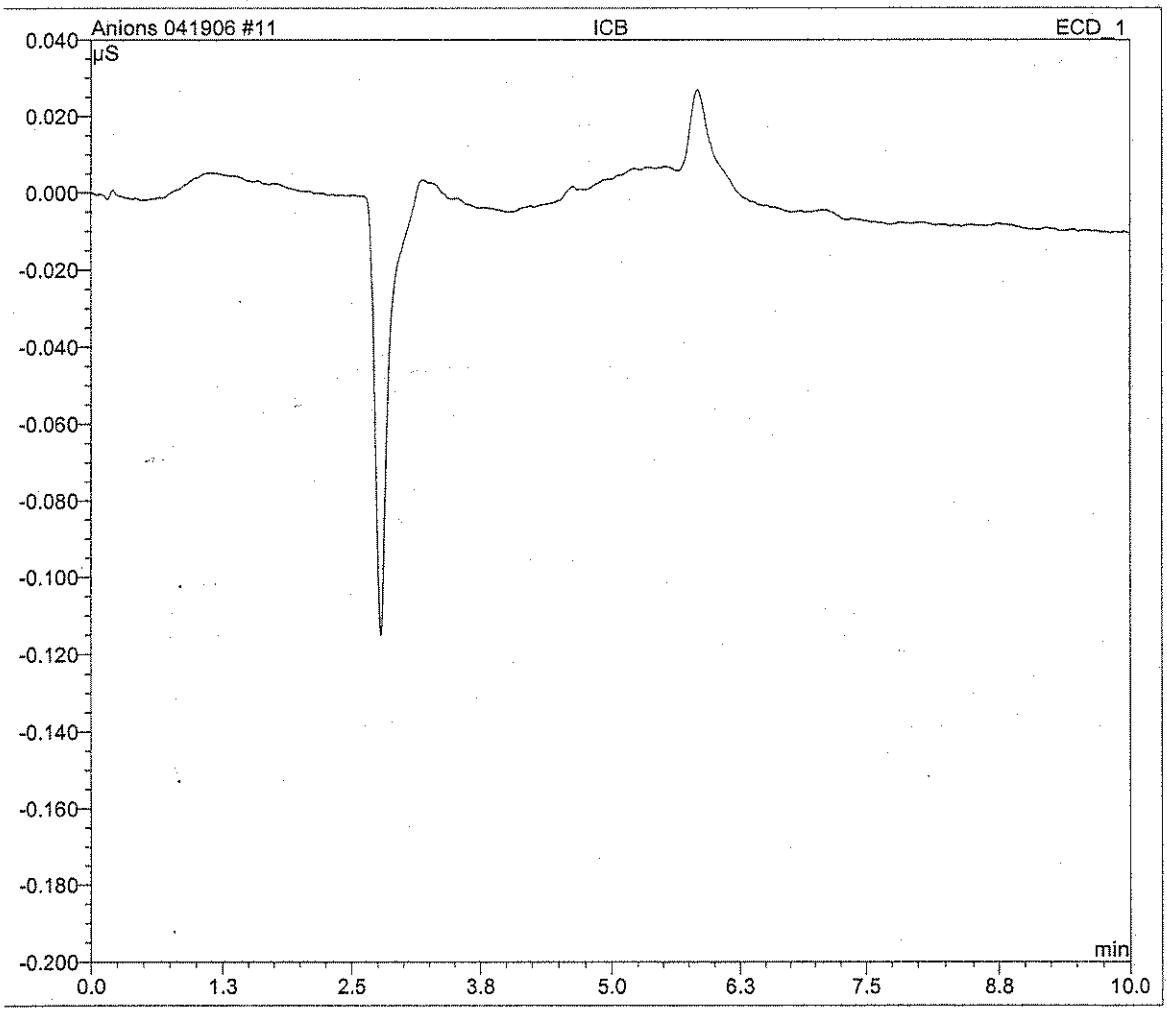
Sample Name:	**RL**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 10:01**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.16	Fluoride	BMB	0.138	1.078	0.2222
2	4.61	Chloride	BMB	0.295	2.374	1.0313
4	7.10	Sulfate	BMb	0.185	0.937	0.9774
5	7.95	Bromide	bMB	0.051	0.267	0.6573
6	9.52	Nitrate	BMB	0.058	0.253	0.1336
TOTAL:				0.73	4.91	3.02



Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 10:15**	*Run Time:*	**12.00**

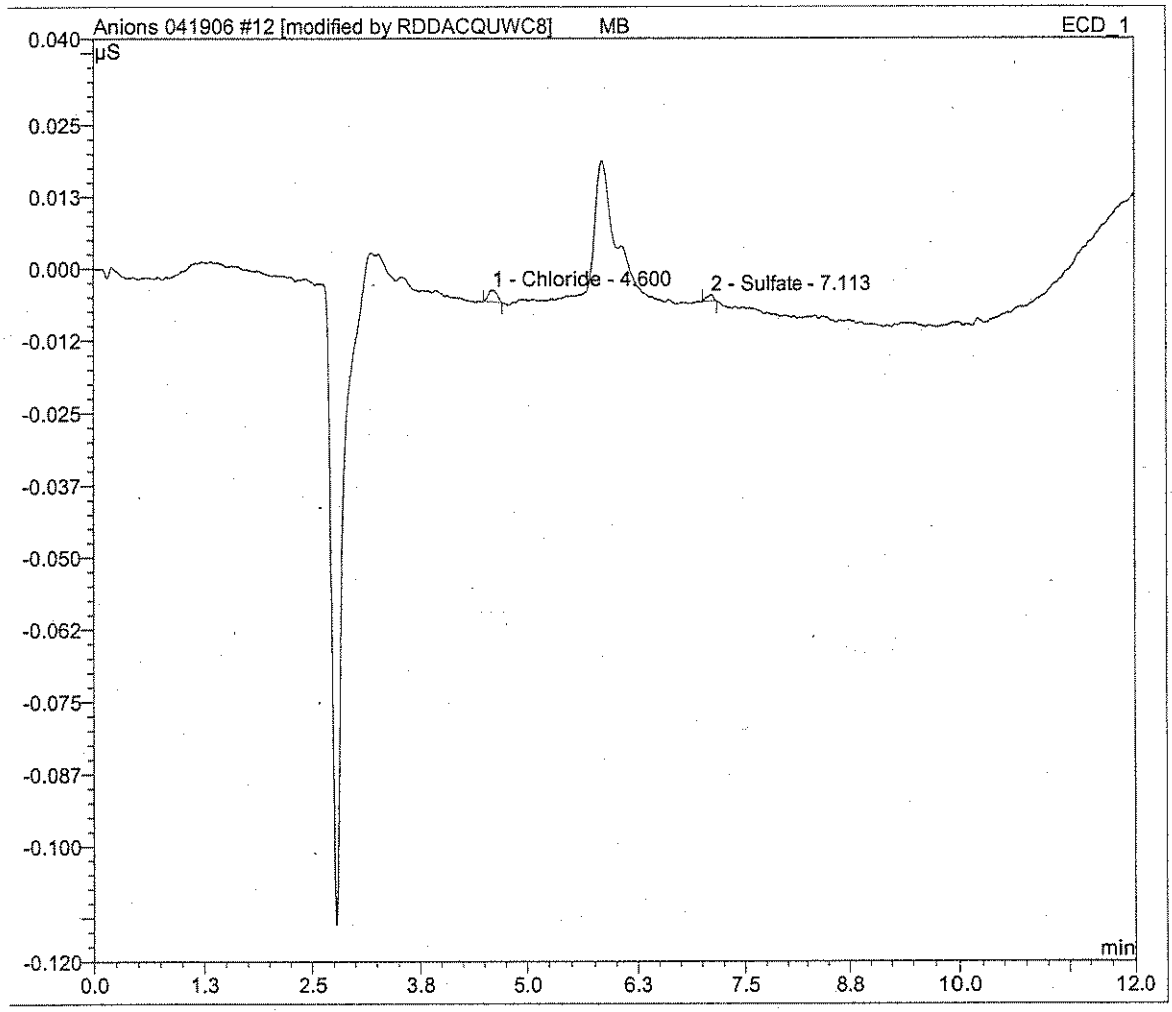
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
		TOTAL:		0.00	0.00	0.00



Manually Adjusted
LS 4/20/06

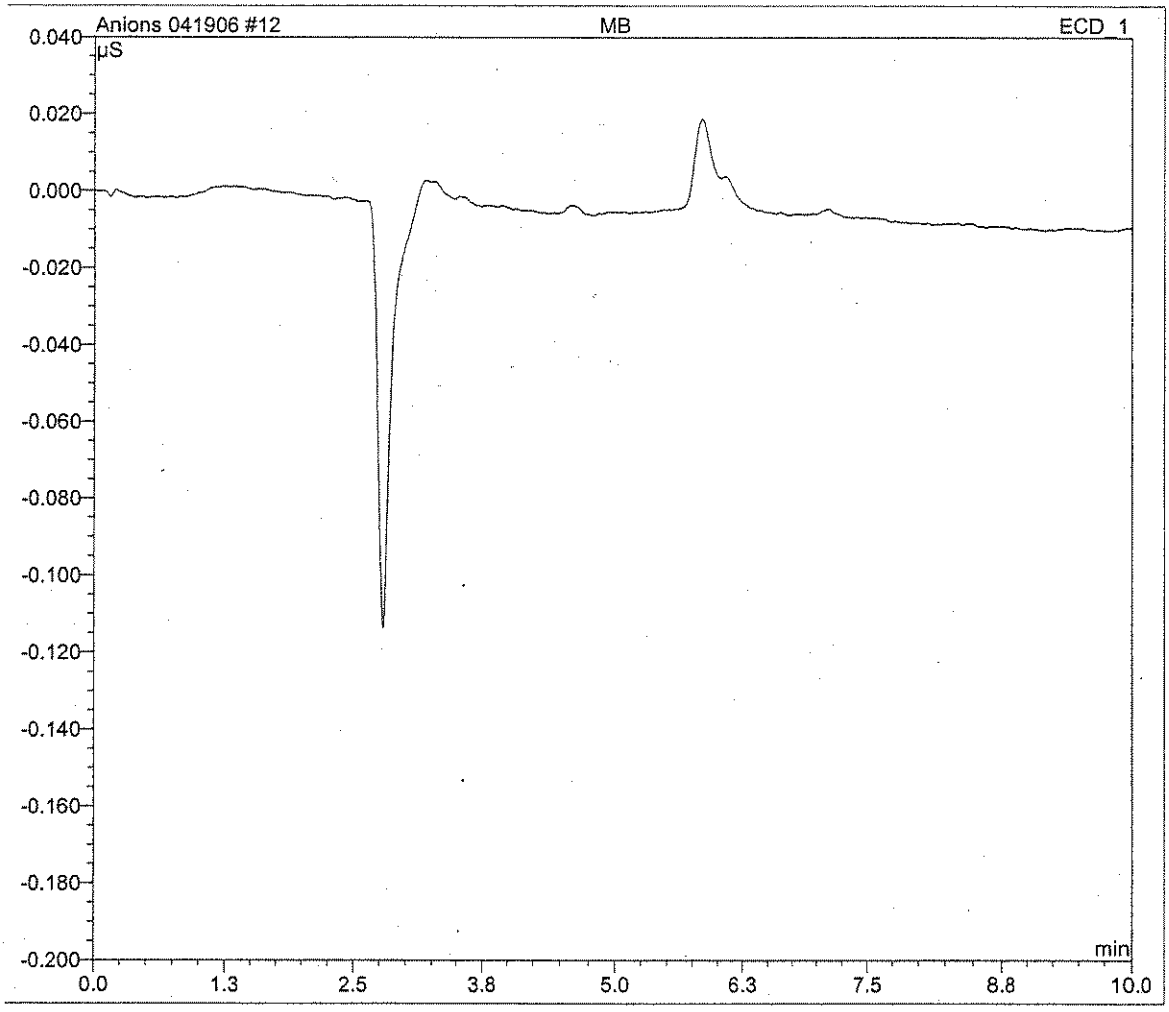
Sample Name:	**MB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 10:30**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	4.60	Chloride	BMB*	0.000	0.002	0.0738
2	7.11	Sulfate	BMB*	0.000	0.001	0.1716
TOTAL:				0.00	0.00	0.25



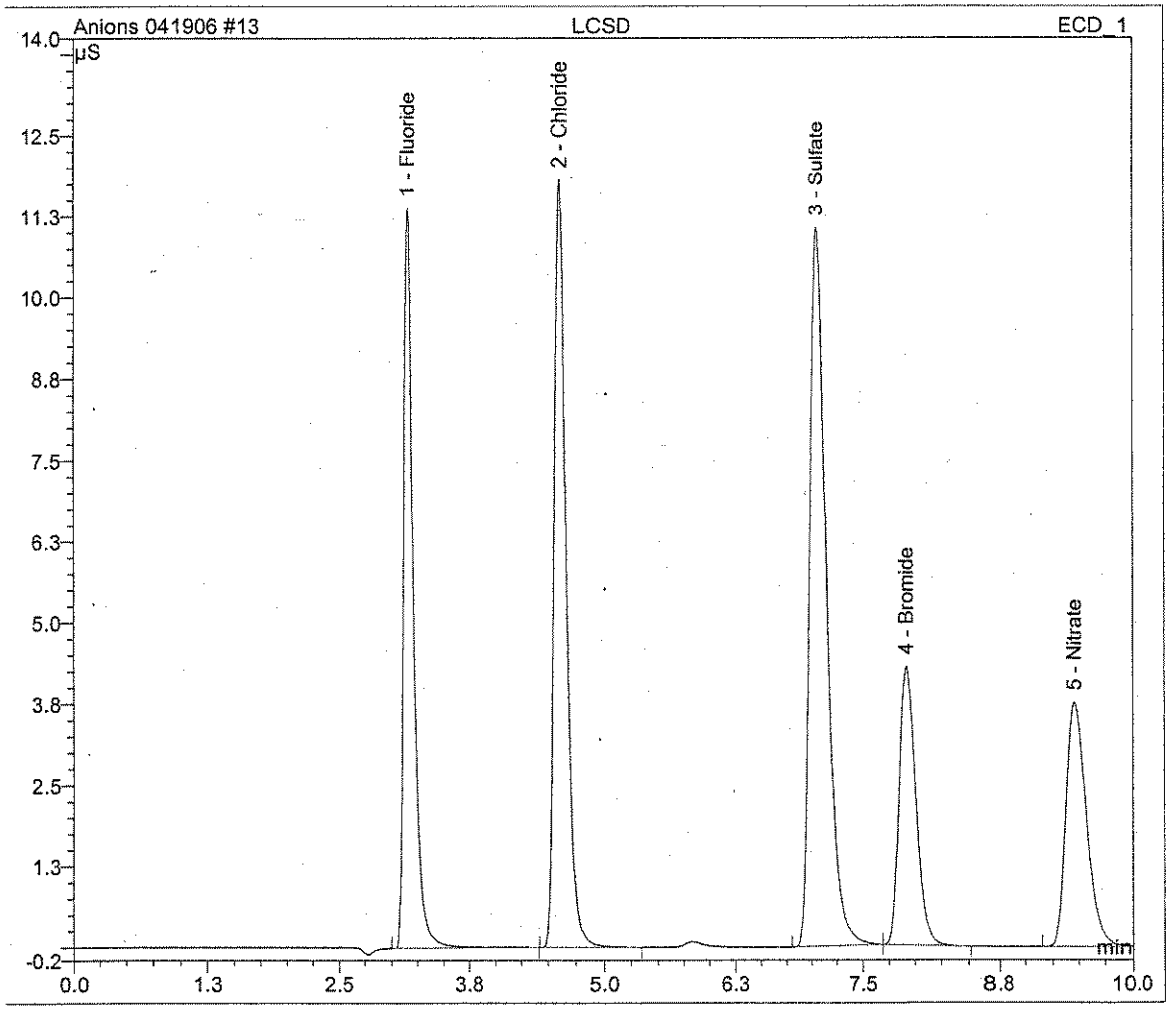
Sample Name:	**MB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 10:30**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
		TOTAL:		0.00	0.00	0.00



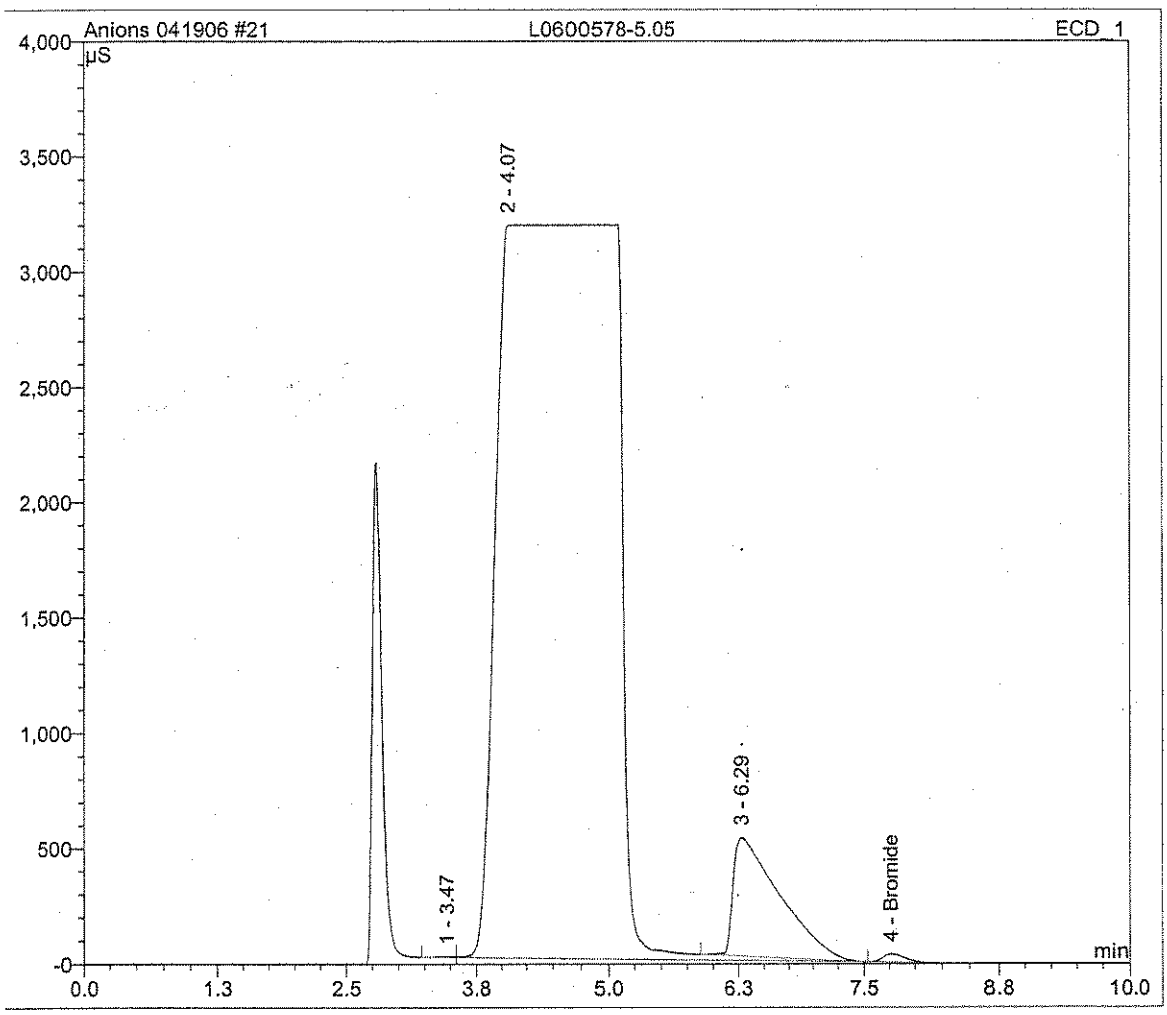
Sample Name:	**LCSD**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 10:45**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.16	Fluoride	BMB	1.259	11.380	2.5604
2	4.61	Chloride	BMB	1.481	11.815	4.8826
3	7.06	Sulfate	BMb	2.171	11.062	9.6128
4	7.92	Bromide	bMB	0.804	4.287	6.2508
5	9.47	Nitrate	BMB	0.866	3.762	1.1764
		TOTAL:		6.58	42.31	24.48



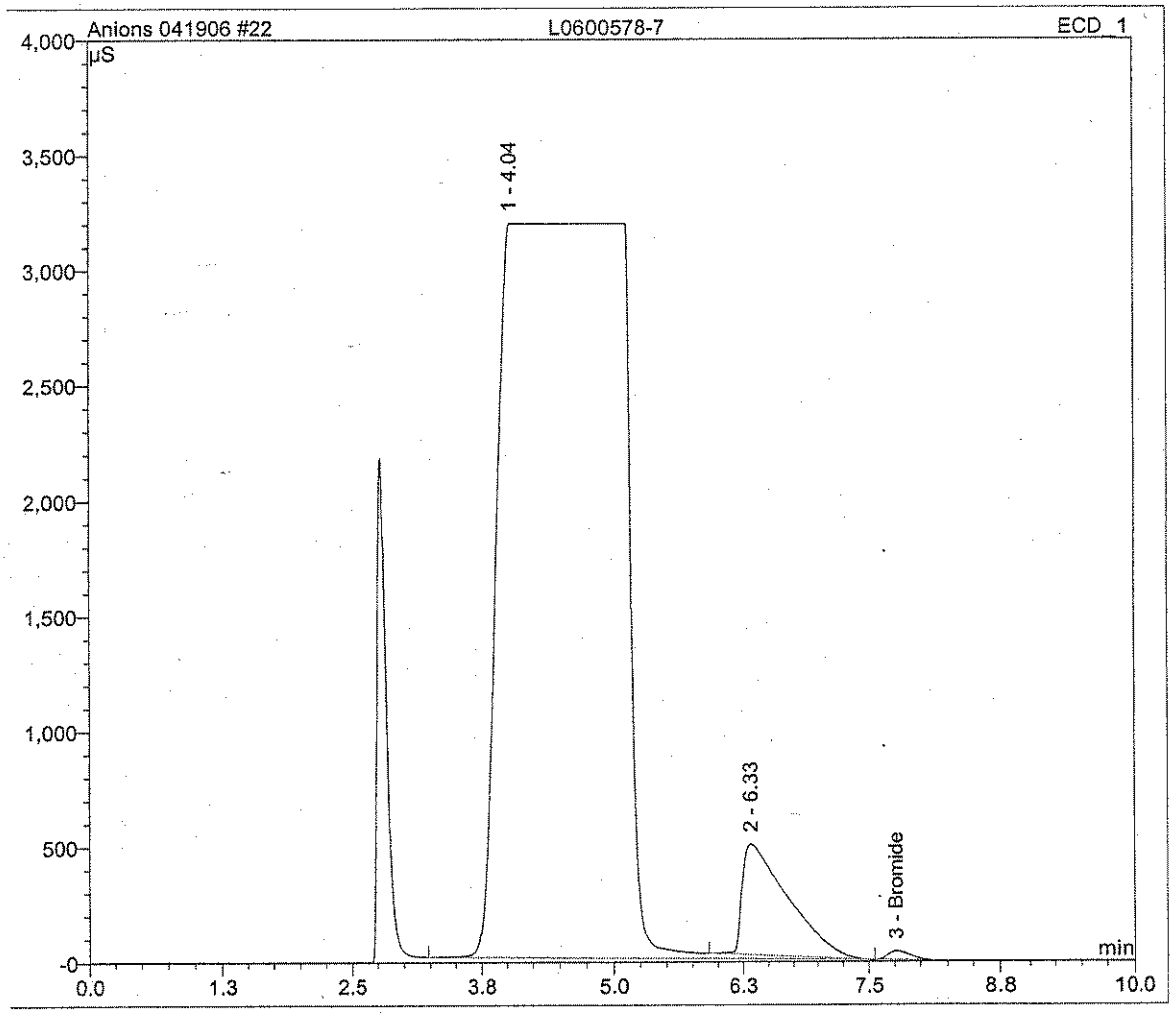
Sample Name:	**L0600578-5.05**	*Inj. Vol:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 12:41**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
4	7.77	Bromide	BMB	9.072	35.488	67.6614
		TOTAL:		9.07	35.49	67.66



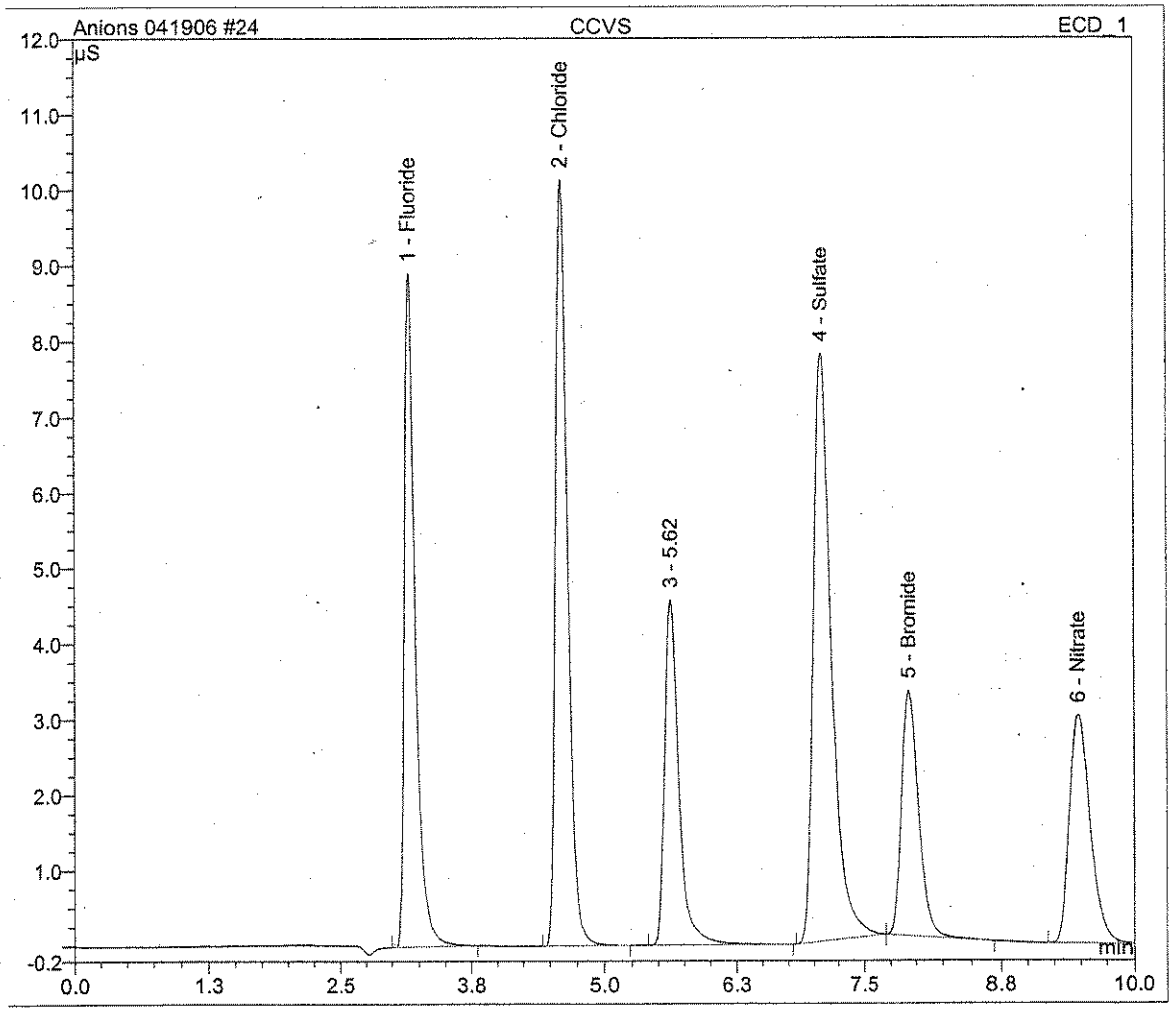
Sample Name:	**L0600578-7**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 12:56**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
3	7.77	Bromide	BMB	9.706	37.830	72.3703
		TOTAL:		9.71	37.83	72.37



Sample Name:	**CCVS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 13:25**	*Run Time:*	**12.00**

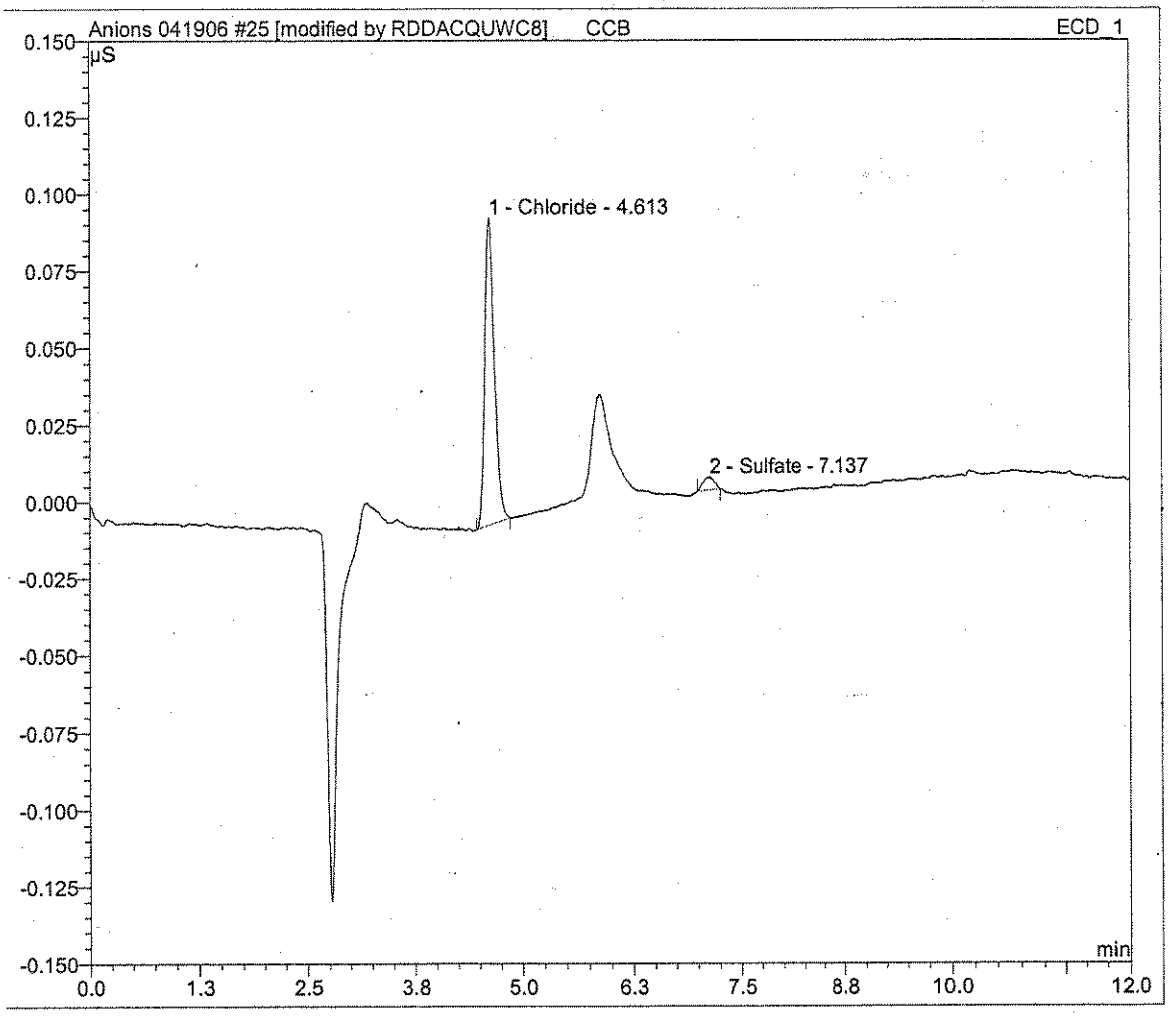
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.16	Fluoride	BMB	1.050	8.896	2.1240
2	4.61	Chloride	BMB	1.306	10.132	4.3126
4	7.08	Sulfate	BMb	1.672	7.775	7.4443
5	7.93	Bromide	bMB	0.624	3.240	4.9177
6	9.48	Nitrate	BMB	0.704	3.020	0.9676
		TOTAL:		5.36	33.06	19.77



Manually Adjusted
LS 4/20/06

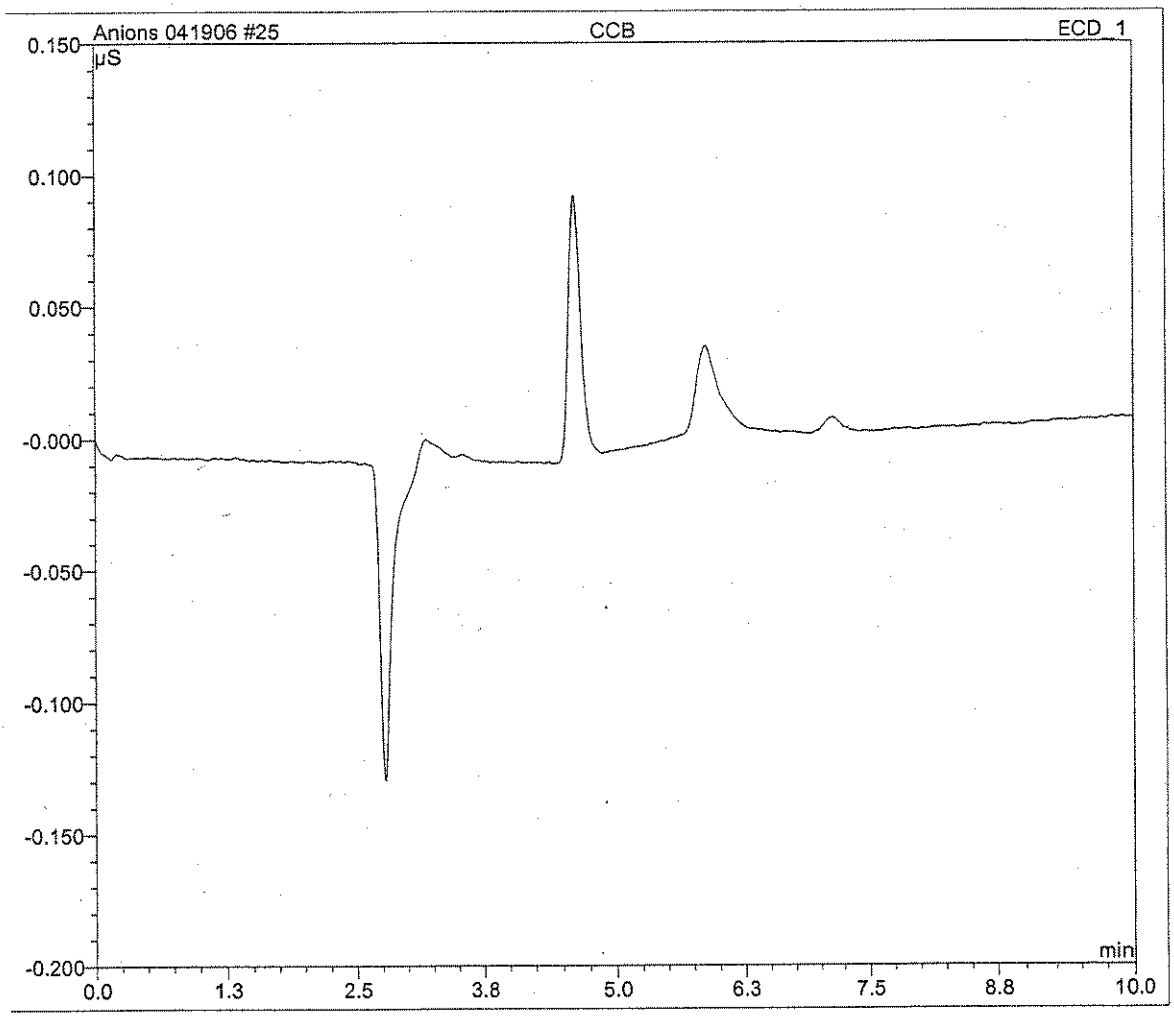
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 13:40**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	4.61	Chloride	BMB*	0.013	0.100	0.1154
2	7.14	Sulfate	BMB*	0.001	0.004	0.1738
		TOTAL:		0.01	0.10	0.29



Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**19.04.06 13:40**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
		TOTAL:		0.00	0.00	0.00



GC/MS VOLATILE ORGANICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Volatile Organic Compounds

Sample Name: B131-MW2D
Lab Code: L0600578-005

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloromethane	ND	U	0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
Vinyl chloride	**0.35**	J	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromomethane	ND	U	0.23	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloroethane	ND	U	0.19	1.0	1	04/12/2006	04/12/2006	U0412W01	
Trichlorofluoromethane	ND	U	0.22	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.16	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethene	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Acetone	**3.7**	J	0.74	10	1	04/12/2006	04/12/2006	U0412W01	
Carbon disulfide	**0.34**	J	0.17	2.0	1	04/12/2006	04/12/2006	U0412W01	
Methylene chloride	ND	U	0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
trans-1,2-Dichloroethene	**1.2**		0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tert-butylmethylether	ND	U	0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethane	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Vinyl acetate	ND	U	0.18	10	1	04/12/2006	04/12/2006	U0412W01	
2,2-Dichloropropane	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
cis-1,2-Dichloroethene	**10**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Butanone	ND	U	0.44	10	1	04/12/2006	04/12/2006	U0412W01	
Bromochloromethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Chloroform	**0.22**	J	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1-Trichloroethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Carbon tetrachloride	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Benzene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloroethane	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Trichloroethene	**1.9**		0.21	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloropropane	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Dibromomethane	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromodichloromethane	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
4-methyl-2-pentanone	ND	U	0.40	10	1	04/12/2006	04/12/2006	U0412W01	
Toluene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
trans-1,3-Dichloropropene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tetrachloroethene	**5.9**		0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichloropropane	ND	U	0.12	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Hexanone	ND	U	0.54	10	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Volatile Organic Compounds

Sample Name: B131-MW2D
Lab Code: L0600578-005

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.11	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromoethane	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chlorobenzene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1,2-Tetrachloroethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Ethylbenzene	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
m-,p-Xylene	ND	U	0.29	1.0	1	04/12/2006	04/12/2006	U0412W01	
o-Xylene	ND	U	0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Xylene (total)	ND	U	0.11	1.5	1	04/12/2006	04/12/2006	U0412W01	
Styrene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromoform	ND	U	0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
Isopropylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2,2-Tetrachloroethane	ND	U	0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromobenzene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichloropropane	ND	U	0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Propylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
2-Chlorotoluene	ND	U	0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3,5-Trimethylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
tert-Butylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
sec-Butylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichlorobenzene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
p-Isopropyltoluene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,4-Dichlorobenzene	**0.14**	J	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Butylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromo-3-chloropropane	ND	U	0.53	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trichlorobenzene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Hexachlorobutadiene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Naphthalene	ND	U	0.090	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Volatile Organic Compounds

Sample Name: B131-MW2D
Lab Code: L0600578-005

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

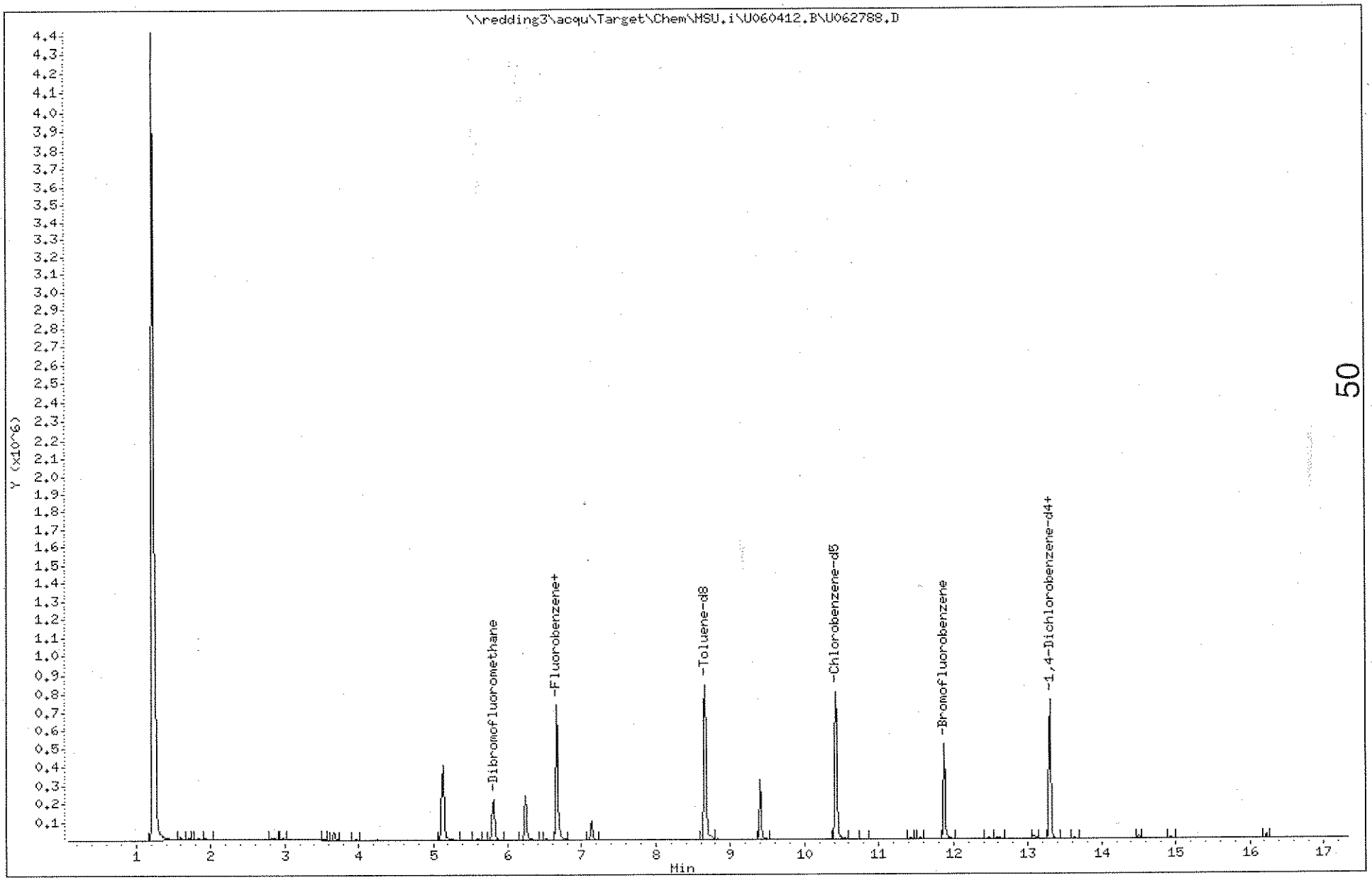
Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	101	88-119	04/12/2006	
Dibromofluoromethane - SS	100	87-123	04/12/2006	
Toluene-d8 - SS	98	82-115	04/12/2006	

Comments: _____

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D
Date : 12-APR-2006 19:52
Client ID: B131-MW2D
Sample Info: L0600578-005
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: X
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D
Lab Smp Id: L0600578-005 Client Smp ID: B131-MW2D
Inj Date : 12-APR-2006 19:52
Operator : X Inst ID: MSU.i
Smp Info : L0600578-005
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\8260wCanoga.m
Meth Date : 14-Apr-2006 10:28 MSU.i Quant Type: ISTD
Cal Date : 28-MAR-2006 16:56 Cal File: U062457.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Canoga-LJ964.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	6.668	6.668	(1.000)	757357	10.0000	
*	2 Chlorobenzene-d5	117	10.424	10.425	(1.000)	518600	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.300	13.301	(1.000)	224427	10.0000	
$	4 Dibromofluoromethane	113	5.807	5.807	(0.871)	161886	10.0173	10.0
$	6 Toluene-d8	98	8.662	8.663	(0.831)	636191	9.80846	9.8
$	7 Bromofluorobenzene	174	11.883	11.883	(0.893)	173164	10.0683	10.1
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	1.615	1.615	(0.242)	6215	0.35355 ✓	0.35(a)
	12 Bromomethane	94	Compound Not Detected.					
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	17 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	2.830	2.830	(0.424)	16359	3.72835 ✓	3.7(a)
	20 Carbon disulfide	76	2.972	2.972	(0.446)	11803	0.33611 ✓	0.34(a)
	21 Methylene chloride	84	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	3.670	3.671	(0.550)	22015	1.19570 ✓	1.2
	26 tert-Butylmethylether	73	Compound Not Detected.					
	27 1,1-Dichloroethane	63	Compound Not Detected.					
	29 Vinyl acetate	43	Compound Not Detected.					
	31 2,2-Dichloropropane	77	Compound Not Detected.					

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4/16/06

06/4-14-06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	cis-1,2-Dichloroethene	96	5.128	5.129	(0.769)	219769	10.3775	10.4
34	2-Butanone	43	5.199	5.190	(0.780)	7546	0.82648	0.83(a)
35	Bromochloromethane	128	Compound Not Detected.					
36	Chloroform	83	5.584	5.585	(0.838)	6858	0.21969	0.22(a)
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
39	1,1-Dichloropropene	75	Compound Not Detected.					
40	Carbon tetrachloride	119	Compound Not Detected.					
42	Benzene	78	Compound Not Detected.					
43	1,2-Dichloroethane	62	6.668	6.334	(1.000)	8974	0.38369	0.38(a)
45	Trichloroethene	95	7.133	7.134	(1.070)	36036	1.91861	1.9
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	9.402	9.402	(0.902)	107543	5.88595	5.9
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
75	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	13.331	13.220	(1.002)	4883	0.14171	0.14(a)
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	4883	0.13684	0.14(a)
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

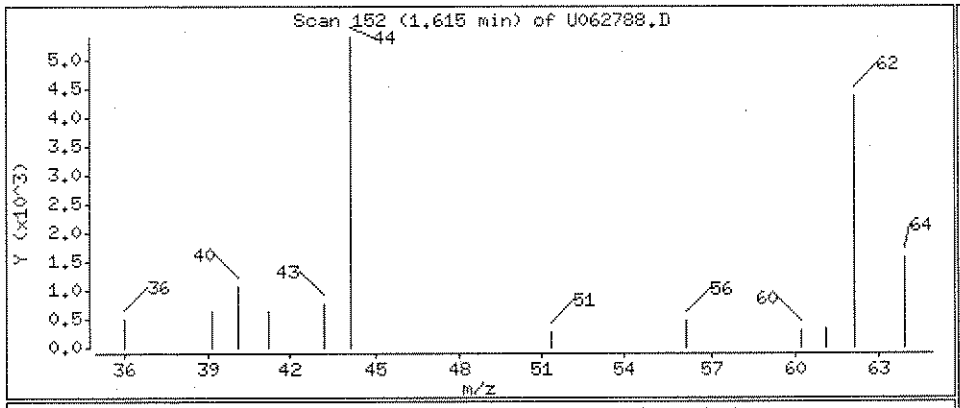
Operator: X

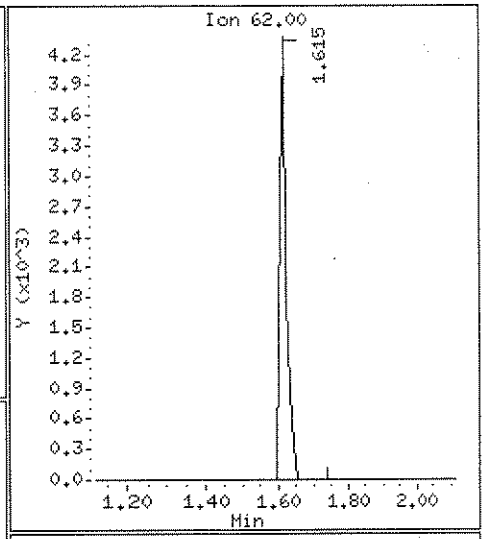
Column phase: DB-624

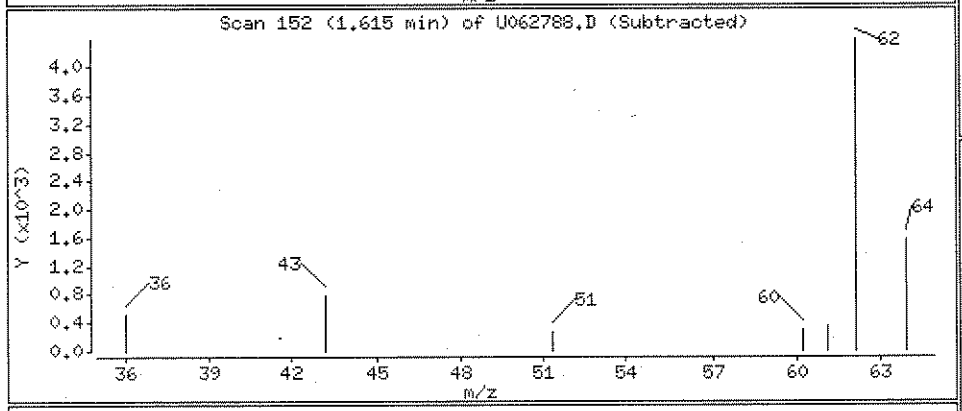
Column diameter: 0.32

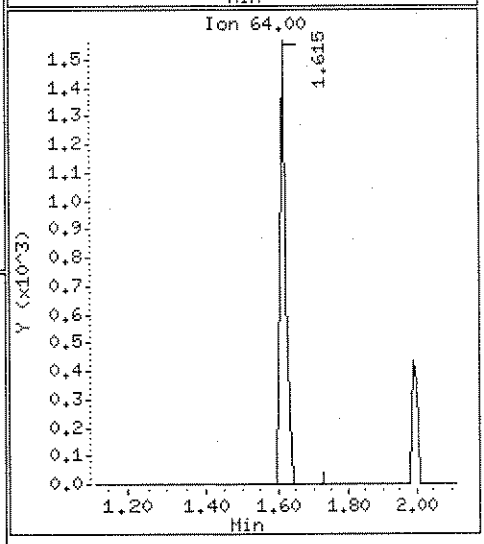
11 Vinyl chloride

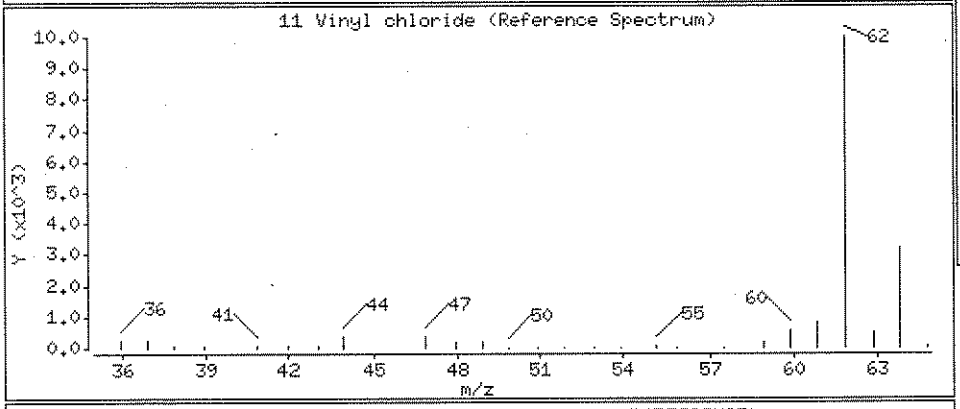
Concentration: 0.35 ug/L

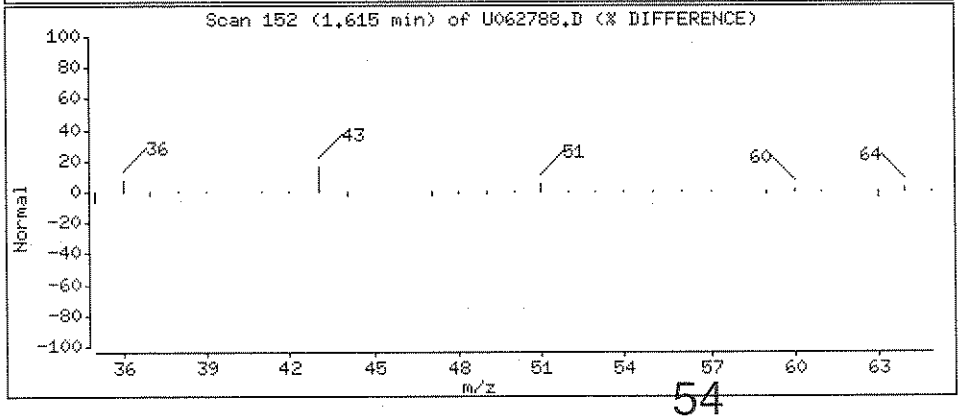












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

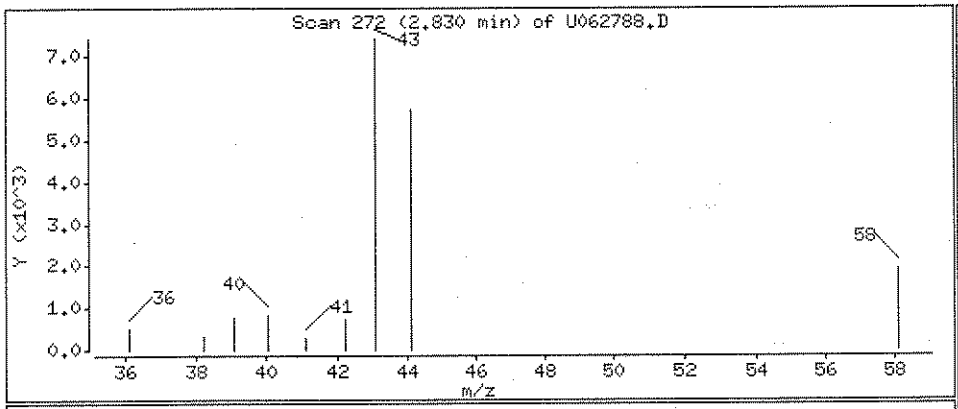
Operator: X

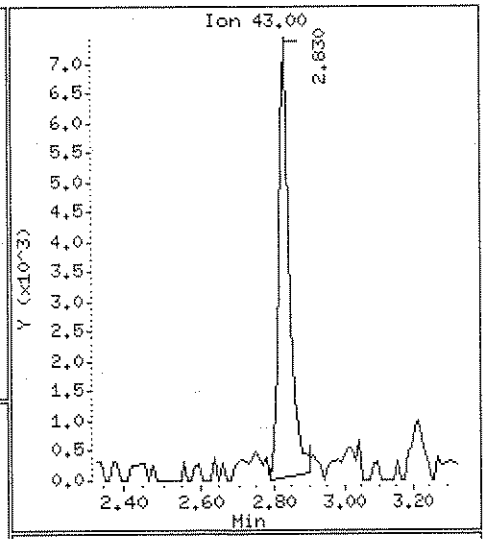
Column phase: DB-624

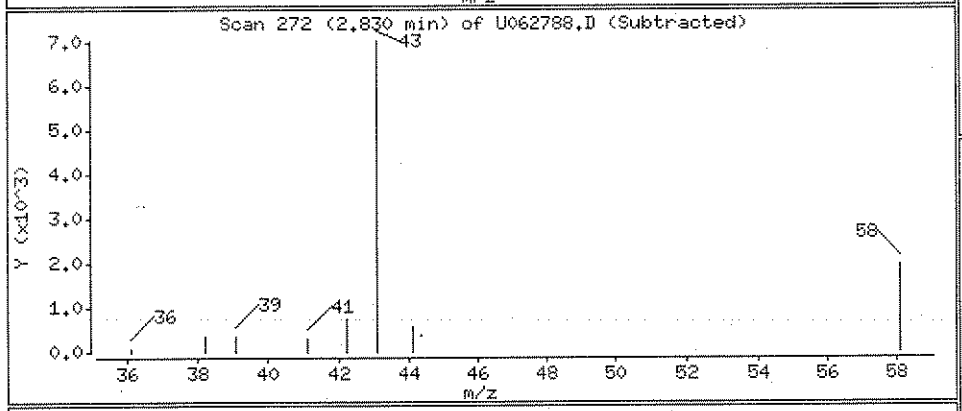
Column diameter: 0.32

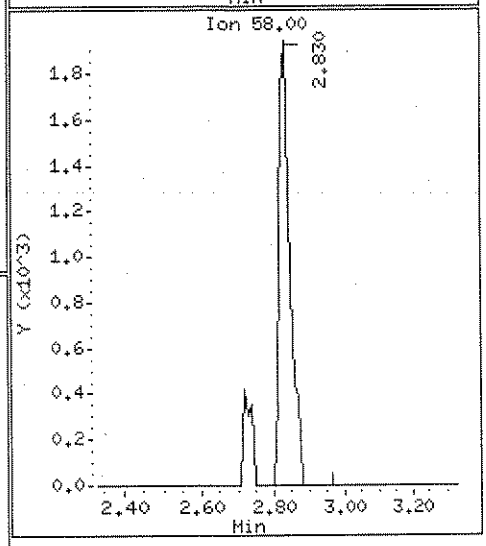
18 Acetone

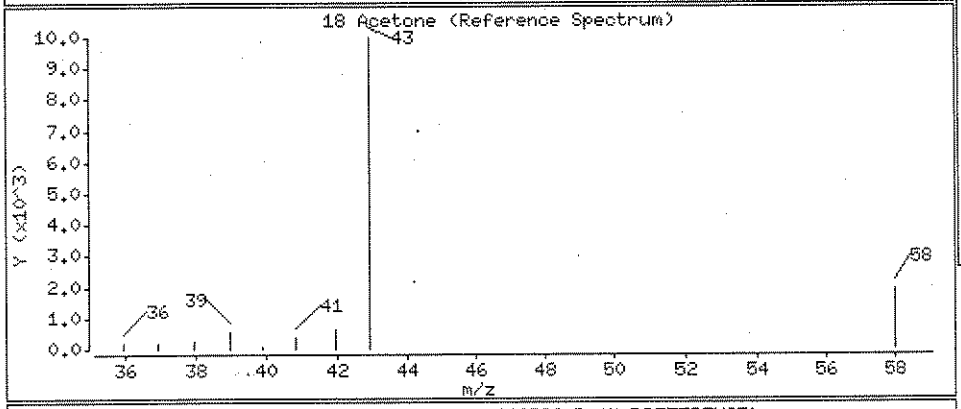
Concentration: 3.7 ug/L

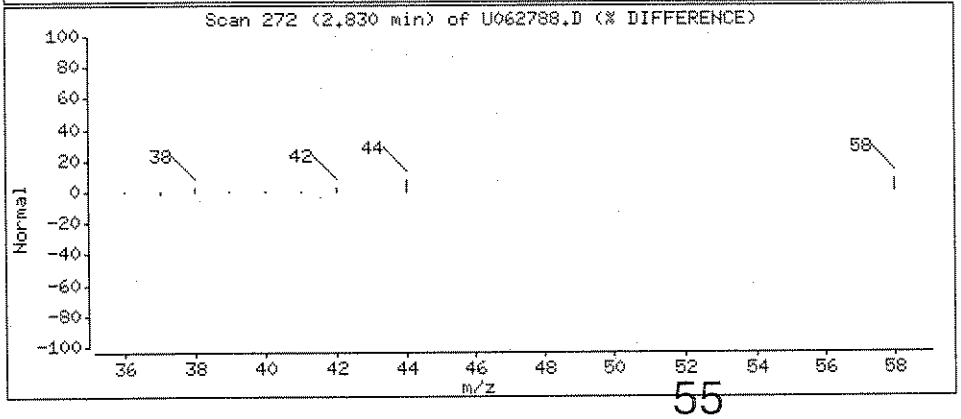












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

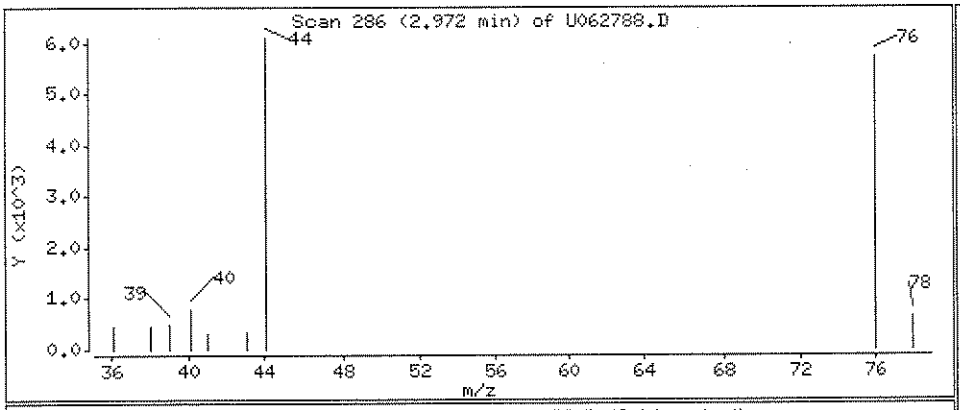
Operator: X

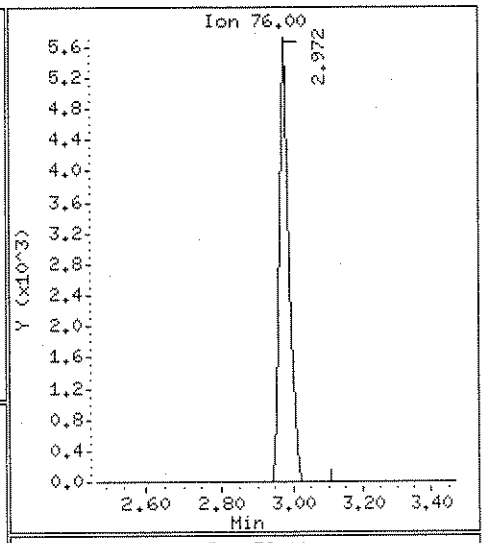
Column phase: DB-624

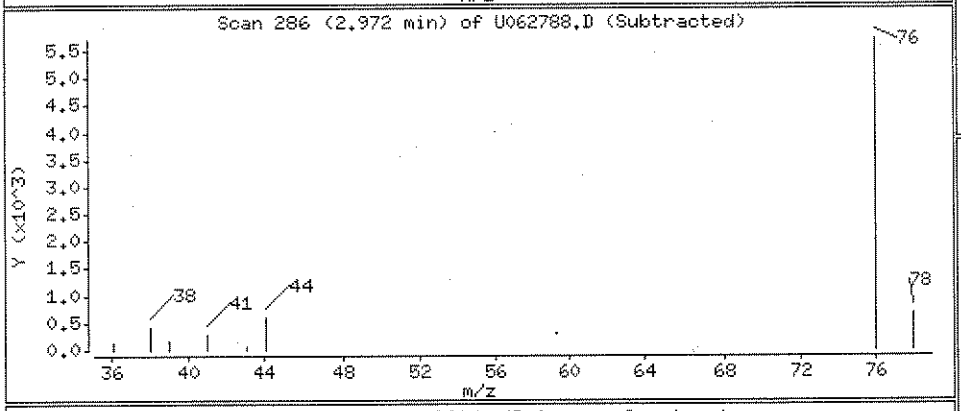
Column diameter: 0.32

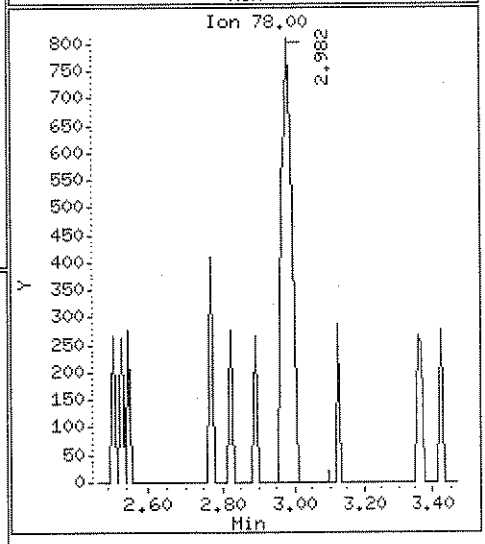
20 Carbon disulfide

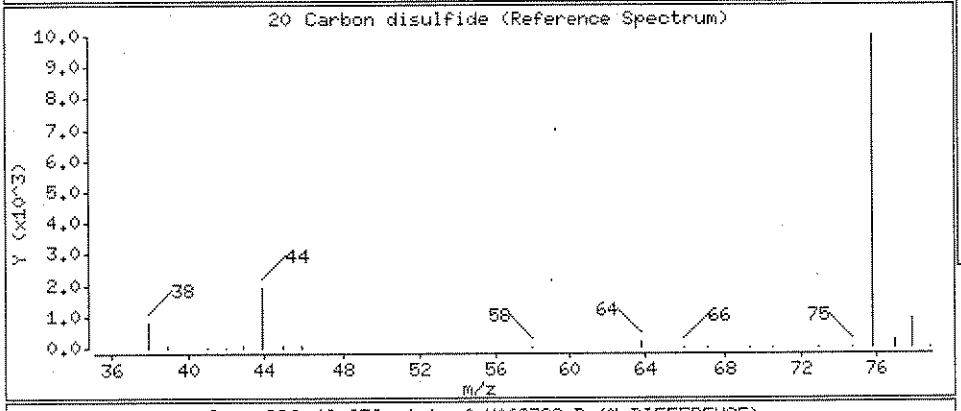
Concentration: 0.34 ug/L

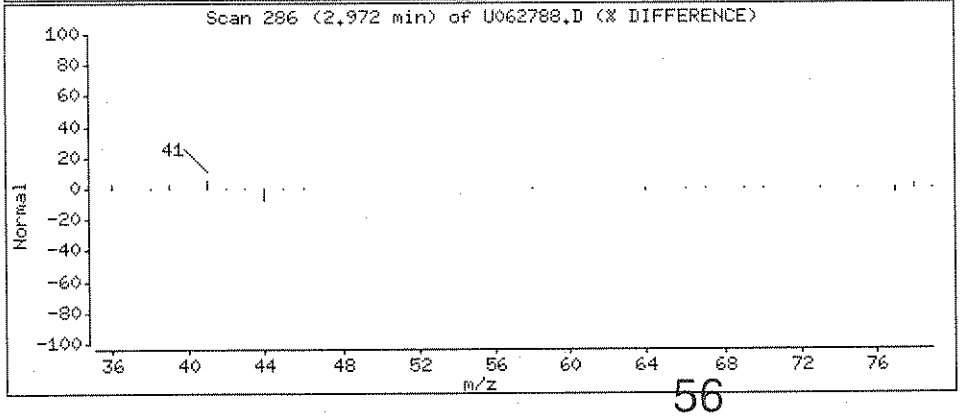












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

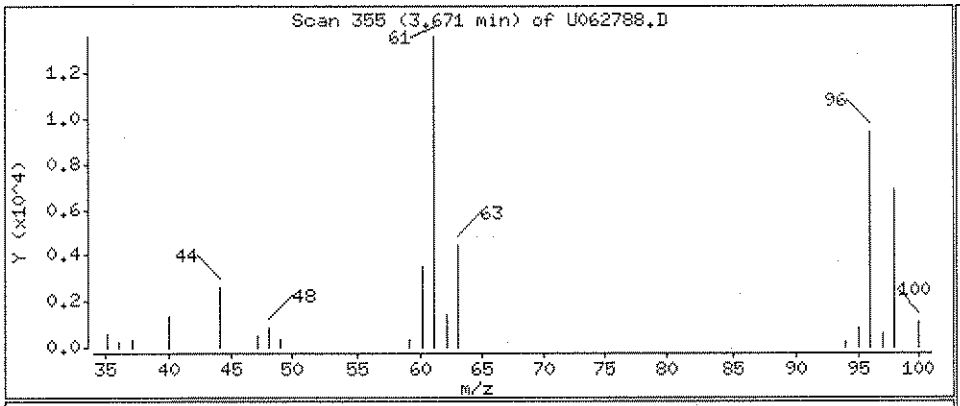
Operator: X

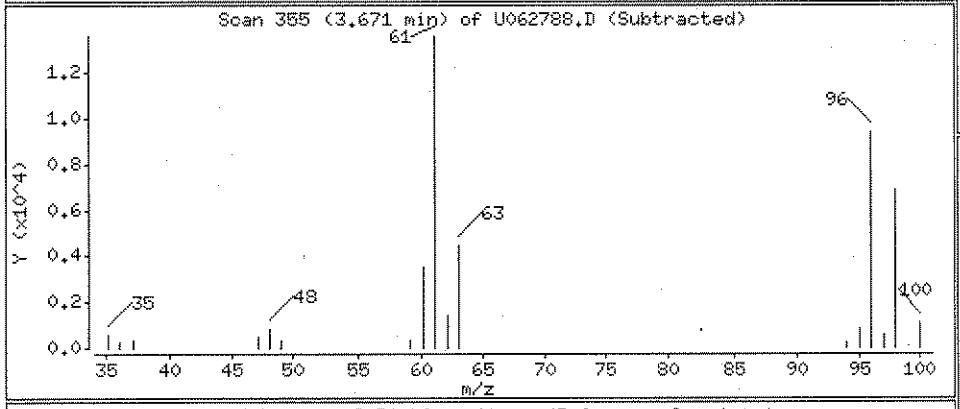
Column phase: DB-624

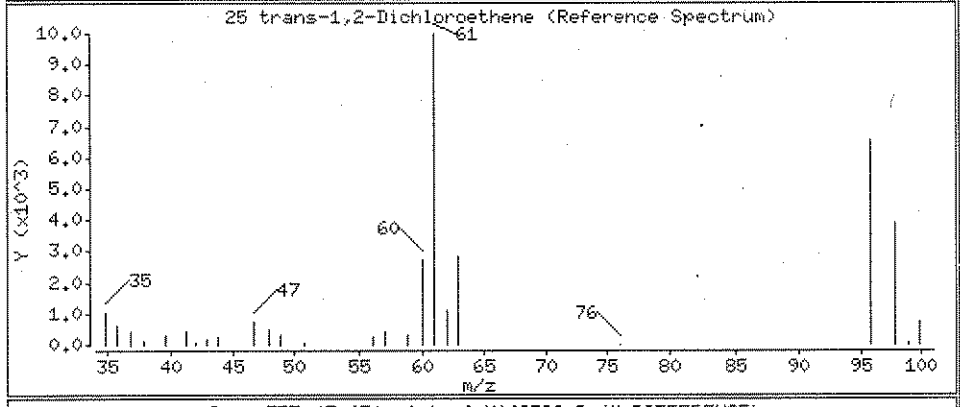
Column diameter: 0.32

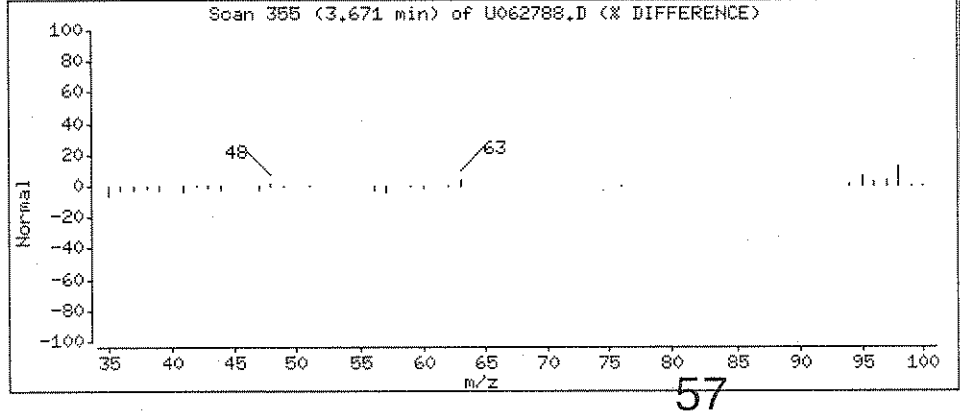
25 trans-1,2-Dichloroethene

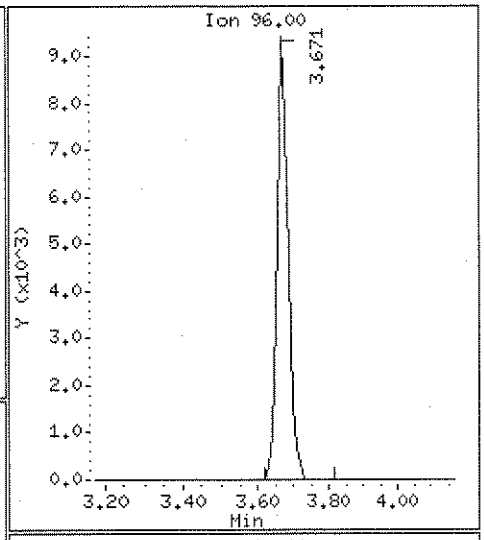
Concentration: 1.2 ug/L

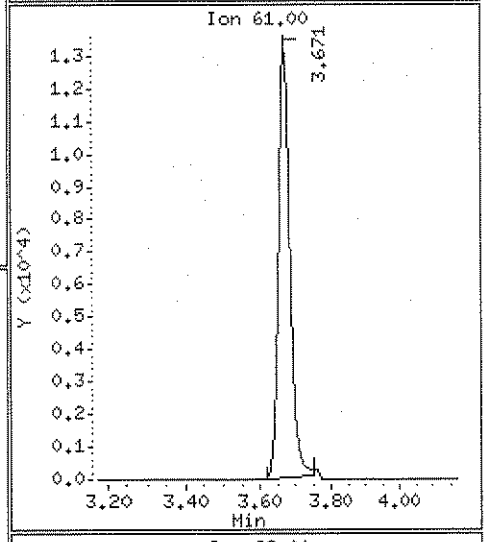


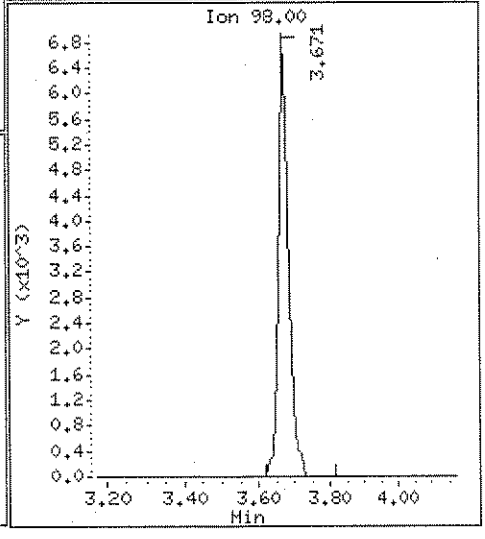












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

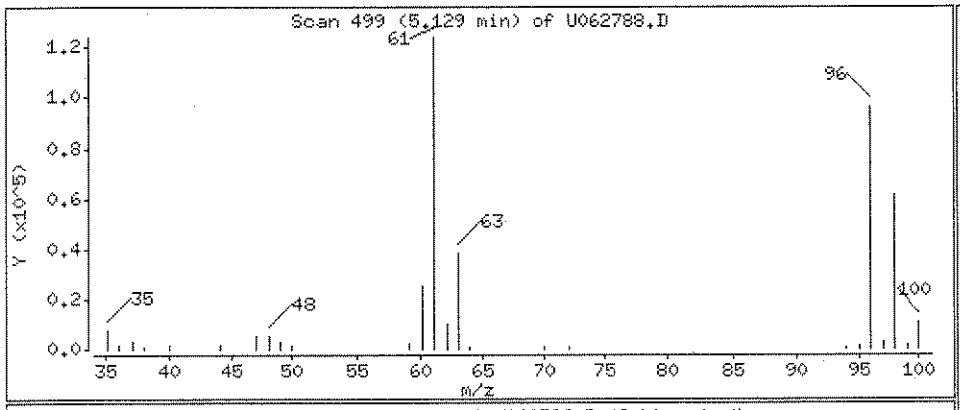
Operator: X

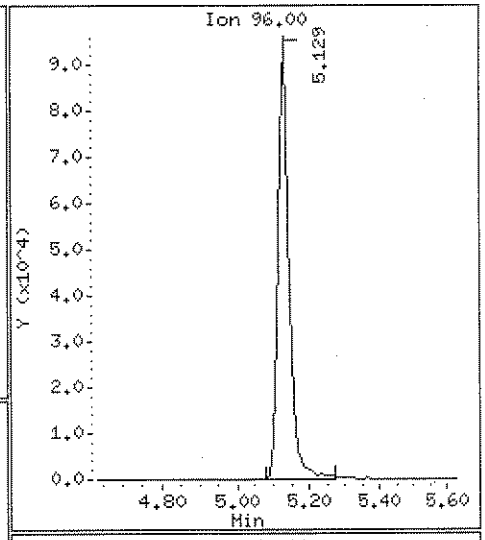
Column phase: DB-624

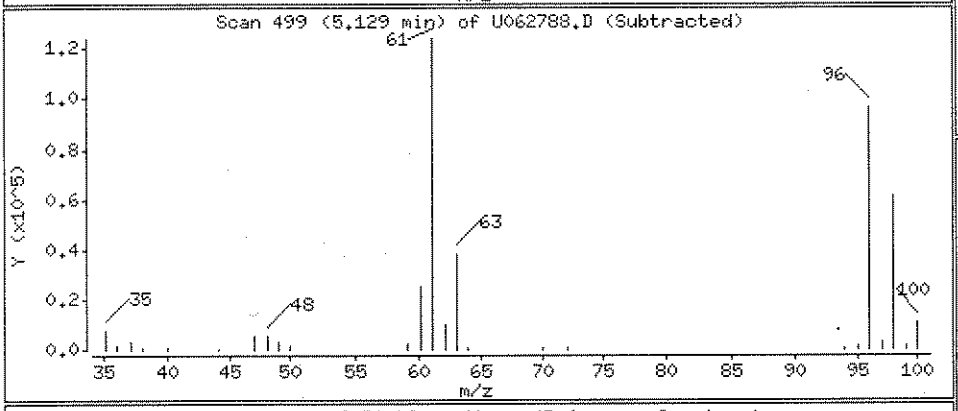
Column diameter: 0.32

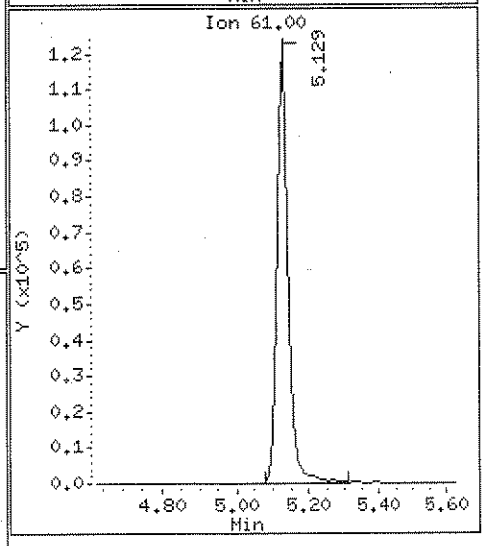
32 cis-1,2-Dichloroethene

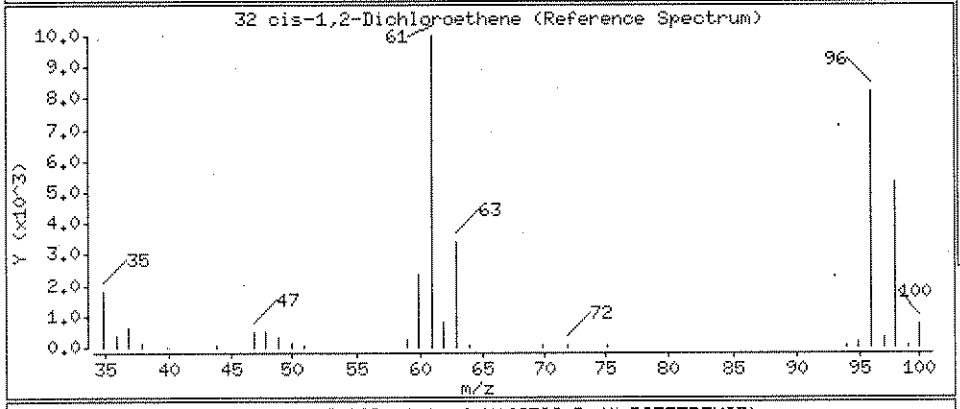
Concentration: 10.4 ug/L

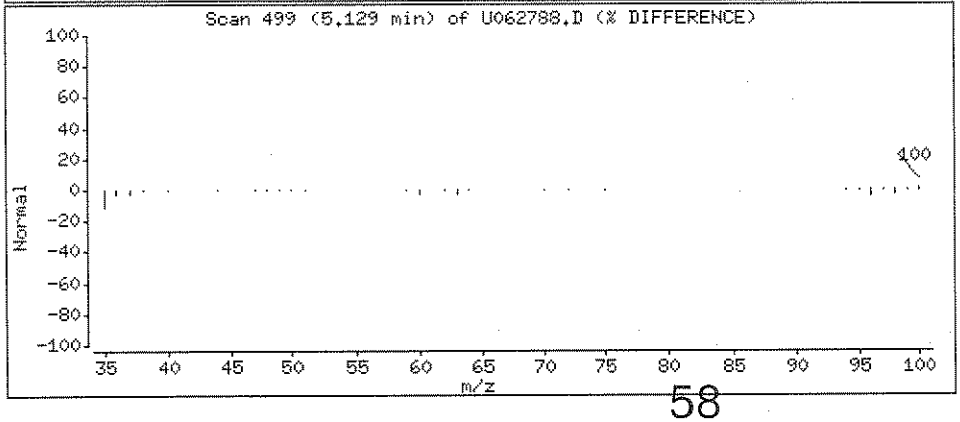












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

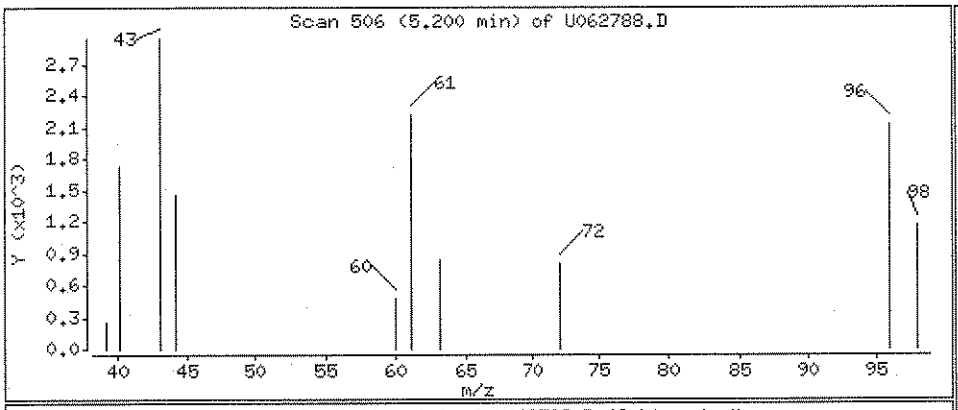
Operator: X

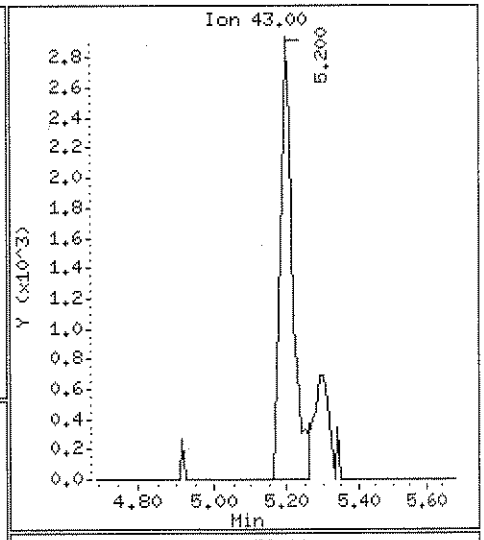
Column phase: DB-624

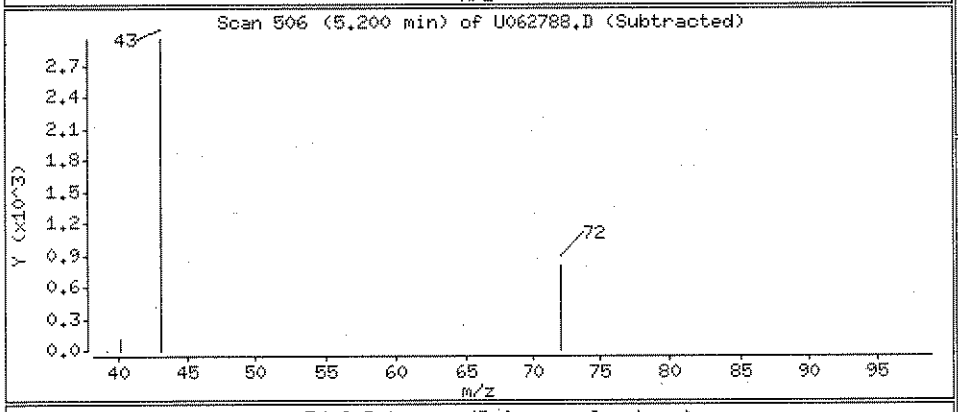
Column diameter: 0.32

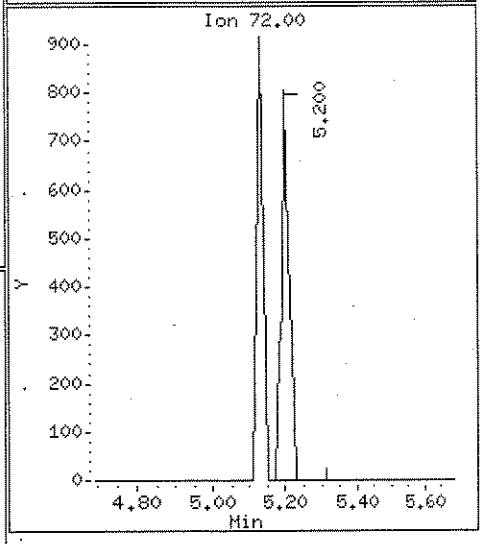
34 2-Butanone

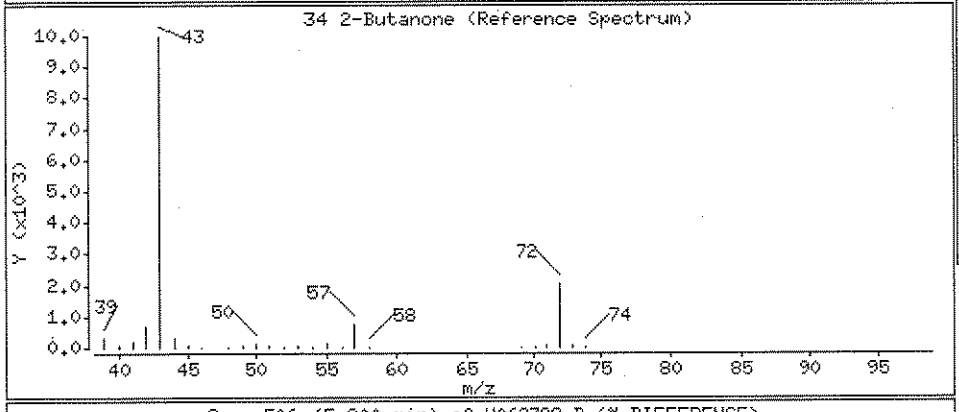
Concentration: 0.83 ug/L

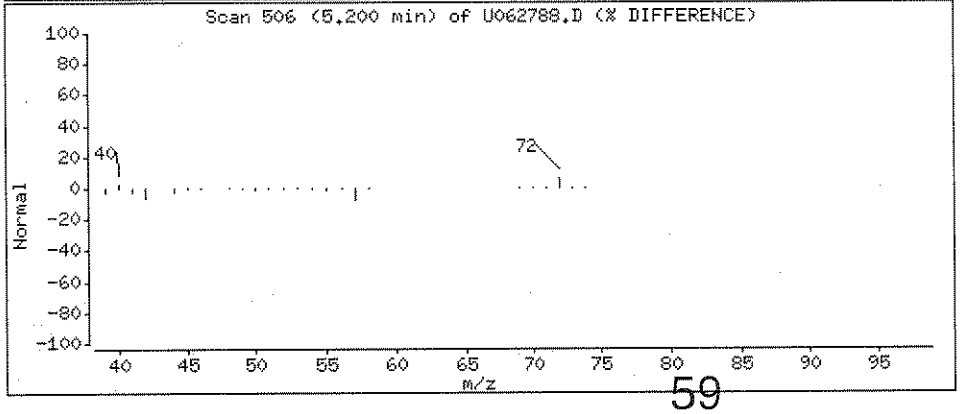












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

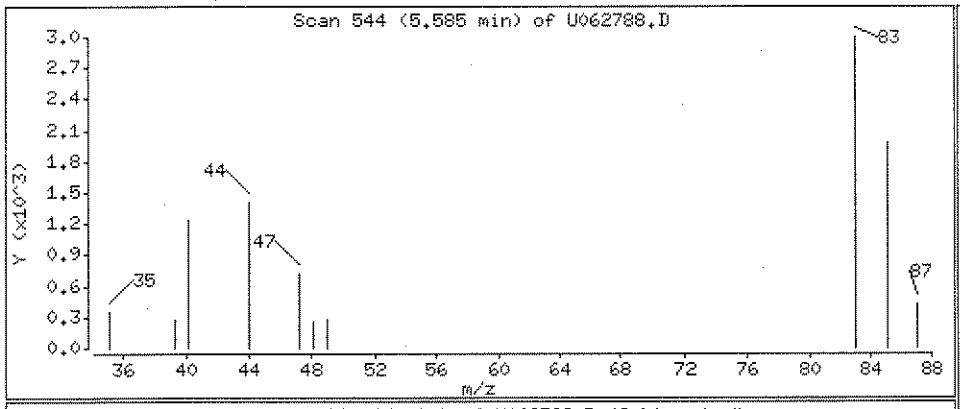
Operator: X

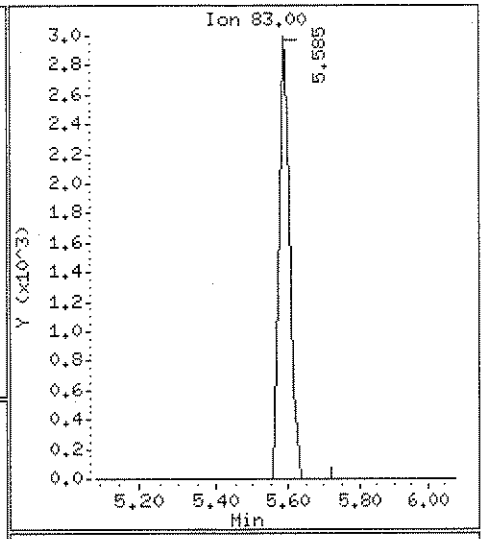
Column phase: DB-624

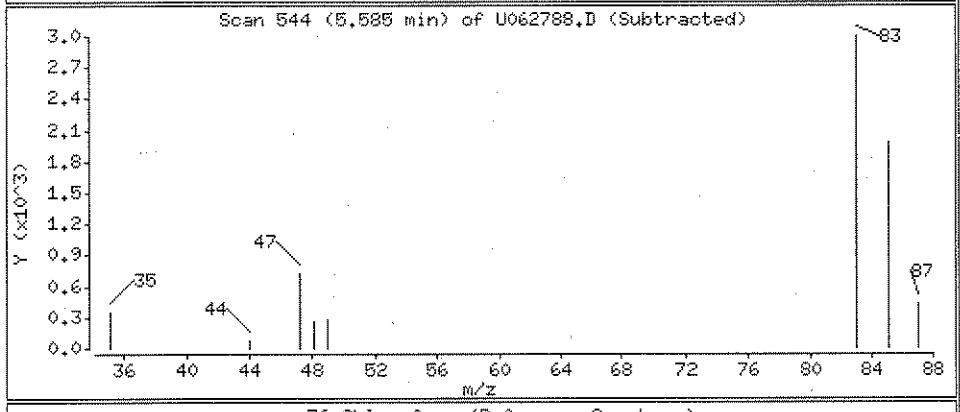
Column diameter: 0.32

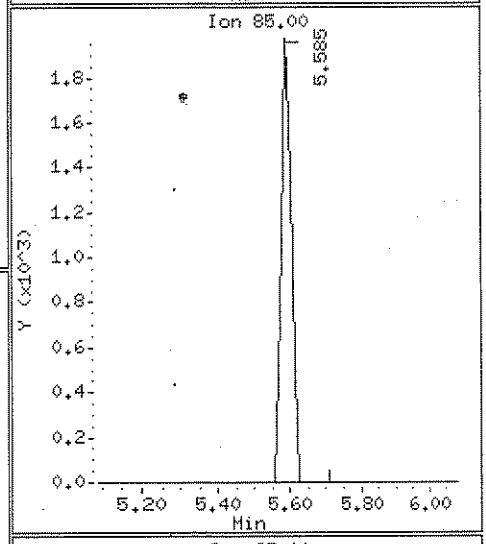
36 Chloroform

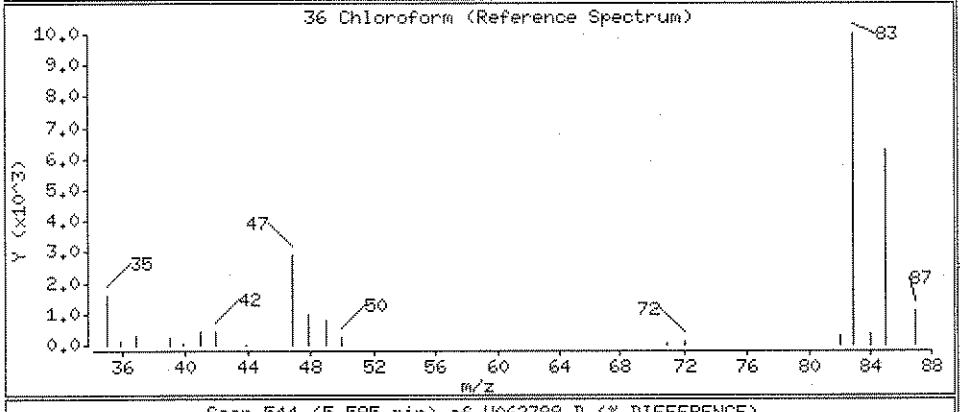
Concentration: 0.22 ug/L

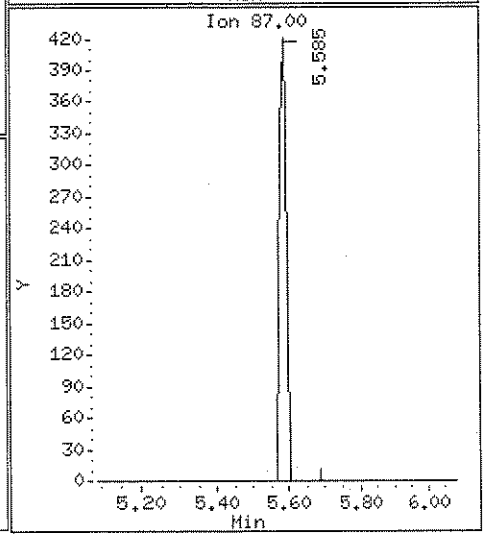


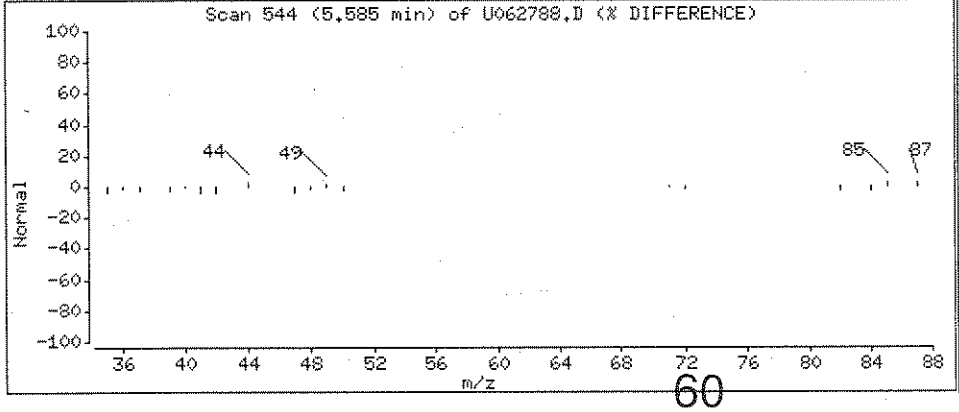












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

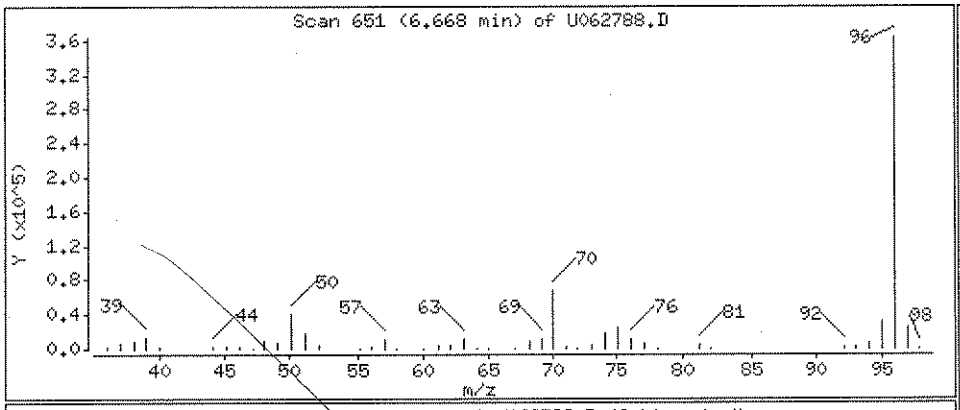
Operator: X

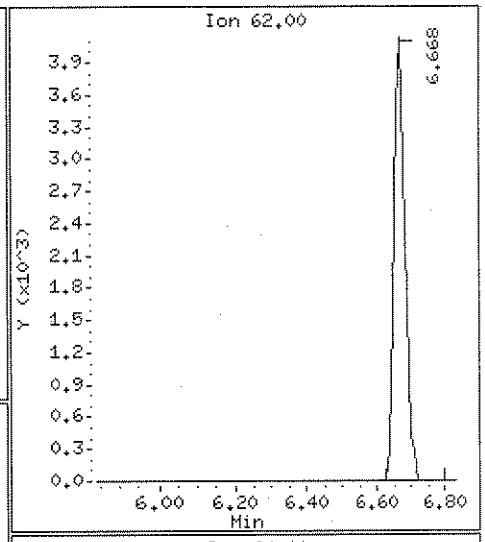
Column phase: DB-624

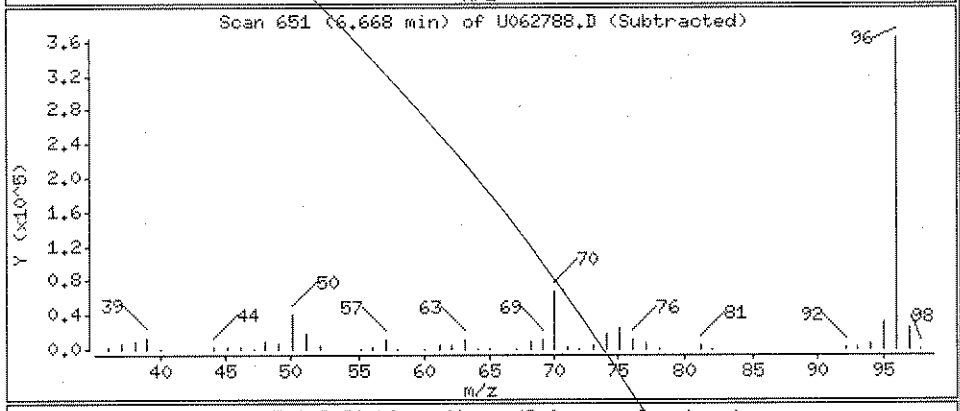
Column diameter: 0.32

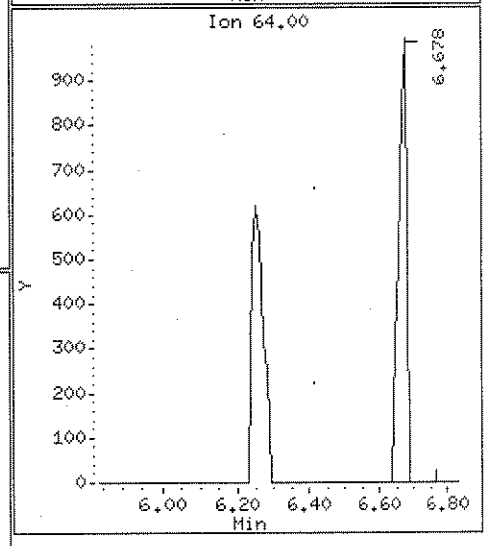
43 1,2-Dichloroethane

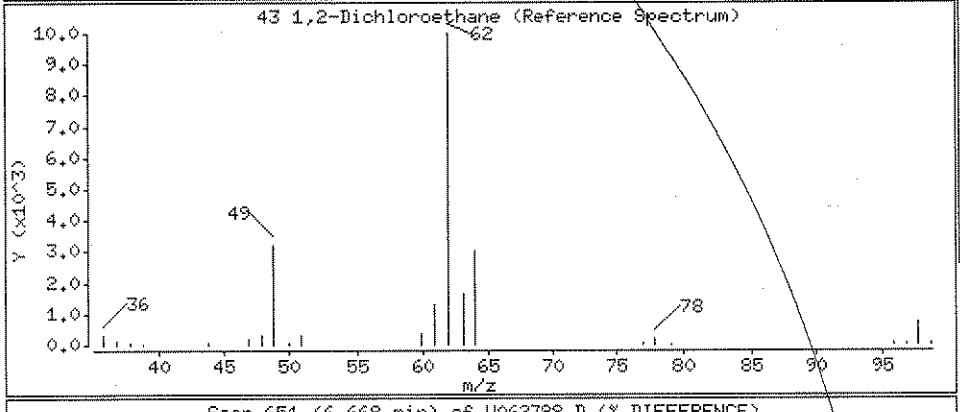
Concentration: 0.38 ug/L

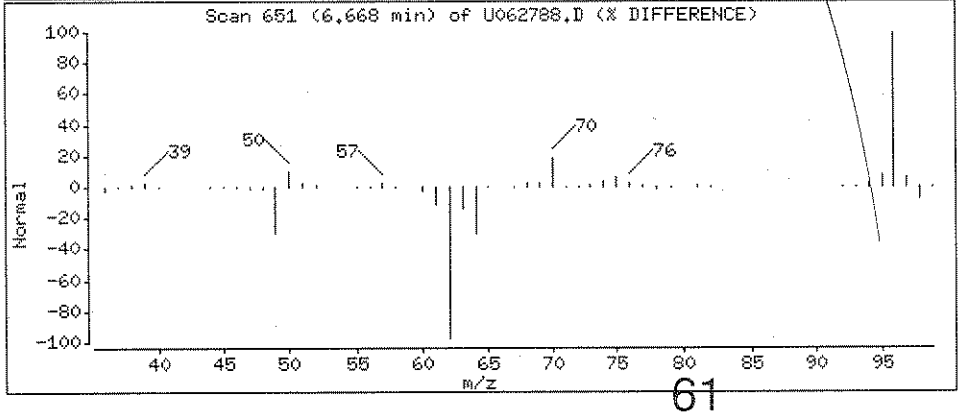












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

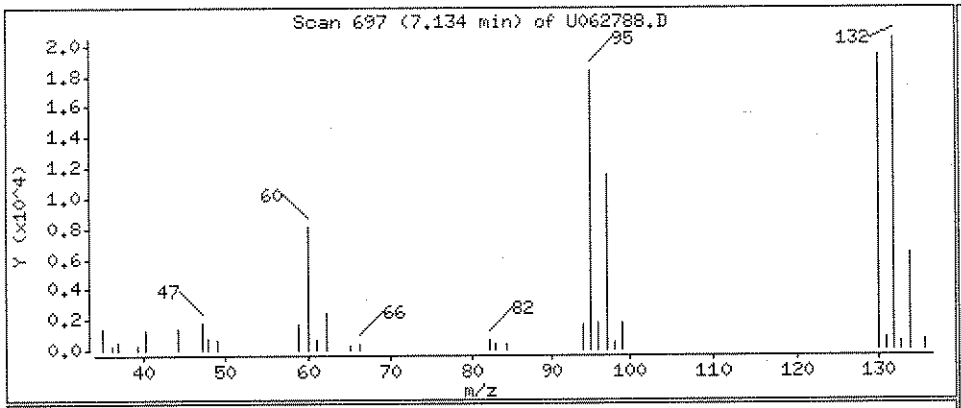
Operator: X

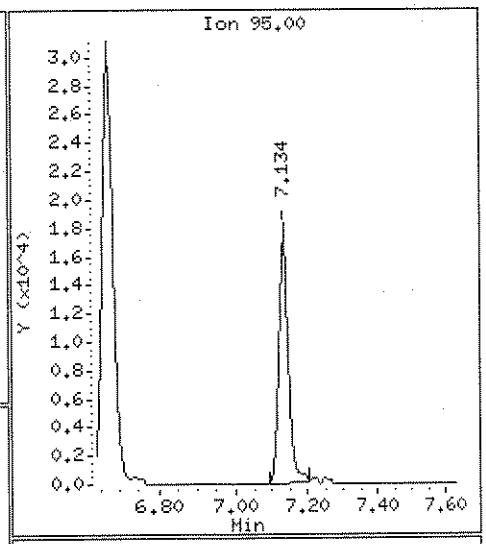
Column phase: DB-624

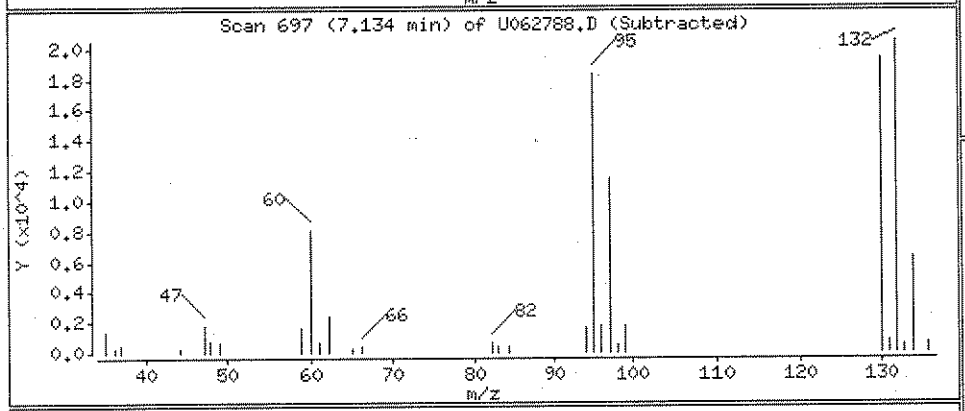
Column diameter: 0.32

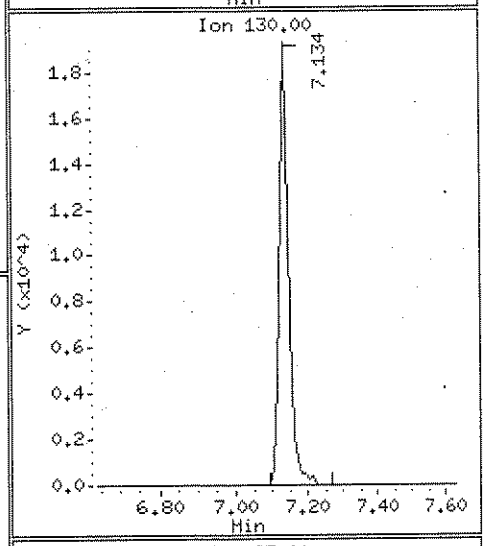
45 Trichloroethene

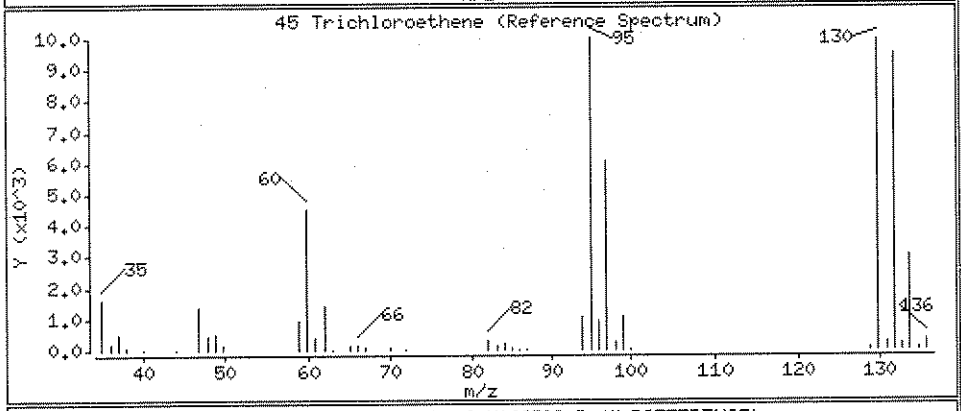
Concentration: 1.9 ug/L

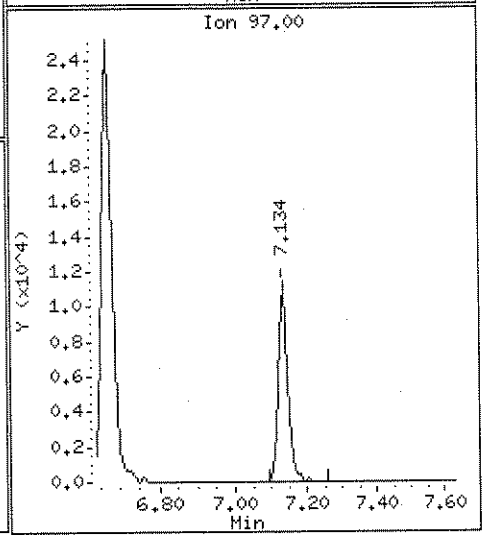


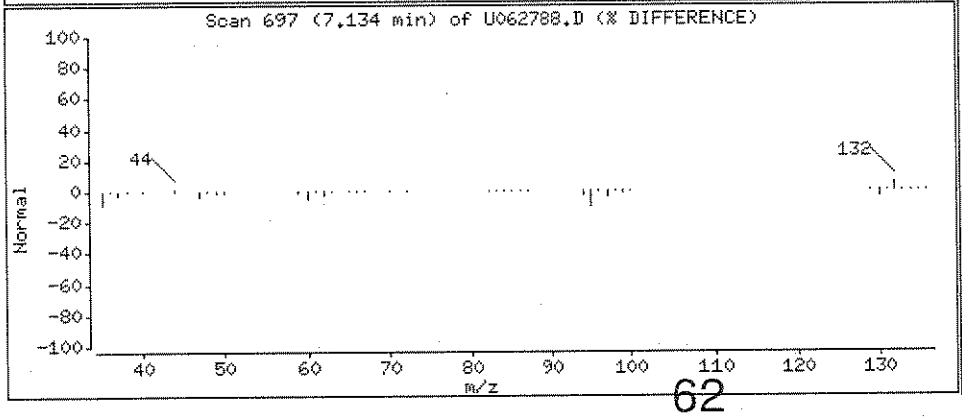












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

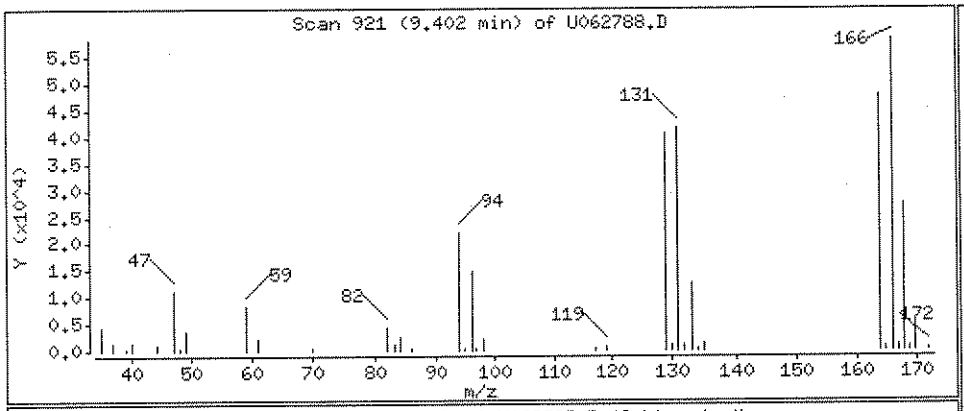
Operator: X

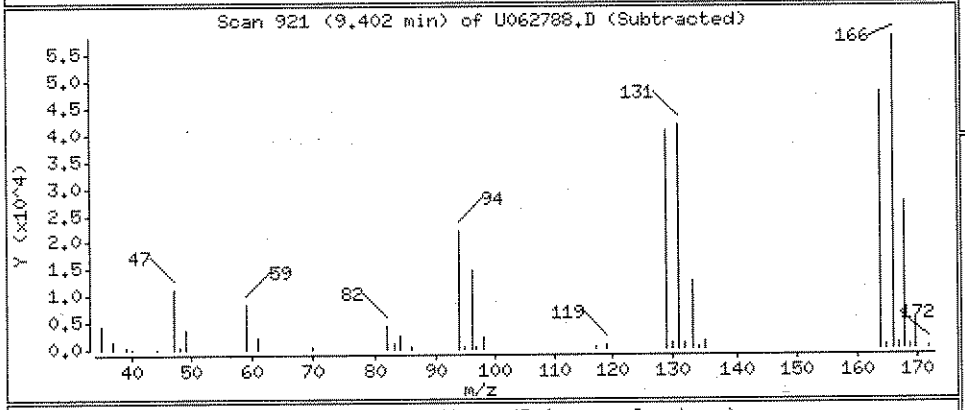
Column phase: DB-624

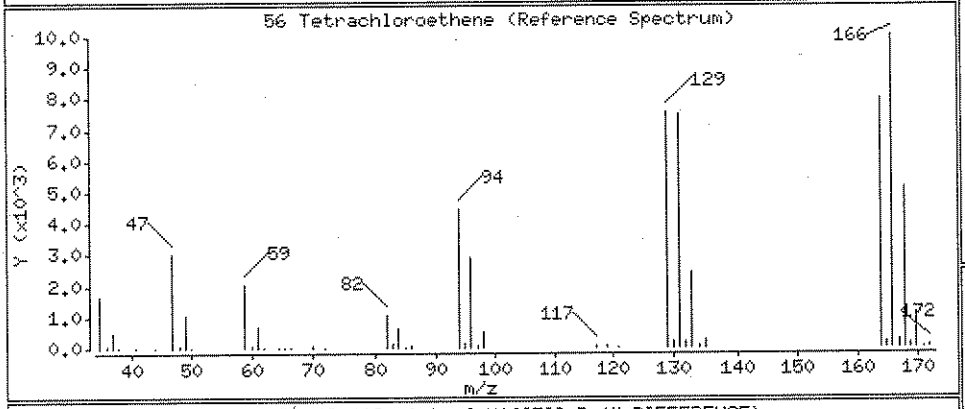
Column diameter: 0.32

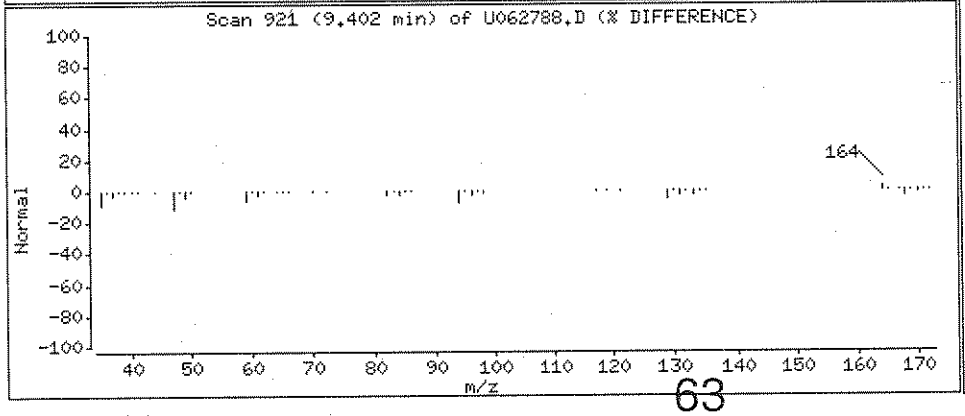
56 Tetrachloroethene

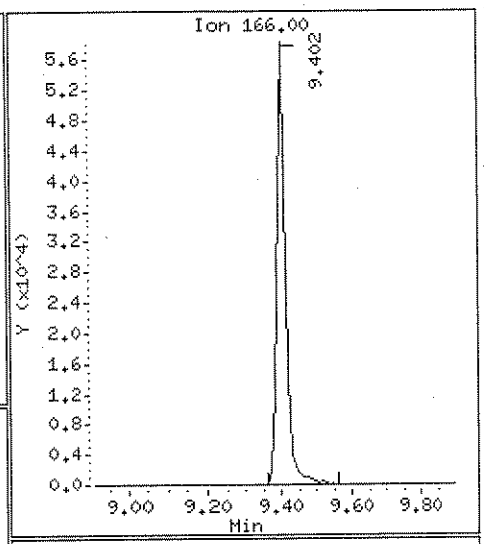
Concentration: 5.9 ug/L

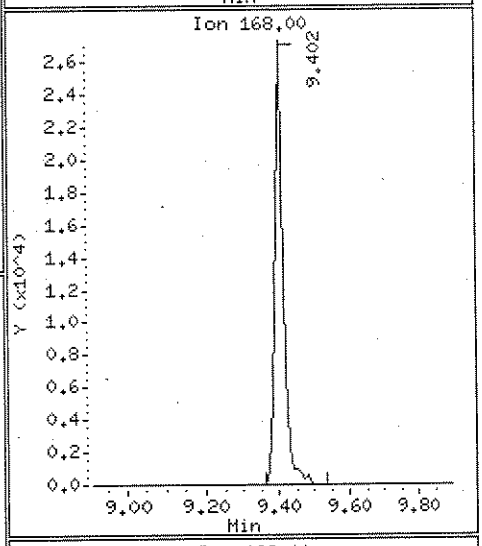


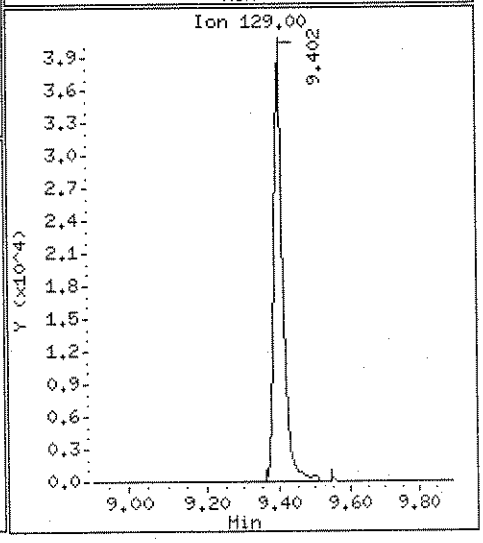












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

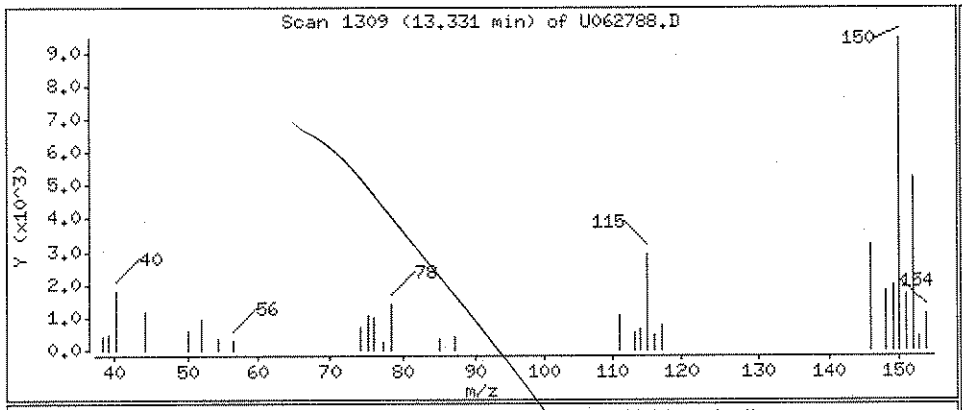
Operator: X

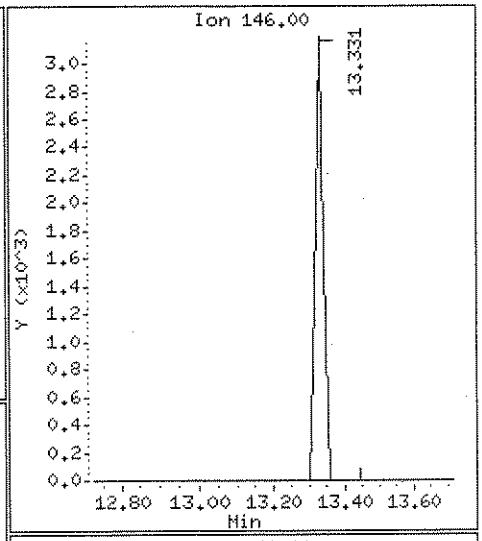
Column phase: DB-624

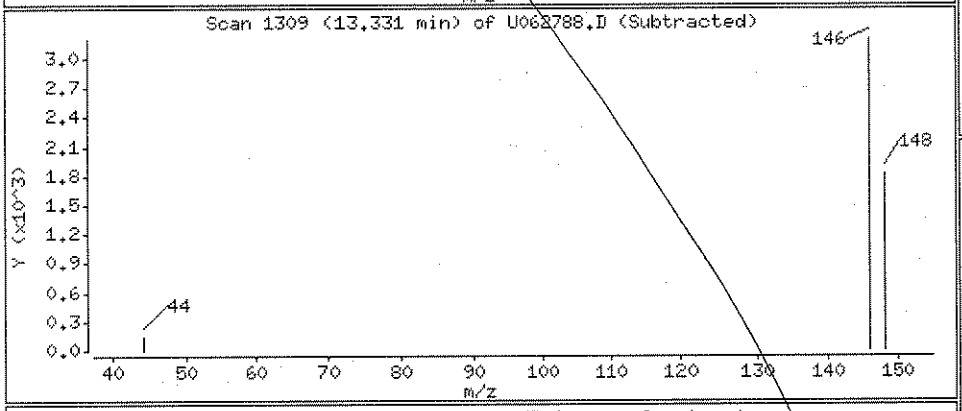
Column diameter: 0.32

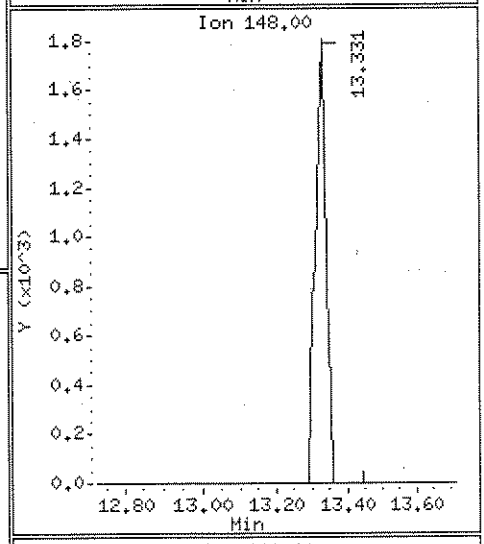
83 1,3-Dichlorobenzene

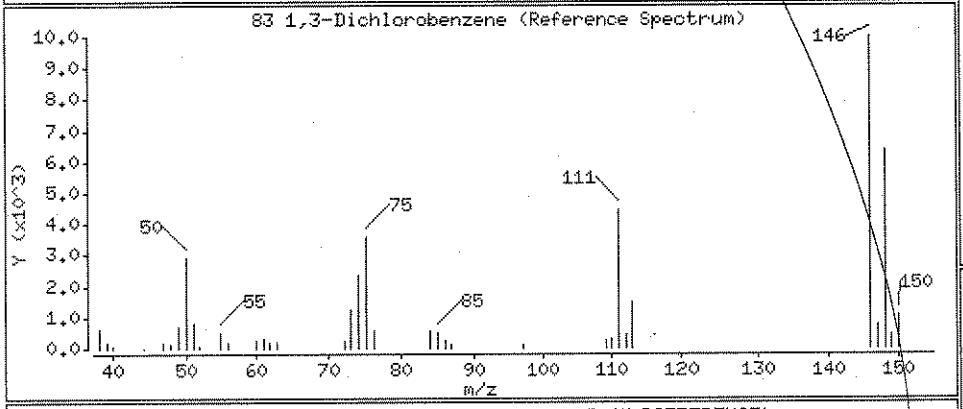
Concentration: 0.14 ug/L

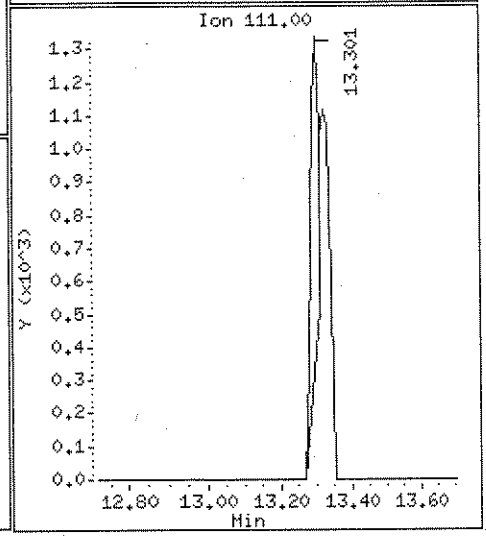


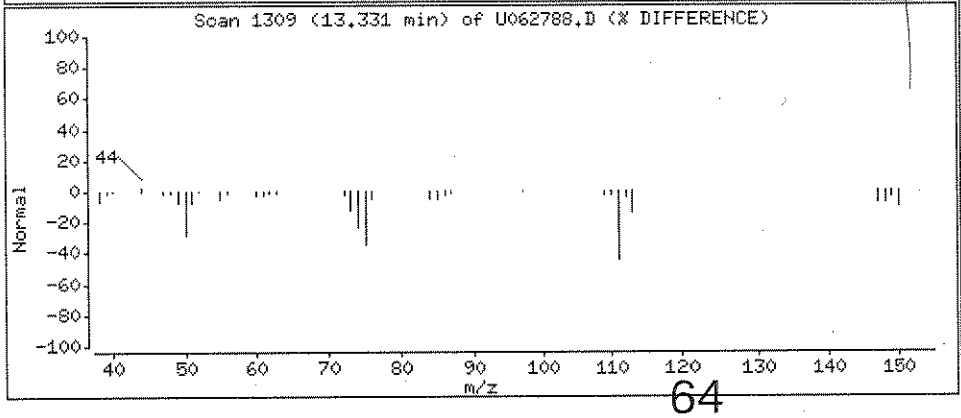












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062788.D

Date : 12-APR-2006 19:52

Client ID: B131-MW2D

Instrument: MSU.i

Sample Info: L0600578-005

Purge Volume: 10.0

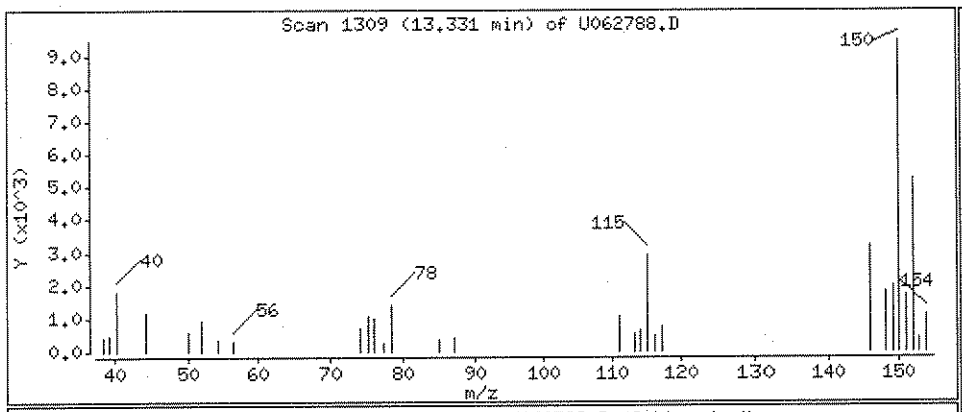
Operator: X

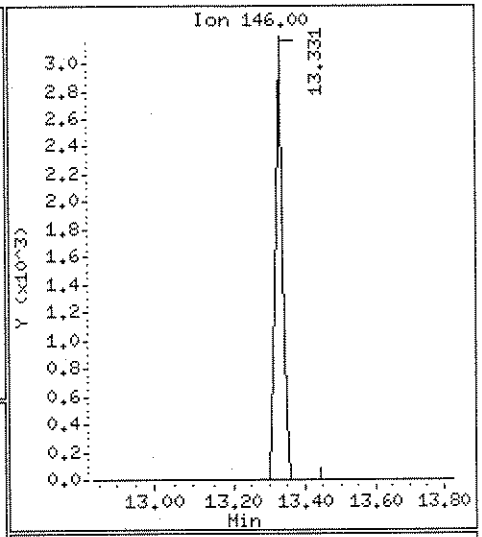
Column phase: DB-624

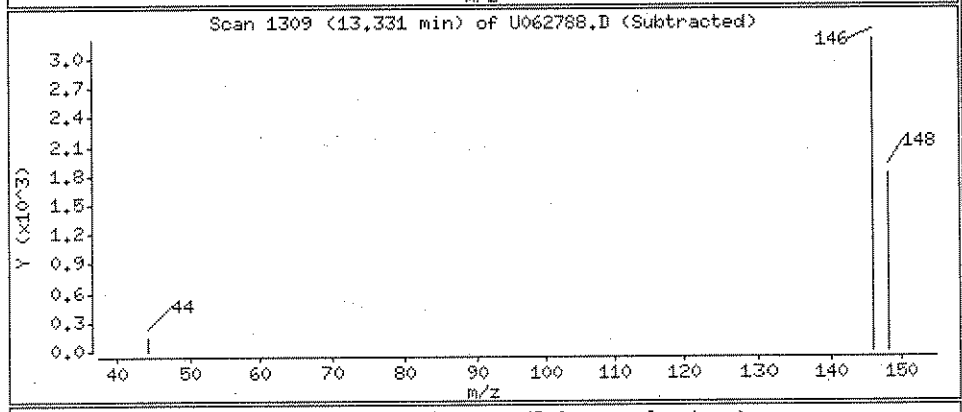
Column diameter: 0.32

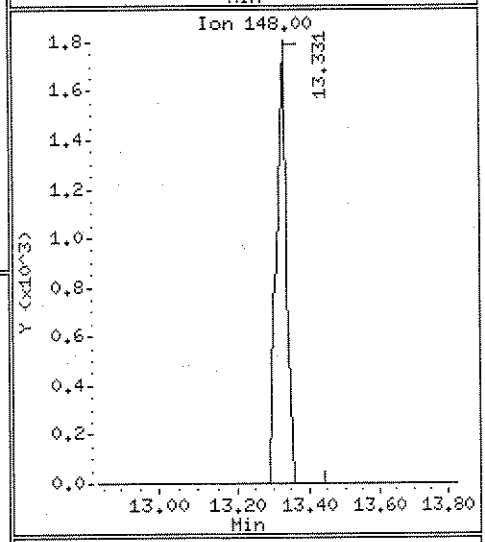
85 1,4-Dichlorobenzene

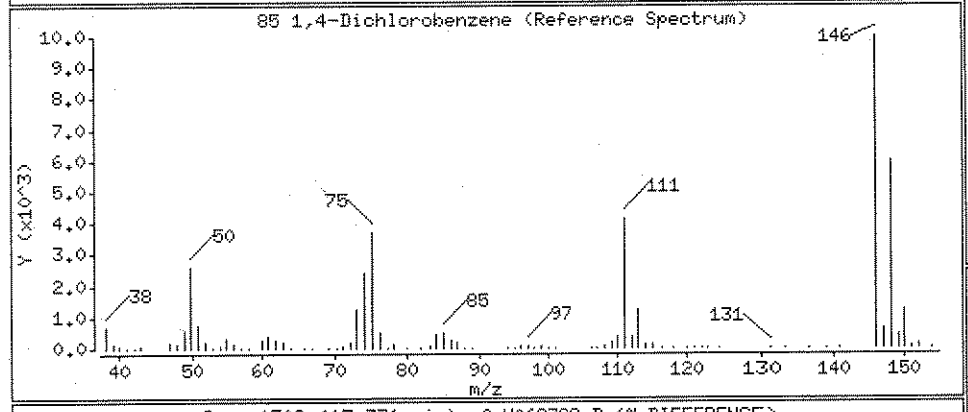
Concentration: 0.14 ug/L

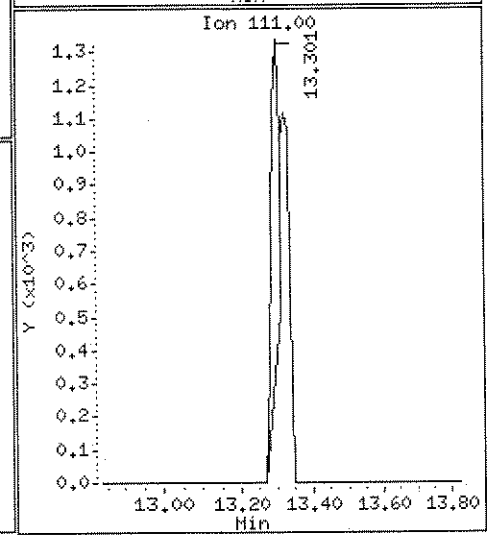


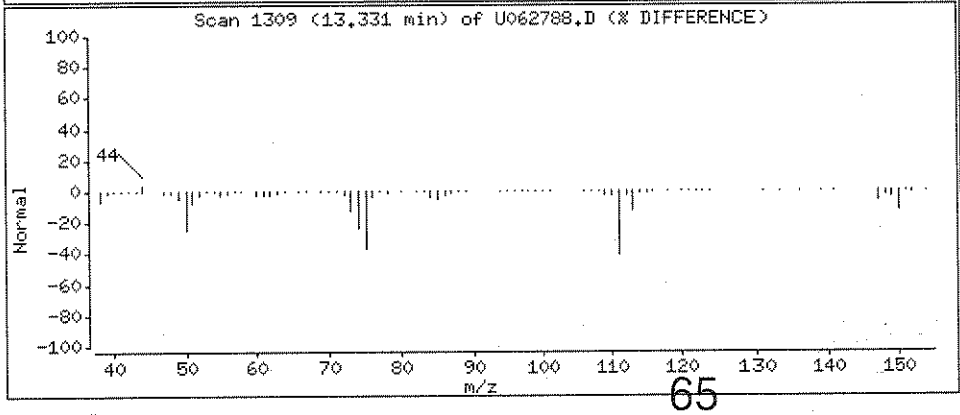












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Volatile Organic Compounds

Sample Name: QCEB-033106
Lab Code: L0600578-006

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloromethane	ND	U	0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
Vinyl chloride	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromomethane	ND	U	0.23	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloroethane	ND	U	0.19	1.0	1	04/12/2006	04/12/2006	U0412W01	
Trichlorofluoromethane	ND	U	0.22	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.16	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethene	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Acetone	**4.0**	J	0.74	10	1	04/12/2006	04/12/2006	U0412W01	
Carbon disulfide	ND	U	0.17	2.0	1	04/12/2006	04/12/2006	U0412W01	
Methylene chloride	ND	U	0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
trans-1,2-Dichloroethene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tert-butylmethylether	ND	U	0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethane	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Vinyl acetate	ND	U	0.18	10	1	04/12/2006	04/12/2006	U0412W01	
2,2-Dichloropropane	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Butanone	**3.2**	J	0.44	10	1	04/12/2006	04/12/2006	U0412W01	
Bromochloromethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Chloroform	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1-Trichloroethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Carbon tetrachloride	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Benzene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloroethane	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Trichloroethene	ND	U	0.21	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloropropane	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Dibromomethane	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromodichloromethane	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
4-methyl-2-pentanone	ND	U	0.40	10	1	04/12/2006	04/12/2006	U0412W01	
Toluene	**0.23**	J	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
trans-1,3-Dichloropropene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tetrachloroethene	ND	U	0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichloropropane	ND	U	0.12	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Hexanone	ND	U	0.54	10	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Volatile Organic Compounds

Sample Name: QCEB-033106
Lab Code: L0600578-006

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.11	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromoethane	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chlorobenzene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1,2-Tetrachloroethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Ethylbenzene	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
m-,p-Xylene	ND	U	0.29	1.0	1	04/12/2006	04/12/2006	U0412W01	
o-Xylene	ND	U	0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Xylene (total)	ND	U	0.11	1.5	1	04/12/2006	04/12/2006	U0412W01	
Styrene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromoform	ND	U	0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
Isopropylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2,2-Tetrachloroethane	ND	U	0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromobenzene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichloropropane	ND	U	0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Propylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
2-Chlorotoluene	ND	U	0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3,5-Trimethylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
tert-Butylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
sec-Butylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichlorobenzene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
p-Isopropyltoluene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,4-Dichlorobenzene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Butylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromo-3-chloropropane	ND	U	0.53	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trichlorobenzene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Hexachlorobutadiene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Naphthalene	ND	U	0.090	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Volatile Organic Compounds

Sample Name: QCEB-033106
Lab Code: L0600578-006

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	103	88-119	04/12/2006	
Dibromofluoromethane - SS	105	87-123	04/12/2006	
Toluene-d8 - SS	101	82-115	04/12/2006	

Comments: _____

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062789.D

Date : 12-APR-2006 20:18

Client ID: QCEB-033106

Instrument: MSU.i

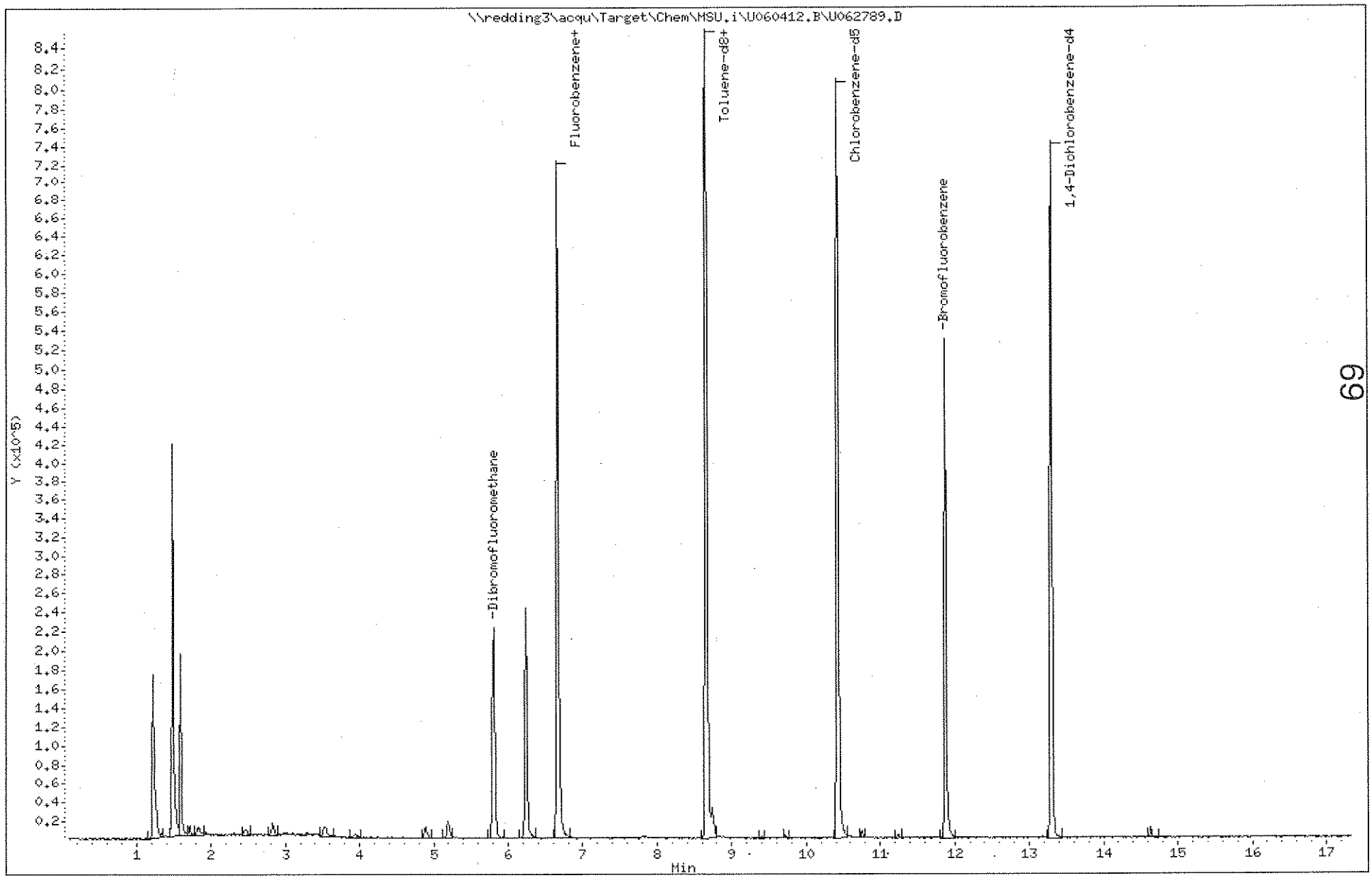
Sample Info: L0600578-006

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062789.D
Lab Smp Id: L0600578-006 Client Smp ID: QCEB-033106
Inj Date : 12-APR-2006 20:18
Operator : X Inst ID: MSU.i
Smp Info : L0600578-006
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\8260wCanoga.m
Meth Date : 14-Apr-2006 10:28 MSU.i Quant Type: ISTD
Cal Date : 28-MAR-2006 16:56 Cal File: U062457.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Canoga-LJ964.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	6.668	6.668	(1.000)	738502	10.0000	
* 2	Chlorobenzene-d5	117	10.425	10.425	(1.000)	517362	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	223288	10.0000	
$ 4	Dibromofluoromethane	113	5.807	5.807	(0.871)	165316	10.4908	10.5
$ 6	Toluene-d8	98	8.663	8.663	(0.831)	654627	10.1168	10.1
$ 7	Bromofluorobenzene	174	11.883	11.883	(0.893)	176286	10.3021	10.3
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	1.585	1.534	(0.238)	8782	0.42770	~~0.43(a)~~
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	Compound Not Detected.					
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	2.830	2.830	(0.424)	17110	3.99907	4.0(a)
20	Carbon disulfide	76	Compound Not Detected.					
21	Methylene chloride	84	Compound Not Detected.					
25	trans-1,2-Dichloroethene	96	Compound Not Detected.					
26	tert-Butylmethylether	73	Compound Not Detected.					
27	1,1-Dichloroethane	63	Compound Not Detected.					
29	Vinyl acetate	43	Compound Not Detected.					
31	2,2-Dichloropropane	77	Compound Not Detected.					

4/4-70-06 4/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	32 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	34 2-Butanone	43	5.200	5.190	(0.780)	28862	3.24182	3.2(a)
	35 Bromochloromethane	128	Compound Not Detected.					
	36 Chloroform	83	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	39 1,1-Dichloropropene	75	Compound Not Detected.					
	40 Carbon tetrachloride	119	Compound Not Detected.					
	42 Benzene	78	Compound Not Detected.					
	43 1,2-Dichloroethane	62	6.668	6.334	(1.000)	8470	0.37139	0.37(a)
	45 Trichloroethene	95	Compound Not Detected.					
	46 1,2-Dichloropropane	63	Compound Not Detected.					
	48 Dibromomethane	93	Compound Not Detected.					
	49 Bromodichloromethane	83	Compound Not Detected.					
	51 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	52 4-Methyl-2-pentanone	43	Compound Not Detected.					
	53 Toluene	92	8.744	8.744	(0.839)	11299	0.23069	0.23(a)
	54 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	55 1,1,2-Trichloroethane	83	Compound Not Detected.					
	56 Tetrachloroethene	166	Compound Not Detected.					
	57 1,3-Dichloropropane	76	Compound Not Detected.					
	58 2-Hexanone	43	Compound Not Detected.					
	59 Dibromochloromethane	129	Compound Not Detected.					
	60 1,2-Dibromoethane	107	Compound Not Detected.					
	62 Chlorobenzene	112	Compound Not Detected.					
	63 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	64 Ethylbenzene	91	Compound Not Detected.					
	65 m-,p-Xylene	106	Compound Not Detected.					
	66 o-Xylene	106	Compound Not Detected.					
M	67 Xylene (total)	106	Compound Not Detected.					
	68 Styrene	104	Compound Not Detected.					
	69 Bromoform	173	Compound Not Detected.					
	70 Isopropylbenzene	105	Compound Not Detected.					
	71 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	72 Bromobenzene	156	Compound Not Detected.					
	73 1,2,3-Trichloropropane	110	Compound Not Detected.					
	75 n-Propylbenzene	120	Compound Not Detected.					
	76 2-Chlorotoluene	126	Compound Not Detected.					
	78 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	79 4-Chlorotoluene	126	Compound Not Detected.					
	80 tert-Butylbenzene	119	Compound Not Detected.					
	81 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	82 sec-Butylbenzene	105	Compound Not Detected.					
	83 1,3-Dichlorobenzene	146	Compound Not Detected.					
	84 p-Isopropyltoluene	119	Compound Not Detected.					
	85 1,4-Dichlorobenzene	146	Compound Not Detected.					
	87 n-Butylbenzene	91	Compound Not Detected.					
	88 1,2-Dichlorobenzene	146	Compound Not Detected.					
	89 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
	90 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	91 Hexachlorobutadiene	225	Compound Not Detected.					
	92 Naphthalene	128	Compound Not Detected.					
	93 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062789.D

Date : 12-APR-2006 20:18

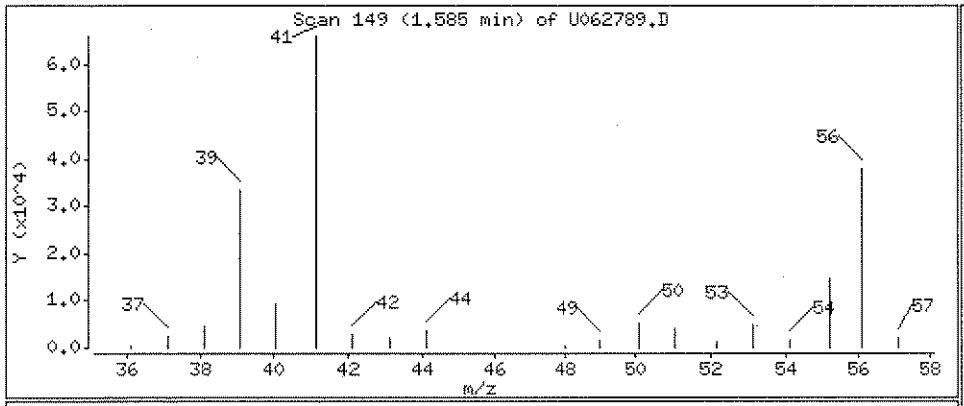
Client ID: QCEB-033106 Instrument: MSU.i

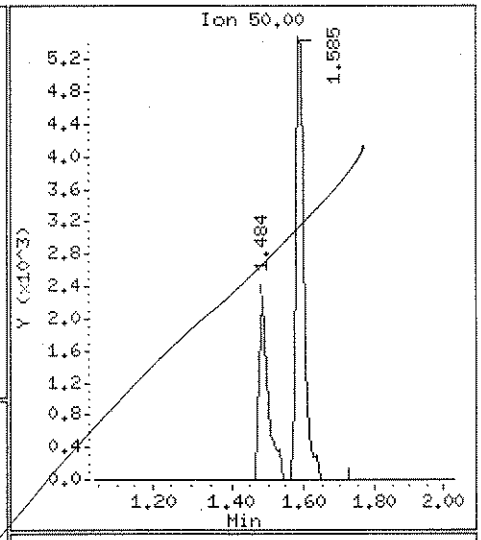
Sample Info: L0600578-006

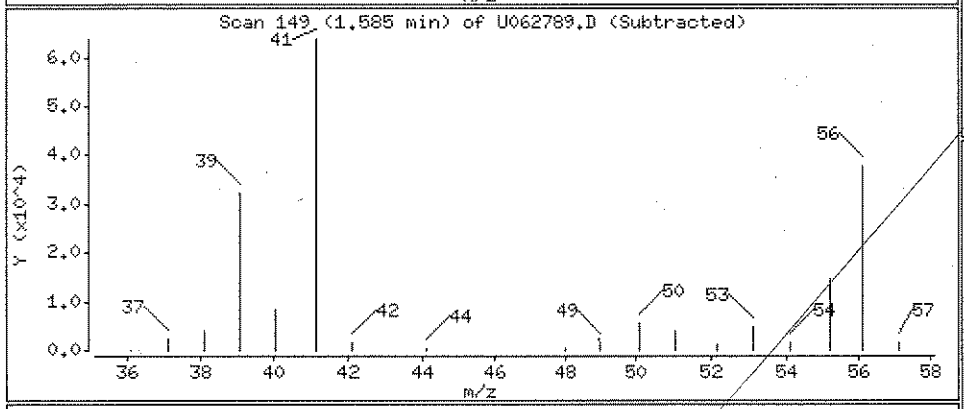
Purge Volume: 10.0 Operator: X

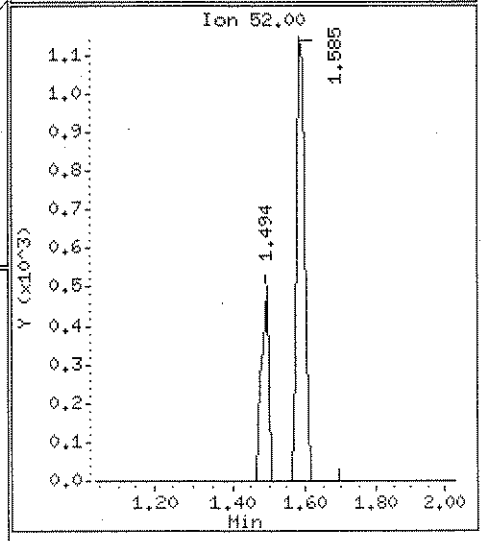
Column phase: DB-624 Column diameter: 0.32

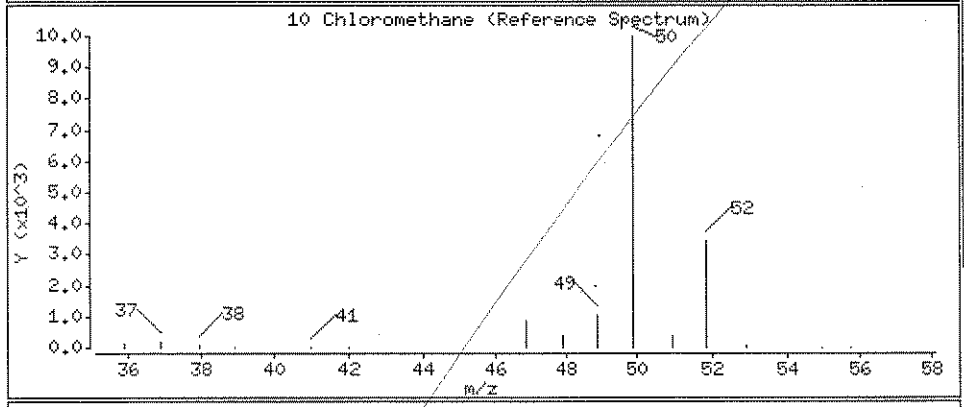
10 Chloromethane Concentration: 0.43 ug/L

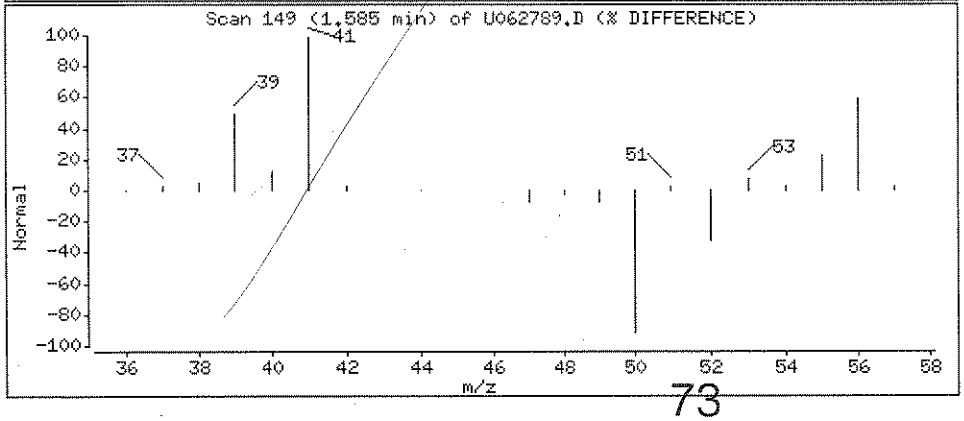












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062789.D

Date : 12-APR-2006 20:18

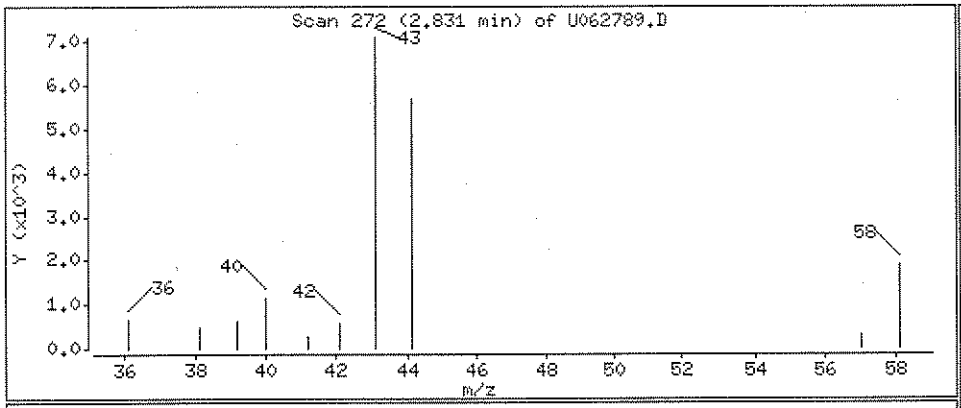
Client ID: QCEB-033106 Instrument: MSU.i

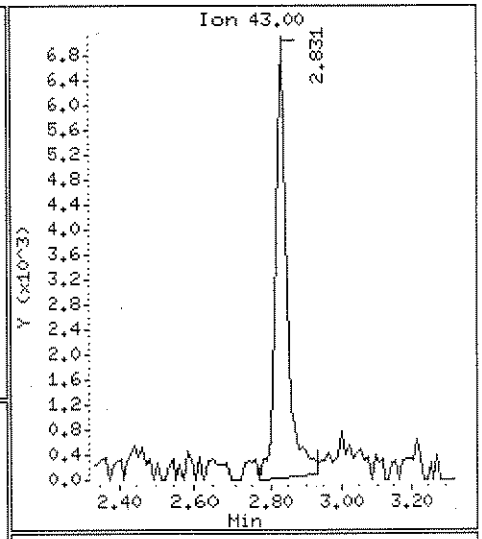
Sample Info: L0600578-006

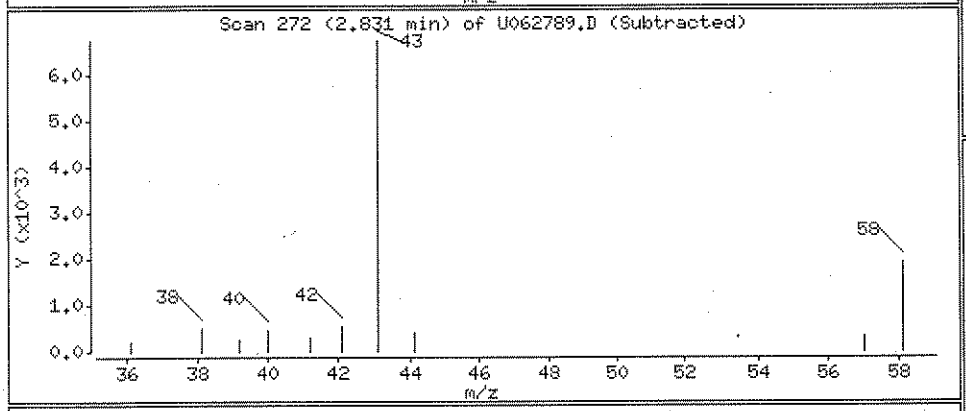
Purge Volume: 10.0 Operator: X

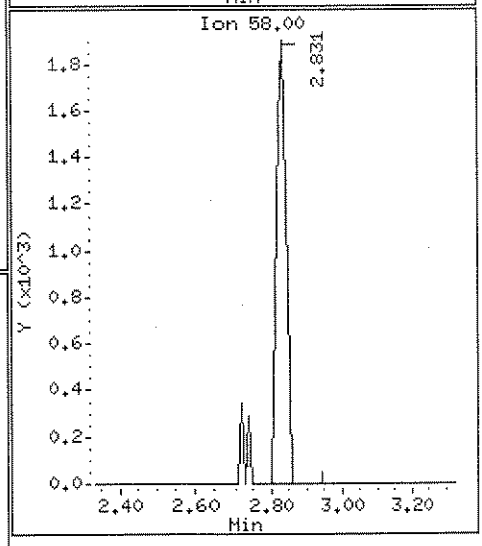
Column phase: DB-624 Column diameter: 0.32

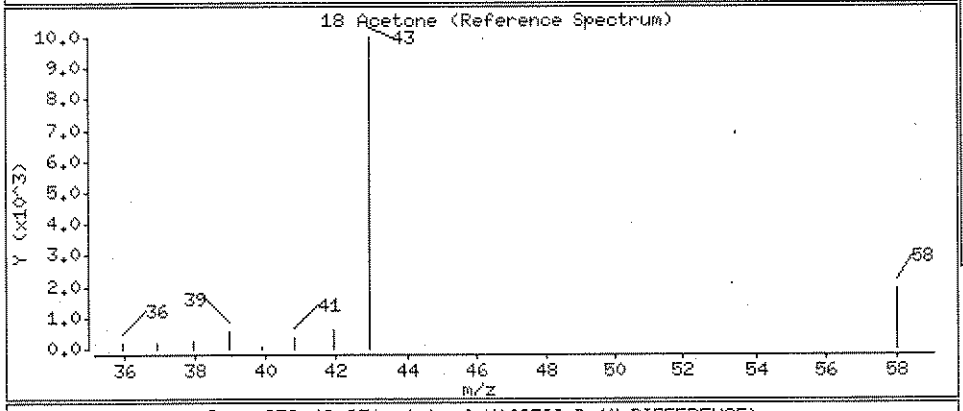
18 Acetone Concentration: 4.0 ug/L

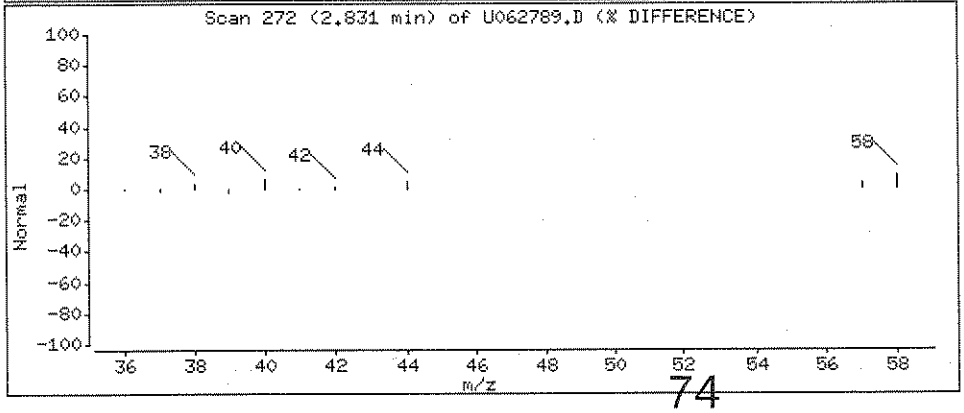












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062789.D Page 9

Date : 12-APR-2006 20:18

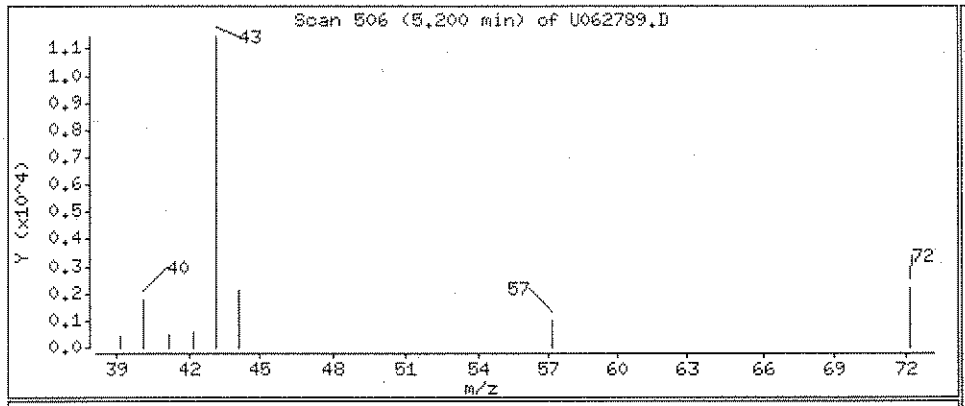
Client ID: QCEB-033106 Instrument: MSU.i

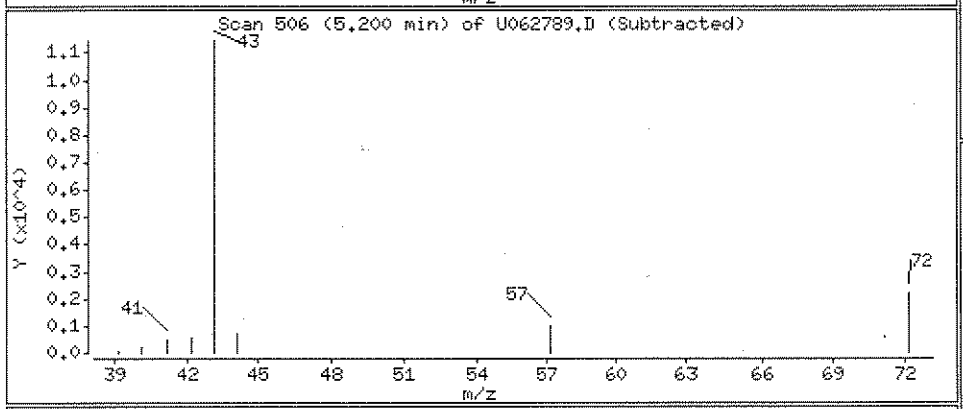
Sample Info: L0600578-006

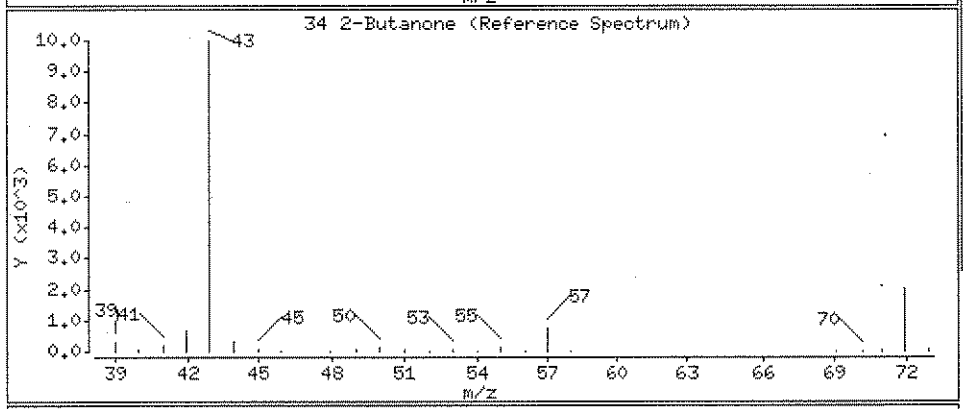
Purge Volume: 10.0 Operator: X

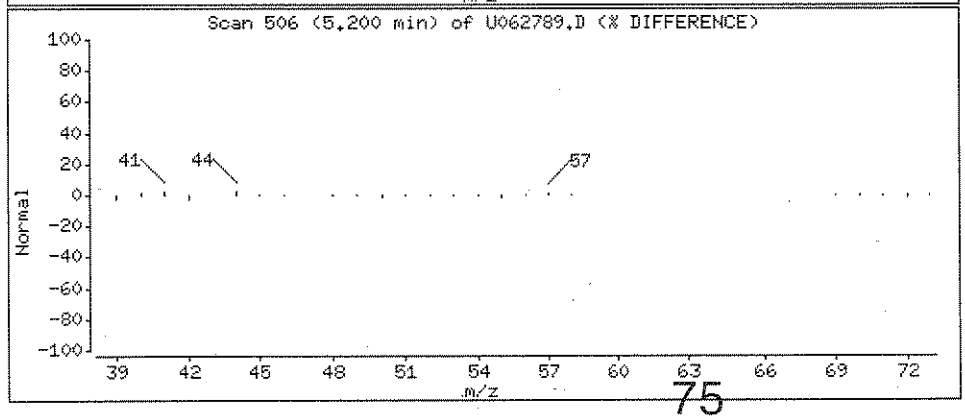
Column phase: DB-624 Column diameter: 0.32

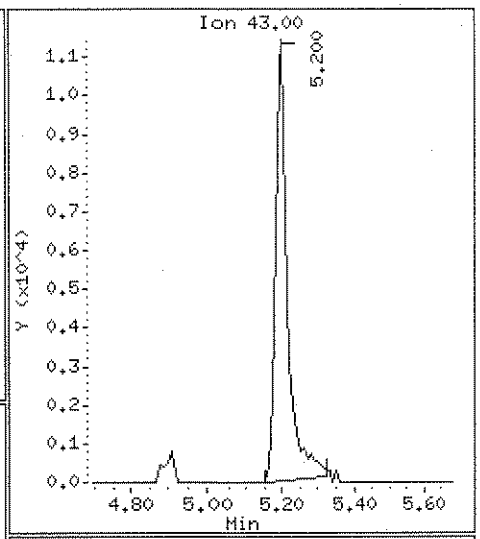
34 2-Butanone Concentration: 3.2 ug/L

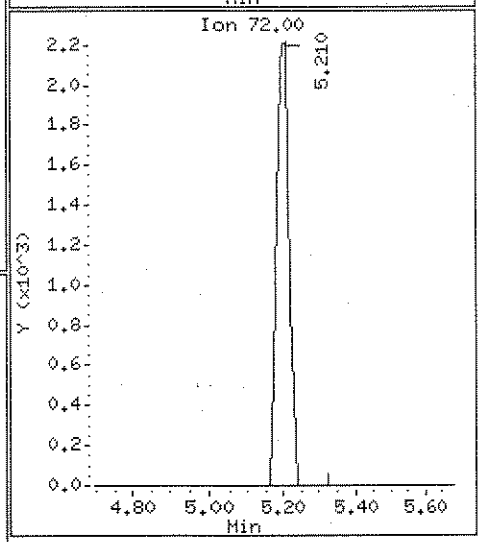












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Date : 12-APR-2006 20:18

Client ID: QCEB-033106

Instrument: MSU.i

Sample Info: L0600578-006

Purge Volume: 10.0

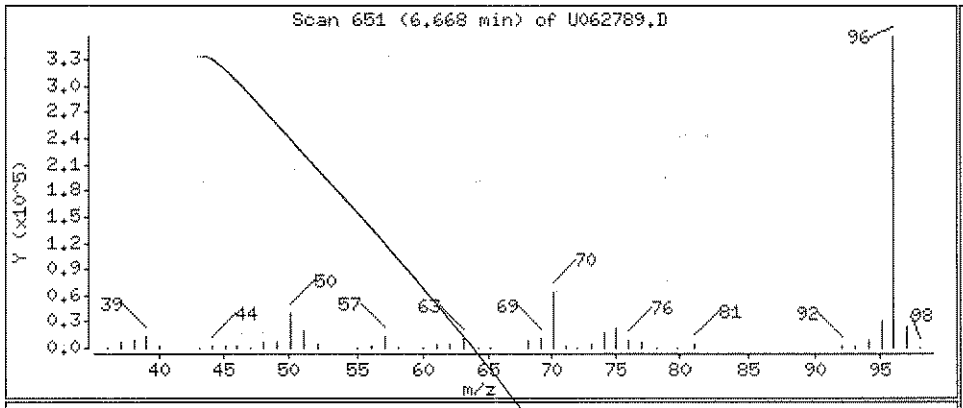
Operator: X

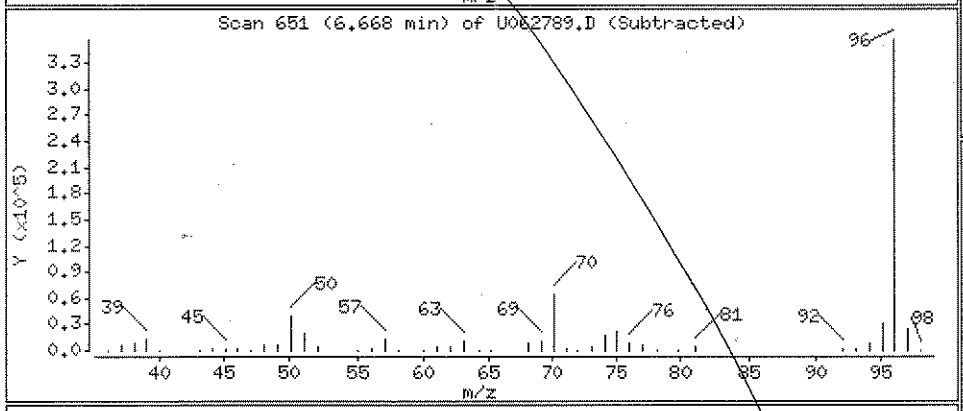
Column phase: DB-624

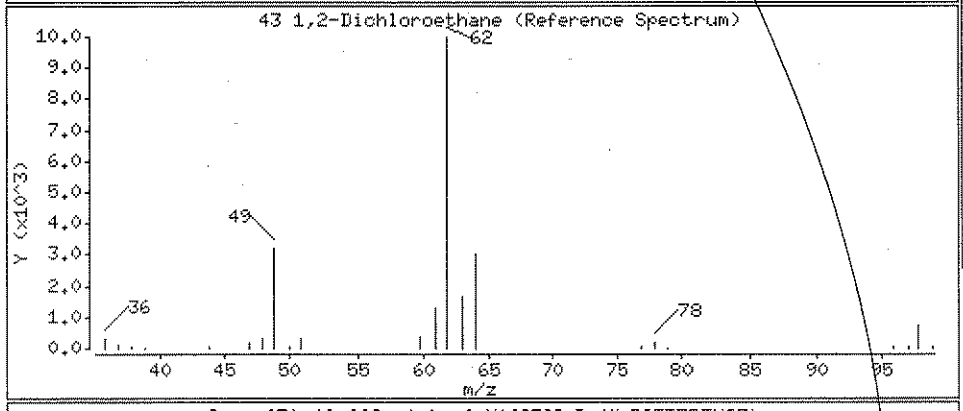
Column diameter: 0.32

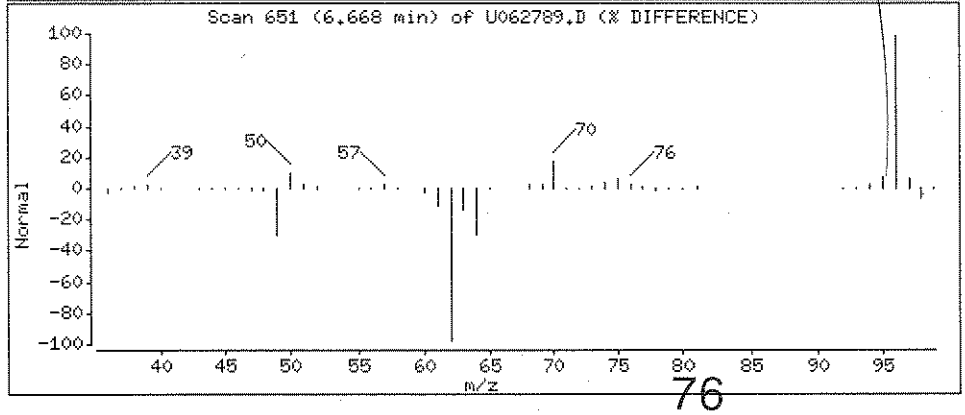
43 1,2-Dichloroethane

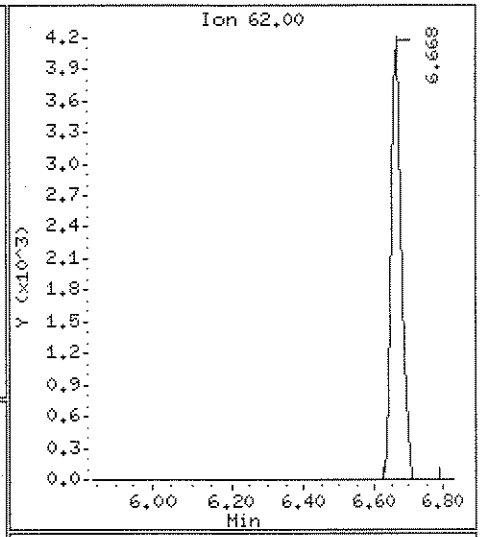
Concentration: 0.37 ug/L

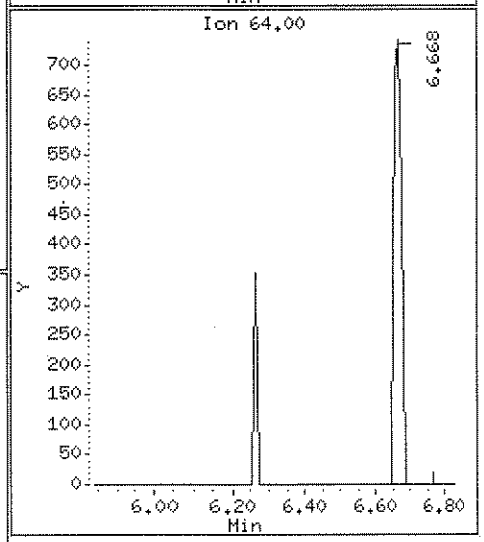












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062789.D

Date : 12-APR-2006 20:18

Client ID: QCEB-033106

Instrument: MSU.i

Sample Info: L0600578-006

Purge Volume: 10.0

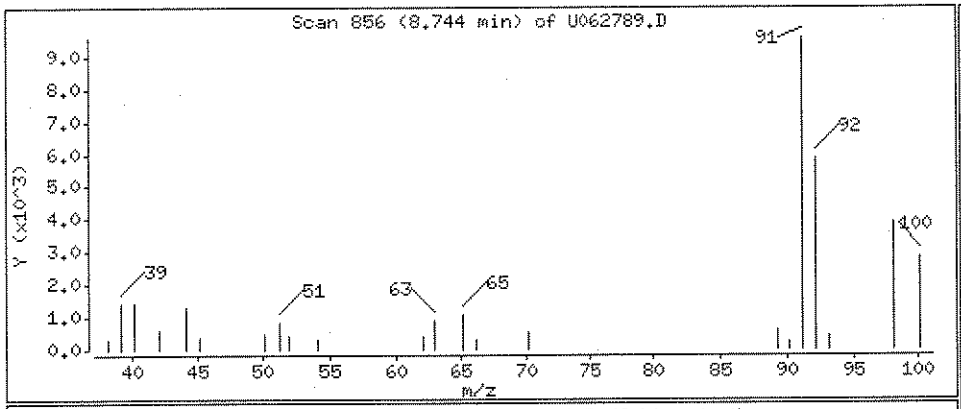
Operator: X

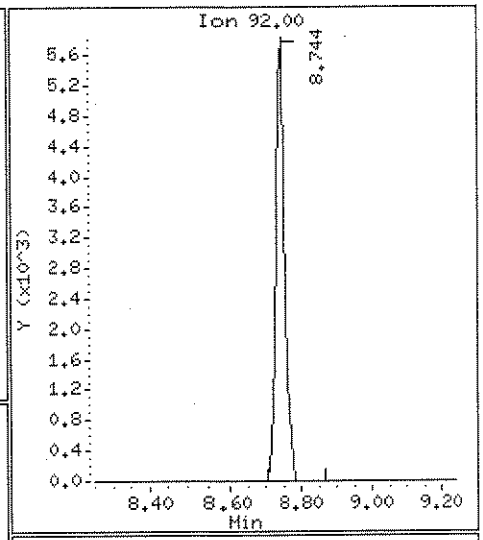
Column phase: DB-624

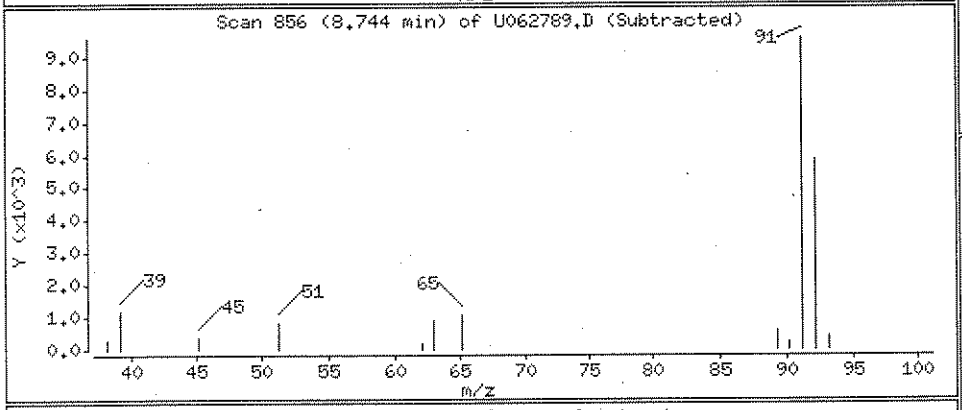
Column diameter: 0.32

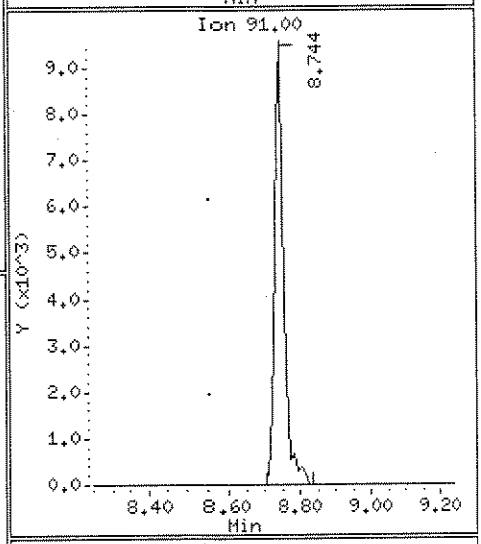
53 Toluene

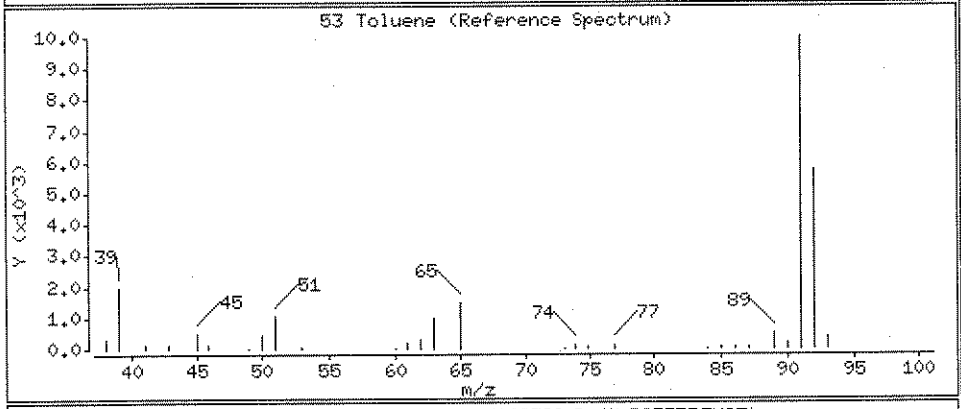
Concentration: 0.23 ug/L

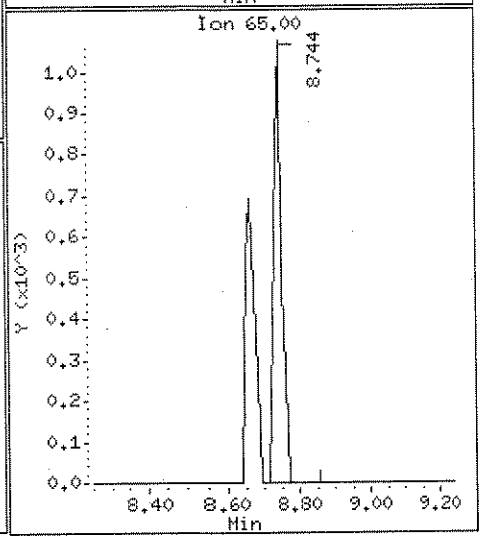


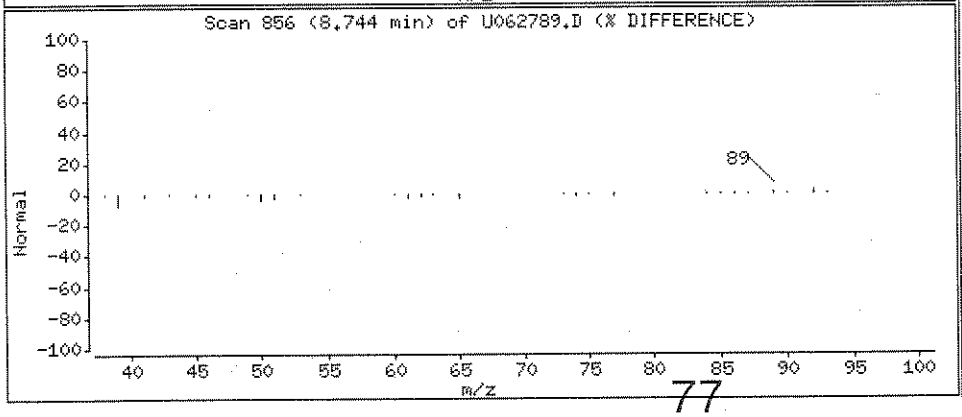












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Volatile Organic Compounds

Sample Name: B131-MW3D
Lab Code: L0600578-007

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloromethane	ND	U	0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
Vinyl chloride	**2.2**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromomethane	ND	U	0.23	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chloroethane	ND	U	0.19	1.0	1	04/12/2006	04/12/2006	U0412W01	
Trichlorofluoromethane	ND	U	0.22	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.16	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethene	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Acetone	**3.1**	J	0.74	10	1	04/12/2006	04/12/2006	U0412W01	
Carbon disulfide	ND	U	0.17	2.0	1	04/12/2006	04/12/2006	U0412W01	
Methylene chloride	ND	U	0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
trans-1,2-Dichloroethene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tert-butylmethylether	ND	U	0.13	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloroethane	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Vinyl acetate	ND	U	0.18	10	1	04/12/2006	04/12/2006	U0412W01	
2,2-Dichloropropane	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
cis-1,2-Dichloroethene	**1.3**		0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Butanone	**0.66**	J	0.44	10	1	04/12/2006	04/12/2006	U0412W01	
Bromochloromethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Chloroform	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1-Trichloroethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Carbon tetrachloride	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Benzene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloroethane	ND	U	0.18	0.50	1	04/12/2006	04/12/2006	U0412W01	
Trichloroethene	**1.0**		0.21	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichloropropane	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
Dibromomethane	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromodichloromethane	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
4-methyl-2-pentanone	ND	U	0.40	10	1	04/12/2006	04/12/2006	U0412W01	
Toluene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
trans-1,3-Dichloropropene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Tetrachloroethene	**5.5**		0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichloropropane	ND	U	0.12	0.50	1	04/12/2006	04/12/2006	U0412W01	
2-Hexanone	ND	U	0.54	10	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Volatile Organic Compounds

Sample Name: B131-MW3D
Lab Code: L0600578-007

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.11	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromoethane	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	
Chlorobenzene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,1,1,2-Tetrachloroethane	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
Ethylbenzene	ND	U	0.16	0.50	1	04/12/2006	04/12/2006	U0412W01	
m-,p-Xylene	ND	U	0.29	1.0	1	04/12/2006	04/12/2006	U0412W01	
o-Xylene	ND	U	0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Xylene (total)	ND	U	0.11	1.5	1	04/12/2006	04/12/2006	U0412W01	
Styrene	ND	U	0.15	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromoform	ND	U	0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
Isopropylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,1,2,2-Tetrachloroethane	ND	U	0.11	0.50	1	04/12/2006	04/12/2006	U0412W01	
Bromobenzene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichloropropane	ND	U	0.17	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Propylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
2-Chlorotoluene	ND	U	0.12	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3,5-Trimethylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	04/12/2006	04/12/2006	U0412W01	
tert-Butylbenzene	ND	U	0.14	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
sec-Butylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,3-Dichlorobenzene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
p-Isopropyltoluene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,4-Dichlorobenzene	ND	U	0.13	0.50	1	04/12/2006	04/12/2006	U0412W01	
n-Butylbenzene	ND	U	0.13	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	04/12/2006	04/12/2006	U0412W01	
1,2-Dibromo-3-chloropropane	ND	U	0.53	2.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,4-Trichlorobenzene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Hexachlorobutadiene	ND	U	0.17	1.0	1	04/12/2006	04/12/2006	U0412W01	
Naphthalene	ND	U	0.090	1.0	1	04/12/2006	04/12/2006	U0412W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	04/12/2006	04/12/2006	U0412W01	

Comments: _____

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Collected: 03/31/2006
Date Received: 04/03/2006

Volatile Organic Compounds

Sample Name: B131-MW3D
Lab Code: L0600578-007

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	99	88-119	04/12/2006	
Dibromofluoromethane - SS	100	87-123	04/12/2006	
Toluene-d8 - SS	96	82-115	04/12/2006	

Comments: _____

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062790.D

Date : 12-APR-2006 20:43

Client ID: B131-NW3D

Instrument: MSU.i

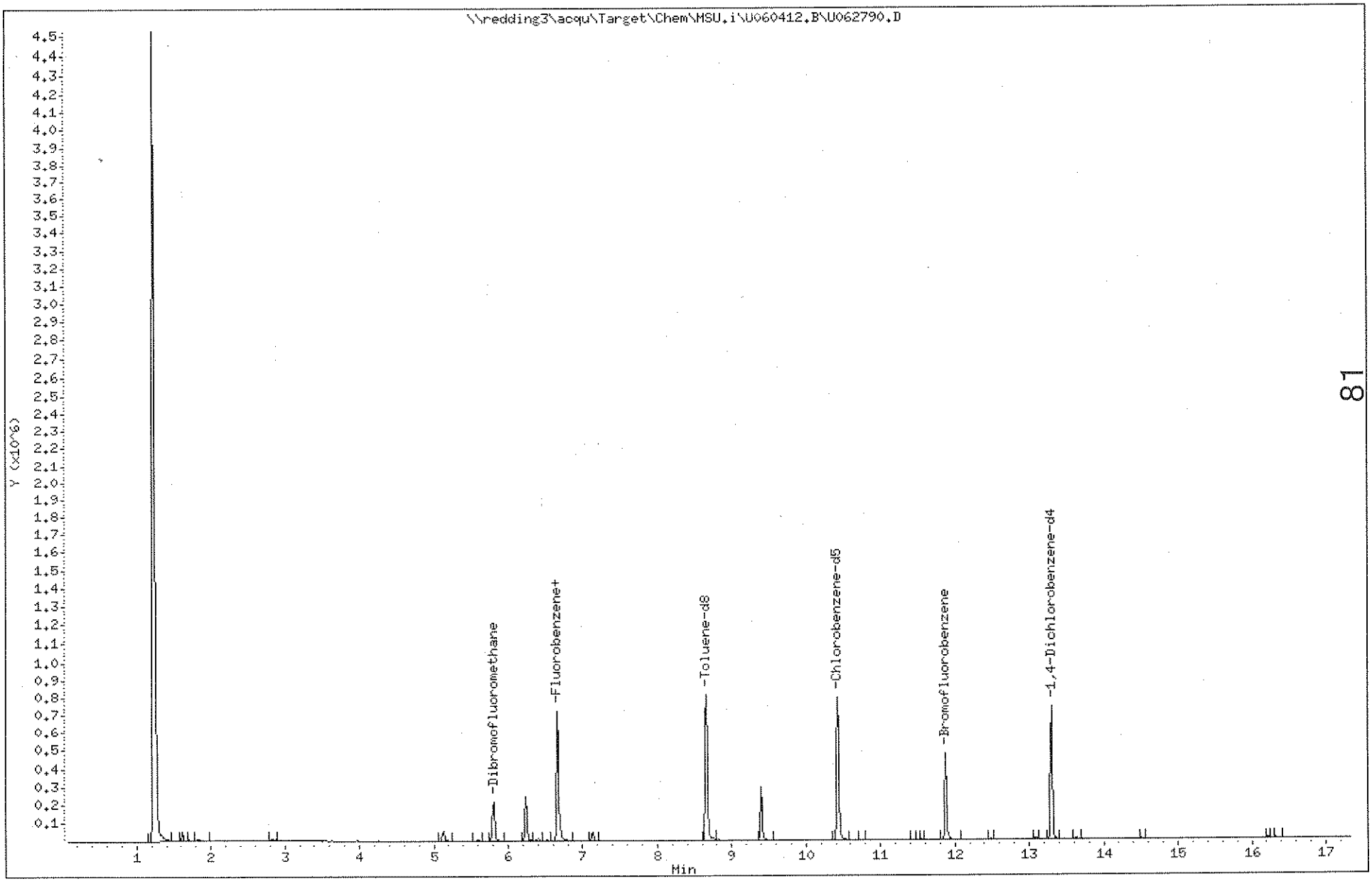
Sample Info: L0600578-007

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062790.D
Lab Smp Id: L0600578-007 Client Smp ID: B131-MW3D
Inj Date : 12-APR-2006 20:43
Operator : X Inst ID: MSU.i
Smp Info : L0600578-007
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\8260wCanoga.m
Meth Date : 14-Apr-2006 10:28 MSU.i Quant Type: ISTD
Cal Date : 28-MAR-2006 16:56 Cal File: U062457.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Canoga-LJ964.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	6.668	6.668	(1.000)	731386	10.0000	
*	2 Chlorobenzene-d5	117	10.425	10.425	(1.000)	505621	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	213647	10.0000	
$	4 Dibromofluoromethane	113	5.807	5.807	(0.871)	155946	9.99243	10
$	6 Toluene-d8	98	8.663	8.663	(0.831)	610101	9.64767	9.6
$	7 Bromofluorobenzene	174	11.883	11.883	(0.893)	162625	9.93261	9.9
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	1.615	1.615	(0.242)	37470	2.20726	2.2
	12 Bromomethane	94	Compound Not Detected.					
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	17 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	2.830	2.830	(0.424)	13117	3.09562	3.1(a)
	20 Carbon disulfide	76	Compound Not Detected.					
	21 Methylene chloride	84	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 tert-Butylmethylether	73	Compound Not Detected.					
	27 1,1-Dichloroethane	63	Compound Not Detected.					
	29 Vinyl acetate	43	Compound Not Detected.					
	31 2,2-Dichloropropane	77	Compound Not Detected.					

82

4/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	26531	1.29728	1.3
34	2-Butanone	43	5.200	5.190	(0.780)	5814	0.65939	0.66(a)
35	Bromochloromethane	128	Compound Not Detected.					
36	Chloroform	83	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
39	1,1-Dichloropropene	75	Compound Not Detected.					
40	Carbon tetrachloride	119	Compound Not Detected.					
42	Benzene	78	Compound Not Detected.					
43	1,2-Dichloroethane	62	6.668	6.334	(1.000)	8839	0.39134	~~0.39(a)~~
45	Trichloroethene	95	7.134	7.134	(1.070)	18115	0.99872	1.00
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	9.402	9.402	(0.902)	98103	5.50711	5.5
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
75	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062790.D

Date : 12-APR-2006 20:43

Client ID: B131-MW3D

Instrument: MSU.i

Sample Info: L0600578-007

Purge Volume: 10.0

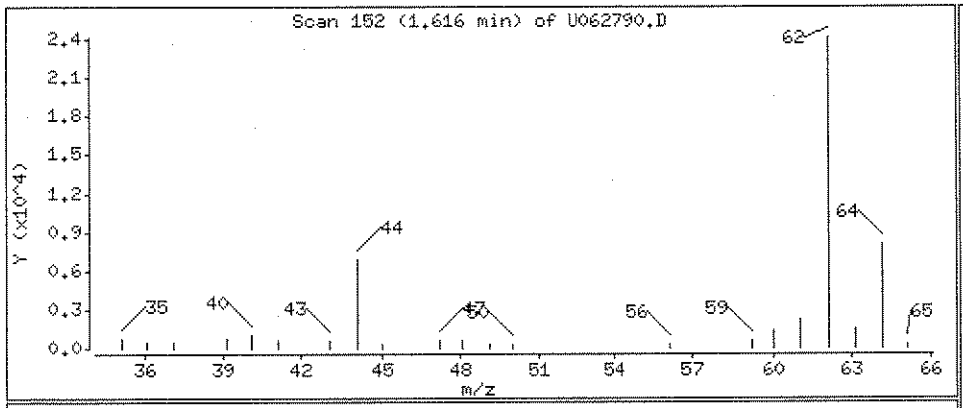
Operator: X

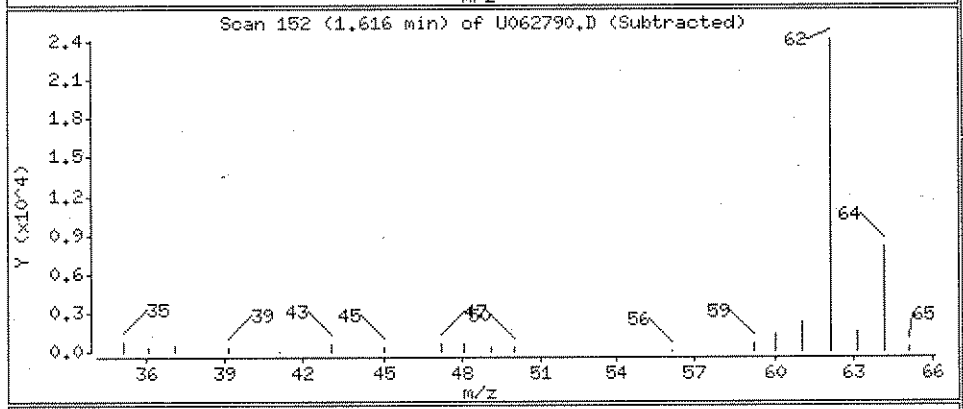
Column phase: DB-624

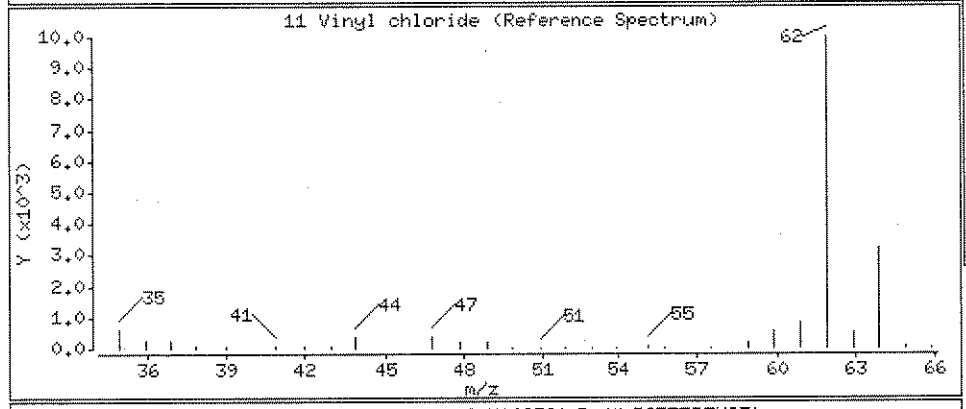
Column diameter: 0.32

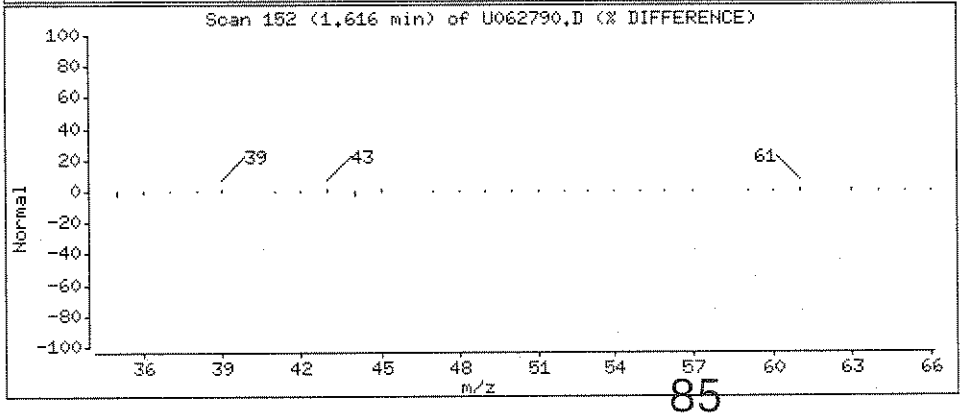
11 Vinyl chloride

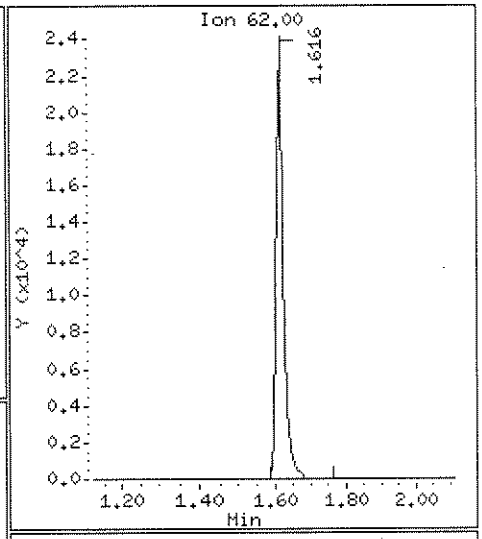
Concentration: 2.2 ug/L

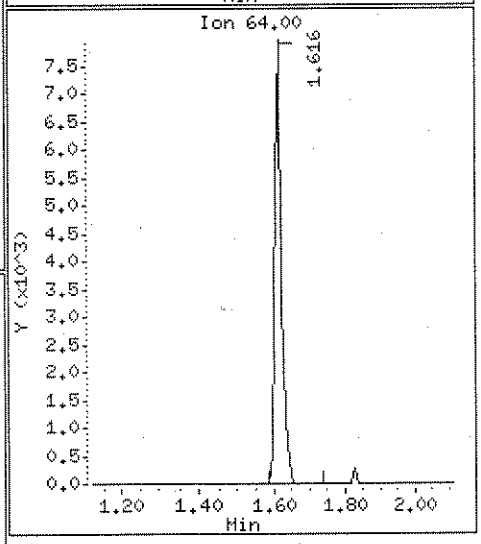












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Date : 12-APR-2006 20:43

Client ID: B131-MW3D

Instrument: MSU.i

Sample Info: L0600578-007

Purge Volume: 10.0

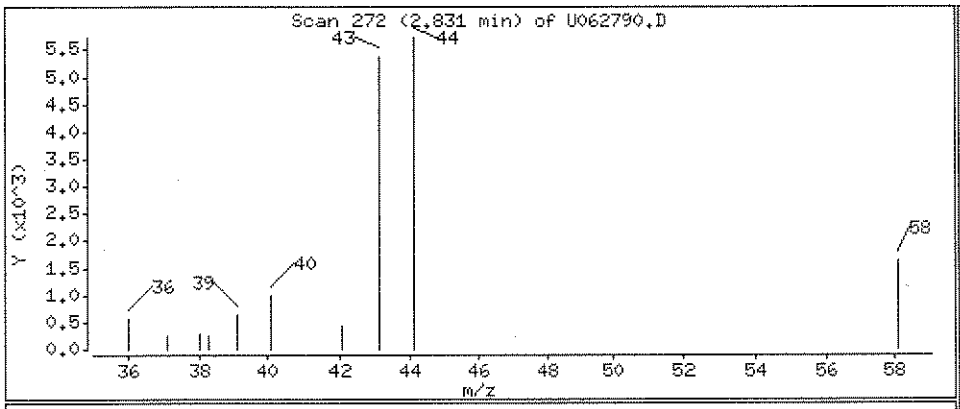
Operator: X

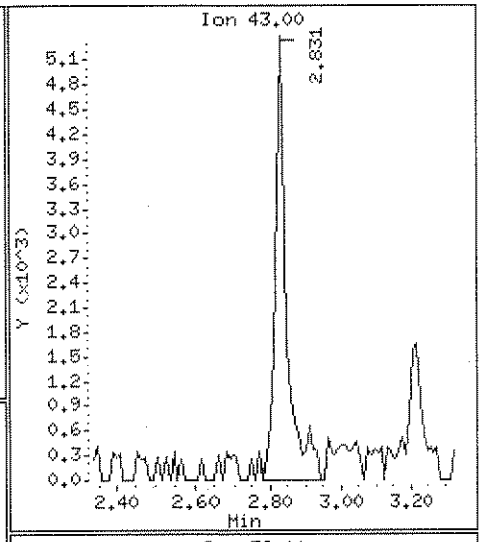
Column phase: DB-624

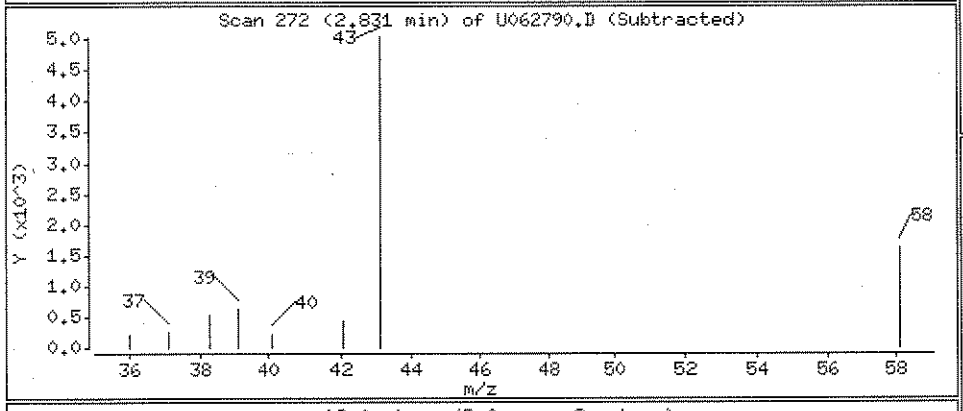
Column diameter: 0.32

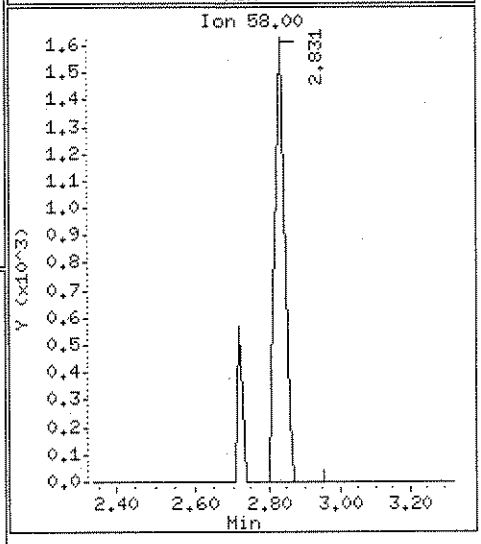
18 Acetone

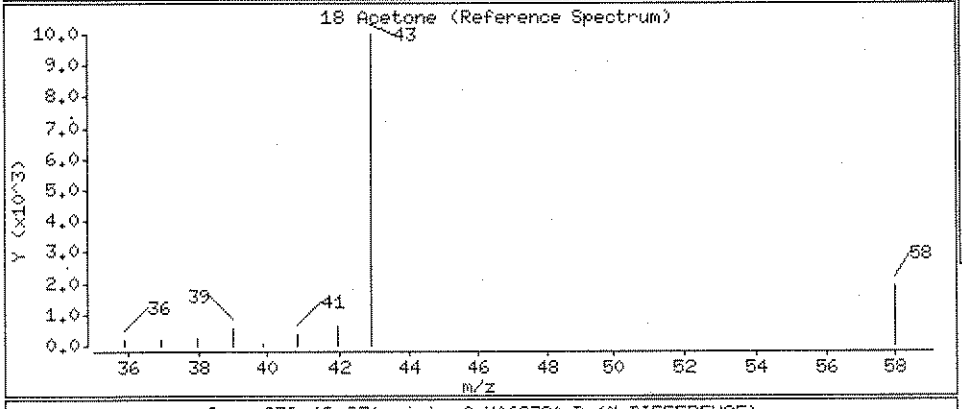
Concentration: 3.1 ug/L

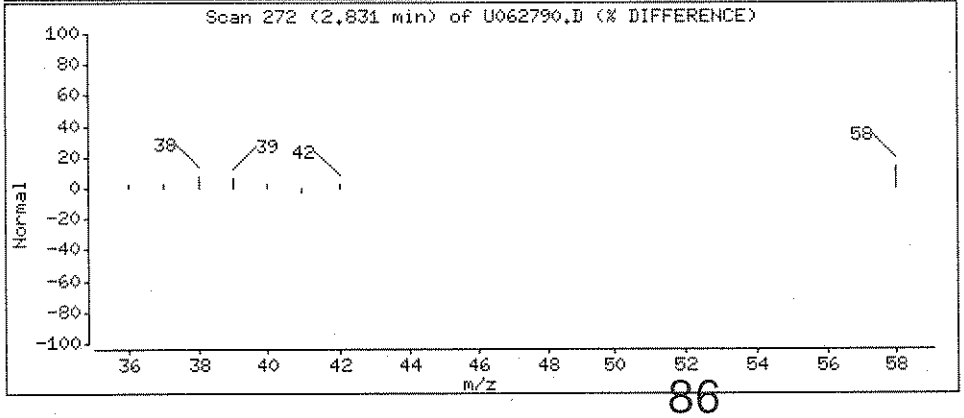












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062790.D

Date : 12-APR-2006 20:43

Client ID: B131-MW3D

Instrument: MSU.i

Sample Info: L0600578-007

Purge Volume: 10.0

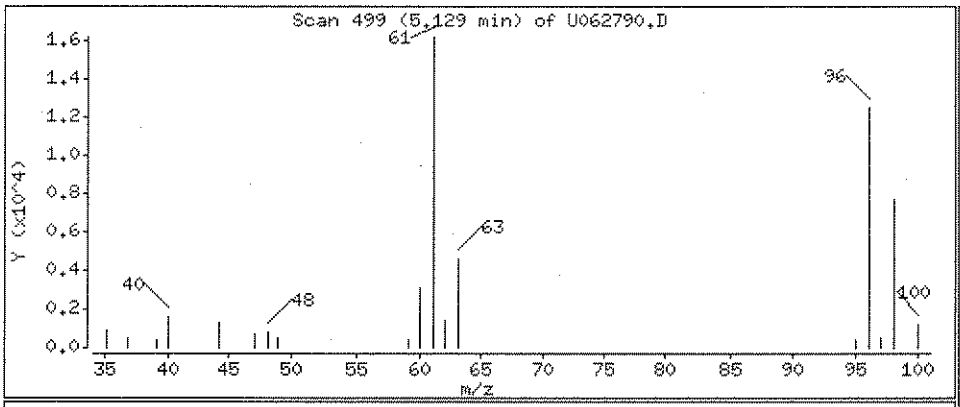
Operator: X

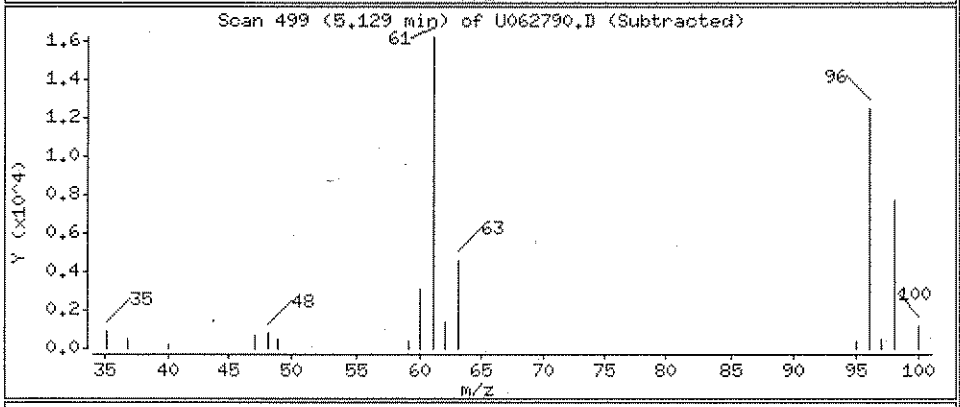
Column phase: DB-624

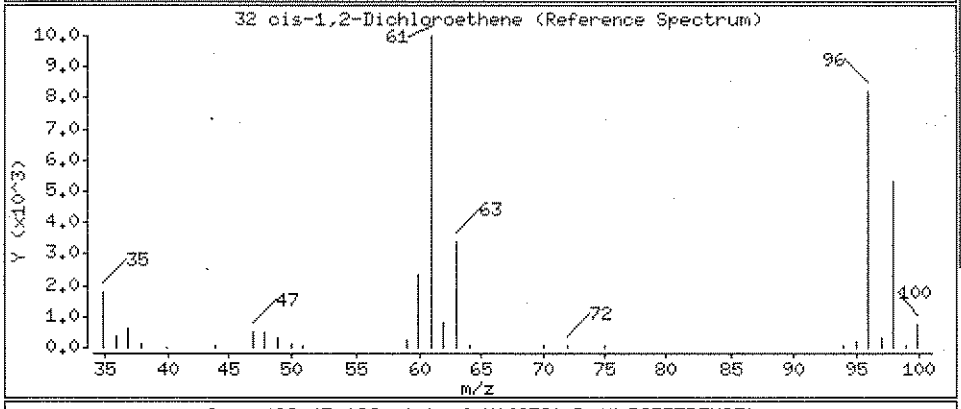
Column diameter: 0.32

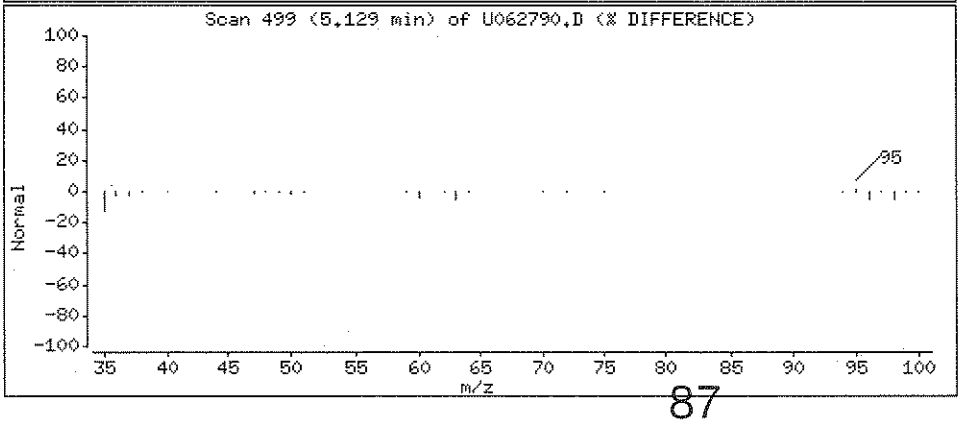
32 cis-1,2-Dichloroethene

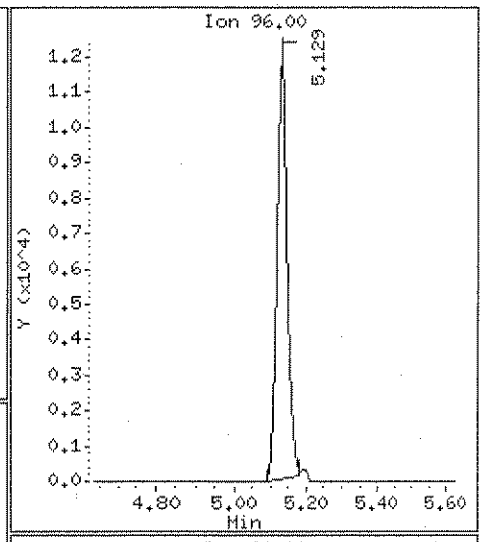
Concentration: 1.3 ug/L

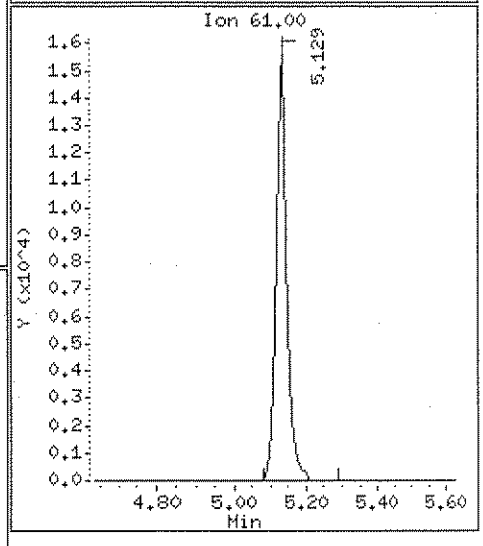












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062790.D

Date : 12-APR-2006 20:43

Client ID: B131-MW3D

Instrument: MSU.i

Sample Info: L0600578-007

Purge Volume: 10.0

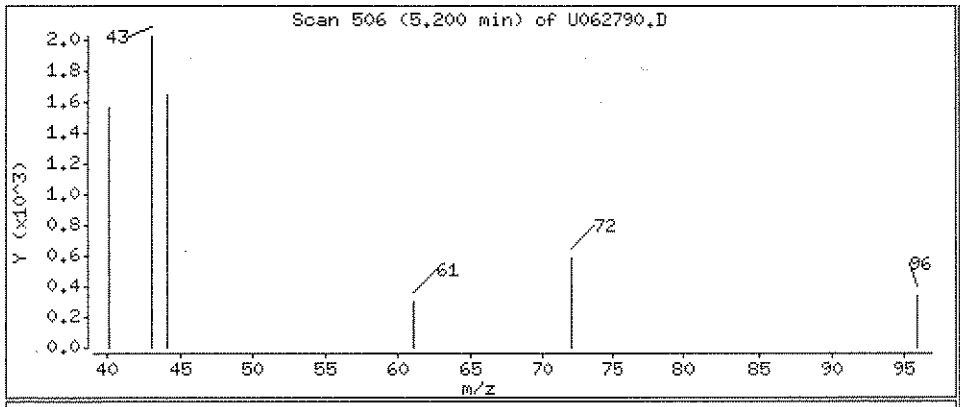
Operator: X

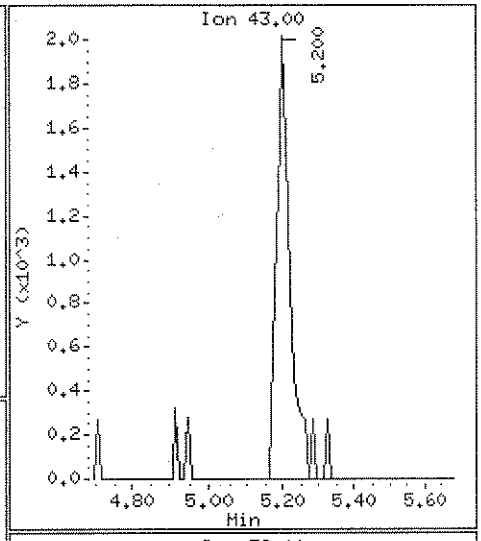
Column phase: DB-624

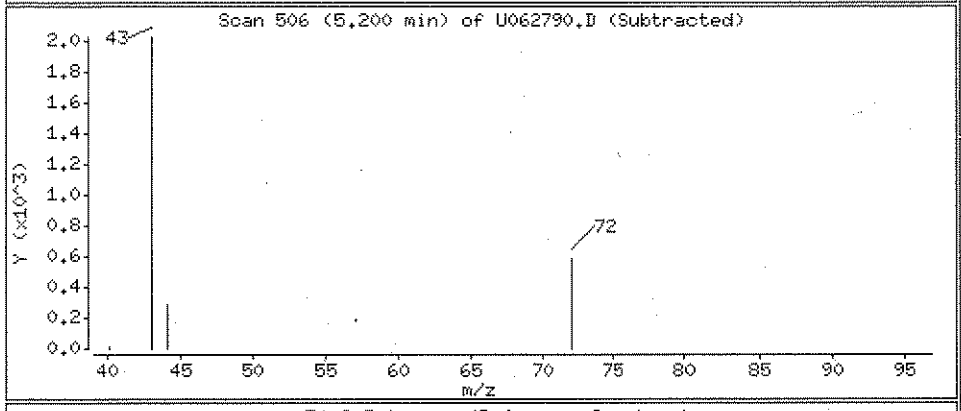
Column diameter: 0.32

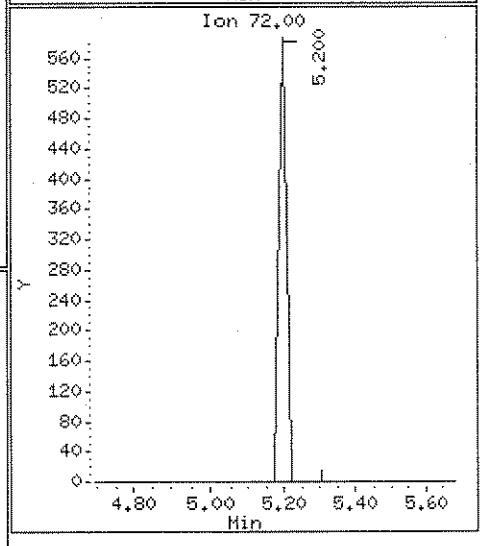
34 2-Butanone

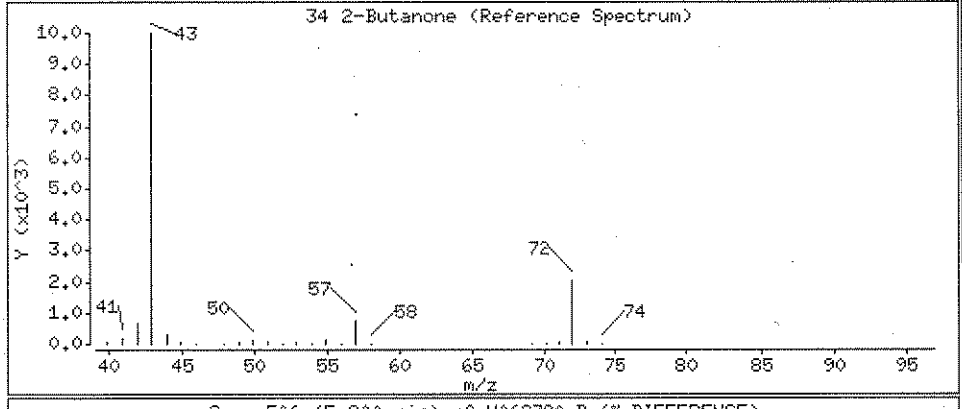
Concentration: 0.66 ug/L

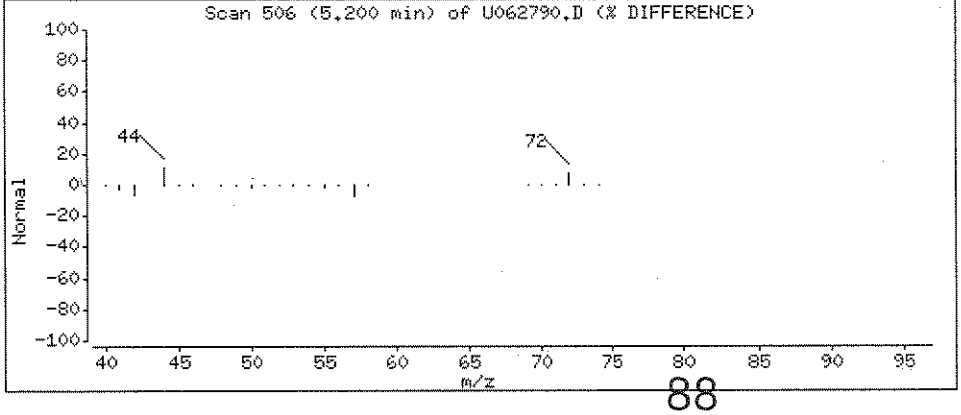












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062790.D

Date : 12-APR-2006 20:43

Client ID: B131-MW3D

Instrument: MSU.i

Sample Info: L0600578-007

Purge Volume: 10.0

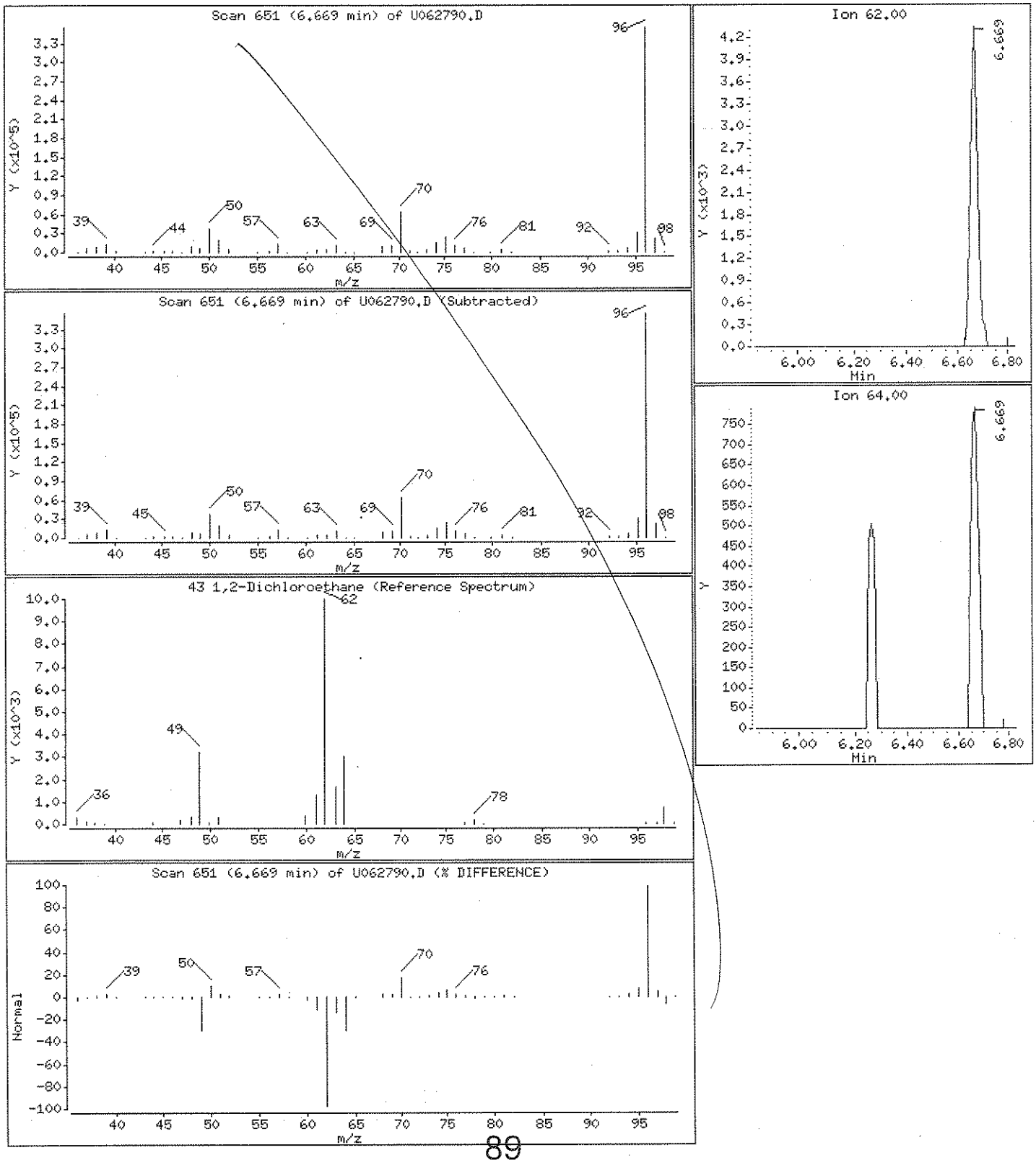
Operator: X

Column phase: DB-624

Column diameter: 0.32

43 1,2-Dichloroethane

Concentration: 0.39 ug/L



Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062790.D

Date : 12-APR-2006 20:43

Client ID: B131-MW3D

Instrument: MSU.i

Sample Info: L0600578-007

Purge Volume: 10.0

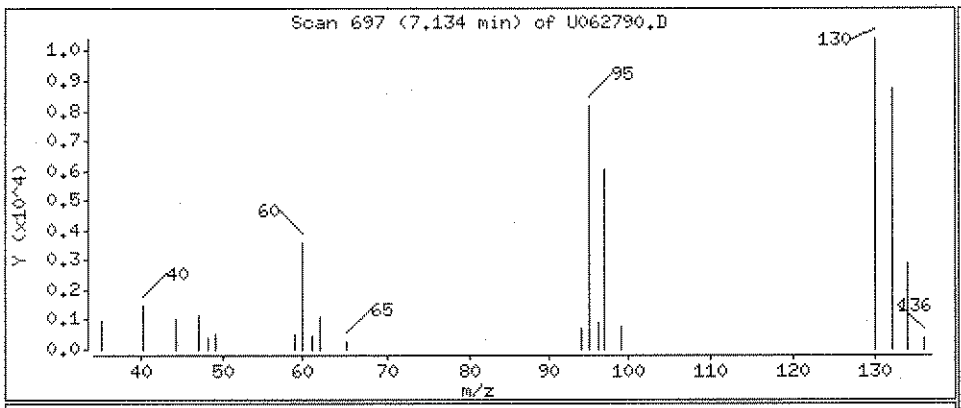
Operator: X

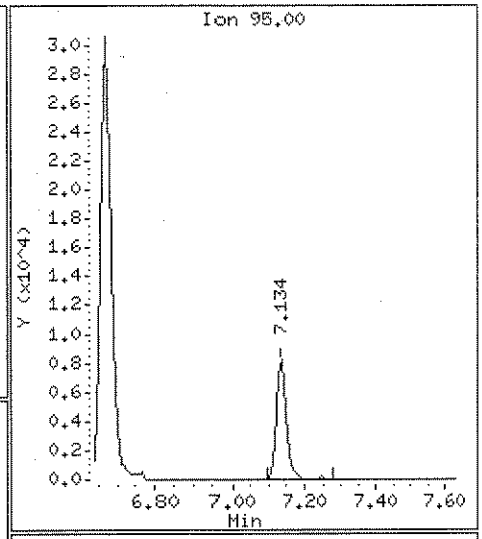
Column phase: DB-624

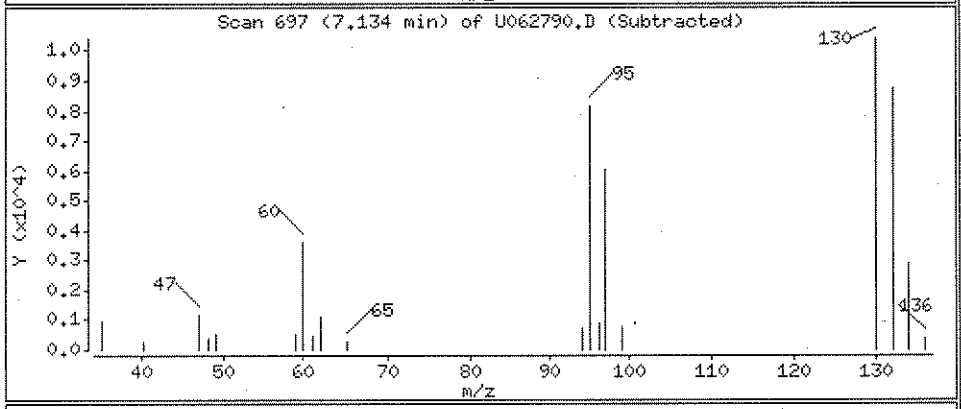
Column diameter: 0.32

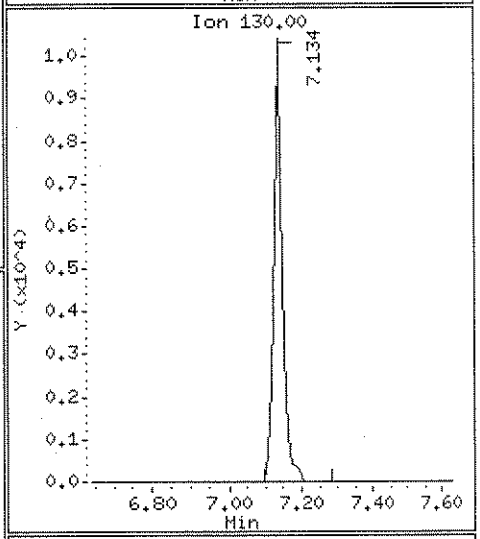
45 Trichloroethene

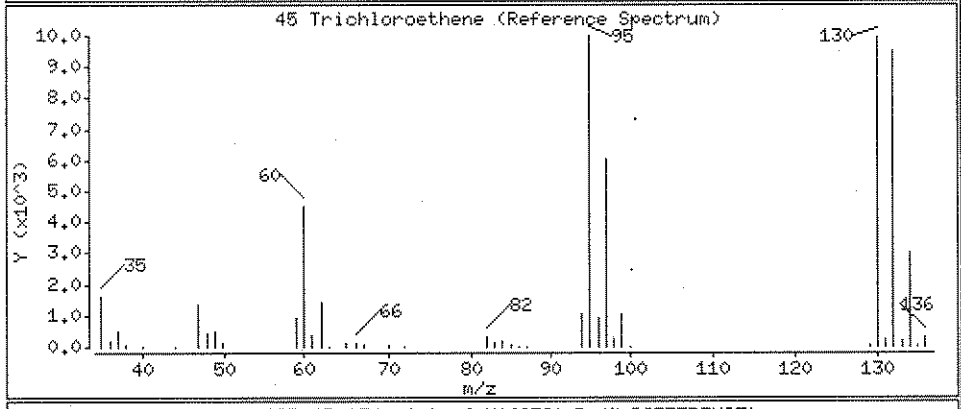
Concentration: 1.00 ug/L

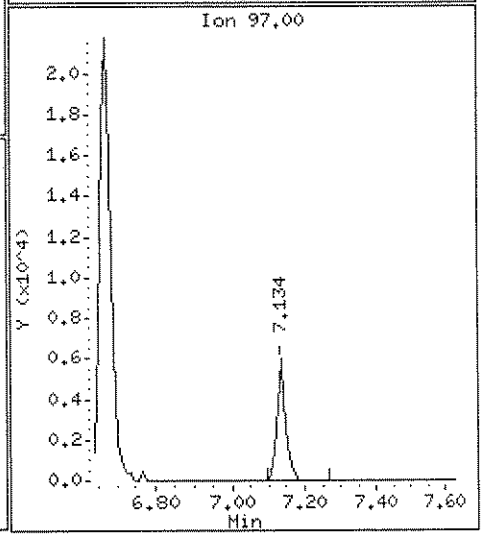


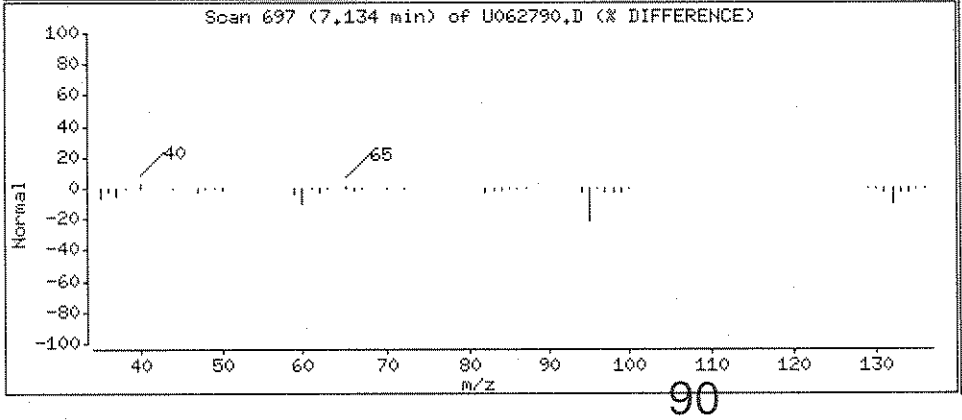












Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062790.D

Date : 12-APR-2006 20:43

Client ID: B131-MW3D

Instrument: MSU.i

Sample Info: L0600578-007

Purge Volume: 10.0

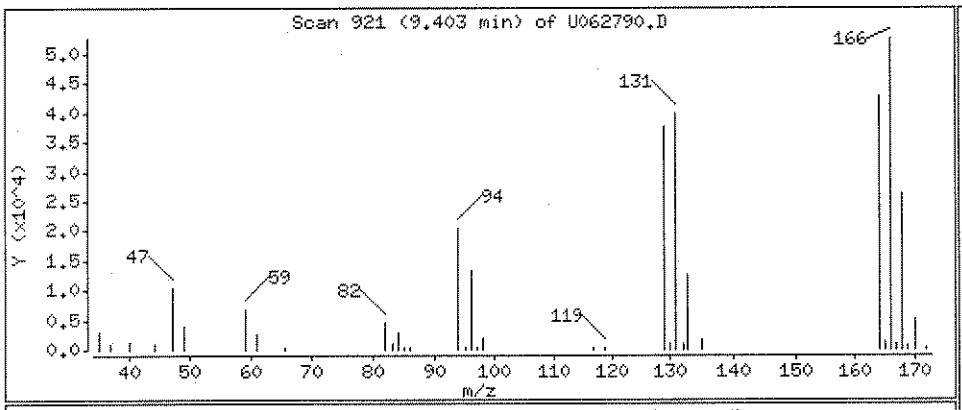
Operator: X

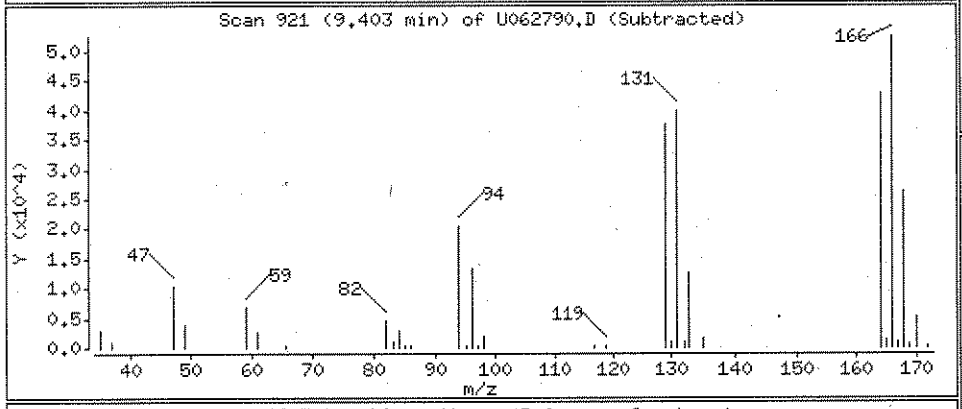
Column phase: DB-624

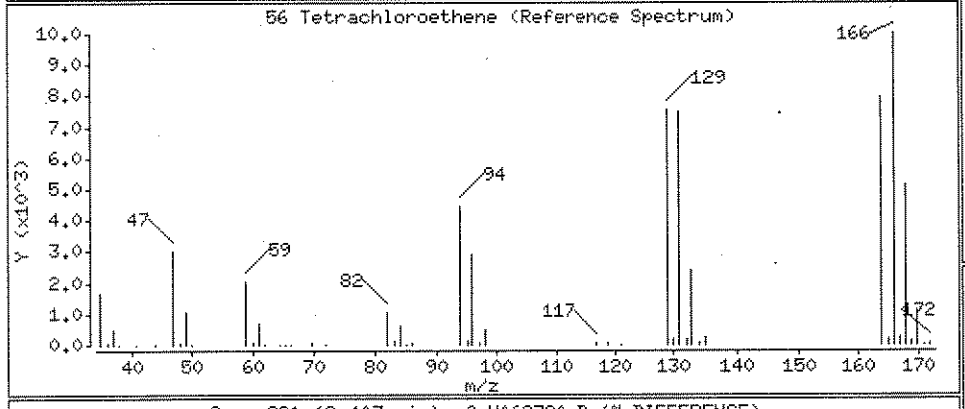
Column diameter: 0.32

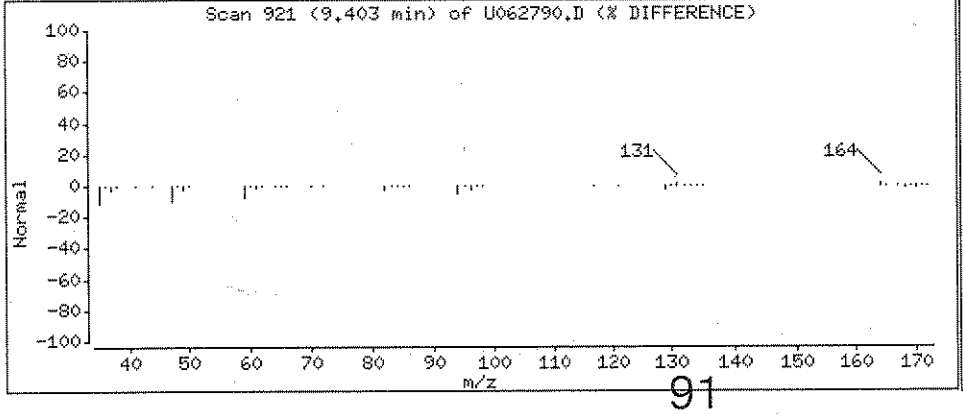
56 Tetrachloroethene

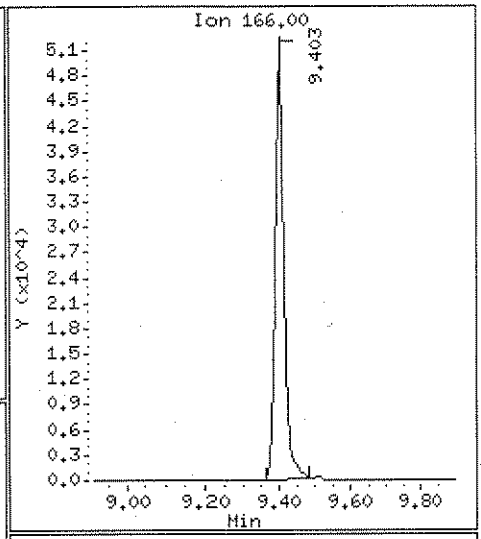
Concentration: 5.5 ug/L

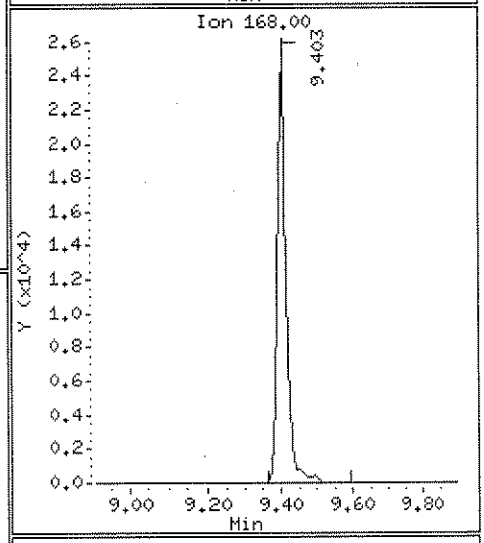


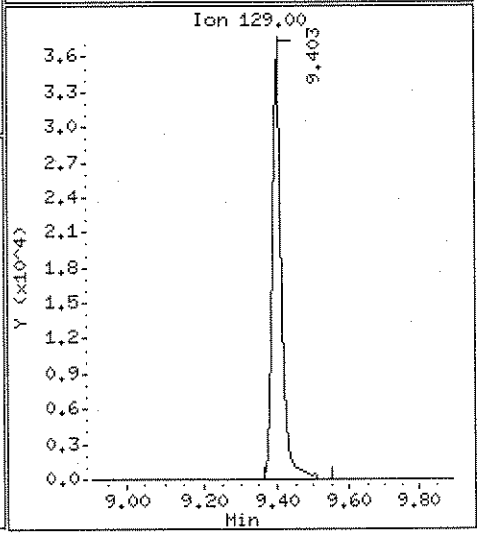












QC Summary

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3
Laboratory Control Sample	U0412W01LCS		104	97	95
Laboratory Control Sample Duplicate	U0412W01LCSD		104	94	95
Method Blank	U0412W01		108	96	90
B131-MW2D	L0600578-005		101	100	98
QCEB-033106	L0600578-006		103	105	101
B131-MW3D	L0600578-007		99	100	96

Surrogate Recovery Control Limits (%)

S1:	4-Bromofluorobenzene - SS	88-119
S2:	Dibromofluoromethane - SS	87-123
S3:	Toluene-d8 - SS	82-115

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
Date Analyzed: 04/12/2006
Time Analyzed: 1251

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: U062772
Instrument ID: MSU
Analysis Method: SW8260

Analysis Lot: MSU04/12/2006

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	747309	6.67	520161	10.43	233054	13.30
Upper Limit ==>	1494618	7.17	1040322	10.93	466108	13.80
Lower Limit ==>	373655	6.17	260081	9.93	116527	12.80

Associated Analyses

Laboratory Control Sample	U0412W01LCS	761458	6.67	526717	10.43	237278	13.30
Laboratory Control Sample Duplicate	U0412W01LCSD	754429	6.67	516148	10.43	232766	13.30
Method Blank	U0412W01	768221	6.67	534727	10.43	219059	13.30
B131-MW2D	L0600578-005	757357	6.67	518600	10.42	224427	13.30
QCEB-033106	L0600578-006	738502	6.67	517362	10.43	223288	13.30
B131-MW3D	L0600578-007	731386	6.67	505621	10.43	213647	13.30

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultant	**Service Request:**	L0600578
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	04/12/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	U0412W01LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane	SW5030	SW8260	1.0	10.0	8.8	9.2	88	92	58-132	4	
Chloromethane	SW5030	SW8260	1.0	10.0	8.3	8.1	83	81	67-125	2	
Vinyl chloride	SW5030	SW8260	0.50	10.0	9.4	9.3	94	93	73-125	1	
Bromomethane	SW5030	SW8260	1.0	10.0	8.6	8.5	86	85	51-155	1	
Chloroethane	SW5030	SW8260	1.0	10.0	10.3	9.8	103	98	73-128	5	
Trichlorofluoromethane	SW5030	SW8260	1.0	10.0	11.8	11.9	118	119	74-130	1	
1,1,2-Trichlorotrifluoroethane	SW5030	SW8260	2.0	10.0	11.4	11.7	114	117	81-117	2	
1,1-Dichloroethene	SW5030	SW8260	0.50	10.0	10.9	10.8	109	108	79-124	1	
Acetone	SW5030	SW8260	10	50.0	46.0	47.0	92	94	64-132	2	
Carbon disulfide	SW5030	SW8260	2.0	10.0	10.5	10.3	105	103	75-119	2	
Methylene chloride	SW5030	SW8260	2.0	10.0	10.7	10.3	107	103	79-119	4	
trans-1,2-Dichloroethene	SW5030	SW8260	0.50	10.0	10.4	10.1	104	101	83-119	3	
Tert-butylmethylether	SW5030	SW8260	2.0	10.0	10.1	9.8	101	98	77-123	3	
1,1-Dichloroethane	SW5030	SW8260	0.50	10.0	10.4	10.3	104	103	83-117	1	
Vinyl acetate	SW5030	SW8260	10	10.0	9.9	9.8	99	98	64-134	1	
2,2-Dichloropropane	SW5030	SW8260	0.50	10.0	10.3	9.8	103	98	68-139	5	
cis-1,2-Dichloroethene	SW5030	SW8260	0.50	10.0	10.2	10.0	102	100	85-116	2	
2-Butanone	SW5030	SW8260	10	50.0	45.7	47.9	91	96	68-130	5	
Bromochloromethane	SW5030	SW8260	0.50	10.0	11.0	10.4	110	104	85-118	6	
Chloroform	SW5030	SW8260	0.50	10.0	10.7	10.7	107	107	83-116	0	
1,1,1-Trichloroethane	SW5030	SW8260	0.50	10.0	10.8	10.4	108	104	82-118	4	
1,1-Dichloropropene	SW5030	SW8260	0.50	10.0	10.5	10.3	105	103	85-117	2	
Carbon tetrachloride	SW5030	SW8260	0.50	10.0	10.4	10.2	104	102	75-125	2	
Benzene	SW5030	SW8260	0.50	10.0	10.2	9.9	102	99	85-115	3	
1,2-Dichloroethane	SW5030	SW8260	0.50	10.0	11.0	10.9	110	109	80-122	1	
Trichloroethene	SW5030	SW8260	0.50	10.0	10.4	10.3	104	103	85-115	1	
1,2-Dichloropropane	SW5030	SW8260	0.50	10.0	9.8	9.9	98	99	83-116	1	
Dibromomethane	SW5030	SW8260	0.50	10.0	10.2	10.2	102	102	83-115	0	
Bromodichloromethane	SW5030	SW8260	1.0	10.0	10.4	10.4	104	104	80-118	0	
cis-1,3-Dichloropropene	SW5030	SW8260	0.50	10.0	9.7	9.7	97	97	81-118	0	
4-methyl-2-pentanone	SW5030	SW8260	10	50.0	46.4	48.9	93	98	76-124	5	
Toluene	SW5030	SW8260	0.50	10.0	10.4	10.2	104	102	86-116	2	
trans-1,3-Dichloropropene	SW5030	SW8260	0.50	10.0	9.7	9.7	97	97	77-121	0	
1,1,2-Trichloroethane	SW5030	SW8260	0.50	10.0	10.1	10.3	101	103	80-116	2	
Tetrachloroethene	SW5030	SW8260	0.50	10.0	11.2	11.0	112	110	85-118	2	
1,3-Dichloropropane	SW5030	SW8260	0.50	10.0	10.1	10.4	101	104	83-116	3	
2-Hexanone	SW5030	SW8260	10	50.0	44.1	47.0	88	94	71-127	6	

Client:	GeoSyntec Consultant	**Service Request:**	L0600578
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	04/12/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	U0412W01LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	SW5030	SW8260	1.0	10.0	9.9	10.2	99	102	74-122	3	
1,2-Dibromoethane	SW5030	SW8260	1.0	10.0	10.5	10.3	105	103	82-114	2	
Chlorobenzene	SW5030	SW8260	0.50	10.0	10.4	10.5	104	105	87-112	1	
1,1,1,2-Tetrachloroethane	SW5030	SW8260	0.50	10.0	10.0	9.8	100	98	79-119	2	
Ethylbenzene	SW5030	SW8260	0.50	10.0	10.4	10.3	104	103	87-116	1	
m-,p-Xylene	SW5030	SW8260	1.0	20.0	20.3	20.2	102	101	86-117	0	
o-Xylene	SW5030	SW8260	0.50	10.0	10.2	9.8	102	98	86-119	4	
Xylene (total)	SW5030	SW8260	1.5	30.0	30.5	30.0	102	100	86-117	2	
Styrene	SW5030	SW8260	0.50	10.0	10.2	10.1	102	101	86-118	1	
Bromoform	SW5030	SW8260	1.0	10.0	9.2	9.4	92	94	65-126	2	
Isopropylbenzene	SW5030	SW8260	1.0	10.0	10.6	10.4	106	104	86-118	2	
1,1,2,2-Tetrachloroethane	SW5030	SW8260	0.50	10.0	9.2	9.6	92	96	73-119	4	
Bromobenzene	SW5030	SW8260	1.0	10.0	11.1	10.8	111	108	86-116	3	
1,2,3-Trichloropropane	SW5030	SW8260	0.50	10.0	10.3	10.4	103	104	77-120	1	
n-Propylbenzene	SW5030	SW8260	1.0	10.0	10.4	10.2	104	102	84-121	2	
2-Chlorotoluene	SW5030	SW8260	1.0	10.0	10.4	10.2	104	102	84-119	2	
1,3,5-Trimethylbenzene	SW5030	SW8260	1.0	10.0	10.5	10.4	105	104	83-121	1	
4-Chlorotoluene	SW5030	SW8260	1.0	10.0	10.6	10.4	106	104	84-119	2	
tert-Butylbenzene	SW5030	SW8260	1.0	10.0	10.4	10.3	104	103	83-122	1	
1,2,4-Trimethylbenzene	SW5030	SW8260	1.0	10.0	10.5	10.4	105	104	83-120	1	
sec-Butylbenzene	SW5030	SW8260	1.0	10.0	10.2	10.2	102	102	82-121	0	
1,3-Dichlorobenzene	SW5030	SW8260	0.50	10.0	10.6	10.4	106	104	87-113	2	
p-Isopropyltoluene	SW5030	SW8260	1.0	10.0	10.3	10.1	103	101	84-120	2	
1,4-Dichlorobenzene	SW5030	SW8260	0.50	10.0	10.4	10.3	104	103	86-112	1	
n-Butylbenzene	SW5030	SW8260	1.0	10.0	10.3	10.0	103	100	80-123	3	
1,2-Dichlorobenzene	SW5030	SW8260	0.50	10.0	10.3	10.4	103	104	87-113	1	
1,2-Dibromo-3-chloropropane	SW5030	SW8260	2.0	50.0	45.0	48.0	90	96	67-124	6	
1,2,4-Trichlorobenzene	SW5030	SW8260	1.0	10.0	10.4	10.3	104	103	80-120	1	
Hexachlorobutadiene	SW5030	SW8260	1.0	10.0	11.2	10.7	112	107	76-127	4	
Naphthalene	SW5030	SW8260	1.0	10.0	9.2	9.6	92	96	70-127	4	
1,2,3-Trichlorobenzene	SW5030	SW8260	1.0	10.0	10.6	10.2	106	102	80-120	4	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Extracted: 04/12/2006
Date Analyzed: 04/12/2006
Time Analyzed: 15:12

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0412W01
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	U0412W01LCS	U062773	04/12/2006	13:30
Laboratory Control Sample Duplicate	U0412W01LCSD	U062774	04/12/2006	13:55
B131-MW2D	L0600578-005	U062788	04/12/2006	19:52
QCEB-033106	L0600578-006	U062789	04/12/2006	20:18
B131-MW3D	L0600578-007	U062790	04/12/2006	20:43

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
Date Analyzed: 03/28/2006
Time Analyzed: 0829

Tune Summary
Volatile Organic Compounds

File ID: U062451
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.7	157824	PASS
75	95	30	60	40.8	410048	PASS
95	95	100	100	100.0	1003904	PASS
96	95	5	9	6.6	65808	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	78.3	786304	PASS
175	174	5	9	7.4	57864	PASS
176	174	95	101	95.9	753984	PASS
177	176	5	9	6.6	49624	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD00.3	VSTD00.3	U062451	03/28/2006	1423	
VSTD00.5	VSTD00.5	U062452	03/28/2006	1448	
VSTD001	VSTD001	U062453	03/28/2006	1514	
VSTD005	VSTD005	U062454	03/28/2006	1539	
VSTD010	VSTD010	U062455	03/28/2006	1605	
VSTD020	VSTD020	U062456	03/28/2006	1630	
VSTD040	VSTD040	U062457	03/28/2006	1656	
QCALTSTD	QCALTSTD	U062459	03/28/2006	1747	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
Date Analyzed: 04/12/2006
Time Analyzed: 1146

Tune Summary
Volatile Organic Compounds

File ID: U062772
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.5	120168	PASS
75	95	30	60	42.3	308032	PASS
95	95	100	100	100.0	727360	PASS
96	95	5	9	6.5	46984	PASS
173	174	0	2	0.2	1045	PASS
174	95	50	100	82.6	600704	PASS
175	174	5	9	7.1	42640	PASS
176	174	95	101	96.0	576512	PASS
177	176	5	9	6.3	36056	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	U062772	04/12/2006	1251	
Laboratory Control Sample	U0412W01LCS	U062773	04/12/2006	1330	
Laboratory Control Sample Duplicate	U0412W01LCSD	U062774	04/12/2006	1355	
Method Blank	U0412W01	U062777	04/12/2006	1512	
B131-MW2D	L0600578-005	U062788	04/12/2006	1952	
QCEB-033106	L0600578-006	U062789	04/12/2006	2018	
B131-MW3D	L0600578-007	U062790	04/12/2006	2043	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Standards Data

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
ICAL Date: 03/28/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID
A	U062453
B	U062454
C	U062455
D	U062456
E	U062457
F	U062452
G	U062451

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dichlorodifluoromethane	A	1.000	0.174	B	5.000	0.162	C	10.00	0.181	D	20.00	0.172	E	40.00	0.180
* Chloromethane	A	1.000	0.307	B	5.000	0.258	C	10.00	0.288	D	20.00	0.263	E	40.00	0.274
# Vinyl chloride				B	5.000	0.210	C	10.00	0.236	D	20.00	0.226	E	40.00	0.239
	F	0.500	0.249												
Bromomethane	A	1.000	0.119	B	5.000	0.103	C	10.00	0.114	D	20.00	0.103	E	40.00	0.094
Chloroethane	A	1.000	0.137	B	5.000	0.122	C	10.00	0.139	D	20.00	0.126	E	40.00	0.131
Trichlorofluoromethane	A	1.000	0.261	B	5.000	0.241	C	10.00	0.272	D	20.00	0.259	E	40.00	0.271
1,1,2-Trichlorotrifluoroethane	A	1.000	0.152	B	5.000	0.140	C	10.00	0.167	D	20.00	0.157	E	40.00	0.164
# 1,1-Dichloroethene				B	5.000	0.126	C	10.00	0.147	D	20.00	0.140	E	40.00	0.145
	F	0.500	0.147												
Acetone	A	5.000	0.076	B	25.00	0.058	C	50.00	0.056	D	100.0	0.050	E	200.0	0.050
Carbon disulfide	A	1.000	0.453	B	5.000	0.431	C	10.00	0.490	D	20.00	0.459	E	40.00	0.486
Methylene chloride	A	1.000	0.183	B	5.000	0.157	C	10.00	0.170	D	20.00	0.158	E	40.00	0.163
trans-1,2-Dichloroethene				B	5.000	0.229	C	10.00	0.262	D	20.00	0.236	E	40.00	0.233
	F	0.500	0.255												
Tert-butylmethylether	A	1.000	0.712	B	5.000	0.732	C	10.00	0.772	D	20.00	0.703	E	40.00	0.713
* 1,1-Dichloroethane				B	5.000	0.410	C	10.00	0.459	D	20.00	0.442	E	40.00	0.461
	F	0.500	0.482												
Vinyl acetate	A	1.000	0.981	B	5.000	1.001	C	10.00	1.012	D	20.00	0.973	E	40.00	0.995
2,2-Dichloropropane				B	5.000	0.334	C	10.00	0.359	D	20.00	0.343	E	40.00	0.347
	F	0.500	0.439												
cis-1,2-Dichloroethene				B	5.000	0.253	C	10.00	0.273	D	20.00	0.265	E	40.00	0.276
	F	0.500	0.330												

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
ICAL Date: 03/28/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID
A	U062453
B	U062454
C	U062455
D	U062456
E	U062457
F	U062452
G	U062451

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Butanone	A	5.000	0.128	B	25.00	0.128	C	50.00	0.119	D	100.0	0.114	E	200.0	0.114
Bromochloromethane				B	5.000	0.119	C	10.00	0.125	D	20.00	0.121	E	40.00	0.123
	F	0.500	0.131												
# Chloroform				B	5.000	0.380	C	10.00	0.410	D	20.00	0.397	E	40.00	0.413
	F	0.500	0.460												
1,1,1-Trichloroethane				B	5.000	0.322	C	10.00	0.356	D	20.00	0.343	E	40.00	0.358
	F	0.500	0.406												
1,1-Dichloropropene				B	5.000	0.299	C	10.00	0.329	D	20.00	0.321	E	40.00	0.333
	F	0.500	0.352												
Carbon tetrachloride				B	5.000	0.243	C	10.00	0.275	D	20.00	0.268	E	40.00	0.280
	F	0.500	0.272												
Benzene				B	5.000	0.937	C	10.00	1.022	D	20.00	0.985	E	40.00	1.023
	F	0.500	1.092												
1,2-Dichloroethane				B	5.000	0.296	C	10.00	0.314	D	20.00	0.300	E	40.00	0.313
	F	0.500	0.320												
Trichloroethene				B	5.000	0.230	C	10.00	0.251	D	20.00	0.243	E	40.00	0.252
	F	0.500	0.264												
# 1,2-Dichloropropane				B	5.000	0.245	C	10.00	0.271	D	20.00	0.264	E	40.00	0.268
	F	0.500	0.273												
Dibromomethane				B	5.000	0.137	C	10.00	0.140	D	20.00	0.134	E	40.00	0.136
	F	0.500	0.146												
Bromodichloromethane	A	1.000	0.280	B	5.000	0.280	C	10.00	0.300	D	20.00	0.289	E	40.00	0.301
cis-1,3-Dichloropropene				B	5.000	0.382	C	10.00	0.407	D	20.00	0.393	E	40.00	0.406
	F	0.500	0.402												
4-methyl-2-pentanone	A	5.000	0.242	B	25.00	0.255	C	50.00	0.246	D	100.0	0.236	E	200.0	0.238
# Toluene				B	5.000	0.881	C	10.00	0.968	D	20.00	0.930	E	40.00	0.935
	F	0.500	1.019												
trans-1,3-Dichloropropene				B	5.000	0.488	C	10.00	0.527	D	20.00	0.516	E	40.00	0.519
	F	0.500	0.521												
1,1,2-Trichloroethane				B	5.000	0.239	C	10.00	0.247	D	20.00	0.234	E	40.00	0.237
	F	0.500	0.253												

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
ICAL Date: 03/28/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U062453	F	U062452
B	U062454	G	U062451
C	U062455		
D	U062456		
E	U062457		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Tetrachloroethene				B	5.000	0.323	C	10.00	0.367	D	20.00	0.351	E	40.00	0.350
	F	0.500	0.370												
1,3-Dichloropropane				B	5.000	0.529	C	10.00	0.550	D	20.00	0.531	E	40.00	0.536
	F	0.500	0.530												
2-Hexanone	A	5.000	0.248	B	25.00	0.253	C	50.00	0.245	D	100.0	0.236	E	200.0	0.231
Dibromochloromethane	A	1.000	0.280	B	5.000	0.291	C	10.00	0.310	D	20.00	0.303	E	40.00	0.308
1,2-Dibromoethane	A	1.000	0.315	B	5.000	0.296	C	10.00	0.315	D	20.00	0.297	E	40.00	0.301
* Chlorobenzene				B	5.000	0.892	C	10.00	1.004	D	20.00	0.963	E	40.00	0.966
	F	0.500	1.063												
1,1,1,2-Tetrachloroethane				B	5.000	0.315	C	10.00	0.350	D	20.00	0.342	E	40.00	0.342
	F	0.500	0.334												
# Ethylbenzene				B	5.000	1.482	C	10.00	1.642	D	20.00	1.604	E	40.00	1.622
	F	0.500	1.712												
m-,p-Xylene				B	10.00	0.585	C	20.00	0.645	D	40.00	0.628	E	80.00	0.625
	F	1.000	0.684												
o-Xylene				B	5.000	0.580	C	10.00	0.627	D	20.00	0.611	E	40.00	0.609
	F	0.500	0.659												
Xylene (total)				B	15.00	0.584	C	30.00	0.639	D	60.00	0.623	E	120.0	0.620
	F	1.500	0.676												
Styrene				B	5.000	0.970	C	10.00	1.038	D	20.00	1.012	E	40.00	1.026
	F	0.500	1.075												
* Bromoform	A	1.000	0.155	B	5.000	0.170	C	10.00	0.168	D	20.00	0.168	E	40.00	0.176
Isopropylbenzene	A	1.000	1.558	B	5.000	1.412	C	10.00	1.578	D	20.00	1.532	E	40.00	1.553
* 1,1,2,2-Tetrachloroethane				B	5.000	0.803	C	10.00	0.818	D	20.00	0.781	E	40.00	0.738
	F	0.500	0.960												
Bromobenzene	A	1.000	0.836	B	5.000	0.792	C	10.00	0.872	D	20.00	0.850	E	40.00	0.817
1,2,3-Trichloropropane				B	5.000	0.246	C	10.00	0.256	D	20.00	0.249	E	40.00	0.231
	F	0.500	0.283												

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
ICAL Date: 03/28/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID
A	U062453
B	U062454
C	U062455
D	U062456
E	U062457
F	U062452
G	U062451

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
n-Propylbenzene	A	1.000	0.957	B	5.000	0.872	C	10.00	0.962	D	20.00	0.913	E	40.00	0.852
2-Chlorotoluene	A	1.000	0.816	B	5.000	0.753	C	10.00	0.835	D	20.00	0.807	E	40.00	0.776
1,3,5-Trimethylbenzene	A	1.000	2.683	B	5.000	2.476	C	10.00	2.791	D	20.00	2.684	E	40.00	2.608
4-Chlorotoluene	A	1.000	0.827	B	5.000	0.759	C	10.00	0.848	D	20.00	0.816	E	40.00	0.773
tert-Butylbenzene	A	1.000	2.248	B	5.000	2.146	C	10.00	2.388	D	20.00	2.317	E	40.00	2.234
1,2,4-Trimethylbenzene	A	1.000	2.669	B	5.000	2.453	C	10.00	2.727	D	20.00	2.646	E	40.00	2.583
sec-Butylbenzene	A	1.000	3.187	B	5.000	2.899	C	10.00	3.252	D	20.00	3.167	E	40.00	3.062
1,3-Dichlorobenzene				B	5.000	1.415	C	10.00	1.584	D	20.00	1.524	E	40.00	1.469
	F	0.500	1.684												
p-Isopropyltoluene	A	1.000	2.777	B	5.000	2.579	C	10.00	2.876	D	20.00	2.802	E	40.00	2.727
1,4-Dichlorobenzene				B	5.000	1.478	C	10.00	1.617	D	20.00	1.554	E	40.00	1.504
	F	0.500	1.798												
n-Butylbenzene	A	1.000	2.311	B	5.000	2.111	C	10.00	2.344	D	20.00	2.273	E	40.00	2.197
1,2-Dichlorobenzene				B	5.000	1.371	C	10.00	1.477	D	20.00	1.425	E	40.00	1.360
	F	0.500	1.675												
1,2-Dibromo-3-chloropropane				B	25.00	0.131	C	50.00	0.131	D	100.0	0.123	E	200.0	0.118
				G	1.500	0.129									
1,2,4-Trichlorobenzene	A	1.000	0.825	B	5.000	0.792	C	10.00	0.858	D	20.00	0.828	E	40.00	0.793
Hexachlorobutadiene	A	1.000	0.251	B	5.000	0.244	C	10.00	0.270	D	20.00	0.261	E	40.00	0.251
Naphthalene	A	1.000	1.981	B	5.000	1.922	C	10.00	2.018	D	20.00	1.960	E	40.00	1.869
1,2,3-Trichlorobenzene	A	1.000	0.732	B	5.000	0.724	C	10.00	0.753	D	20.00	0.738	E	40.00	0.701

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
ICAL Date: 03/28/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U062453	F	U062452
B	U062454	G	U062451
C	U062455		
D	U062456		
E	U062457		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dibromofluoromethane	A	1.000	0.203	B	5.000	0.198	C	10.00	0.227	D	20.00	0.219	E	40.00	0.220
Toluene-d8	A	1.000	1.331	B	5.000	1.189	C	10.00	1.273	D	20.00	1.228	E	40.00	1.233
Bromofluorobenzene	A	1.000	0.802	B	5.000	0.735	C	10.00	0.792	D	20.00	0.776	E	40.00	0.727

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
ICAL Date: 03/28/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU
Mean RSD: 5.33

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
Dichlorodifluoromethane	TRG	AverageRF	% RSD	4.5		15.0	0.174		0.01
* Chloromethane	TRG	AverageRF	% RSD	7.1		15.0	0.278		0.10
# Vinyl chloride	TRG	AverageRF	% RSD	6.3		15.0	0.232		0.01
Bromomethane	TRG	AverageRF	% RSD	9.2		15.0	0.107		0.01
Chloroethane	TRG	AverageRF	% RSD	5.4		15.0	0.131		0.01
Trichlorofluoromethane	TRG	AverageRF	% RSD	4.7		15.0	0.261		0.01
1,1,2-Trichlorotrifluoroethane	TRG	AverageRF	% RSD	6.8		15.0	0.156		0.01
# 1,1-Dichloroethene	TRG	AverageRF	% RSD	6.3		15.0	0.141		0.01
Acetone	TRG	AverageRF	% RSD	18.6		15.0	0.058		0.01
Carbon disulfide	TRG	AverageRF	% RSD	5.3		15.0	0.464		0.01
Methylene chloride	TRG	AverageRF	% RSD	6.3		15.0	0.166		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	6.1		15.0	0.243		0.01
Tert-butylmethylether	TRG	AverageRF	% RSD	3.8		15.0	0.726		0.01
* 1,1-Dichloroethane	TRG	AverageRF	% RSD	5.9		15.0	0.451		0.10
Vinyl acetate	TRG	AverageRF	% RSD	1.6		15.0	0.992		0.01
2,2-Dichloropropane	TRG	AverageRF	% RSD	11.7		15.0	0.364		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	10.6		15.0	0.279		0.01
2-Butanone	TRG	AverageRF	% RSD	5.7		15.0	0.121		0.01
Bromochloromethane	TRG	AverageRF	% RSD	3.6		15.0	0.124		0.01
# Chloroform	TRG	AverageRF	% RSD	7.2		15.0	0.412		0.01
1,1,1-Trichloroethane	TRG	AverageRF	% RSD	8.7		15.0	0.357		0.01
1,1-Dichloropropene	TRG	AverageRF	% RSD	5.9		15.0	0.327		0.01
Carbon tetrachloride	TRG	AverageRF	% RSD	5.4		15.0	0.268		0.01
Benzene	TRG	AverageRF	% RSD	5.6		15.0	1.012		0.01
1,2-Dichloroethane	TRG	AverageRF	% RSD	3.2		15.0	0.309		0.01
Trichloroethene	TRG	AverageRF	% RSD	5.0		15.0	0.248		0.01
# 1,2-Dichloropropane	TRG	AverageRF	% RSD	4.3		15.0	0.264		0.01
Dibromomethane	TRG	AverageRF	% RSD	3.3		15.0	0.139		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	3.6		15.0	0.290		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	2.7		15.0	0.398		0.01
4-methyl-2-pentanone	TRG	AverageRF	% RSD	3.1		15.0	0.243		0.01
# Toluene	TRG	AverageRF	% RSD	5.4		15.0	0.947		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	2.9		15.0	0.514		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	3.1		15.0	0.242		0.01
Tetrachloroethene	TRG	AverageRF	% RSD	5.3		15.0	0.352		0.01
1,3-Dichloropropane	TRG	AverageRF	% RSD	1.6		15.0	0.535		0.01
2-Hexanone	TRG	AverageRF	% RSD	3.8		15.0	0.243		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
ICAL Date: 03/28/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU
Mean RSD: 5.33

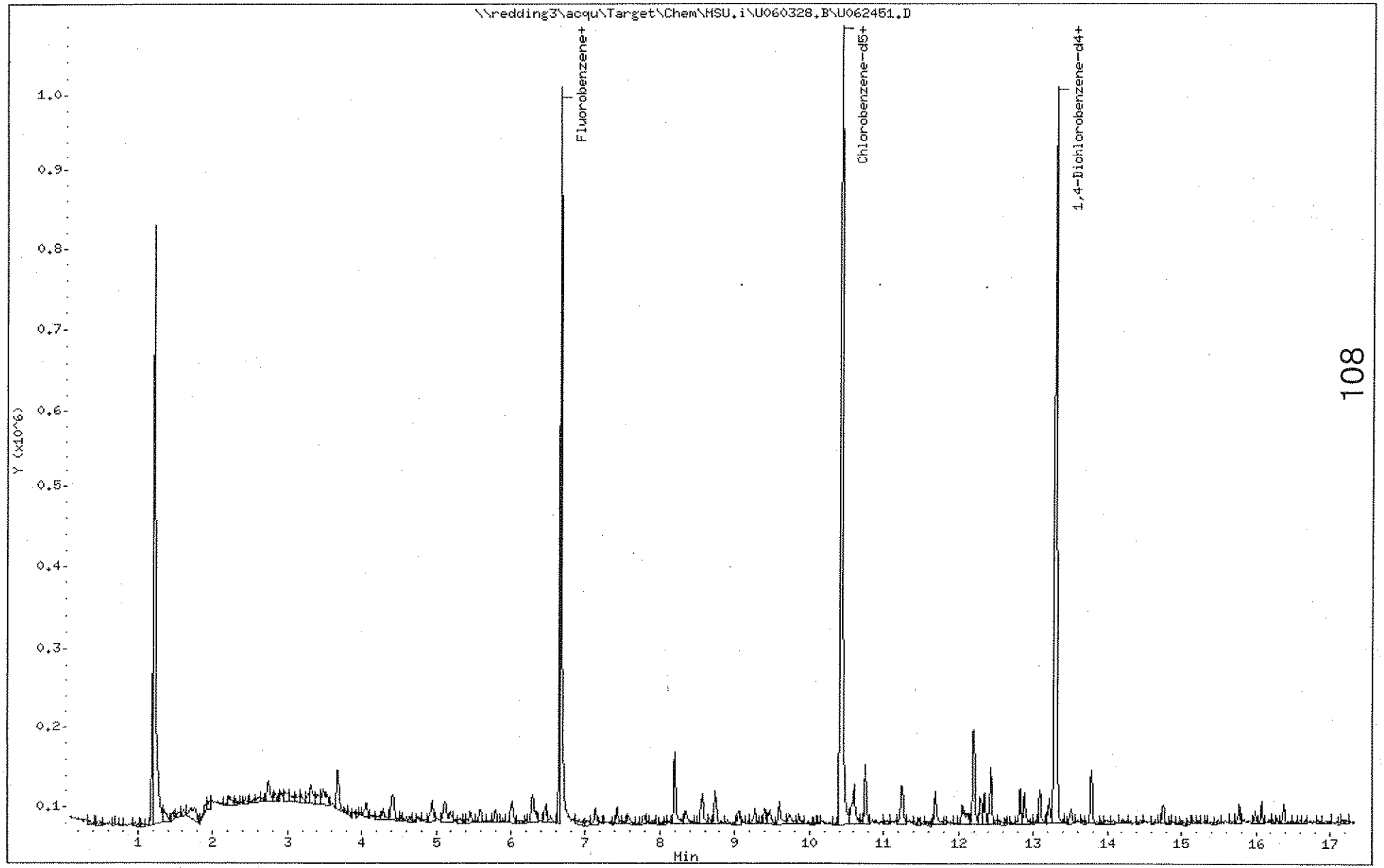
Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Dibromochloromethane	TRG	AverageRF	% RSD	4.3		15.0	0.298		0.01
1,2-Dibromoethane	TRG	AverageRF	% RSD	3.1		15.0	0.305		0.01
* Chlorobenzene	TRG	AverageRF	% RSD	6.4		15.0	0.978		0.30
1,1,1,2-Tetrachloroethane	TRG	AverageRF	% RSD	4.0		15.0	0.337		0.01
# Ethylbenzene	TRG	AverageRF	% RSD	5.2		15.0	1.612		0.01
m-,p-Xylene	TRG	AverageRF	% RSD	5.7		15.0	0.633		0.01
o-Xylene	TRG	AverageRF	% RSD	4.7		15.0	0.617		0.01
Xylene (total)	TRG	AverageRF	% RSD	5.3		15.0	0.628		0.01
Styrene	TRG	AverageRF	% RSD	3.8		15.0	1.024		0.01
* Bromoform	TRG	AverageRF	% RSD	4.6		15.0	0.167		0.10
Isopropylbenzene	TRG	AverageRF	% RSD	4.3		15.0	1.527		0.01
* 1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	10.2		15.0	0.820		0.30
Bromobenzene	TRG	AverageRF	% RSD	3.7		15.0	0.833		0.01
1,2,3-Trichloropropane	TRG	AverageRF	% RSD	7.6		15.0	0.253		0.01
n-Propylbenzene	TRG	AverageRF	% RSD	5.4		15.0	0.911		0.01
2-Chlorotoluene	TRG	AverageRF	% RSD	4.1		15.0	0.797		0.01
1,3,5-Trimethylbenzene	TRG	AverageRF	% RSD	4.4		15.0	2.648		0.01
4-Chlorotoluene	TRG	AverageRF	% RSD	4.6		15.0	0.805		0.01
tert-Butylbenzene	TRG	AverageRF	% RSD	4.0		15.0	2.267		0.01
1,2,4-Trimethylbenzene	TRG	AverageRF	% RSD	4.0		15.0	2.616		0.01
sec-Butylbenzene	TRG	AverageRF	% RSD	4.4		15.0	3.113		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	6.8		15.0	1.535		0.01
p-Isopropyltoluene	TRG	AverageRF	% RSD	4.0		15.0	2.752		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	8.0		15.0	1.590		0.01
n-Butylbenzene	TRG	AverageRF	% RSD	4.2		15.0	2.247		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	8.7		15.0	1.462		0.01
1,2-Dibromo-3-chloropropane	TRG	AverageRF	% RSD	4.4		15.0	0.126		0.01
1,2,4-Trichlorobenzene	TRG	AverageRF	% RSD	3.4		15.0	0.819		0.01
Hexachlorobutadiene	TRG	AverageRF	% RSD	4.0		15.0	0.255		0.01
Naphthalene	TRG	AverageRF	% RSD	2.9		15.0	1.950		0.01
1,2,3-Trichlorobenzene	TRG	AverageRF	% RSD	2.7		15.0	0.730		0.01
Dibromofluoromethane	SUR	AverageRF	% RSD	5.8		15.0	0.213		0.01
Toluene-d8	SUR	AverageRF	% RSD	4.3		15.0	1.251		0.01
Bromofluorobenzene	SUR	AverageRF	% RSD	4.4		15.0	0.766		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062451.D
Date : 28-MAR-2006 14:23
Client ID: VSTD00.3
Sample Info: VSTD00.3;VSTD00.3
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: X
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062451.D
Lab Smp Id: VSTD00.3 Client Smp ID: VSTD00.3
Inj Date : 28-MAR-2006 14:23
Operator : X Inst ID: MSU.i
Smp Info : VSTD00.3;VSTD00.3
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\8260wCanoga.m
Meth Date : 30-Mar-2006 14:25 tchilder Quant Type: ISTD
Cal Date : 28-MAR-2006 14:23 Cal File: U062451.D
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
*	1 Fluorobenzene	96	6.668	6.668	(1.000)	933371	10.0000		
*	2 Chlorobenzene-d5	117	10.425	10.425	(1.000)	640671	10.0000		
*	3 1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	281304	10.0000		
$	4 Dibromofluoromethane	113	Compound Not Detected.						
$	5 1,2-Dichloroethane-d4	65	Compound Not Detected.						
$	6 Toluene-d8	98	Compound Not Detected.						
$	7 Bromofluorobenzene	174	Compound Not Detected.						
	8 Dichlorodifluoromethane	85	1.362	1.362	(0.204)	5387	0.30000		(aQ)
	9 1,2-Dichlorotetrafluoroethane	85	1.362	1.362	(0.204)	5387	0.30000		(aQ)
	10 Chloromethane	50	1.534	1.534	(0.230)	12420	0.30000		(aQ)
	11 Vinyl chloride	62	1.615	1.615	(0.242)	6759	0.30000		(aQ)
	12 Bromomethane	94	1.898	1.899	(0.285)	3576	0.30000		(aQ)
	13 Chloroethane	64	1.990	1.990	(0.298)	5496	0.30000		(aQ)
	14 Trichlorofluoromethane	101	2.222	2.223	(0.333)	7606	0.30000		(aQ)
	15 1,1,2-Trichlorotrifluoroethane	101	2.739	2.749	(0.411)	5565	0.30000		(aQ)
	16 Acrolein	56	2.648	2.659	(0.397)	3216	0.30000		(aQ)
	17 1,1-Dichloroethene	96	2.749	2.749	(0.412)	5123	0.30000		(aQ)
	18 Acetone	43	2.830	2.830	(0.424)	12369	0.30000		(aQ)
	19 Iodomethane	142	2.911	2.912	(0.437)	7563	0.30000		(aQ)
	20 Carbon disulfide	76	2.972	2.972	(0.446)	16316	0.30000		(a)
	21 Methylene chloride	84	3.326	3.326	(0.499)	10505	0.30000		(aQ)
	22 tert-Butanol	59	3.539	3.529	(0.531)	7944	0.30000		(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	23 Acrylonitrile	53	3.681	3.671	(0.552)	27203	0.30000		(aQ)
	24 n-Hexane	57	4.055	4.055	(0.608)	11511	0.30000		(aQ)
	25 trans-1,2-Dichloroethene	96	3.671	3.671	(0.550)	11035	0.30000		(aQ)
	26 tert-Butylmethylether	73	3.681	3.691	(0.552)	22666	0.30000		(a)
	27 1,1-Dichloroethane	63	4.288	4.288	(0.643)	13762	0.30000		(aQ)
	28 Isopropylether	45	4.420	4.420	(0.663)	28967	0.30000		(a)
	29 Vinyl acetate	43	4.410	4.410	(0.661)	30366	0.30000		(a)
	30 tert-Butylethylether	59	4.946	4.947	(0.742)	26786	0.30000		(aQ)
	31 2,2-Dichloropropane	77	5.108	5.109	(0.766)	14379	0.30000		(a)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	9205	0.30000		(aQ)
M	33 1,2-Dichloroethene (total)	96				20240	0.30000		(a)
	34 2-Butanone	43	5.200	5.190	(0.780)	21458	0.30000		(a)
	35 Bromochloromethane	128	5.463	5.463	(0.819)	3659	0.30000		(aQ)
	36 Chloroform	83	5.595	5.585	(0.839)	13094	0.30000		(aQ)
	37 1,1,1-Trichloroethane	97	5.797	5.797	(0.869)	10886	0.30000		(aQ)
	38 Isobutyl alcohol	43	6.303	6.303	(0.945)	8376	0.30000		(aQ)
	39 1,1-Dichloropropene	75	6.010	6.020	(0.901)	9831	0.30000		(aQ)
	40 Carbon tetrachloride	119	6.010	6.000	(0.901)	7592	0.30000		(aQ)
	41 tert-Amylmethylether	73	6.465	6.466	(0.970)	23135	0.30000		(a)
	42 Benzene	78	6.293	6.293	(0.944)	30552	0.30000		(a)
	43 1,2-Dichloroethane	62	6.334	6.334	(0.950)	8161	0.30000		(aQ)
	44 n-Heptane	71	6.668	6.668	(1.000)	13386	0.30000		(aQ)
	45 Trichloroethene	95	7.134	7.134	(1.070)	7618	0.30000		(aQ)
	46 1,2-Dichloropropane	63	7.417	7.417	(1.112)	6934	0.30000		(aQ)
	47 1,4-Dioxane	88	7.630	7.620	(1.144)	1075	0.30000		(aQ)
	48 Dibromomethane	93	7.569	7.569	(1.135)	3786	0.30000		(aQ)
	49 Bromodichloromethane	83	7.782	7.792	(1.167)	8373	0.30000		(aQ)
	50 2-Chloroethylvinyl ether	63	8.197	8.197	(1.229)	45331	0.30000		(aQ)
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	10490	0.30000		(aQ)
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	34763	0.30000		(aQ)
	53 Toluene	92	8.744	8.744	(0.839)	20734	0.30000		(aQ)
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	9306	0.30000		(aQ)
	55 1,1,2-Trichloroethane	83	9.270	9.260	(0.889)	4581	0.30000		(aQ)
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	6728	0.30000		(aQ)
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	10995	0.30000		(aQ)
	58 2-Hexanone	43	9.594	9.595	(0.920)	22551	0.30000		(aQ)
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	5285	0.30000		(aQ)
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	6088	0.30000		(aQ)
	61 1-Chlorohexane	91	10.455	10.456	(1.003)	11521	0.30000		(aQ)
	62 Chlorobenzene	112	10.465	10.465	(1.004)	19835	0.30000		(aQ)
	63 1,1,1,2-Tetrachloroethane	131	10.567	10.577	(1.014)	6312	0.30000		(aQ)
	64 Ethylbenzene	91	10.607	10.607	(1.017)	33245	0.30000		(aQ)
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	27441	0.30000		(aQ)
	66 o-Xylene	106	11.235	11.235	(1.078)	12441	0.30000		(aQ)
M	67 Xylene (total)	106				39882	0.30000		(a)
	68 Styrene	104	11.255	11.255	(1.080)	20384	0.30000		(aQ)
	69 Bromoform	173	11.478	11.478	(1.101)	2833	0.30000		(aQ)
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	32056	0.30000		(a)
	71 1,1,2,2-Tetrachloroethane	83	12.085	12.086	(0.909)	7077	0.30000		(aQ)
	72 Bromobenzene	156	12.055	12.055	(0.906)	8236	0.30000		(aQ)
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	2241	0.30000		(aQ)
	74 trans-1,4-Dichloro-2-butene	75	Compound Not Detected.						
	75 n-Propylbenzene	120	12.207	12.207	(0.918)	9411	0.30000		(aQ)
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	7097	0.30000		(aQ)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
77 4-Ethyltoluene	105	12.349	12.349	(0.928)	32289	0.30000		(a)
78 1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	26605	0.30000		(aQ)
79 4-Chlorotoluene	126	12.430	12.430	(0.935)	7368	0.30000		(aQ)
80 tert-Butylbenzene	119	12.825	12.825	(0.964)	22892	0.30000		(aQ)
81 1,2,4-Trimethylbenzene	105	12.885	12.886	(0.969)	25430	0.30000		(aQ)
82 sec-Butylbenzene	105	13.088	13.088	(0.984)	32564	0.30000		(a)
83 1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	13442	0.30000		(aQ)
84 p-Isopropyltoluene	119	13.280	13.280	(0.998)	26470	0.30000		(a)
85 1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	14448	0.30000		(aQ)
86 BenzylChloride	91	13.513	13.513	(1.016)	15745	0.30000		(a)
87 n-Butylbenzene	91	13.787	13.787	(1.037)	21602	0.30000		(aQ)
88 1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	12808	0.30000		(aQ)
89 1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	5440	1.50000	1.5	(aQ)
90 1,2,4-Trichlorobenzene	180	15.782	15.772	(1.187)	8808	0.30000		(aQ)
91 Hexachlorobutadiene	225	15.994	15.994	(1.203)	3561	0.30000		(aQ)
92 Naphthalene	128	16.075	16.075	(1.209)	19001	0.30000		(a)
93 1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	8014	0.30000		(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062452.D

Date : 28-MAR-2006 14:48

Client ID: VSTD00.5

Instrument: MSU.i

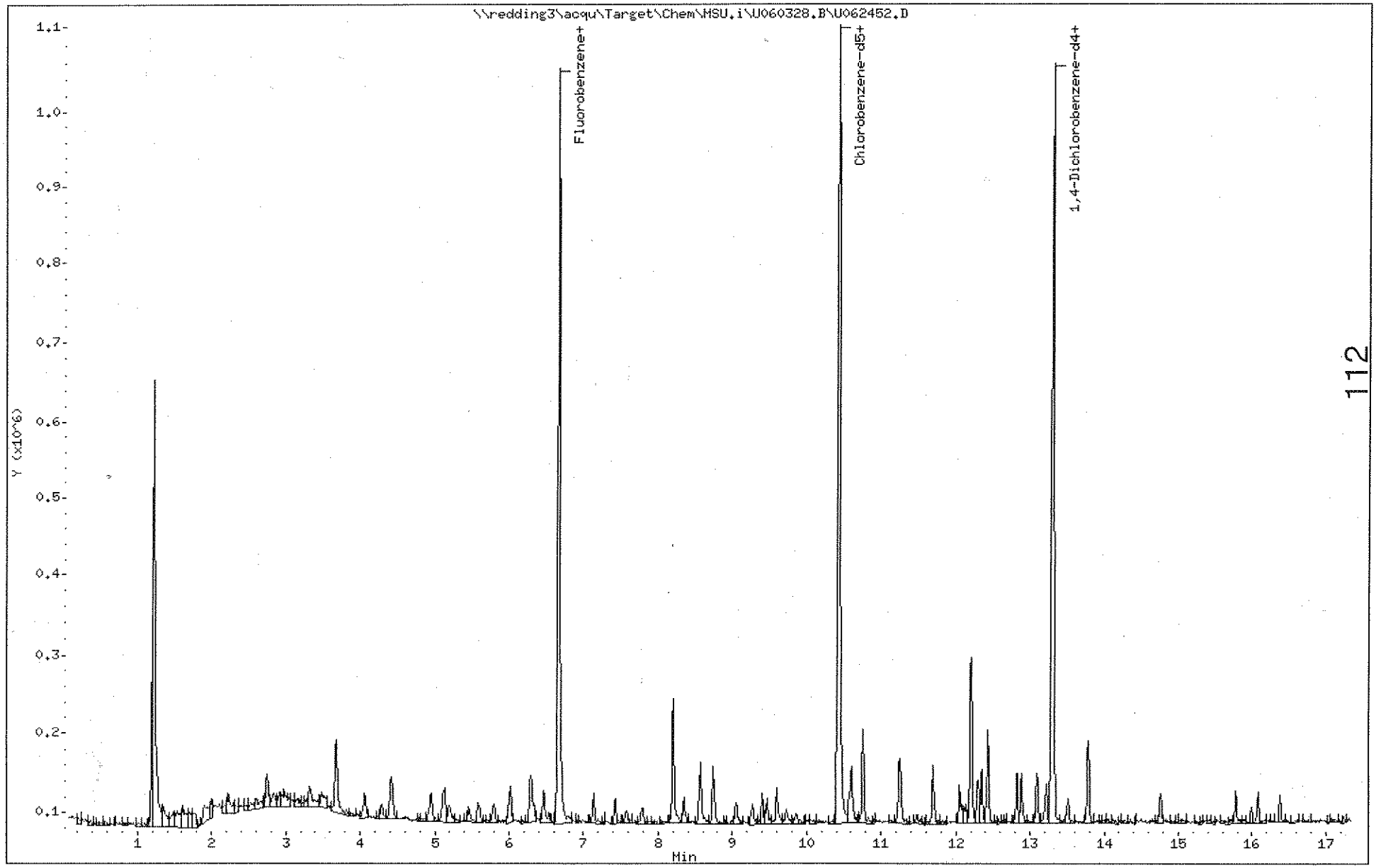
Sample Info: VSTD00.5;VSTD00.5

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062452.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 28-MAR-2006 14:48
Operator : X Inst ID: MSU.i
Smp Info : VSTD00.5;VSTD00.5
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\8260wCanoga.m
Meth Date : 30-Mar-2006 14:25 tchilder Quant Type: ISTD
Cal Date : 28-MAR-2006 14:48 Cal File: U062452.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
*	1 Fluorobenzene	96	6.668	6.668	(1.000)	952484	10.0000		
*	2 Chlorobenzene-d5	117	10.425	10.425	(1.000)	658977	10.0000		
*	3 1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	279751	10.0000		
$	4 Dibromofluoromethane	113	Compound Not Detected.						
$	5 1,2-Dichloroethane-d4	65	Compound Not Detected.						
$	6 Toluene-d8	98	Compound Not Detected.						
$	7 Bromofluorobenzene	174	Compound Not Detected.						
	8 Dichlorodifluoromethane	85	1.362	1.362	(0.204)	9294	0.50000		(aQ)
	9 1,2-Dichlorotetrafluoroethane	85	1.362	1.362	(0.204)	9294	0.50000		(aQ)
	10 Chloromethane	50	1.534	1.534	(0.230)	18085	0.50000		(aQ)
	11 Vinyl chloride	62	1.615	1.615	(0.242)	11878	0.50000	0.50	(aQ)
	12 Bromomethane	94	1.899	1.899	(0.285)	7774	0.50000		(aQ)
	13 Chloroethane	64	1.990	1.990	(0.298)	8151	0.50000		(aQ)
	14 Trichlorofluoromethane	101	2.223	2.223	(0.333)	12679	0.50000		(aQ)
	15 1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	8503	0.50000		(aQ)
	16 Acrolein	56	2.658	2.659	(0.399)	4065	5.00000		(aQ)
	17 1,1-Dichloroethene	96	2.739	2.749	(0.411)	7023	0.50000	0.50	(aQ)
	18 Acetone	43	2.830	2.830	(0.424)	19243	2.50000		(a)
	19 Iodomethane	142	2.911	2.912	(0.437)	14094	0.50000		(aQ)
	20 Carbon disulfide	76	2.972	2.972	(0.446)	25291	0.50000		(a)
	21 Methylene chloride	84	3.326	3.326	(0.499)	12535	0.50000		(aQ)
	22 tert-Butanol	59	3.539	3.529	(0.531)	13807	5.00000		(aQ)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	23 Acrylonitrile	53	3.681	3.671	(0.552)	44375	5.00000	(aQ)
	24 n-Hexane	57	4.056	4.055	(0.608)	20894	0.50000	(aQ)
	25 trans-1,2-Dichloroethene	96	3.671	3.671	(0.551)	12157	0.50000	0.50(aQ)
	26 tert-Butylmethylether	73	3.691	3.691	(0.554)	39091	0.50000	(a)
	27 1,1-Dichloroethane	63	4.288	4.288	(0.643)	22941	0.50000	0.50(aQ)
	28 Isopropylether	45	4.420	4.420	(0.663)	49460	0.50000	(a)
	29 Vinyl acetate	43	4.410	4.410	(0.661)	51213	0.50000	(a)
	30 tert-Butylethylether	59	4.947	4.947	(0.742)	45669	0.50000	(aQ)
	31 2,2-Dichloropropane	77	5.109	5.109	(0.766)	20915	0.50000	0.50(aQ)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	15739	0.50000	0.50(aQ)
M	33 1,2-Dichloroethene (total)	96				27896	0.50000	1.0
	34 2-Butanone	43	5.190	5.190	(0.778)	33151	2.50000	(a)
	35 Bromochloromethane	128	5.463	5.463	(0.819)	6229	0.50000	0.50(aQ)
	36 Chloroform	83	5.595	5.585	(0.839)	21917	0.50000	0.50(aQ)
	37 1,1,1-Trichloroethane	97	5.797	5.797	(0.869)	19314	0.50000	0.50(aQ)
	38 Isobutyl alcohol	43	6.304	6.303	(0.945)	13825	12.5000	(aQ)
	39 1,1-Dichloropropene	75	6.020	6.020	(0.903)	16786	0.50000	0.50(aQ)
	40 Carbon tetrachloride	119	6.010	6.000	(0.901)	12931	0.50000	0.50(aQ)
	41 tert-Amylmethylether	73	6.466	6.466	(0.970)	37944	0.50000	(aQ)
	42 Benzene	78	6.293	6.293	(0.944)	52025	0.50000	0.50(a)
	43 1,2-Dichloroethane	62	6.344	6.334	(0.951)	15220	0.50000	0.50(aQ)
	44 n-Heptane	71	6.668	6.668	(1.000)	16997	0.50000	(aQ)
	45 Trichloroethene	95	7.134	7.134	(1.070)	12551	0.50000	0.50(aQ)
	46 1,2-Dichloropropane	63	7.428	7.417	(1.114)	12985	0.50000	0.50(aQ)
	47 1,4-Dioxane	88	7.630	7.620	(1.144)	2927	12.5000	(aQ)
	48 Dibromomethane	93	7.579	7.569	(1.137)	6953	0.50000	0.50(aQ)
	49 Bromodichloromethane	83	7.792	7.792	(1.169)	13996	0.50000	(aQ)
	50 2-Chloroethylvinyl ether	63	8.197	8.197	(1.229)	80582	5.00000	(aQ)
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	19147	0.50000	0.50(aQ)
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	60370	2.50000	(aQ)
	53 Toluene	92	8.744	8.744	(0.839)	33582	0.50000	0.50(aQ)
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	17174	0.50000	0.50(aQ)
	55 1,1,2-Trichloroethane	83	9.260	9.260	(0.888)	8324	0.50000	0.50(aQ)
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	12192	0.50000	0.50(aQ)
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	17455	0.50000	0.50(aQ)
	58 2-Hexanone	43	9.595	9.595	(0.920)	38931	2.50000	(aQ)
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	9093	0.50000	(aQ)
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	11204	0.50000	(aQ)
	61 1-Chlorohexane	91	10.455	10.456	(1.003)	19626	0.50000	(aQ)
	62 Chlorobenzene	112	10.465	10.465	(1.004)	35013	0.50000	0.50(aQ)
	63 1,1,1,2-Tetrachloroethane	131	10.567	10.577	(1.014)	11007	0.50000	0.50(aQ)
	64 Ethylbenzene	91	10.607	10.607	(1.017)	56395	0.50000	0.50(aQ)
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	45110	1.00000	1.0(Q)
	66 o-Xylene	106	11.235	11.235	(1.078)	21722	0.50000	0.50(aQ)
M	67 Xylene (total)	106				66832	1.50000	1.5
	68 Styrene	104	11.255	11.255	(1.080)	35423	0.50000	0.50(aQ)
	69 Bromoform	173	11.478	11.478	(1.101)	5030	0.50000	(aQ)
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	54967	0.50000	(a)
	71 1,1,2,2-Tetrachloroethane	83	12.086	12.086	(0.909)	13430	0.50000	0.50(aQ)
	72 Bromobenzene	156	12.055	12.055	(0.906)	13970	0.50000	(aQ)
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	3962	0.50000	0.50(aQ)
	74 trans-1,4-Dichloro-2-butene	75	12.430	12.430	(0.935)	1185	0.50000	(aQ)
	75 n-Propylbenzene	120	12.207	12.207	(0.918)	14342	0.50000	(aQ)
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	12224	0.50000	(aQ)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
77 4-Ethyltoluene	105	12.349	12.349	(0.928)	51950	0.50000		(aQ)
78 1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	42422	0.50000		(aQ)
79 4-Chlorotoluene	126	12.440	12.430	(0.935)	12799	0.50000		(aQ)
80 tert-Butylbenzene	119	12.825	12.825	(0.964)	34688	0.50000		(aQ)
81 1,2,4-Trimethylbenzene	105	12.886	12.886	(0.969)	41527	0.50000		(aQ)
82 sec-Butylbenzene	105	13.088	13.088	(0.984)	50028	0.50000		(a)
83 1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	23563	0.50000	0.50	(aQ)
84 p-Isopropyltoluene	119	13.281	13.280	(0.998)	43164	0.50000		(a)
85 1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	25146	0.50000	0.50	(aQ)
86 BenzylChloride	91	13.503	13.513	(1.015)	25320	0.50000		(a)
87 n-Butylbenzene	91	13.787	13.787	(1.037)	35167	0.50000		(aQ)
88 1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	23429	0.50000	0.50	(aQ)
89 1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	9374	2.50000	2.6	(aQ)
90 1,2,4-Trichlorobenzene	180	15.772	15.772	(1.186)	12401	0.50000		(aQ)
91 Hexachlorobutadiene	225	15.994	15.994	(1.203)	4120	0.50000		(aQ)
92 Naphthalene	128	16.075	16.075	(1.209)	29379	0.50000		(a)
93 1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	12435	0.50000		(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062453.D

Page 5

Date : 28-MAR-2006 15:14

Client ID: VSTD001

Instrument: MSU.i

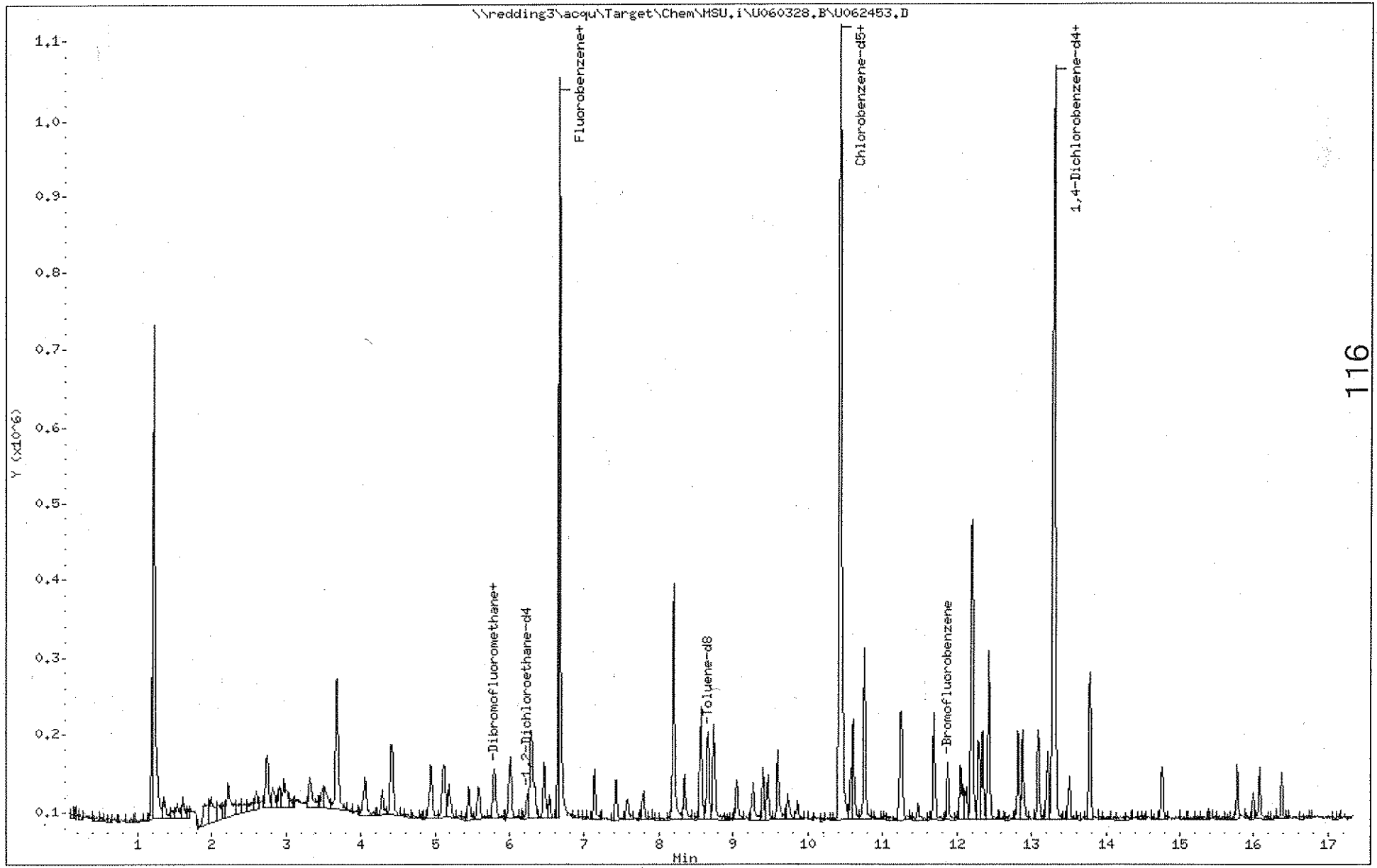
Sample Info: VSTD001;VSTD001

Operator: X

Purge Volume: 10.0

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062453.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 28-MAR-2006 15:14
Operator : X Inst ID: MSU.i
Smp Info : VSTD001;VSTD001
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\8260wCanoga.m
Meth Date : 30-Mar-2006 14:25 tchilder Quant Type: ISTD
Cal Date : 28-MAR-2006 15:14 Cal File: U062453.D
Als bottle: 15 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	6.668	6.668	(1.000)	962698	10.0000	
*	2 Chlorobenzene-d5	117	10.425	10.425	(1.000)	651171	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	283794	10.0000	
$	4 Dibromofluoromethane	113	5.807	5.807	(0.871)	19506	1.00000	1.0(Q)
$	5 1,2-Dichloroethane-d4	65	6.233	6.243	(0.935)	25391	1.00000	1.0
$	6 Toluene-d8	98	8.663	8.663	(0.831)	86653	1.00000	1.0(Q)
$	7 Bromofluorobenzene	174	11.883	11.883	(0.893)	22749	1.00000	1.0(Q)
	8 Dichlorodifluoromethane	85	1.362	1.362	(0.204)	16706	1.00000	1.0(Q)
	9 1,2-Dichlorotetrafluoroethane	85	1.362	1.362	(0.204)	16706	1.00000	1.0(Q)
	10 Chloromethane	50	1.534	1.534	(0.230)	29531	1.00000	1.0(Q)
	11 Vinyl chloride	62	1.615	1.615	(0.242)	21094	1.00000	0.88(aQ)
	12 Bromomethane	94	1.899	1.899	(0.285)	11451	1.00000	1.0(Q)
	13 Chloroethane	64	1.990	1.990	(0.298)	13188	1.00000	1.0(Q)
	14 Trichlorofluoromethane	101	2.223	2.223	(0.333)	25148	1.00000	1.0(Q)
	15 1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	14668	1.00000	1.0(Q)
	16 Acrolein	56	2.658	2.659	(0.399)	6913	10.0000	10.0(Q)
	17 1,1-Dichloroethene	96	2.749	2.749	(0.412)	13012	1.00000	0.92(aQ)
	18 Acetone	43	2.830	2.830	(0.424)	36636	5.00000	5.0
	19 Iodomethane	142	2.911	2.912	(0.437)	24929	1.00000	1.0(Q)
	20 Carbon disulfide	76	2.972	2.972	(0.446)	43601	1.00000	1.0
	21 Methylene chloride	84	3.316	3.326	(0.497)	17588	1.00000	1.0(aQ)
	22 tert-Butanol	59	3.539	3.529	(0.531)	24354	10.0000	10.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	23 Acrylonitrile	53	3.681	3.671	(0.552)	92894	10.0000	10.0(Q)
	24 n-Hexane	57	4.056	4.055	(0.608)	35460	1.00000	1.0(Q)
	25 trans-1,2-Dichloroethene	96	3.671	3.671	(0.551)	20868	1.00000	0.85(aQ)
	26 tert-Butylmethylether	73	3.691	3.691	(0.554)	68600	1.00000	1.0
	27 1,1-Dichloroethane	63	4.288	4.288	(0.643)	41709	1.00000	0.90(aQ)
	28 Isopropylether	45	4.420	4.420	(0.663)	90703	1.00000	1.0
	29 Vinyl acetate	43	4.410	4.410	(0.661)	94416	1.00000	1.0
	30 tert-Butylethylether	59	4.947	4.947	(0.742)	80916	1.00000	1.0(Q)
	31 2,2-Dichloropropane	77	5.109	5.109	(0.766)	35610	1.00000	0.84(aQ)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	25590	1.00000	0.80(aQ)
M	33 1,2-Dichloroethene (total)	96				46458	2.00000	1.6
	34 2-Butanone	43	5.190	5.190	(0.778)	61440	5.00000	5.0
	35 Bromochloromethane	128	5.453	5.463	(0.818)	11604	1.00000	0.92(aQ)
	36 Chloroform	83	5.585	5.585	(0.838)	38688	1.00000	0.87(aQ)
	37 1,1,1-Trichloroethane	97	5.787	5.797	(0.868)	32966	1.00000	0.84(aQ)
	38 Isobutyl alcohol	43	6.304	6.303	(0.945)	25126	25.0000	25.0(Q)
	39 1,1-Dichloropropene	75	6.020	6.020	(0.903)	28496	1.00000	0.84(aQ)
	40 Carbon tetrachloride	119	6.000	6.000	(0.900)	22299	1.00000	0.85(aQ)
	41 tert-Amylmethylether	73	6.466	6.466	(0.970)	71380	1.00000	1.0
	42 Benzene	78	6.293	6.293	(0.944)	90279	1.00000	0.86(a)
	43 1,2-Dichloroethane	62	6.344	6.334	(0.951)	28985	1.00000	0.94(aQ)
	44 n-Heptane	71	6.658	6.668	(0.998)	21324	1.00000	1.0(Q)
	45 Trichloroethene	95	7.134	7.134	(1.070)	22740	1.00000	0.90(aQ)
	46 1,2-Dichloropropane	63	7.428	7.417	(1.114)	24187	1.00000	0.92(aQ)
	47 1,4-Dioxane	88	7.630	7.620	(1.144)	4267	25.0000	25.0(Q)
	48 Dibromomethane	93	7.569	7.569	(1.135)	13518	1.00000	0.96(aQ)
	49 Bromodichloromethane	83	7.792	7.792	(1.169)	26946	1.00000	1.0(Q)
	50 2-Chloroethylvinyl ether	63	8.197	8.197	(1.229)	153582	10.0000	10.0(Q)
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	35912	1.00000	0.93(aQ)
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	116694	5.00000	5.0(Q)
	53 Toluene	92	8.744	8.744	(0.839)	61761	1.00000	0.93(aQ)
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	32655	1.00000	0.96(aQ)
	55 1,1,2-Trichloroethane	83	9.260	9.260	(0.888)	16527	1.00000	1.0(Q)
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	21808	1.00000	0.90(aQ)
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	34284	1.00000	0.99(aQ)
	58 2-Hexanone	43	9.595	9.595	(0.920)	80901	5.00000	5.0(Q)
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	18240	1.00000	1.0(Q)
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	20522	1.00000	1.0(Q)
	61 1-Chlorohexane	91	10.455	10.456	(1.003)	33396	1.00000	1.0(Q)
	62 Chlorobenzene	112	10.465	10.465	(1.004)	61921	1.00000	0.89(aQ)
	63 1,1,1,2-Tetrachloroethane	131	10.577	10.577	(1.015)	20314	1.00000	0.93(aQ)
	64 Ethylbenzene	91	10.607	10.607	(1.017)	103279	1.00000	0.93(aQ)
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	81322	2.00000	1.8(Q)
	66 o-Xylene	106	11.235	11.235	(1.078)	38970	1.00000	0.91(aQ)
M	67 Xylene (total)	106				120292	3.00000	2.7
	68 Styrene	104	11.255	11.255	(1.080)	63994	1.00000	0.91(aQ)
	69 Bromoform	173	11.478	11.478	(1.101)	10095	1.00000	1.0(Q)
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	101461	1.00000	1.0
	71 1,1,2,2-Tetrachloroethane	83	12.086	12.086	(0.909)	23497	1.00000	0.86(aQ)
	72 Bromobenzene	156	12.055	12.055	(0.906)	23733	1.00000	1.0(Q)
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	7358	1.00000	0.92(aQ)
	74 trans-1,4-Dichloro-2-butene	75	12.430	12.430	(0.935)	2623	1.00000	1.0(aQ)
	75 n-Propylbenzene	120	12.207	12.207	(0.918)	27173	1.00000	1.0(Q)
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	23172	1.00000	1.0(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77	4-Ethyltoluene	105	12.349	12.349	(0.928)	93020	1.00000	1.0(Q)
78	1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	76143	1.00000	1.0(Q)
79	4-Chlorotoluene	126	12.430	12.430	(0.935)	23460	1.00000	1.0(Q)
80	tert-Butylbenzene	119	12.815	12.825	(0.963)	63809	1.00000	1.0(Q)
81	1,2,4-Trimethylbenzene	105	12.886	12.886	(0.969)	75746	1.00000	1.0(Q)
82	sec-Butylbenzene	105	13.088	13.088	(0.984)	90440	1.00000	1.0
83	1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	43403	1.00000	0.91(aQ)
84	p-Isopropyltoluene	119	13.281	13.280	(0.998)	78808	1.00000	1.0
85	1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	42609	1.00000	0.84(aQ)
86	BenzylChloride	91	13.503	13.513	(1.015)	47537	1.00000	1.0
87	n-Butylbenzene	91	13.787	13.787	(1.037)	65579	1.00000	1.0(Q)
88	1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	41090	1.00000	0.86(aQ)
89	1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	18341	5.00000	5.0(Q)
90	1,2,4-Trichlorobenzene	180	15.772	15.772	(1.186)	23420	1.00000	1.0(Q)
91	Hexachlorobutadiene	225	15.994	15.994	(1.203)	7119	1.00000	1.0(Q)
92	Naphthalene	128	16.075	16.075	(1.209)	56218	1.00000	1.0
93	1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	20768	1.00000	1.0(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062454.D

Date : 28-MAR-2006 15:39

Client ID: VSTD005

Instrument: MSU.i

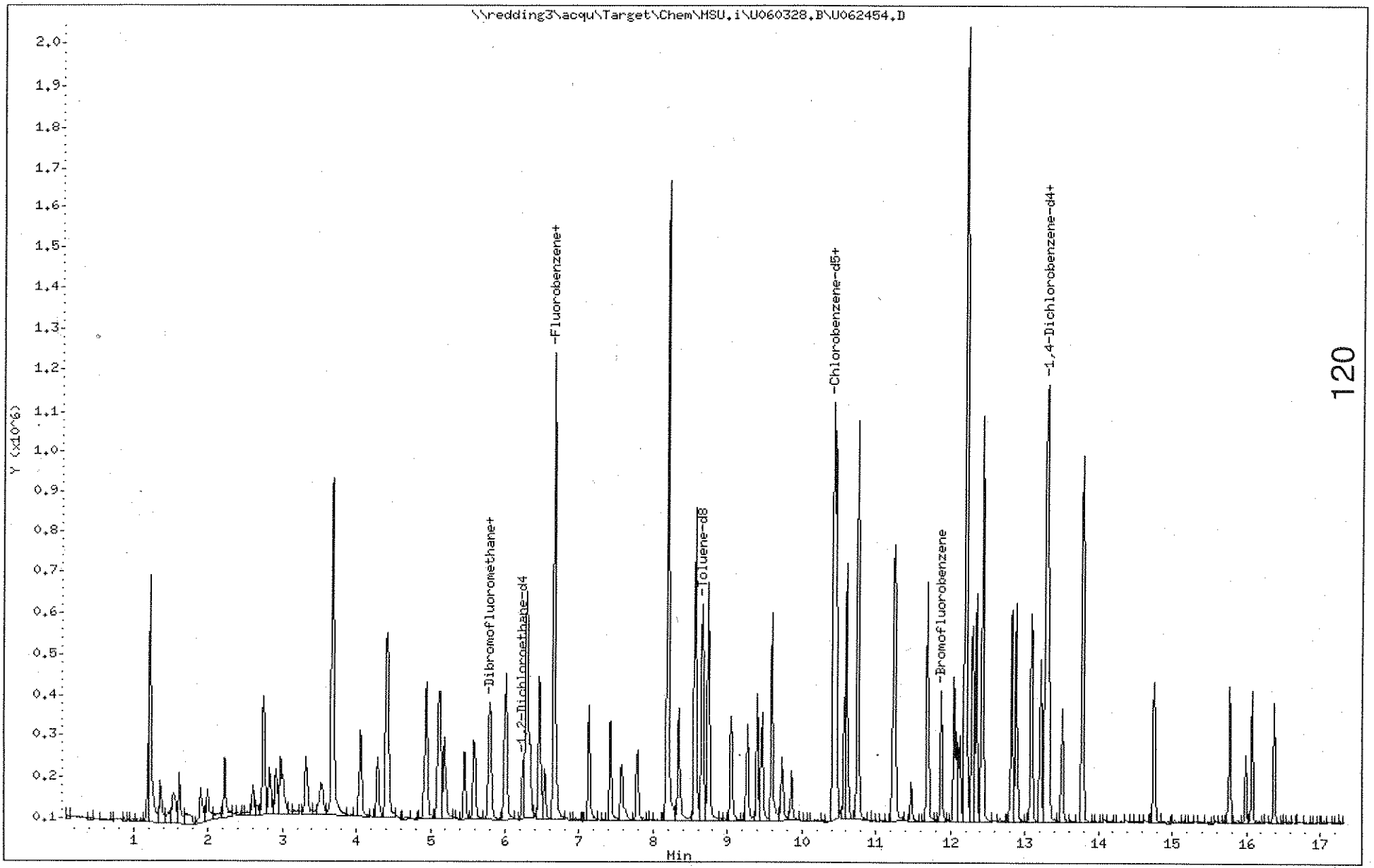
Sample Info: VSTD005;VSTD005

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062454.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 28-MAR-2006 15:39
Operator : X Inst ID: MSU.i
Smp Info : VSTD005;VSTD005
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\8260wCanoga.m
Meth Date : 30-Mar-2006 14:25 tchilder Quant Type: ISTD
Cal Date : 28-MAR-2006 15:39 Cal File: U062454.D
Als bottle: 16 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	6.668	6.668	(1.000)	933299	10.0000	
* 2	Chlorobenzene-d5	117	10.425	10.425	(1.000)	641699	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	284699	10.0000	
$ 4	Dibromofluoromethane	113	5.807	5.807	(0.871)	92363	5.00000	4.9(Q)
$ 5	1,2-Dichloroethane-d4	65	6.243	6.243	(0.936)	104803	5.00000	4.6
$ 6	Toluene-d8	98	8.663	8.663	(0.831)	381529	5.00000	4.7(Q)
$ 7	Bromofluorobenzene	174	11.883	11.883	(0.893)	104696	5.00000	4.8(Q)
8	Dichlorodifluoromethane	85	1.362	1.362	(0.204)	75561	5.00000	4.8(Q)
9	1,2-Dichlorotetrafluoroethane	85	1.362	1.362	(0.204)	75561	5.00000	4.8(Q)
10	Chloromethane	50	1.534	1.534	(0.230)	120466	5.00000	4.6(Q)
11	Vinyl chloride	62	1.615	1.615	(0.242)	98177	5.00000	4.6(Q)
12	Bromomethane	94	1.898	1.899	(0.285)	48208	5.00000	4.6(Q)
13	Chloroethane	64	1.990	1.990	(0.298)	57126	5.00000	4.7(Q)
14	Trichlorofluoromethane	101	2.233	2.223	(0.335)	112574	5.00000	4.8(Q)
15	1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	65414	5.00000	4.8(Q)
16	Acrolein	56	2.658	2.659	(0.399)	17916	50.0000	34.8(Q)
17	1,1-Dichloroethene	96	2.749	2.749	(0.412)	58965	5.00000	4.6(Q)
18	Acetone	43	2.830	2.830	(0.424)	135848	25.0000	21.7(Q)
19	Iodomethane	142	2.911	2.912	(0.437)	135336	5.00000	5.3(Q)
20	Carbon disulfide	76	2.972	2.972	(0.446)	201023	5.00000	4.9
21	Methylene chloride	84	3.326	3.326	(0.499)	73484	5.00000	4.6(Q)
22	tert-Butanol	59	3.529	3.529	(0.529)	117122	50.0000	49.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 Acrylonitrile	53	3.671	3.671	(0.550)	452197	50.0000	50.1(Q)
	24 n-Hexane	57	4.055	4.055	(0.608)	145068	5.00000	4.6(Q)
	25 trans-1,2-Dichloroethene	96	3.671	3.671	(0.550)	106793	5.00000	4.7(Q)
	26 tert-Butylmethylether	73	3.691	3.691	(0.554)	341693	5.00000	5.1
	27 1,1-Dichloroethane	63	4.288	4.288	(0.643)	191305	5.00000	4.6(Q)
	28 Isopropylether	45	4.420	4.420	(0.663)	439089	5.00000	5.0
	29 Vinyl acetate	43	4.410	4.410	(0.661)	467077	5.00000	5.0
	30 tert-Butylethylether	59	4.946	4.947	(0.742)	409015	5.00000	5.1(Q)
	31 2,2-Dichloropropane	77	5.108	5.109	(0.766)	156122	5.00000	4.3(Q)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	118193	5.00000	4.3(Q)
M	33 1,2-Dichloroethene (total)	96				224986	10.0000	9.1
	34 2-Butanone	43	5.189	5.190	(0.778)	298428	25.0000	25.0
	35 Bromochloromethane	128	5.463	5.463	(0.819)	55677	5.00000	4.8(Q)
	36 Chloroform	83	5.584	5.585	(0.838)	177290	5.00000	4.5(Q)
	37 1,1,1-Trichloroethane	97	5.797	5.797	(0.869)	150096	5.00000	4.4(Q)
	38 Isobutyl alcohol	43	6.303	6.303	(0.945)	123620	125.000	126(Q)
	39 1,1-Dichloropropene	75	6.020	6.020	(0.903)	139533	5.00000	4.6(Q)
	40 Carbon tetrachloride	119	6.010	6.000	(0.901)	113594	5.00000	4.7(Q)
	41 tert-Amylmethylether	73	6.465	6.466	(0.970)	340967	5.00000	5.0
	42 Benzene	78	6.293	6.293	(0.944)	437117	5.00000	4.6
	43 1,2-Dichloroethane	62	6.344	6.334	(0.951)	138396	5.00000	4.8(Q)
	44 n-Heptane	71	6.668	6.668	(1.000)	74553	5.00000	4.2(Q)
	45 Trichloroethene	95	7.134	7.134	(1.070)	107238	5.00000	4.6(Q)
	46 1,2-Dichloropropane	63	7.427	7.417	(1.114)	114160	5.00000	4.7(Q)
	47 1,4-Dioxane	88	7.630	7.620	(1.144)	24485	125.000	136(Q)
	48 Dibromomethane	93	7.569	7.569	(1.135)	63864	5.00000	4.8(Q)
	49 Bromodichloromethane	83	7.792	7.792	(1.169)	130676	5.00000	5.0(Q)
	50 2-Chloroethylvinyl ether	63	8.197	8.197	(1.229)	776788	50.0000	51.1(Q)
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	178200	5.00000	4.9(Q)
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	594336	25.0000	25.6(Q)
	53 Toluene	92	8.744	8.744	(0.839)	282800	5.00000	4.6(Q)
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	156748	5.00000	4.8(Q)
	55 1,1,2-Trichloroethane	83	9.270	9.260	(0.889)	76725	5.00000	4.9(Q)
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	103756	5.00000	4.7(Q)
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	169870	5.00000	5.0(Q)
	58 2-Hexanone	43	9.594	9.595	(0.920)	406030	25.0000	25.2(Q)
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	93287	5.00000	5.1(Q)
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	95035	5.00000	4.8(Q)
	61 1-Chlorohexane	91	10.455	10.456	(1.003)	144558	5.00000	4.7(Q)
	62 Chlorobenzene	112	10.465	10.465	(1.004)	286302	5.00000	4.6(Q)
	63 1,1,1,2-Tetrachloroethane	131	10.577	10.577	(1.015)	101074	5.00000	4.8(Q)
	64 Ethylbenzene	91	10.607	10.607	(1.017)	475624	5.00000	4.6(Q)
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	375662	10.0000	9.2(Q)
	66 o-Xylene	106	11.235	11.235	(1.078)	186187	5.00000	4.7(Q)
M	67 Xylene (total)	106				561849	15.0000	13.9
	68 Styrene	104	11.255	11.255	(1.080)	311079	5.00000	4.7(Q)
	69 Bromoform	173	11.478	11.478	(1.101)	54464	5.00000	5.2(Q)
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	452946	5.00000	4.8
	71 1,1,2,2-Tetrachloroethane	83	12.085	12.086	(0.909)	114362	5.00000	4.6(Q)
	72 Bromobenzene	156	12.045	12.055	(0.906)	112754	5.00000	4.9(Q)
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	35020	5.00000	4.6(Q)
	74 trans-1,4-Dichloro-2-butene	75	12.430	12.430	(0.935)	11276	5.00000	4.6(aQ)
	75 n-Propylbenzene	120	12.207	12.207	(0.918)	124116	5.00000	4.8(Q)
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	107163	5.00000	4.8(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	12.349	12.349	(0.928)	432955	5.00000	4.8(Q)
78 1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	352453	5.00000	4.8(Q)
79 4-Chlorotoluene	126	12.430	12.430	(0.935)	108025	5.00000	4.8(Q)
80 tert-Butylbenzene	119	12.825	12.825	(0.964)	305455	5.00000	4.9(Q)
81 1,2,4-Trimethylbenzene	105	12.885	12.886	(0.969)	349137	5.00000	4.8(Q)
82 sec-Butylbenzene	105	13.088	13.088	(0.984)	412731	5.00000	4.8
83 1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	201419	5.00000	4.6(Q)
84 p-Isopropyltoluene	119	13.280	13.280	(0.998)	367149	5.00000	4.8
85 1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	210345	5.00000	4.5(Q)
86 BenzylChloride	91	13.513	13.513	(1.016)	237084	5.00000	5.0
87 n-Butylbenzene	91	13.787	13.787	(1.037)	300566	5.00000	4.8(Q)
88 1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	195210	5.00000	4.5(Q)
89 1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	93275	25.0000	25.2(Q)
90 1,2,4-Trichlorobenzene	180	15.771	15.772	(1.186)	112717	5.00000	4.9(Q)
91 Hexachlorobutadiene	225	15.994	15.994	(1.203)	34748	5.00000	4.9(Q)
92 Naphthalene	128	16.075	16.075	(1.209)	273598	5.00000	4.9
93 1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	103047	5.00000	5.0(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062455.D

Date : 28-MAR-2006 16:05

Client ID: VSTD010

Instrument: MSU.i

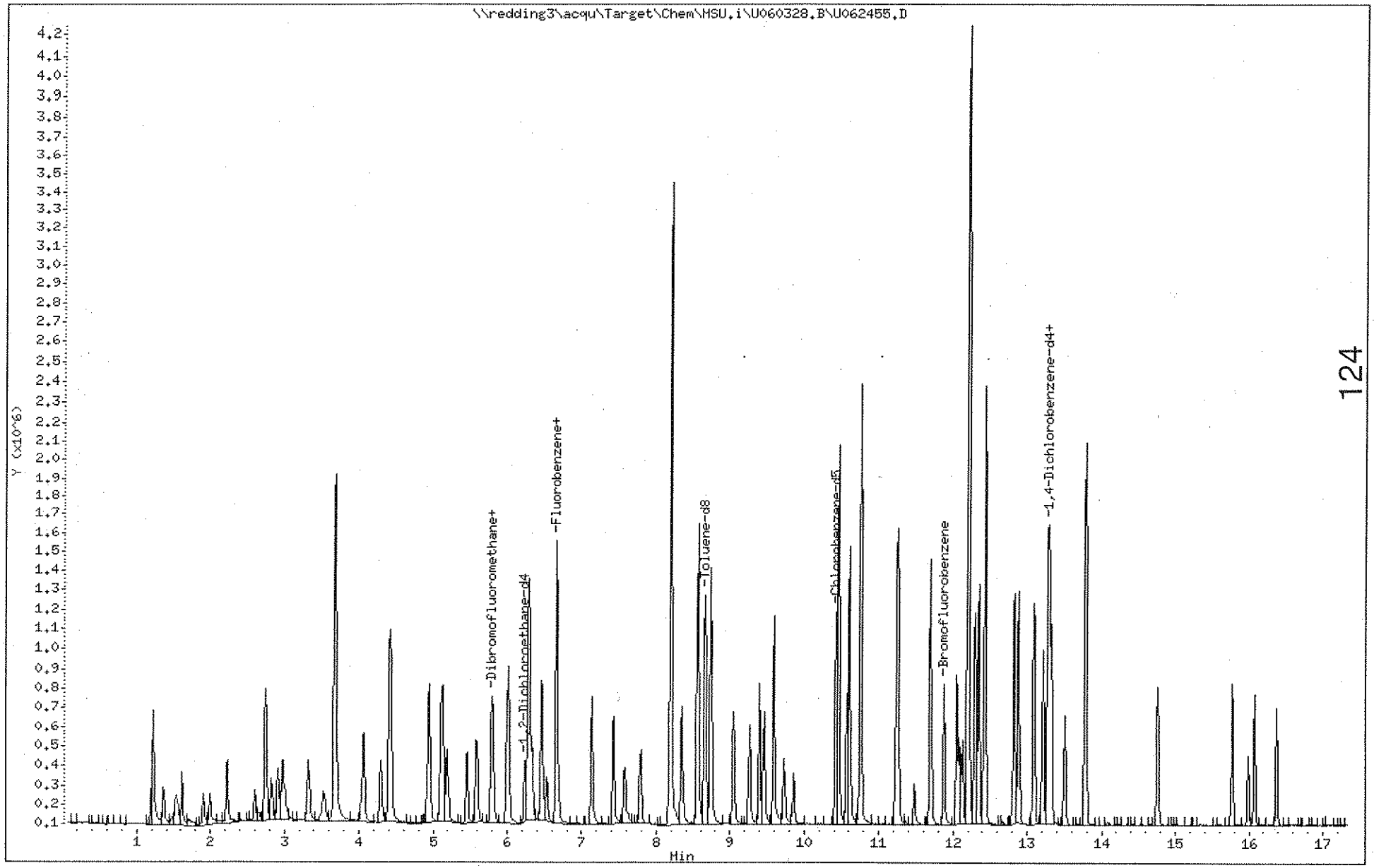
Sample Info: VSTD010;VSTD010

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062455.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 28-MAR-2006 16:05
Operator : X Inst ID: MSU.i
Smp Info : VSTD010;VSTD010
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\8260wCanoga.m
Meth Date : 30-Mar-2006 14:25 tchilder Quant Type: ISTD
Cal Date : 28-MAR-2006 16:05 Cal File: U062455.D
Als bottle: 17 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	6.668	6.668	(1.000)	967367	10.0000	
* 2	Chlorobenzene-d5	117	10.425	10.425	(1.000)	664455	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	291593	10.0000	
$ 4	Dibromofluoromethane	113	5.807	5.807	(0.871)	219249	10.0000	10.8
$ 5	1,2-Dichloroethane-d4	65	6.243	6.243	(0.936)	236664	10.0000	10.0
$ 6	Toluene-d8	98	8.663	8.663	(0.831)	845993	10.0000	10.1
$ 7	Bromofluorobenzene	174	11.883	11.883	(0.893)	230996	10.0000	10.2
8	Dichlorodifluoromethane	85	1.362	1.362	(0.204)	175220	10.0000	10.5
9	1,2-Dichlorotetrafluoroethane	85	1.362	1.362	(0.204)	175220	10.0000	10.5
10	Chloromethane	50	1.534	1.534	(0.230)	278735	10.0000	10.1
11	Vinyl chloride	62	1.615	1.615	(0.242)	227881	10.0000	10.2
12	Bromomethane	94	1.909	1.899	(0.286)	110623	10.0000	10.2
13	Chloroethane	64	2.000	1.990	(0.300)	134482	10.0000	10.5
14	Trichlorofluoromethane	101	2.233	2.223	(0.335)	263219	10.0000	10.5
15	1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	161666	10.0000	10.9
16	Acrolein	56	2.658	2.659	(0.399)	40817	100.000	83.1
17	1,1-Dichloroethene	96	2.749	2.749	(0.412)	142402	10.0000	10.5
18	Acetone	43	2.830	2.830	(0.424)	268859	50.0000	43.9
19	Iodomethane	142	2.911	2.912	(0.437)	353430	10.0000	12.0
20	Carbon disulfide	76	2.982	2.972	(0.447)	473658	10.0000	10.7
21	Methylene chloride	84	3.326	3.326	(0.499)	164146	10.0000	10
22	tert-Butanol	59	3.529	3.529	(0.529)	227753	100.000	95.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	Acrylonitrile	53	3.681	3.671	(0.552)	939579	100.000	100
24	n-Hexane	57	4.066	4.055	(0.610)	325225	10.0000	9.9
25	trans-1,2-Dichloroethene	96	3.671	3.671	(0.550)	253866	10.0000	10.5
26	tert-Butylmethylether	73	3.691	3.691	(0.554)	746484	10.0000	10.4
27	1,1-Dichloroethane	63	4.298	4.288	(0.645)	444025	10.0000	10.2
28	Isopropylether	45	4.420	4.420	(0.663)	987054	10.0000	10.5
29	Vinyl acetate	43	4.410	4.410	(0.661)	979204	10.0000	10.1
30	tert-Butylethylether	59	4.946	4.947	(0.742)	875790	10.0000	10.4
31	2,2-Dichloropropane	77	5.109	5.109	(0.766)	347001	10.0000	9.5
32	cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	264278	10.0000	9.6
M 33	1,2-Dichloroethene (total)	96				518144	20.0000	20.1
34	2-Butanone	43	5.190	5.190	(0.778)	573908	50.0000	47.6
35	Bromochloromethane	128	5.463	5.463	(0.819)	120568	10.0000	10
36	Chloroform	83	5.595	5.585	(0.839)	397009	10.0000	9.8
37	1,1,1-Trichloroethane	97	5.797	5.797	(0.869)	344427	10.0000	9.9
38	Isobutyl alcohol	43	6.303	6.303	(0.945)	242926	250.000	242
39	1,1-Dichloropropene	75	6.020	6.020	(0.903)	318064	10.0000	10.1
40	Carbon tetrachloride	119	6.010	6.000	(0.901)	266085	10.0000	10.4
41	tert-Amylmethylether	73	6.465	6.466	(0.970)	727549	10.0000	10.1
42	Benzene	78	6.293	6.293	(0.944)	988258	10.0000	10.0
43	1,2-Dichloroethane	62	6.334	6.334	(0.950)	304208	10.0000	10.1
44	n-Heptane	71	6.668	6.668	(1.000)	154918	10.0000	8.9
45	Trichloroethene	95	7.134	7.134	(1.070)	242741	10.0000	10.1
46	1,2-Dichloropropane	63	7.427	7.417	(1.114)	262351	10.0000	10.3
47	1,4-Dioxane	88	7.620	7.620	(1.143)	49916	250.000	261
48	Dibromomethane	93	7.569	7.569	(1.135)	135318	10.0000	9.9
49	Bromodichloromethane	83	7.792	7.792	(1.169)	289927	10.0000	10.4
50	2-Chloroethylvinyl ether	63	8.197	8.197	(1.229)	1616619	100.000	102
51	cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	393960	10.0000	10.2
52	4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	1191543	50.0000	49.7
53	Toluene	92	8.744	8.744	(0.839)	643295	10.0000	10.1
54	trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	350376	10.0000	10.3
55	1,1,2-Trichloroethane	83	9.270	9.260	(0.889)	164268	10.0000	10.0
56	Tetrachloroethene	166	9.402	9.402	(0.902)	243761	10.0000	10.4
57	1,3-Dichloropropane	76	9.463	9.463	(0.908)	365188	10.0000	10.2
58	2-Hexanone	43	9.594	9.595	(0.920)	815303	50.0000	49.3
59	Dibromochloromethane	129	9.736	9.736	(0.934)	205865	10.0000	10.6
60	1,2-Dibromoethane	107	9.858	9.858	(0.946)	209610	10.0000	10.2
61	1-Chlorohexane	91	10.455	10.456	(1.003)	328472	10.0000	10.2
62	Chlorobenzene	112	10.465	10.465	(1.004)	666844	10.0000	10.2
63	1,1,1,2-Tetrachloroethane	131	10.577	10.577	(1.015)	232582	10.0000	10.5
64	Ethylbenzene	91	10.607	10.607	(1.017)	1091329	10.0000	10.2
65	m-,p-Xylene	106	10.759	10.759	(1.032)	856672	20.0000	20.2
66	o-Xylene	106	11.235	11.235	(1.078)	416530	10.0000	10.1
M 67	Xylene (total)	106				1273202	30.0000	30.3
68	Styrene	104	11.255	11.255	(1.080)	689482	10.0000	10.1
69	Bromoform	173	11.478	11.478	(1.101)	111799	10.0000	10.2
70	Isopropylbenzene	105	11.691	11.691	(1.121)	1048691	10.0000	10.4
71	1,1,2,2-Tetrachloroethane	83	12.085	12.086	(0.909)	238482	10.0000	9.5
72	Bromobenzene	156	12.055	12.055	(0.906)	254286	10.0000	10.5
73	1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	74650	10.0000	9.8
74	trans-1,4-Dichloro-2-butene	75	12.430	12.430	(0.935)	26211	10.0000	10.3(a)
75	n-Propylbenzene	120	12.207	12.207	(0.918)	280594	10.0000	10.3
76	2-Chlorotoluene	126	12.298	12.298	(0.925)	243385	10.0000	10.4

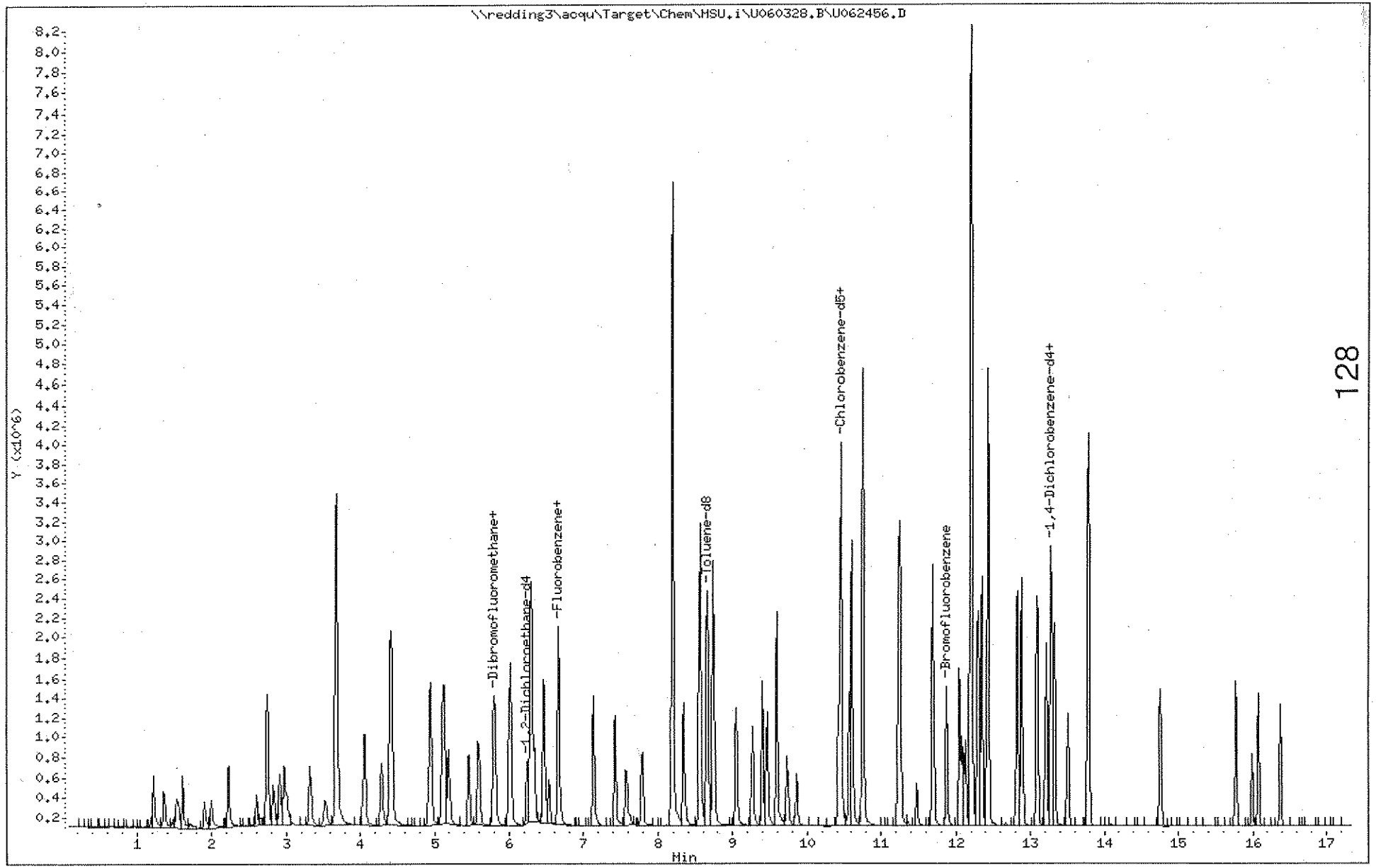
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	12.349	12.349	(0.928)	989319	10.0000	10.5
78 1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	813944	10.0000	10.5
79 4-Chlorotoluene	126	12.430	12.430	(0.935)	247185	10.0000	10.4
80 tert-Butylbenzene	119	12.825	12.825	(0.964)	696304	10.0000	10.6
81 1,2,4-Trimethylbenzene	105	12.885	12.886	(0.969)	795222	10.0000	10.4
82 sec-Butylbenzene	105	13.088	13.088	(0.984)	948252	10.0000	10.4
83 1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	461917	10.0000	10.1
84 p-Isopropyltoluene	119	13.280	13.280	(0.998)	838572	10.0000	10.5
85 1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	471588	10.0000	9.9
86 BenzylChloride	91	13.503	13.513	(1.015)	487356	10.0000	10.0
87 n-Butylbenzene	91	13.787	13.787	(1.037)	683351	10.0000	10.4
88 1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	430716	10.0000	9.8
89 1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	190792	50.0000	50.2
90 1,2,4-Trichlorobenzene	180	15.771	15.772	(1.186)	250071	10.0000	10.4
91 Hexachlorobutadiene	225	15.994	15.994	(1.203)	78794	10.0000	10.6
92 Naphthalene	128	16.075	16.075	(1.209)	588487	10.0000	10.2
93 1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	219567	10.0000	10.2

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062456.D
Date : 28-MAR-2006 16:30
Client ID: VSTD020
Sample Info: VSTD020;VSTD020
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: X
Column diameter: 0.32



120

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062456.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 28-MAR-2006 16:30
Operator : X Inst ID: MSU.i
Smp Info : VSTD020;VSTD020
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\8260wCanoga.m
Meth Date : 30-Mar-2006 14:25 tchilder Quant Type: ISTD
Cal Date : 28-MAR-2006 16:30 Cal File: U062456.D
Als bottle: 18 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	6.668	6.668	(1.000)	1000083	10.0000	
*	2 Chlorobenzene-d5	117	10.425	10.425	(1.000)	686536	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	301474	10.0000	
$	4 Dibromofluoromethane	113	5.807	5.807	(0.871)	438344	20.0000	20.7
$	5 1,2-Dichloroethane-d4	65	6.243	6.243	(0.936)	471448	20.0000	19.5
$	6 Toluene-d8	98	8.663	8.663	(0.831)	1685862	20.0000	19.6
$	7 Bromofluorobenzene	174	11.883	11.883	(0.893)	467727	20.0000	20.0
	8 Dichlorodifluoromethane	85	1.362	1.362	(0.204)	343916	20.0000	20.0
	9 1,2-Dichlorotetrafluoroethane	85	1.362	1.362	(0.204)	343916	20.0000	20.0(Q)
	10 Chloromethane	50	1.544	1.534	(0.232)	525649	20.0000	18.8
	11 Vinyl chloride	62	1.615	1.615	(0.242)	453042	20.0000	19.6
	12 Bromomethane	94	1.899	1.899	(0.285)	205885	20.0000	18.7
	13 Chloroethane	64	1.990	1.990	(0.298)	251518	20.0000	19.2
	14 Trichlorofluoromethane	101	2.233	2.223	(0.335)	518846	20.0000	20.1
	15 1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	314845	20.0000	20.4
	16 Acrolein	56	2.658	2.659	(0.399)	74558	200.000	157(Q)
	17 1,1-Dichloroethene	96	2.749	2.749	(0.412)	280365	20.0000	20.0
	18 Acetone	43	2.830	2.830	(0.424)	497069	100.000	83.0
	19 Iodomethane	142	2.911	2.912	(0.437)	697822	20.0000	22.1
	20 Carbon disulfide	76	2.972	2.972	(0.446)	918426	20.0000	20.0
	21 Methylene chloride	84	3.326	3.326	(0.499)	315245	20.0000	18.9
	22 tert-Butanol	59	3.529	3.529	(0.529)	422937	200.000	178

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	23 Acrylonitrile	53	3.681	3.671	(0.552)	1773130	200.000	187
	24 n-Hexane	57	4.055	4.055	(0.608)	649454	20.0000	19.4
	25 trans-1,2-Dichloroethene	96	3.671	3.671	(0.551)	472620	20.0000	19.2
	26 tert-Butylmethylether	73	3.691	3.691	(0.554)	1407097	20.0000	19.3
	27 1,1-Dichloroethane	63	4.288	4.288	(0.643)	883075	20.0000	19.7
	28 Isopropylether	45	4.420	4.420	(0.663)	1962318	20.0000	20.2
	29 Vinyl acetate	43	4.410	4.410	(0.661)	1946076	20.0000	19.6
	30 tert-Butylethylether	59	4.947	4.947	(0.742)	1752432	20.0000	20.0
	31 2,2-Dichloropropane	77	5.109	5.109	(0.766)	686110	20.0000	18.6(Q)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	531042	20.0000	18.9
M	33 1,2-Dichloroethene (total)	96				1003662	40.0000	38.2
	34 2-Butanone	43	5.190	5.190	(0.778)	1140473	100.000	93.4
	35 Bromochloromethane	128	5.463	5.463	(0.819)	241673	20.0000	19.5
	36 Chloroform	83	5.585	5.585	(0.838)	794919	20.0000	19.3
	37 1,1,1-Trichloroethane	97	5.797	5.797	(0.869)	685690	20.0000	19.2
	38 Isobutyl alcohol	43	6.303	6.303	(0.945)	480673	500.000	472(Q)
	39 1,1-Dichloropropene	75	6.020	6.020	(0.903)	642250	20.0000	19.7
	40 Carbon tetrachloride	119	6.010	6.000	(0.901)	535354	20.0000	20.2
	41 tert-Amylmethylether	73	6.466	6.466	(0.970)	1435516	20.0000	19.5
	42 Benzene	78	6.293	6.293	(0.944)	1970738	20.0000	19.5
	43 1,2-Dichloroethane	62	6.344	6.334	(0.951)	600424	20.0000	19.5
	44 n-Heptane	71	6.668	6.668	(1.000)	301753	20.0000	17.4
	45 Trichloroethene	95	7.134	7.134	(1.070)	486751	20.0000	19.7
	46 1,2-Dichloropropane	63	7.427	7.417	(1.114)	527211	20.0000	20.0
	47 1,4-Dioxane	88	7.620	7.620	(1.143)	93160	500.000	478(Q)
	48 Dibromomethane	93	7.569	7.569	(1.135)	268305	20.0000	19.3
	49 Bromodichloromethane	83	7.792	7.792	(1.169)	578010	20.0000	20.1
	50 2-Chloroethylvinyl ether	63	8.197	8.197	(1.229)	3139719	200.000	193
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	785377	20.0000	19.8
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	2360050	100.000	96.4
	53 Toluene	92	8.744	8.744	(0.839)	1276362	20.0000	19.6
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	707998	20.0000	20.1
	55 1,1,2-Trichloroethane	83	9.260	9.260	(0.888)	321647	20.0000	19.2
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	482333	20.0000	19.9
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	729628	20.0000	19.9
	58 2-Hexanone	43	9.595	9.595	(0.920)	1616989	100.000	95.9
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	415850	20.0000	20.5
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	408083	20.0000	19.4
	61 1-Chlorohexane	91	10.455	10.456	(1.003)	649846	20.0000	19.6
	62 Chlorobenzene	112	10.465	10.465	(1.004)	1322416	20.0000	19.6(Q)
	63 1,1,1,2-Tetrachloroethane	131	10.577	10.577	(1.015)	470096	20.0000	20.4
	64 Ethylbenzene	91	10.607	10.607	(1.017)	2202109	20.0000	19.9
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	1725849	40.0000	39.5
	66 o-Xylene	106	11.235	11.235	(1.078)	838783	20.0000	19.7
M	67 Xylene (total)	106				2564632	60.0000	59.3
	68 Styrene	104	11.255	11.255	(1.080)	1389033	20.0000	19.8
	69 Bromoform	173	11.478	11.478	(1.101)	231228	20.0000	20.4
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	2104254	20.0000	20.2
	71 1,1,2,2-Tetrachloroethane	83	12.086	12.086	(0.909)	470674	20.0000	18.6
	72 Bromobenzene	156	12.055	12.055	(0.906)	512366	20.0000	20.3
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	150166	20.0000	19.3(Q)
	74 trans-1,4-Dichloro-2-butene	75	12.430	12.430	(0.935)	51944	20.0000	19.8(a)
	75 n-Propylbenzene	120	12.207	12.207	(0.918)	550440	20.0000	19.7
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	486678	20.0000	20.1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77 4-Ethyltoluene	105	12.349	12.349	(0.928)	1996341	20.0000	20.3
78 1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	1618093	20.0000	20.2
79 4-Chlorotoluene	126	12.430	12.430	(0.935)	491900	20.0000	20.1
80 tert-Butylbenzene	119	12.825	12.825	(0.964)	1396926	20.0000	20.4
81 1,2,4-Trimethylbenzene	105	12.886	12.886	(0.969)	1595600	20.0000	20.2
82 sec-Butylbenzene	105	13.088	13.088	(0.984)	1909837	20.0000	20.3
83 1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	918898	20.0000	19.6
84 p-Isopropyltoluene	119	13.280	13.280	(0.998)	1689532	20.0000	20.3
85 1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	936901	20.0000	19.3
86 BenzylChloride	91	13.503	13.513	(1.015)	973043	20.0000	19.5
87 n-Butylbenzene	91	13.787	13.787	(1.037)	1370675	20.0000	20.1
88 1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	859439	20.0000	19.2
89 1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	371619	100.000	95.9
90 1,2,4-Trichlorobenzene	180	15.772	15.772	(1.186)	499161	20.0000	20.0
91 Hexachlorobutadiene	225	15.994	15.994	(1.203)	157265	20.0000	20.3
92 Naphthalene	128	16.075	16.075	(1.209)	1181481	20.0000	19.9
93 1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	445309	20.0000	20.0

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062457.D

Date : 28-MAR-2006 16:56

Client ID: VSTD040

Instrument: MSU.i

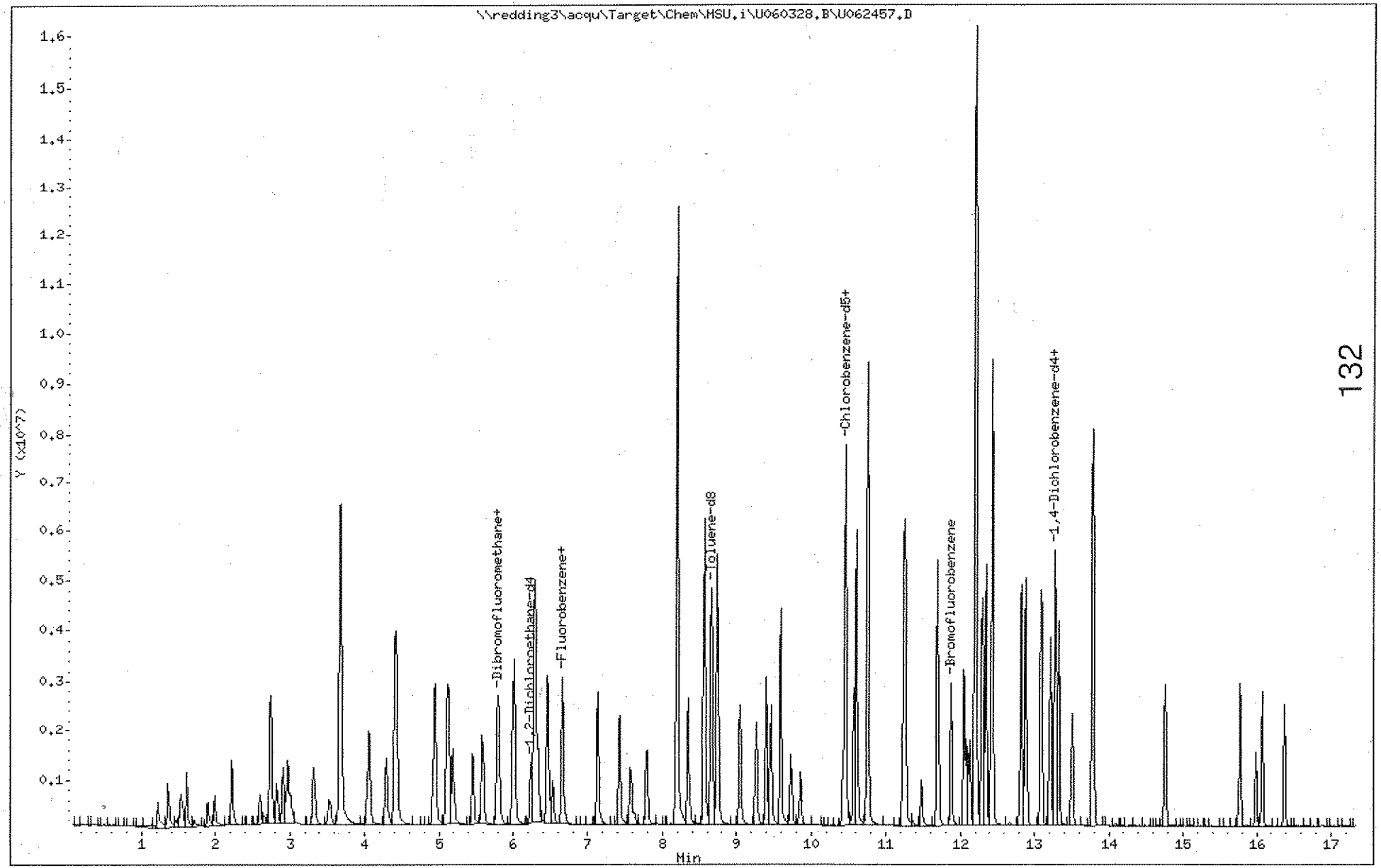
Sample Info: VSTD040;VSTD040

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062457.D
Lab Smp Id: VSTD040 Client Smp ID: VSTD040
Inj Date : 28-MAR-2006 16:56
Operator : X Inst ID: MSU.i
Smp Info : VSTD040;VSTD040
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\8260wCanoga.m
Meth Date : 30-Mar-2006 14:25 tchilder Quant Type: ISTD
Cal Date : 28-MAR-2006 16:56 Cal File: U062457.D
Als bottle: 19 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	6.668	6.668	(1.000)	984412	10.0000	
*	2 Chlorobenzene-d5	117	10.425	10.425	(1.000)	691071	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	317654	10.0000	
$	4 Dibromofluoromethane	113	5.807	5.807	(0.871)	868496	40.0000	41.3(A)
$	5 1,2-Dichloroethane-d4	65	6.243	6.243	(0.936)	945359	40.0000	39.7
$	6 Toluene-d8	98	8.663	8.663	(0.831)	3407396	40.0000	39.4
$	7 Bromofluorobenzene	174	11.883	11.883	(0.893)	923409	40.0000	37.9
	8 Dichlorodifluoromethane	85	1.362	1.362	(0.204)	711054	40.0000	41.6(A)
	9 1,2-Dichlorotetrafluoroethane	85	1.362	1.362	(0.204)	711054	40.0000	41.6(AQ)
	10 Chloromethane	50	1.534	1.534	(0.230)	1080234	40.0000	39.5
	11 Vinyl chloride	62	1.615	1.615	(0.242)	939740	40.0000	41.1(A)
	12 Bromomethane	94	1.898	1.899	(0.285)	371944	40.0000	35.4
	13 Chloroethane	64	1.990	1.990	(0.298)	514310	40.0000	39.9
	14 Trichlorofluoromethane	101	2.223	2.223	(0.333)	1066611	40.0000	41.5(A)
	15 1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	646626	40.0000	42.0(A)
	16 Acrolein	56	2.658	2.659	(0.399)	152672	400.000	339(Q)
	17 1,1-Dichloroethene	96	2.749	2.749	(0.412)	571624	40.0000	41.1(A)
	18 Acetone	43	2.830	2.830	(0.424)	985430	200.000	173
	19 Iodomethane	142	2.911	2.912	(0.437)	1508575	40.0000	46.5(A)
	20 Carbon disulfide	76	2.972	2.972	(0.446)	1913066	40.0000	41.9(A)
	21 Methylene chloride	84	3.326	3.326	(0.499)	642391	40.0000	39.3
	22 tert-Butanol	59	3.529	3.529	(0.529)	818479	400.000	359

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 Acrylonitrile	53	3.671	3.671	(0.550)	3467459	400.000	377
	24 n-Hexane	57	4.055	4.055	(0.608)	1333419	40.0000	40.3(A)
	25 trans-1,2-Dichloroethene	96	3.671	3.671	(0.550)	916243	40.0000	38.3
	26 tert-Butylmethylether	73	3.691	3.691	(0.554)	2808634	40.0000	39.3
	27 1,1-Dichloroethane	63	4.288	4.288	(0.643)	1813962	40.0000	40.9(A)
	28 Isopropylether	45	4.420	4.420	(0.663)	3974384	40.0000	41.2(A)
	29 Vinyl acetate	43	4.410	4.410	(0.661)	3919445	40.0000	40.1(A)
	30 tert-Butylethylether	59	4.946	4.947	(0.742)	3549832	40.0000	41.0(A)
	31 2,2-Dichloropropane	77	5.109	5.109	(0.766)	1367263	40.0000	38.1(Q)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	1085450	40.0000	39.4
M	33 1,2-Dichloroethene (total)	96				2001693	80.0000	77.7
	34 2-Butanone	43	5.190	5.190	(0.778)	2255097	200.000	190
	35 Bromochloromethane	128	5.463	5.463	(0.819)	484643	40.0000	39.8
	36 Chloroform	83	5.584	5.585	(0.838)	1625981	40.0000	40.1(A)
	37 1,1,1-Trichloroethane	97	5.797	5.797	(0.869)	1408278	40.0000	40.1(A)
	38 Isobutyl alcohol	43	6.303	6.303	(0.945)	919336	1000.00	933(Q)
	39 1,1-Dichloropropene	75	6.020	6.020	(0.903)	1312090	40.0000	40.8(A)
	40 Carbon tetrachloride	119	6.000	6.000	(0.900)	1104259	40.0000	41.9(A)
	41 tert-Amylmethylether	73	6.465	6.466	(0.970)	2903515	40.0000	40.1(A)
	42 Benzene	78	6.293	6.293	(0.944)	4027679	40.0000	40.4(A)
	43 1,2-Dichloroethane	62	6.334	6.334	(0.950)	1233518	40.0000	40.6(A)
	44 n-Heptane	71	6.668	6.668	(1.000)	612864	40.0000	36.7
	45 Trichloroethene	95	7.134	7.134	(1.070)	993710	40.0000	40.7(A)
	46 1,2-Dichloropropane	63	7.427	7.417	(1.114)	1056699	40.0000	40.6(A)
	47 1,4-Dioxane	88	7.620	7.620	(1.143)	163431	1000.00	964(Q)
	48 Dibromomethane	93	7.569	7.569	(1.135)	536987	40.0000	39.3
	49 Bromodichloromethane	83	7.792	7.792	(1.169)	1186610	40.0000	41.6(A)
	50 2-Chloroethylvinyl ether	63	8.197	8.197	(1.229)	5969541	400.000	378
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	1597761	40.0000	40.8(A)
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	4679810	200.000	195
	53 Toluene	92	8.744	8.744	(0.839)	2585155	40.0000	39.5
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	1433734	40.0000	40.3(A)
	55 1,1,2-Trichloroethane	83	9.260	9.260	(0.888)	655657	40.0000	39.2
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	967602	40.0000	39.7
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	1481353	40.0000	40.0(A)
	58 2-Hexanone	43	9.594	9.595	(0.920)	3189012	200.000	190
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	852621	40.0000	41.3(A)
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	833188	40.0000	39.5
	61 1-Chlorohexane	91	10.455	10.456	(1.003)	1332305	40.0000	39.9
	62 Chlorobenzene	112	10.465	10.465	(1.004)	2671012	40.0000	39.5(Q)
	63 1,1,1,2-Tetrachloroethane	131	10.577	10.577	(1.015)	944826	40.0000	40.6(A)
	64 Ethylbenzene	91	10.607	10.607	(1.017)	4483485	40.0000	40.2(A)
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	3455615	80.0000	78.9
	66 o-Xylene	106	11.235	11.235	(1.078)	1682606	40.0000	39.4
M	67 Xylene (total)	106				5138221	120.000	118
	68 Styrene	104	11.255	11.255	(1.080)	2835336	40.0000	40.1(A)
	69 Bromoform	173	11.478	11.478	(1.101)	486556	40.0000	42.0(A)
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	4292003	40.0000	40.7(A)
	71 1,1,2,2-Tetrachloroethane	83	12.085	12.086	(0.909)	937574	40.0000	36.0
	72 Bromobenzene	156	12.055	12.055	(0.906)	1037587	40.0000	39.2
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	293329	40.0000	36.5(Q)
	74 trans-1,4-Dichloro-2-butene	75	12.430	12.430	(0.935)	105787	40.0000	38.6
	75 n-Propylbenzene	120	12.207	12.207	(0.918)	1083231	40.0000	37.4
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	986436	40.0000	38.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	12.349	12.349	(0.928)	4114609	40.0000	39.8
78 1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	3313362	40.0000	39.4
79 4-Chlorotoluene	126	12.440	12.430	(0.935)	981956	40.0000	38.4
80 tert-Butylbenzene	119	12.825	12.825	(0.964)	2838174	40.0000	39.4
81 1,2,4-Trimethylbenzene	105	12.885	12.886	(0.969)	3281548	40.0000	39.5
82 sec-Butylbenzene	105	13.088	13.088	(0.984)	3890721	40.0000	39.3
83 1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	1867057	40.0000	38.3
84 p-Isopropyltoluene	119	13.280	13.280	(0.998)	3465074	40.0000	39.6
85 1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	1910515	40.0000	37.8
86 BenzylChloride	91	13.513	13.513	(1.016)	1938016	40.0000	37.4
87 n-Butylbenzene	91	13.787	13.787	(1.037)	2791640	40.0000	39.1
88 1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	1728713	40.0000	37.2
89 1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	751984	200.000	187
90 1,2,4-Trichlorobenzene	180	15.771	15.772	(1.186)	1007605	40.0000	38.7
91 Hexachlorobutadiene	225	15.994	15.994	(1.203)	318816	40.0000	39.3
92 Naphthalene	128	16.075	16.075	(1.209)	2374645	40.0000	38.3
93 1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	890323	40.0000	38.4

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
Date Analyzed: 03/28/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU
File ID: U062459

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Dichlorodifluoromethane	10.0	10.08	0.174	0.175	0.8	NA	+/- 40.0	AverageRF	
Chloromethane	10.0	9.693	0.278	0.269	-3.1	NA	+/- 40.0	AverageRF	
Vinyl chloride	10.0	9.944	0.232	0.231	-0.6	NA	+/- 20.0	AverageRF	
Bromomethane	10.0	10.52	0.107	0.112	5.2	NA	+/- 40.0	AverageRF	
Chloroethane	10.0	9.938	0.131	0.130	-0.6	NA	+/- 40.0	AverageRF	
Trichlorofluoromethane	10.0	10.12	0.261	0.264	1.2	NA	+/- 40.0	AverageRF	
1,1,2-Trichlorotrifluoroethane	10.0	10.26	0.156	0.160	2.6	NA	+/- 40.0	AverageRF	
1,1-Dichloroethene	10.0	10.04	0.141	0.142	0.4	NA	+/- 20.0	AverageRF	
Acetone	50.0	47.68	0.058	0.055	-4.6	NA	+/- 40.0	AverageRF	
Carbon disulfide	10.0	10.28	0.464	0.477	2.8	NA	+/- 40.0	AverageRF	
Methylene chloride	10.0	9.616	0.166	0.160	-3.8	NA	+/- 40.0	AverageRF	
trans-1,2-Dichloroethene	10.0	10.16	0.243	0.247	1.6	NA	+/- 40.0	AverageRF	
Tert-butylmethylether	10.0	10.43	0.727	0.758	4.3	NA	+/- 40.0	AverageRF	
1,1-Dichloroethane	10.0	10.08	0.451	0.454	0.8	NA	+/- 40.0	AverageRF	
Vinyl acetate	10.0	10.20	0.992	1.013	2.0	NA	+/- 40.0	AverageRF	
2,2-Dichloropropane	10.0	9.146	0.365	0.333	-8.5	NA	+/- 40.0	AverageRF	
cis-1,2-Dichloroethene	10.0	9.671	0.280	0.270	-3.3	NA	+/- 40.0	AverageRF	
2-Butanone	50.0	52.86	0.121	0.127	5.7	NA	+/- 40.0	AverageRF	
Bromochloromethane	10.0	10.50	0.124	0.130	5.0	NA	+/- 40.0	AverageRF	
Chloroform	10.0	10.08	0.412	0.415	0.8	NA	+/- 20.0	AverageRF	
1,1,1-Trichloroethane	10.0	10.02	0.357	0.357	0.2	NA	+/- 40.0	AverageRF	
1,1-Dichloropropene	10.0	10.04	0.327	0.328	0.4	NA	+/- 40.0	AverageRF	
Carbon tetrachloride	10.0	9.787	0.268	0.262	-2.1	NA	+/- 40.0	AverageRF	
Benzene	10.0	10.04	1.012	1.016	0.4	NA	+/- 40.0	AverageRF	
1,2-Dichloroethane	10.0	10.17	0.309	0.314	1.6	NA	+/- 40.0	AverageRF	
Trichloroethene	10.0	10.14	0.248	0.252	1.4	NA	+/- 40.0	AverageRF	
1,2-Dichloropropane	10.0	10.36	0.264	0.274	3.6	NA	+/- 20.0	AverageRF	
Dibromomethane	10.0	10.07	0.139	0.140	0.7	NA	+/- 40.0	AverageRF	
Bromodichloromethane	10.0	10.22	0.290	0.296	2.2	NA	+/- 40.0	AverageRF	
cis-1,3-Dichloropropene	10.0	10.08	0.398	0.401	0.8	NA	+/- 40.0	AverageRF	
4-methyl-2-pentanone	50.0	53.28	0.243	0.259	6.6	NA	+/- 40.0	AverageRF	
Toluene	10.0	10.31	0.947	0.976	3.1	NA	+/- 20.0	AverageRF	
trans-1,3-Dichloropropene	10.0	10.32	0.514	0.531	3.2	NA	+/- 40.0	AverageRF	
1,1,2-Trichloroethane	10.0	10.66	0.242	0.258	6.6	NA	+/- 40.0	AverageRF	
Tetrachloroethene	10.0	10.08	0.352	0.355	0.8	NA	+/- 40.0	AverageRF	
1,3-Dichloropropane	10.0	10.52	0.535	0.563	5.2	NA	+/- 40.0	AverageRF	
2-Hexanone	50.0	53.66	0.243	0.260	7.3	NA	+/- 40.0	AverageRF	
Dibromochloromethane	10.0	10.42	0.298	0.311	4.2	NA	+/- 40.0	AverageRF	
1,2-Dibromoethane	10.0	10.45	0.305	0.319	4.4	NA	+/- 40.0	AverageRF	

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
Date Analyzed: 03/28/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU
File ID: U062459

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chlorobenzene	10.0	10.18	0.978	0.995	1.8	NA	+/- 40.0	AverageRF	
1,1,1,2-Tetrachloroethane	10.0	10.27	0.337	0.346	2.7	NA	+/- 40.0	AverageRF	
Ethylbenzene	10.0	10.25	1.612	1.653	2.5	NA	+/- 20.0	AverageRF	
m-,p-Xylene	20.0	20.40	0.634	0.646	2.0	NA	+/- 40.0	AverageRF	
o-Xylene	10.0	10.38	0.617	0.640	3.8	NA	+/- 40.0	AverageRF	
Xylene (total)	30.0	30.77	0.628	0.644	2.6	NA	+/- 40.0	AverageRF	
Styrene	10.0	10.25	1.024	1.049	2.5	NA	+/- 40.0	AverageRF	
Bromoform	10.0	10.37	0.167	0.174	3.7	NA	+/- 40.0	AverageRF	
Isopropylbenzene	10.0	10.42	1.527	1.591	4.2	NA	+/- 40.0	AverageRF	
1,1,2,2-Tetrachloroethane	10.0	10.43	0.820	0.855	4.3	NA	+/- 40.0	AverageRF	
Bromobenzene	10.0	10.91	0.833	0.910	9.1	NA	+/- 40.0	AverageRF	
1,2,3-Trichloropropane	10.0	10.66	0.253	0.270	6.6	NA	+/- 40.0	AverageRF	
n-Propylbenzene	10.0	10.78	0.911	0.983	7.8	NA	+/- 40.0	AverageRF	
2-Chlorotoluene	10.0	10.52	0.798	0.839	5.2	NA	+/- 40.0	AverageRF	
1,3,5-Trimethylbenzene	10.0	10.34	2.648	2.737	3.4	NA	+/- 40.0	AverageRF	
4-Chlorotoluene	10.0	10.79	0.804	0.868	7.9	NA	+/- 40.0	AverageRF	
tert-Butylbenzene	10.0	10.58	2.267	2.398	5.8	NA	+/- 40.0	AverageRF	
1,2,4-Trimethylbenzene	10.0	10.71	2.616	2.800	7.1	NA	+/- 40.0	AverageRF	
sec-Butylbenzene	10.0	10.56	3.114	3.286	5.6	NA	+/- 40.0	AverageRF	
1,3-Dichlorobenzene	10.0	10.49	1.535	1.611	4.9	NA	+/- 40.0	AverageRF	
p-Isopropyltoluene	10.0	10.59	2.752	2.913	5.8	NA	+/- 40.0	AverageRF	
1,4-Dichlorobenzene	10.0	10.23	1.590	1.627	2.3	NA	+/- 40.0	AverageRF	
n-Butylbenzene	10.0	10.67	2.247	2.398	6.7	NA	+/- 40.0	AverageRF	
1,2-Dichlorobenzene	10.0	10.42	1.462	1.523	4.2	NA	+/- 40.0	AverageRF	
1,2-Dibromo-3-chloropropane	50.0	55.41	0.126	0.140	10.8	NA	+/- 40.0	AverageRF	
1,2,4-Trichlorobenzene	10.0	11.16	0.819	0.914	11.6	NA	+/- 40.0	AverageRF	
Hexachlorobutadiene	10.0	10.59	0.255	0.270	5.9	NA	+/- 40.0	AverageRF	
Naphthalene	10.0	11.36	1.950	2.215	13.6	NA	+/- 40.0	AverageRF	
1,2,3-Trichlorobenzene	10.0	11.69	0.730	0.853	16.8	NA	+/- 40.0	AverageRF	
Dibromofluoromethane	N/A	N/A	0.213	0.228	0.0	NA	+/- 40.0	AverageRF	
Toluene-d8	N/A	N/A	1.251	1.295	0.0	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	N/A	N/A	0.766	0.808	0.0	NA	+/- 40.0	AverageRF	

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062459.D

Date : 28-MAR-2006 17:47

Client ID: QCALTSTD

Instrument: MSU.i

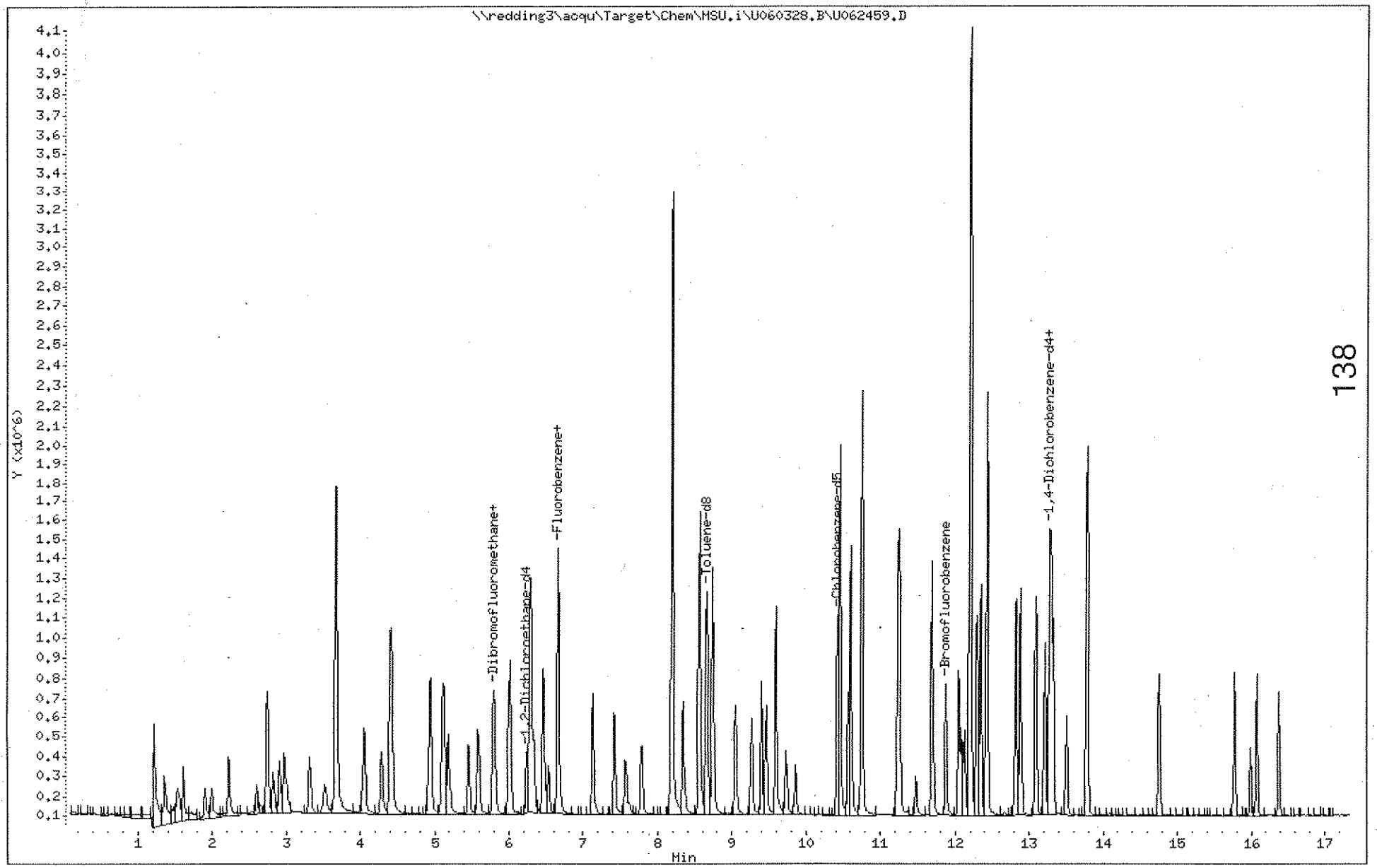
Sample Info: QCALTSTD;QCALTSTD

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\U062459.D
Lab Smp Id: QCALTSTD Client Smp ID: QCALTSTD
Inj Date : 28-MAR-2006 17:47
Operator : X Inst ID: MSU.i
Smp Info : QCALTSTD;QCALTSTD
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060328.B\8260wCanoga.m
Meth Date : 30-Mar-2006 14:26 tchilder Quant Type: ISTD
Cal Date : 28-MAR-2006 16:56 Cal File: U062457.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	6.668	6.668	(1.000)	928233	10.0000	
* 2	Chlorobenzene-d5	117	10.425	10.425	(1.000)	631401	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	273422	10.0000	
$ 4	Dibromofluoromethane	113	5.807	5.807	(0.871)	211239	10.0000	10.7
$ 5	1,2-Dichloroethane-d4	65	6.243	6.243	(0.936)	229981	10.0000	10.2
$ 6	Toluene-d8	98	8.663	8.663	(0.831)	817524	10.0000	10.4
$ 7	Bromofluorobenzene	174	11.883	11.883	(0.893)	220827	10.0000	10.5
8	Dichlorodifluoromethane	85	1.362	1.362	(0.204)	162675	10.0000	10.1
9	1,2-Dichlorotetrafluoroethane	85	1.362	1.362	(0.204)	162675	10.0000	10.1(Q)
10	Chloromethane	50	1.534	1.534	(0.230)	250158	10.0000	9.7
11	Vinyl chloride	62	1.615	1.615	(0.242)	214249	10.0000	9.9
12	Bromomethane	94	1.899	1.899	(0.285)	104324	10.0000	10.5
13	Chloroethane	64	1.990	1.990	(0.298)	120801	10.0000	9.9
14	Trichlorofluoromethane	101	2.223	2.223	(0.333)	245196	10.0000	10.1
15	1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	148780	10.0000	10.2
16	Acrolein	56	2.658	2.658	(0.399)	40220	100.000	94.8(Q)
17	1,1-Dichloroethene	96	2.749	2.749	(0.412)	131599	10.0000	10.0
18	Acetone	43	2.830	2.830	(0.424)	256420	50.0000	47.7
19	Iodomethane	142	2.911	2.911	(0.437)	341384	10.0000	11.2
20	Carbon disulfide	76	2.972	2.972	(0.446)	442445	10.0000	10.3
21	Methylene chloride	84	3.326	3.326	(0.499)	148280	10.0000	9.6
22	tert-Butanol	59	3.529	3.529	(0.529)	225432	100.000	105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 Acrylonitrile	53	3.671	3.671	(0.551)	909703	100.000	105
	24 n-Hexane	57	4.055	4.055	(0.608)	303786	10.0000	9.7
	25 trans-1,2-Dichloroethene	96	3.671	3.671	(0.551)	229227	10.0000	10.2
	26 tert-Butylmethylether	73	3.691	3.691	(0.554)	703338	10.0000	10.4
	27 1,1-Dichloroethane	63	4.288	4.288	(0.643)	421731	10.0000	10.1
	28 Isopropylether	45	4.420	4.420	(0.663)	933472	10.0000	10.3
	29 Vinyl acetate	43	4.410	4.410	(0.661)	940027	10.0000	10.2
	30 tert-Butylethylether	59	4.947	4.947	(0.742)	858919	10.0000	10.5
	31 2,2-Dichloropropane	77	5.109	5.109	(0.766)	309475	10.0000	9.1(Q)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	251026	10.0000	9.7
M	33 1,2-Dichloroethene (total)	96				480253	20.0000	19.8
	34 2-Butanone	43	5.190	5.190	(0.778)	591528	50.0000	52.9
	35 Bromochloromethane	128	5.463	5.463	(0.819)	120546	10.0000	10.5
	36 Chloroform	83	5.585	5.585	(0.838)	385576	10.0000	10.1
	37 1,1,1-Trichloroethane	97	5.797	5.797	(0.869)	331725	10.0000	10.0
	38 Isobutyl alcohol	43	6.303	6.303	(0.945)	248318	250.000	267(Q)
	39 1,1-Dichloropropene	75	6.020	6.020	(0.903)	304577	10.0000	10.0
	40 Carbon tetrachloride	119	6.000	6.000	(0.900)	243112	10.0000	9.8
	41 tert-Amylmethylether	73	6.466	6.466	(0.970)	715185	10.0000	10.5
	42 Benzene	78	6.293	6.293	(0.944)	943002	10.0000	10.0
	43 1,2-Dichloroethane	62	6.334	6.334	(0.950)	291390	10.0000	10.2
	44 n-Heptane	71	6.668	6.668	(1.000)	142997	10.0000	9.1
	45 Trichloroethene	95	7.134	7.134	(1.070)	233454	10.0000	10.1
	46 1,2-Dichloropropane	63	7.417	7.417	(1.112)	253967	10.0000	10.4
	47 1,4-Dioxane	88	7.620	7.620	(1.143)	50427	250.000	281(Q)
	48 Dibromomethane	93	7.569	7.569	(1.135)	129578	10.0000	10.1
	49 Bromodichloromethane	83	7.792	7.792	(1.169)	275008	10.0000	10.2
	50 2-Chloroethylvinyl ether	63	8.197	8.197	(1.229)	1589939	100.000	107
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	372131	10.0000	10.1
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	1203837	50.0000	53.3
	53 Toluene	92	8.744	8.744	(0.839)	616245	10.0000	10.3
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	335008	10.0000	10.3
	55 1,1,2-Trichloroethane	83	9.260	9.260	(0.888)	162890	10.0000	10.6
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	224151	10.0000	10.1
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	355412	10.0000	10.5
	58 2-Hexanone	43	9.595	9.595	(0.920)	822080	50.0000	53.6
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	196300	10.0000	10.4
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	201210	10.0000	10.4
	61 1-Chlorohexane	91	10.455	10.455	(1.003)	311454	10.0000	10.2
	62 Chlorobenzene	112	10.465	10.465	(1.004)	628252	10.0000	10.2(Q)
	63 1,1,1,2-Tetrachloroethane	131	10.577	10.577	(1.015)	218266	10.0000	10.3
	64 Ethylbenzene	91	10.607	10.607	(1.017)	1043526	10.0000	10.2
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	816013	20.0000	20.4
	66 o-Xylene	106	11.235	11.235	(1.078)	404395	10.0000	10.4
M	67 Xylene (total)	106				1220408	30.0000	30.8
	68 Styrene	104	11.255	11.255	(1.080)	662467	10.0000	10.2
	69 Bromoform	173	11.478	11.478	(1.101)	109638	10.0000	10.4
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	1004352	10.0000	10.4
	71 1,1,2,2-Tetrachloroethane	83	12.086	12.086	(0.909)	233883	10.0000	10.4
	72 Bromobenzene	156	12.055	12.055	(0.906)	248685	10.0000	10.9
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	73736	10.0000	10.6(Q)
	74 trans-1,4-Dichloro-2-butene	75	12.430	12.430	(0.935)	23852	10.0000	10.1(a)
	75 n-Propylbenzene	120	12.207	12.207	(0.918)	268717	10.0000	10.8
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	229335	10.0000	10.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	12.349	12.349	(0.928)	942437	10.0000	10.6
78 1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	748406	10.0000	10.3
79 4-Chlorotoluene	126	12.430	12.430	(0.935)	237388	10.0000	10.8
80 tert-Butylbenzene	119	12.825	12.825	(0.964)	655622	10.0000	10.6
81 1,2,4-Trimethylbenzene	105	12.886	12.886	(0.969)	765687	10.0000	10.7
82 sec-Butylbenzene	105	13.088	13.088	(0.984)	898586	10.0000	10.6
83 1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	440573	10.0000	10.5
84 p-Isopropyltoluene	119	13.280	13.280	(0.998)	796580	10.0000	10.6
85 1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	444921	10.0000	10.2
86 BenzylChloride	91	13.513	13.513	(1.016)	439779	10.0000	9.9
87 n-Butylbenzene	91	13.787	13.787	(1.037)	655590	10.0000	10.7
88 1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	416447	10.0000	10.4
89 1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	191629	50.0000	55.4
90 1,2,4-Trichlorobenzene	180	15.772	15.772	(1.186)	250014	10.0000	11.2
91 Hexachlorobutadiene	225	15.994	15.994	(1.203)	73932	10.0000	10.6
92 Naphthalene	128	16.075	16.075	(1.209)	605729	10.0000	11.4
93 1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	233116	10.0000	11.7

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
Date Analyzed: 04/12/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU
File ID: U062772

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
	Dichlorodifluoromethane	10.0	8.545	0.01	0.174	0.149	-14.6	NA	+/- 40.0	AverageRF	
*	Chloromethane	10.0	8.117	0.10	0.278	0.226	-18.8	NA	+/- 40.0	AverageRF	
#	Vinyl chloride	10.0	9.332	0.01	0.232	0.217	-6.7	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	7.748	0.01	0.107	0.083	-22.5	NA	+/- 40.0	AverageRF	
	Chloroethane	10.0	9.707	0.01	0.131	0.127	-2.9	NA	+/- 40.0	AverageRF	
	Trichlorofluoromethane	10.0	12.04	0.01	0.261	0.314	20.4	NA	+/- 40.0	AverageRF	
	1,1,2-Trichlorotrifluoroethane	10.0	11.77	0.01	0.156	0.184	17.7	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene	10.0	11.03	0.01	0.141	0.156	10.3	NA	+/- 20.0	AverageRF	
	Acetone	50.0	47.92	0.01	0.058	0.056	-4.1	NA	+/- 40.0	AverageRF	
	Carbon disulfide	10.0	10.09	0.01	0.464	0.468	0.9	NA	+/- 40.0	AverageRF	
	Methylene chloride	10.0	10.67	0.01	0.166	0.177	6.7	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	10.49	0.01	0.243	0.255	4.9	NA	+/- 40.0	AverageRF	
	Tert-butylmethylether	10.0	10.18	0.01	0.727	0.740	1.8	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane	10.0	10.31	0.10	0.451	0.464	3.1	NA	+/- 40.0	AverageRF	
	Vinyl acetate	10.0	9.331	0.01	0.992	0.926	-6.7	NA	+/- 40.0	AverageRF	
	2,2-Dichloropropane	10.0	10.34	0.01	0.365	0.377	3.4	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	9.932	0.01	0.280	0.278	-0.7	NA	+/- 40.0	AverageRF	
	2-Butanone	50.0	47.78	0.01	0.121	0.115	-4.4	NA	+/- 40.0	AverageRF	
	Bromochloromethane	10.0	10.72	0.01	0.124	0.133	7.2	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	10.86	0.01	0.412	0.448	8.6	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane	10.0	10.61	0.01	0.357	0.379	6.1	NA	+/- 40.0	AverageRF	
	1,1-Dichloropropene	10.0	10.29	0.01	0.327	0.336	2.9	NA	+/- 40.0	AverageRF	
	Carbon tetrachloride	10.0	10.40	0.01	0.268	0.278	4.0	NA	+/- 40.0	AverageRF	
	Benzene	10.0	9.970	0.01	1.012	1.009	-0.3	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane	10.0	11.21	0.01	0.309	0.346	12.1	NA	+/- 40.0	AverageRF	
	Trichloroethene	10.0	10.49	0.01	0.248	0.260	4.9	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	10.09	0.01	0.264	0.266	0.9	NA	+/- 20.0	AverageRF	
	Dibromomethane	10.0	10.10	0.01	0.139	0.140	1.0	NA	+/- 40.0	AverageRF	
	Bromodichloromethane	10.0	10.39	0.01	0.290	0.301	3.9	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	9.644	0.01	0.398	0.384	-3.6	NA	+/- 40.0	AverageRF	
	4-methyl-2-pentanone	50.0	46.75	0.01	0.243	0.228	-6.5	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	10.30	0.01	0.947	0.975	3.0	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	9.557	0.01	0.514	0.492	-4.4	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	10.16	0.01	0.242	0.246	1.6	NA	+/- 40.0	AverageRF	
	Tetrachloroethene	10.0	11.19	0.01	0.352	0.394	11.9	NA	+/- 40.0	AverageRF	
	1,3-Dichloropropane	10.0	10.15	0.01	0.535	0.543	1.5	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	44.61	0.01	0.243	0.216	-10.8	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	10.0	9.731	0.01	0.298	0.290	-2.7	NA	+/- 40.0	AverageRF	
	1,2-Dibromoethane	10.0	10.14	0.01	0.305	0.309	1.4	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria

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* SPCC Compound # CCC Compound

Client: GeoSyntec Consultant
Project: TDY

Service Request: L0600578
Date Analyzed: 04/12/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/28/2006MSU
Instrument ID: MSU
File ID: U062772

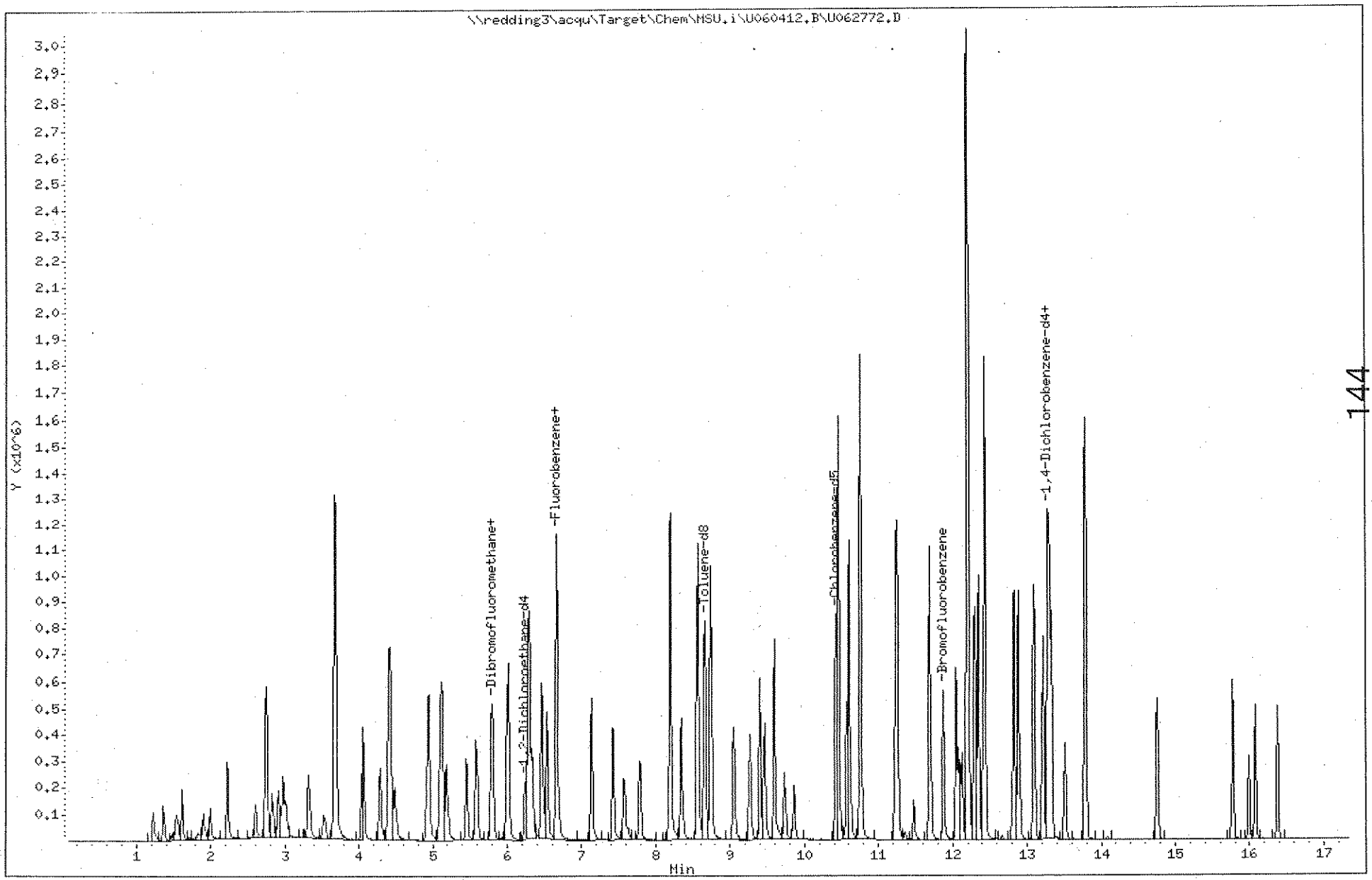
Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chlorobenzene	10.0	10.36	0.30	0.978	1.013	3.6	NA	+/- 40.0	AverageRF	
	1,1,1,2-Tetrachloroethane	10.0	10.08	0.01	0.337	0.339	0.8	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	10.39	0.01	1.612	1.675	3.9	NA	+/- 20.0	AverageRF	
	m-,p-Xylene	20.0	20.38	0.01	0.634	0.646	1.9	NA	+/- 40.0	AverageRF	
	o-Xylene	10.0	10.15	0.01	0.617	0.627	1.5	NA	+/- 40.0	AverageRF	
	Xylene (total)	N/A	N/A	0.01	0.628	0.639	1.8	NA	+/- 40.0	AverageRF	
	Styrene	10.0	10.11	0.01	1.024	1.035	1.1	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	9.271	0.10	0.167	0.155	-7.3	NA	+/- 40.0	AverageRF	
	Isopropylbenzene	10.0	10.52	0.01	1.527	1.606	5.2	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	9.212	0.30	0.820	0.755	-7.9	NA	+/- 40.0	AverageRF	
	Bromobenzene	10.0	10.90	0.01	0.833	0.908	9.0	NA	+/- 40.0	AverageRF	
	1,2,3-Trichloropropane	10.0	10.29	0.01	0.253	0.260	2.9	NA	+/- 40.0	AverageRF	
	n-Propylbenzene	10.0	10.59	0.01	0.911	0.966	5.9	NA	+/- 40.0	AverageRF	
	2-Chlorotoluene	10.0	10.47	0.01	0.798	0.835	4.7	NA	+/- 40.0	AverageRF	
	1,3,5-Trimethylbenzene	10.0	10.70	0.01	2.648	2.835	7.0	NA	+/- 40.0	AverageRF	
	4-Chlorotoluene	10.0	10.73	0.01	0.804	0.863	7.3	NA	+/- 40.0	AverageRF	
	tert-Butylbenzene	10.0	10.41	0.01	2.267	2.360	4.1	NA	+/- 40.0	AverageRF	
	1,2,4-Trimethylbenzene	10.0	10.50	0.01	2.616	2.746	5.0	NA	+/- 40.0	AverageRF	
	sec-Butylbenzene	10.0	10.42	0.01	3.114	3.244	4.2	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	10.64	0.01	1.535	1.634	6.4	NA	+/- 40.0	AverageRF	
	p-Isopropyltoluene	10.0	10.44	0.01	2.752	2.874	4.4	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	10.39	0.01	1.590	1.652	3.9	NA	+/- 40.0	AverageRF	
	n-Butylbenzene	10.0	10.67	0.01	2.247	2.398	6.7	NA	+/- 40.0	AverageRF	
	1,2-Dichlorobenzene	10.0	10.50	0.01	1.462	1.535	5.0	NA	+/- 40.0	AverageRF	
	1,2-Dibromo-3-chloropropane	50.0	48.11	0.01	0.126	0.122	-3.8	NA	+/- 40.0	AverageRF	
	1,2,4-Trichlorobenzene	10.0	10.65	0.01	0.819	0.872	6.4	NA	+/- 40.0	AverageRF	
	Hexachlorobutadiene	10.0	11.92	0.01	0.255	0.304	19.2	NA	+/- 40.0	AverageRF	
	Naphthalene	10.0	9.627	0.01	1.950	1.877	-3.7	NA	+/- 40.0	AverageRF	
	1,2,3-Trichlorobenzene	10.0	10.75	0.01	0.730	0.785	7.5	NA	+/- 40.0	AverageRF	
	Dibromofluoromethane	10.0	9.584	0.01	0.213	0.204	-4.2	NA	+/- 40.0	AverageRF	
	Toluene-d8	10.0	9.399	0.01	1.251	1.176	-6.0	NA	+/- 40.0	AverageRF	
	Bromofluorobenzene	10.0	10.63	0.01	0.766	0.815	6.3	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Data File: \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062772.D
Date : 12-APR-2006 12:51
Client ID: VSTD010
Sample Info: VSTD010;VSTD010
Purge Volume: 10.0
Column Phase: DB-624

Instrument: MSU.i
Operator: X
Column diameter: 0.32



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Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\U062772.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 12-APR-2006 12:51
Operator : X Inst ID: MSU.i
Smp Info : VSTD010;VSTD010
Misc Info :
Comment :
Method : \\redding3\acqu\Target\Chem\MSU.i\U060412.B\8260wCanoga.m
Meth Date : 12-Apr-2006 13:21 bgeers Quant Type: ISTD
Cal Date : 28-MAR-2006 16:56 Cal File: U062457.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	6.668	6.668	(1.000)	747309	10.0000	
*	2 Chlorobenzene-d5	117	10.425	10.425	(1.000)	520161	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.301	13.301	(1.000)	233054	10.0000	
$	4 Dibromofluoromethane	113	5.807	5.807	(0.871)	152823	10.0000	9.6
$	5 1,2-Dichloroethane-d4	65	6.233	6.233	(0.935)	172362	10.0000	9.5
$	6 Toluene-d8	98	8.663	8.663	(0.831)	611497	10.0000	9.4
$	7 Bromofluorobenzene	174	11.883	11.883	(0.893)	189908	10.0000	10.6
	8 Dichlorodifluoromethane	85	1.362	1.362	(0.204)	110994	10.0000	8.5
	9 1,2-Dichlorotetrafluoroethane	85	1.362	1.362	(0.204)	110994	10.0000	8.5(Q)
	10 Chloromethane	50	1.534	1.534	(0.230)	168649	10.0000	8.1
	11 Vinyl chloride	62	1.615	1.615	(0.242)	161871	10.0000	9.3
	12 Bromomethane	94	1.899	1.899	(0.285)	61837	10.0000	7.7
	13 Chloroethane	64	1.990	1.990	(0.298)	95002	10.0000	9.7
	14 Trichlorofluoromethane	101	2.223	2.223	(0.333)	234898	10.0000	12.0
	15 1,1,2-Trichlorotrifluoroethane	101	2.749	2.749	(0.412)	137439	10.0000	11.8
	16 Acrolein	56	2.658	2.658	(0.399)	10103	100.000	29.6(Q)
	17 1,1-Dichloroethene	96	2.749	2.749	(0.412)	116441	10.0000	11.0
	18 Acetone	43	2.830	2.830	(0.424)	207473	50.0000	47.9
	19 Iodomethane	142	2.911	2.911	(0.437)	242163	10.0000	9.8
	20 Carbon disulfide	76	2.972	2.972	(0.446)	349536	10.0000	10.1
	21 Methylene chloride	84	3.316	3.316	(0.497)	132462	10.0000	10.7
	22 tert-Butanol	59	3.529	3.529	(0.529)	153583	100.000	88.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 Acrylonitrile	53	3.671	3.671	(0.551)	669523	100.000	95.9
	24 n-Hexane	57	4.056	4.056	(0.608)	260986	10.0000	10.4
	25 trans-1,2-Dichloroethene	96	3.671	3.671	(0.551)	190506	10.0000	10.5
	26 tert-Butylmethylether	73	3.691	3.691	(0.554)	553013	10.0000	10.2
	27 1,1-Dichloroethane	63	4.288	4.288	(0.643)	347047	10.0000	10.3
	28 Isopropylether	45	4.420	4.420	(0.663)	745127	10.0000	10.2
	29 Vinyl acetate	43	4.410	4.410	(0.661)	692078	10.0000	9.3
	30 tert-Butylethylether	59	4.947	4.947	(0.742)	667903	10.0000	10.2
	31 2,2-Dichloropropane	77	5.109	5.109	(0.766)	281642	10.0000	10.3(Q)
	32 cis-1,2-Dichloroethene	96	5.129	5.129	(0.769)	207541	10.0000	9.9
M	33 1,2-Dichloroethene (total)	96				398047	20.0000	20.4
	34 2-Butanone	43	5.190	5.190	(0.778)	430454	50.0000	47.8
	35 Bromochloromethane	128	5.453	5.453	(0.818)	99149	10.0000	10.7
	36 Chloroform	83	5.585	5.585	(0.838)	334424	10.0000	10.8
	37 1,1,1-Trichloroethane	97	5.787	5.787	(0.868)	282902	10.0000	10.6
	38 Isobutyl alcohol	43	6.304	6.304	(0.945)	147768	250.000	198(Q)
	39 1,1-Dichloropropene	75	6.020	6.020	(0.903)	251410	10.0000	10.3
	40 Carbon tetrachloride	119	6.000	6.000	(0.900)	208005	10.0000	10.4
	41 tert-Amylmethylether	73	6.466	6.466	(0.970)	525711	10.0000	9.6
	42 Benzene	78	6.293	6.293	(0.944)	753841	10.0000	10
	43 1,2-Dichloroethane	62	6.334	6.334	(0.950)	258741	10.0000	11.2
	44 n-Heptane	71	6.668	6.668	(1.000)	133438	10.0000	10.5
	45 Trichloroethene	95	7.134	7.134	(1.070)	194403	10.0000	10.5
	46 1,2-Dichloropropane	63	7.417	7.417	(1.112)	199097	10.0000	10.1
	47 1,4-Dioxane	88	7.620	7.620	(1.143)	36813	250.000	255(Q)
	48 Dibromomethane	93	7.569	7.569	(1.135)	104671	10.0000	10.1
	49 Bromodichloromethane	83	7.782	7.782	(1.167)	225194	10.0000	10.4
	50 2-Chloroethylvinyl ether	63	8.197	8.197	(1.229)	614199	100.000	51.2
	51 cis-1,3-Dichloropropene	75	8.349	8.349	(1.252)	286790	10.0000	9.6
	52 4-Methyl-2-pentanone	43	8.562	8.562	(1.284)	850571	50.0000	46.8
	53 Toluene	92	8.744	8.744	(0.839)	507257	10.0000	10.3
	54 trans-1,3-Dichloropropene	75	9.048	9.048	(0.868)	255660	10.0000	9.6
	55 1,1,2-Trichloroethane	83	9.260	9.260	(0.888)	127881	10.0000	10.2
	56 Tetrachloroethene	166	9.402	9.402	(0.902)	204998	10.0000	11.2
	57 1,3-Dichloropropane	76	9.463	9.463	(0.908)	282601	10.0000	10.2
	58 2-Hexanone	43	9.595	9.595	(0.920)	563064	50.0000	44.6
	59 Dibromochloromethane	129	9.736	9.736	(0.934)	151037	10.0000	9.7
	60 1,2-Dibromoethane	107	9.858	9.858	(0.946)	160900	10.0000	10.1
	61 1-Chlorohexane	91	10.455	10.455	(1.003)	255030	10.0000	10.2
	62 Chlorobenzene	112	10.465	10.465	(1.004)	526767	10.0000	10.4(Q)
	63 1,1,1,2-Tetrachloroethane	131	10.567	10.567	(1.014)	176549	10.0000	10.1
	64 Ethylbenzene	91	10.607	10.607	(1.017)	871523	10.0000	10.4
	65 m-,p-Xylene	106	10.759	10.759	(1.032)	671843	20.0000	20.4
	66 o-Xylene	106	11.235	11.235	(1.078)	325999	10.0000	10.2
M	67 Xylene (total)	106				997842	30.0000	30.5
	68 Styrene	104	11.255	11.255	(1.080)	538558	10.0000	10.1
	69 Bromoform	173	11.478	11.478	(1.101)	80771	10.0000	9.3
	70 Isopropylbenzene	105	11.691	11.691	(1.121)	835220	10.0000	10.5
	71 1,1,2,2-Tetrachloroethane	83	12.086	12.086	(0.909)	176038	10.0000	9.2
	72 Bromobenzene	156	12.055	12.055	(0.906)	211646	10.0000	10.9
	73 1,2,3-Trichloropropane	110	12.126	12.126	(0.912)	60664	10.0000	10.3(Q)
	74 trans-1,4-Dichloro-2-butene	75	12.430	12.430	(0.935)	21266	10.0000	10.6(a)
	75 n-Propylbenzene	120	12.197	12.197	(0.917)	225048	10.0000	10.6
	76 2-Chlorotoluene	126	12.298	12.298	(0.925)	194664	10.0000	10.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77	4-Ethyltoluene	105	12.349	12.349	(0.928)	791772	10.0000	10.4
78	1,3,5-Trimethylbenzene	105	12.430	12.430	(0.935)	660693	10.0000	10.7
79	4-Chlorotoluene	126	12.430	12.430	(0.935)	201209	10.0000	10.7
80	tert-Butylbenzene	119	12.825	12.825	(0.964)	549929	10.0000	10.4
81	1,2,4-Trimethylbenzene	105	12.886	12.886	(0.969)	639924	10.0000	10.5
82	sec-Butylbenzene	105	13.088	13.088	(0.984)	756102	10.0000	10.4
83	1,3-Dichlorobenzene	146	13.220	13.220	(0.994)	380737	10.0000	10.6
84	p-Isopropyltoluene	119	13.281	13.281	(0.998)	669886	10.0000	10.4
85	1,4-Dichlorobenzene	146	13.331	13.331	(1.002)	385046	10.0000	10.4
86	BenzylChloride	91	13.503	13.503	(1.015)	307037	10.0000	8.1
87	n-Butylbenzene	91	13.787	13.787	(1.037)	558809	10.0000	10.7
88	1,2-Dichlorobenzene	146	13.787	13.787	(1.037)	357758	10.0000	10.5
89	1,2-Dibromo-3-chloropropane	75	14.759	14.759	(1.110)	141823	50.0000	48.1
90	1,2,4-Trichlorobenzene	180	15.772	15.772	(1.186)	203218	10.0000	10.6
91	Hexachlorobutadiene	225	15.994	15.994	(1.203)	70937	10.0000	11.9
92	Naphthalene	128	16.075	16.075	(1.209)	437465	10.0000	9.6
93	1,2,3-Trichlorobenzene	180	16.379	16.379	(1.231)	182856	10.0000	10.8

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultant **Service Request:** L0600578
Project: TDY

Analysis Run Log
Volatile Organic Compounds

Analysis Method: SW8260 **Instrument ID:** MSU
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
U062451	VSTD00.3	VSTD00.3	03/28/2006	14:23		03/28/2006	14:44
U062452	VSTD00.5	VSTD00.5	03/28/2006	14:48		03/28/2006	15:09
U062453	VSTD001	VSTD001	03/28/2006	15:14		03/28/2006	15:35
U062454	VSTD005	VSTD005	03/28/2006	15:39		03/28/2006	16:00
U062455	VSTD010	VSTD010	03/28/2006	16:05		03/28/2006	16:26
U062456	VSTD020	VSTD020	03/28/2006	16:30		03/28/2006	16:51
U062457	VSTD040	VSTD040	03/28/2006	16:56		03/28/2006	17:17
U062459	QCALTSTD	QCALTSTD	03/28/2006	17:47		03/28/2006	18:08
U062772	VSTD010	VSTD010	04/12/2006	12:51		04/12/2006	13:12
U062773	Laboratory Control Sample	U0412W01LCS	04/12/2006	13:30		04/12/2006	13:51
U062774	Laboratory Control Sample Duplicate	U0412W01LCSD	04/12/2006	13:55		04/12/2006	14:16
U062777	Method Blank	U0412W01	04/12/2006	15:12		04/12/2006	15:33
U062788	B131-MW2D	L0600578-005	04/12/2006	19:52		04/12/2006	20:13
U062789	QCEB-033106	L0600578-006	04/12/2006	20:18		04/12/2006	20:39
U062790	B131-MW3D	L0600578-007	04/12/2006	20:43		04/12/2006	21:04

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultant
Project: TDY
Sample Matrix: Water

Service Request: L0600578
Date Extracted: 04/12/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0412W01
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	U0412W01	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	U0412W01LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	U0412W01LCSD	NA	NA	10.00 ML	10.00	NA	
B131-MW2D	L0600578-005	03/31/2006	04/03/2006	10.00 ML	10.00	NA	
QCEB-033106	L0600578-006	03/31/2006	04/03/2006	10.00 ML	10.00	NA	
B131-MW3D	L0600578-007	03/31/2006	04/03/2006	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultant **Service Request:** L0600578
Project: TDY

Holding Time Summary
Volatile Organic Compounds

Analysis Method: SW8260

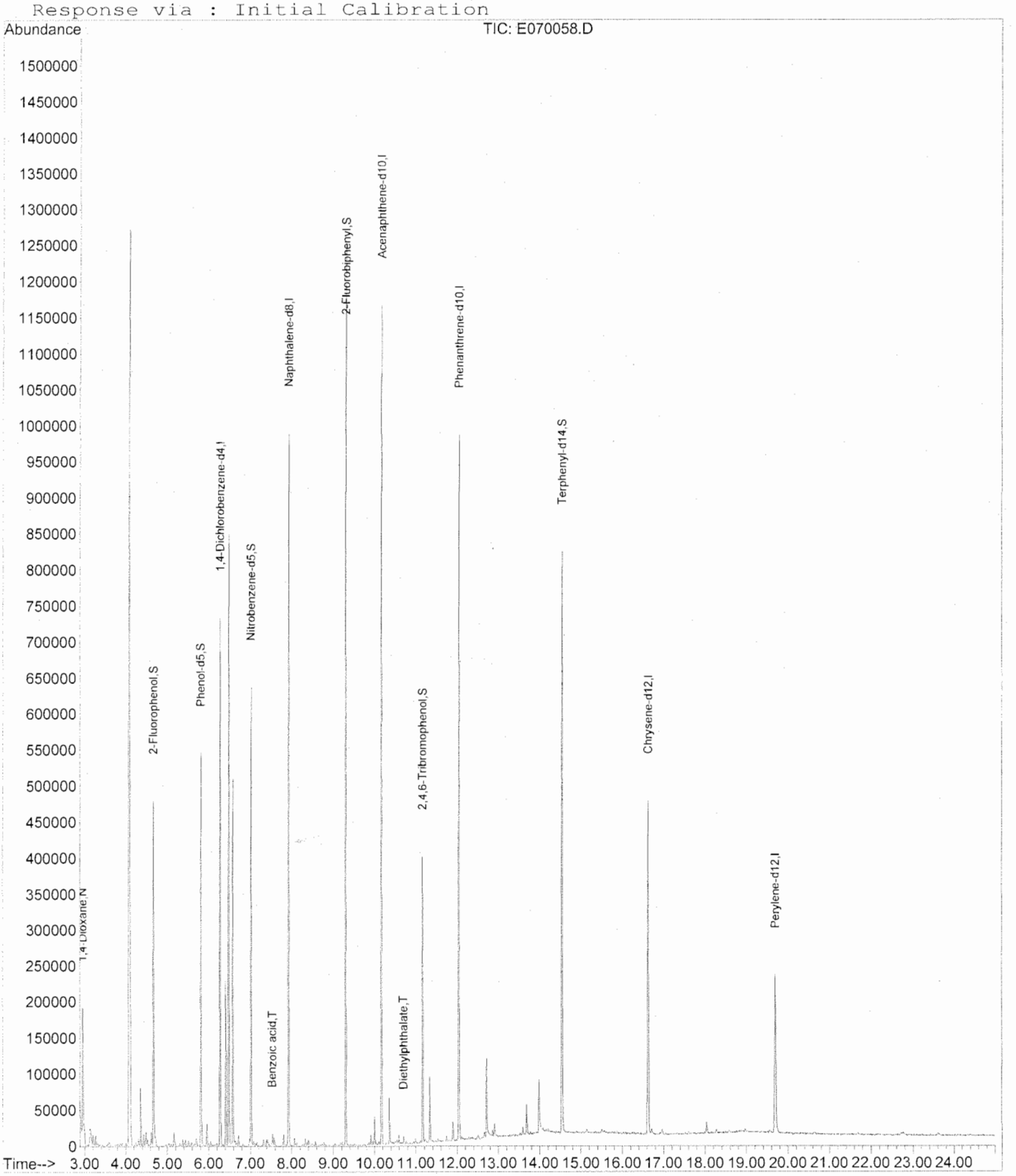
Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
B131-MW2D	03/31/2006	04/03/2006	N/A	N/A	N/A	N/A	N/A	N/A	04/12/2006	14	12	
QCEB-033106	03/31/2006	04/03/2006	N/A	N/A	N/A	N/A	N/A	N/A	04/12/2006	14	12	
B131-MW3D	03/31/2006	04/03/2006	N/A	N/A	N/A	N/A	N/A	N/A	04/12/2006	14	12	

Comments:

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070058.D Vial: 11
Acq On : 18 Jan 2007 5:59 pm Operator: GJ
Sample : D0700056-005 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:50 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070058.D Vial: 11
Acq On : 18 Jan 2007 5:59 pm Operator: GJ
Sample : D0700056-005 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:48:42 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

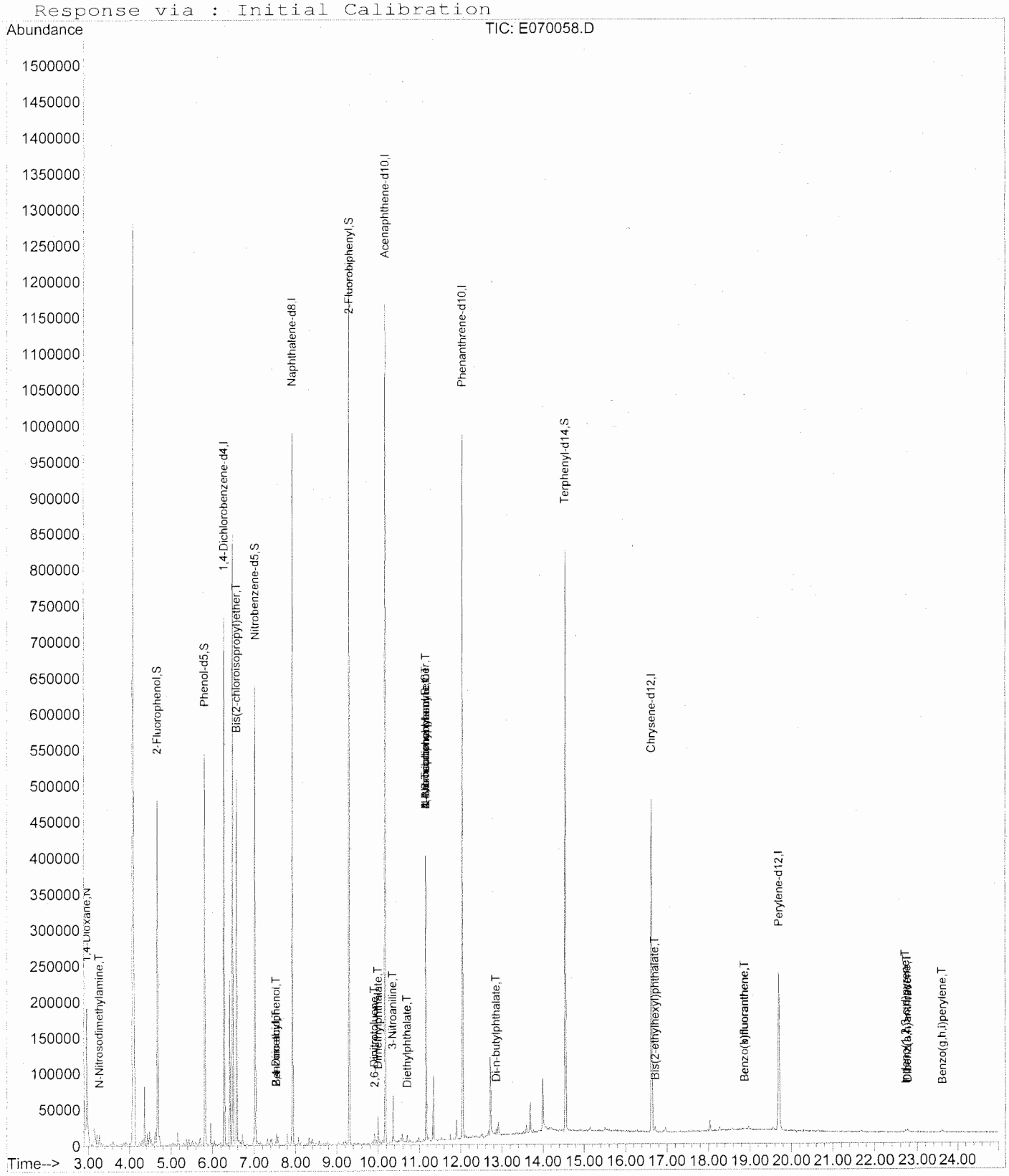
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	135143	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	538762	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	304323	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	475035	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	263575	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	155459	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	177482	41.25	mg/L	-0.06
Spiked Amount 50.000			Recovery =	82.50%		
7) Phenol-d5	5.81	99	242795	43.54	mg/L	-0.06
Spiked Amount 50.000			Recovery =	87.08%		
23) Nitrobenzene-d5	7.03	82	223252	49.04	mg/L	-0.08
Spiked Amount 50.000			Recovery =	98.08%		
41) 2-Fluorobiphenyl	9.30	172	457629	47.69	mg/L	-0.09
Spiked Amount 50.000			Recovery =	95.38%		
61) 2,4,6-Tribromophenol	11.17	330	46232	40.58	mg/L	-0.10
Spiked Amount 50.000			Recovery =	81.16%		
73) Terphenyl-d14	14.55	244	353294	47.96	mg/L	-0.14
Spiked Amount 50.000			Recovery =	95.92%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.95	88	94657	47.83	mg/L #	82
3) N-Nitrosodimethylamine	3.26	42	609	0.24	mg/L #	1
18) Bis(2-chloroisopropyl)ethe	6.58	45	222143	24.10	mg/L #	49
27) 2,4-Dimethylphenol	7.54	122	2965	0.68	mg/L #	1
28) Benzoic acid	7.54	122	2965	1.03	mg/L	83
44) Dimethylphthalate	10.00	163	13432	1.43	mg/L #	79
46) 2,6-Dinitrotoluene	9.91	165	963	0.44	mg/L #	33
47) 3-Nitroaniline	10.36	138	377	1.98	mg/L #	1
54) Diethylphthalate	10.71	149	2030	0.21	mg/L	99
59) N-Nitrosodiphenylamine	11.16	169	2056	0.30	mg/L #	33
62) 4-Bromophenyl phenyl ether	11.17	248	2680	1.07	mg/L #	1
67) Carbazole	12.35	167	111	Below Cal	#	43
68) Di-n-butylphthalate	12.86	149	5167	0.35	mg/L #	98
78) Bis(2-ethylhexyl)phthalate	16.71	149	3611	0.54	mg/L #	92
82) Benzo(b)fluoranthene	18.88	252	1621	0.29	mg/L #	76
83) Benzo(k)fluoranthene	18.88	252	1621	0.30	mg/L #	71
85) Indeno(1,2,3-c,d)pyrene	22.73	276	3708	1.03	mg/L #	76
86) Dibenz(a,h)anthracene	22.76	278	3219	1.04	mg/L #	88
87) Benzo(g,h,i)perylene	23.62	276	3183	1.07	mg/L #	77

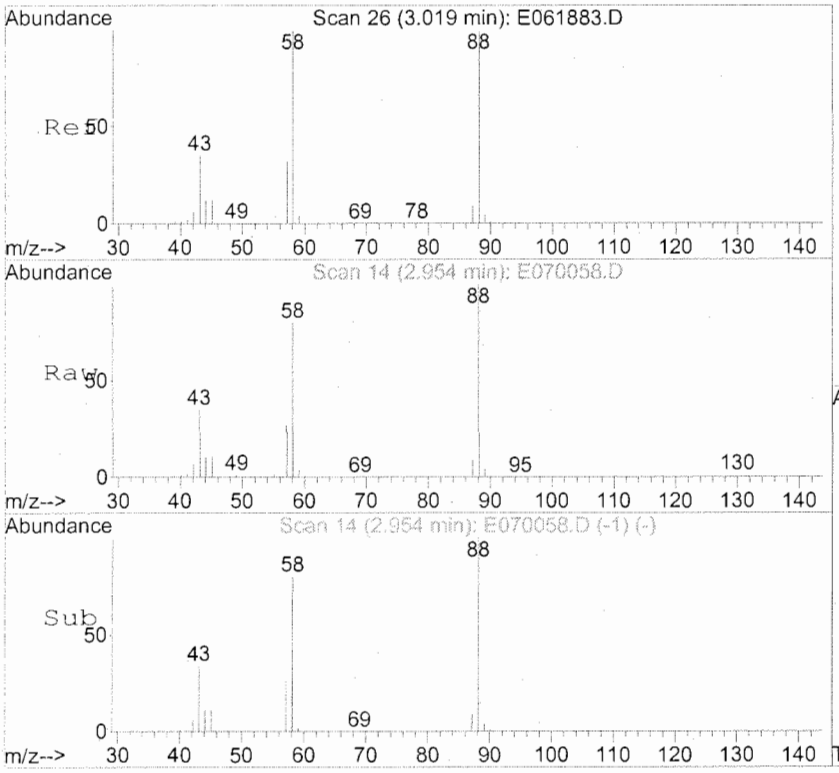
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070058.D Vial: 11
Acq On : 18 Jan 2007 5:59 pm Operator: GJ
Sample : D0700056-005 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:48 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

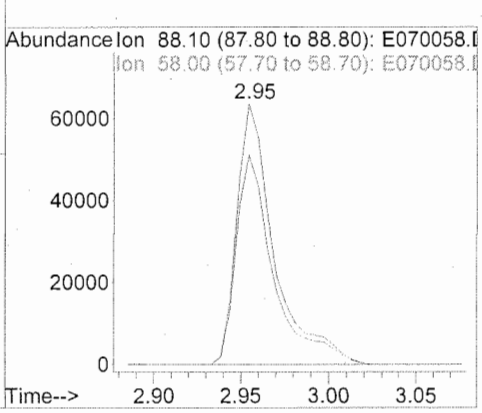


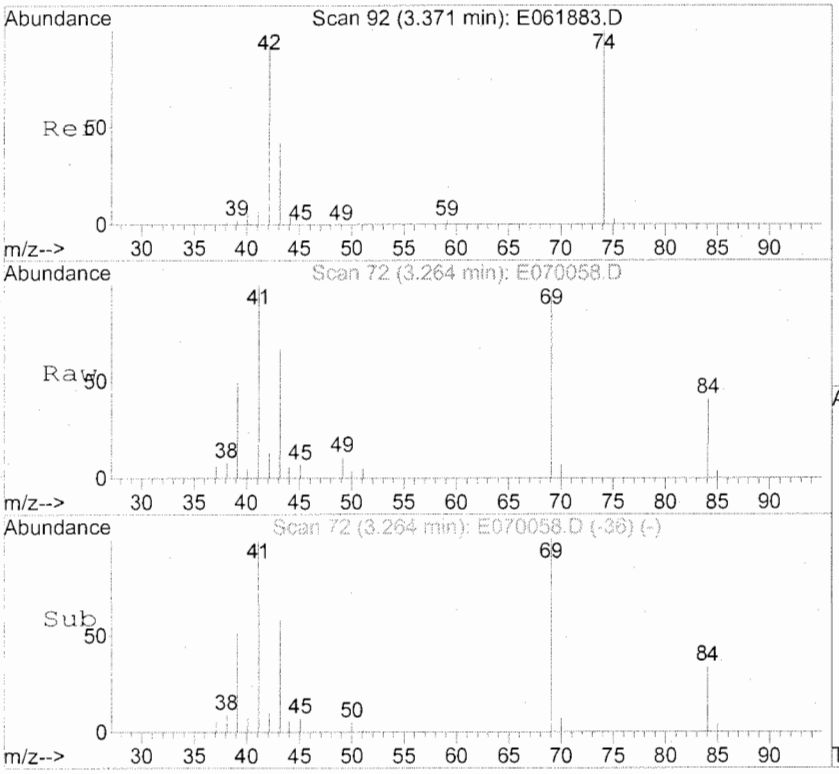


#2
1,4-Dioxane
Concen: 47.83 mg/L
RT: 2.95 min Scan# 14
Delta R.T. -0.06 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion: 88 Resp: 94657

Ion	Ratio	Lower	Upper
88	100		
58	81.0	53.5	80.3#

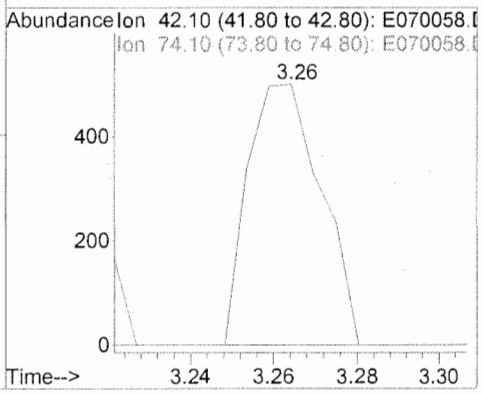


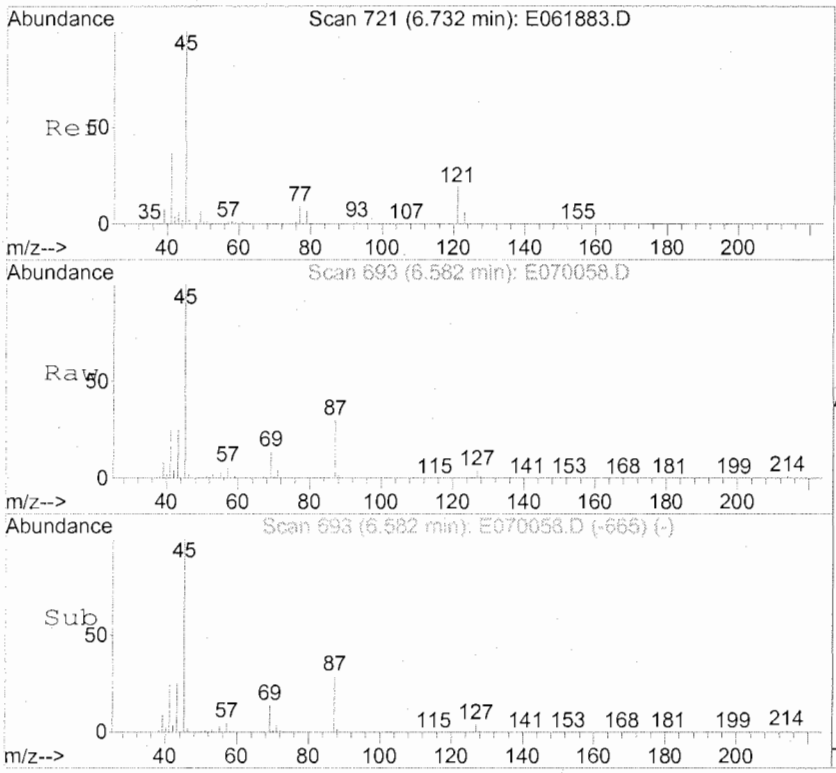


#3
N-Nitrosodimethylamine
Concen: 0.24 mg/L
RT: 3.26 min Scan# 72
Delta R.T. -0.11 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion: 42 Resp: 609

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

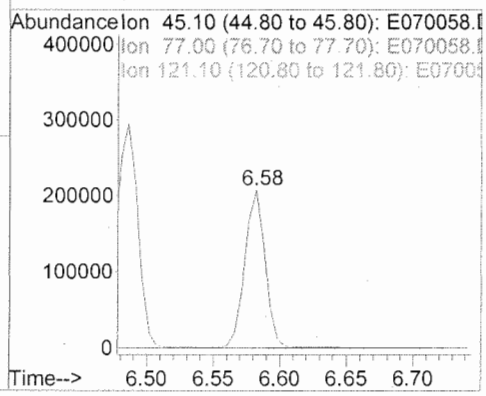


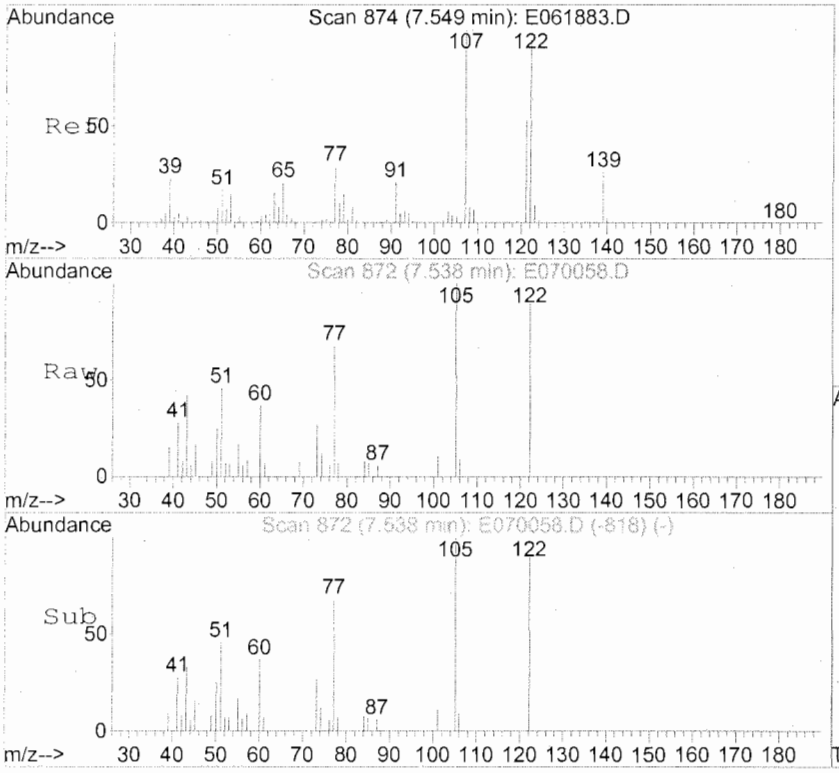


#18
Bis(2-chloroisopropyl)ether
Concen: 24.10 mg/L
RT: 6.58 min Scan# 693
Delta R.T. -0.15 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion: 45 Resp: 222143

Ion	Ratio	Lower	Upper
45	100		
77	0.0	14.2	21.4#
121	0.0	25.0	37.6#

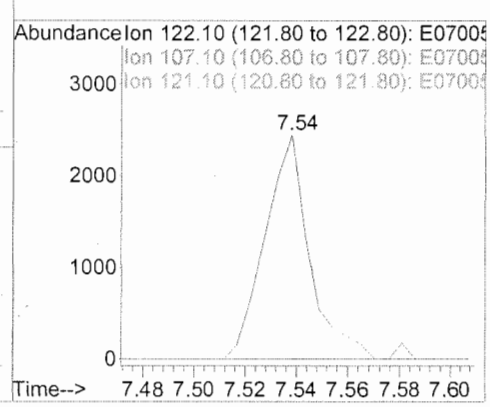


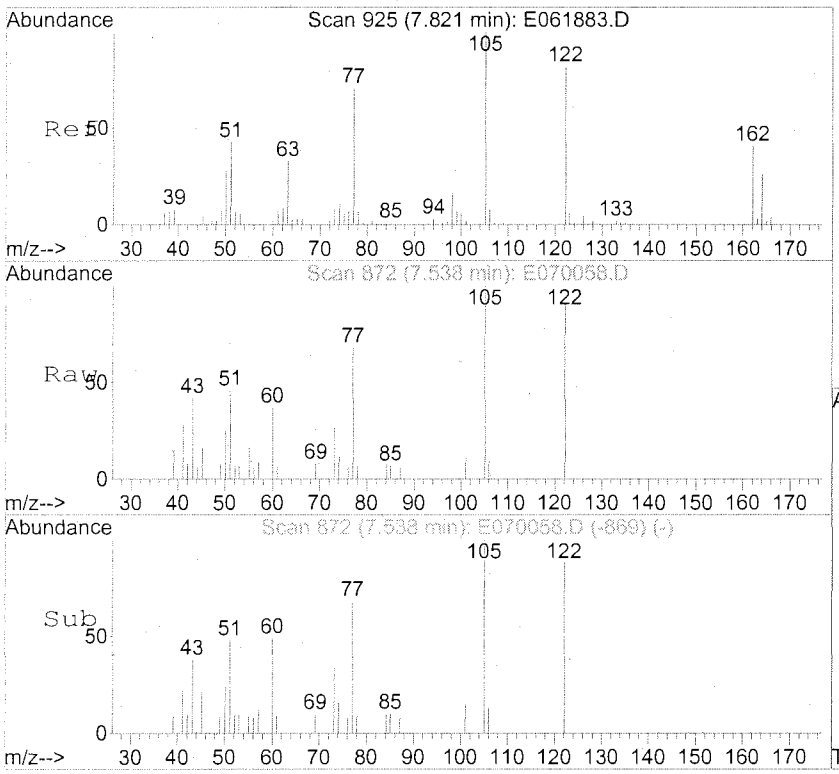


#27
2,4-Dimethylphenol
Concen: 0.68 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:122 Resp: 2965

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

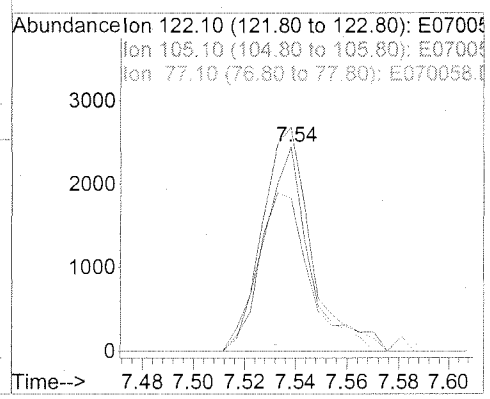


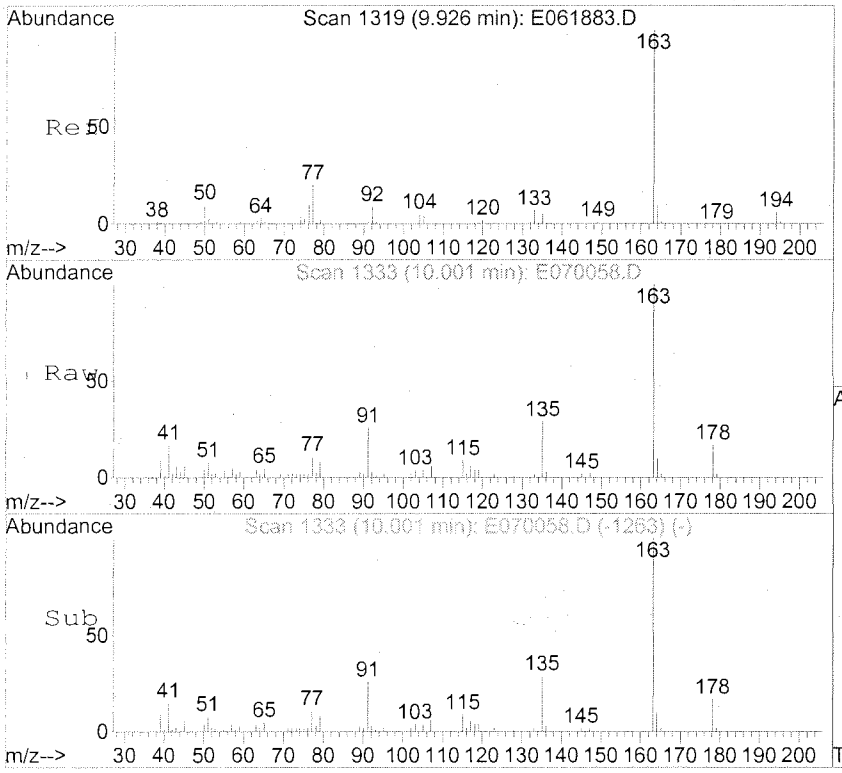


#28
Benzoic acid
Concen: 1.03 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.28 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:122 Resp: 2965

Ion	Ratio	Lower	Upper
122	100		
105	121.7	110.2	165.2
77	90.1	89.8	134.8

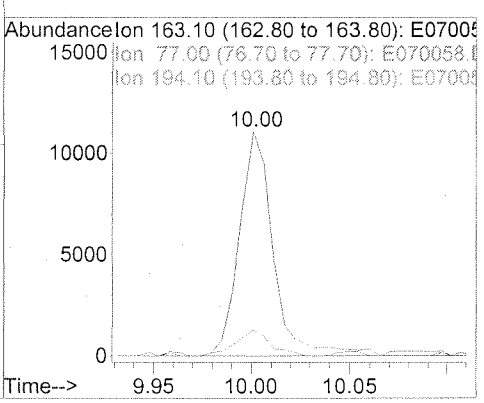


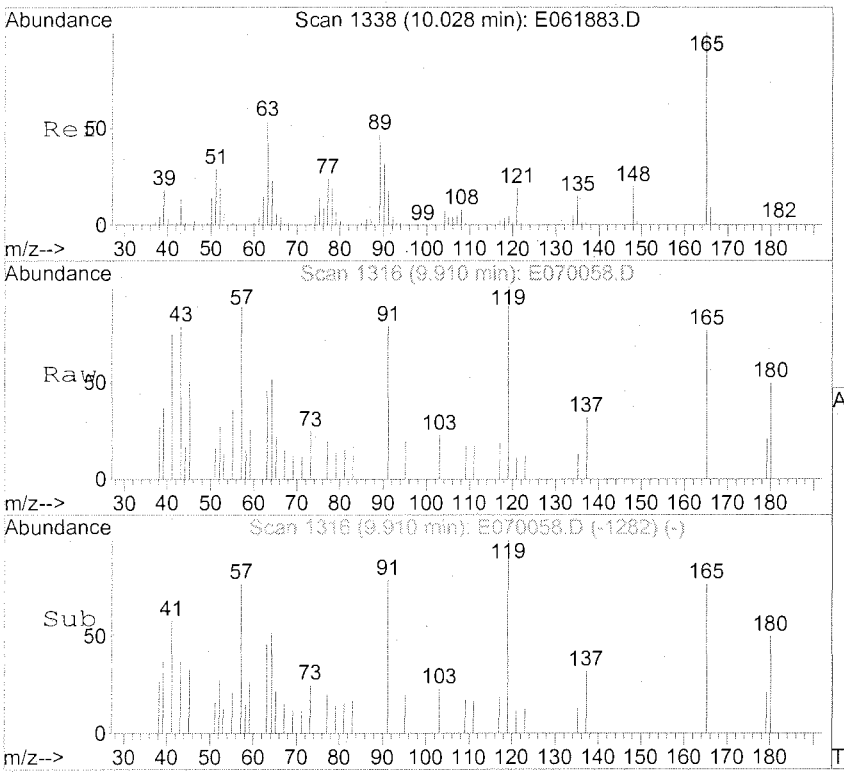


#44
Dimethylphthalate
Concen: 1.43 mg/L
RT: 10.00 min Scan# 1333
Delta R.T. 0.07 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:163 Resp: 13432

Ion	Ratio	Lower	Upper
163	100		
77	11.7	17.4	26.2#
194	0.0	5.5	8.3#

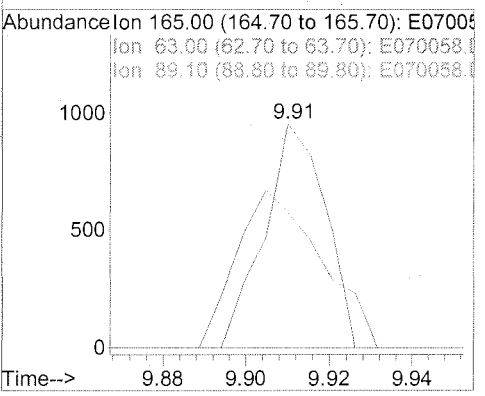


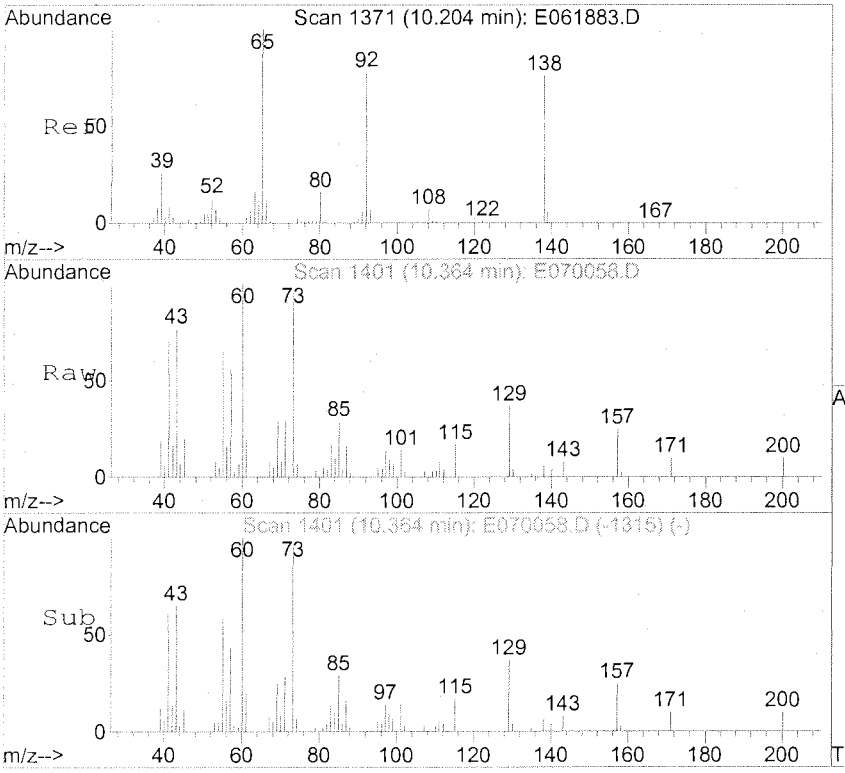


#46
2,6-Dinitrotoluene
Concen: 0.44 mg/L
RT: 9.91 min Scan# 1316
Delta R.T. -0.12 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:165 Resp: 963

Ion	Ratio	Lower	Upper
165	100		
63	97.4	45.3	67.9#
89	0.0	47.1	70.7#

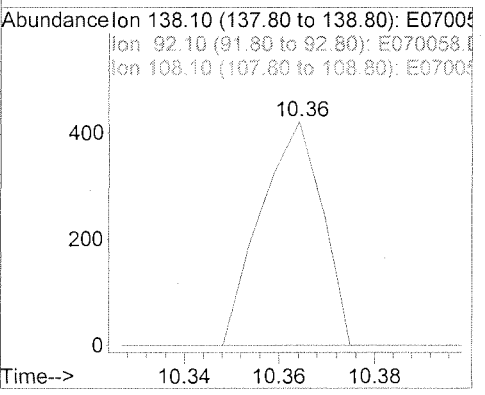


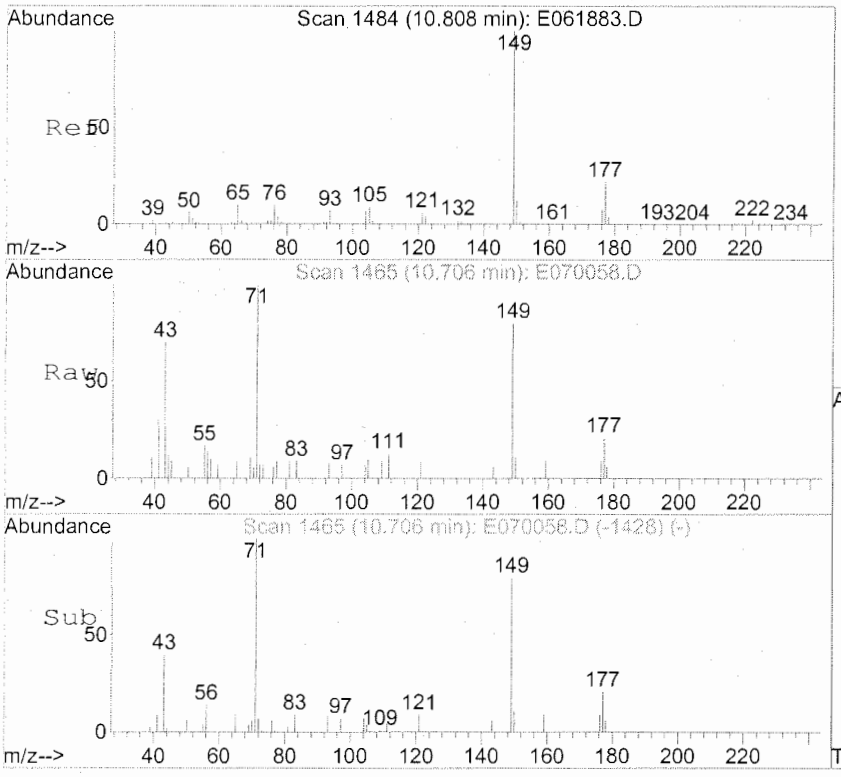


#47
3-Nitroaniline
Concen: 1.98 mg/L
RT: 10.36 min Scan# 1401
Delta R.T. 0.16 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:138 Resp: 377

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

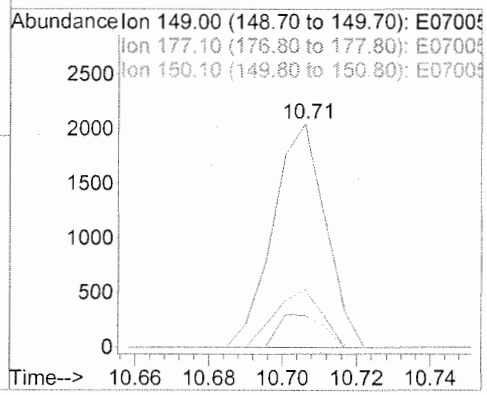


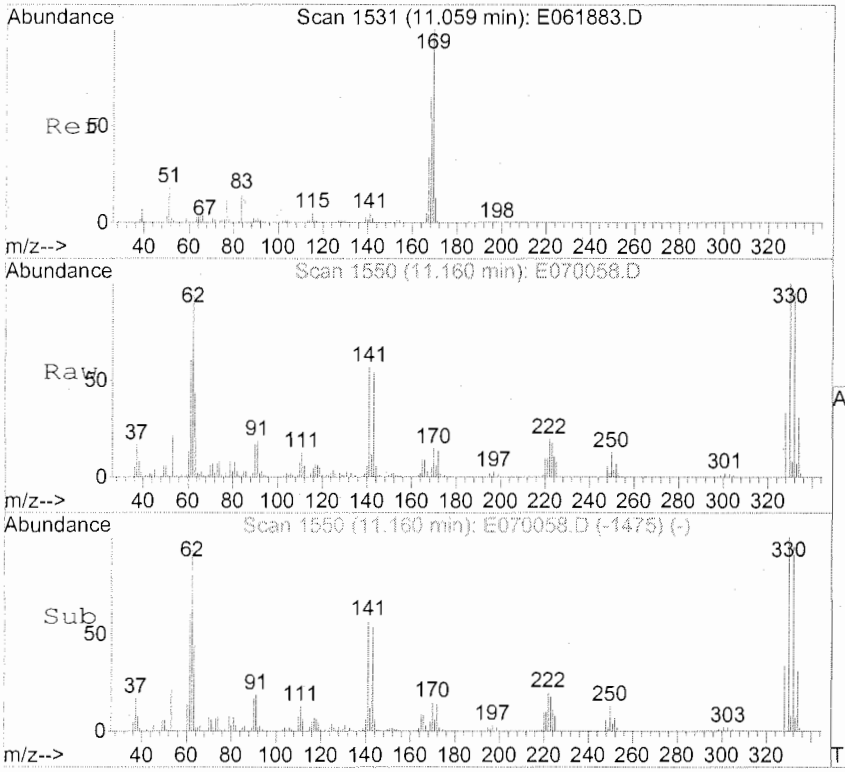


#54
Diethylphthalate
Concen: 0.21 mg/L
RT: 10.71 min Scan# 1465
Delta R.T. -0.10 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:149 Resp: 2030

Ion	Ratio	Lower	Upper
149	100		
177	22.8	19.0	28.6
150	12.4	10.0	15.0

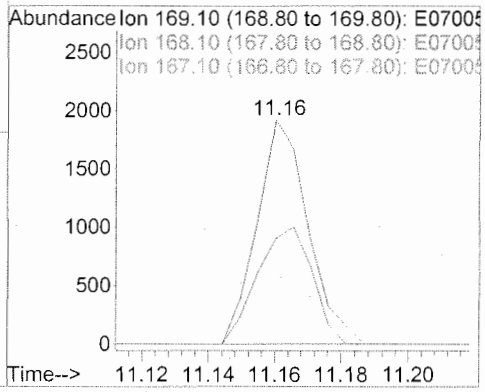


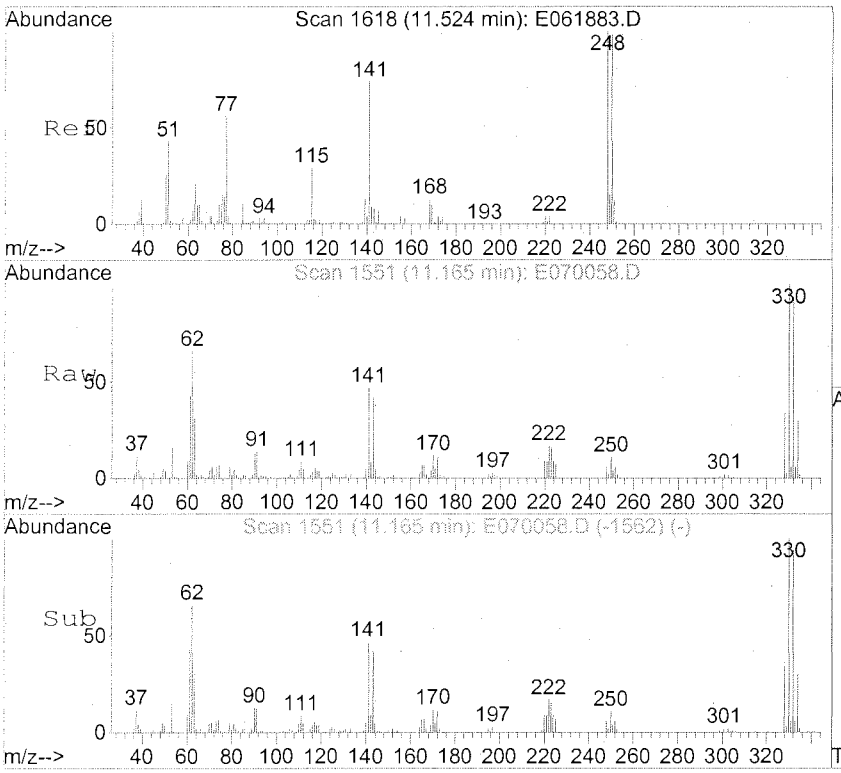


#59
N-Nitrosodiphenylamine
Concen: 0.30 mg/L
RT: 11.16 min Scan# 1550
Delta R.T. 0.10 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:169 Resp: 2056

Ion	Ratio	Lower	Upper
169	100		
168	0.0	50.8	76.2#
167	56.0	27.0	40.4#

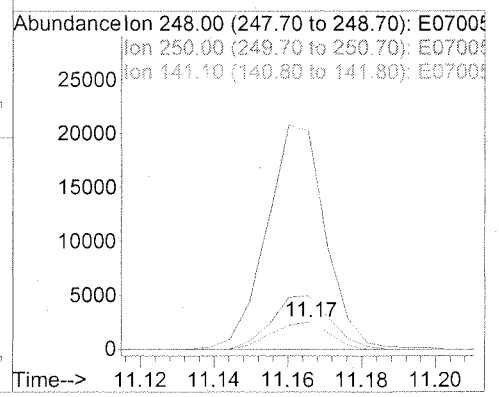


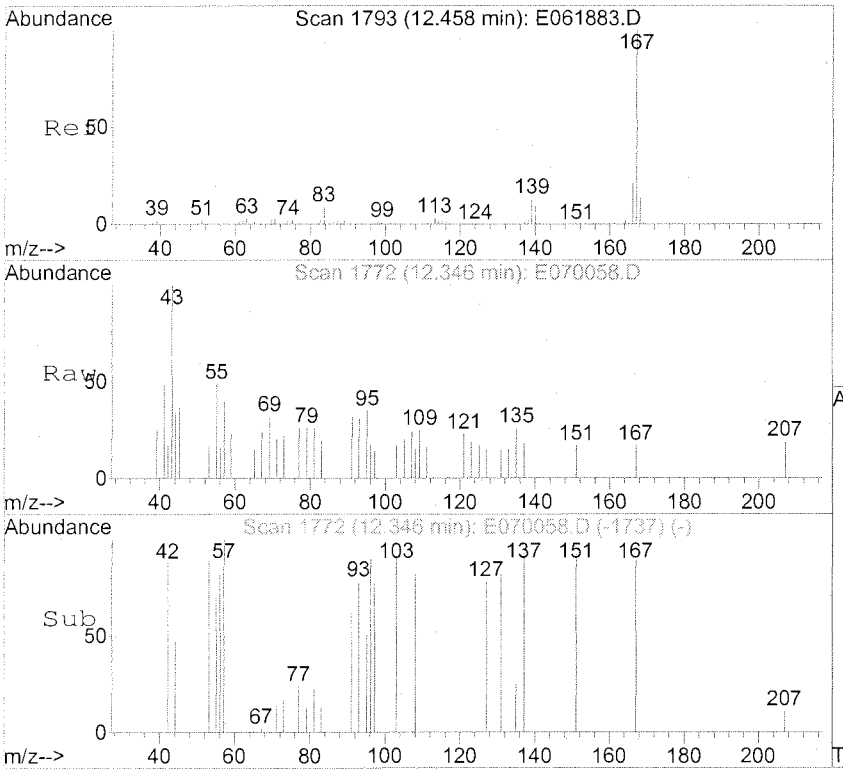


#62
4-Bromophenyl phenyl ether
Concen: 1.07 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:248 Resp: 2680

Ion	Ratio	Lower	Upper
248	100		
250	203.4	79.0	118.4#
141	862.1	64.3	96.5#

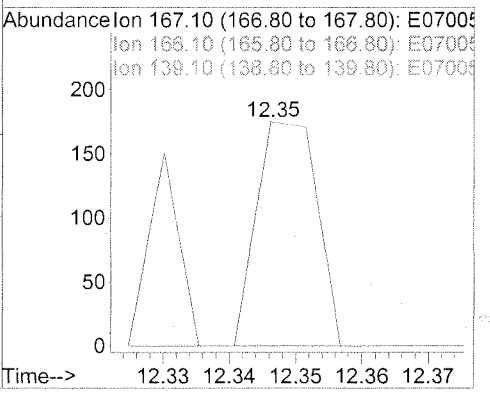


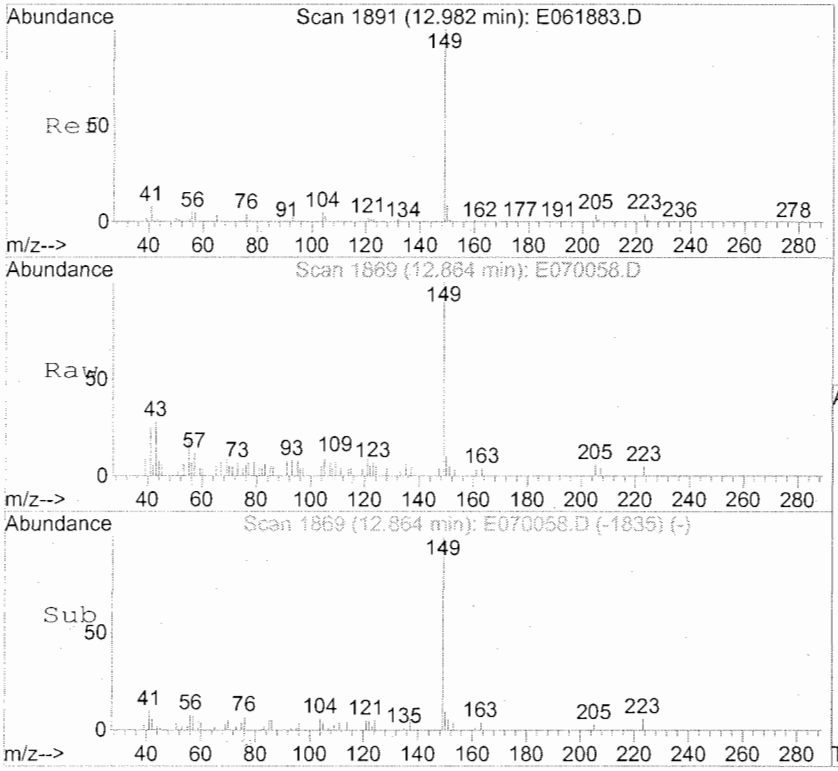


#67
Carbazole
Concen: Below Cal
RT: 12.35 min Scan# 1772
Delta R.T. -0.11 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:167 Resp: 111

Ion	Ratio	Lower	Upper
167	100		
166	0.0	17.2	25.8#
139	43.2	10.6	16.0#

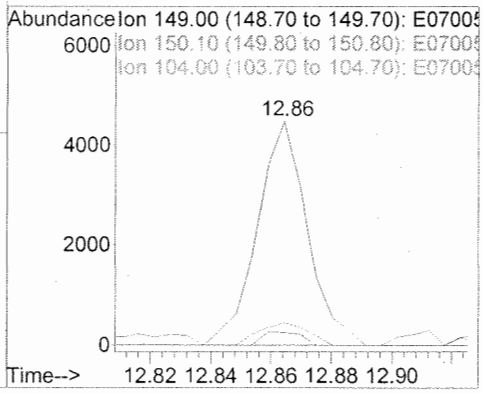


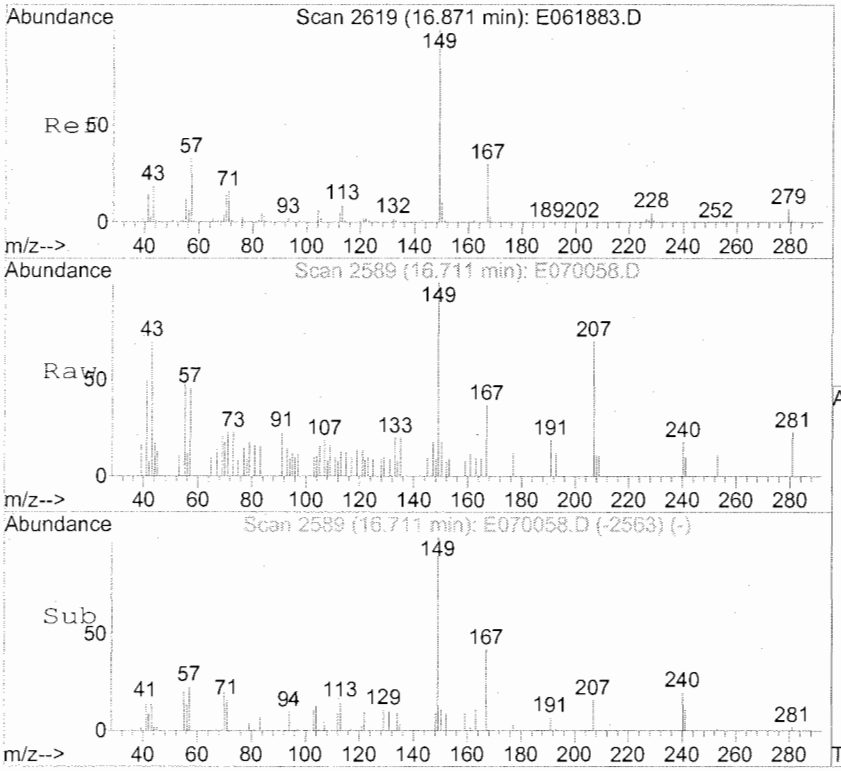


#68
Di-n-butylphthalate
Concen: 0.35 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:149 Resp: 5167

Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.3	10.9
104	4.5	4.6	7.0#

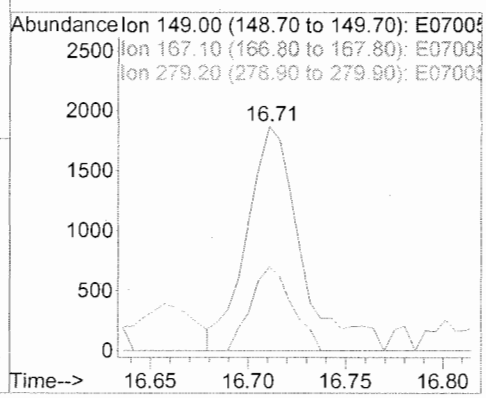


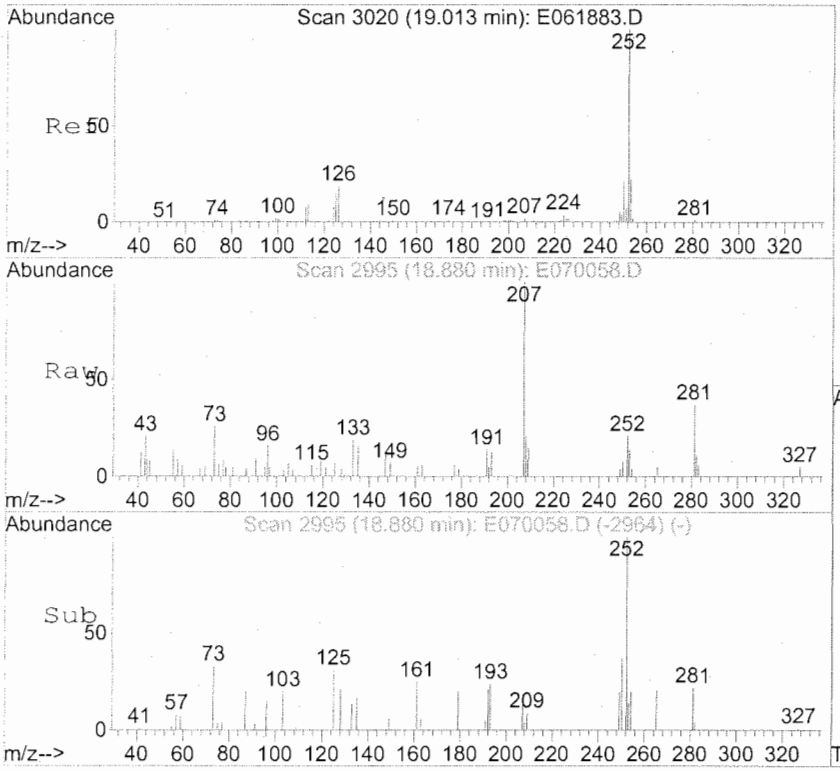


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.54 mg/L
RT: 16.71 min Scan# 2589
Delta R.T. -0.16 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:149 Resp: 3611

Ion	Ratio	Lower	Upper
149	100		
167	28.8	25.0	37.6
279	0.0	6.2	9.2#

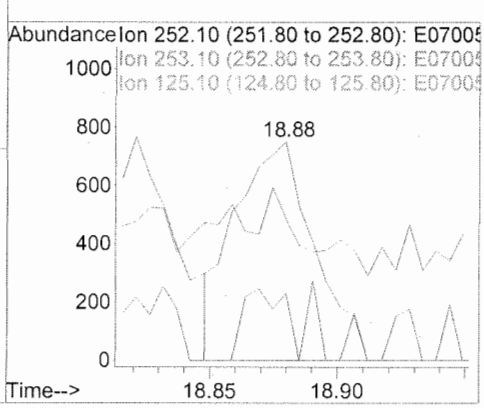


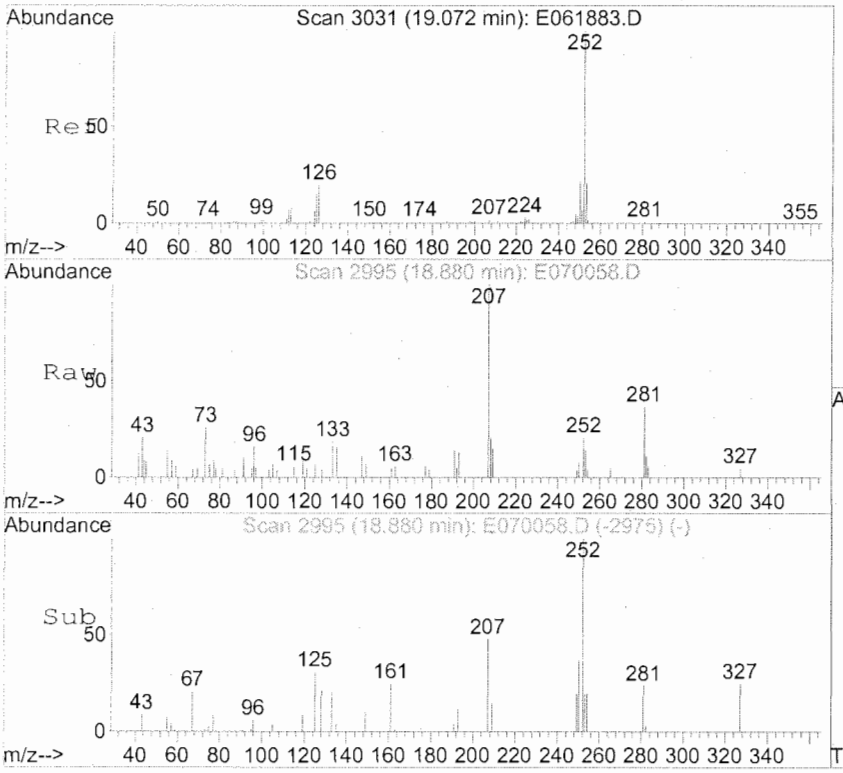


#82
Benzo(b)fluoranthene
Concen: 0.29 mg/L
RT: 18.88 min Scan# 2995
Delta R.T. -0.13 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:252 Resp: 1621

Ion	Ratio	Lower	Upper
252	100		
253	10.9	17.7	26.5#
125	17.1	6.3	9.5#

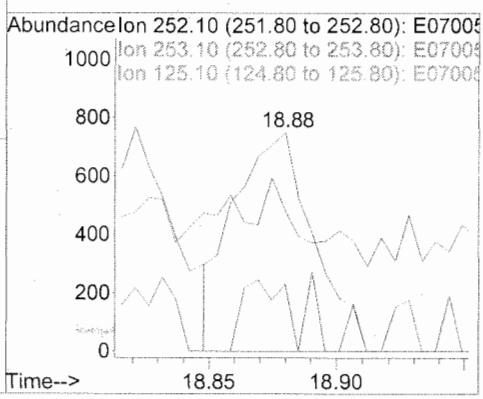


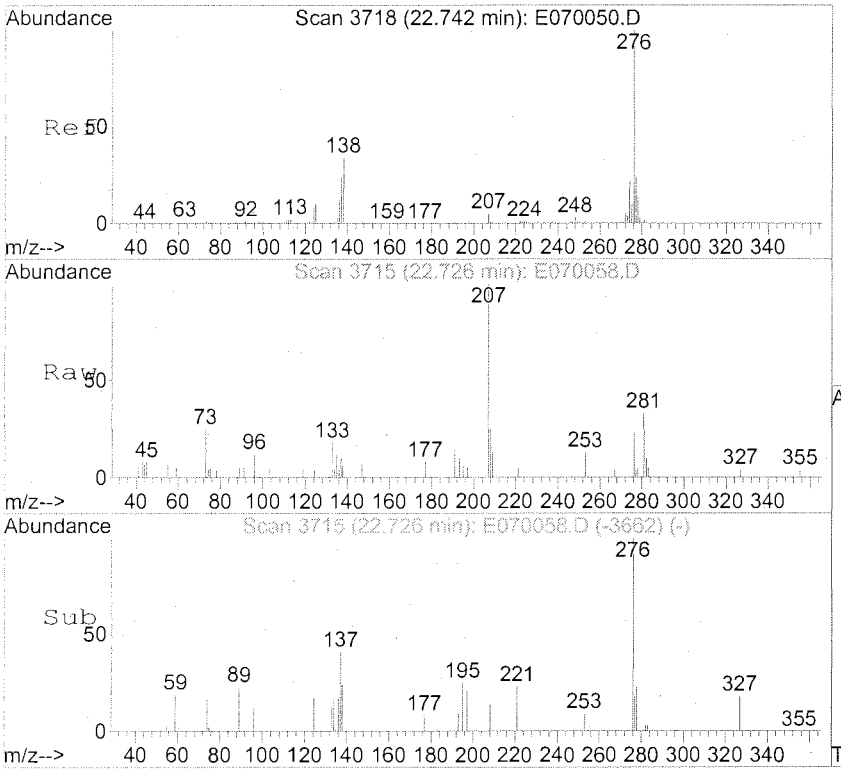


#83
Benzo(k)fluoranthene
Concen: 0.30 mg/L
RT: 18.88 min Scan# 2995
Delta R.T. -0.19 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:252 Resp: 1621

Ion	Ratio	Lower	Upper
252	100		
253	7.7	17.2	25.8#
125	17.1	6.2	9.4#

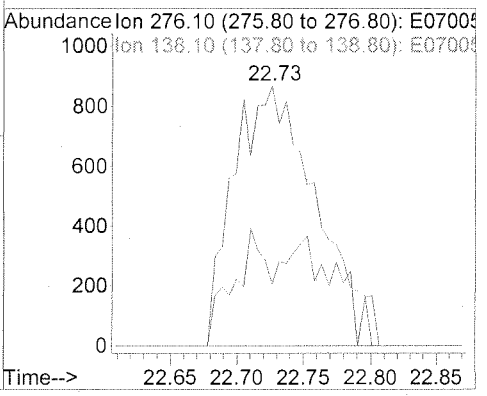


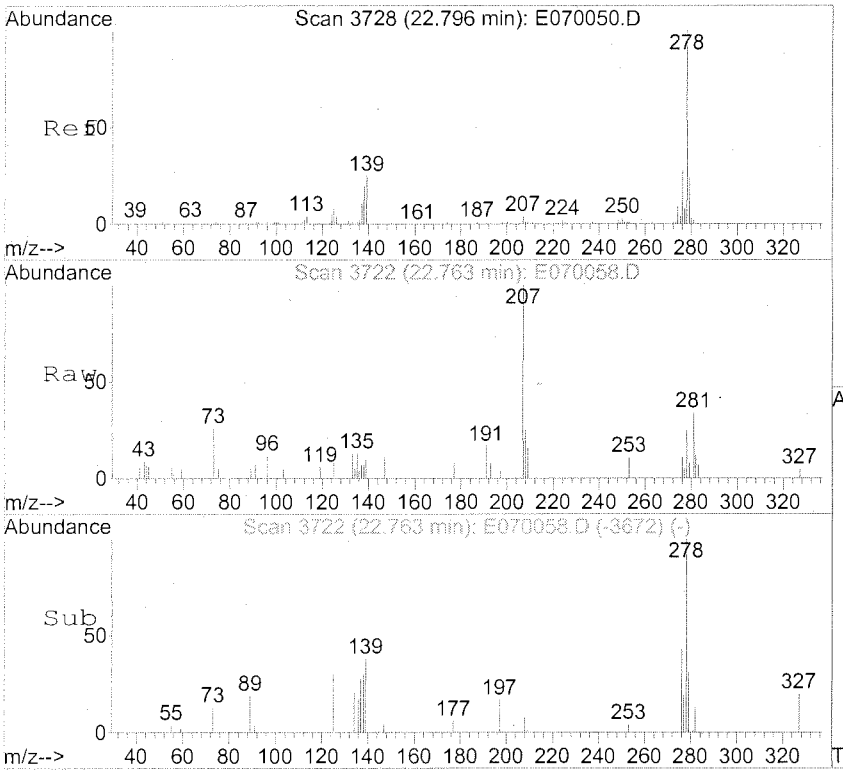


#85
Indeno(1,2,3-c,d)pyrene
Concen: 1.03 mg/L
RT: 22.73 min Scan# 3715
Delta R.T. -0.02 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:276 Resp: 3708

Ion	Ratio	Lower	Upper
276	100		
138	18.6	25.4	38.0#

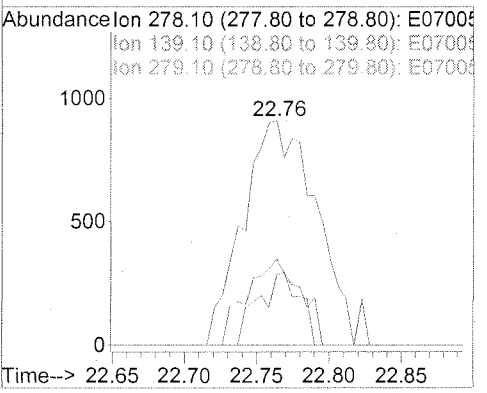


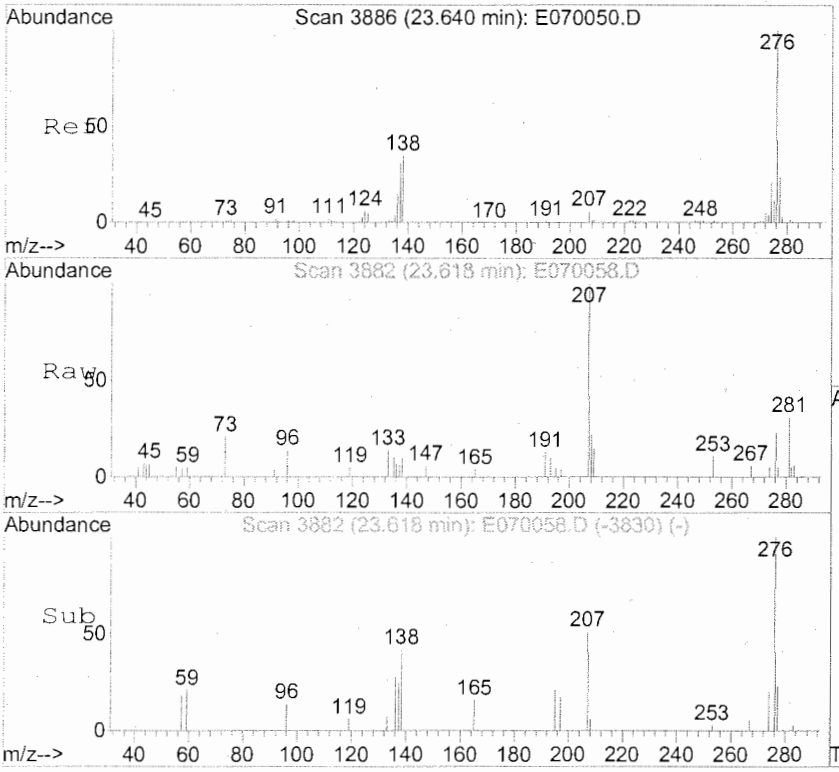


#86
Dibenz(a,h)anthracene
Concen: 1.04 mg/L
RT: 22.76 min Scan# 3722
Delta R.T. -0.03 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:278 Resp: 3219

Ion	Ratio	Lower	Upper
278	100		
139	28.0	18.0	27.0#
279	18.3	19.4	29.0#

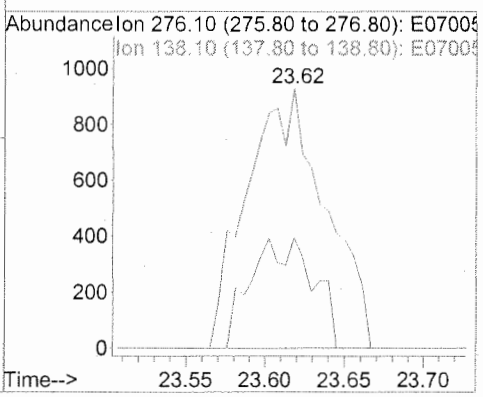




#87
Benzo(g,h,i)perylene
Concen: 1.07 mg/L
RT: 23.62 min Scan# 3882
Delta R.T. -0.02 min
Lab File: E070058.D
Acq: 18 Jan 2007 5:59 pm

Tgt Ion:276 Resp: 3183

Ion	Ratio	Lower	Upper
276	100		
138	19.8	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/10/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76113	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070059.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 18:31	**Quant Date:**	01/19/2007 08:53	**Vial:**	12
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-006			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	130718	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	521980	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	295893	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	459968	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	261153	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	169052	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	174159	41.85	84	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	240886	44.66	89	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	212991	48.29	97	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	445332	47.73	95	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	47820	43.34	87	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	354453	48.56	97	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0d		0.41	U	
1	N-Nitrosodimethylamine				42	0d		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070059.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 18:31	**Quant Date:**	01/19/2007 08:53	**Vial:**	12
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-006			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	2137	0.7700	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0**d**		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.71	-0.01	0.00	149	2702	0.2900	0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

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B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070059.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 18:31	**Quant Date:**	01/19/2007 08:53	**Vial:**	12
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-006			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.87	-0.01	0.00	149	4900	0.3500	0.33	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate				149	0**d**		0.30	U	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070059.D Vial: 12
Acq On : 18 Jan 2007 6:31 pm Operator: GJ
Sample : D0700056-006 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:51:05 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	130718	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	521980	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	295893	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	459968	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	261153	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	169052	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	174159	41.85	mg/L	-0.06
Spiked Amount 50.000			Recovery =	83.70%		
7) Phenol-d5	5.81	99	240886	44.66	mg/L	-0.06
Spiked Amount 50.000			Recovery =	89.32%		
23) Nitrobenzene-d5	7.03	82	212991	48.29	mg/L	-0.08
Spiked Amount 50.000			Recovery =	96.58%		
41) 2-Fluorobiphenyl	9.30	172	445332	47.73	mg/L	-0.09
Spiked Amount 50.000			Recovery =	95.46%		
61) 2,4,6-Tribromophenol	11.17	330	47820	43.34	mg/L	-0.10
Spiked Amount 50.000			Recovery =	86.68%		
73) Terphenyl-d14	14.55	244	354453	48.56	mg/L	-0.13
Spiked Amount 50.000			Recovery =	97.12%		
Target Compounds						Qvalue
28) Benzoic acid	7.54	122	2137	0.77	mg/L #	85
54) Diethylphthalate	10.71	149	2702	0.29	mg/L	97
67) Carbazole	12.29	167	138	Below Cal	#	59
68) Di-n-butylphthalate	12.87	149	4900	0.35	mg/L #	94

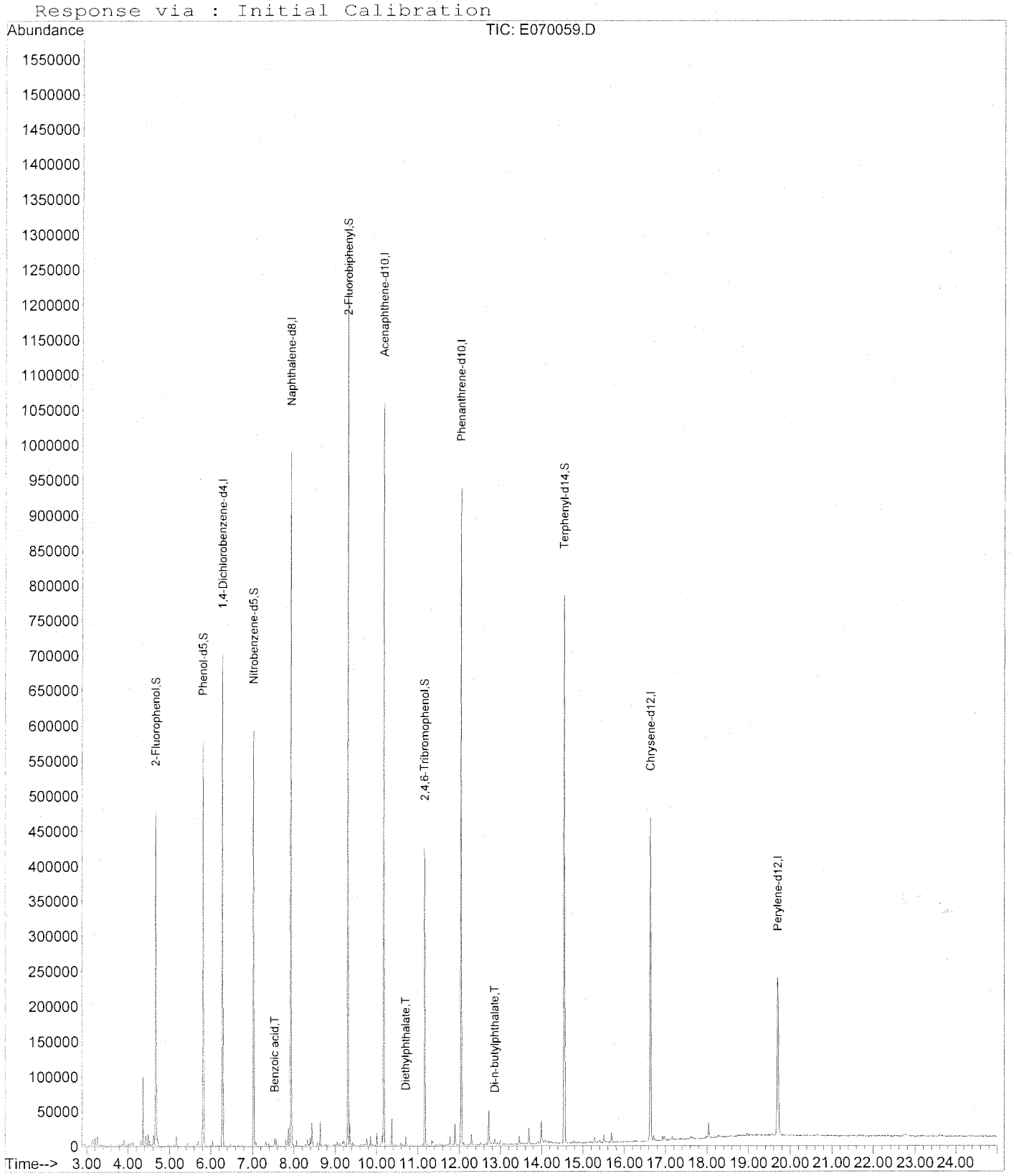
CJ 1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E070059.D BA061226.M Fri Jan 19 08:53:08 2007 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070059.D Vial: 12
Acq On : 18 Jan 2007 6:31 pm Operator: GJ
Sample : D0700056-006 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:53 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070059.D Vial: 12
Acq On : 18 Jan 2007 6:31 pm Operator: GJ
Sample : D0700056-006 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:51:05 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

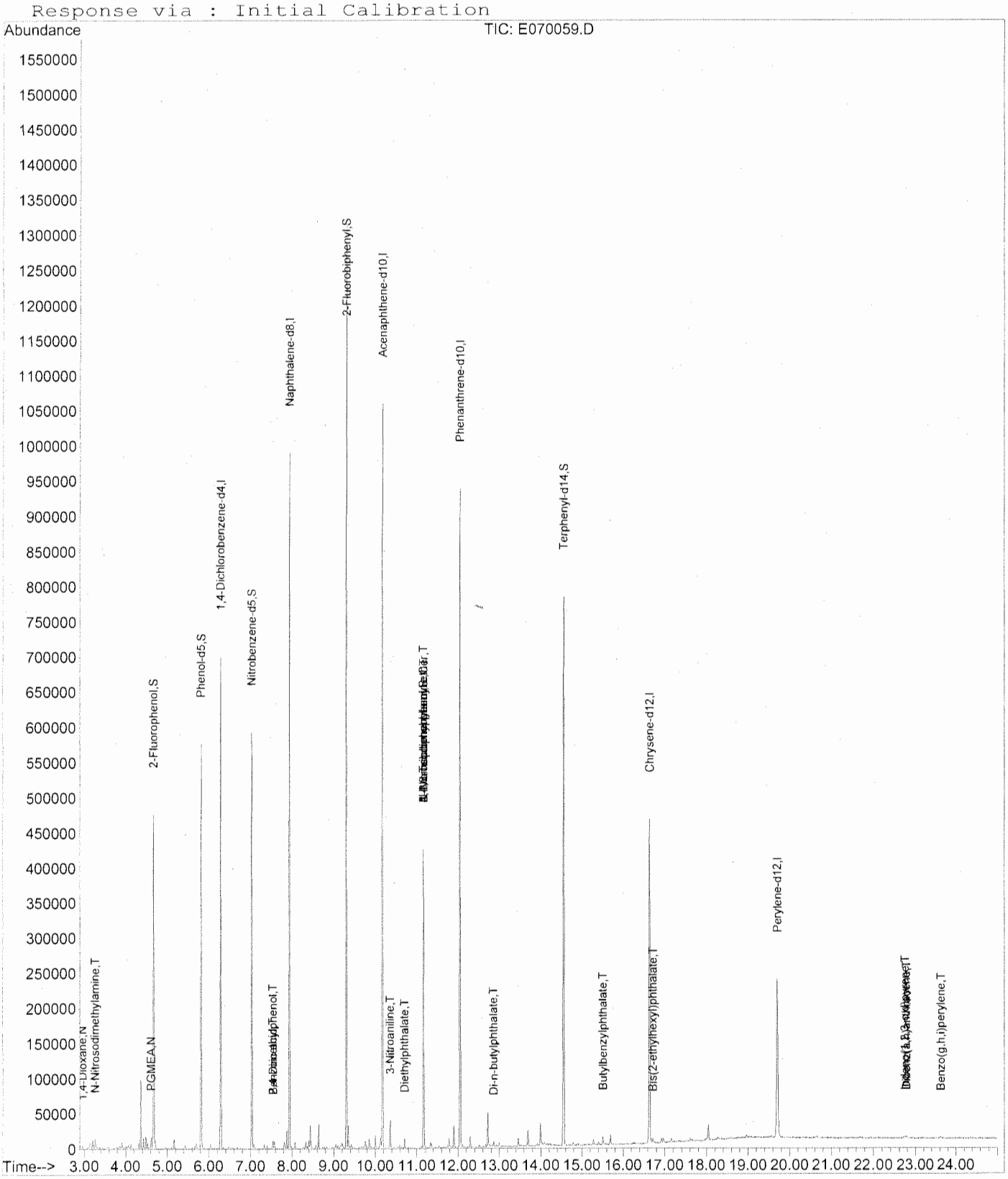
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	130718	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	521980	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	295893	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	459968	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	261153	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	169052	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	174159	41.85	mg/L	-0.06
Spiked Amount 50.000			Recovery =	83.70%		
7) Phenol-d5	5.81	99	240886	44.66	mg/L	-0.06
Spiked Amount 50.000			Recovery =	89.32%		
23) Nitrobenzene-d5	7.03	82	212991	48.29	mg/L	-0.08
Spiked Amount 50.000			Recovery =	96.58%		
41) 2-Fluorobiphenyl	9.30	172	445332	47.73	mg/L	-0.09
Spiked Amount 50.000			Recovery =	95.46%		
61) 2,4,6-Tribromophenol	11.17	330	47820	43.34	mg/L	-0.10
Spiked Amount 50.000			Recovery =	86.68%		
73) Terphenyl-d14	14.55	244	354453	48.56	mg/L	-0.13
Spiked Amount 50.000			Recovery =	97.12%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	518	0.27	mg/L #	58
3) N-Nitrosodimethylamine	3.26	42	552	0.22	mg/L #	1
5) PGMEA	4.62	43	1947	0.22	mg/L #	39
27) 2,4-Dimethylphenol	7.54	122	2137	0.51	mg/L #	1
28) Benzoic acid	7.54	122	2137	0.77	mg/L #	85
47) 3-Nitroaniline	10.36	138	198	1.89	mg/L #	1
54) Diethylphthalate	10.71	149	2702	0.29	mg/L	97
59) N-Nitrosodiphenylamine	11.17	169	2130	0.32	mg/L #	40
62) 4-Bromophenyl phenyl ether	11.17	248	2836	1.17	mg/L #	1
67) Carbazole	12.29	167	138	Below Cal	#	59
68) Di-n-butylphthalate	12.87	149	4900	0.35	mg/L #	94
74) Butylbenzylphthalate	15.51	149	1198	0.24	mg/L #	58
78) Bis(2-ethylhexyl)phthalate	16.72	149	3177	0.48	mg/L #	96
85) Indeno(1,2,3-c,d)pyrene	22.74	276	3430	0.88	mg/L #	62
86) Dibenz(a,h)anthracene	22.77	278	2757	0.82	mg/L #	90
87) Benzo(g,h,i)perylene	23.63	276	2814	0.87	mg/L	94

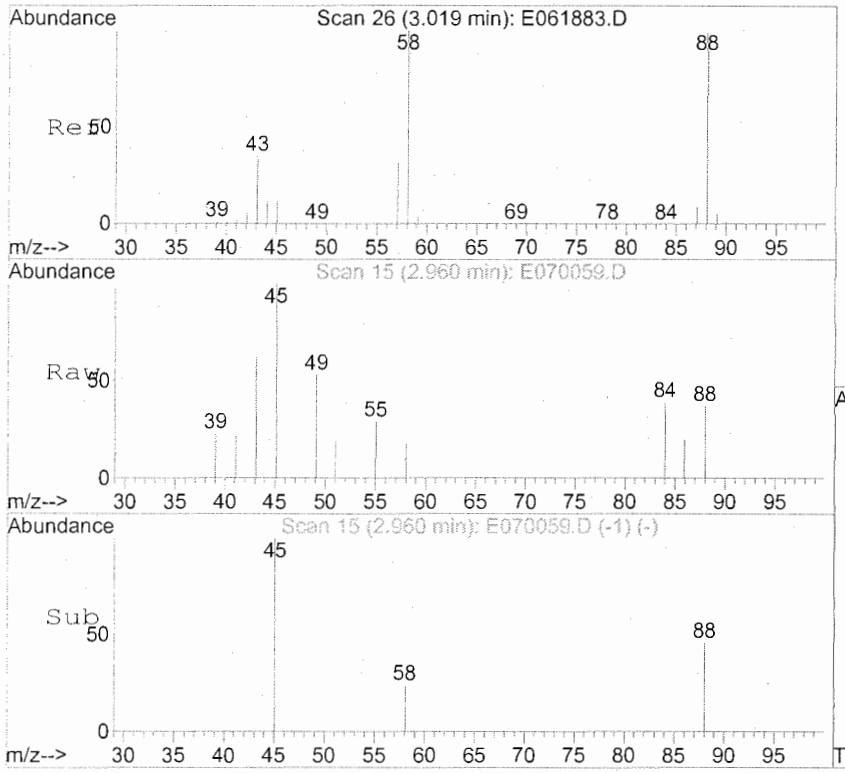
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070059.D Vial: 12
Acq On : 18 Jan 2007 6:31 pm Operator: GJ
Sample : D0700056-006 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:51 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

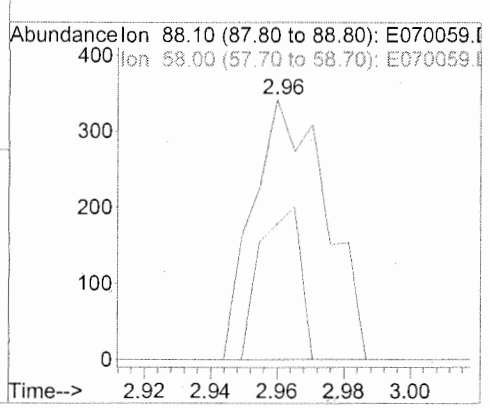


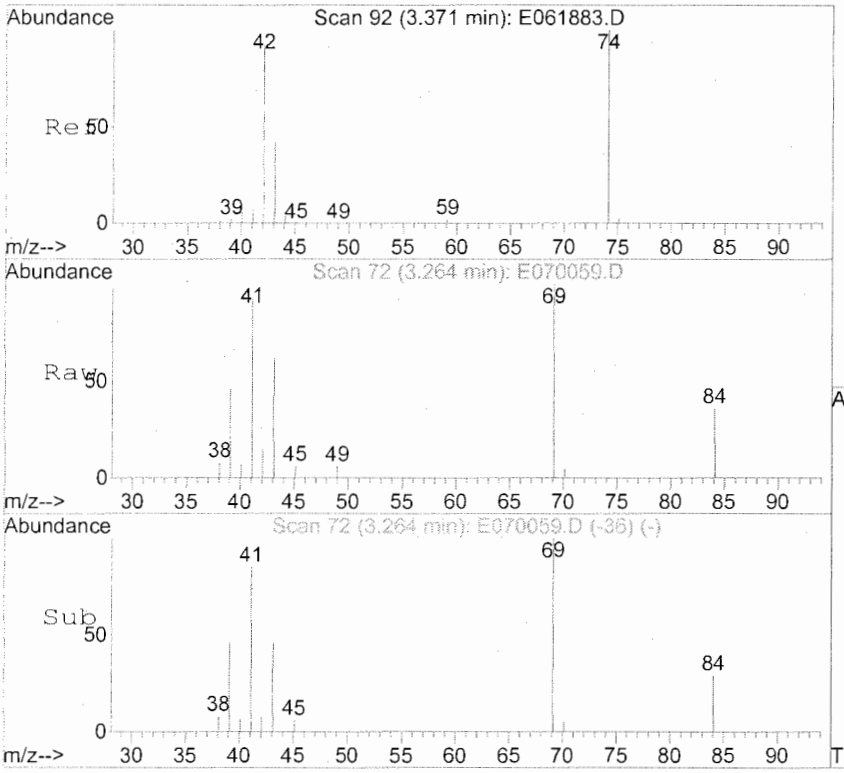


#2
1,4-Dioxane
Concen: 0.27 mg/L
RT: 2.96 min Scan# 15
Delta R.T. -0.06 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion: 88 Resp: 518

Ion	Ratio	Lower	Upper
88	100		
58	33.0	53.5	80.3#

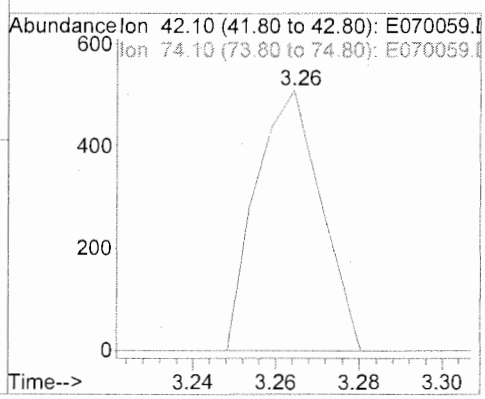


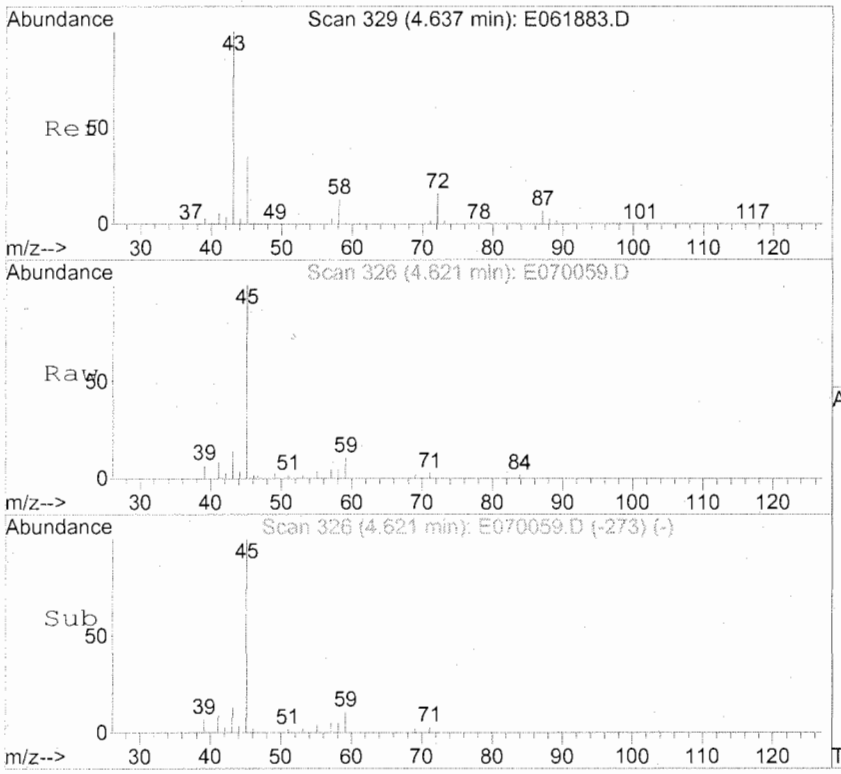


#3
N-Nitrosodimethylamine
Concen: 0.22 mg/L
RT: 3.26 min Scan# 72
Delta R.T. -0.11 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion: 42 Resp: 552

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

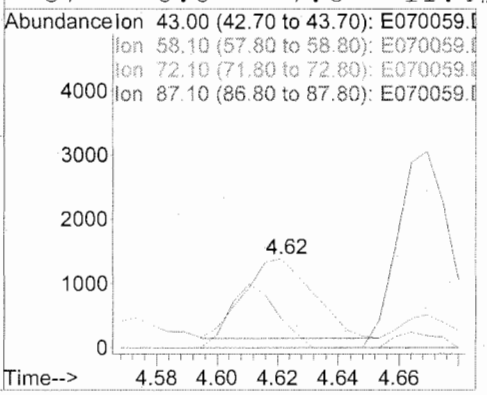


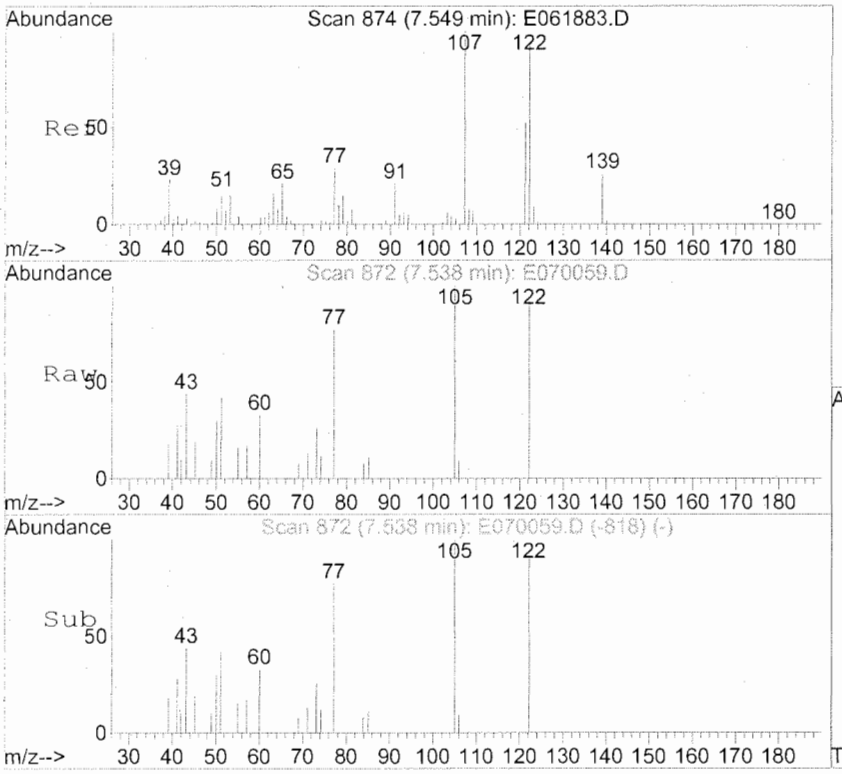


#5
PGMEA
Concen: 0.22 mg/L
RT: 4.62 min Scan# 326
Delta R.T. -0.02 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion: 43 Resp: 1947

Ion	Ratio	Lower	Upper
43	100		
58	55.9	9.7	14.5#
72	0.0	20.4	30.6#
87	0.0	7.6	11.4#

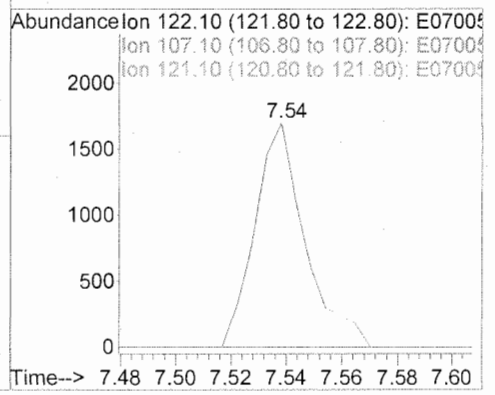


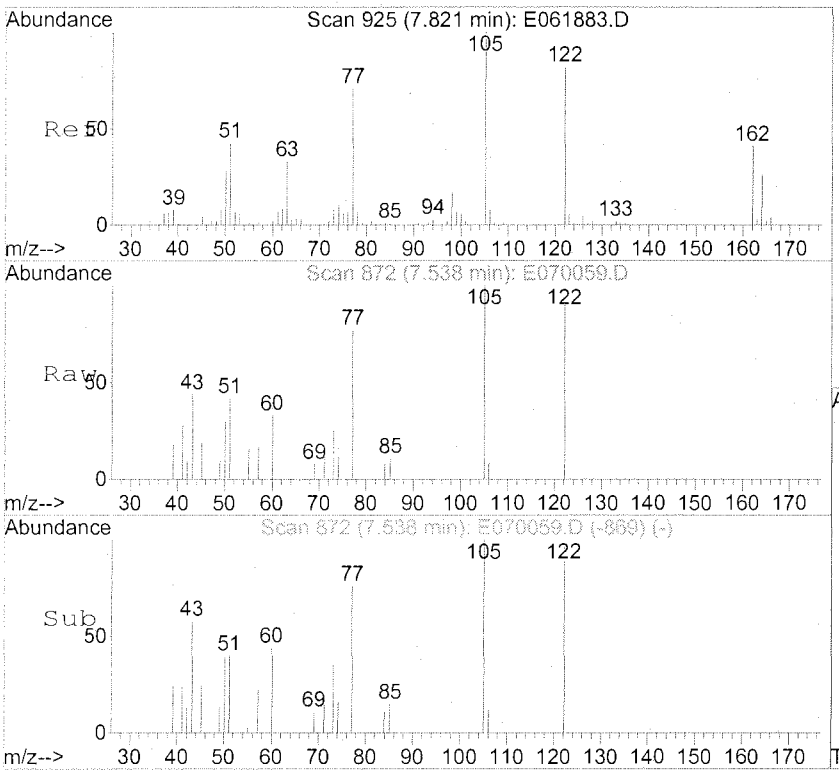


#27
2,4-Dimethylphenol
Concen: 0.51 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:122 Resp: 2137

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

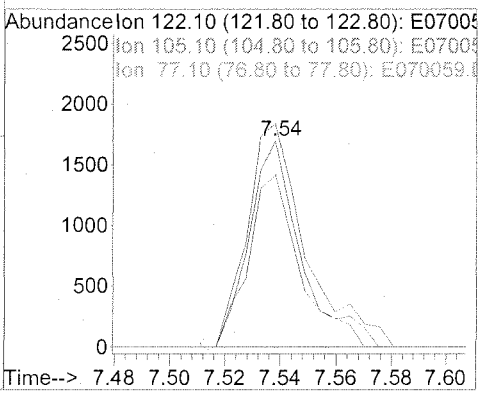


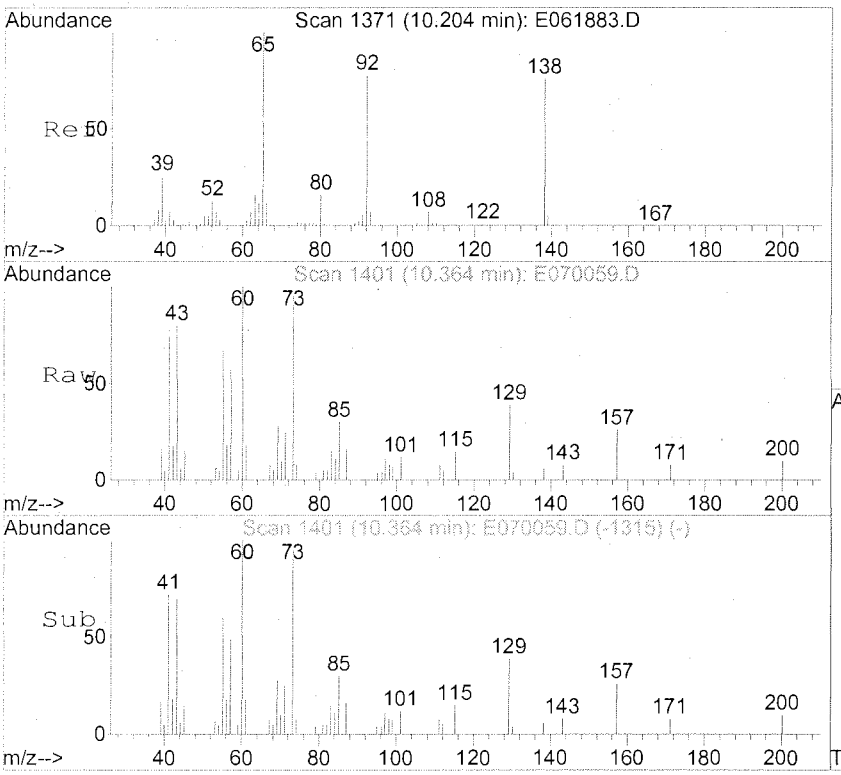


#28
Benzoic acid
Concen: 0.77 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.28 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:122 Resp: 2137

Ion	Ratio	Lower	Upper
122	100		
105	126.7	110.2	165.2
77	89.5	89.8	134.8#

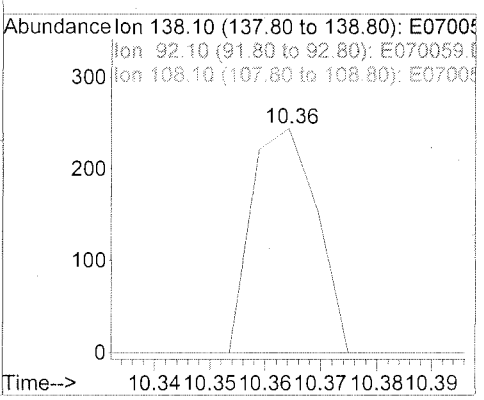


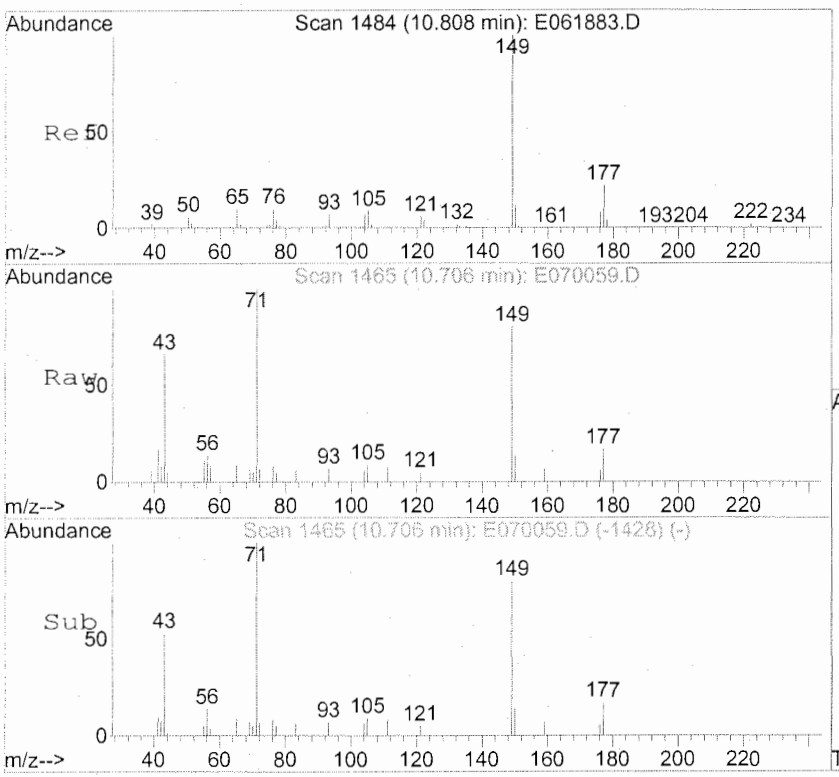


#47
3-Nitroaniline
Concen: 1.89 mg/L
RT: 10.36 min Scan# 1401
Delta R.T. 0.16 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:138 Resp: 198

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

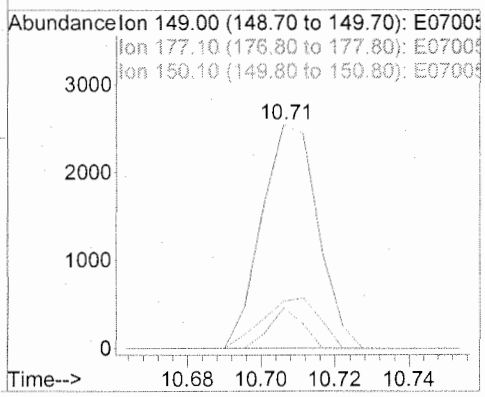


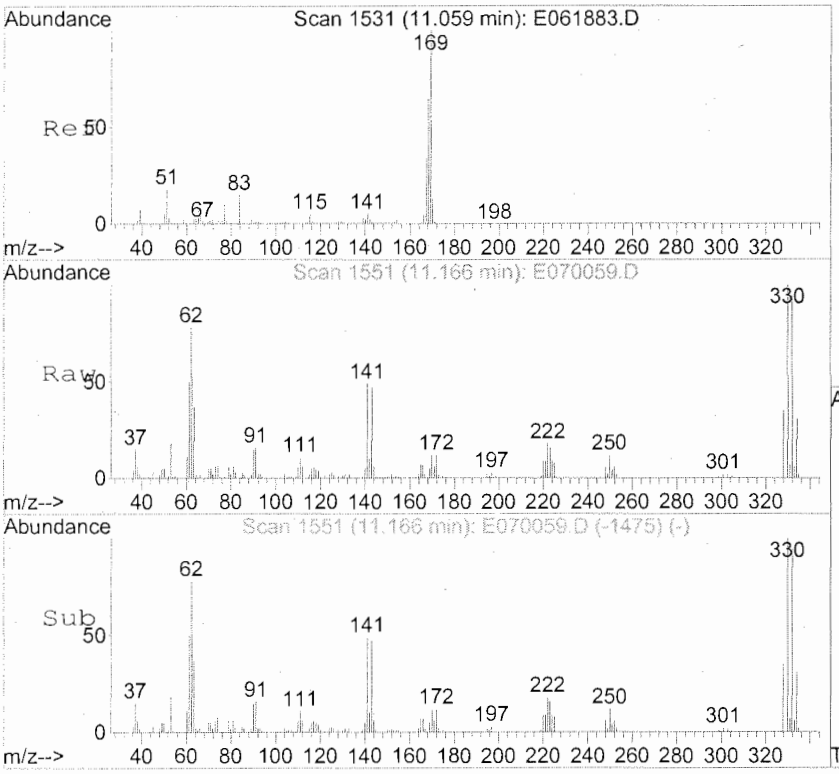


#54
Diethylphthalate
Concen: 0.29 mg/L
RT: 10.71 min Scan# 1465
Delta R.T. -0.10 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:149 Resp: 2702

Ion	Ratio	Lower	Upper
149	100		
177	22.6	19.0	28.6
150	10.7	10.0	15.0

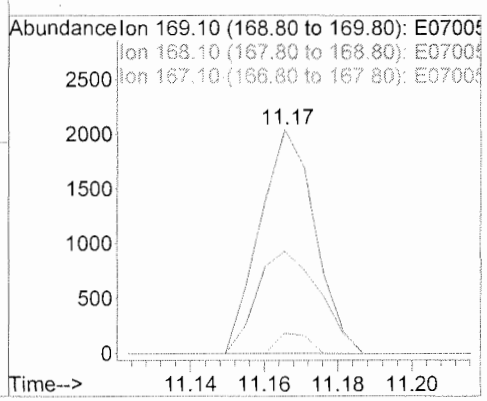


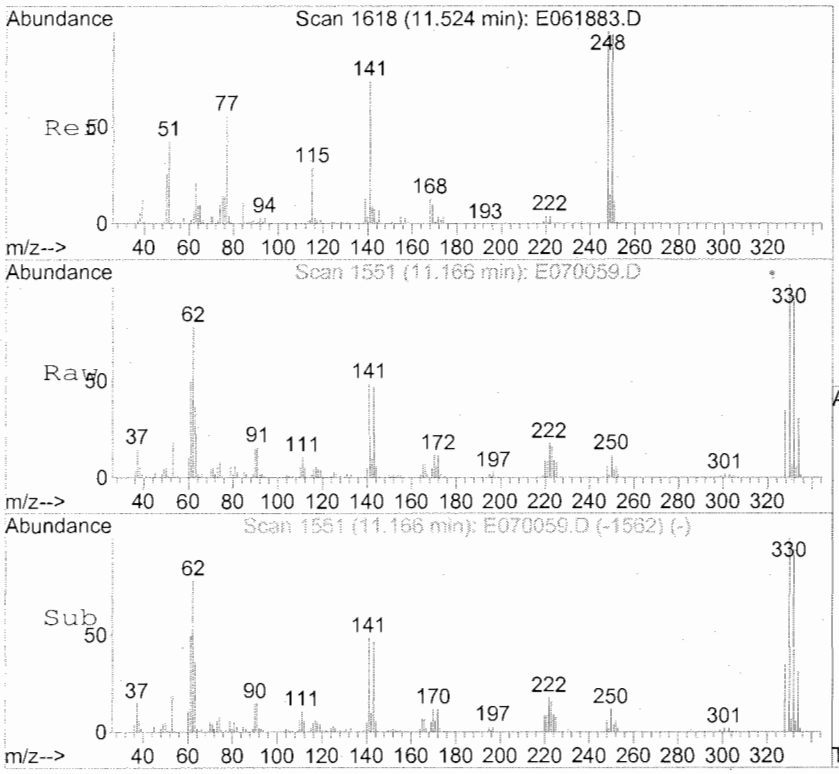


#59
N-Nitrosodiphenylamine
Concen: 0.32 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:169 Resp: 2130

Ion	Ratio	Lower	Upper
169	100		
168	5.3	50.8	76.2#
167	51.6	27.0	40.4#

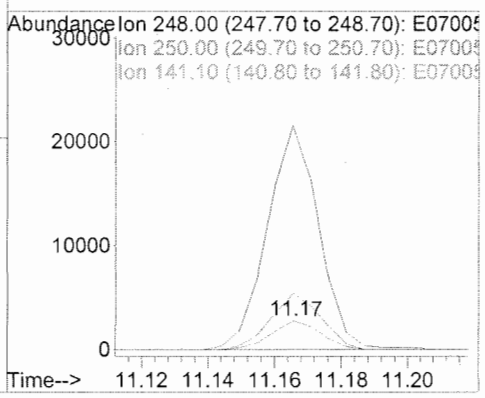


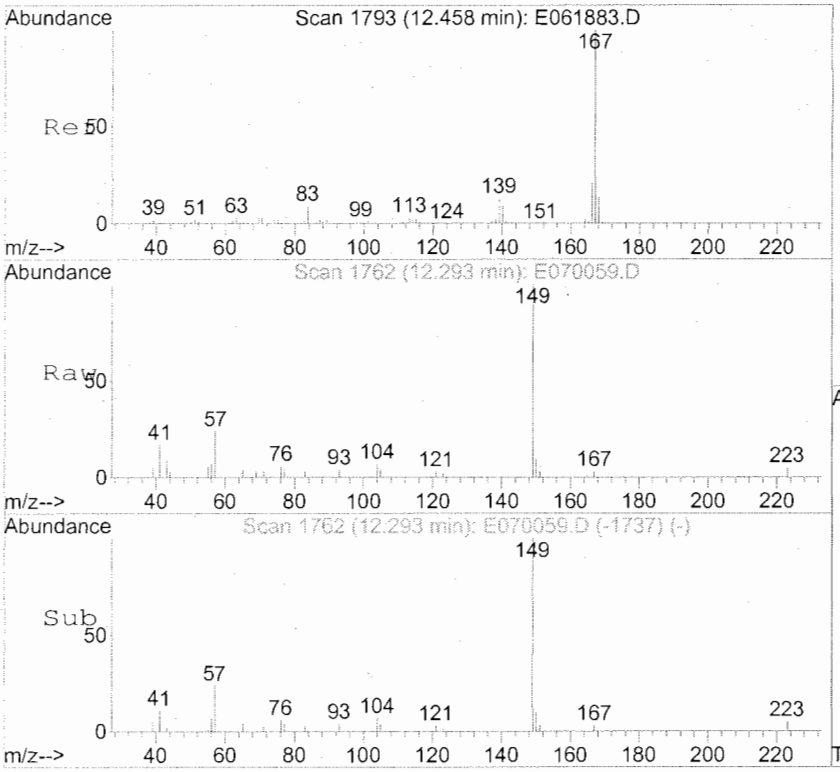


#62
4-Bromophenyl phenyl ether
Concen: 1.17 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:248 Resp: 2836

Ion	Ratio	Lower	Upper
248	100		
250	199.7	79.0	118.4#
141	814.6	64.3	96.5#

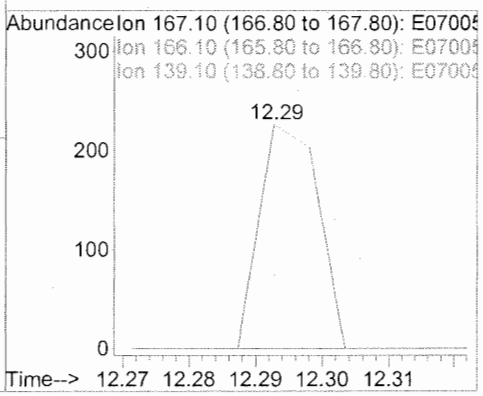


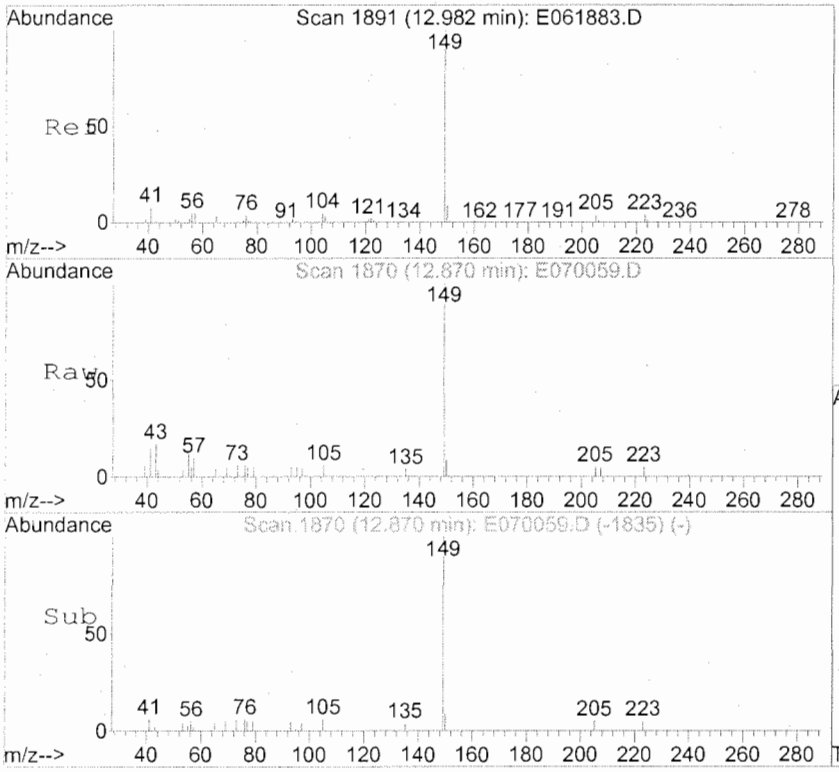


#67
Carbazole
Concen: Below Cal
RT: 12.29 min Scan# 1762
Delta R.T. -0.17 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:167 Resp: 138

Ion	Ratio	Lower	Upper
167	100		
166	0.0	17.2	25.8#
139	0.0	10.6	16.0#

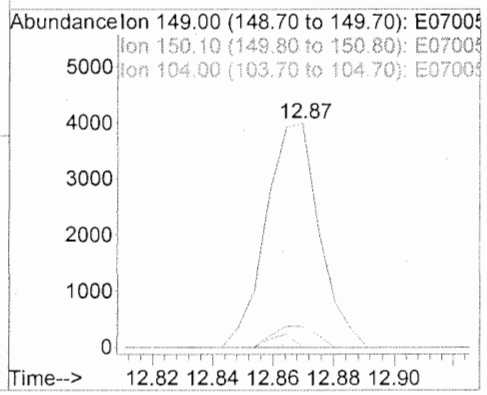


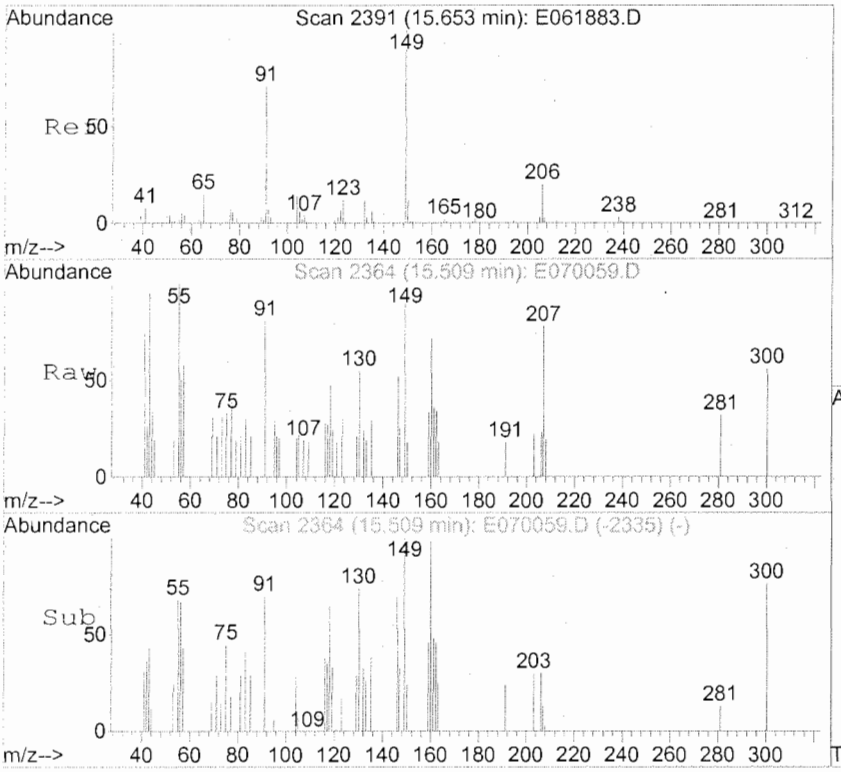


#68
Di-n-butylphthalate
Concen: 0.35 mg/L
RT: 12.87 min Scan# 1870
Delta R.T. -0.11 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:149 Resp: 4900

Ion	Ratio	Lower	Upper
149	100		
150	7.6	7.3	10.9
104	2.6	4.6	7.0#

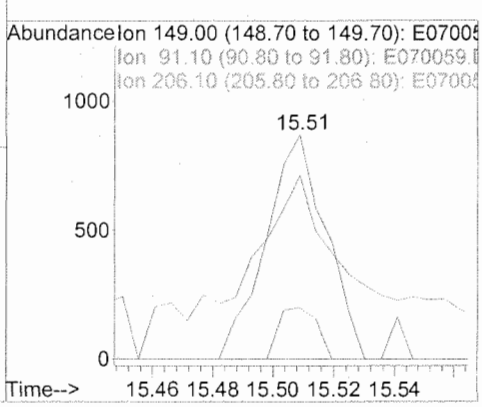


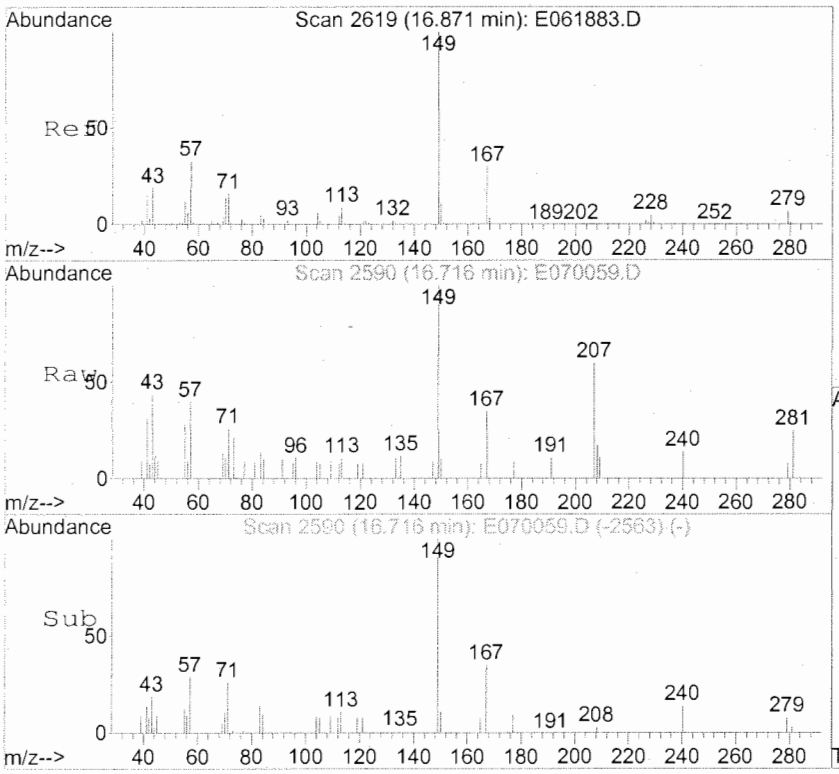


#74
Butylbenzylphthalate
Concen: 0.24 mg/L
RT: 15.51 min Scan# 2364
Delta R.T. -0.14 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:149 Resp: 1198

Ion	Ratio	Lower	Upper
149	100		
91	116.4	59.4	89.0#
206	14.7	19.0	28.6#

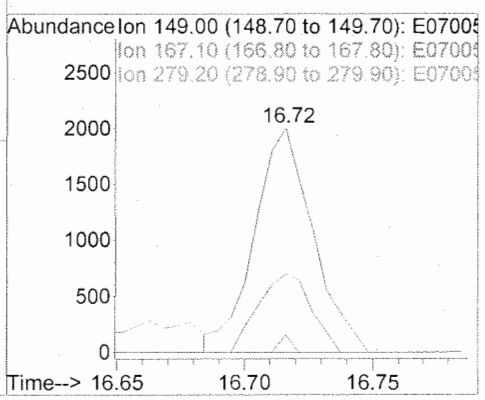


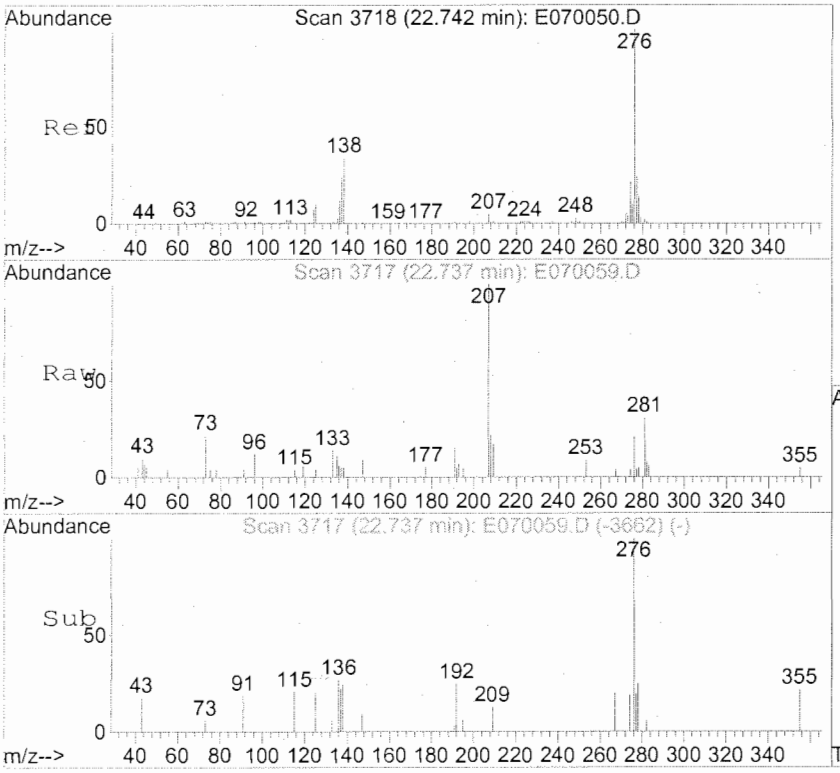


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.48 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:149 Resp: 3177

Ion	Ratio	Lower	Upper
149	100		
167	31.6	25.0	37.6
279	1.5	6.2	9.2#

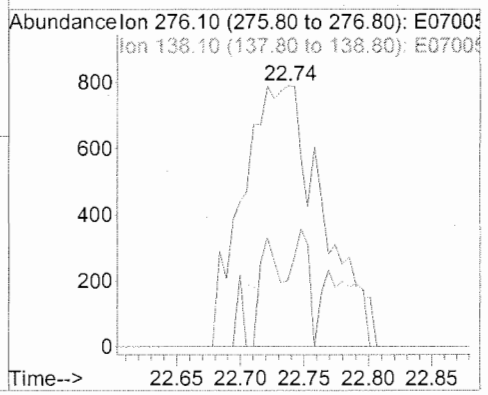


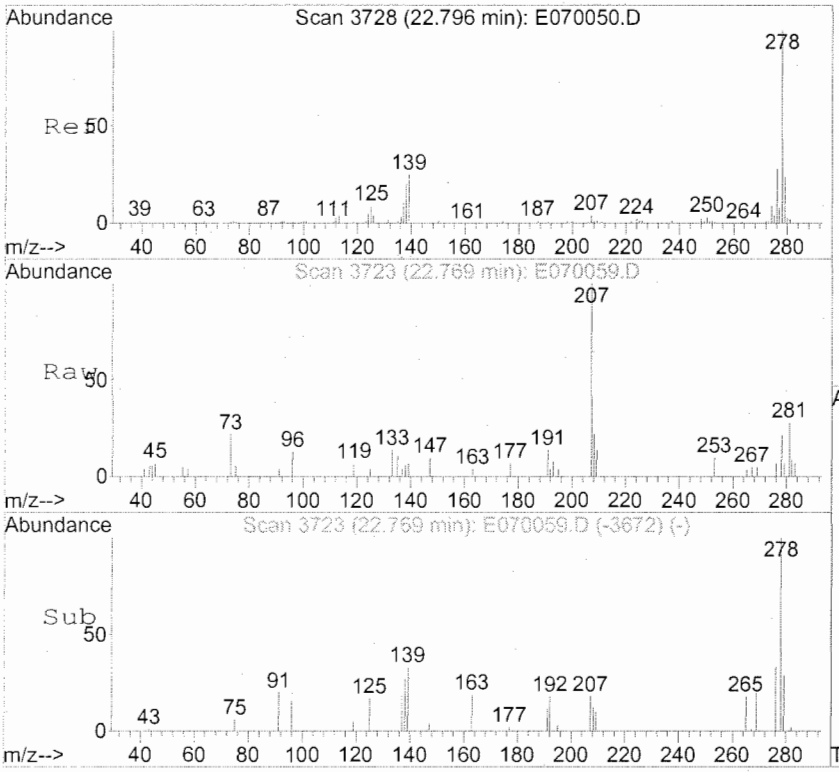


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.88 mg/L
RT: 22.74 min Scan# 3717
Delta R.T. -0.01 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:276 Resp: 3430

Ion	Ratio	Lower	Upper
276	100		
138	10.6	25.4	38.0#

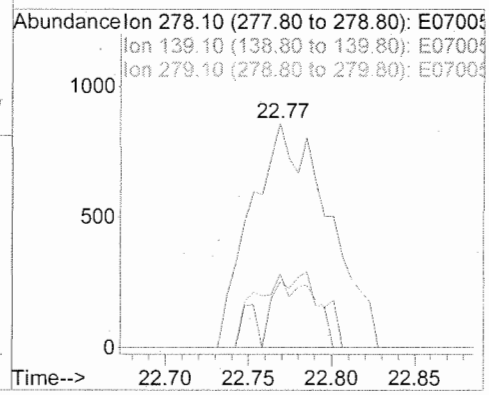


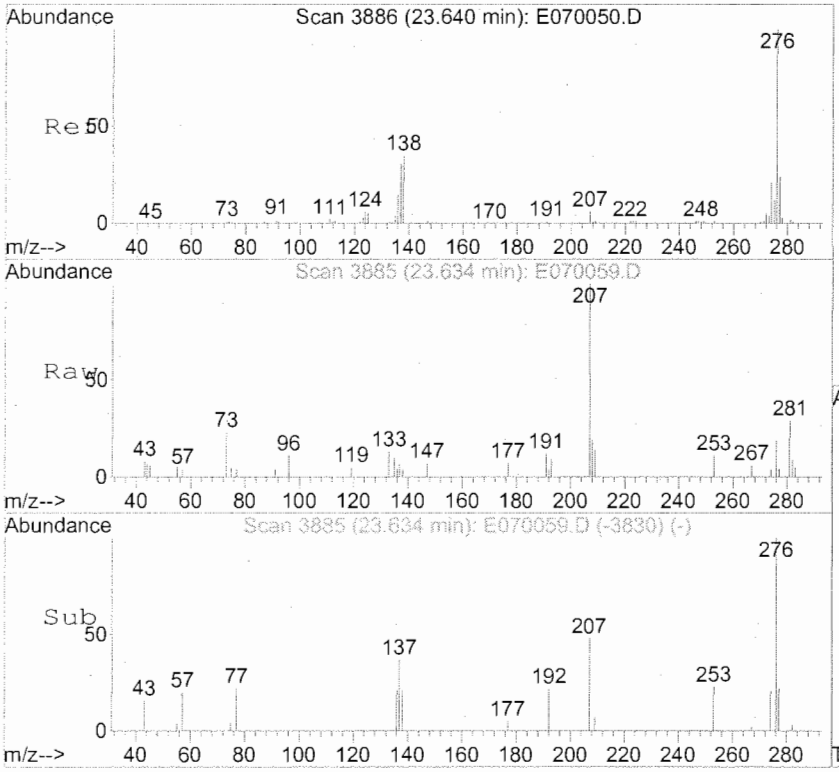


#86
Dibenz(a,h)anthracene
Concen: 0.82 mg/L
RT: 22.77 min Scan# 3723
Delta R.T. -0.03 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:278 Resp: 2757

Ion	Ratio	Lower	Upper
278	100		
139	26.3	18.0	27.0
279	18.0	19.4	29.0#

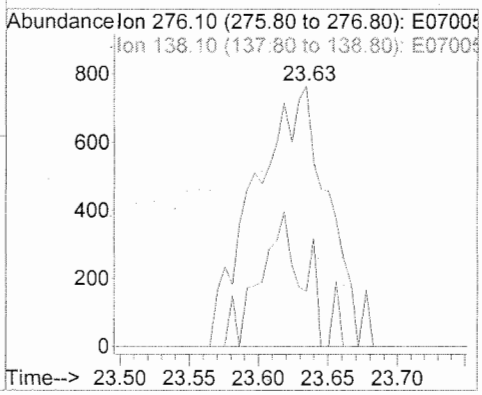




#87
Benzo(g,h,i)perylene
Concen: 0.87 mg/L
RT: 23.63 min Scan# 3885
Delta R.T. -0.01 min
Lab File: E070059.D
Acq: 18 Jan 2007 6:31 pm

Tgt Ion:276 Resp: 2814

Ion	Ratio	Lower	Upper
276	100		
138	29.4	26.2	39.2



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/10/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76114	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070060.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 19:04	**Quant Date:**	01/19/2007 08:54	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-007			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	108603	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	422708	40.00	OK
3	Acenaphthene-d10	10.17	-0.01?	164	235427	40.00	OK
4	Phenanthrene-d10	12.04	-0.01?	188	358933	40.00	OK
5	Chrysene-d12	16.63	-0.02?	240	199870	40.00	OK
6	Perylene-d12	19.69	-0.02?	264	123297	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	130631	37.78	76	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	181864	40.58	81	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	164177	45.97	92	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	338826	45.64	91	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	33937	39.42	79	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	212779	38.09	76	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.41	U	
1	N-Nitrosodimethylamine				42	0**d**		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Mannal integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070060.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 19:04	**Quant Date:**	01/19/2007 08:54	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-007			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid	7.53	-0.20	-0.03	122	1445	0.6400	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070060.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 19:04	**Quant Date:**	01/19/2007 08:54	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-007			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	3140	0.2900	0.28	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	2040	0.4000	0.38	J	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070060.D Vial: 13
Acq On : 18 Jan 2007 7:04 pm Operator: GJ
Sample : D0700056-007 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:53:33 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

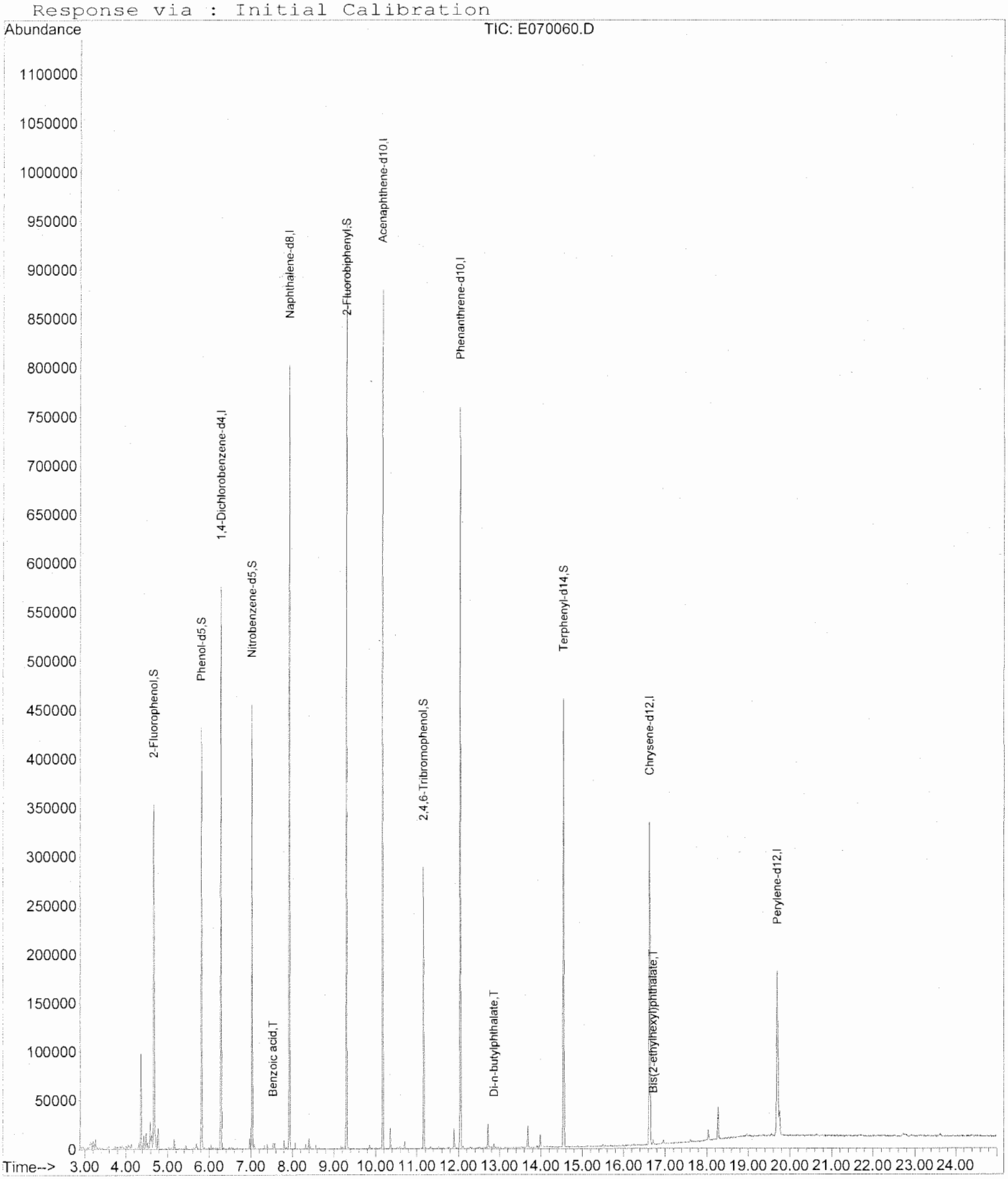
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	108603	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	422708	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	235427	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.04	188	358933	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	199870	40.00	mg/L	-0.16
80) Perylene-d12	19.69	264	123297	40.00	mg/L	-0.22
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	130631	37.78	mg/L	-0.06
Spiked Amount 50.000			Recovery = 75.56%			
7) Phenol-d5	5.81	99	181864	40.58	mg/L	-0.06
Spiked Amount 50.000			Recovery = 81.16%			
23) Nitrobenzene-d5	7.03	82	164177	45.97	mg/L	-0.08
Spiked Amount 50.000			Recovery = 91.94%			
41) 2-Fluorobiphenyl	9.30	172	338826	45.64	mg/L	-0.09
Spiked Amount 50.000			Recovery = 91.28%			
61) 2,4,6-Tribromophenol	11.17	330	33937	39.42	mg/L	-0.10
Spiked Amount 50.000			Recovery = 78.84%			
73) Terphenyl-d14	14.55	244	212779	38.09	mg/L	-0.14
Spiked Amount 50.000			Recovery = 76.18%			
Target Compounds						Qvalue
28) Benzoic acid	7.53	122	1445	0.64	mg/L #	83
68) Di-n-butylphthalate	12.86	149	3140	0.29	mg/L #	92
78) Bis(2-ethylhexyl)phthalate	16.72	149	2040	0.40	mg/L #	94

GJ 1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E070118\E070060.D Vial: 13
Acq On : 18 Jan 2007 7:04 pm Operator: GJ
Sample : D0700056-007 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:54 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070060.D Vial: 13
Acq On : 18 Jan 2007 7:04 pm Operator: GJ
Sample : D0700056-007 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:53:33 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

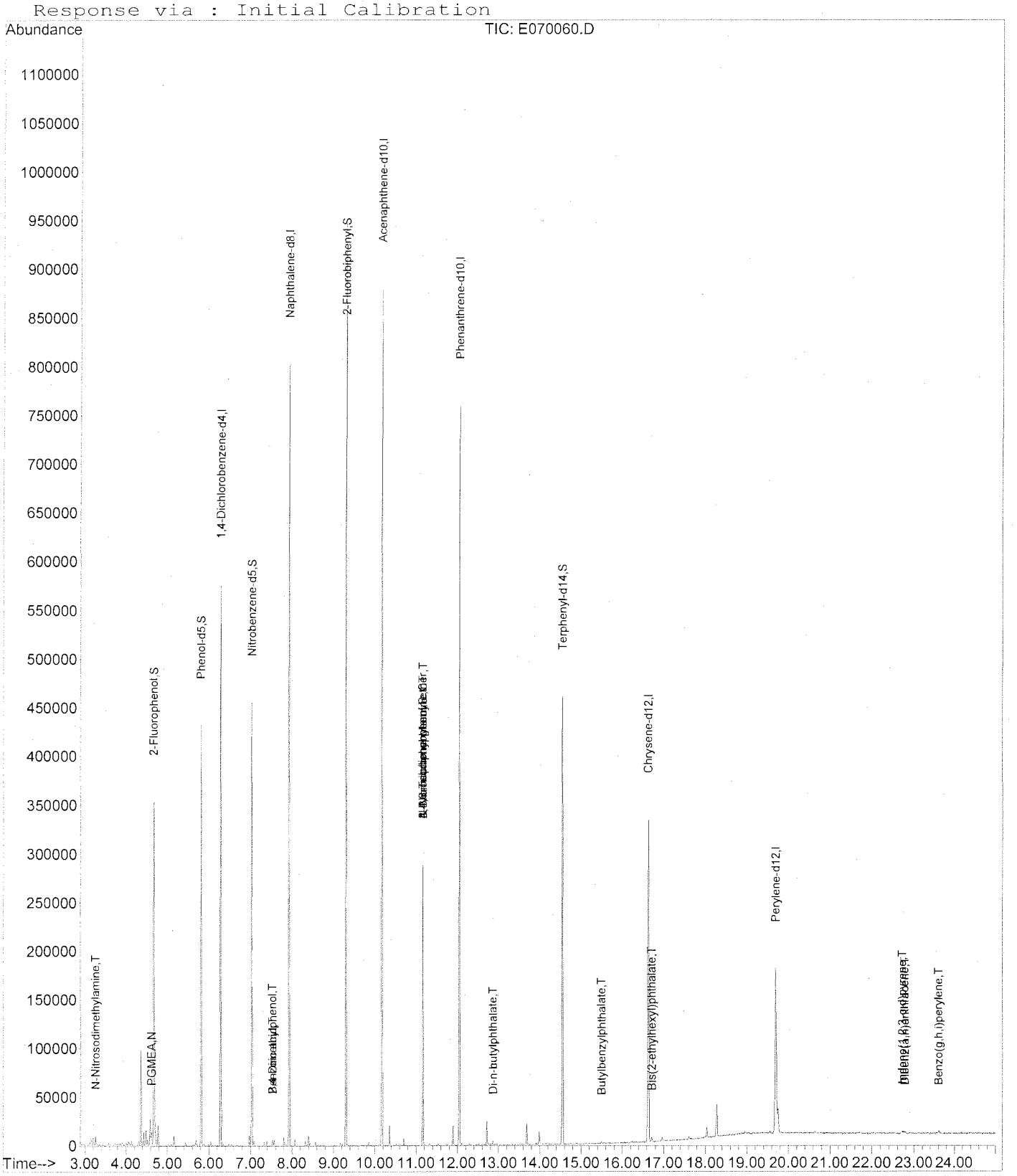
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	108603	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	422708	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	235427	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.04	188	358933	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	199870	40.00	mg/L	-0.16
80) Perylene-d12	19.69	264	123297	40.00	mg/L	-0.22
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	130631	37.78	mg/L	-0.06
Spiked Amount 50.000			Recovery =	75.56%		
7) Phenol-d5	5.81	99	181864	40.58	mg/L	-0.06
Spiked Amount 50.000			Recovery =	81.16%		
23) Nitrobenzene-d5	7.03	82	164177	45.97	mg/L	-0.08
Spiked Amount 50.000			Recovery =	91.94%		
41) 2-Fluorobiphenyl	9.30	172	338826	45.64	mg/L	-0.09
Spiked Amount 50.000			Recovery =	91.28%		
61) 2,4,6-Tribromophenol	11.17	330	33937	39.42	mg/L	-0.10
Spiked Amount 50.000			Recovery =	78.84%		
73) Terphenyl-d14	14.55	244	212779	38.09	mg/L	-0.14
Spiked Amount 50.000			Recovery =	76.18%		
Target Compounds						Qvalue
3) N-Nitrosodimethylamine	3.26	42	498	0.24	mg/L #	1
5) PGMEA	4.62	43	1869	0.25	mg/L #	46
27) 2,4-Dimethylphenol	7.53	122	1445	0.42	mg/L #	1
28) Benzoic acid	7.53	122	1445	0.64	mg/L #	83
59) N-Nitrosodiphenylamine	11.17	169	1478	0.29	mg/L #	43
62) 4-Bromophenyl phenyl ether	11.17	248	1948	1.03	mg/L #	1
68) Di-n-butylphthalate	12.86	149	3140	0.29	mg/L #	92
74) Butylbenzylphthalate	15.50	149	789	0.20	mg/L #	69
78) Bis(2-ethylhexyl)phthalate	16.72	149	2040	0.40	mg/L #	94
85) Indeno(1,2,3-c,d)pyrene	22.71	276	2316	0.81	mg/L	91
86) Dibenz(a,h)anthracene	22.77	278	2415	0.98	mg/L #	89
87) Benzo(g,h,i)perylene	23.60	276	1266	0.54	mg/L #	59

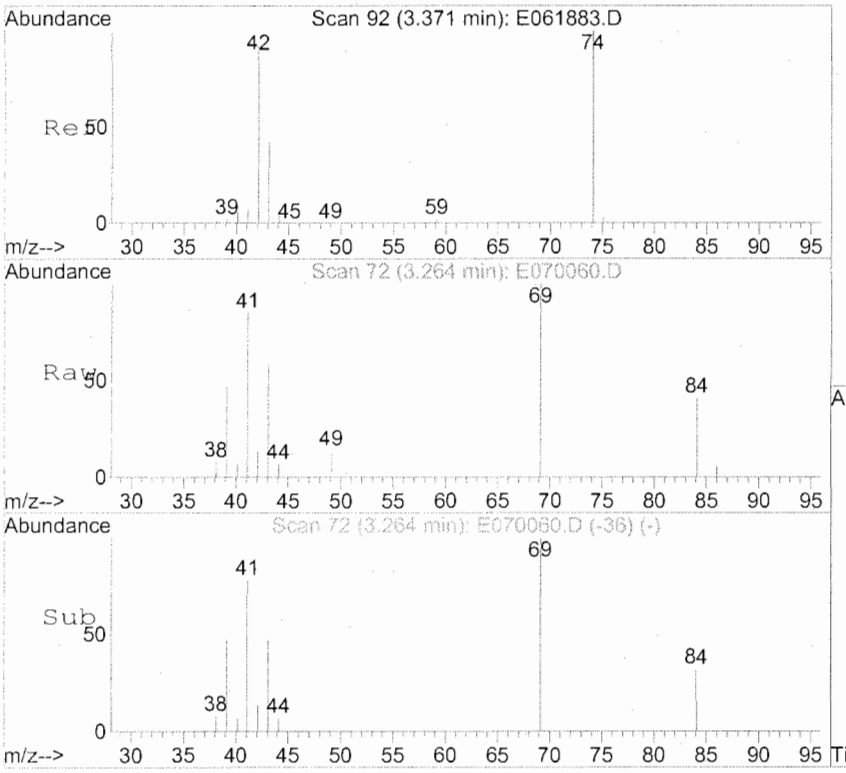
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070060.D Vial: 13
Acq On : 18 Jan 2007 7:04 pm Operator: GJ
Sample : D0700056-007 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:53 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

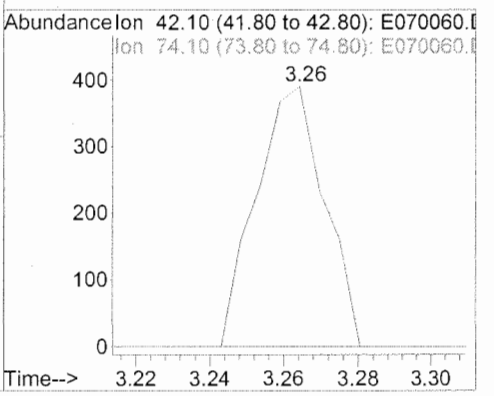


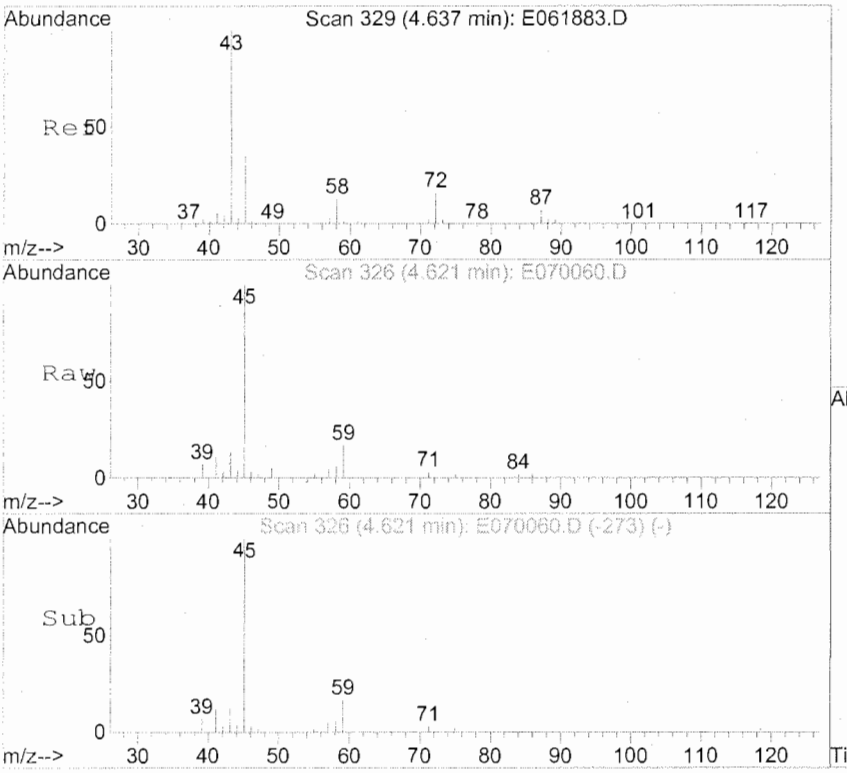


#3
N-Nitrosodimethylamine
Concen: 0.24 mg/L
RT: 3.26 min Scan# 72
Delta R.T. -0.11 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion: 42 Resp: 498

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

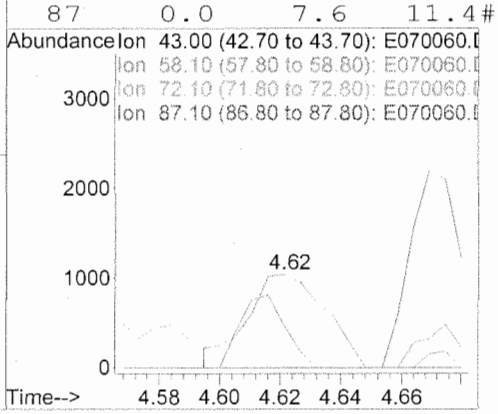


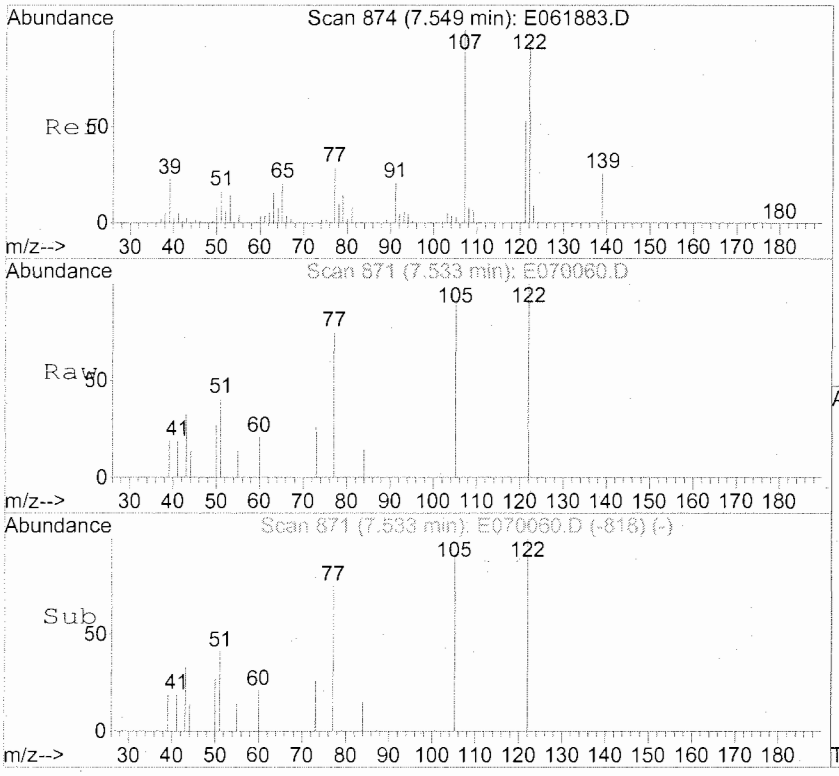


#5
PGMEA
Concen: 0.25 mg/L
RT: 4.62 min Scan# 326
Delta R.T. -0.02 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion: 43 Resp: 1869

Ion	Ratio	Lower	Upper
43	100		
58	45.2	9.7	14.5#
72	0.0	20.4	30.6#
87	0.0	7.6	11.4#

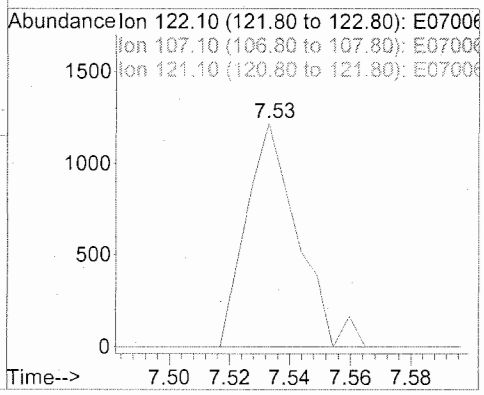


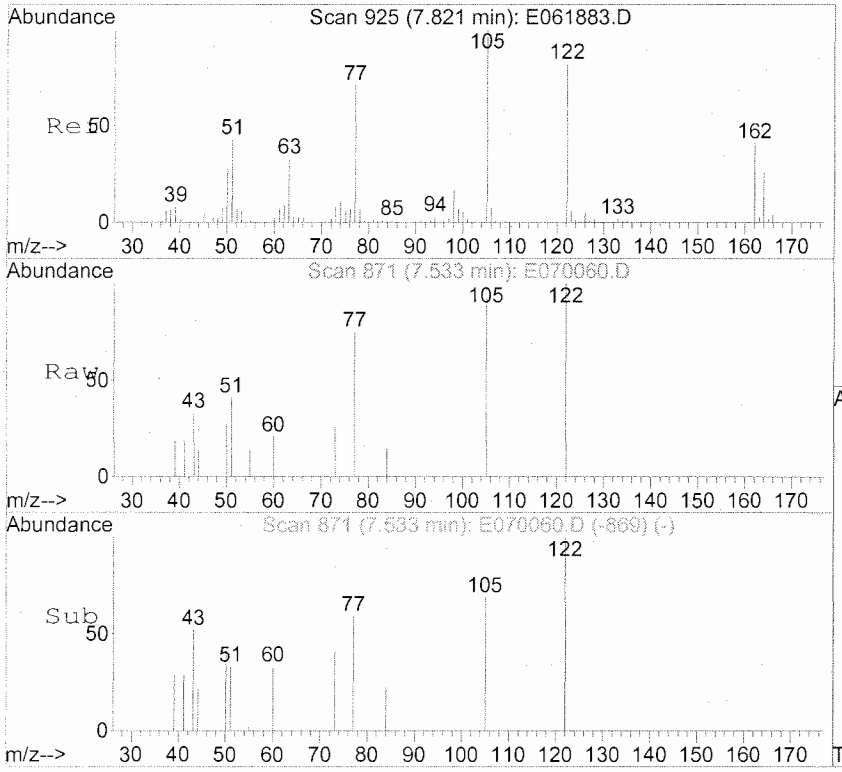


#27
2,4-Dimethylphenol
Concen: 0.42 mg/L
RT: 7.53 min Scan# 871
Delta R.T. -0.02 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion:122 Resp: 1445

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

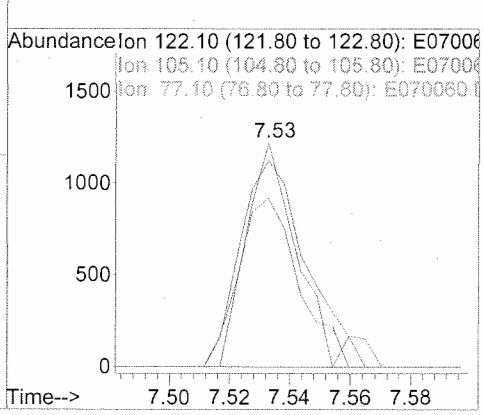


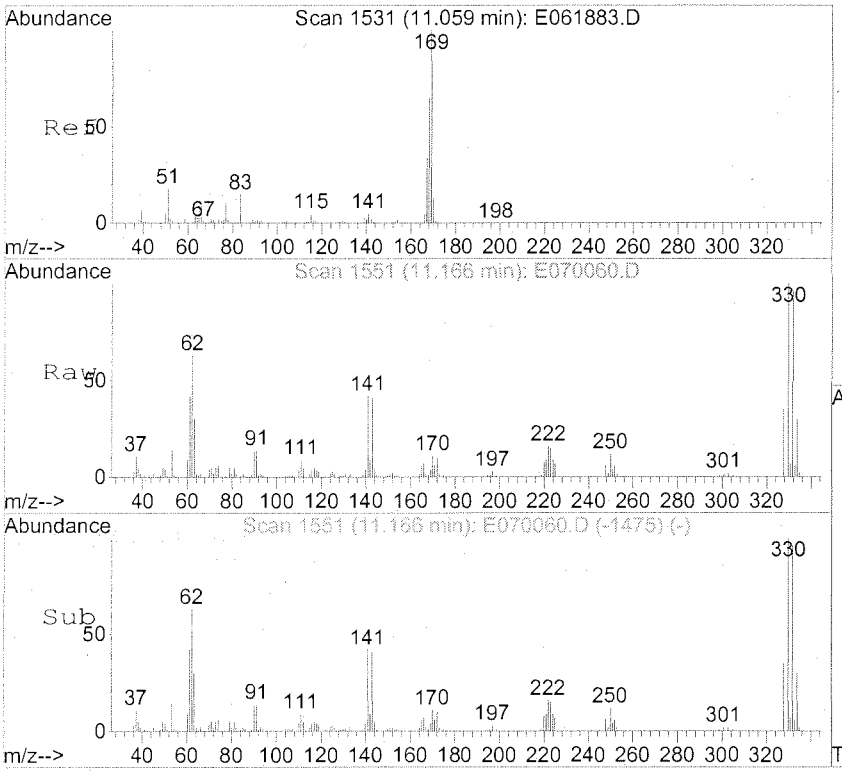


#28
Benzoic acid
Concen: 0.64 mg/L
RT: 7.53 min Scan# 871
Delta R.T. -0.29 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion:122 Resp: 1445

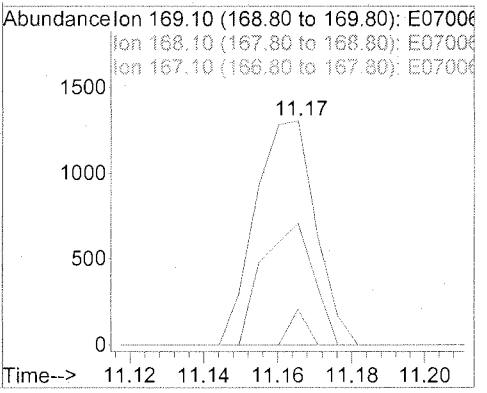
Ion	Ratio	Lower	Upper
122	100		
105	121.6	110.2	165.2
77	88.4	89.8	134.8#

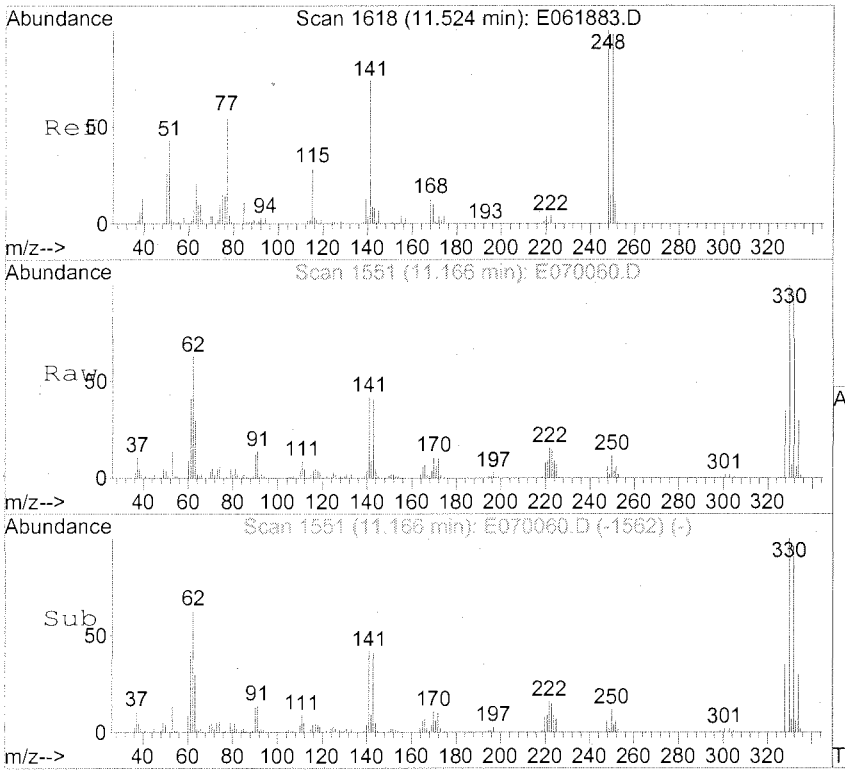




#59
N-Nitrosodiphenylamine
Concen: 0.29 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

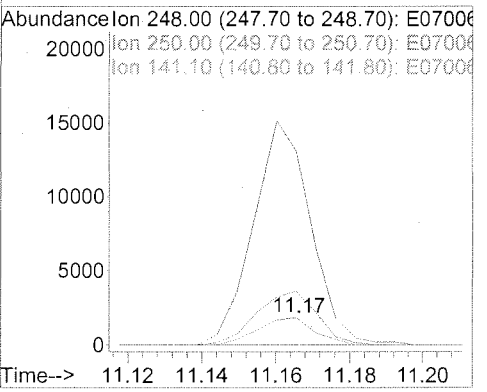
Tgt Ion:169	Resp:	1478	
Ion	Ratio	Lower	Upper
169	100		
168	4.5	50.8	76.2#
167	46.0	27.0	40.4#

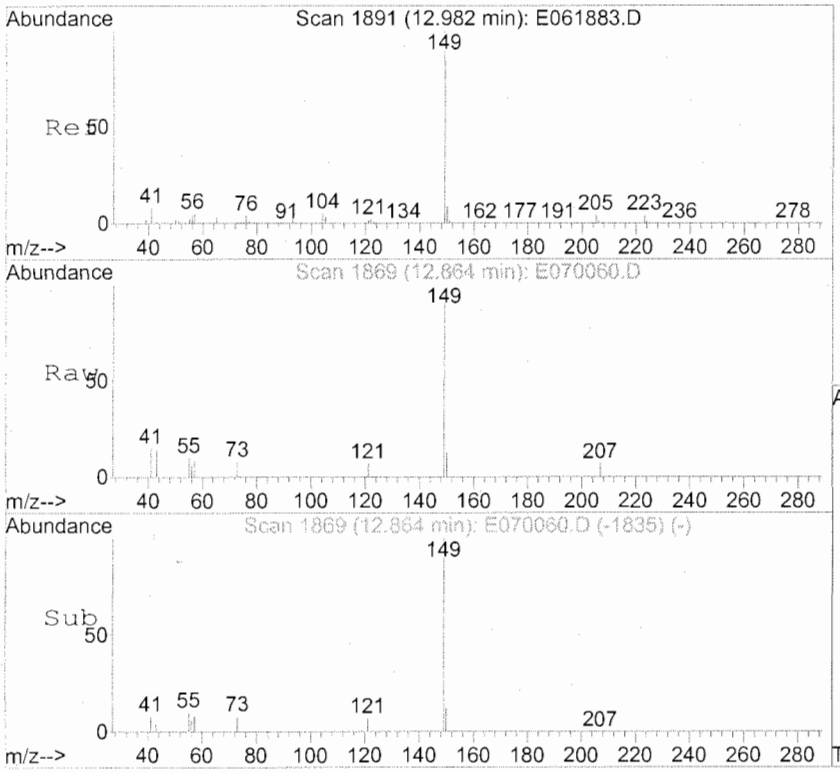




#62
4-Bromophenyl phenyl ether
Concen: 1.03 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion:248	Resp:	1948	
Ion	Ratio	Lower	Upper
248	100		
250	211.3	79.0	118.4#
141	839.9	64.3	96.5#

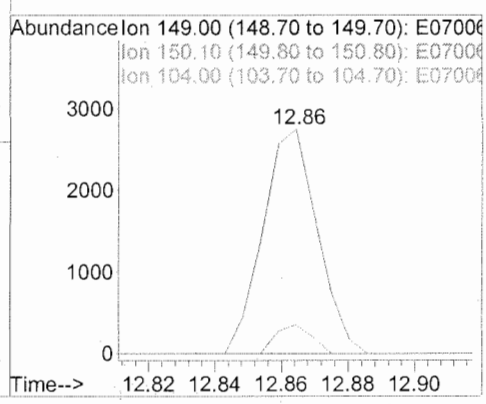


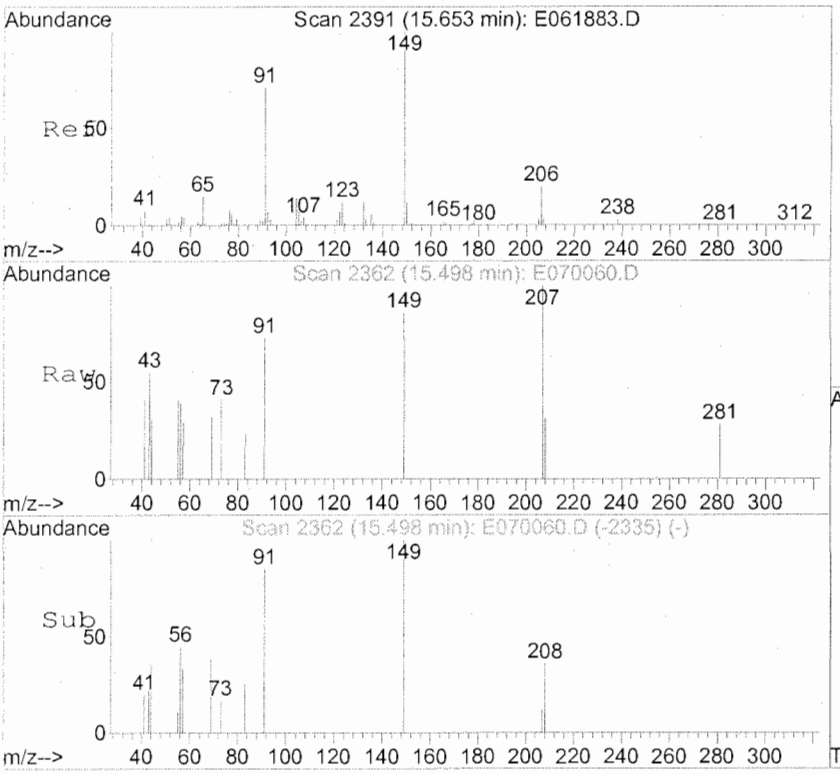


#68
Di-n-butylphthalate
Concen: 0.29 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion:149 Resp: 3140

Ion	Ratio	Lower	Upper
149	100		
150	8.4	7.3	10.9
104	0.0	4.6	7.0#

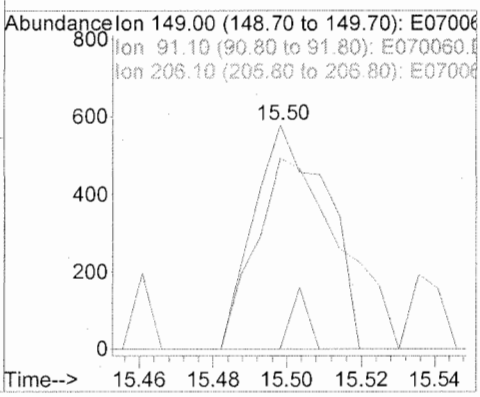


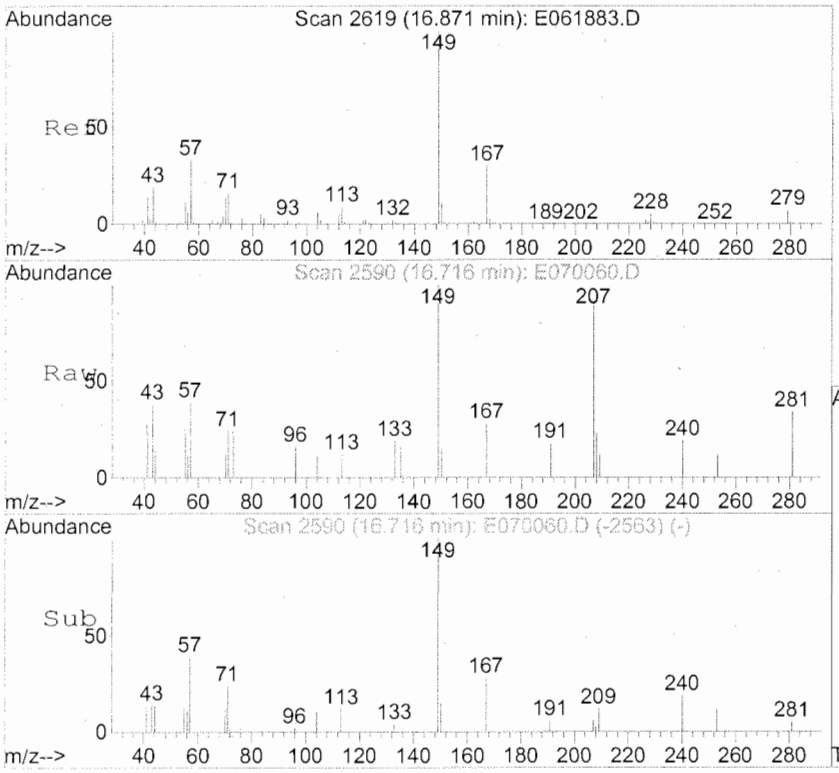


#74
Butylbenzylphthalate
Concen: 0.20 mg/L
RT: 15.50 min Scan# 2362
Delta R.T. -0.15 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion:149 Resp: 789

Ion	Ratio	Lower	Upper
149	100		
91	99.7	59.4	89.0#
206	6.5	19.0	28.6#

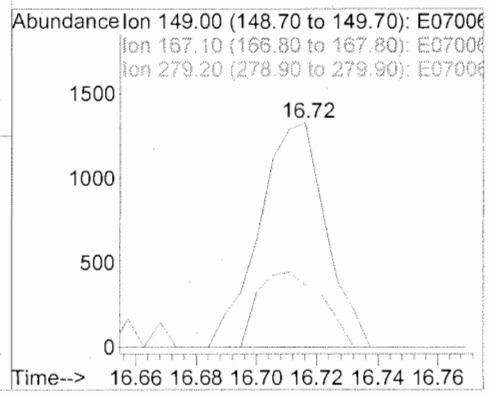


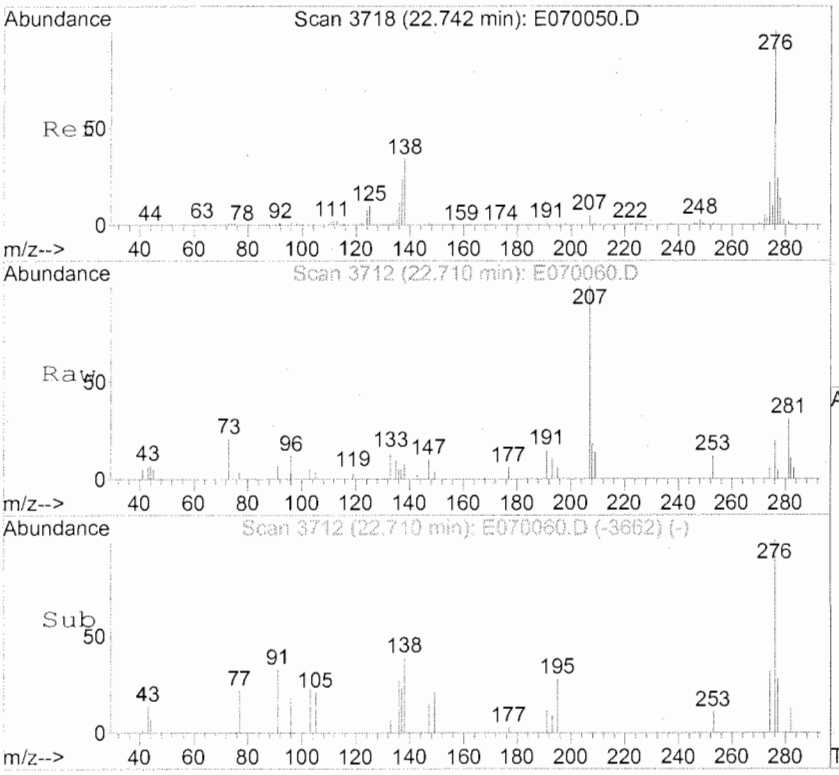


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.40 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion:149 Resp: 2040

Ion	Ratio	Lower	Upper
149	100		
167	32.4	25.0	37.6
279	0.0	6.2	9.2#

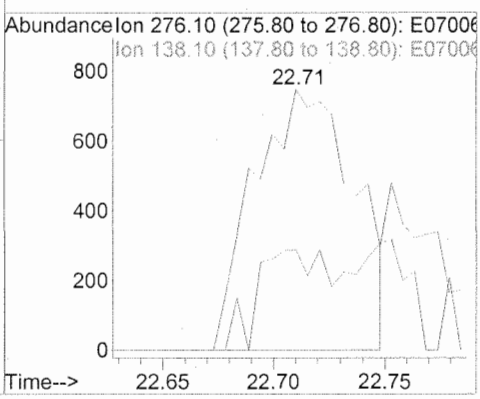


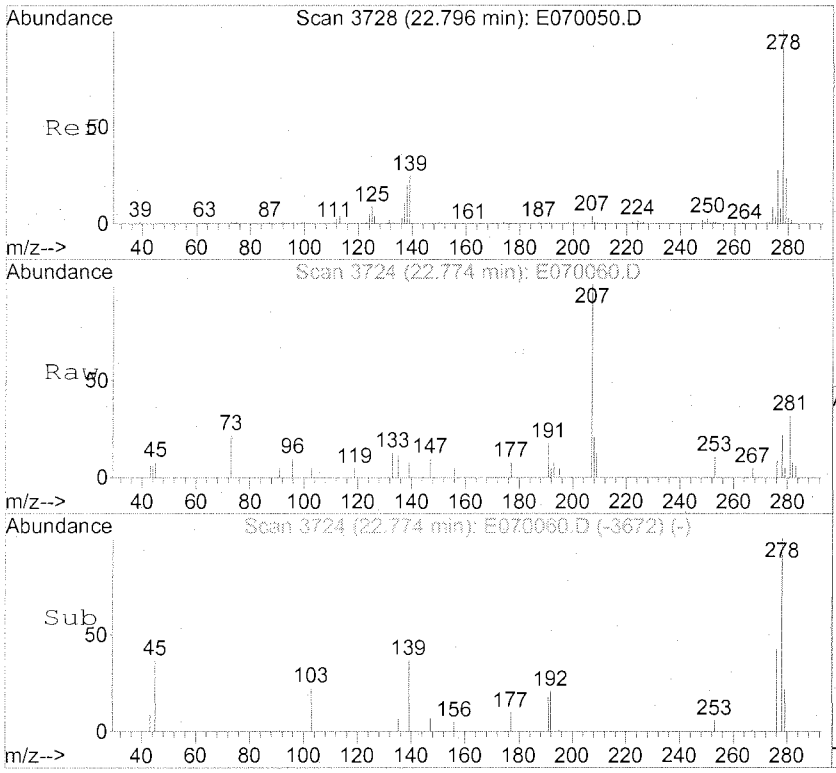


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.81 mg/L
RT: 22.71 min Scan# 3712
Delta R.T. -0.03 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion:276 Resp: 2316

Ion	Ratio	Lower	Upper
276	100		
138	26.6	25.4	38.0

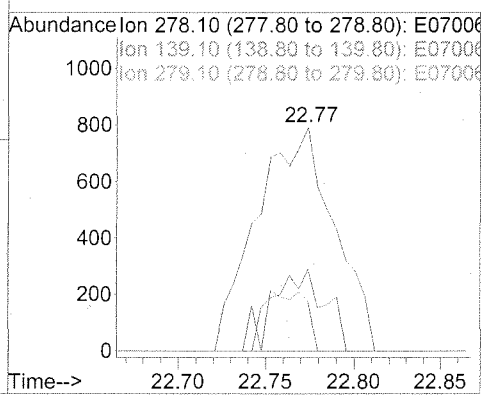


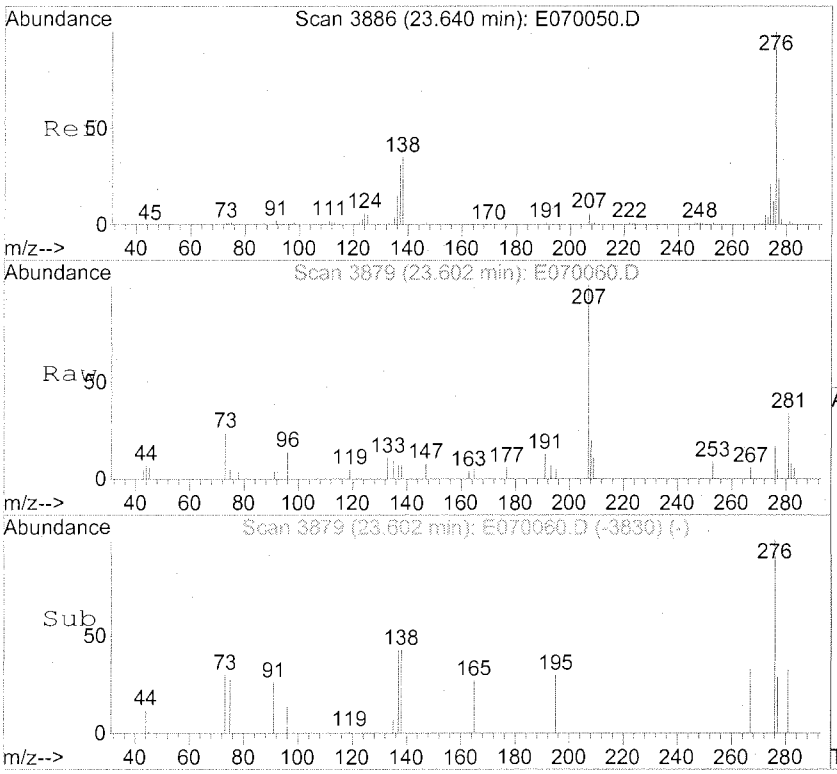


#86
Dibenz(a,h)anthracene
Concen: 0.98 mg/L
RT: 22.77 min Scan# 3724
Delta R.T. -0.02 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion:278 Resp: 2415

Ion	Ratio	Lower	Upper
278	100		
139	24.3	18.0	27.0
279	15.0	19.4	29.0#

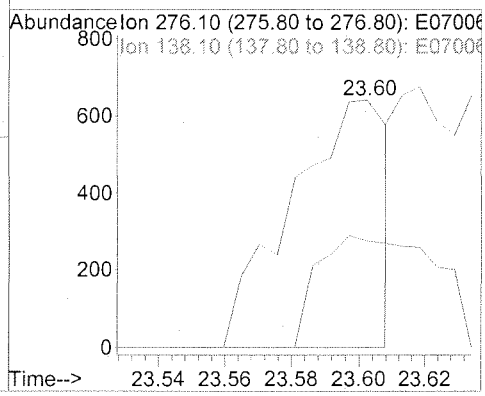




#87
Benzo(g,h,i)perylene
Concen: 0.54 mg/L
RT: 23.60 min Scan# 3879
Delta R.T. -0.04 min
Lab File: E070060.D
Acq: 18 Jan 2007 7:04 pm

Tgt Ion:276 Resp: 1266

Ion	Ratio	Lower	Upper
276	100		
138	56.0	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/10/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700131	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76115	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070119\E070070.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070073.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 13:29	**Quant Date:**	01/22/2007 08:30	**Vial:**	4
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-008			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quaut Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	154759	40.00	OK
2	Naphthalene-d8	7.93	-0.01?	136	612951	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	262538	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	514558	40.00	OK
5	Chrysene-d12	16.64	0.00?	240	255072	40.00	OK
6	Perylene-d12	19.70	0.00?	264	72501	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.66	-0.01	0.00	112	201393	40.87	82	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	12771	2.00	4	23-121	*	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	241516	46.63	93	42-122	OK	
3	2-Fluorobiphenyl	9.31	0.00	0.00	172	489427	59.12	118	47-110	*	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	48295	39.13	78	31-112	OK	
5	Terphenyl-d14	14.55	0.00	0.00	244	357227	50.11	100	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0d		0.41	U	
1	N-Nitrosodimethylamine				42	0d		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070073.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 13:29	**Quant Date:**	01/22/2007 08:30	**Vial:**	4
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-008			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0**d**		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid				122	0		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0**d**		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.71	-0.01	0.00	149	5938	0.7300	0.70	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070073.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 13:29	**Quant Date:**	01/22/2007 08:30	**Vial:**	4
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-008			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.87	-0.01	0.00	149	4352	0.2800	0.27	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	2578	0.4000	0.38	J	
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene				252	0**d**		0.42	U	
6	Benzo(k)fluoranthene				252	0**d**		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070073.D Vial: 4
Acq On : 19 Jan 2007 1:29 pm Operator: GJ
Sample : D0700056-008 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 22 08:27:34 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	154759	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	612951	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	262538	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	514558	40.00	mg/L	-0.10
70) Chrysene-d12	16.64	240	255072	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	72501	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.66	112	201393	40.87	mg/L	-0.06
Spiked Amount 50.000			Recovery =	81.74%		
7) Phenol-d5	5.81	99	12771	2.00	mg/L	-0.06
Spiked Amount 50.000			Recovery =	4.00%		
23) Nitrobenzene-d5	7.03	82	241516	46.63	mg/L	-0.07
Spiked Amount 50.000			Recovery =	93.26%		
41) 2-Fluorobiphenyl	9.31	172	489427	59.12	mg/L	-0.08
Spiked Amount 50.000			Recovery =	118.24%		
61) 2,4,6-Tribromophenol	11.17	330	48295	39.13	mg/L	-0.09
Spiked Amount 50.000			Recovery =	78.26%		
73) Terphenyl-d14	14.55	244	357227	50.11	mg/L	-0.13
Spiked Amount 50.000			Recovery =	100.22%		
Target Compounds						Qvalue
54) Diethylphthalate	10.71	149	5938	0.73	mg/L	97
68) Di-n-butylphthalate	12.87	149	4352	0.28	mg/L #	95
78) Bis(2-ethylhexyl)phthalate	16.72	149	2578	0.40	mg/L #	95

Surr. confirmed

~~Confirmation~~

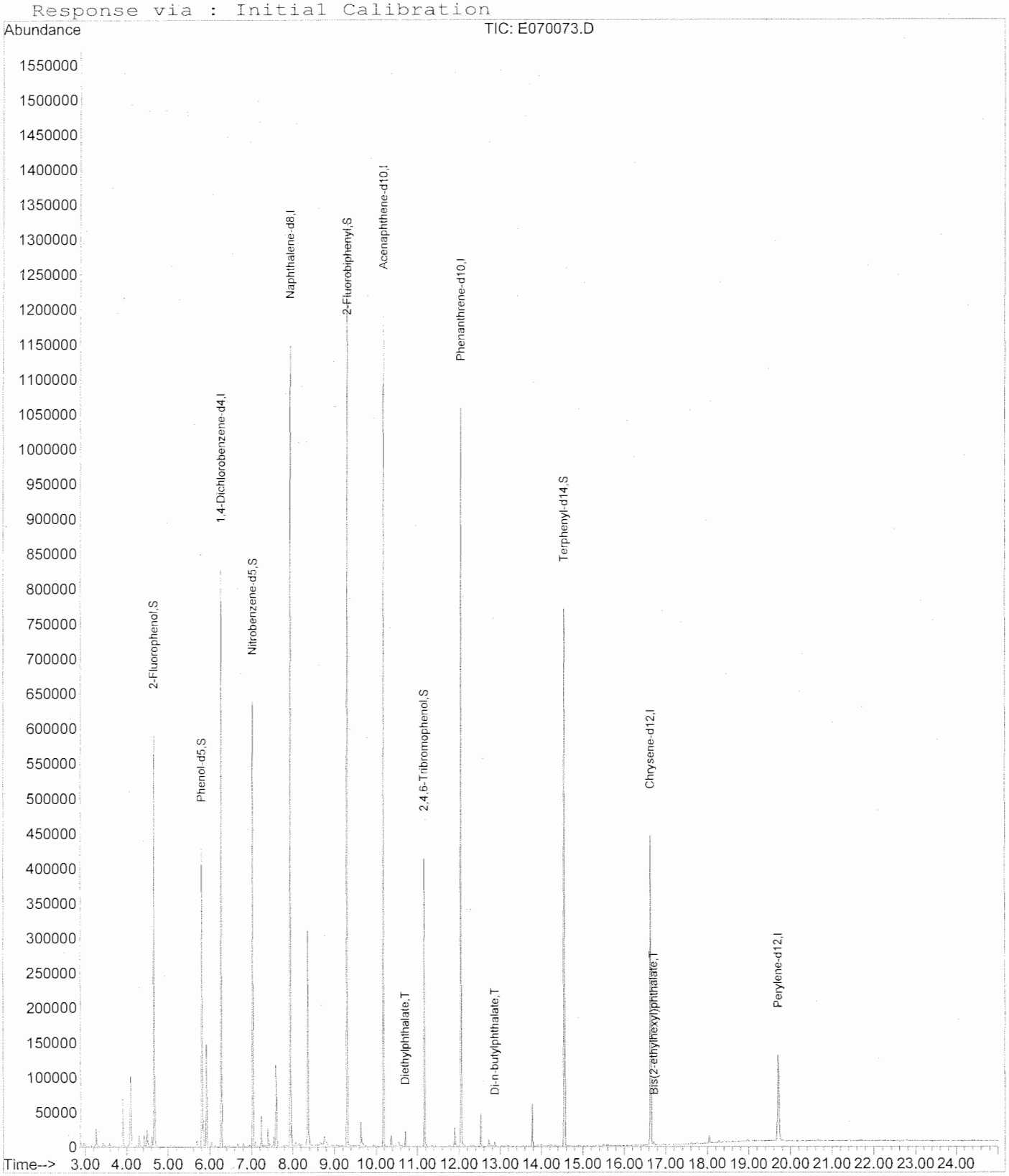
a 1/22/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070073.D Vial: 4
Acq On : 19 Jan 2007 1:29 pm Operator: GJ
Sample : D0700056-008 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 22 8:30 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070073.D Vial: 4
Acq On : 19 Jan 2007 1:29 pm Operator: GJ
Sample : D0700056-008 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 22 08:27:34 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

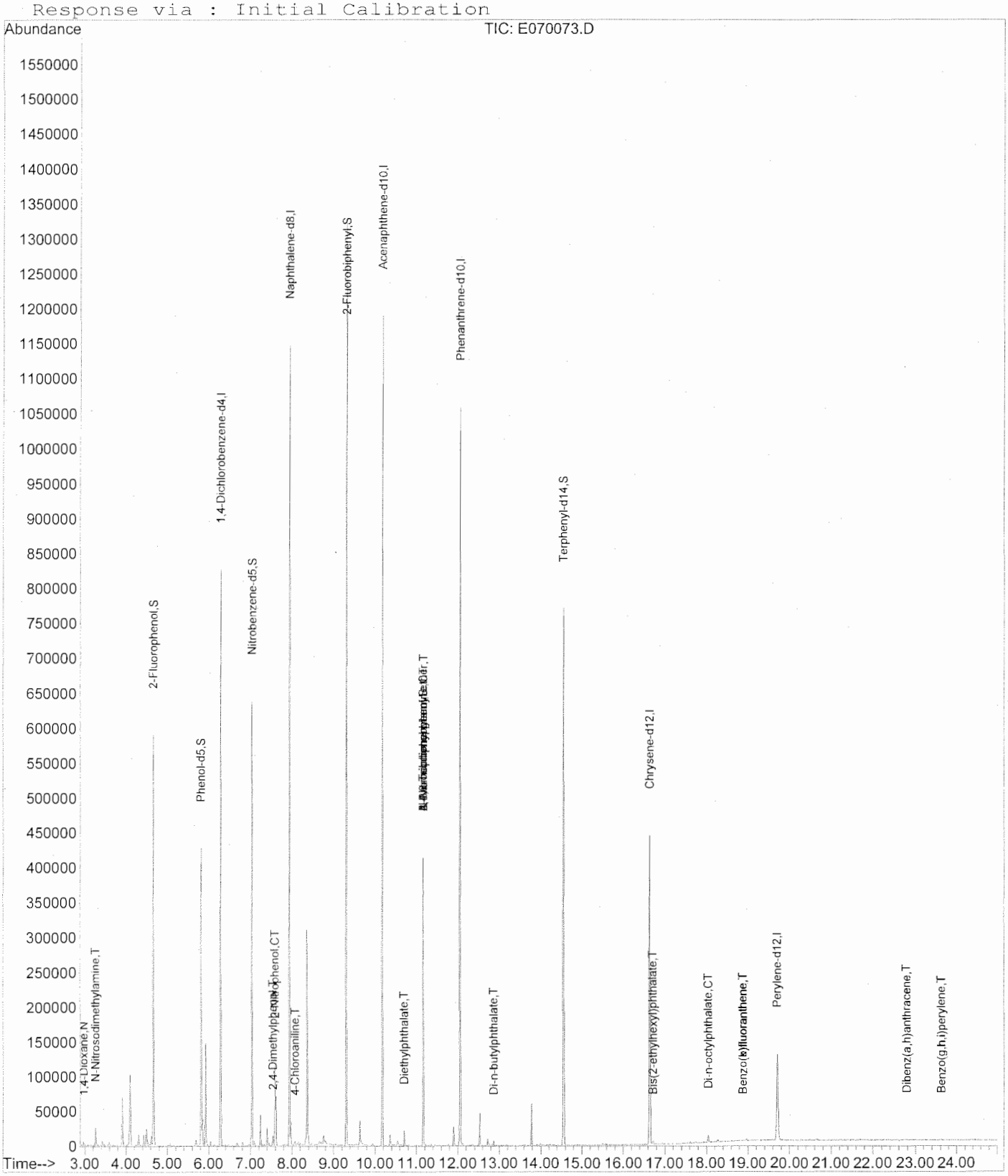
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	154759	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	612951	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	262538	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	514558	40.00	mg/L	-0.10
70) Chrysene-d12	16.64	240	255072	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	72501	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.66	112	201393	40.87	mg/L	-0.06
Spiked Amount 50.000			Recovery =	81.74%		
7) Phenol-d5	5.81	99	12771	2.00	mg/L	-0.06
Spiked Amount 50.000			Recovery =	4.00%		
23) Nitrobenzene-d5	7.03	82	241516	46.63	mg/L	-0.07
Spiked Amount 50.000			Recovery =	93.26%		
41) 2-Fluorobiphenyl	9.31	172	489427	59.12	mg/L	-0.08
Spiked Amount 50.000			Recovery =	118.24%		
61) 2,4,6-Tribromophenol	11.17	330	48295	39.13	mg/L	-0.09
Spiked Amount 50.000			Recovery =	78.26%		
73) Terphenyl-d14	14.55	244	357227	50.11	mg/L	-0.13
Spiked Amount 50.000			Recovery =	100.22%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	2324	1.03	mg/L	86
3) N-Nitrosodimethylamine	3.26	42	1224	0.42	mg/L #	1
26) 2-Nitrophenol	7.59	139	26279	8.57	mg/L #	29
27) 2,4-Dimethylphenol	7.54	122	2914	0.59	mg/L #	1
33) 4-Chloroaniline	8.07	127	2370	0.42	mg/L #	45
54) Diethylphthalate	10.71	149	5938	0.73	mg/L	97
59) N-Nitrosodiphenylamine	11.17	169	2070	0.28	mg/L #	35
62) 4-Bromophenyl phenyl ether	11.17	248	2964	1.10	mg/L #	1
68) Di-n-butylphthalate	12.87	149	4352	0.28	mg/L #	95
78) Bis(2-ethylhexyl)phthalate	16.72	149	2578	0.40	mg/L #	95
81) Di-n-octylphthalate	18.04	149	1820	0.39	mg/L #	56
82) Benzo(b)fluoranthene	18.88	252	671	0.26	mg/L #	74
83) Benzo(k)fluoranthene	18.88	252	671	0.26	mg/L #	75
86) Dibenz(a,h)anthracene	22.78	278	743	0.52	mg/L #	52
87) Benzo(g,h,i)perylene	23.63	276	365	0.26	mg/L #	71

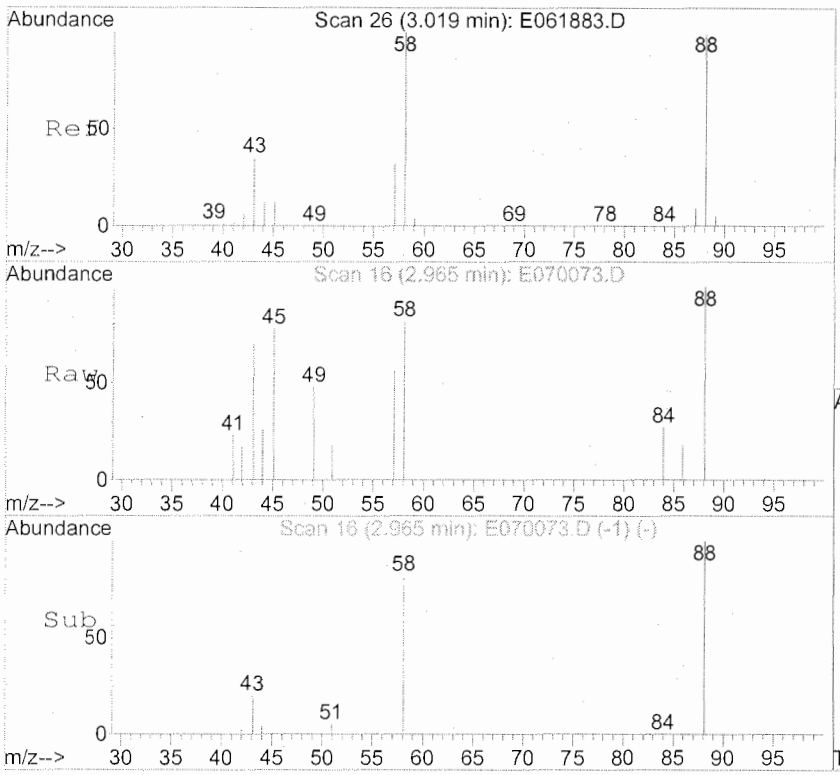
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070073.D Vial: 4
Acq On : 19 Jan 2007 1:29 pm Operator: GJ
Sample : D0700056-008 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 22 8:27 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

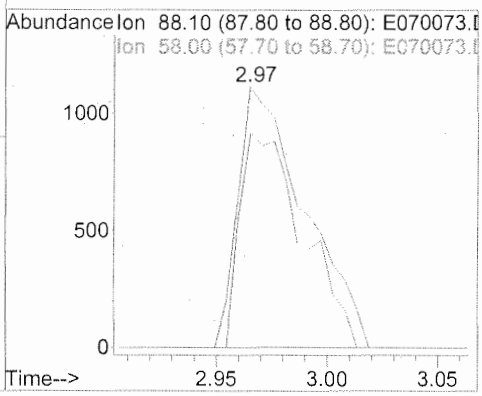


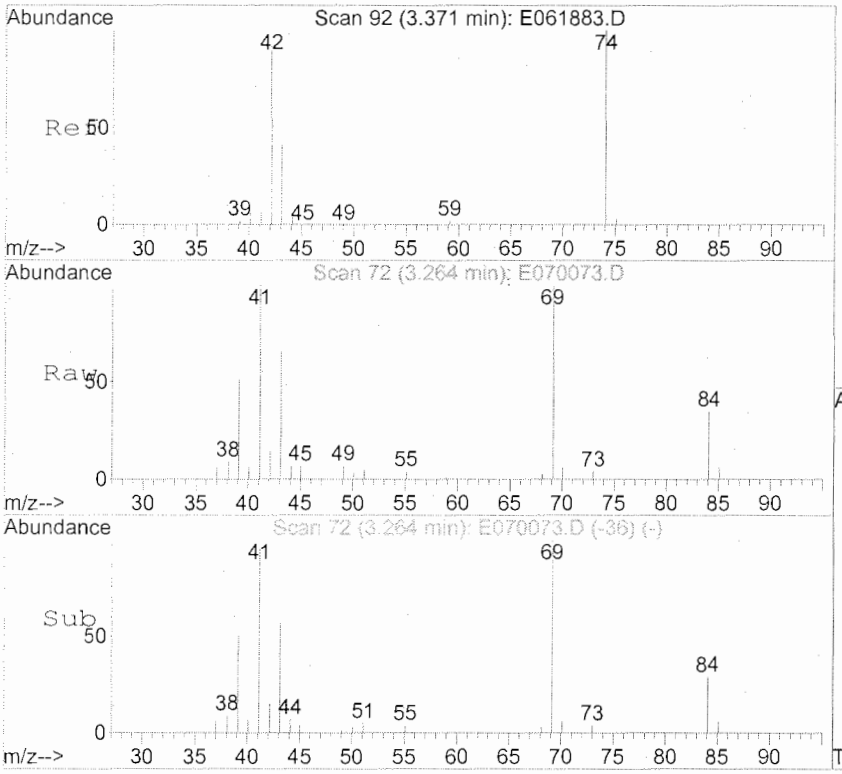


#2
1,4-Dioxane
Concen: 1.03 mg/L
RT: 2.97 min Scan# 16
Delta R.T. -0.05 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion: 88 Resp: 2324

Ion	Ratio	Lower	Upper
88	100		
58	78.0	53.5	80.3

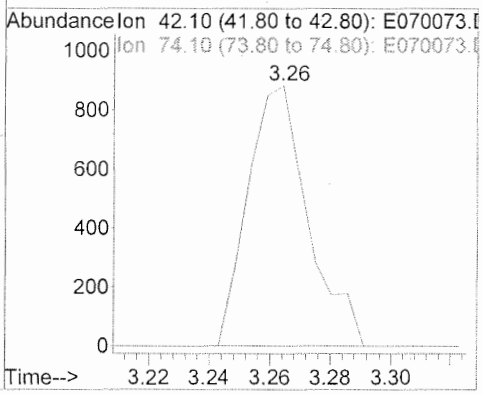


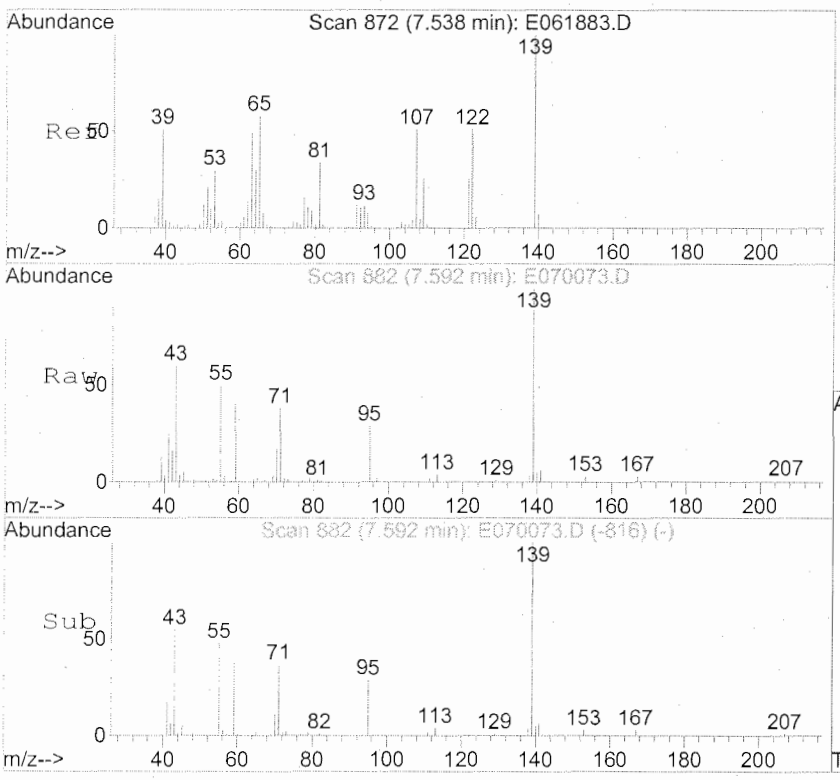


#3
N-Nitrosodimethylamine
Concen: 0.42 mg/L
RT: 3.26 min Scan# 72
Delta R.T. -0.11 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion: 42 Resp: 1224

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

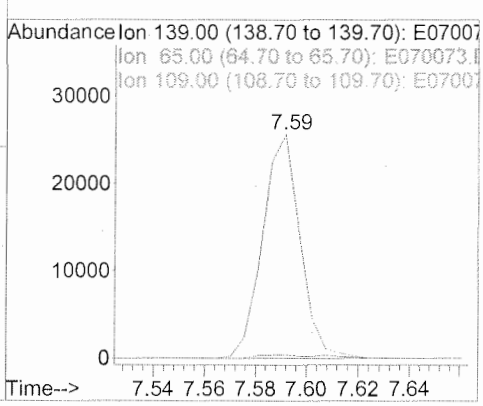


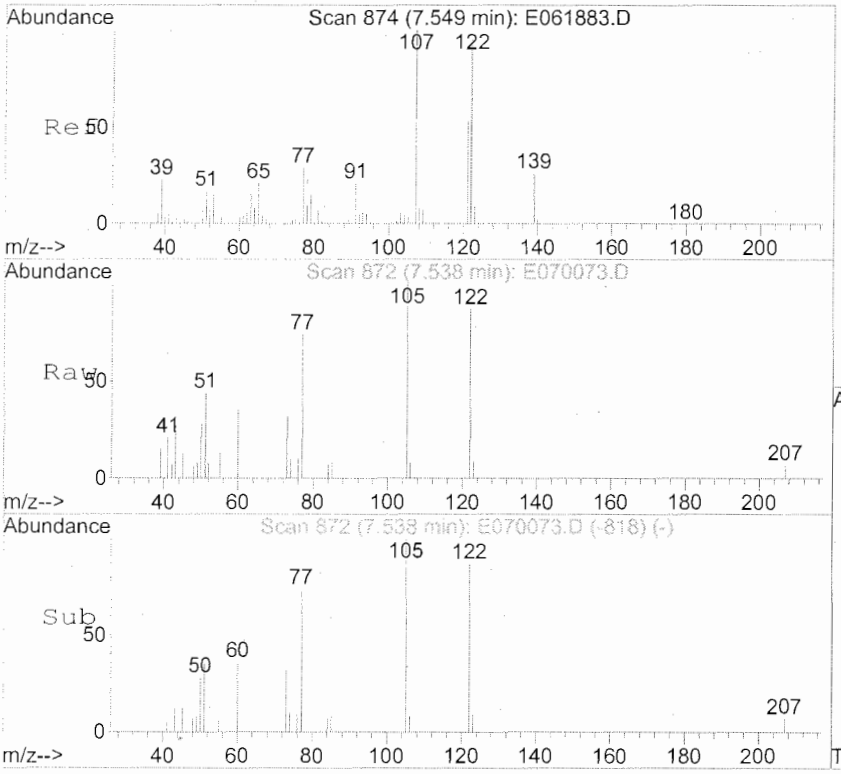


#26
2-Nitrophenol
Concen: 8.57 mg/L
RT: 7.59 min Scan# 882
Delta R.T. 0.05 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:139 Resp: 26279

Ion	Ratio	Lower	Upper
139	100		
65	1.8	47.3	70.9#
109	0.0	31.0	46.4#

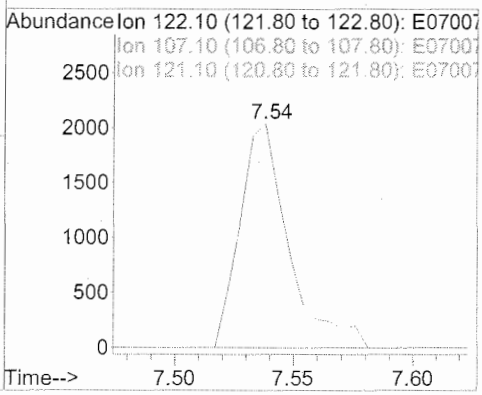


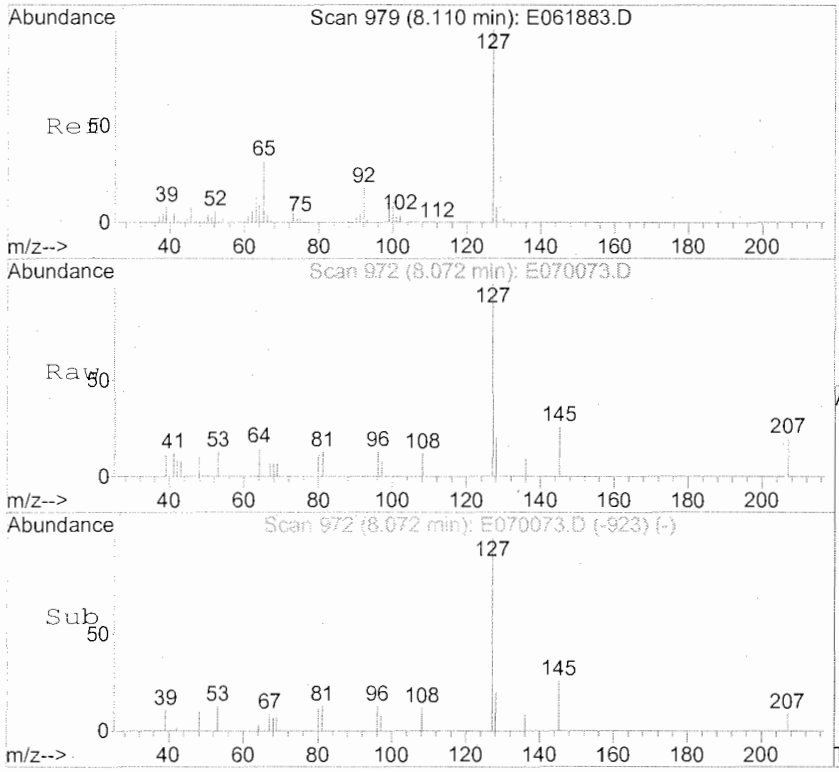


#27
2,4-Dimethylphenol
Concen: 0.59 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:122 Resp: 2914

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

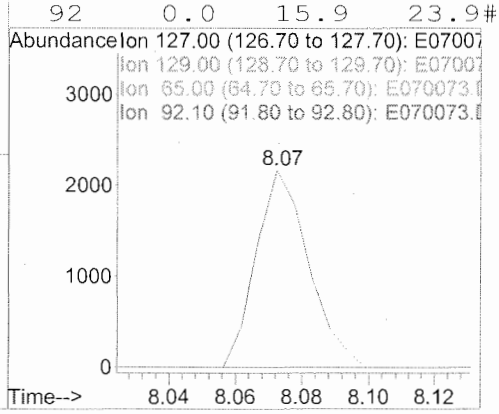


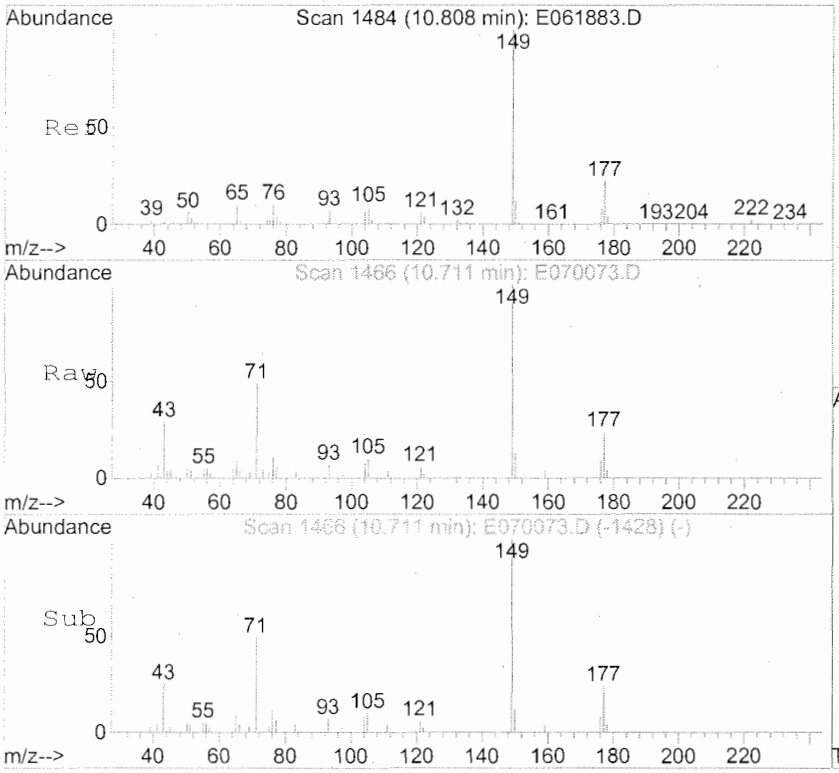


#33
4-Chloroaniline
Concen: 0.42 mg/L
RT: 8.07 min Scan# 972
Delta R.T. -0.04 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:127 Resp: 2370

Ion	Ratio	Lower	Upper
127	100		
129	0.0	25.9	38.9#
65	0.0	27.8	41.8#
92	0.0	15.9	23.9#

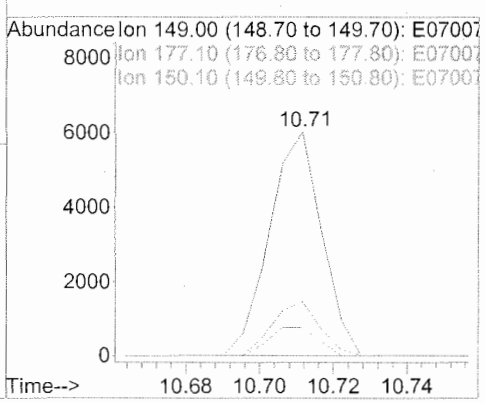


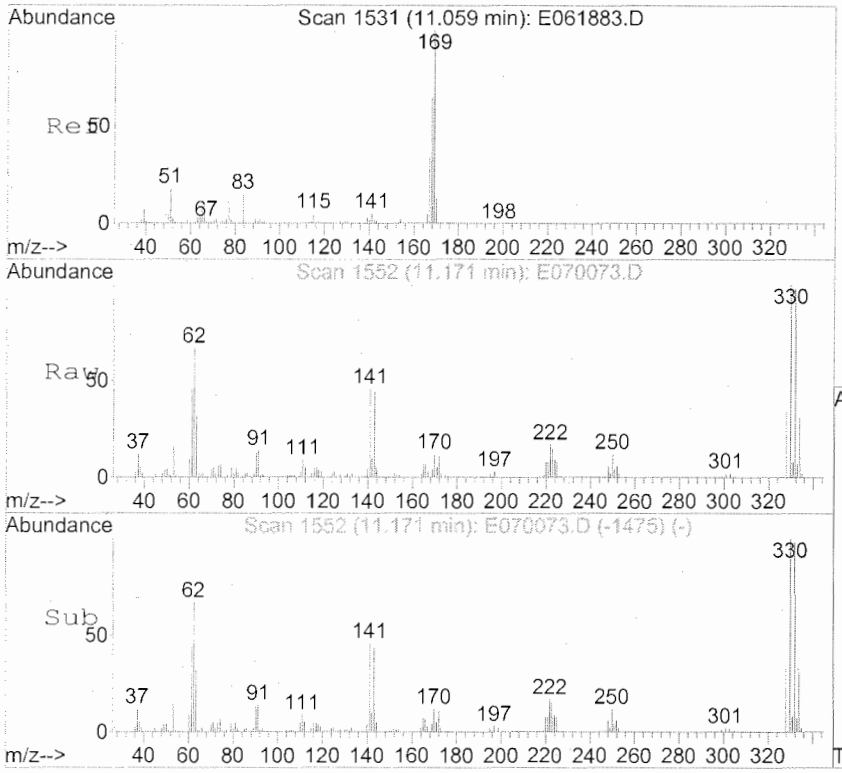


#54
Diethylphthalate
Concen: 0.73 mg/L
RT: 10.71 min Scan# 1466
Delta R.T. -0.10 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:149 Resp: 5938

Ion	Ratio	Lower	Upper
149	100		
177	21.9	19.0	28.6
150	11.9	10.0	15.0

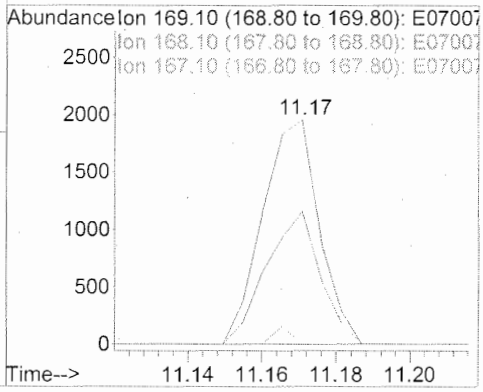


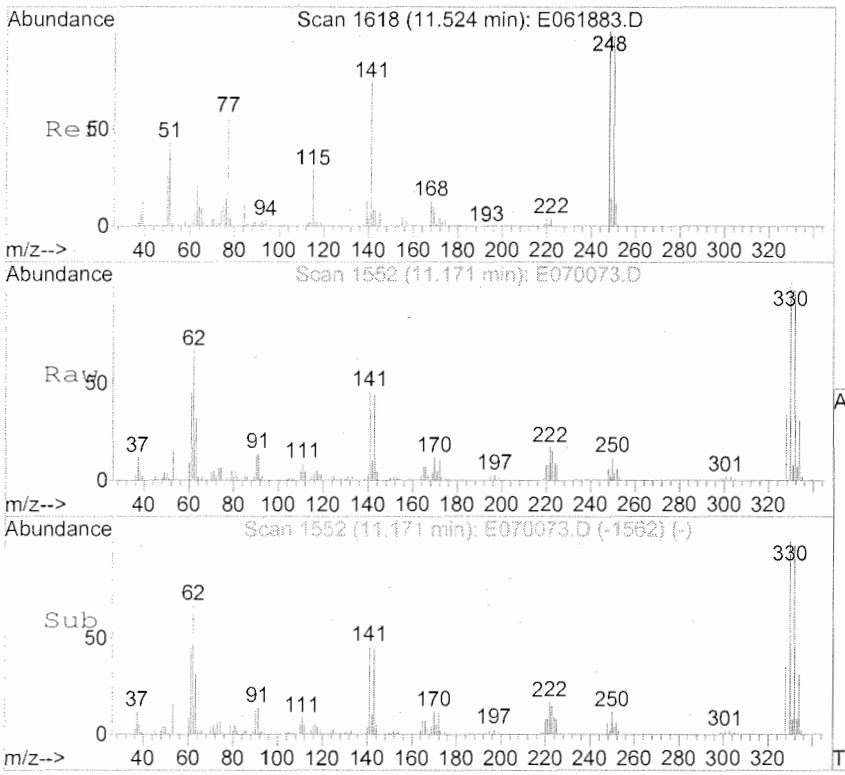


#59
N-Nitrosodiphenylamine
Concen: 0.28 mg/L
RT: 11.17 min Scan# 1552
Delta R.T. 0.11 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:169 Resp: 2070

Ion	Ratio	Lower	Upper
169	100		
168	2.4	50.8	76.2#
167	56.3	27.0	40.4#

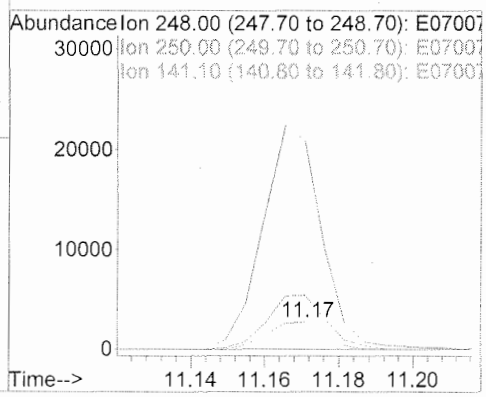


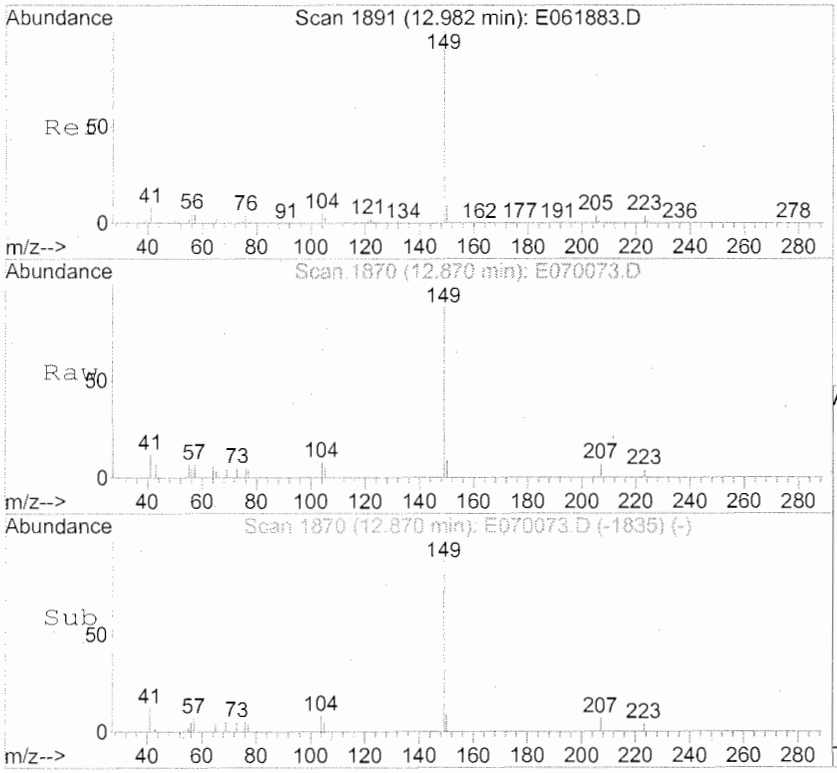


#62
4-Bromophenyl phenyl ether
Concen: 1.10 mg/L
RT: 11.17 min Scan# 1552
Delta R.T. -0.35 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:248 Resp: 2964

Ion	Ratio	Lower	Upper
248	100		
250	202.3	79.0	118.4#
141	832.5	64.3	96.5#

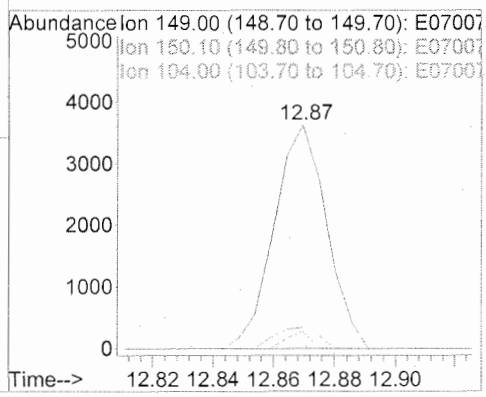


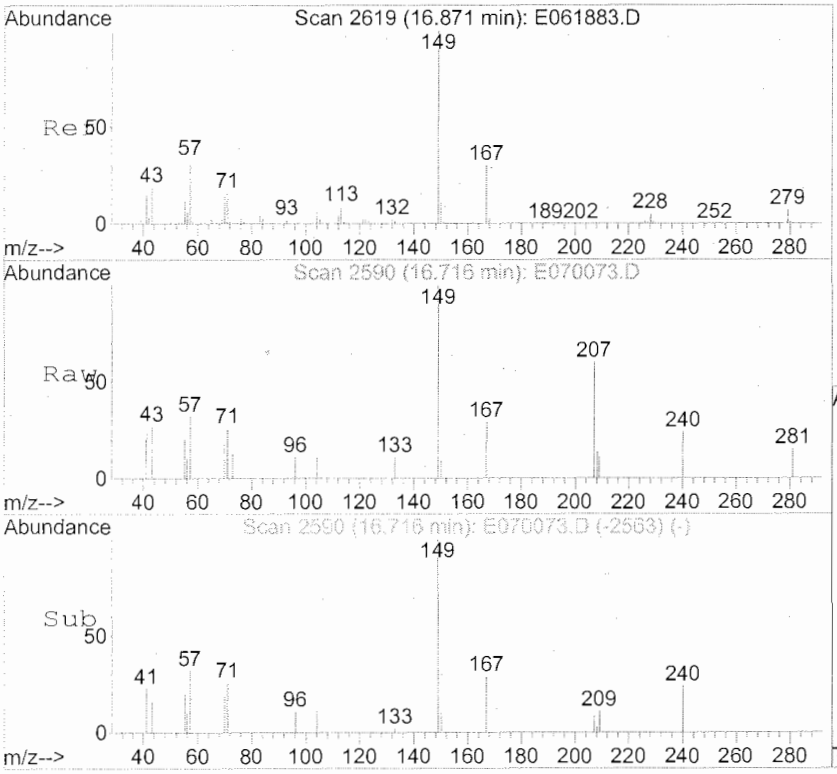


#68
Di-n-butylphthalate
Concen: 0.28 mg/L
RT: 12.87 min Scan# 1870
Delta R.T. -0.11 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:149 Resp: 4352

Ion	Ratio	Lower	Upper
149	100		
150	7.7	7.3	10.9
104	3.3	4.6	7.0#

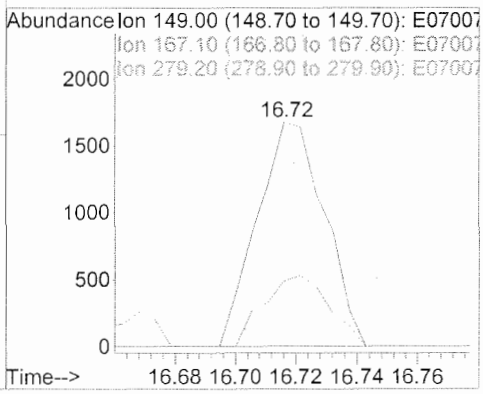


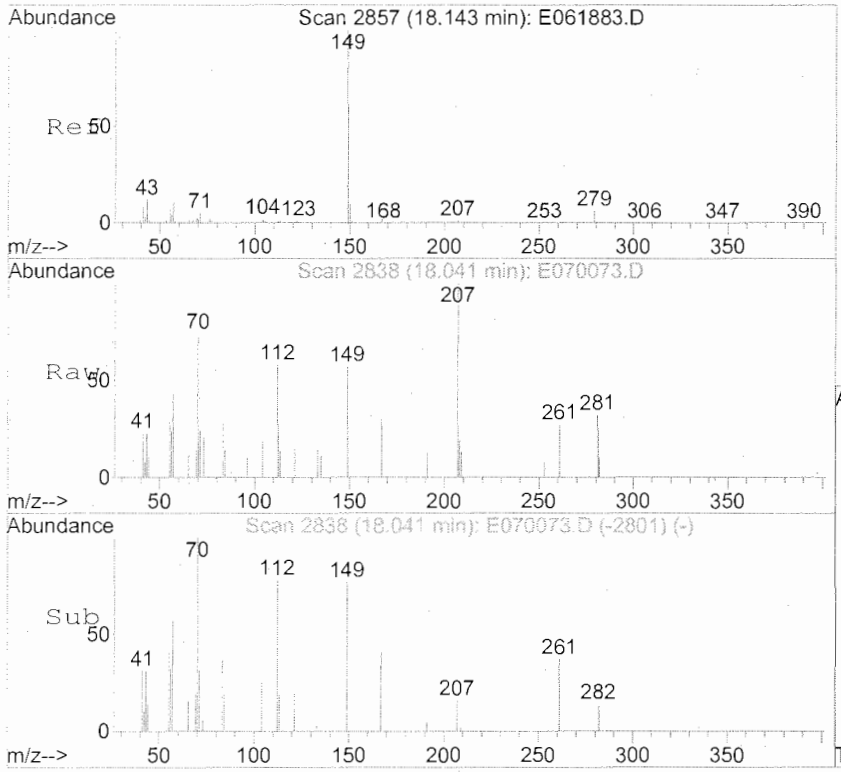


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.40 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:149 Resp: 2578

Ion	Ratio	Lower	Upper
149	100		
167	30.6	25.0	37.6
279	0.0	6.2	9.2#

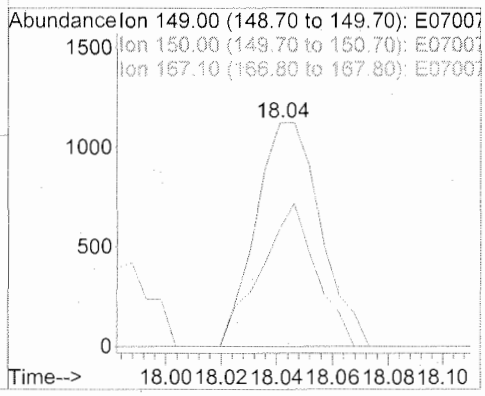


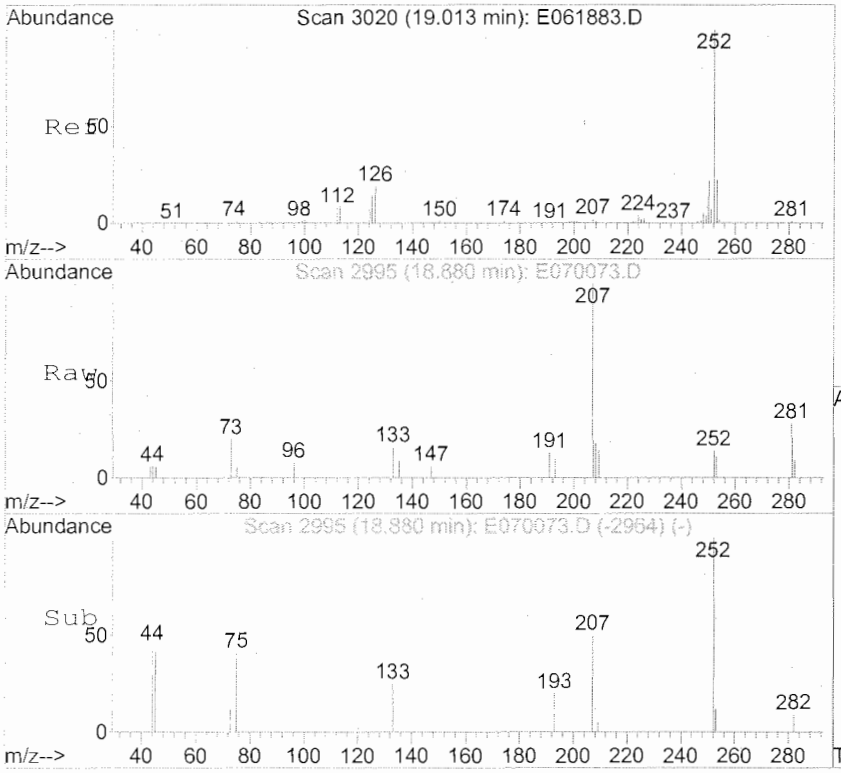


#81
Di-n-octylphthalate
Concen: 0.39 mg/L
RT: 18.04 min Scan# 2838
Delta R.T. -0.10 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:149 Resp: 1820

Ion	Ratio	Lower	Upper
149	100		
150	0.0	7.8	11.8#
167	54.6	1.4	2.0#

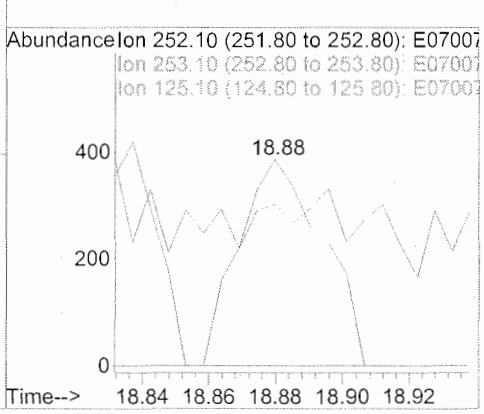


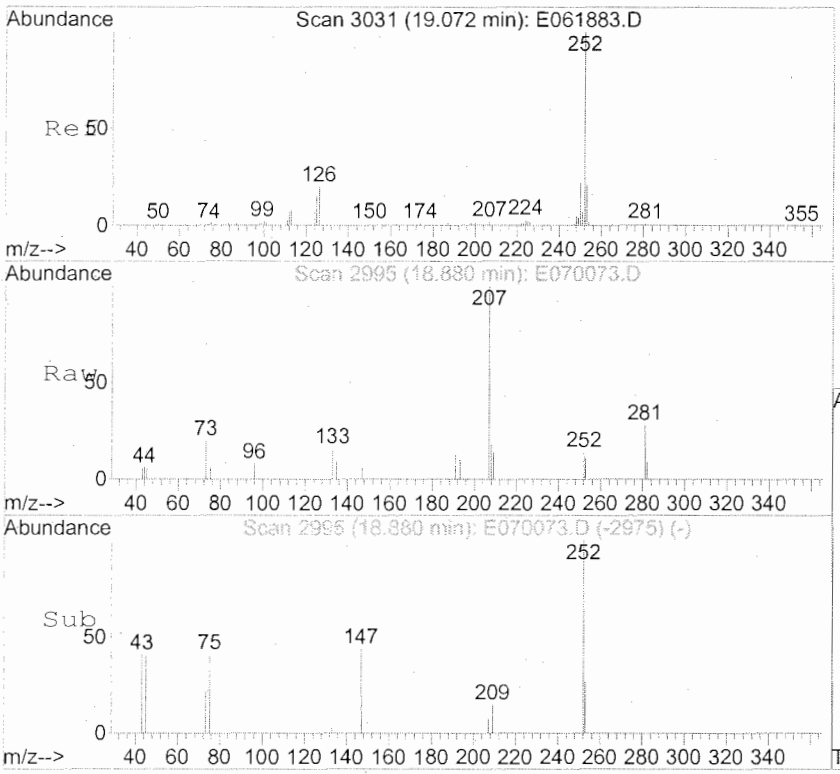


#82
Benzo(b)fluoranthene
Concen: 0.26 mg/L
RT: 18.88 min Scan# 2995
Delta R.T. -0.13 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:252 Resp: 671

Ion	Ratio	Lower	Upper
252	100		
253	9.4	17.7	26.5#
125	0.0	6.3	9.5#

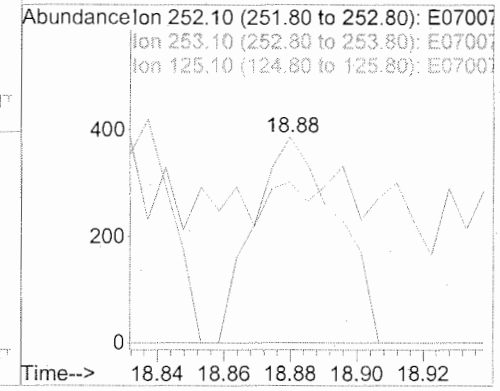


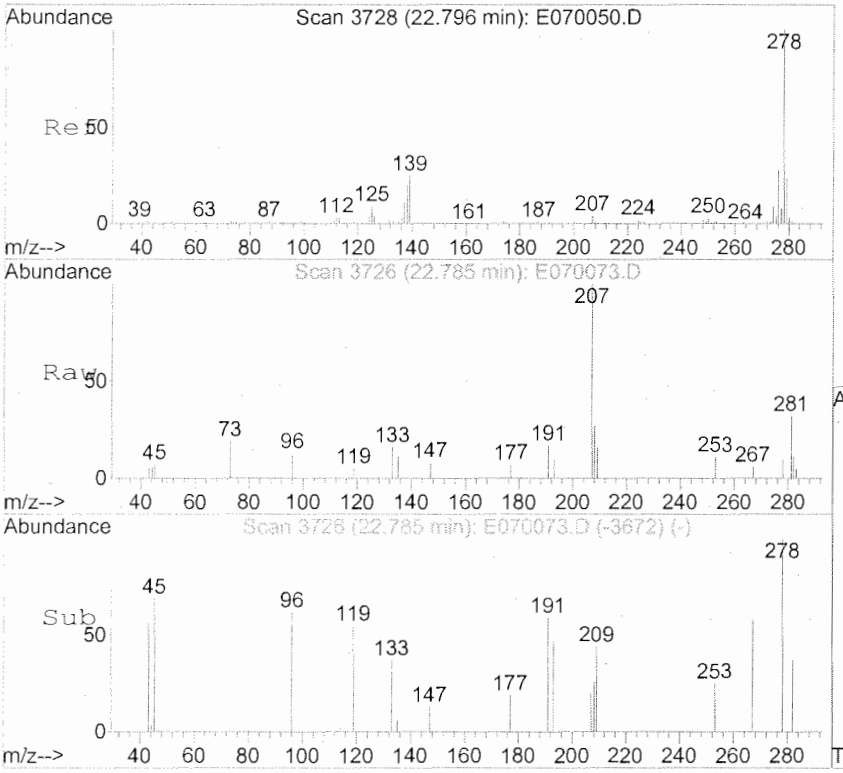


#83
Benzo(k)fluoranthene
Concen: 0.26 mg/L
RT: 18.88 min Scan# 2995
Delta R.T. -0.19 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:252 Resp: 671

Ion	Ratio	Lower	Upper
252	100		
253	9.4	17.2	25.8#
125	0.0	6.2	9.4#

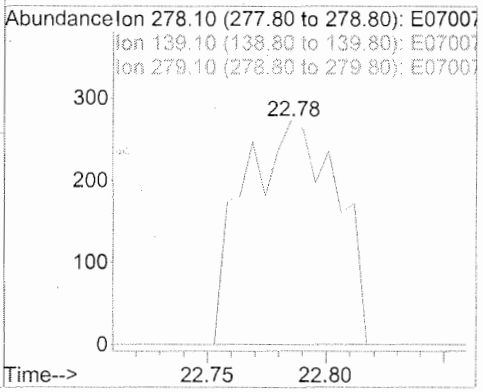


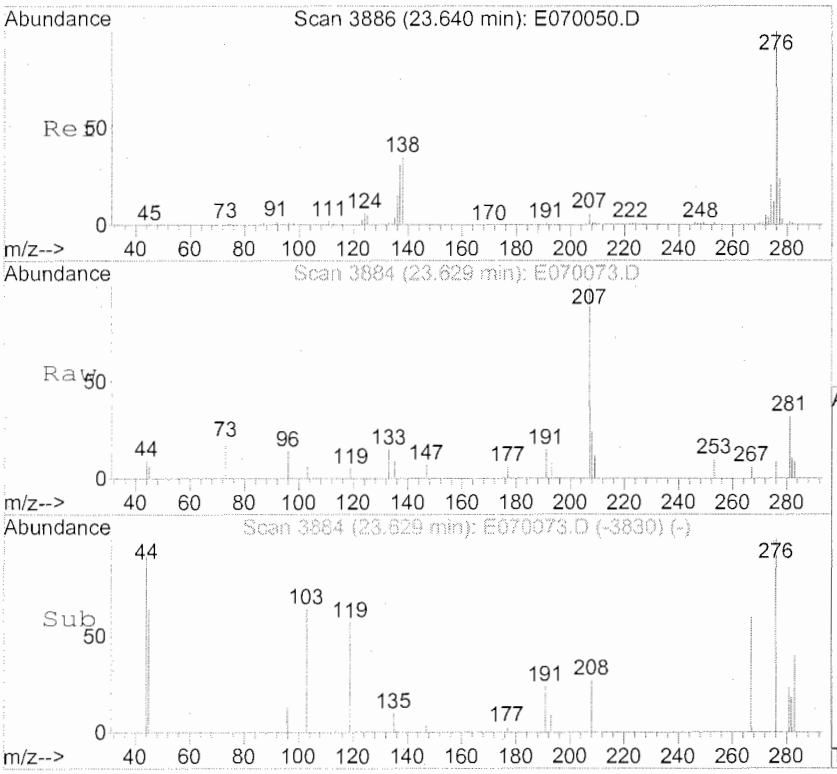


#86
Dibenz(a,h)anthracene
Concen: 0.52 mg/L
RT: 22.78 min Scan# 3726
Delta R.T. -0.01 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:278 Resp: 743

Ion	Ratio	Lower	Upper
278	100		
139	0.0	18.0	27.0#
279	0.0	19.4	29.0#

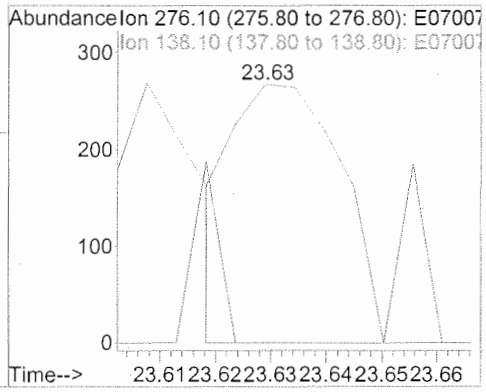




#87
Benzo(g,h,i)perylene
Concen: 0.26 mg/L
RT: 23.63 min Scan# 3884
Delta R.T. -0.01 min
Lab File: E070073.D
Acq: 19 Jan 2007 1:29 pm

Tgt Ion:276 Resp: 365

Ion	Ratio	Lower	Upper
276	100		
138	16.4	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/10/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76115	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070061.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 19:36	**Quant Date:**	01/19/2007 09:01	**Vial:**	14
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-008			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	176642	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	688601	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	122914	40.00	*
4	Phenanthrene-d10	12.05	0.00?	188	563247	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	273890	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	51673	40.00	*

Surrogate Compounds

original analysis

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	234104	41.63	83	23-115	OK
1	Phenol-d5	5.82	0.00	0.00	99	16600	2.28	5	23-121	*
2	Nitrobenzene-d5	7.03	0.00	0.00	82	282073	48.48	97	42-122	OK
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	567659	146.47	293	47-110	*
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	57228	42.36	85	31-112	OK
5	Terphenyl-d14	14.55	-0.01	0.00	244	412796	53.93	108	37-130	OK

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0d		0.41	U	
1	N-Nitrosodimethylamine				42	0d		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine aceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070061.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 19:36	**Quant Date:**	01/19/2007 09:01	**Vial:**	14
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-008			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0d		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	4150	1.13	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0d		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0		0.29	U	
3	Acenaphthene				154	0d		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.71	-0.01	0.00	149	6760	1.77	1.7	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070061.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 19:36	**Quant Date:**	01/19/2007 09:01	**Vial:**	14
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-008			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	5218	0.3000	0.29	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	3129	0.4500	0.43	J	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0**d**		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount: 1050 ml **Dilution:** 1.0
Prep Final Vol: 1.0 ml **Unit Factor:** 1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070061.D Vial: 14
Acq On : 18 Jan 2007 7:36 pm Operator: GJ
Sample : D0700056-008 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:55:29 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

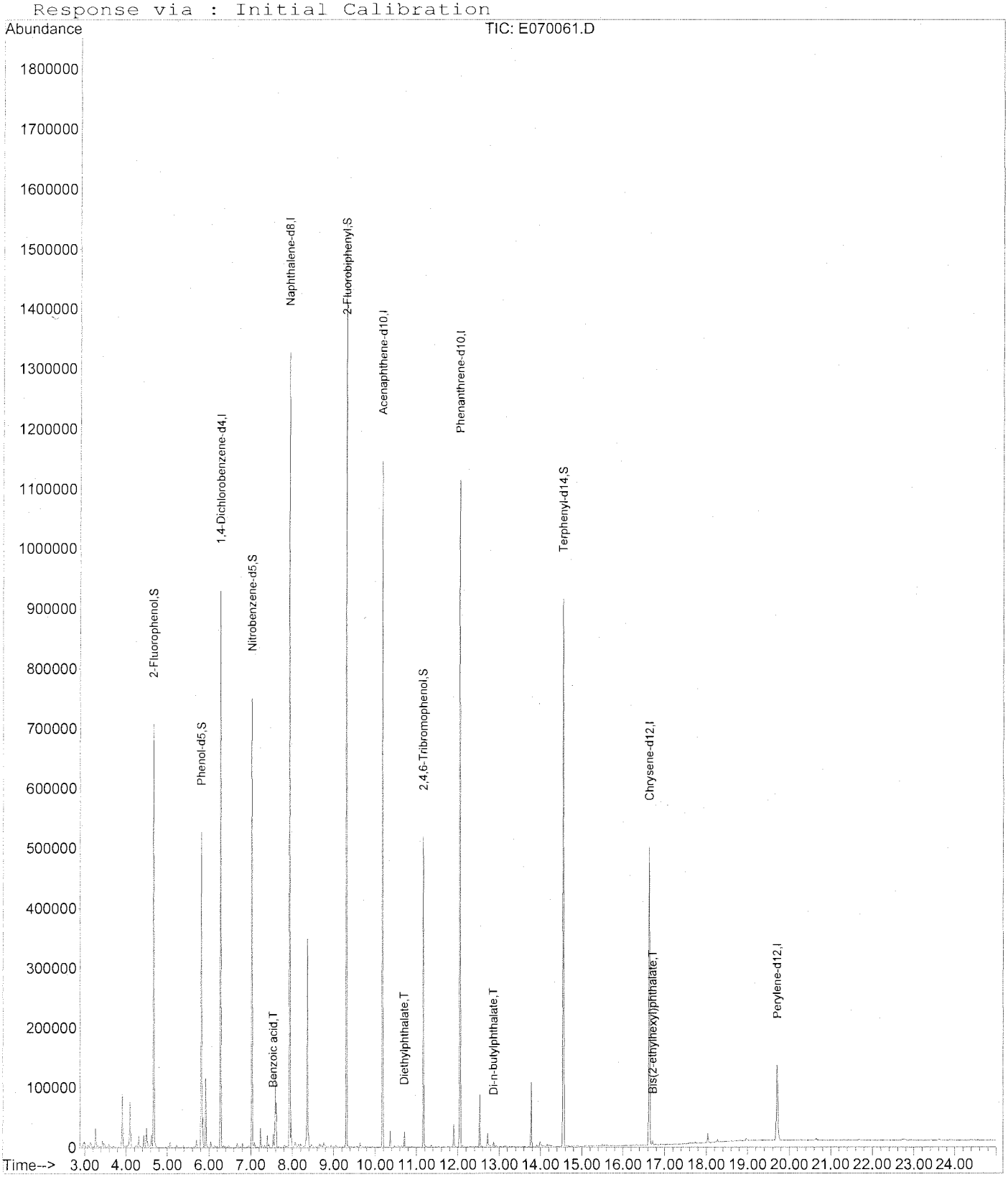
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	176642	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	688601	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	122914	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	563247	40.00	mg/L	-0.10
70) Chrysene-d12	16.64	240	273890	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	51673	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	234104	41.63	mg/L	-0.06
Spiked Amount 50.000			Recovery =	83.26%		
7) Phenol-d5	5.82	99	16600	2.28	mg/L	-0.05
Spiked Amount 50.000			Recovery =	4.56%		
23) Nitrobenzene-d5	7.03	82	282073	48.48	mg/L	-0.08
Spiked Amount 50.000			Recovery =	96.96%		
41) 2-Fluorobiphenyl	9.30	172	567659	146.47	mg/L	-0.09
Spiked Amount 50.000			Recovery =	292.94%		
61) 2,4,6-Tribromophenol	11.17	330	57228	42.36	mg/L	-0.10
Spiked Amount 50.000			Recovery =	84.72%		
73) Terphenyl-d14	14.55	244	412796	53.93	mg/L	-0.13
Spiked Amount 50.000			Recovery =	107.86%		
Target Compounds						Qvalue
28) Benzoic acid	7.54	122	4150	1.13	mg/L #	82
54) Diethylphthalate	10.71	149	6760	1.77	mg/L	98
68) Di-n-butylphthalate	12.86	149	5218	0.30	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	16.72	149	3129	0.45	mg/L #	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070061.D Vial: 14
Acq On : 18 Jan 2007 7:36 pm Operator: GJ
Sample : D0700056-008 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:01 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070061.D Vial: 14
Acq On : 18 Jan 2007 7:36 pm Operator: GJ
Sample : D0700056-008 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:55:29 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

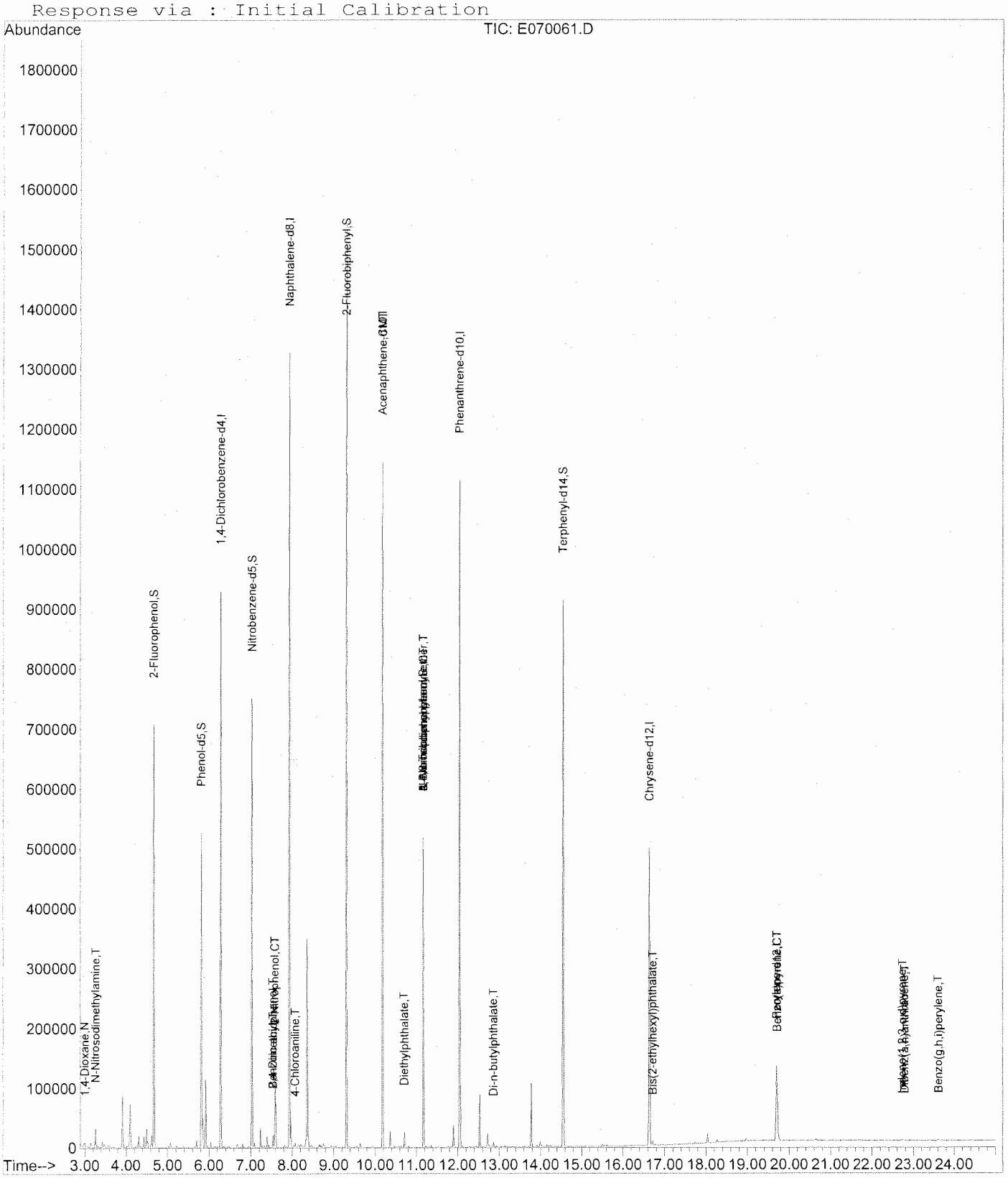
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	176642	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	688601	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	122914	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	563247	40.00	mg/L	-0.10
70) Chrysene-d12	16.64	240	273890	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	51673	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	234104	41.63	mg/L	-0.06
Spiked Amount 50.000			Recovery =	83.26%		
7) Phenol-d5	5.82	99	16600	2.28	mg/L	-0.05
Spiked Amount 50.000			Recovery =	4.56%		
23) Nitrobenzene-d5	7.03	82	282073	48.48	mg/L	-0.08
Spiked Amount 50.000			Recovery =	96.96%		
41) 2-Fluorobiphenyl	9.30	172	567659	146.47	mg/L	-0.09
Spiked Amount 50.000			Recovery =	292.94%		
61) 2,4,6-Tribromophenol	11.17	330	57228	42.36	mg/L	-0.10
Spiked Amount 50.000			Recovery =	84.72%		
73) Terphenyl-d14	14.55	244	412796	53.93	mg/L	-0.13
Spiked Amount 50.000			Recovery =	107.86%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	3883	1.50	mg/L	87
3) N-Nitrosodimethylamine	3.26	42	1372	0.41	mg/L #	1
26) 2-Nitrophenol	7.59	139	27684	8.04	mg/L #	29
27) 2,4-Dimethylphenol	7.54	122	4150	0.74	mg/L #	1
28) Benzoic acid	7.54	122	4150	1.13	mg/L #	82
33) 4-Chloroaniline	8.07	127	2913	0.46	mg/L #	47
48) Acenaphthene	10.18	154	2631	0.71	mg/L #	25
54) Diethylphthalate	10.71	149	6760	1.77	mg/L	98
59) N-Nitrosodiphenylamine	11.17	169	2536	0.32	mg/L #	36
62) 4-Bromophenyl phenyl ether	11.17	248	3593	1.21	mg/L #	1
68) Di-n-butylphthalate	12.86	149	5218	0.30	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	16.72	149	3129	0.45	mg/L #	93
84) Benzo(a)pyrene	19.72	252	360	0.24	mg/L #	1
85) Indeno(1,2,3-c,d)pyrene	22.72	276	2296	1.92	mg/L #	57
86) Dibenz(a,h)anthracene	22.78	278	1844	1.79	mg/L #	64
87) Benzo(g,h,i)perylene	23.61	276	2334	2.37	mg/L	93

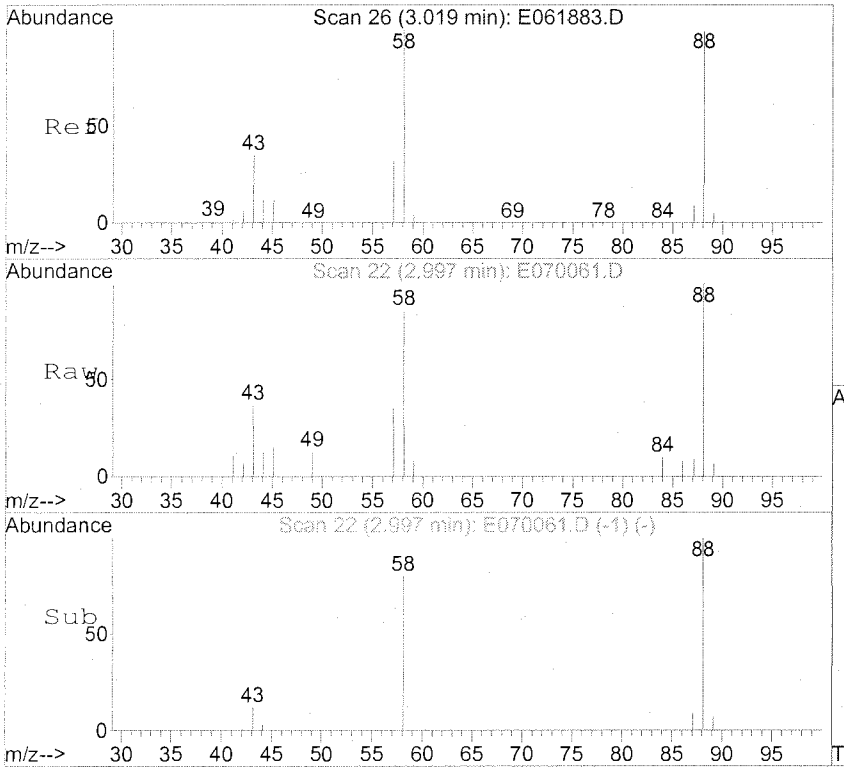
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070061.D Vial: 14
Acq On : 18 Jan 2007 7:36 pm Operator: GJ
Sample : D0700056-008 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:55 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

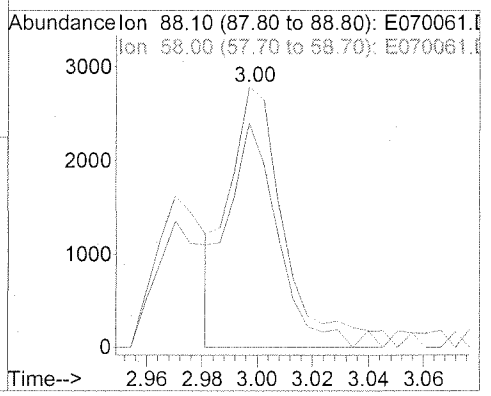


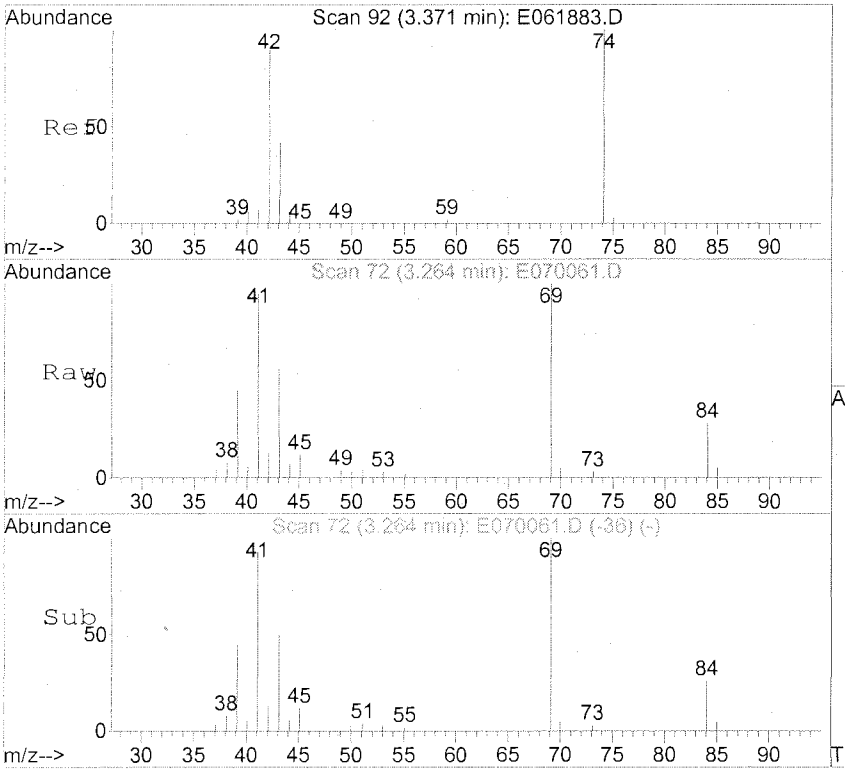


#2
1,4-Dioxane
Concen: 1.50 mg/L
RT: 3.00 min Scan# 22
Delta R.T. -0.02 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion: 88 Resp: 3883

Ion	Ratio	Lower	Upper
88	100		
58	77.4	53.5	80.3

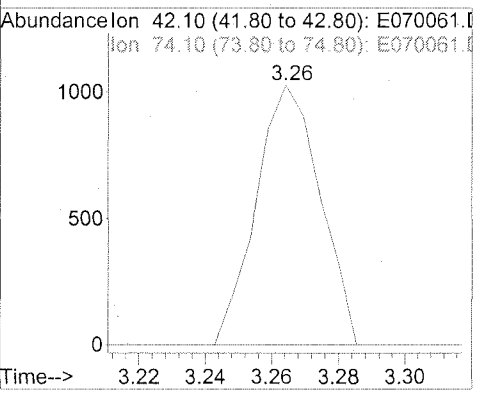


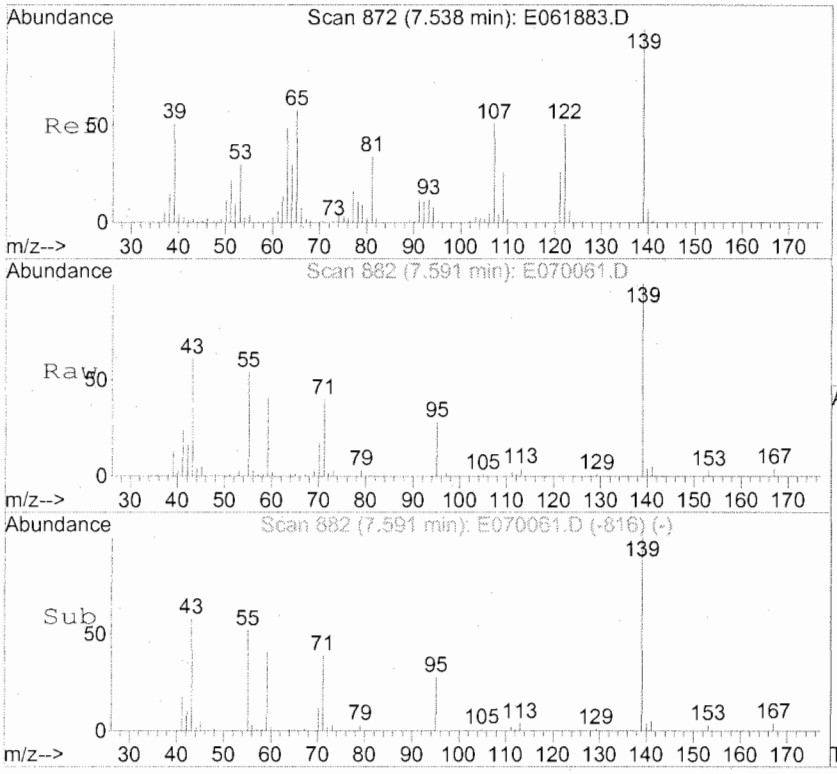


#3
N-Nitrosodimethylamine
Concen: 0.41 mg/L
RT: 3.26 min Scan# 72
Delta R.T. -0.11 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion: 42 Resp: 1372

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

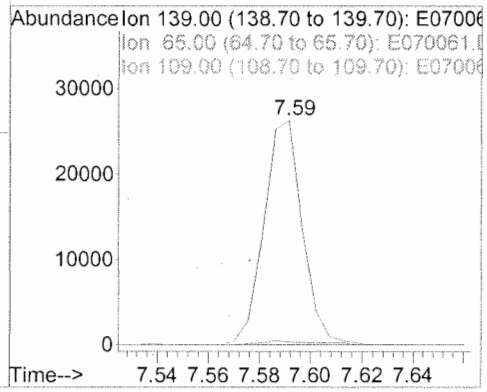


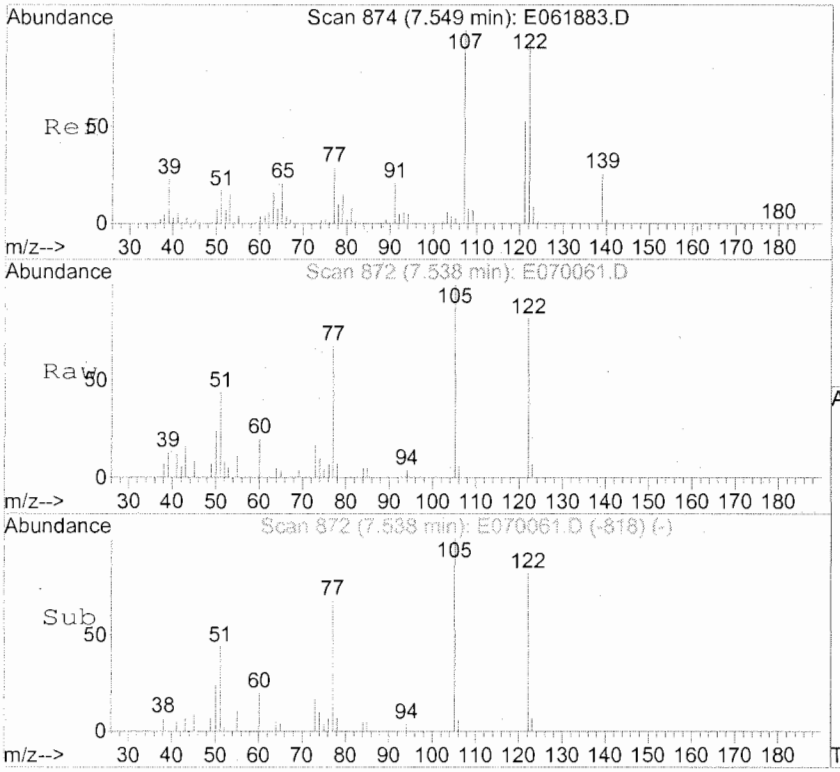


#26
2-Nitrophenol
Concen: 8.04 mg/L
RT: 7.59 min Scan# 882
Delta R.T. 0.05 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:139 Resp: 27684

Ion	Ratio	Lower	Upper
139	100		
65	2.6	47.3	70.9#
109	0.0	31.0	46.4#

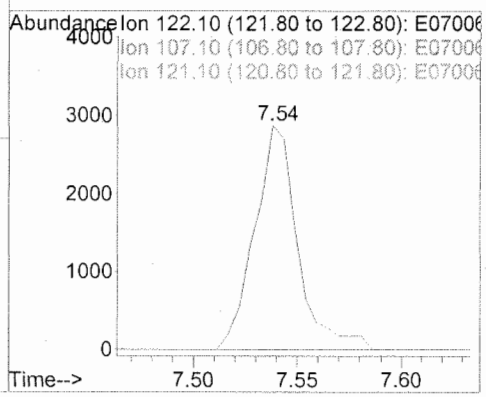


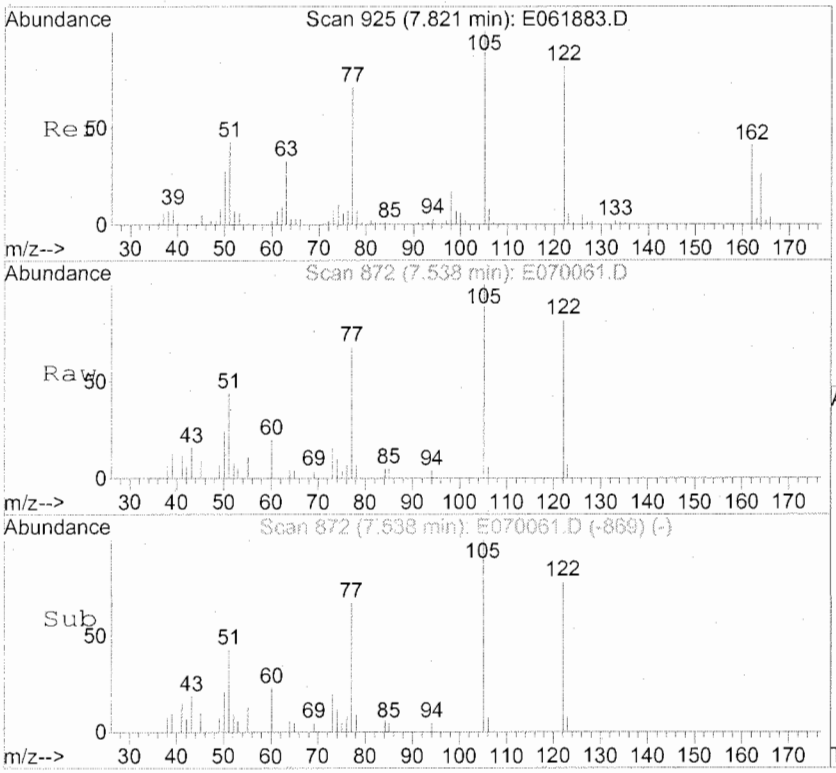


#27
2,4-Dimethylphenol
Concen: 0.74 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:122 Resp: 4150

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

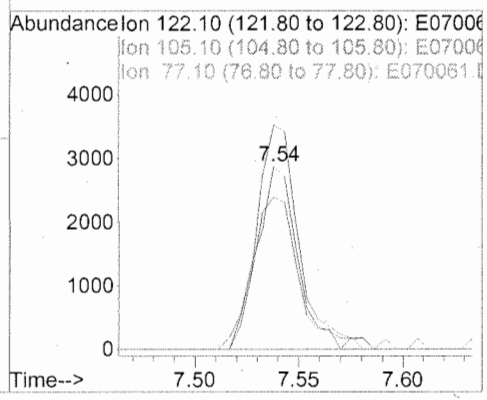


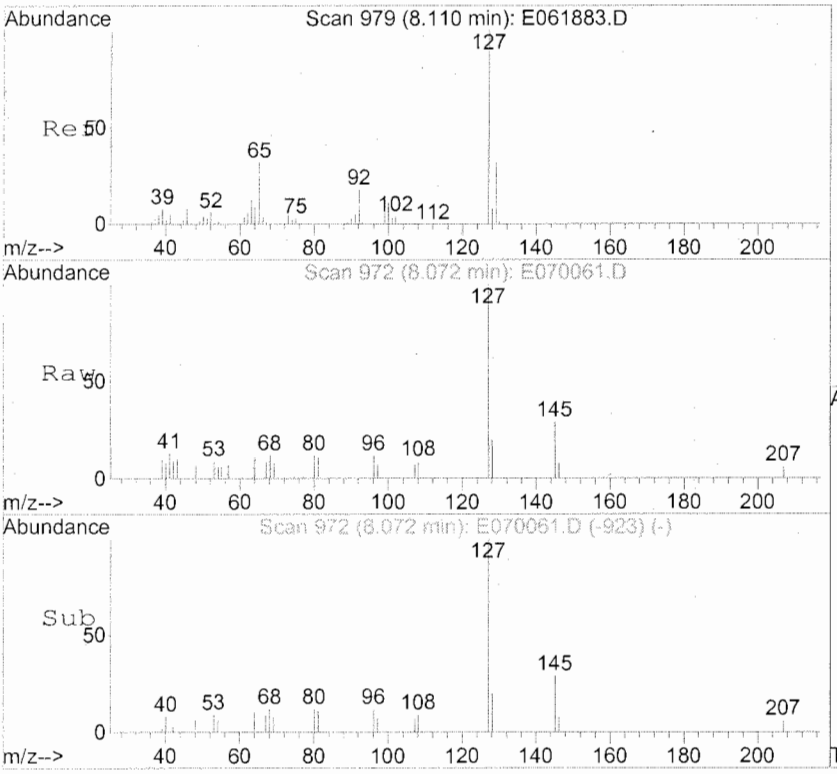


#28
Benzoic acid
Concen: 1.13 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.28 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:122 Resp: 4150

Ion	Ratio	Lower	Upper
122	100		
105	121.7	110.2	165.2
77	85.8	89.8	134.8#

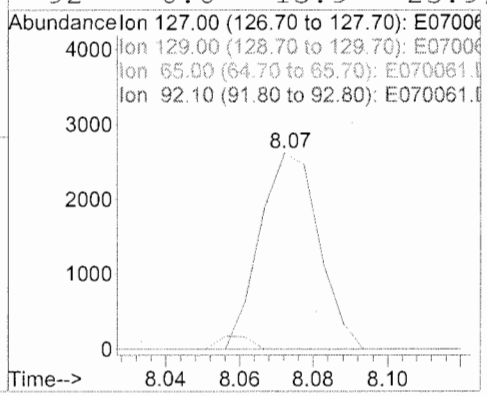


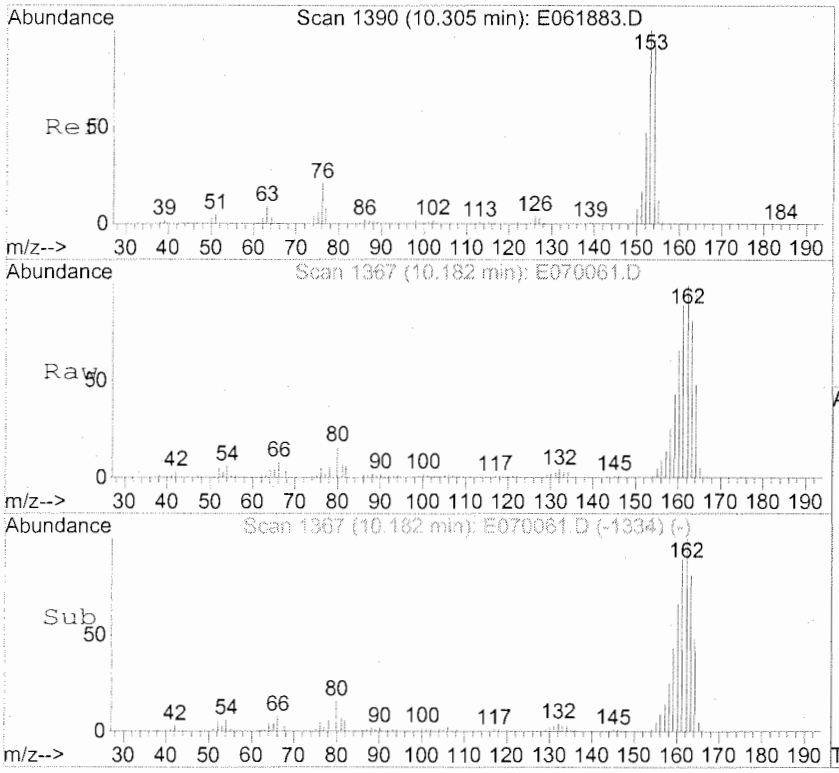


#33
4-Chloroaniline
Concen: 0.46 mg/L
RT: 8.07 min Scan# 972
Delta R.T. -0.04 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:127 Resp: 2913

Ion	Ratio	Lower	Upper
127	100		
129	3.7	25.9	38.9#
65	0.0	27.8	41.8#
92	0.0	15.9	23.9#

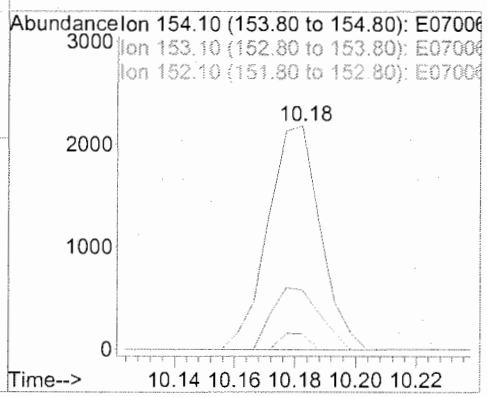


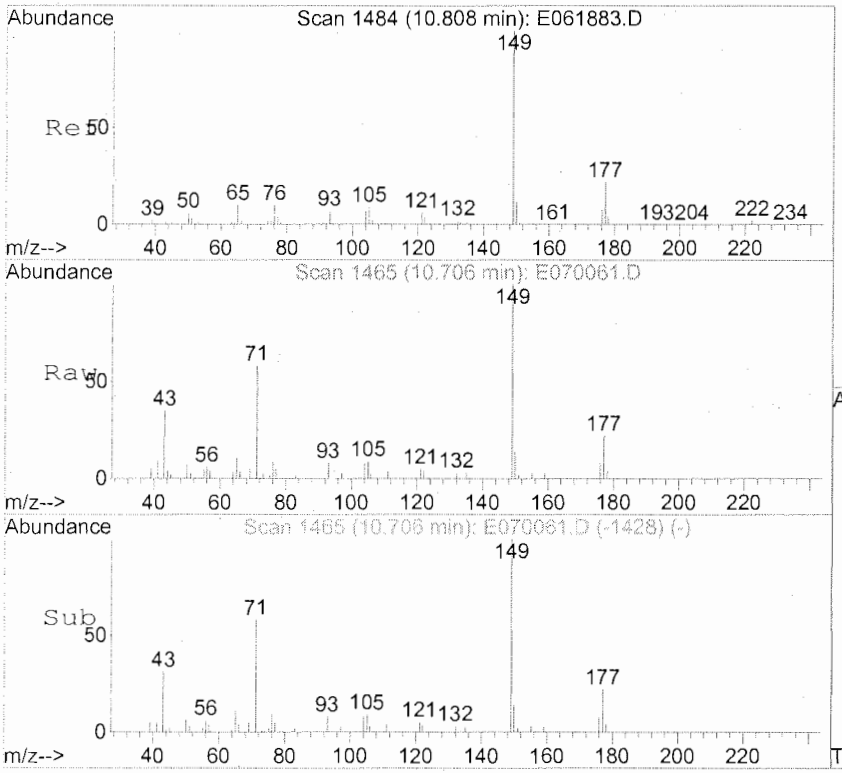


#48
Acenaphthene
Concen: 0.71 mg/L
RT: 10.18 min Scan# 1367
Delta R.T. -0.12 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:154 Resp: 2631

Ion	Ratio	Lower	Upper
154	100		
153	25.2	86.3	129.5#
152	3.8	39.8	59.8#

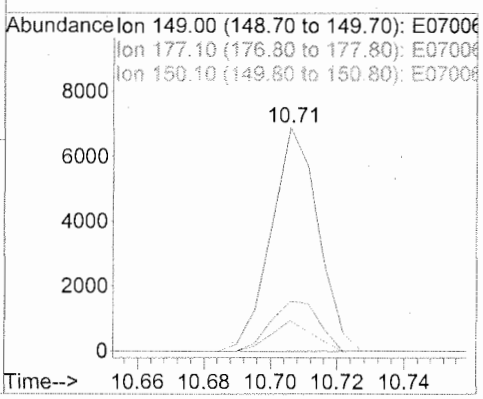


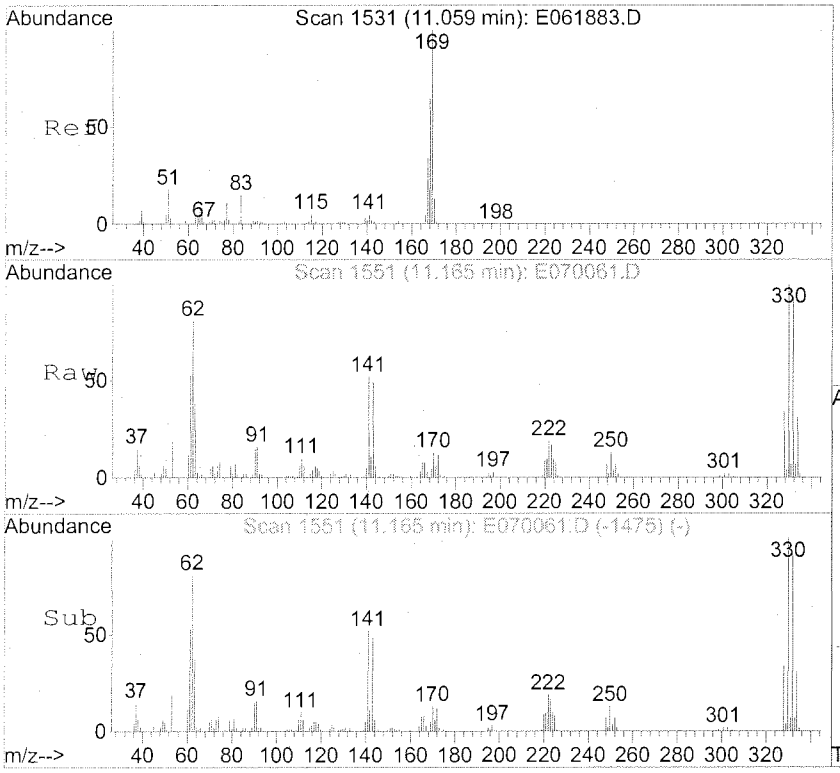


#54
Diethylphthalate
Concen: 1.77 mg/L
RT: 10.71 min Scan# 1465
Delta R.T. -0.10 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:149 Resp: 6760

Ion	Ratio	Lower	Upper
149	100		
177	23.0	19.0	28.6
150	12.0	10.0	15.0

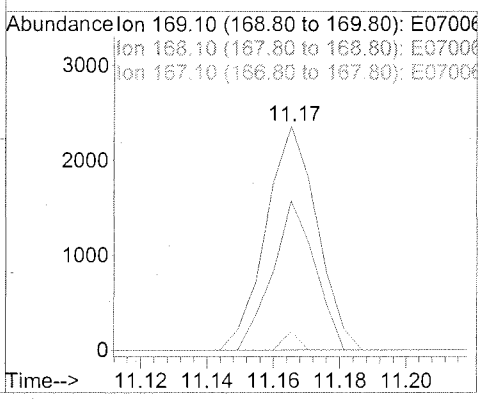


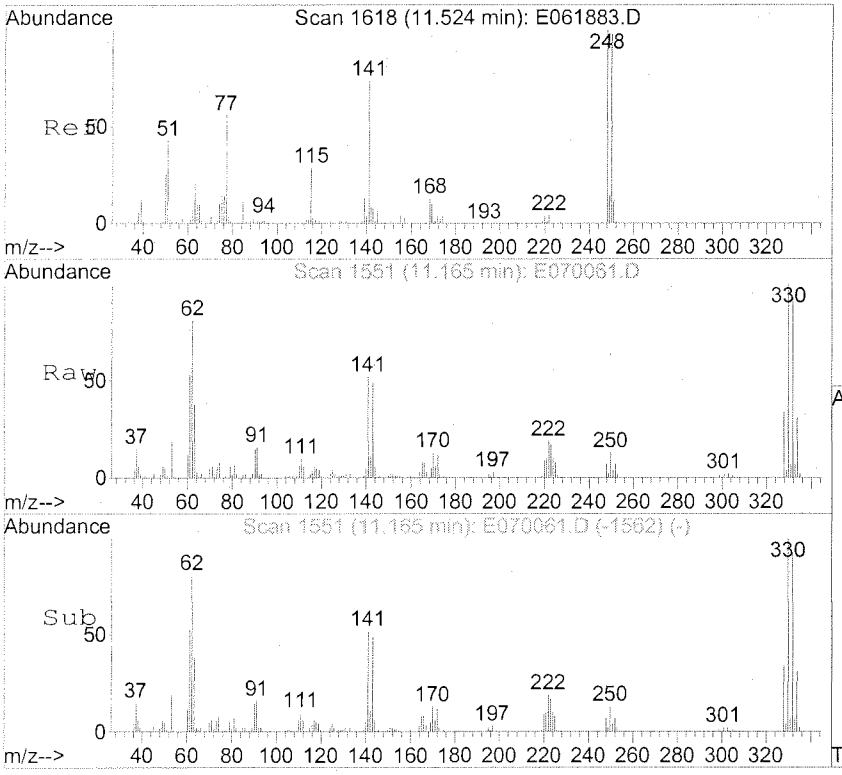


#59
N-Nitrosodiphenylamine
Concen: 0.32 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:169 Resp: 2536

Ion	Ratio	Lower	Upper
169	100		
168	2.5	50.8	76.2#
167	55.5	27.0	40.4#

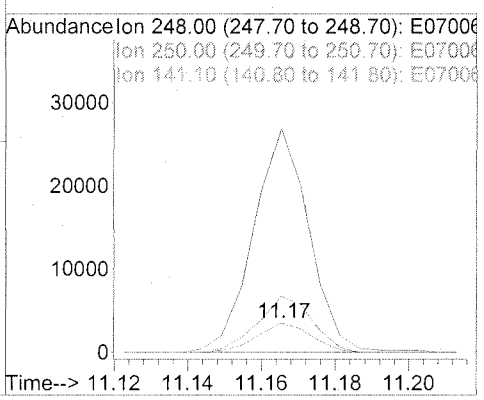


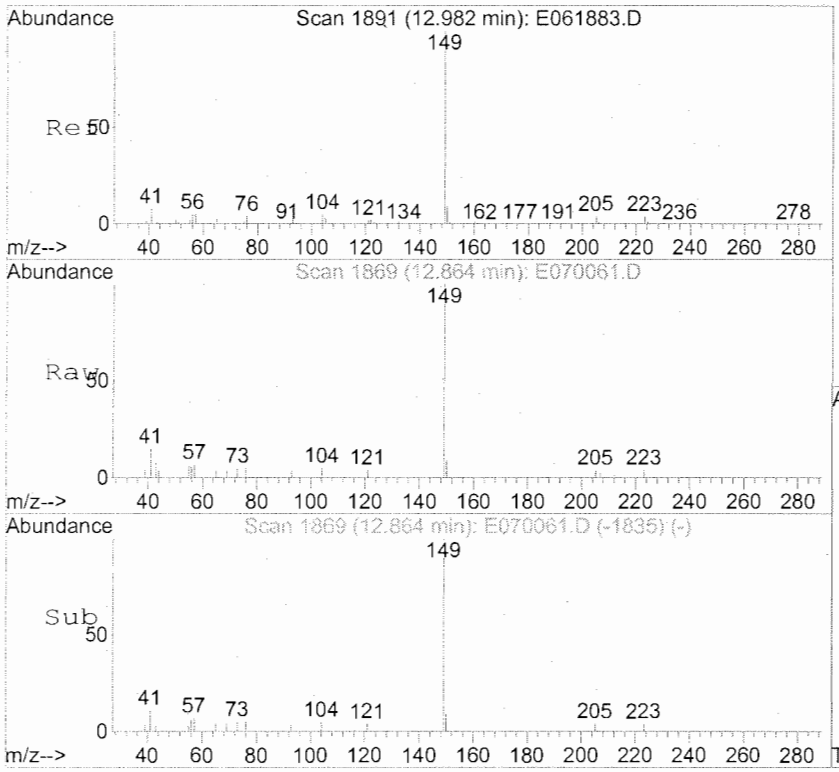


#62
4-Bromophenyl phenyl ether
Concen: 1.21 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:248 Resp: 3593

Ion	Ratio	Lower	Upper
248	100		
250	194.0	79.0	118.4#
141	786.1	64.3	96.5#

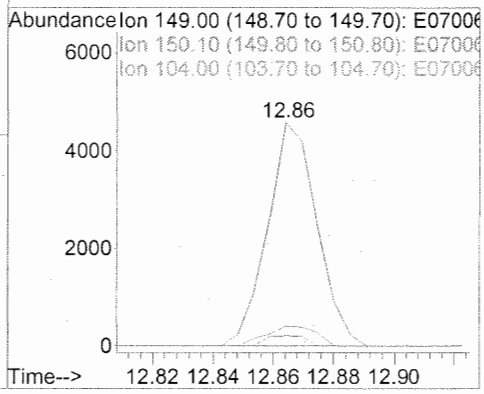


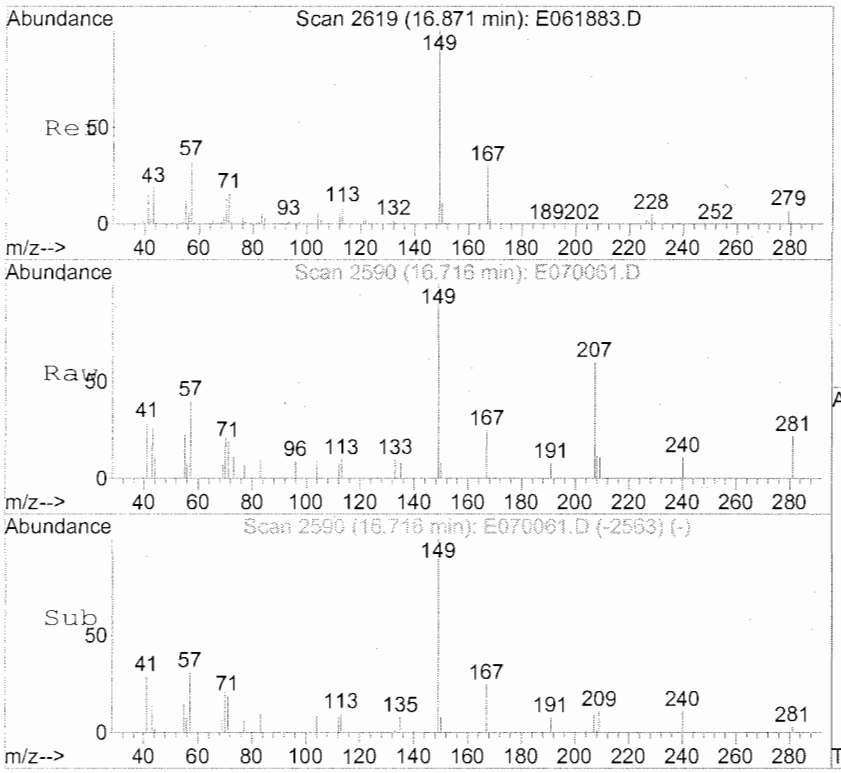


#68
Di-n-butylphthalate
Concen: 0.30 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:149 Resp: 5218

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	3.7	4.6	7.0#

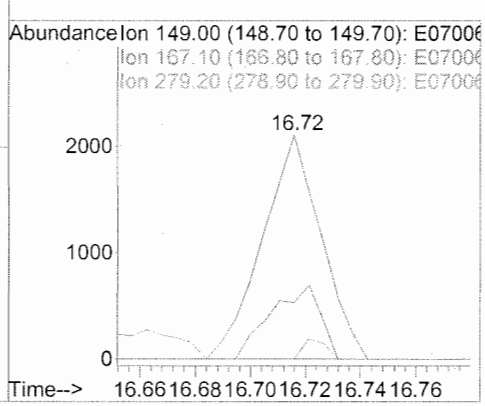


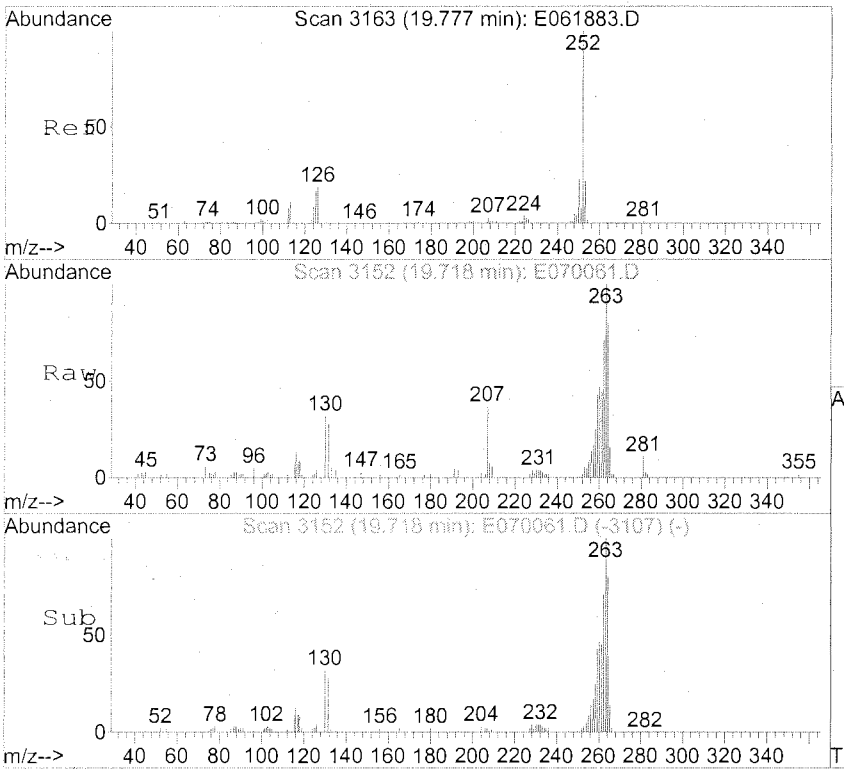


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.45 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.16 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:149 Resp: 3129

Ion	Ratio	Lower	Upper
149	100		
167	28.0	25.0	37.6
279	3.5	6.2	9.2#

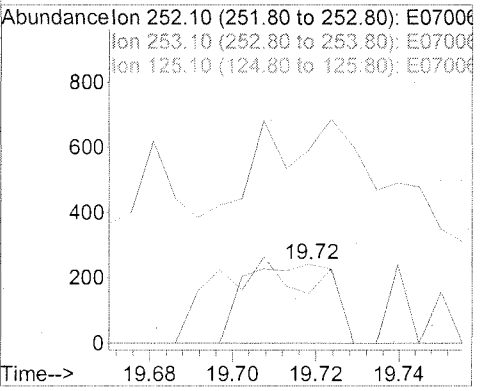


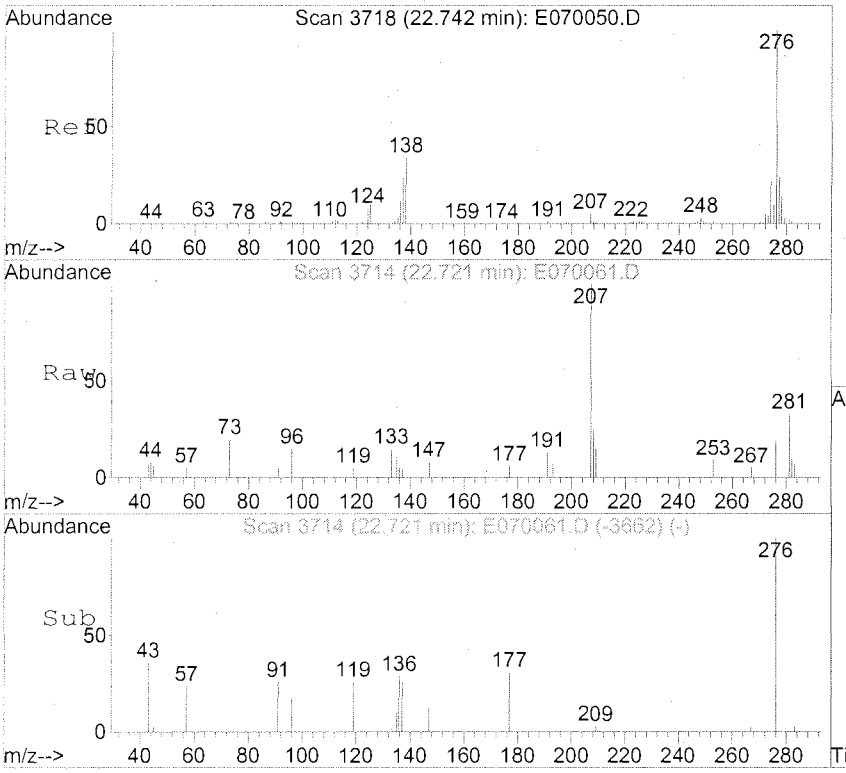


#84
Benzo(a)pyrene
Concen: 0.24 mg/L
RT: 19.72 min Scan# 3152
Delta R.T. -0.06 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:252 Resp: 360

Ion	Ratio	Lower	Upper
252	100		
253	220.8	18.2	27.2#
125	121.7	7.4	11.0#

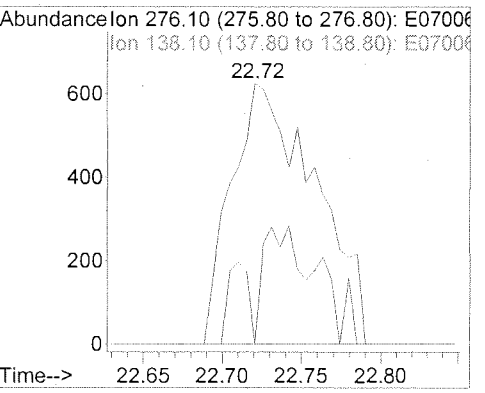


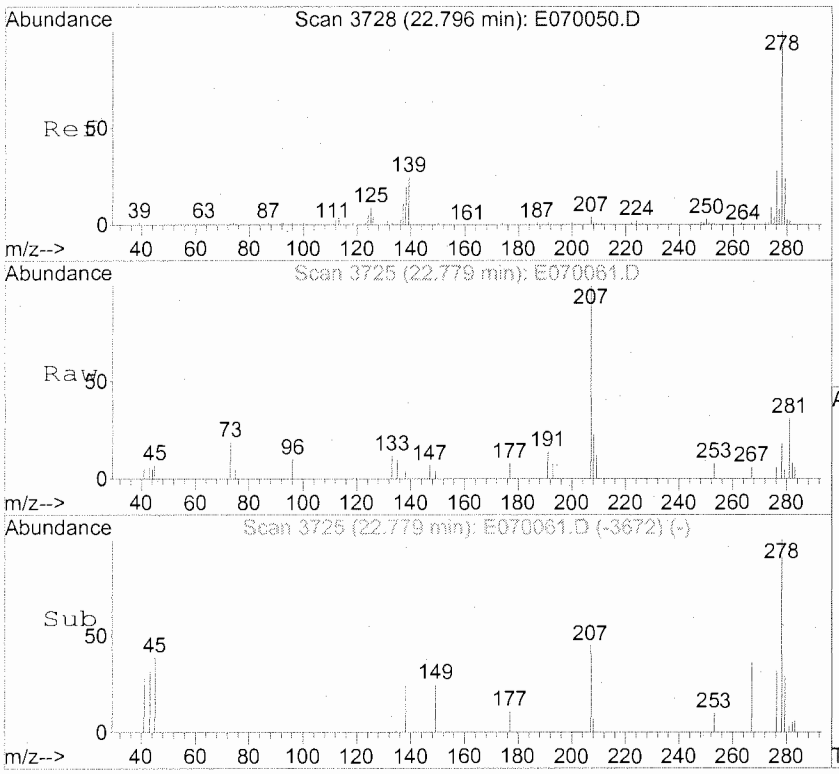


#85
Indeno(1,2,3-c,d)pyrene
Concen: 1.92 mg/L
RT: 22.72 min Scan# 3714
Delta R.T. -0.02 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:276 Resp: 2296

Ion	Ratio	Lower	Upper
276	100		
138	7.7	25.4	38.0#

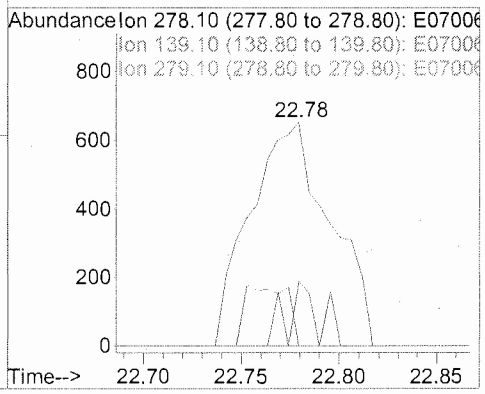


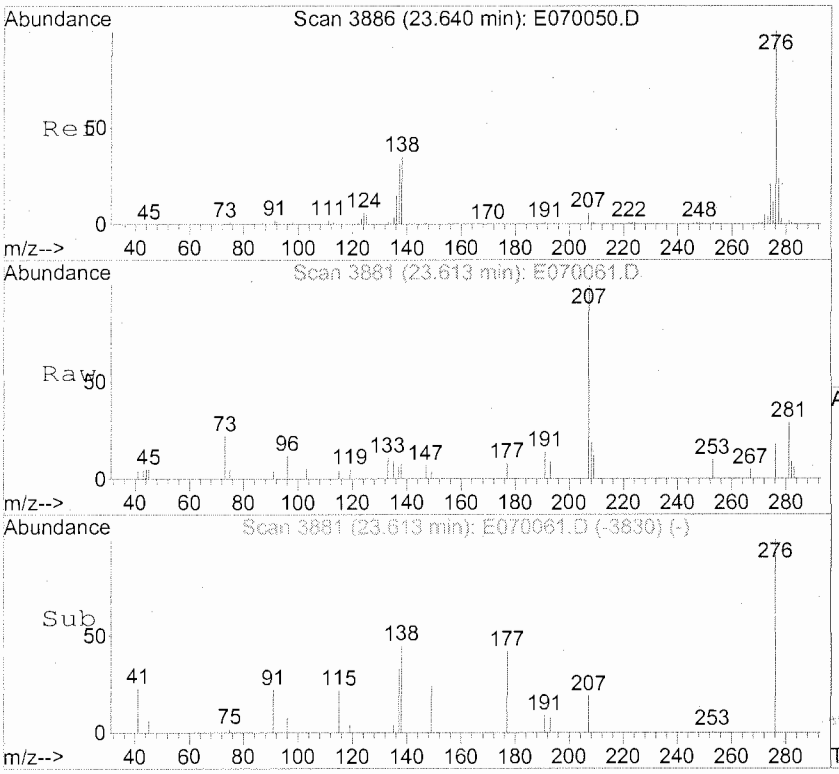


#86
Dibenz(a,h)anthracene
Concen: 1.79 mg/L
RT: 22.78 min Scan# 3725
Delta R.T. -0.02 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:278 Resp: 1844

Ion	Ratio	Lower	Upper
278	100		
139	2.8	18.0	27.0#
279	8.6	19.4	29.0#

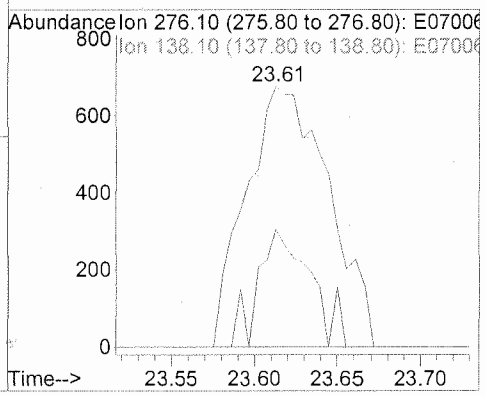




#87
Benzo(g,h,i)perylene
Concen: 2.37 mg/L
RT: 23.61 min Scan# 3881
Delta R.T. -0.03 min
Lab File: E070061.D
Acq: 18 Jan 2007 7:36 pm

Tgt Ion:276 Resp: 2334

Ion	Ratio	Lower	Upper
276	100		
138	28.9	26.2	39.2



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/10/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76116	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070062.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 20:08	**Quant Date:**	01/19/2007 09:03	**Vial:**	15
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-009			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	133599	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	527159	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	291384	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	450054	40.00	OK
5	Chrysene-d12	16.63	-0.02?	240	225590	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	107956	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	173367	40.76	82	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	216640	39.30	79	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	209268	46.98	94	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	428845	46.68	93	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	43620	40.41	81	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	322631	51.17	102	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.96	0.01	0.00	88	12230	6.25	6.0		
1	N-Nitrosodimethylamine				42	0d		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0d		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070062.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 20:08	**Quant Date:**	01/19/2007 09:03	**Vial:**	15
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-009			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	3054	1.09	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0d		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070062.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 20:08	**Quant Date:**	01/19/2007 09:03	**Vial:**	15
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-009			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.87	-0.01	0.00	149	5011	0.3600	0.34	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	4295	0.7500	0.71	J	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070062.D Vial: 15
Acq On : 18 Jan 2007 8:08 pm Operator: GJ
Sample : D0700056-009 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:01:41 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

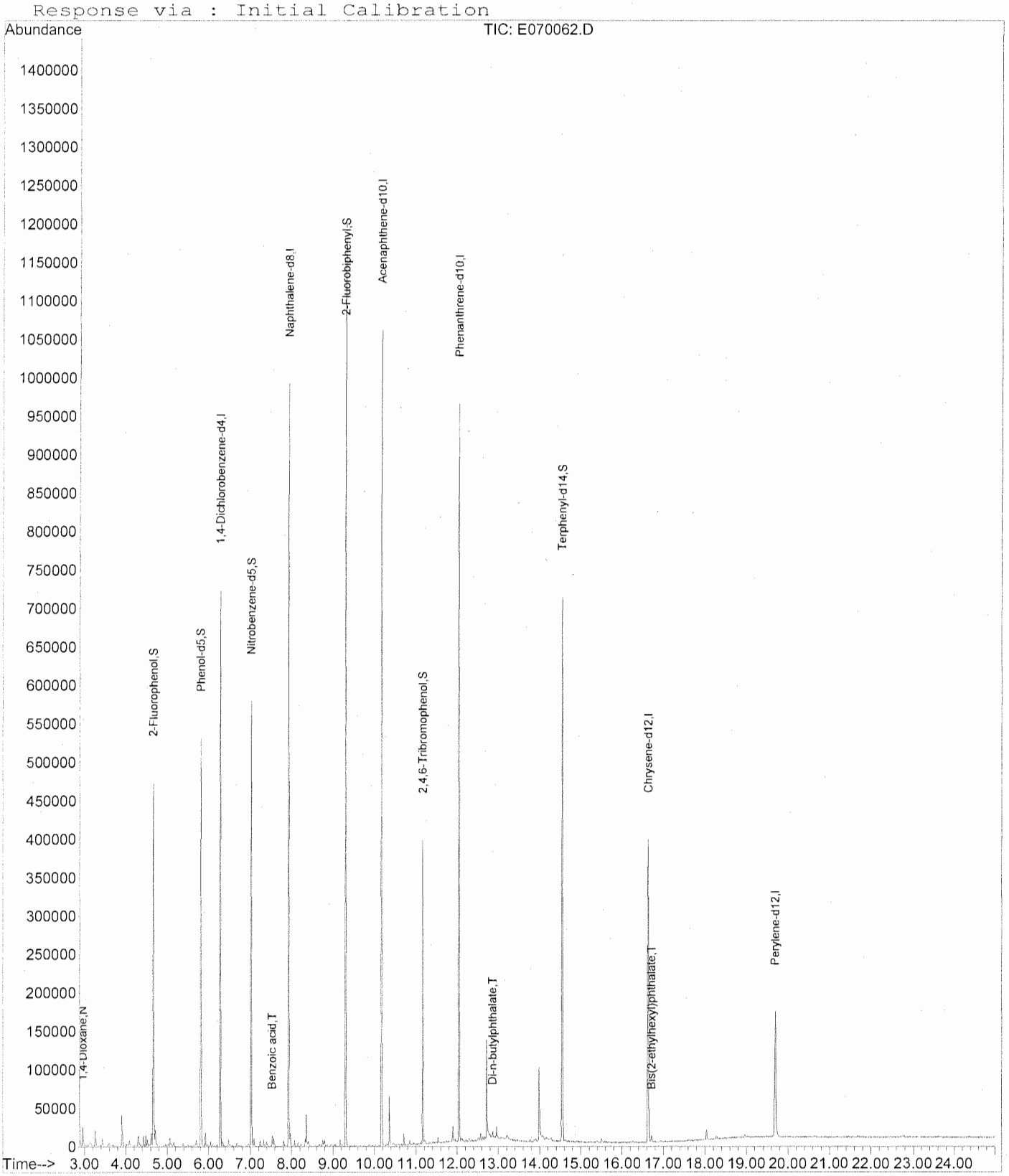
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	133599	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	527159	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	291384	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	450054	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	225590	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	107956	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	173367	40.76	mg/L	-0.06
Spiked Amount 50.000			Recovery =	81.52%		
7) Phenol-d5	5.81	99	216640	39.30	mg/L	-0.06
Spiked Amount 50.000			Recovery =	78.60%		
23) Nitrobenzene-d5	7.03	82	209268	46.98	mg/L	-0.08
Spiked Amount 50.000			Recovery =	93.96%		
41) 2-Fluorobiphenyl	9.30	172	428845	46.68	mg/L	-0.09
Spiked Amount 50.000			Recovery =	93.36%		
61) 2,4,6-Tribromophenol	11.17	330	43620	40.41	mg/L	-0.10
Spiked Amount 50.000			Recovery =	80.82%		
73) Terphenyl-d14	14.55	244	322631	51.17	mg/L	-0.13
Spiked Amount 50.000			Recovery =	102.34%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	12230	6.25	mg/L #	82
28) Benzoic acid	7.54	122	3054	1.09	mg/L	85
68) Di-n-butylphthalate	12.87	149	5011	0.36	mg/L #	94
78) Bis(2-ethylhexyl)phthalate	16.72	149	4295	0.75	mg/L #	92

a 1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E070118\E070062.D Vial: 15
Acq On : 18 Jan 2007 8:08 pm Operator: GJ
Sample : D0700056-009 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:03 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070062.D Vial: 15
Acq On : 18 Jan 2007 8:08 pm Operator: GJ
Sample : D0700056-009 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:01:41 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

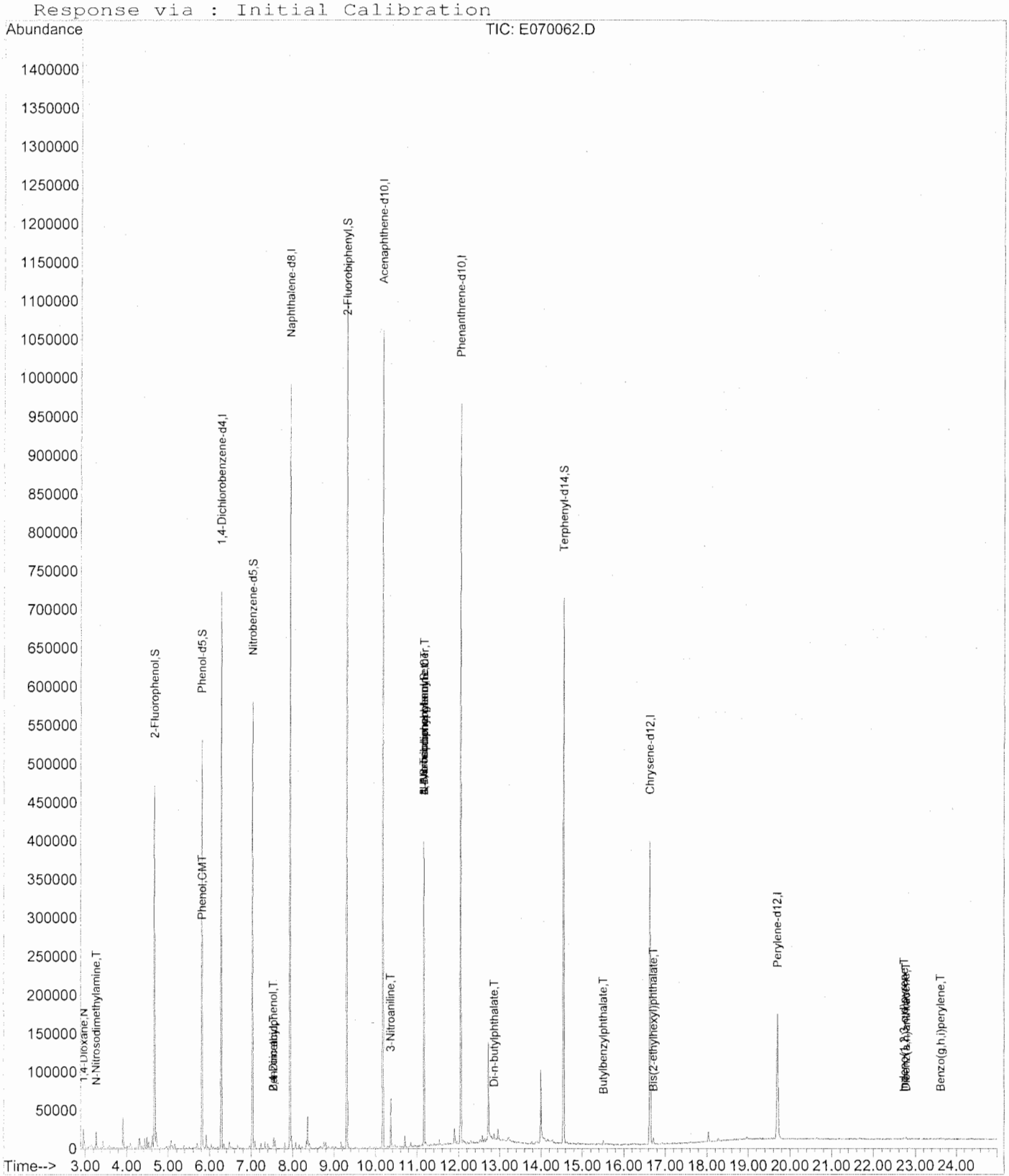
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	133599	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	527159	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	291384	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	450054	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	225590	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	107956	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	173367	40.76	mg/L	-0.06
Spiked Amount 50.000			Recovery =	81.52%		
7) Phenol-d5	5.81	99	216640	39.30	mg/L	-0.06
Spiked Amount 50.000			Recovery =	78.60%		
23) Nitrobenzene-d5	7.03	82	209268	46.98	mg/L	-0.08
Spiked Amount 50.000			Recovery =	93.96%		
41) 2-Fluorobiphenyl	9.30	172	428845	46.68	mg/L	-0.09
Spiked Amount 50.000			Recovery =	93.36%		
61) 2,4,6-Tribromophenol	11.17	330	43620	40.41	mg/L	-0.10
Spiked Amount 50.000			Recovery =	80.82%		
73) Terphenyl-d14	14.55	244	322631	51.17	mg/L	-0.13
Spiked Amount 50.000			Recovery =	102.34%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	12230	6.25	mg/L #	82
3) N-Nitrosodimethylamine	3.26	42	896	0.35	mg/L #	1
8) Phenol	5.83	94	1328	0.23	mg/L #	1
27) 2,4-Dimethylphenol	7.54	122	3054	0.72	mg/L #	1
28) Benzoic acid	7.54	122	3054	1.09	mg/L	85
47) 3-Nitroaniline	10.36	138	276	1.93	mg/L #	1
59) N-Nitrosodiphenylamine	11.17	169	1944	0.30	mg/L #	41
62) 4-Bromophenyl phenyl ether	11.17	248	2722	1.15	mg/L #	1
68) Di-n-butylphthalate	12.87	149	5011	0.36	mg/L #	94
74) Butylbenzylphthalate	15.51	149	1743	0.40	mg/L #	90
78) Bis(2-ethylhexyl)phthalate	16.72	149	4295	0.75	mg/L #	92
85) Indeno(1,2,3-c,d)pyrene	22.73	276	2123	0.85	mg/L #	70
86) Dibenz(a,h)anthracene	22.77	278	1964	0.91	mg/L #	64
87) Benzo(g,h,i)perylene	23.61	276	2036	0.99	mg/L #	88

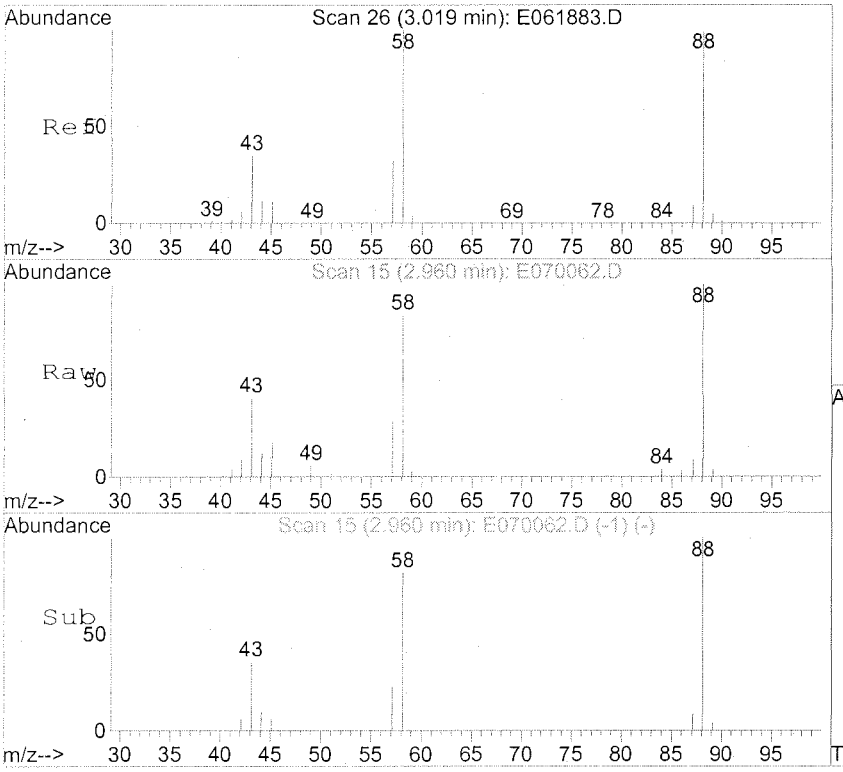
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070062.D Vial: 15
Acq On : 18 Jan 2007 8:08 pm Operator: GJ
Sample : D0700056-009 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:01 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

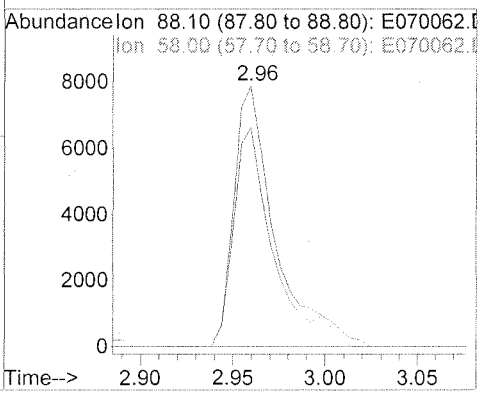


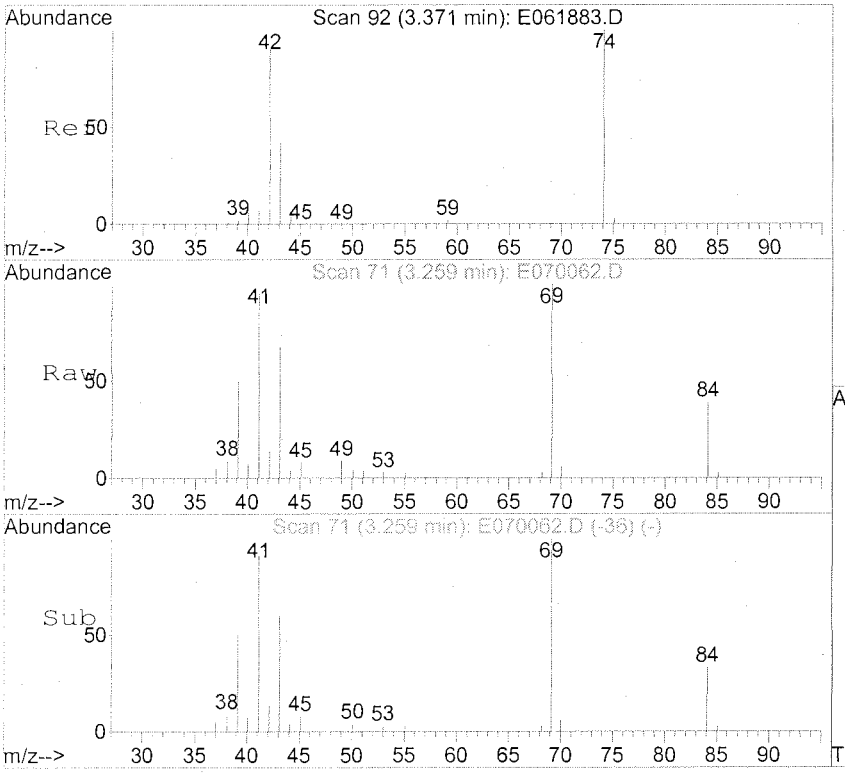


#2
1,4-Dioxane
Concen: 6.25 mg/L
RT: 2.96 min Scan# 15
Delta R.T. -0.06 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion: 88 Resp: 12230

Ion	Ratio	Lower	Upper
88	100		
58	81.1	53.5	80.3#

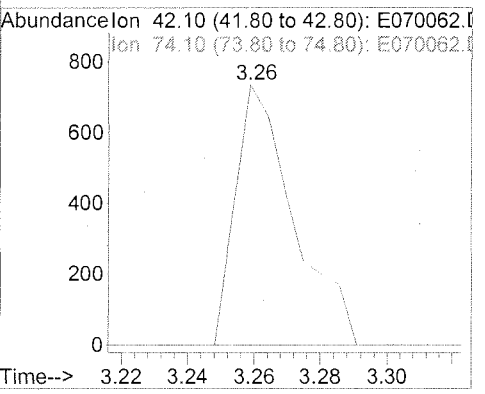


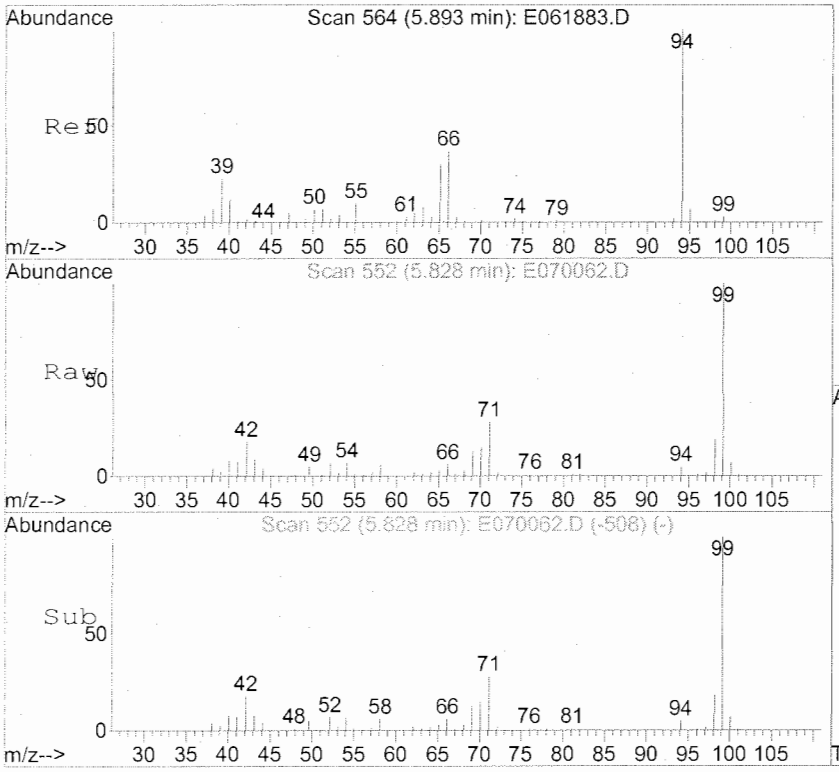


#3
N-Nitrosodimethylamine
Concen: 0.35 mg/L
RT: 3.26 min Scan# 71
Delta R.T. -0.11 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion: 42 Resp: 896

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

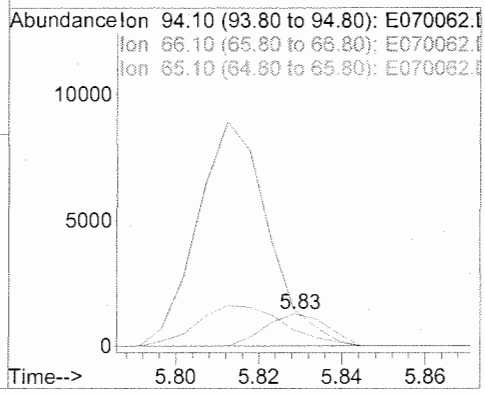


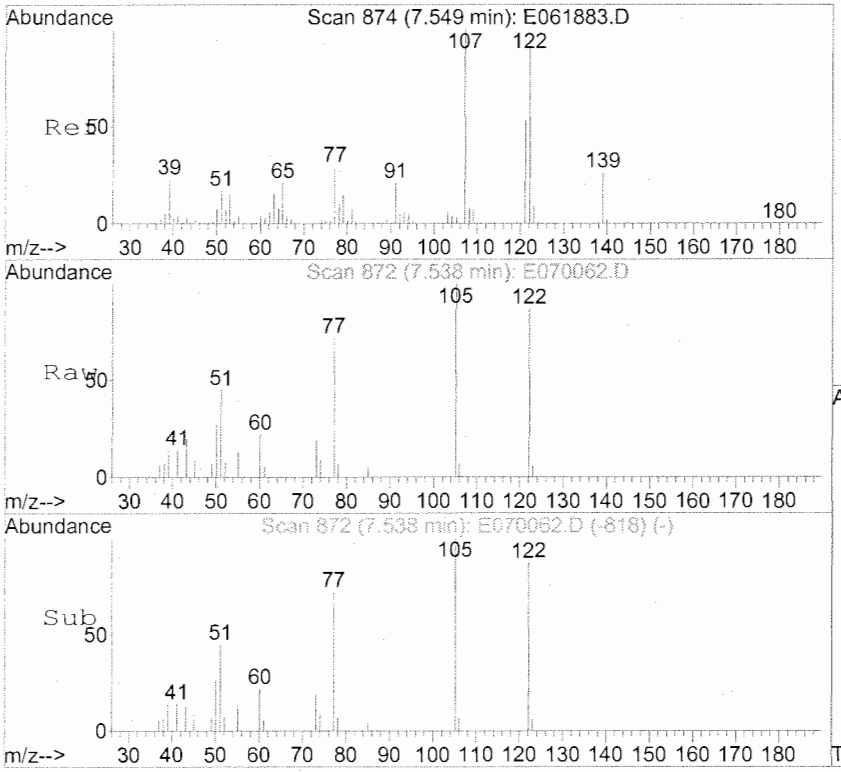


#8
Phenol
Concen: 0.23 mg/L
RT: 5.83 min Scan# 552
Delta R.T. -0.06 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion: 94 Resp: 1328

Ion	Ratio	Lower	Upper
94	100		
66	800.5	38.3	57.5#
65	178.5	27.1	40.7#

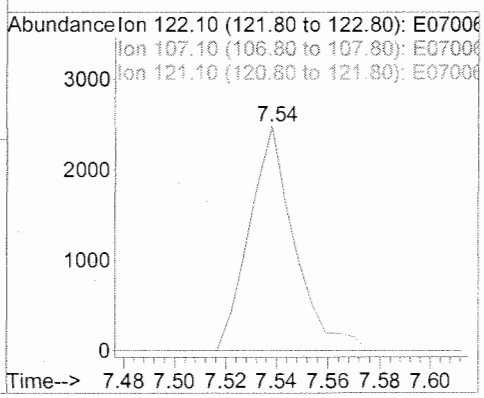


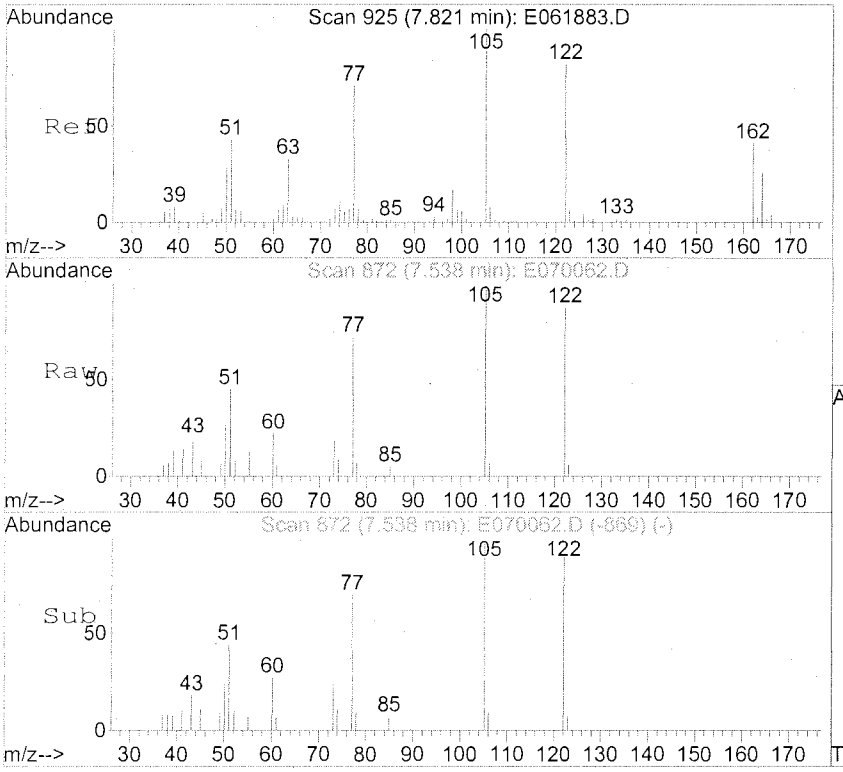


#27
2,4-Dimethylphenol
Concen: 0.72 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:122 Resp: 3054

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

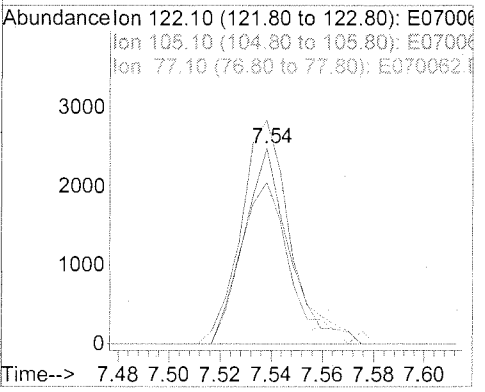


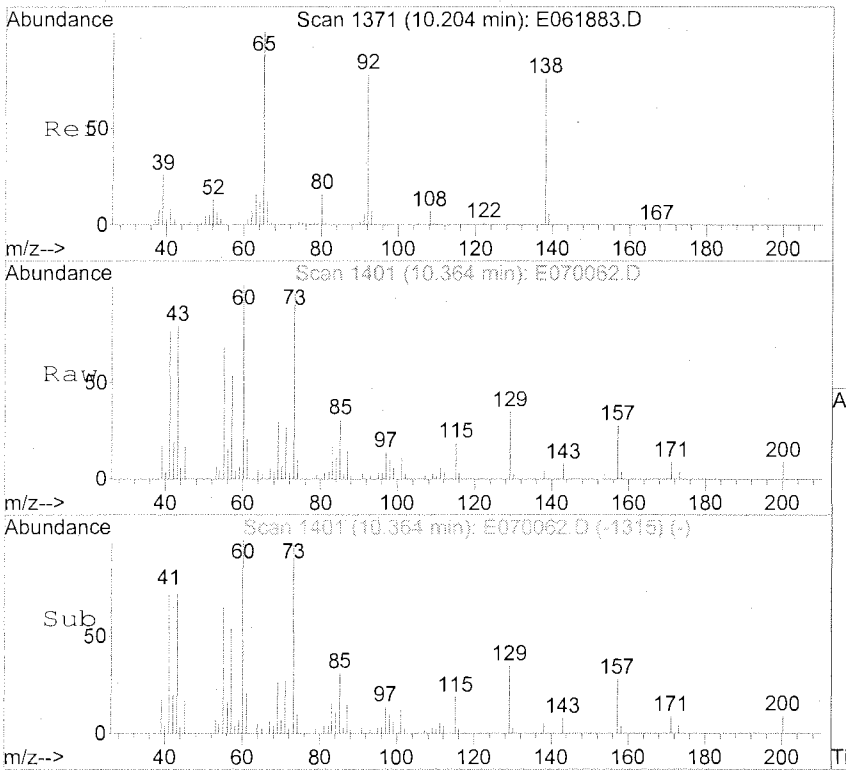


#28
Benzoic acid
Concen: 1.09 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.28 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:122 Resp: 3054

Ion	Ratio	Lower	Upper
122	100		
105	124.8	110.2	165.2
77	90.9	89.8	134.8

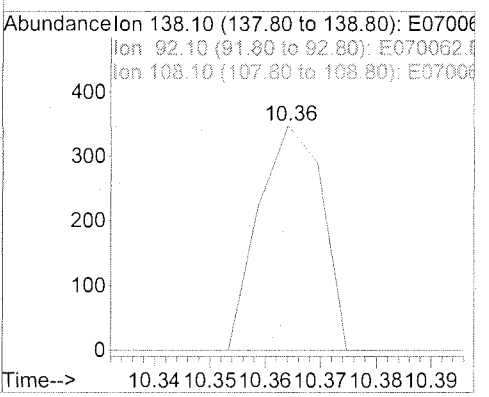


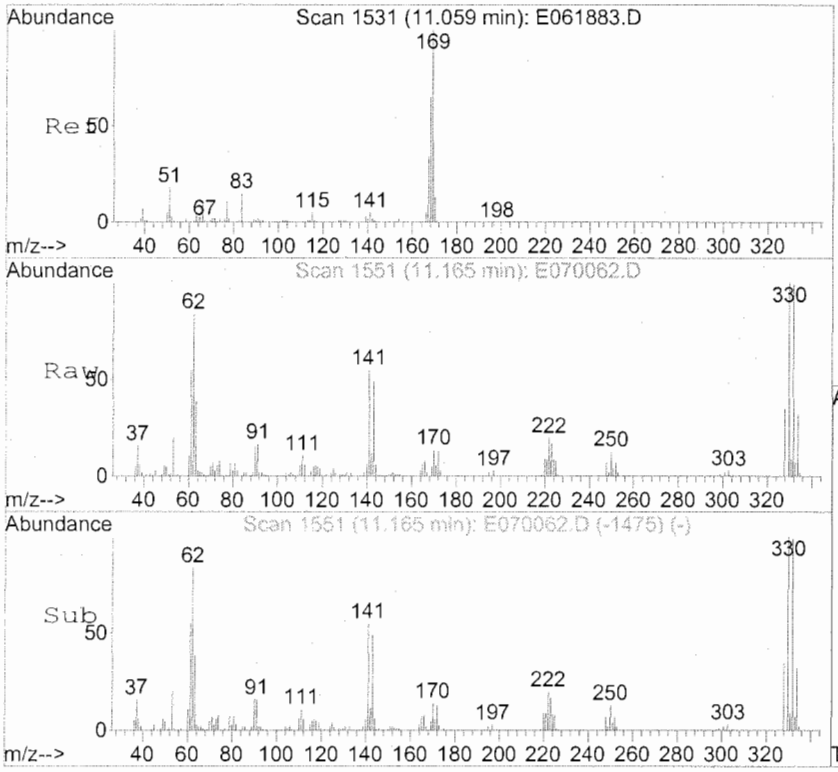


#47
3-Nitroaniline
Concen: 1.93 mg/L
RT: 10.36 min Scan# 1401
Delta R.T. 0.16 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:138 Resp: 276

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

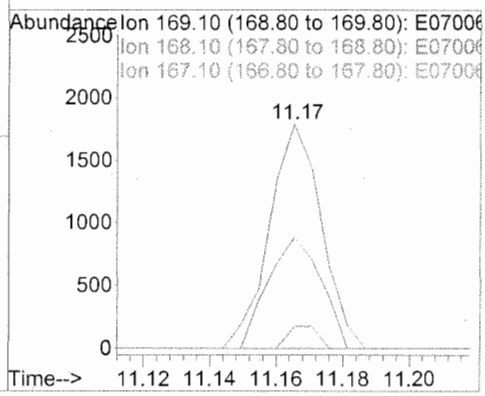


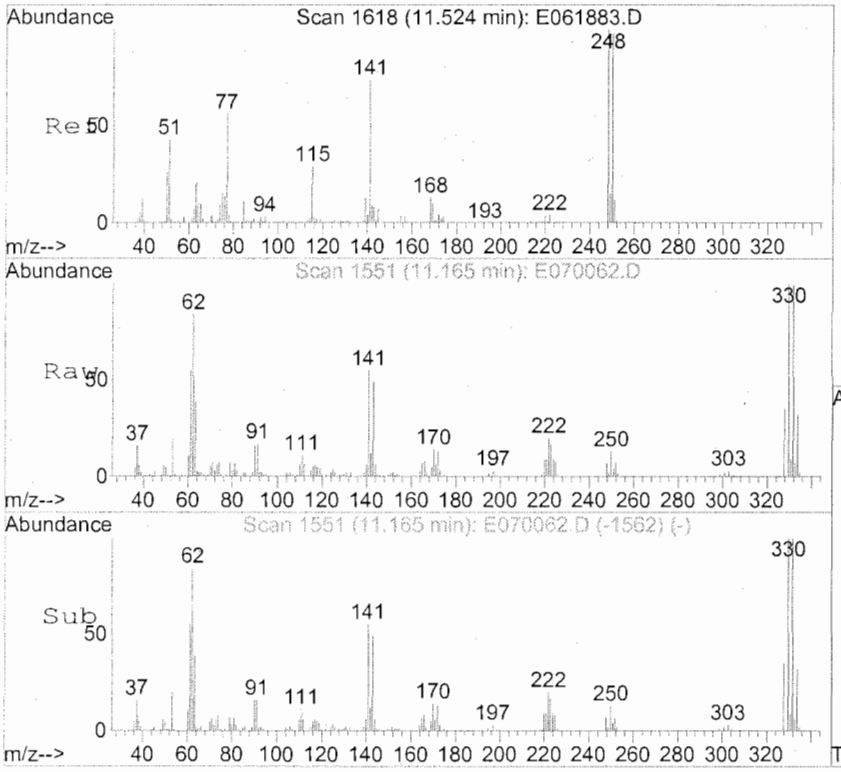


#59
N-Nitrosodiphenylamine
Concen: 0.30 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:169 Resp: 1944

Ion	Ratio	Lower	Upper
169	100		
168	5.7	50.8	76.2#
167	50.3	27.0	40.4#

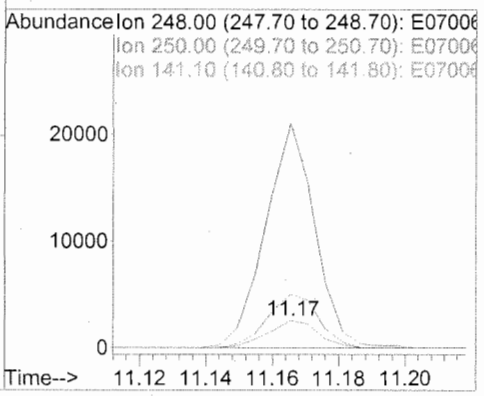


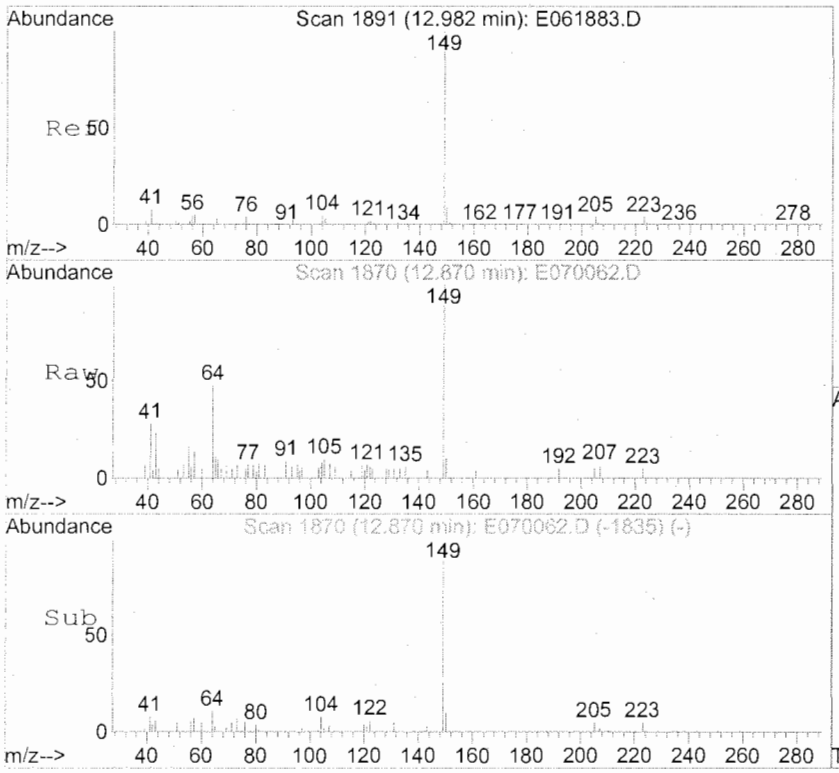


#62
4-Bromophenyl phenyl ether
Concen: 1.15 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:248 Resp: 2722

Ion	Ratio	Lower	Upper
248	100		
250	199.2	79.0	118.4#
141	803.3	64.3	96.5#

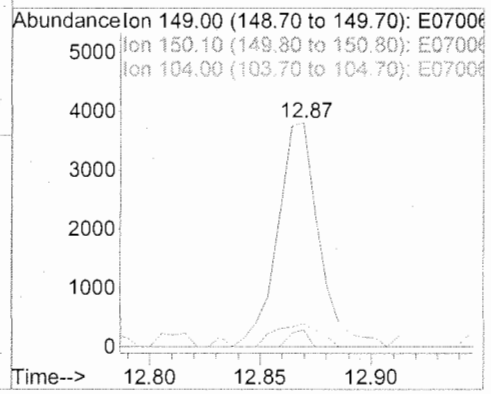


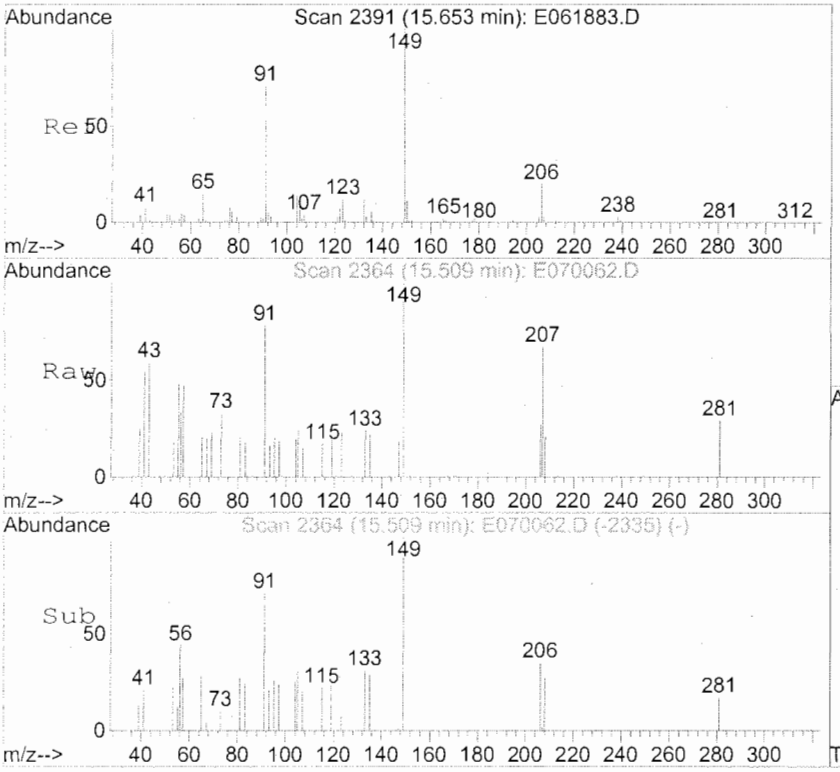


#68
Di-n-butylphthalate
Concen: 0.36 mg/L
RT: 12.87 min Scan# 1870
Delta R.T. -0.11 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:149 Resp: 5011

Ion	Ratio	Lower	Upper
149	100		
150	10.9	7.3	10.9
104	3.3	4.6	7.0#

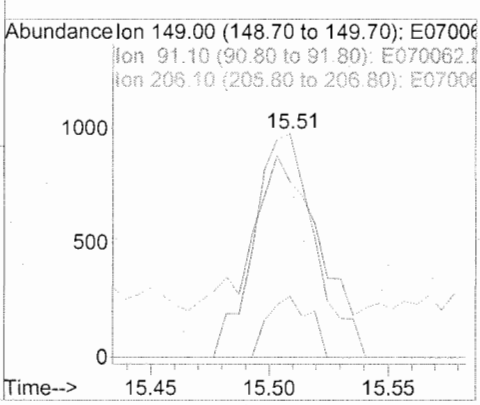


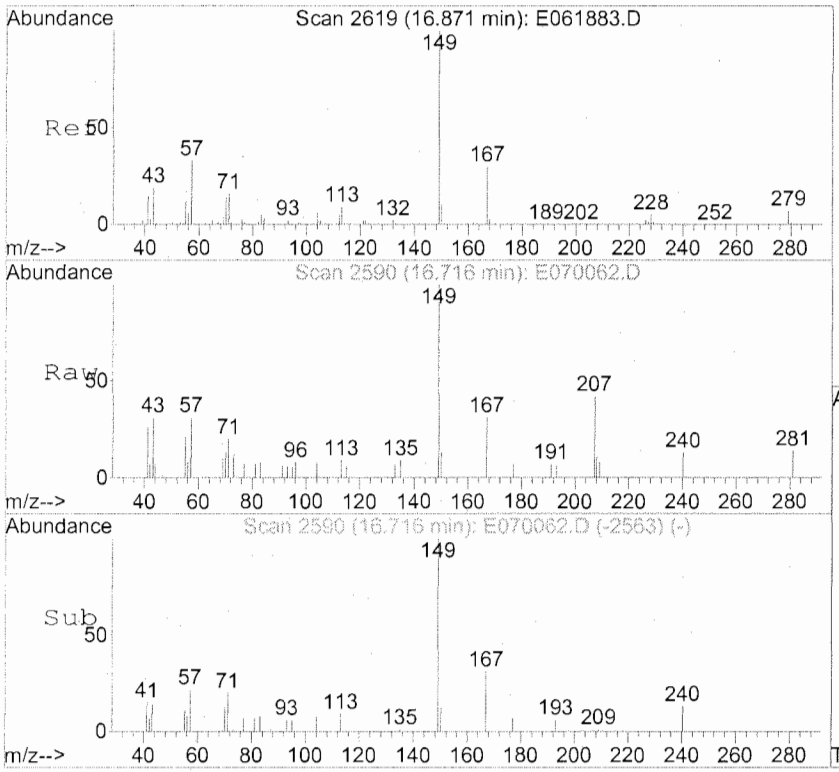


#74
Butylbenzylphthalate
Concen: 0.40 mg/L
RT: 15.51 min Scan# 2364
Delta R.T. -0.14 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:149 Resp: 1743

Ion	Ratio	Lower	Upper
149	100		
91	65.7	59.4	89.0
206	18.9	19.0	28.6#

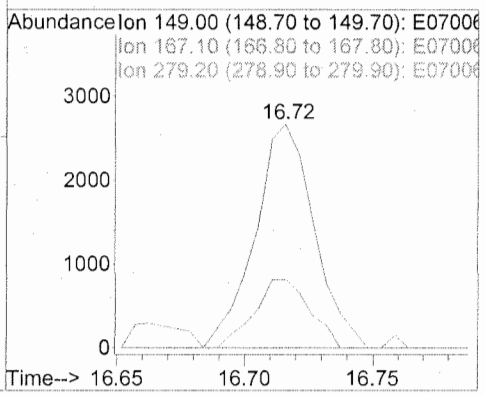


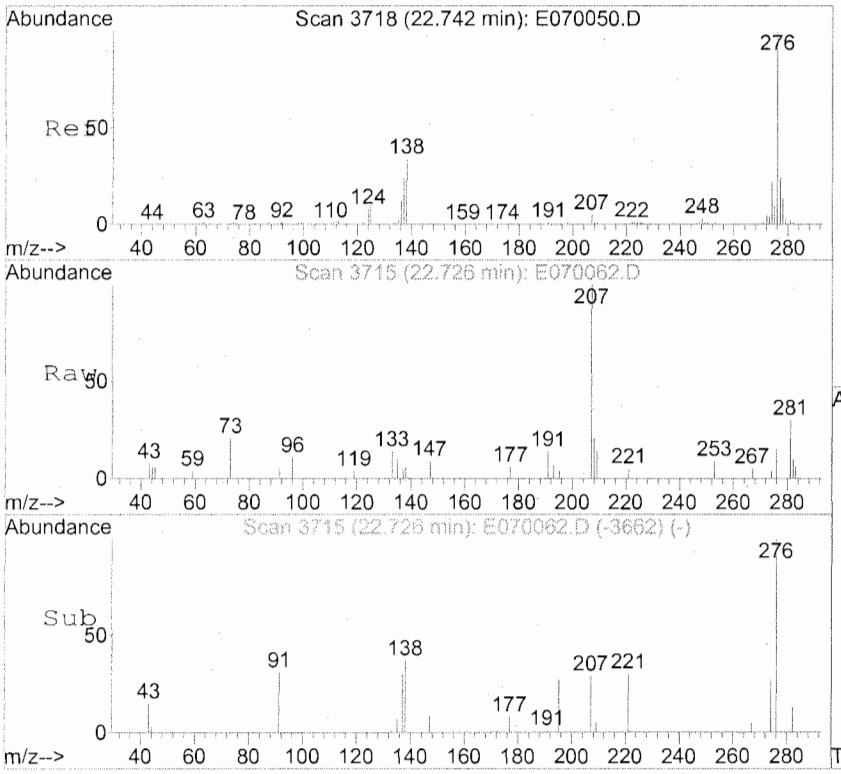


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.75 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.16 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:149 Resp: 4295

Ion	Ratio	Lower	Upper
149	100		
167	28.7	25.0	37.6
279	0.0	6.2	9.2#

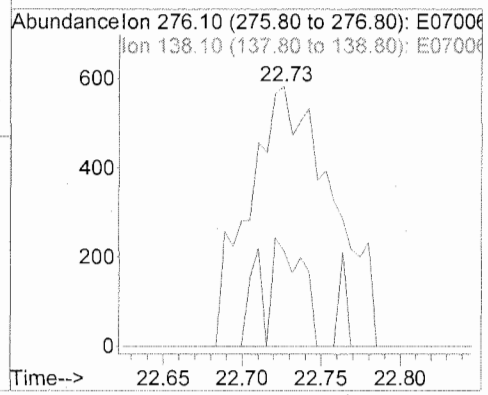


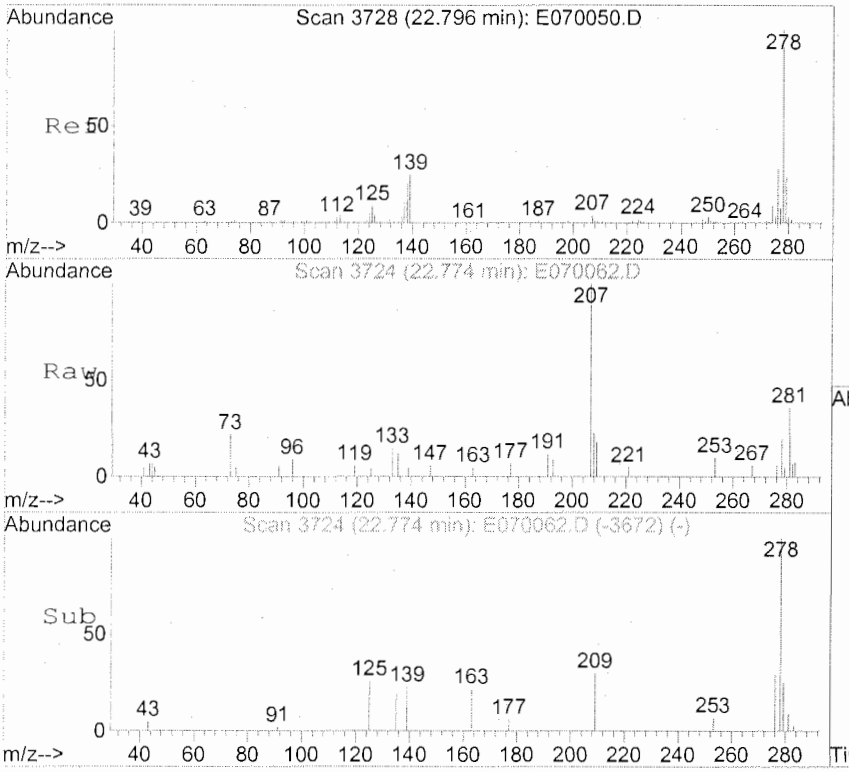


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.85 mg/L
RT: 22.73 min Scan# 3715
Delta R.T. -0.02 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:276 Resp: 2123

Ion	Ratio	Lower	Upper
276	100		
138	14.9	25.4	38.0#

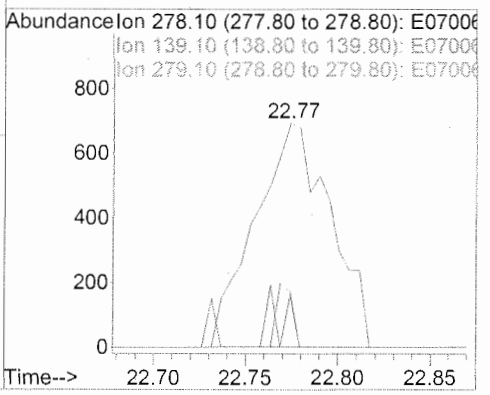


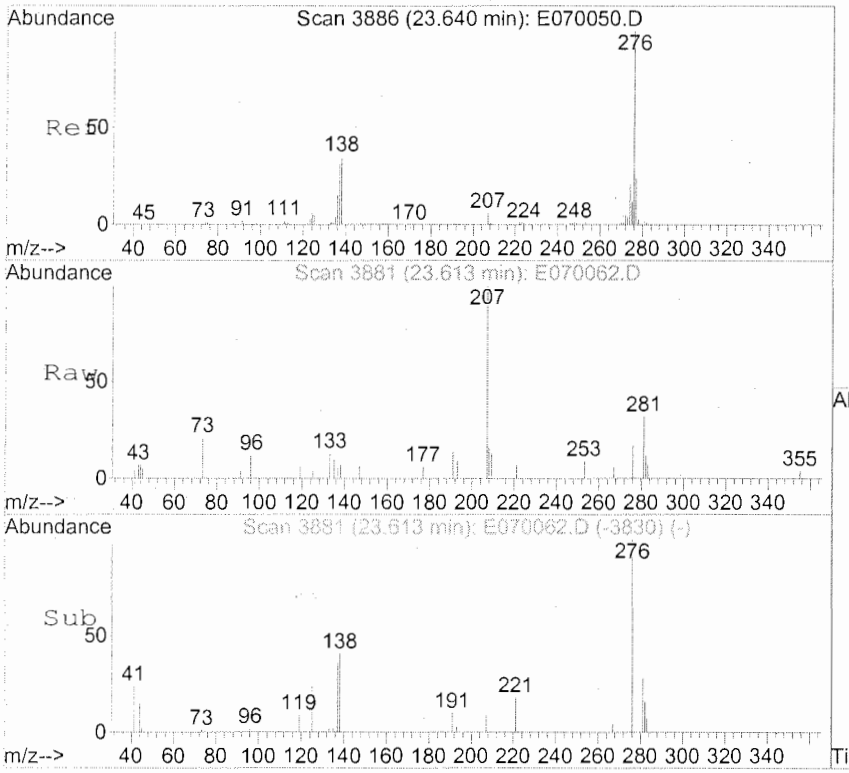


#86
Dibenz(a,h)anthracene
Concen: 0.91 mg/L
RT: 22.77 min Scan# 3724
Delta R.T. -0.02 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:278 Resp: 1964

Ion	Ratio	Lower	Upper
278	100		
139	5.8	18.0	27.0#
279	6.0	19.4	29.0#

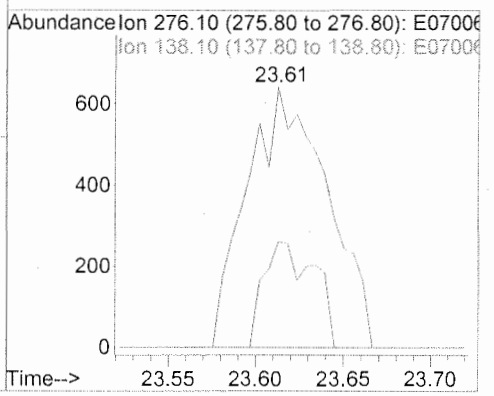




#87
Benzo(g,h,i)perylene
Concen: 0.99 mg/L
RT: 23.61 min Scan# 3881
Delta R.T. -0.03 min
Lab File: E070062.D
Acq: 18 Jan 2007 8:08 pm

Tgt Ion:276 Resp: 2036

Ion	Ratio	Lower	Upper
276	100		
138	25.7	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/11/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76117	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070063.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 20:40	**Quant Date:**	01/19/2007 09:07	**Vial:**	16
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-010			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	159130	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	635787	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	357793	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	550772	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	295844	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	177237	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	202298	39.93	80	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	278780	42.45	85	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	249102	46.37	93	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	519180	46.02	92	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	52971	40.10	80	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	397760	48.11	96	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0d		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070063.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 20:40	**Quant Date:**	01/19/2007 09:07	**Vial:**	16
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-010			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid				122	0		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0d		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.71	-0.01	0.00	149	2436	0.2200	0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070063.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 20:40	**Quant Date:**	01/19/2007 09:07	**Vial:**	16
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-010			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	6804	0.4000	0.38	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	11189	1.50	1.4	J	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070063.D Vial: 16
Acq On : 18 Jan 2007 8:40 pm Operator: GJ
Sample : D0700056-010 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:06:47 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	159130	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	635787	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	357793	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	550772	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	295844	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	177237	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	202298	39.93	mg/L	-0.06
Spiked Amount 50.000			Recovery =	79.86%		
7) Phenol-d5	5.81	99	278780	42.45	mg/L	-0.06
Spiked Amount 50.000			Recovery =	84.90%		
23) Nitrobenzene-d5	7.03	82	249102	46.37	mg/L	-0.08
Spiked Amount 50.000			Recovery =	92.74%		
41) 2-Fluorobiphenyl	9.30	172	519180	46.02	mg/L	-0.09
Spiked Amount 50.000			Recovery =	92.04%		
61) 2,4,6-Tribromophenol	11.17	330	52971	40.10	mg/L	-0.10
Spiked Amount 50.000			Recovery =	80.20%		
73) Terphenyl-d14	14.55	244	397760	48.11	mg/L	-0.13
Spiked Amount 50.000			Recovery =	96.22%		
Target Compounds						Qvalue
54) Diethylphthalate	10.71	149	2436	0.22	mg/L #	92
68) Di-n-butylphthalate	12.86	149	6804	0.40	mg/L #	96
78) Bis(2-ethylhexyl)phthalate	16.72	149	11189	1.50	mg/L #	98

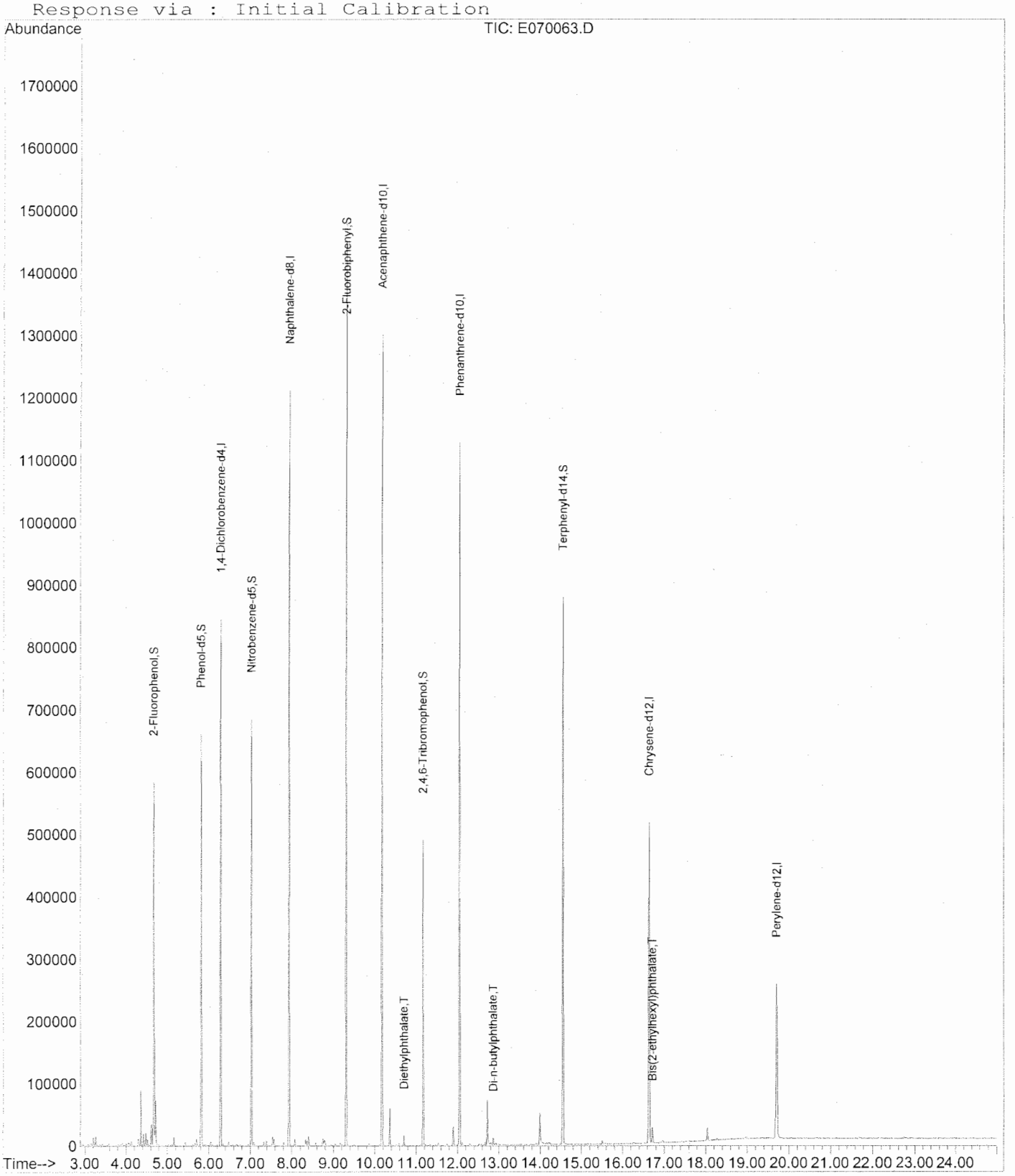
cn 1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070063.D Vial: 16
Acq On : 18 Jan 2007 8:40 pm Operator: GJ
Sample : D0700056-010 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:07 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070063.D Vial: 16
Acq On : 18 Jan 2007 8:40 pm Operator: GJ
Sample : D0700056-010 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:06:47 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

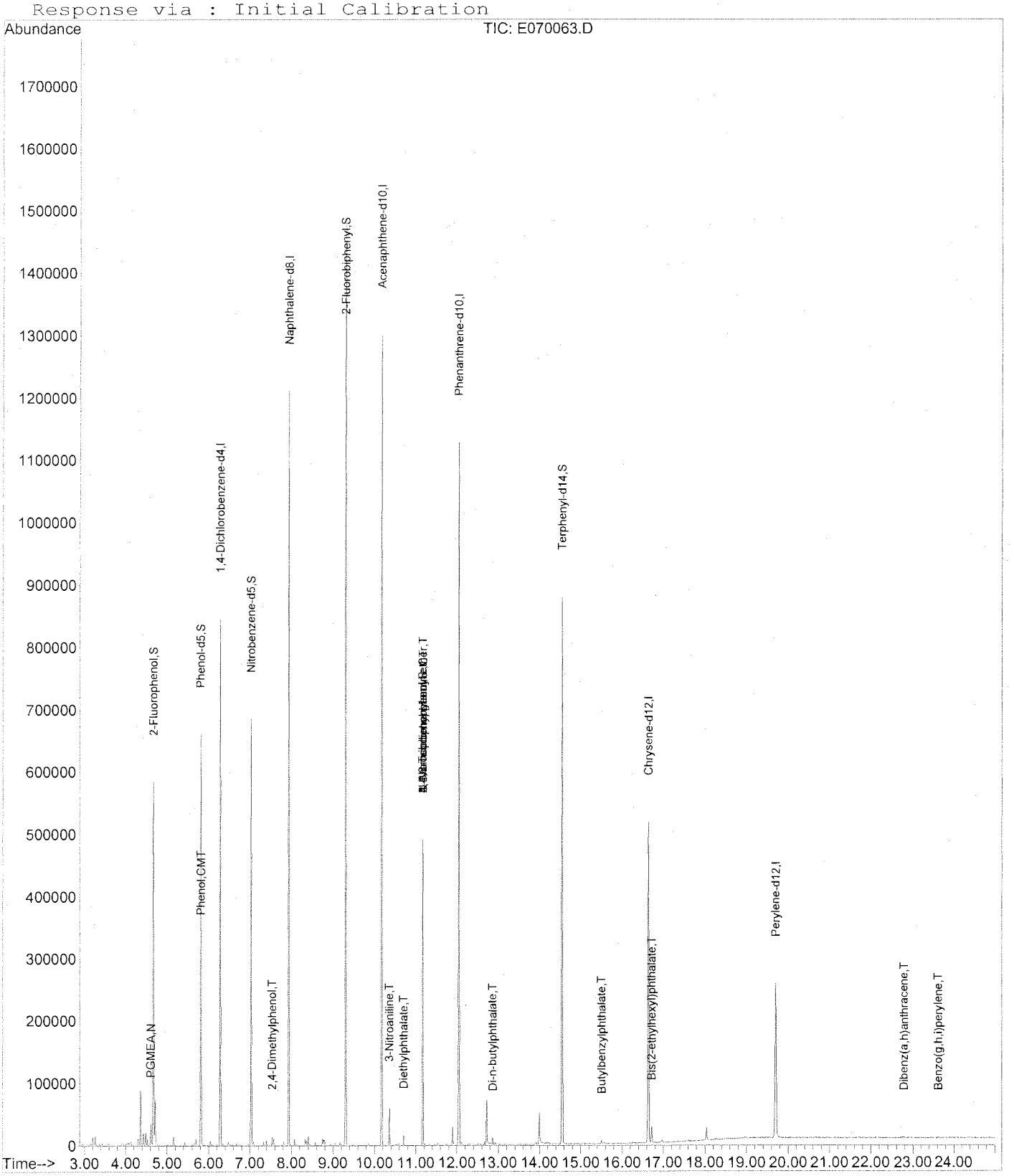
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	159130	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	635787	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	357793	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	550772	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	295844	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	177237	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	202298	39.93	mg/L	-0.06
Spiked Amount 50.000			Recovery =	79.86%		
7) Phenol-d5	5.81	99	278780	42.45	mg/L	-0.06
Spiked Amount 50.000			Recovery =	84.90%		
23) Nitrobenzene-d5	7.03	82	249102	46.37	mg/L	-0.08
Spiked Amount 50.000			Recovery =	92.74%		
41) 2-Fluorobiphenyl	9.30	172	519180	46.02	mg/L	-0.09
Spiked Amount 50.000			Recovery =	92.04%		
61) 2,4,6-Tribromophenol	11.17	330	52971	40.10	mg/L	-0.10
Spiked Amount 50.000			Recovery =	80.20%		
73) Terphenyl-d14	14.55	244	397760	48.11	mg/L	-0.13
Spiked Amount 50.000			Recovery =	96.22%		
Target Compounds						Qvalue
5) PGMEA	4.62	43	3385	0.31	mg/L #	7
8) Phenol	5.83	94	2222	0.32	mg/L #	1
27) 2,4-Dimethylphenol	7.54	122	2783	0.54	mg/L #	1
47) 3-Nitroaniline	10.36	138	257	1.89	mg/L #	1
54) Diethylphthalate	10.71	149	2436	0.22	mg/L #	92
59) N-Nitrosodiphenylamine	11.17	169	2528	0.32	mg/L #	37
62) 4-Bromophenyl phenyl ether	11.17	248	3335	1.15	mg/L #	1
68) Di-n-butylphthalate	12.86	149	6804	0.40	mg/L #	96
74) Butylbenzylphthalate	15.50	149	1473	0.26	mg/L #	79
78) Bis(2-ethylhexyl)phthalate	16.72	149	11189	1.50	mg/L #	98
86) Dibenz(a,h)anthracene	22.77	278	1658	0.47	mg/L #	64
87) Benzo(g,h,i)perylene	23.63	276	1752	0.52	mg/L	94

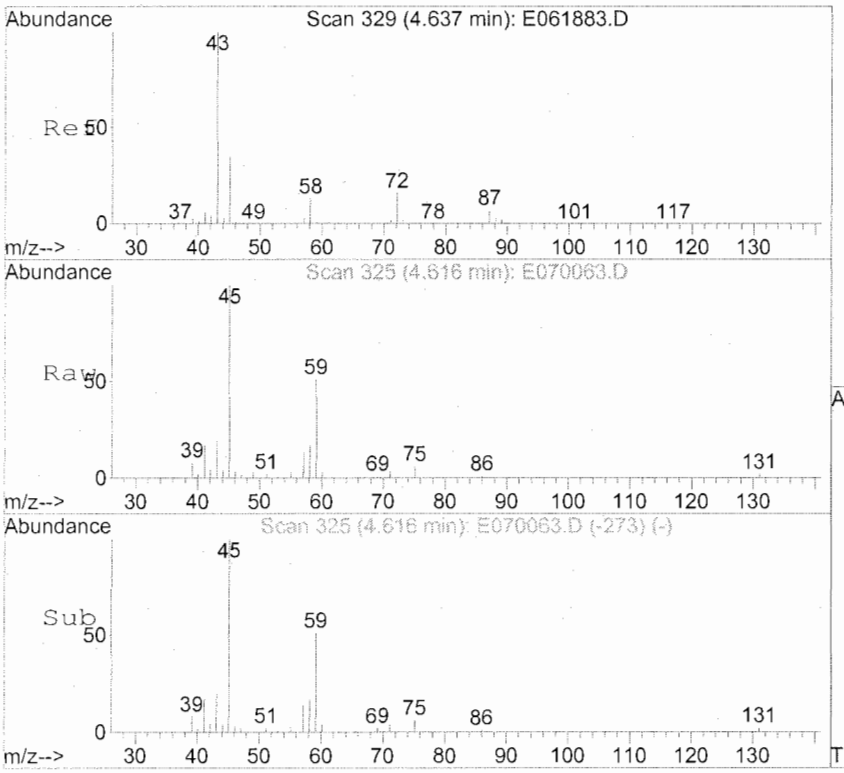
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070063.D Vial: 16
Acq On : 18 Jan 2007 8:40 pm Operator: GJ
Sample : D0700056-010 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:06 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

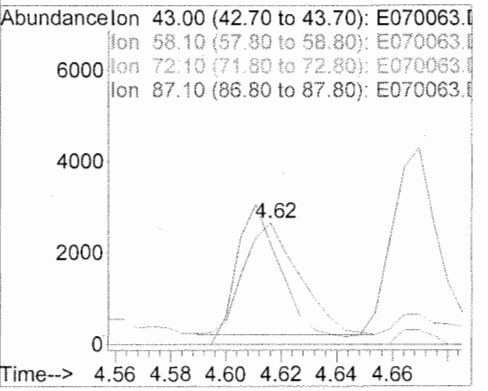


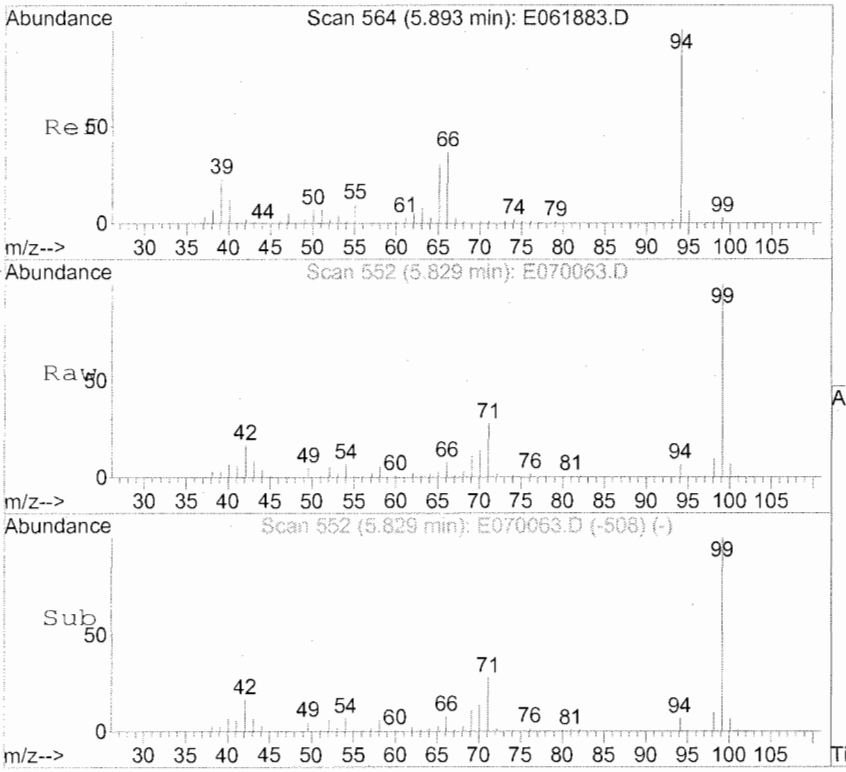


#5
PGMEA
Concen: 0.31 mg/L
RT: 4.62 min Scan# 325
Delta R.T. -0.02 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion: 43 Resp: 3385

Ion	Ratio	Lower	Upper
43	100		
58	104.1	9.7	14.5#
72	0.0	20.4	30.6#
87	0.0	7.6	11.4#

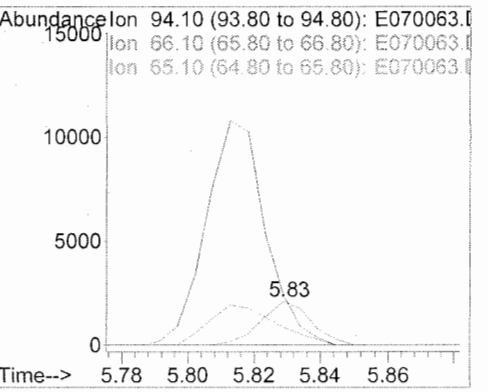


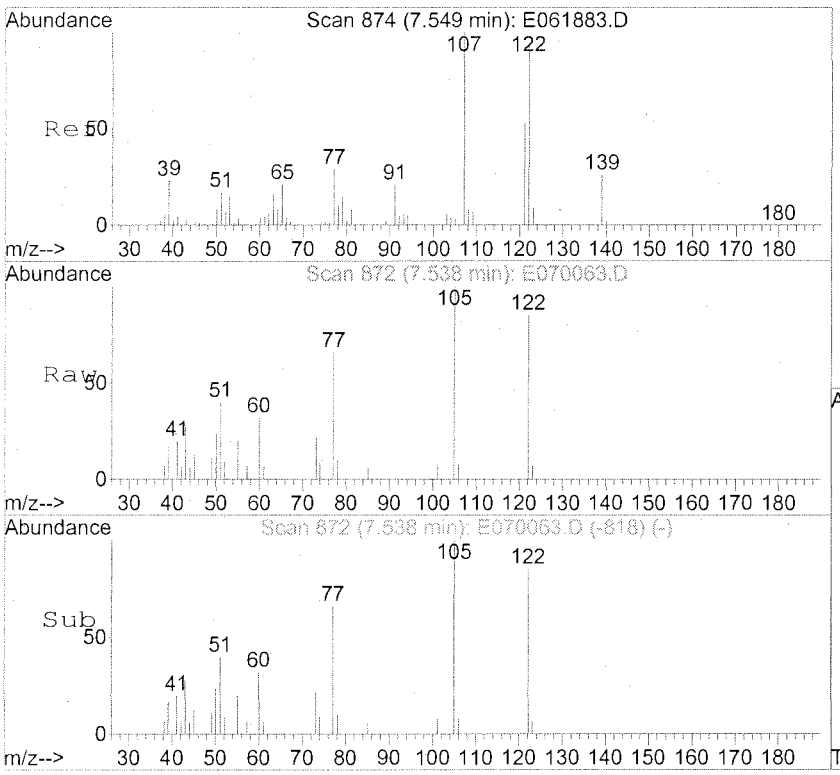


#8
Phenol
Concen: 0.32 mg/L
RT: 5.83 min Scan# 552
Delta R.T. -0.06 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion: 94 Resp: 2222

Ion	Ratio	Lower	Upper
94	100		
66	608.6	38.3	57.5#
65	123.4	27.1	40.7#

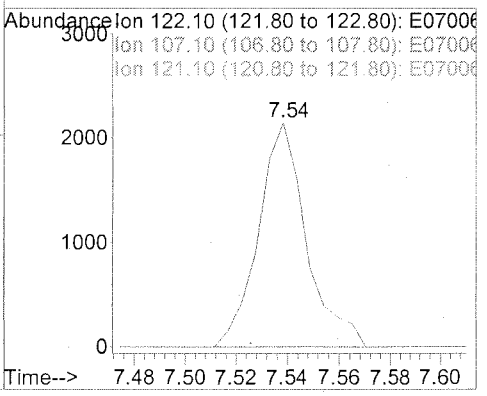


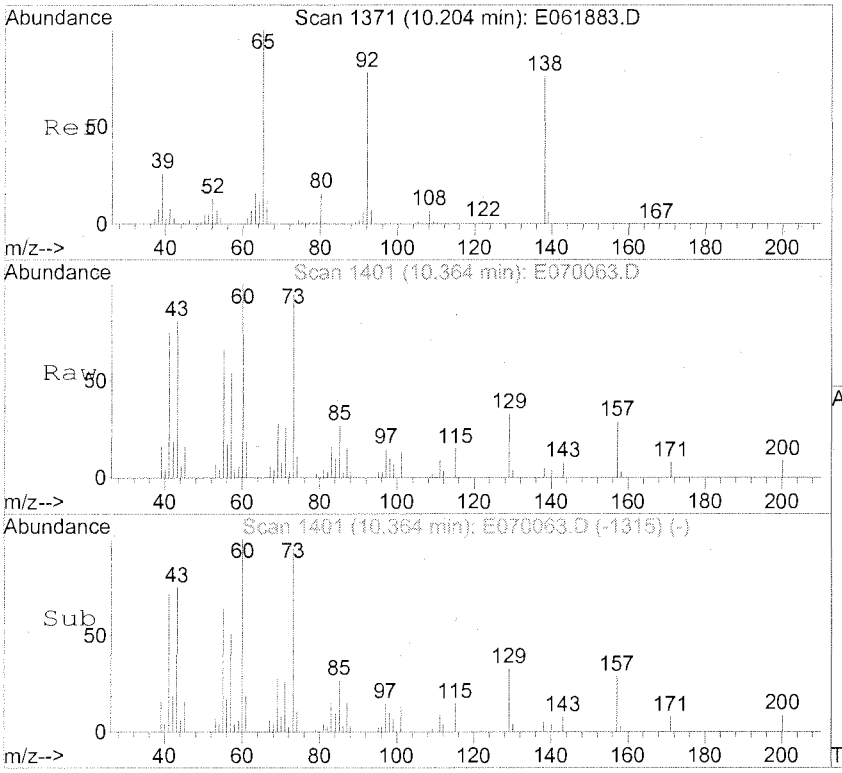


#27
2,4-Dimethylphenol
Concen: 0.54 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:122 Resp: 2783

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

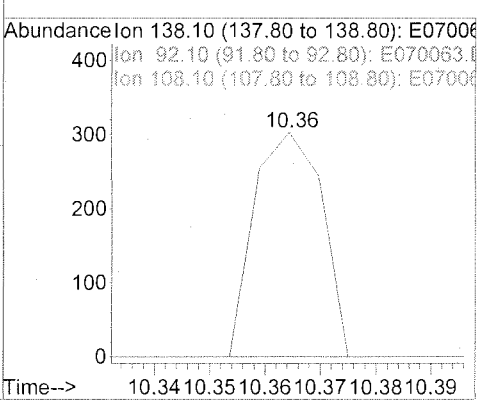


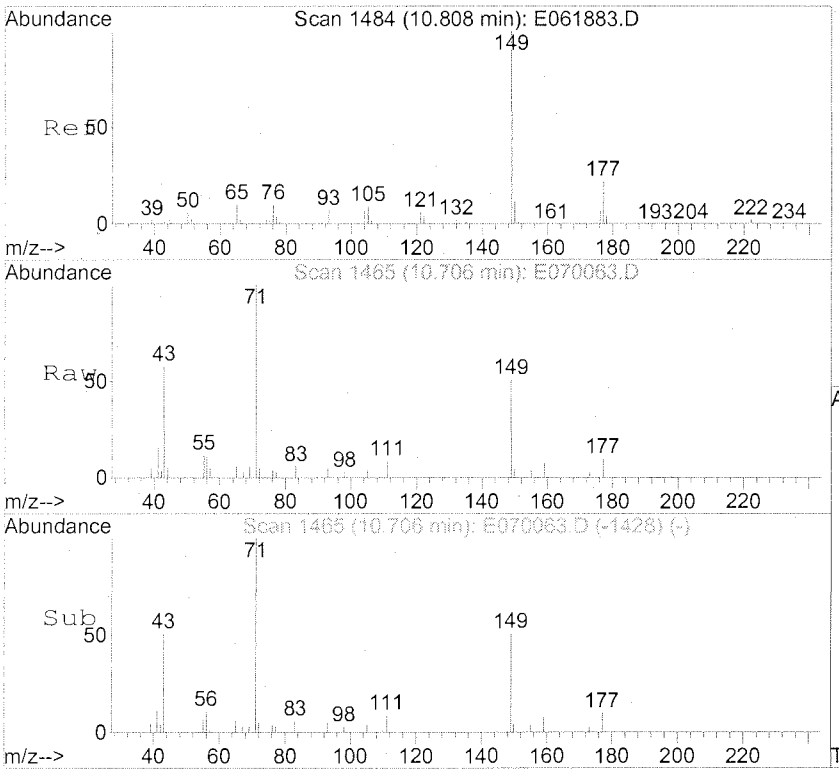


#47
3-Nitroaniline
Concen: 1.89 mg/L
RT: 10.36 min Scan# 1401
Delta R.T. 0.16 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:138 Resp: 257

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

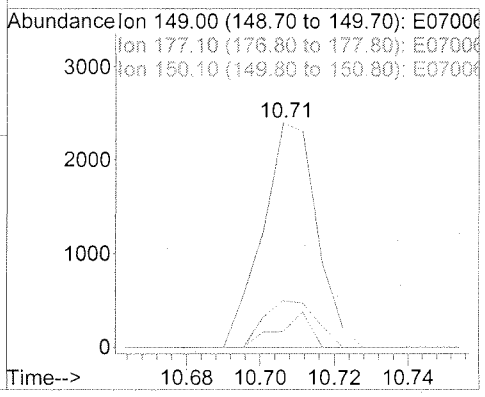


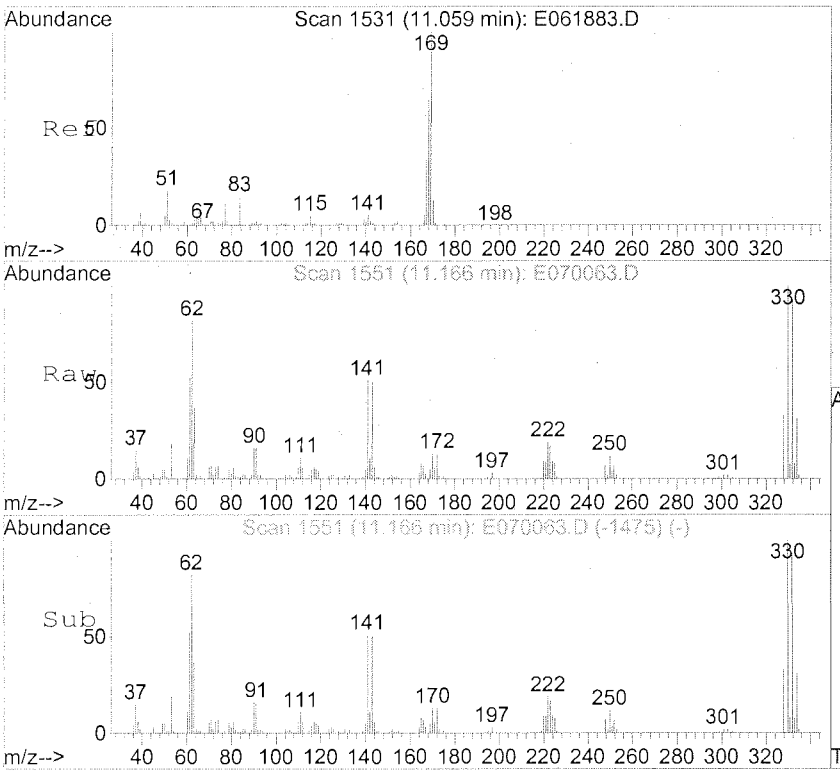


#54
Diethylphthalate
Concen: 0.22 mg/L
RT: 10.71 min Scan# 1465
Delta R.T. -0.10 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:149 Resp: 2436

Ion	Ratio	Lower	Upper
149	100		
177	19.9	19.0	28.6
150	9.3	10.0	15.0#

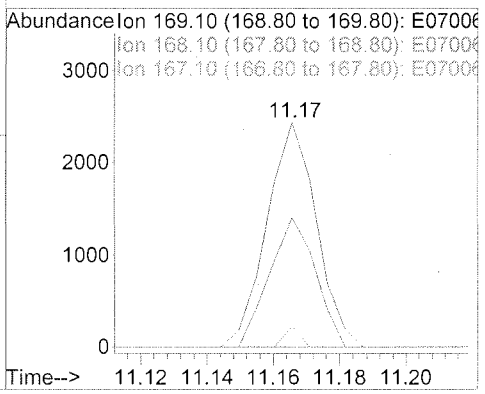


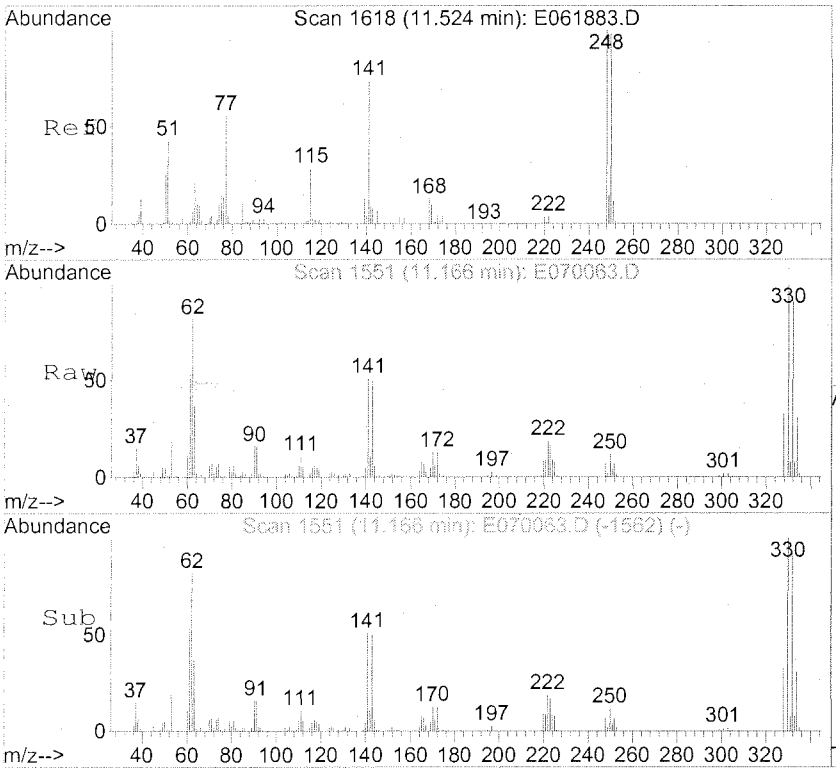


#59
N-Nitrosodiphenylamine
Concen: 0.32 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:169 Resp: 2528

Ion	Ratio	Lower	Upper
169	100		
168	2.8	50.8	76.2#
167	53.5	27.0	40.4#

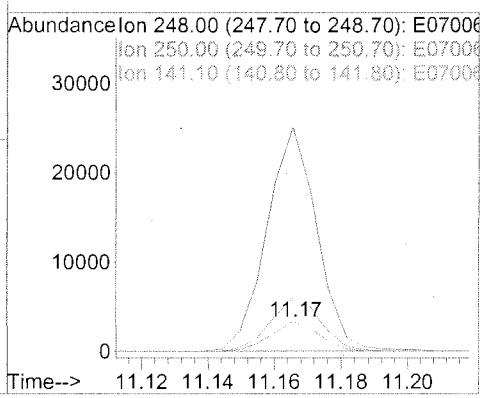


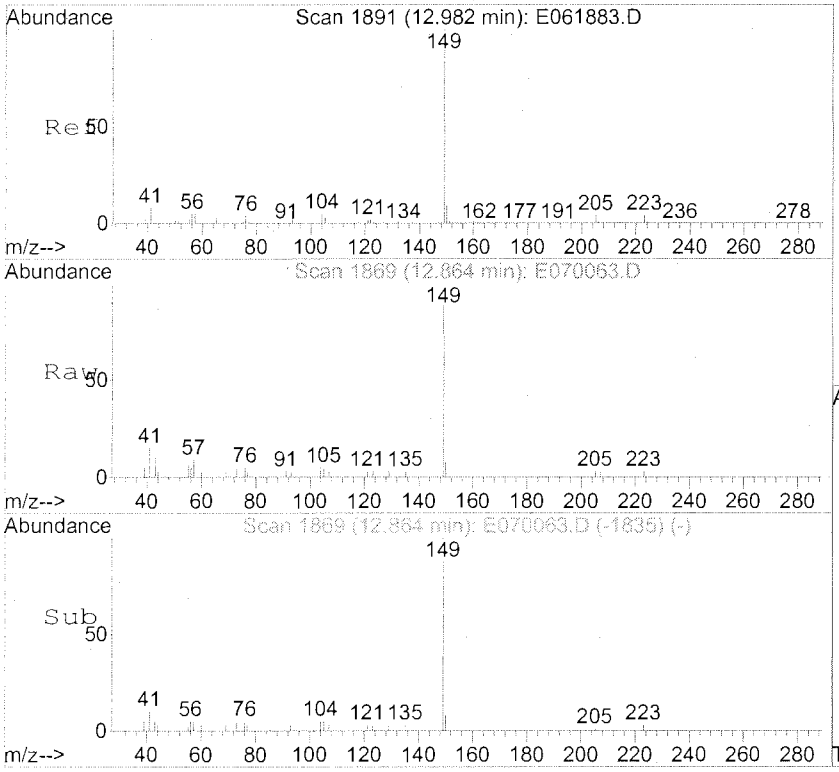


#62
4-Bromophenyl phenyl ether
Concen: 1.15 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:248 Resp: 3335

Ion	Ratio	Lower	Upper
248	100		
250	189.4	79.0	118.4#
141	790.6	64.3	96.5#

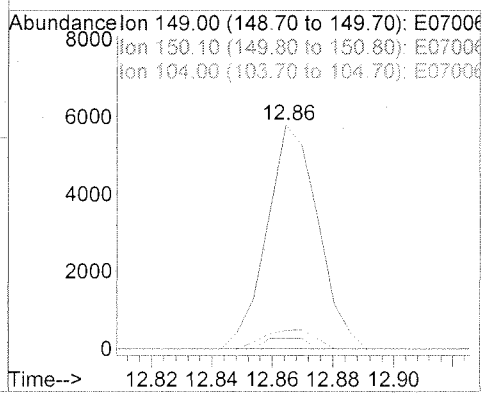


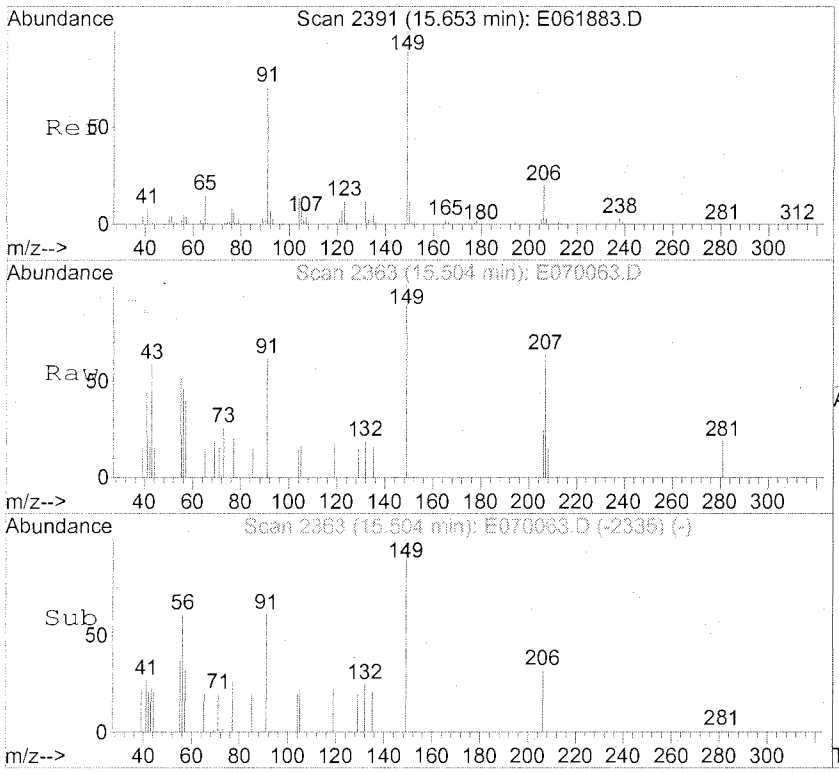


#68
Di-n-butylphthalate
Concen: 0.40 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:149 Resp: 6804

Ion	Ratio	Lower	Upper
149	100		
150	8.3	7.3	10.9
104	3.7	4.6	7.0#

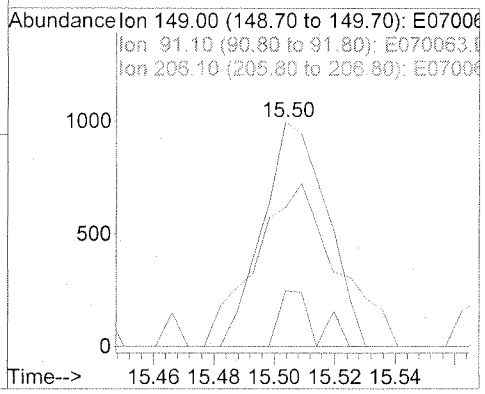


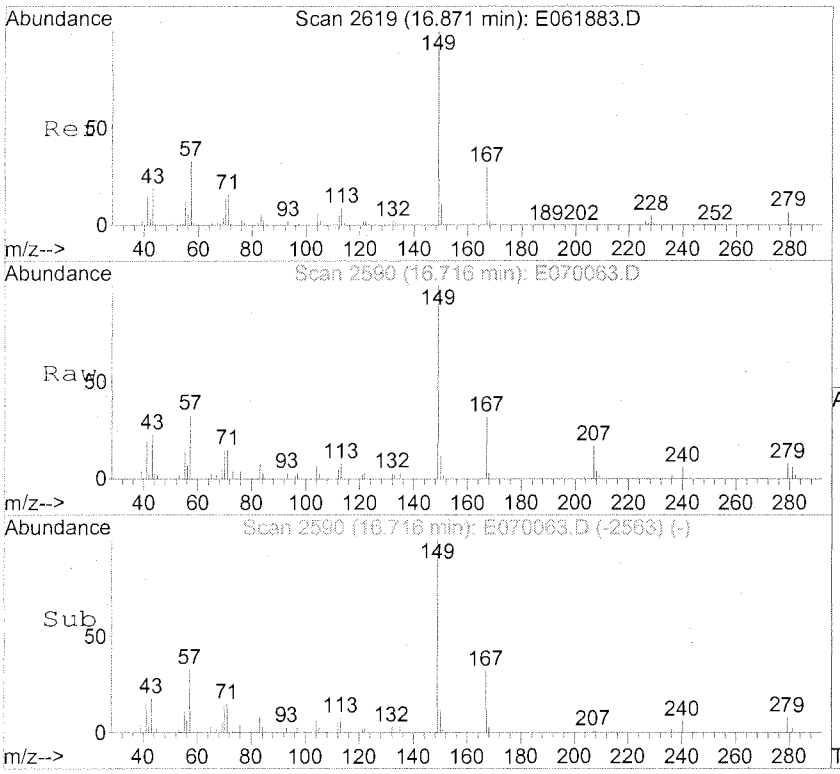


#74
Butylbenzylphthalate
Concen: 0.26 mg/L
RT: 15.50 min Scan# 2363
Delta R.T. -0.15 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:149 Resp: 1473

Ion	Ratio	Lower	Upper
149	100		
91	92.1	59.4	89.0#
206	14.0	19.0	28.6#

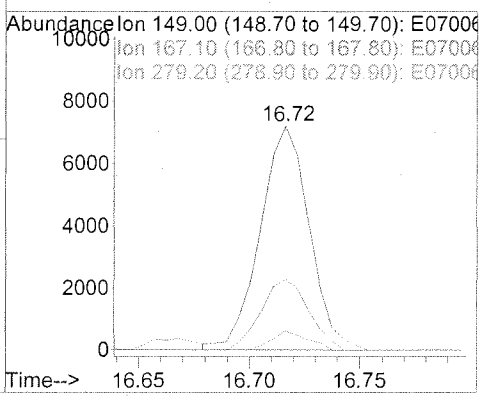


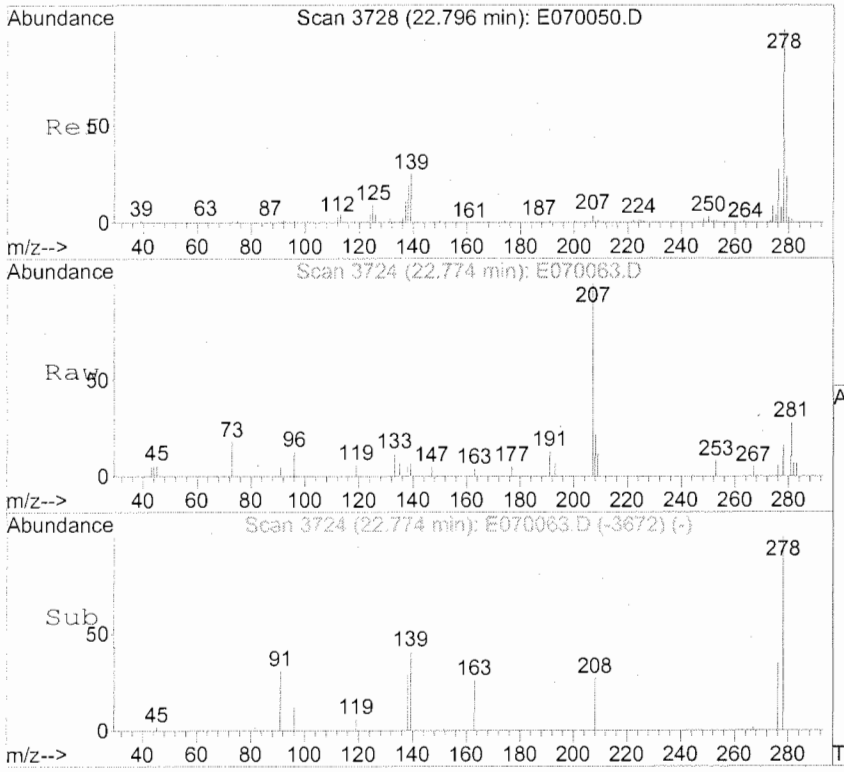


#78
Bis(2-ethylhexyl)phthalate
Concen: 1.50 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:149 Resp: 11189

Ion	Ratio	Lower	Upper
149	100		
167	30.7	25.0	37.6
279	6.2	6.2	9.2#

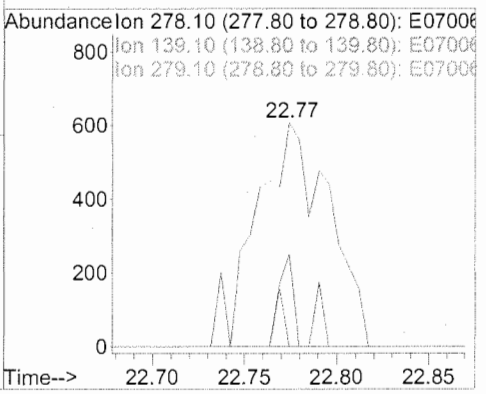


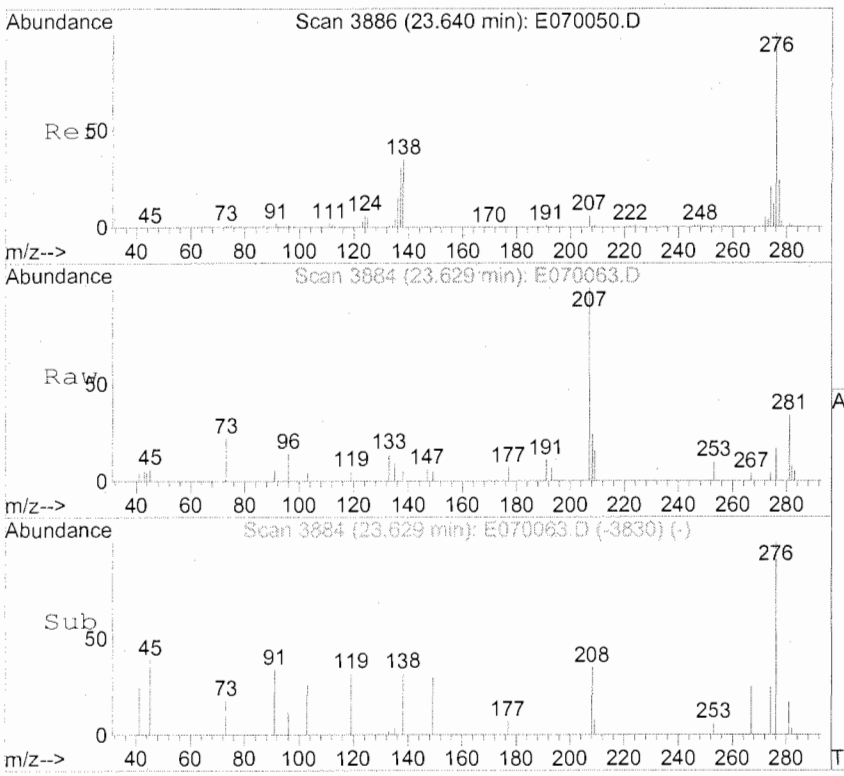


#86
Dibenz(a,h)anthracene
Concen: 0.47 mg/L
RT: 22.77 min Scan# 3724
Delta R.T. -0.02 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:278 Resp: 1658

Ion	Ratio	Lower	Upper
278	100		
139	8.2	18.0	27.0#
279	3.1	19.4	29.0#

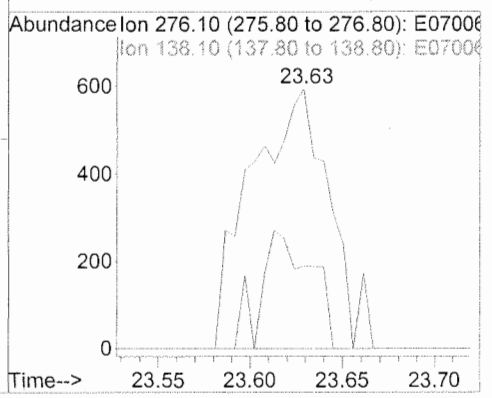




#87
Benzo(g,h,i)perylene
Concen: 0.52 mg/L
RT: 23.63 min Scan# 3884
Delta R.T. -0.01 min
Lab File: E070063.D
Acq: 18 Jan 2007 8:40 pm

Tgt Ion:276 Resp: 1752

Ion	Ratio	Lower	Upper
276	100		
138	29.5	26.2	39.2



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/11/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76118	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070064.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 21:13	**Quant Date:**	01/19/2007 09:11	**Vial:**	17
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-011			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	179029	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	723608	40.00	OK
3	Acenaphthene-d10	10.17	-0.01?	164	410514	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	638673	40.00	OK
5	Chrysene-d12	16.63	-0.02?	240	352691	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	214166	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	248785	43.65	87	23-115	OK	
1	Phenol-d5	5.82	0.00	0.00	99	339875	46.01	92	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	300787	49.20	98	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	620895	47.97	96	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	68057	44.43	89	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	475704	48.26	97	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0d		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070064.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 21:13	**Quant Date:**	01/19/2007 09:11	**Vial:**	17
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-011			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	3235	0.8400	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0d		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Aceeptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070064.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 21:13	**Quant Date:**	01/19/2007 09:11	**Vial:**	17
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-011			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	9942	0.5100	0.49	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.71	-0.01	0.00	149	16650	1.87	1.8	J	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070064.D Vial: 17
Acq On : 18 Jan 2007 9:13 pm Operator: GJ
Sample : D0700056-011 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:10:08 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	179029	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	723608	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	410514	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	638673	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	352691	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	214166	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	248785	43.65	mg/L	-0.05
Spiked Amount 50.000			Recovery =	87.30%		
7) Phenol-d5	5.82	99	339875	46.01	mg/L	-0.05
Spiked Amount 50.000			Recovery =	92.02%		
23) Nitrobenzene-d5	7.03	82	300787	49.20	mg/L	-0.08
Spiked Amount 50.000			Recovery =	98.40%		
41) 2-Fluorobiphenyl	9.30	172	620895	47.97	mg/L	-0.09
Spiked Amount 50.000			Recovery =	95.94%		
61) 2,4,6-Tribromophenol	11.17	330	68057	44.43	mg/L	-0.10
Spiked Amount 50.000			Recovery =	88.86%		
73) Terphenyl-d14	14.55	244	475704	48.26	mg/L	-0.13
Spiked Amount 50.000			Recovery =	96.52%		
Target Compounds						Qvalue
28) Benzoic acid	7.54	122	3235	0.84	mg/L	89
67) Carbazole	12.30	167	242	Below Cal	#	59
68) Di-n-butylphthalate	12.86	149	9942	0.51	mg/L	99
78) Bis(2-ethylhexyl)phthalate	16.71	149	16650	1.87	mg/L #	97

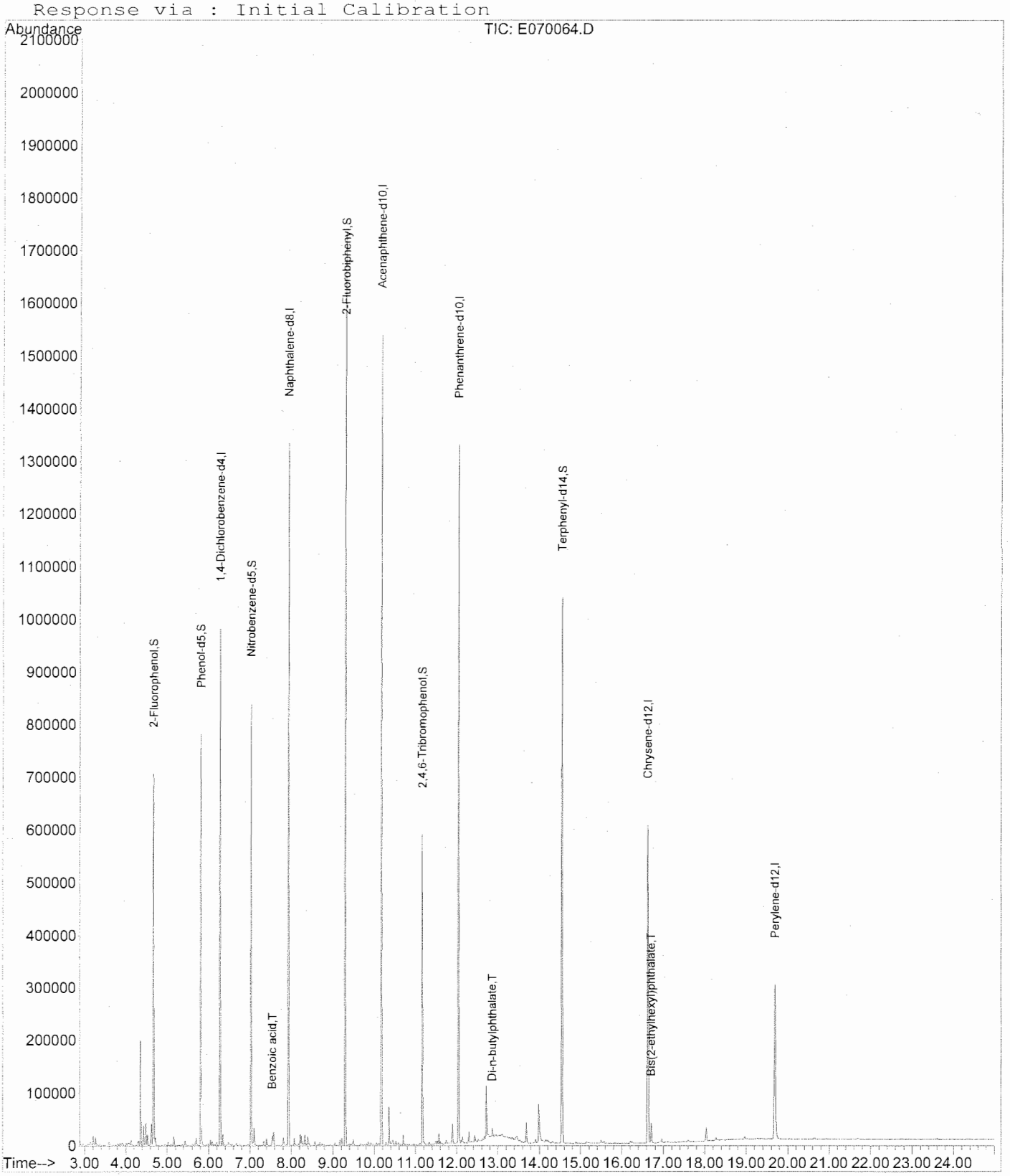
G 1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E070064.D BA061226.M Fri Jan 19 09:11:24 2007 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070064.D Vial: 17
Acq On : 18 Jan 2007 9:13 pm Operator: GJ
Sample : D0700056-011 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:11 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070064.D Vial: 17
Acq On : 18 Jan 2007 9:13 pm Operator: GJ
Sample : D0700056-011 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:10:08 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

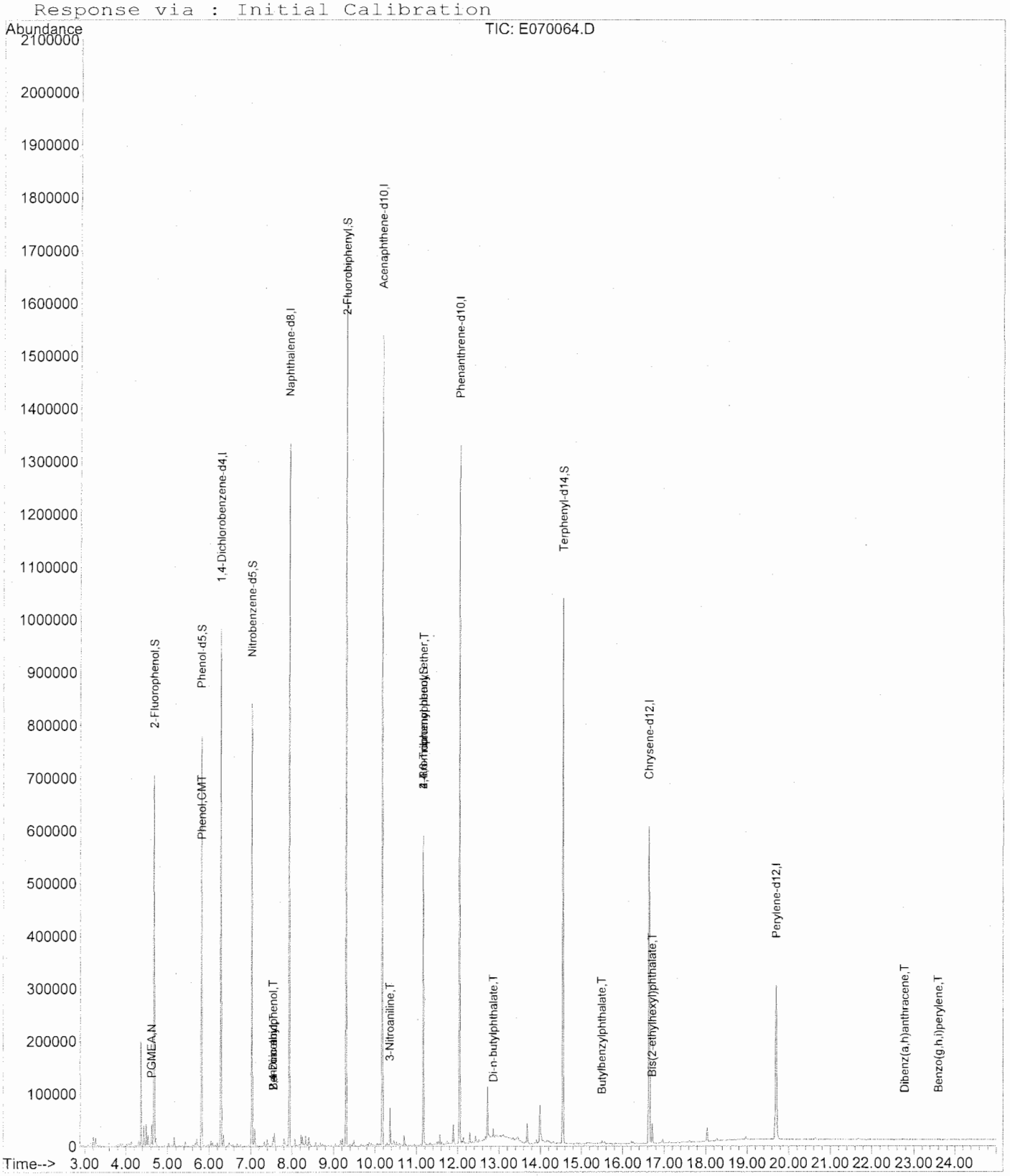
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	179029	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	723608	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	410514	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	638673	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	352691	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	214166	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	248785	43.65	mg/L	-0.05
Spiked Amount 50.000			Recovery =	87.30%		
7) Phenol-d5	5.82	99	339875	46.01	mg/L	-0.05
Spiked Amount 50.000			Recovery =	92.02%		
23) Nitrobenzene-d5	7.03	82	300787	49.20	mg/L	-0.08
Spiked Amount 50.000			Recovery =	98.40%		
41) 2-Fluorobiphenyl	9.30	172	620895	47.97	mg/L	-0.09
Spiked Amount 50.000			Recovery =	95.94%		
61) 2,4,6-Tribromophenol	11.17	330	68057	44.43	mg/L	-0.10
Spiked Amount 50.000			Recovery =	88.86%		
73) Terphenyl-d14	14.55	244	475704	48.26	mg/L	-0.13
Spiked Amount 50.000			Recovery =	96.52%		
Target Compounds						Qvalue
5) PGMEA	4.63	43	3888	0.32	mg/L #	47
8) Phenol	5.83	94	5233	0.67	mg/L #	1
27) 2,4-Dimethylphenol	7.54	122	3235	0.55	mg/L #	1
28) Benzoic acid	7.54	122	3235	0.84	mg/L	89
47) 3-Nitroaniline	10.36	138	307	1.90	mg/L #	1
62) 4-Bromophenyl phenyl ether	11.17	248	4138	1.23	mg/L #	1
67) Carbazole	12.30	167	242	Below Cal	#	59
68) Di-n-butylphthalate	12.86	149	9942	0.51	mg/L	99
74) Butylbenzylphthalate	15.50	149	1837	0.27	mg/L #	95
78) Bis(2-ethylhexyl)phthalate	16.71	149	16650	1.87	mg/L #	97
86) Dibenz(a,h)anthracene	22.77	278	1623	0.38	mg/L #	70
87) Benzo(g,h,i)perylene	23.60	276	1712	0.42	mg/L #	76

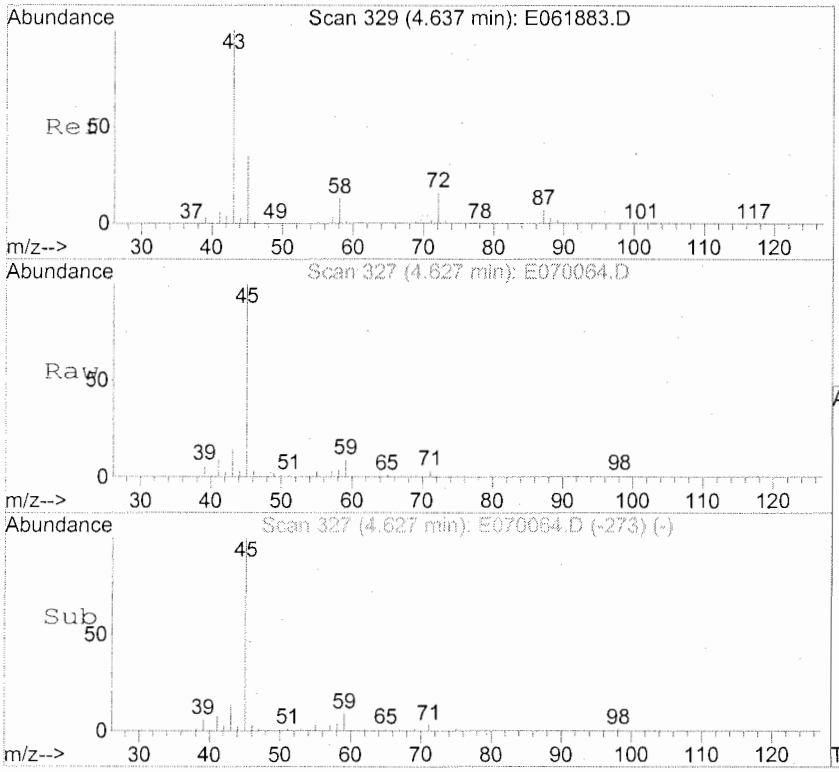
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070064.D Vial: 17
Acq On : 18 Jan 2007 9:13 pm Operator: GJ
Sample : D0700056-011 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:10 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

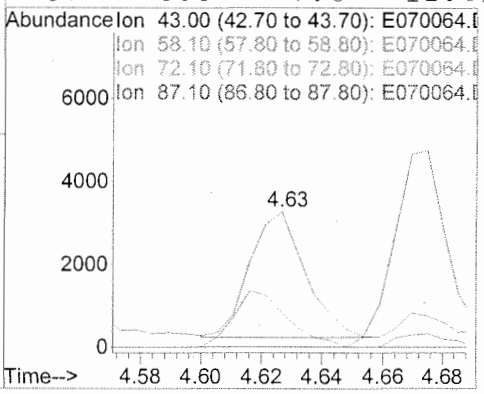


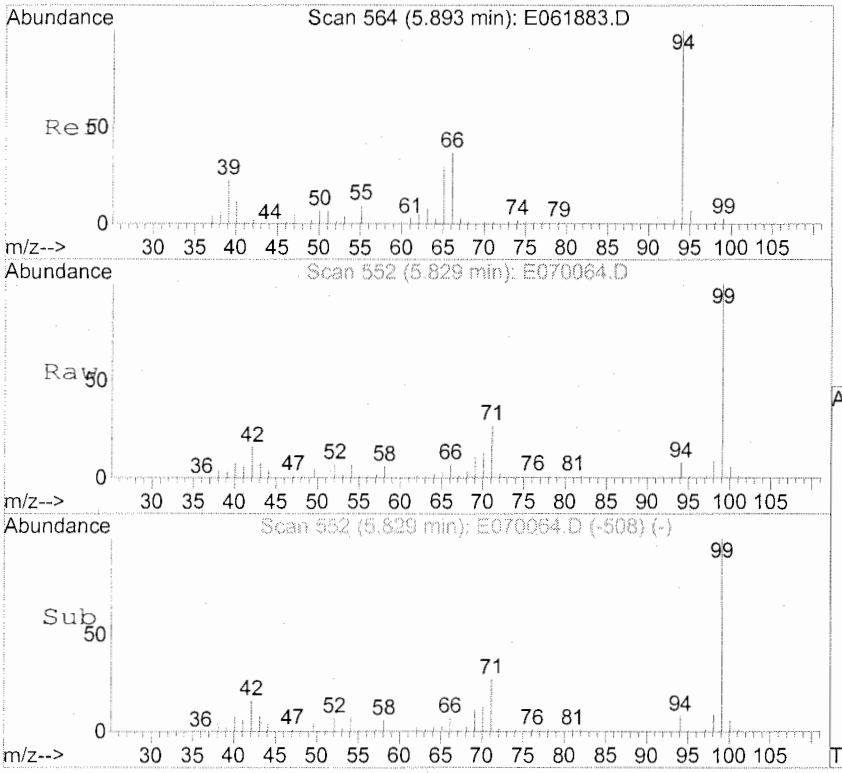


#5
PGMEA
Concen: 0.32 mg/L
RT: 4.63 min Scan# 327
Delta R.T. -0.01 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion: 43 Resp: 3888

Ion	Ratio	Lower	Upper
43	100		
58	43.5	9.7	14.5#
72	0.0	20.4	30.6#
87	0.0	7.6	11.4#

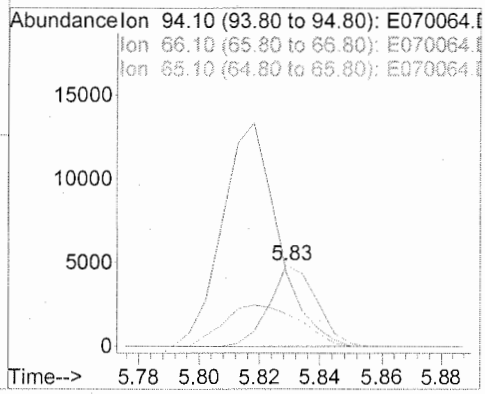


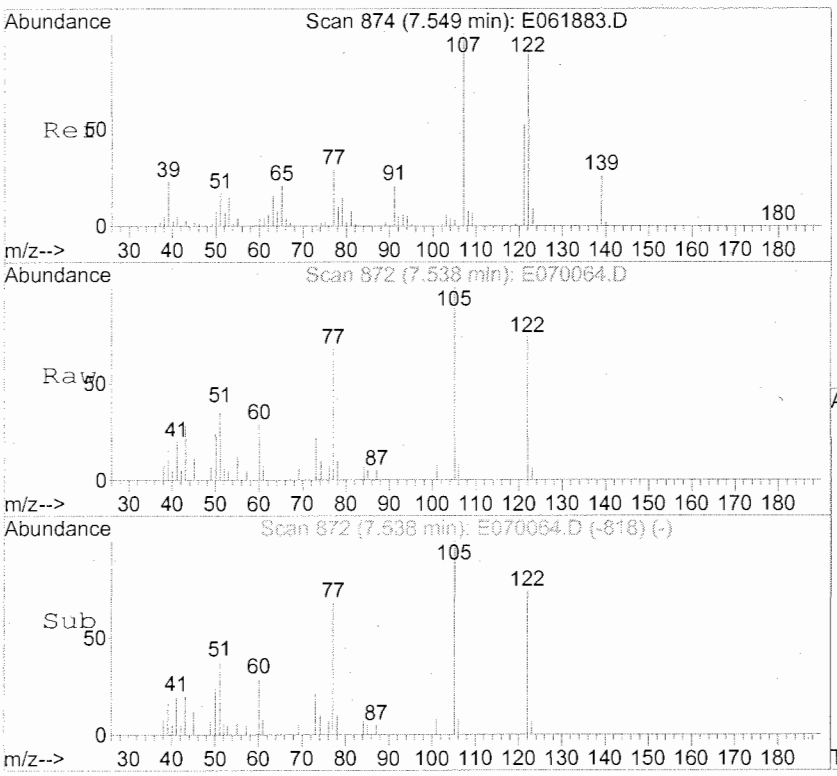


#8
Phenol
Concen: 0.67 mg/L
RT: 5.83 min Scan# 552
Delta R.T. -0.06 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion: 94 Resp: 5233

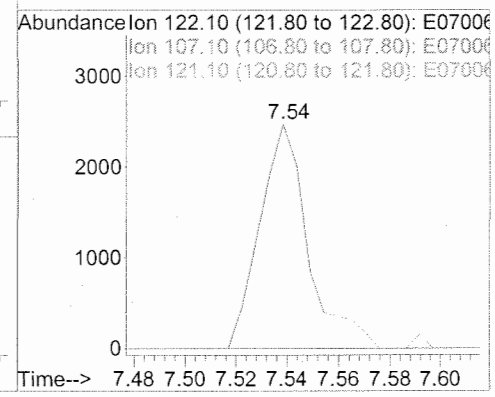
Ion	Ratio	Lower	Upper
94	100		
66	328.0	38.3	57.5#
65	81.5	27.1	40.7#

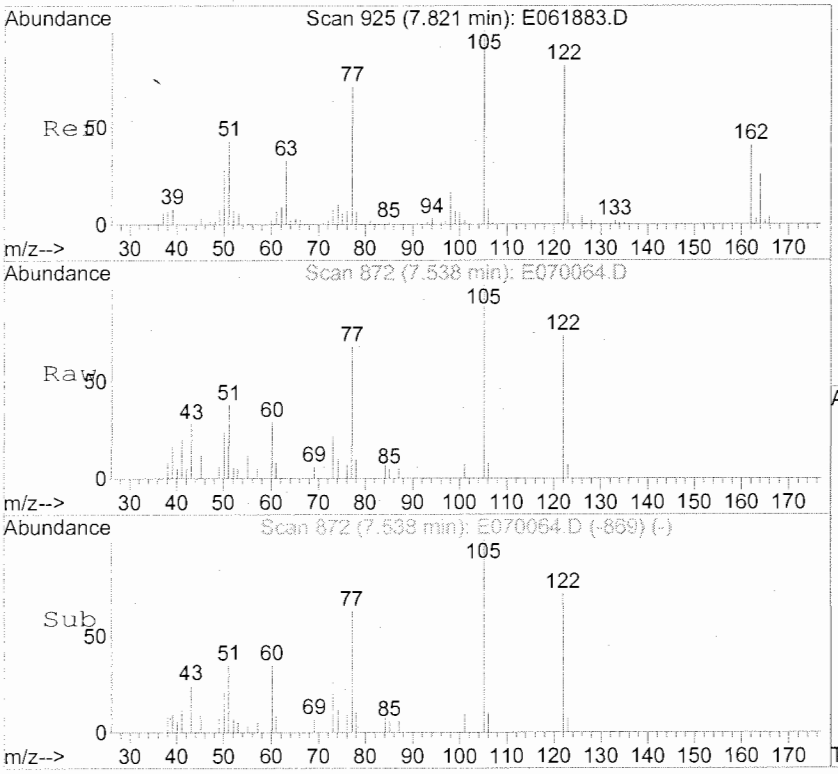




#27
2,4-Dimethylphenol
Concen: 0.55 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

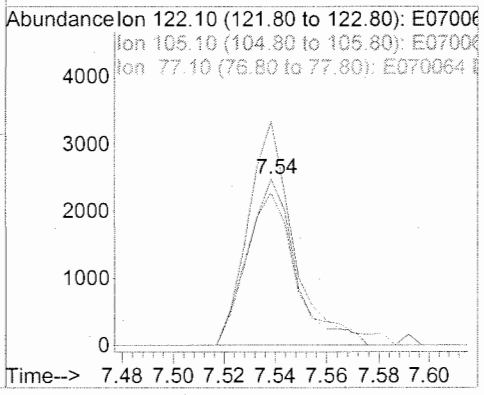
Tgt Ion:122	Resp:	3235	
Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

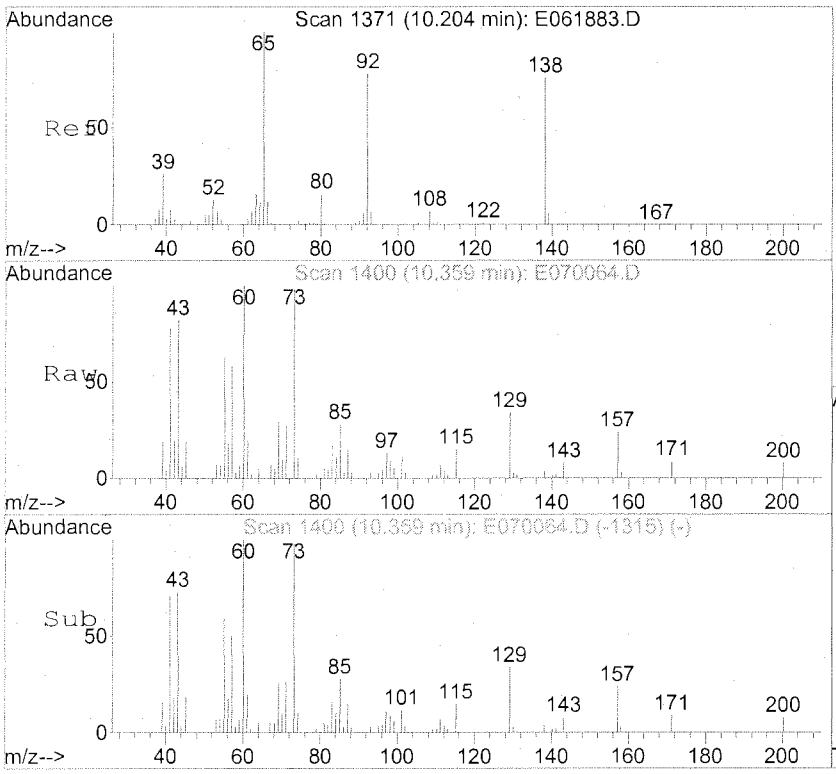




#28
Benzoic acid
Concen: 0.84 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.28 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion:122	Resp:	3235	
Ion	Ratio	Lower	Upper
122	100		
105	130.1	110.2	165.2
77	95.5	89.8	134.8

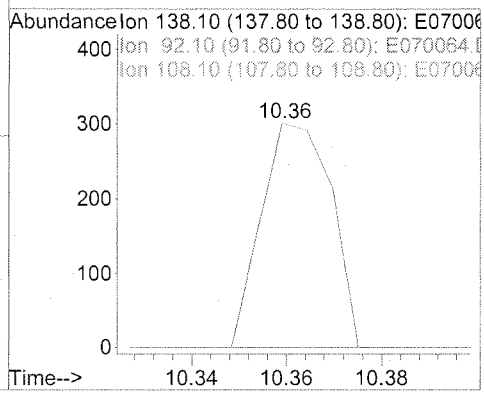


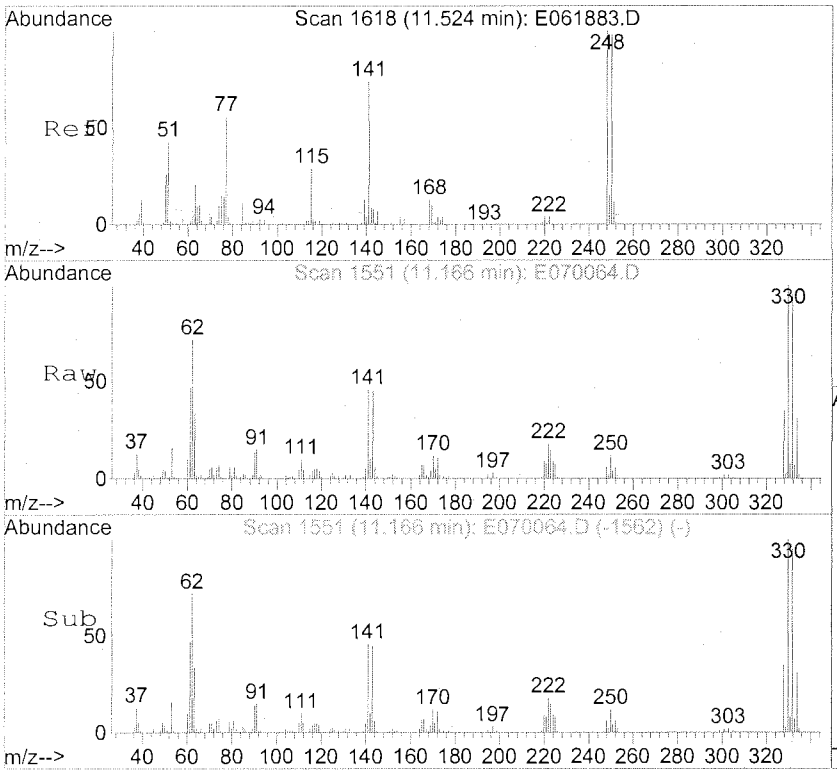


#47
3-Nitroaniline
Concen: 1.90 mg/L
RT: 10.36 min Scan# 1400
Delta R.T. 0.16 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion:138 Resp: 307

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

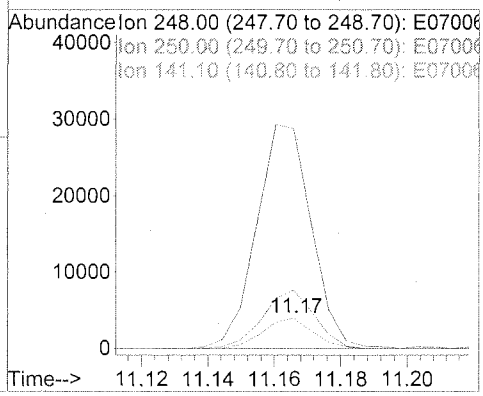


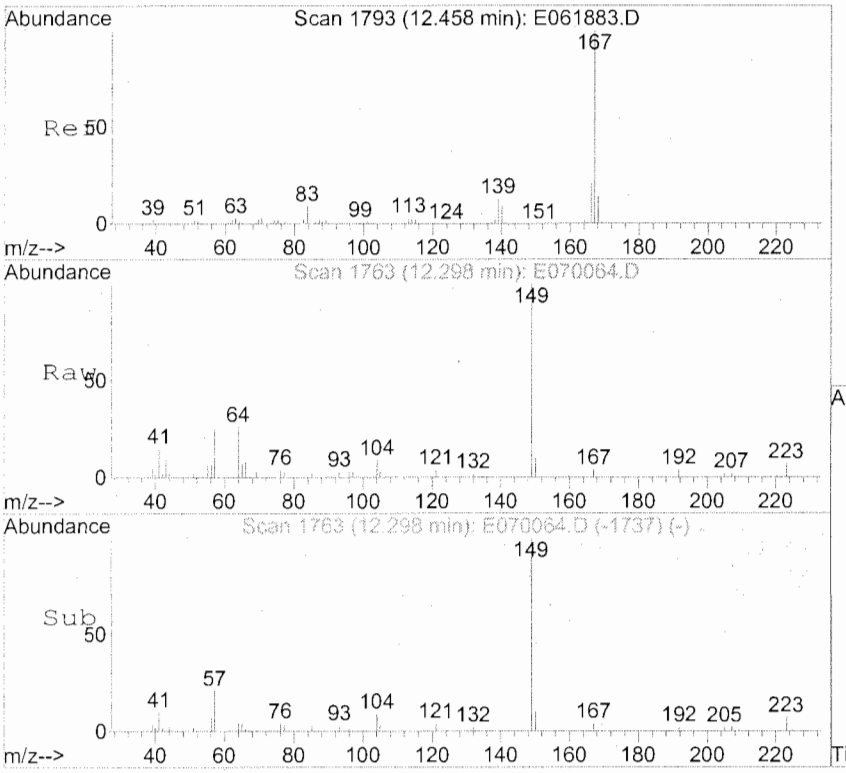


#62
4-Bromophenyl phenyl ether
Concen: 1.23 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion:248 Resp: 4138

Ion	Ratio	Lower	Upper
248	100		
250	198.8	79.0	118.4#
141	813.1	64.3	96.5#

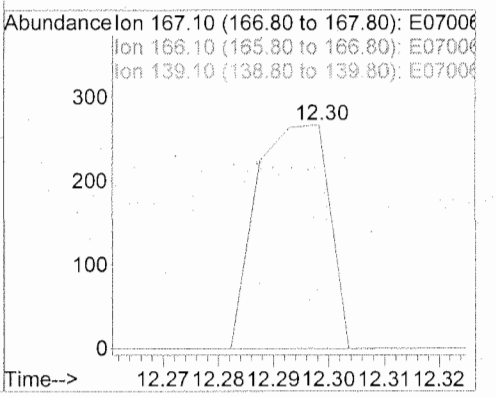


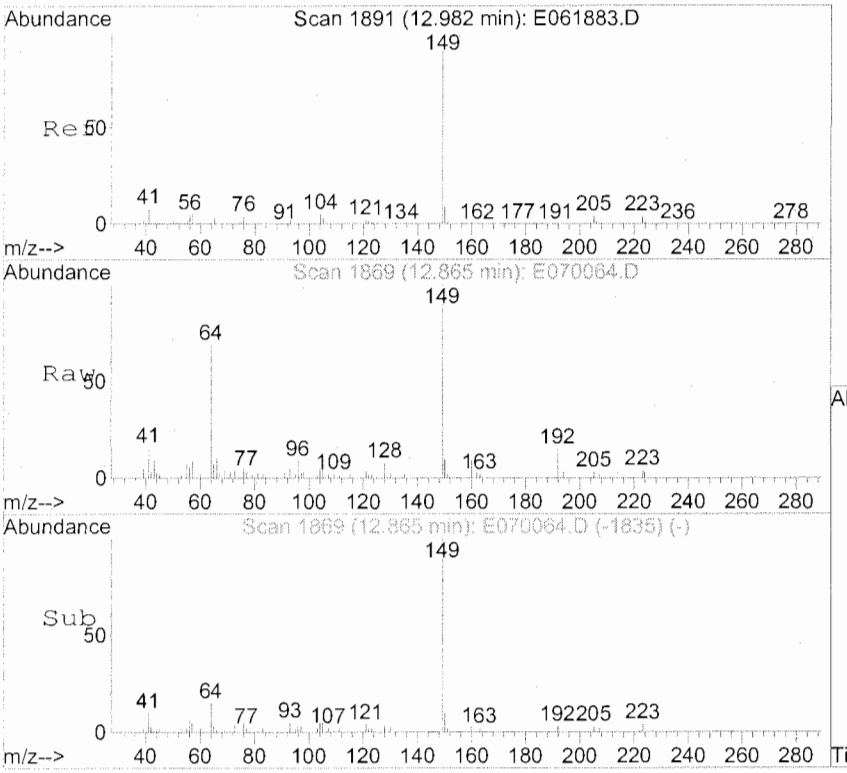


#67
Carbazole
Concen: Below Cal
RT: 12.30 min Scan# 1763
Delta R.T. -0.16 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion:167 Resp: 242

Ion	Ratio	Lower	Upper
167	100		
166	0.0	17.2	25.8#
139	0.0	10.6	16.0#

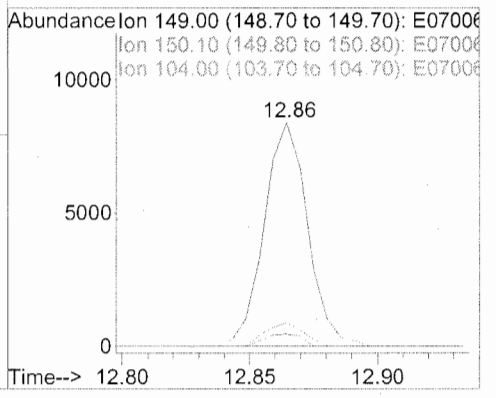


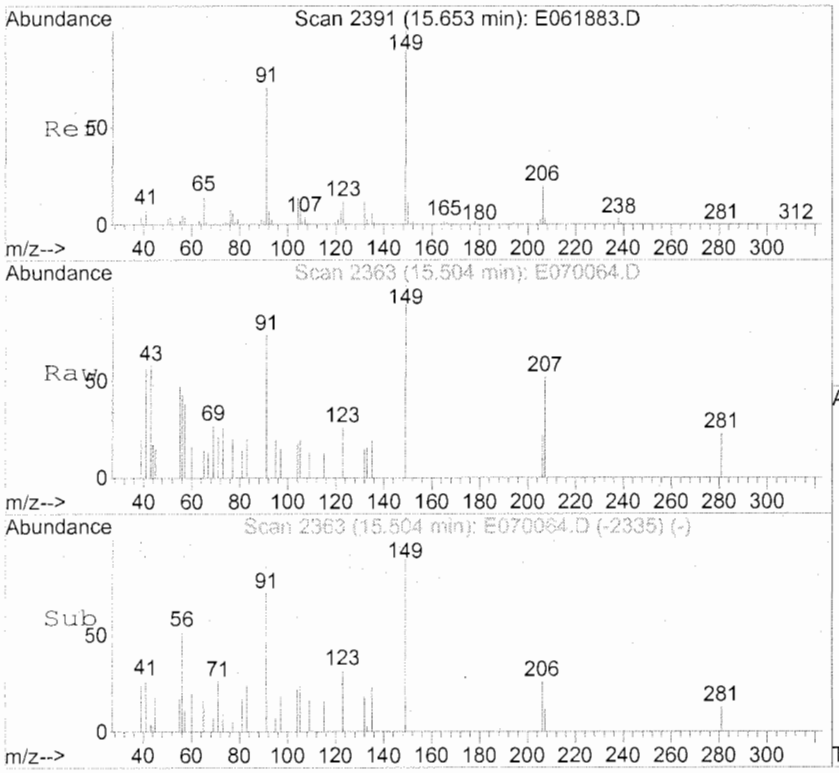


#68
Di-n-butylphthalate
Concen: 0.51 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion:149 Resp: 9942

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.7	4.6	7.0

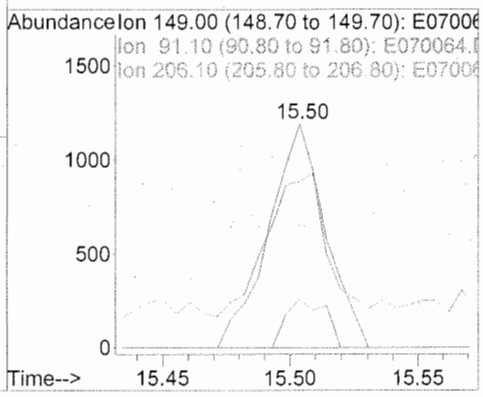


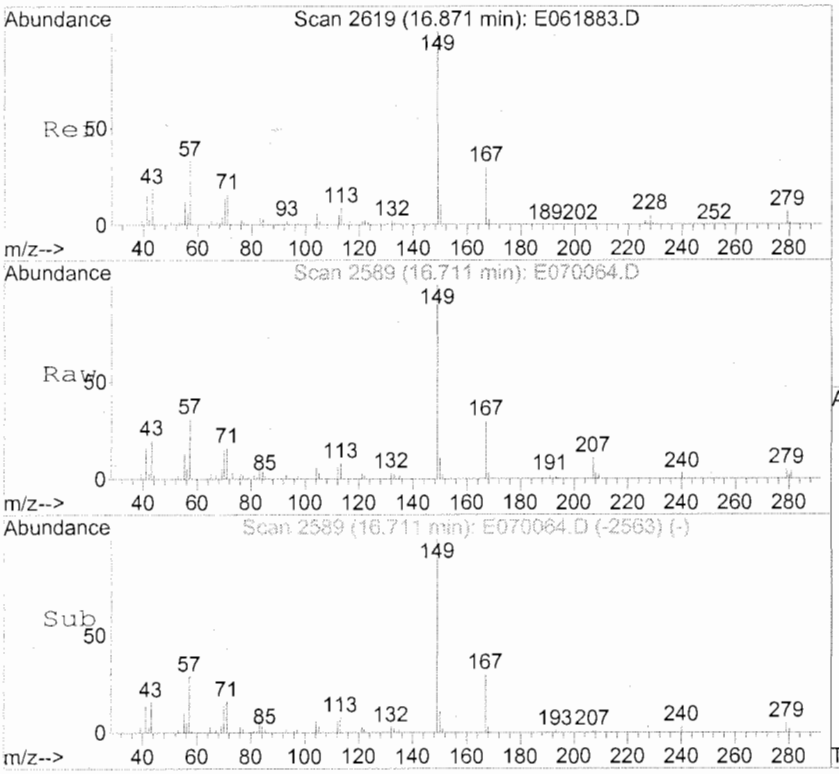


#74
Butylbenzylphthalate
Concen: 0.27 mg/L
RT: 15.50 min Scan# 2363
Delta R.T. -0.15 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion:149 Resp: 1837

Ion	Ratio	Lower	Upper
149	100		
91	73.4	59.4	89.0
206	14.9	19.0	28.6#

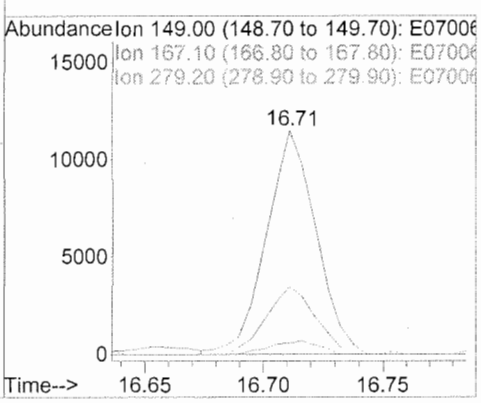


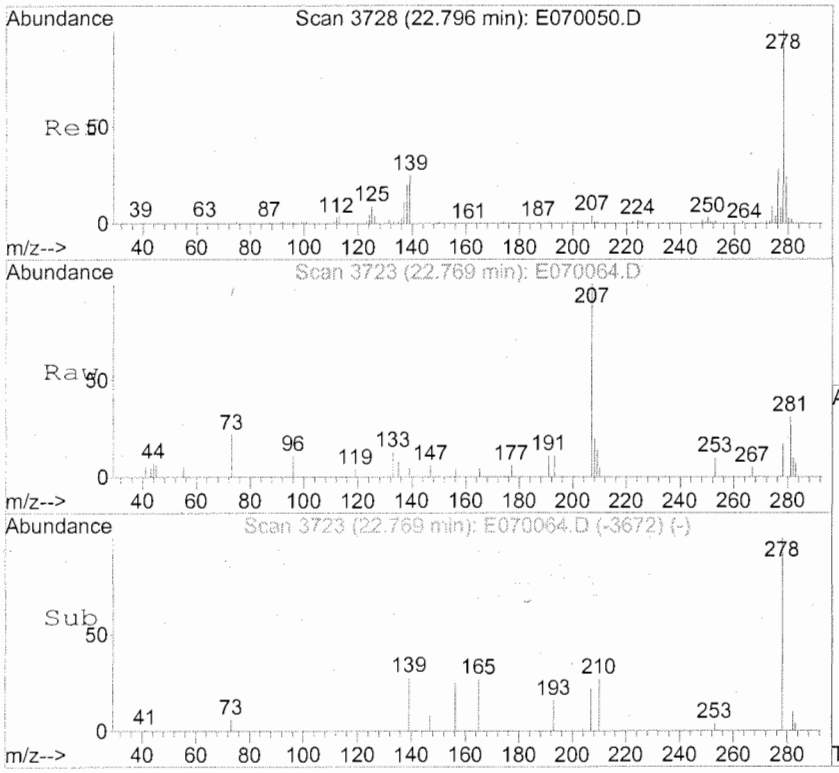


#78
Bis(2-ethylhexyl)phthalate
Concen: 1.87 mg/L
RT: 16.71 min Scan# 2589
Delta R.T. -0.16 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion:149 Resp: 16650

Ion	Ratio	Lower	Upper
149	100		
167	29.8	25.0	37.6
279	5.9	6.2	9.2#

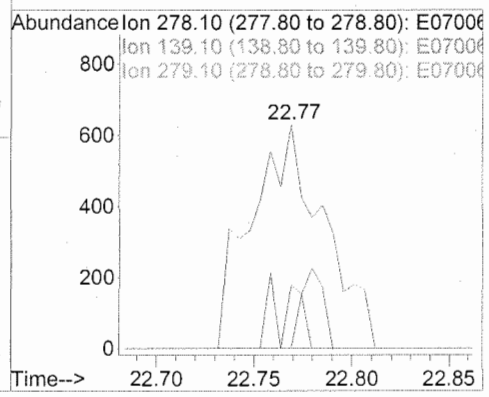


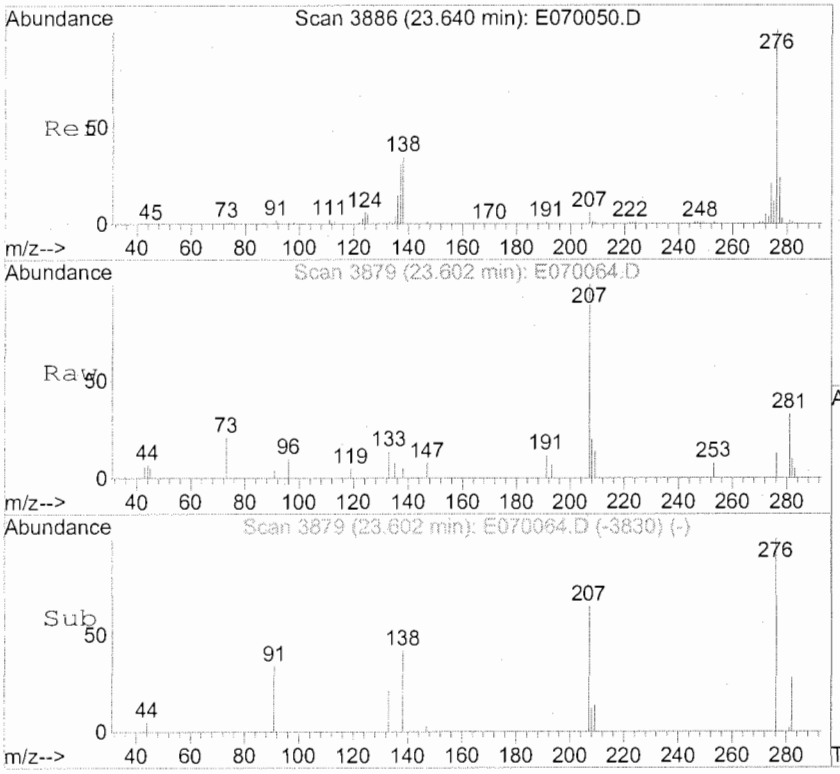


#86
Dibenz(a,h)anthracene
Concen: 0.38 mg/L
RT: 22.77 min Scan# 3723
Delta R.T. -0.03 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion:278 Resp: 1623

Ion	Ratio	Lower	Upper
278	100		
139	14.4	18.0	27.0#
279	3.0	19.4	29.0#

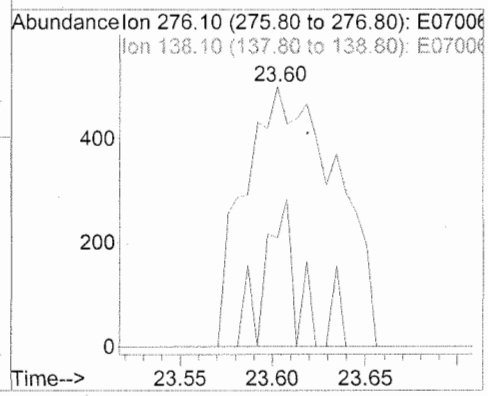




#87
Benzo(g,h,i)perylene
Concen: 0.42 mg/L
RT: 23.60 min Scan# 3879
Delta R.T. -0.04 min
Lab File: E070064.D
Acq: 18 Jan 2007 9:13 pm

Tgt Ion:276 Resp: 1712

Ion	Ratio	Lower	Upper
276	100		
138	19.2	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/11/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76119	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070065.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 21:45	**Quant Date:**	01/19/2007 09:13	**Vial:**	18
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-012			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	169059	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	679657	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	385487	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	595950	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	319693	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	199363	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	231016	42.92	86	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	313561	44.95	90	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	281474	49.02	98	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	578134	47.56	95	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	61291	42.88	86	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	453888	50.80	102	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptanee
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070065.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 21:45	**Quant Date:**	01/19/2007 09:13	**Vial:**	18
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-012			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid				122	0		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0d		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.71	-0.01	0.00	149	5926	0.4900	0.47	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070065.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 21:45	**Quant Date:**	01/19/2007 09:13	**Vial:**	18
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-012			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.87	-0.01	0.00	149	7562	0.4100	0.39	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	3591	0.4500	0.43	J	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070065.D Vial: 18
Acq On : 18 Jan 2007 9:45 pm Operator: GJ
Sample : D0700056-012 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:12:29 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	169059	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	679657	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	385487	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	595950	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	319693	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	199363	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	231016	42.92	mg/L	-0.06
Spiked Amount 50.000			Recovery = 85.84%			
7) Phenol-d5	5.81	99	313561	44.95	mg/L	-0.06
Spiked Amount 50.000			Recovery = 89.90%			
23) Nitrobenzene-d5	7.03	82	281474	49.02	mg/L	-0.08
Spiked Amount 50.000			Recovery = 98.04%			
41) 2-Fluorobiphenyl	9.30	172	578134	47.56	mg/L	-0.09
Spiked Amount 50.000			Recovery = 95.12%			
61) 2,4,6-Tribromophenol	11.17	330	61291	42.88	mg/L	-0.10
Spiked Amount 50.000			Recovery = 85.76%			
73) Terphenyl-d14	14.55	244	453888	50.80	mg/L	-0.13
Spiked Amount 50.000			Recovery = 101.60%			
Target Compounds						Qvalue
54) Diethylphthalate	10.71	149	5926	0.49	mg/L	96
68) Di-n-butylphthalate	12.87	149	7562	0.41	mg/L #	98
78) Bis(2-ethylhexyl)phthalate	16.72	149	3591	0.45	mg/L #	92

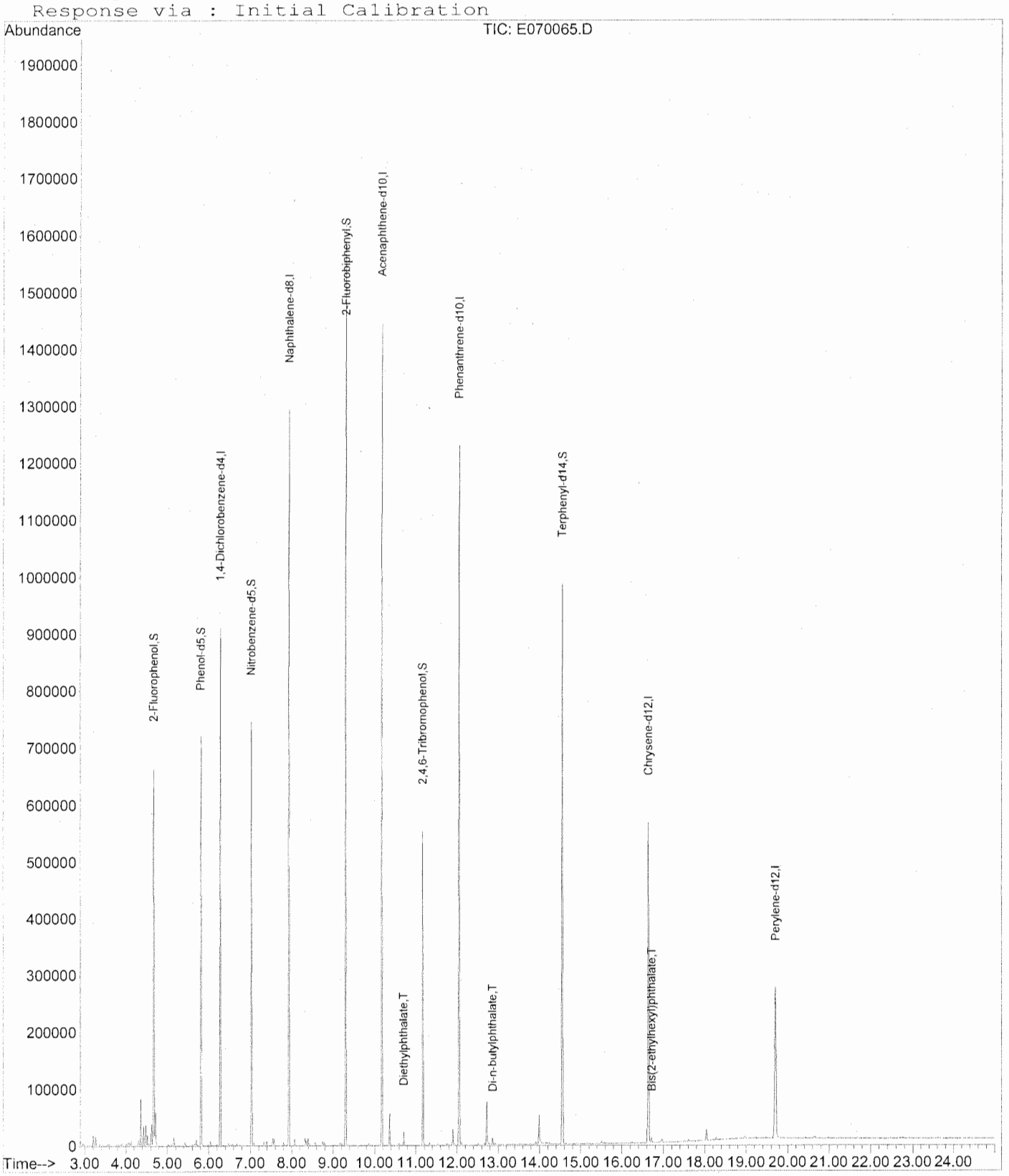
1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070065.D Vial: 18
Acq On : 18 Jan 2007 9:45 pm Operator: GJ
Sample : D0700056-012 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:13 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070065.D Vial: 18
Acq On : 18 Jan 2007 9:45 pm Operator: GJ
Sample : D0700056-012 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:12:29 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

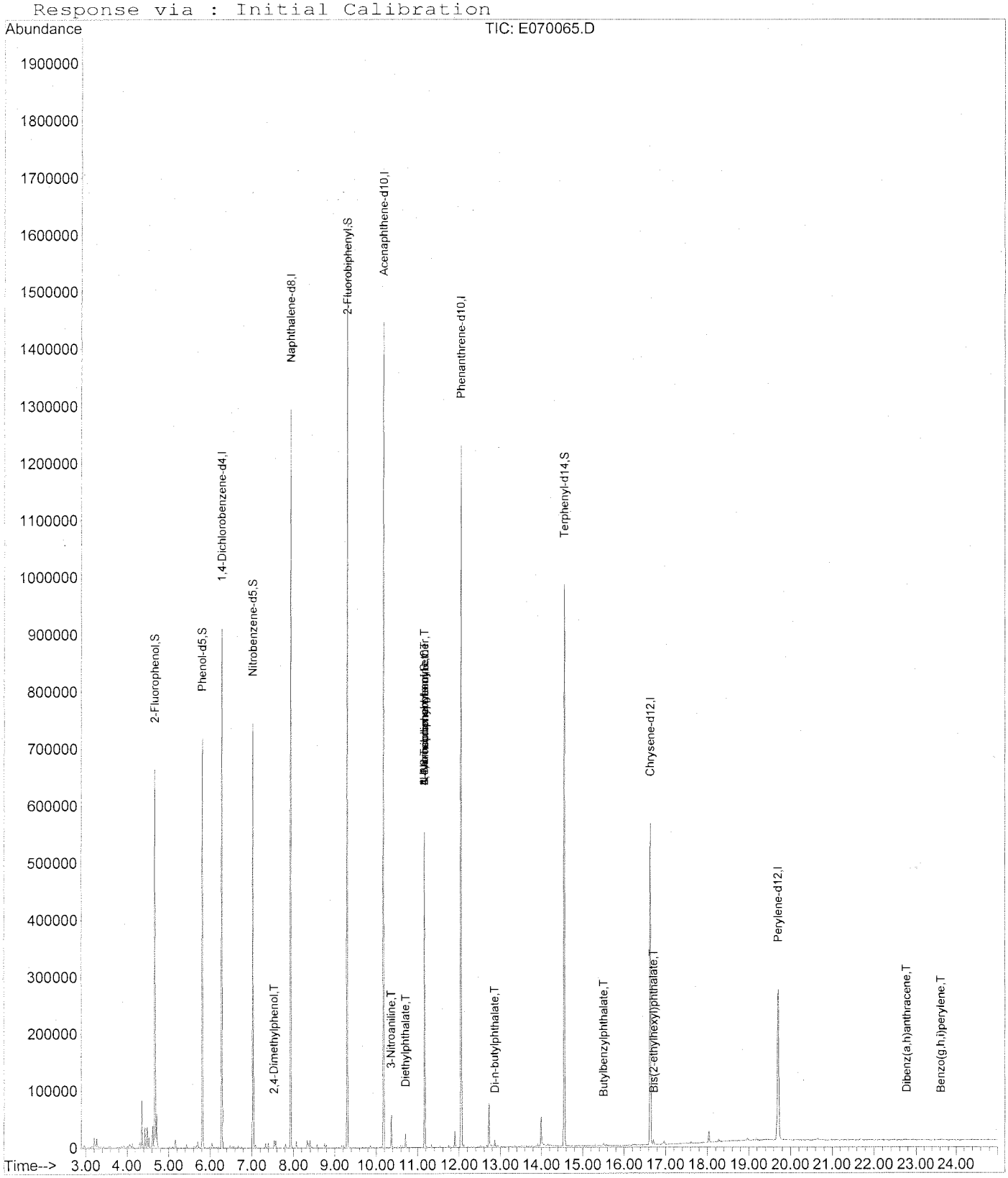
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	169059	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	679657	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	385487	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	595950	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	319693	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	199363	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	231016	42.92	mg/L	-0.06
Spiked Amount 50.000			Recovery =	85.84%		
7) Phenol-d5	5.81	99	313561	44.95	mg/L	-0.06
Spiked Amount 50.000			Recovery =	89.90%		
23) Nitrobenzene-d5	7.03	82	281474	49.02	mg/L	-0.08
Spiked Amount 50.000			Recovery =	98.04%		
41) 2-Fluorobiphenyl	9.30	172	578134	47.56	mg/L	-0.09
Spiked Amount 50.000			Recovery =	95.12%		
61) 2,4,6-Tribromophenol	11.17	330	61291	42.88	mg/L	-0.10
Spiked Amount 50.000			Recovery =	85.76%		
73) Terphenyl-d14	14.55	244	453888	50.80	mg/L	-0.13
Spiked Amount 50.000			Recovery =	101.60%		
Target Compounds						Qvalue
27) 2,4-Dimethylphenol	7.53	122	2604	0.47	mg/L #	1
47) 3-Nitroaniline	10.36	138	198	1.86	mg/L #	1
54) Diethylphthalate	10.71	149	5926	0.49	mg/L	96
59) N-Nitrosodiphenylamine	11.17	169	2787	0.33	mg/L #	43
62) 4-Bromophenyl phenyl ether	11.17	248	3638	1.16	mg/L #	1
68) Di-n-butylphthalate	12.87	149	7562	0.41	mg/L #	98
74) Butylbenzylphthalate	15.51	149	1305	0.21	mg/L #	63
78) Bis(2-ethylhexyl)phthalate	16.72	149	3591	0.45	mg/L #	92
86) Dibenz(a,h)anthracene	22.77	278	1366	0.34	mg/L #	56
87) Benzo(g,h,i)perylene	23.61	276	1560	0.41	mg/L #	61

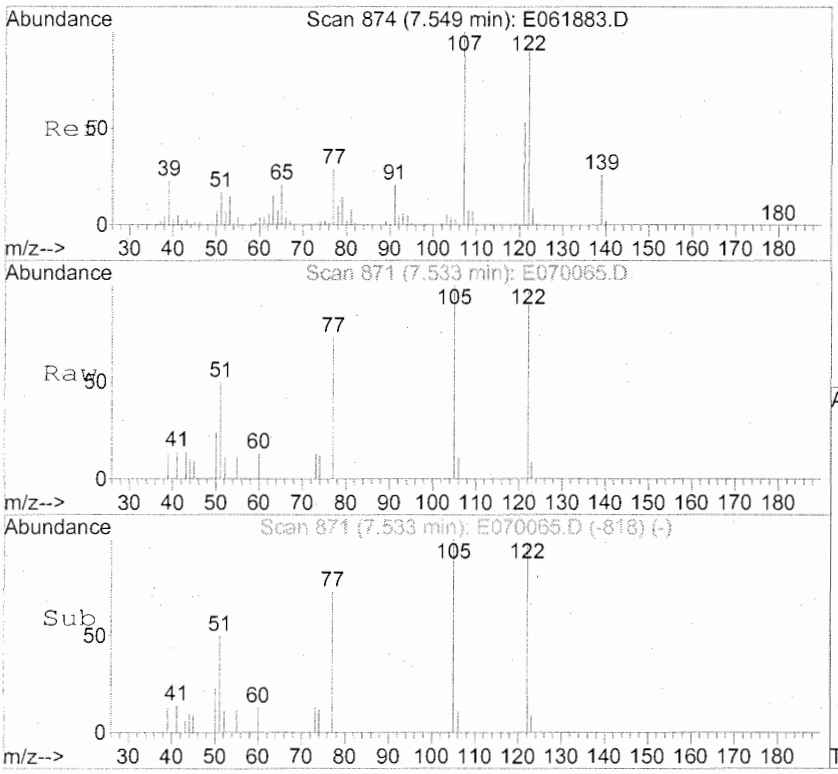
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070065.D Vial: 18
Acq On : 18 Jan 2007 9:45 pm Operator: GJ
Sample : D0700056-012 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:12 2007 Quant Results File: BA061226.RES

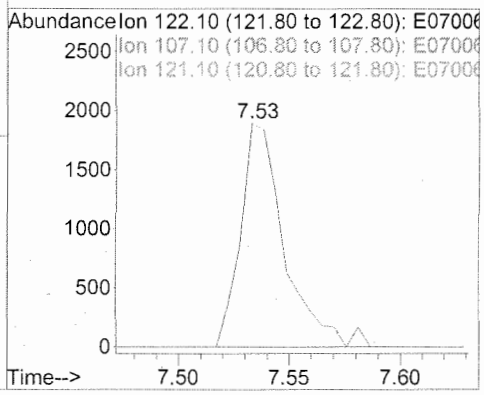
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

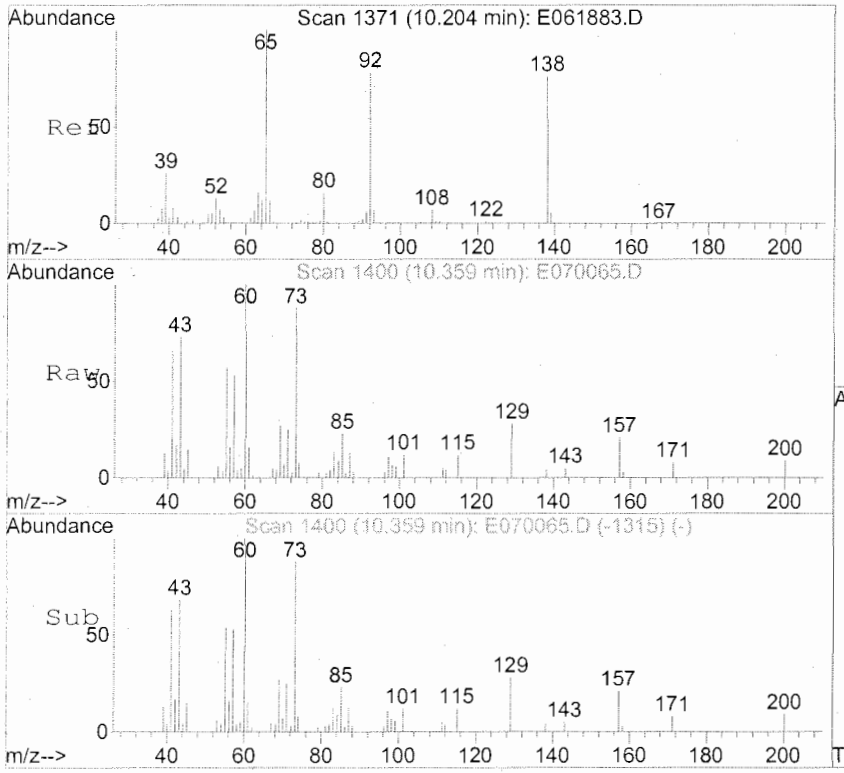




#27
2,4-Dimethylphenol
Concen: 0.47 mg/L
RT: 7.53 min Scan# 871
Delta R.T. -0.02 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

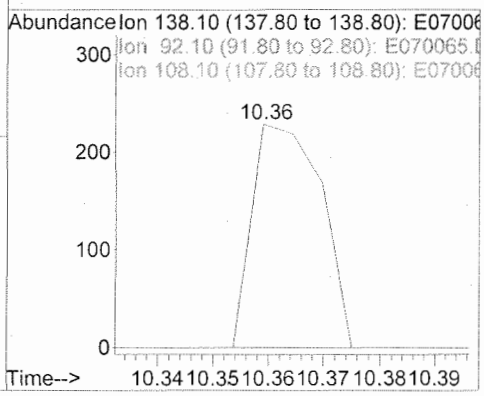
Tgt Ion:122	Resp:	2604	
Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

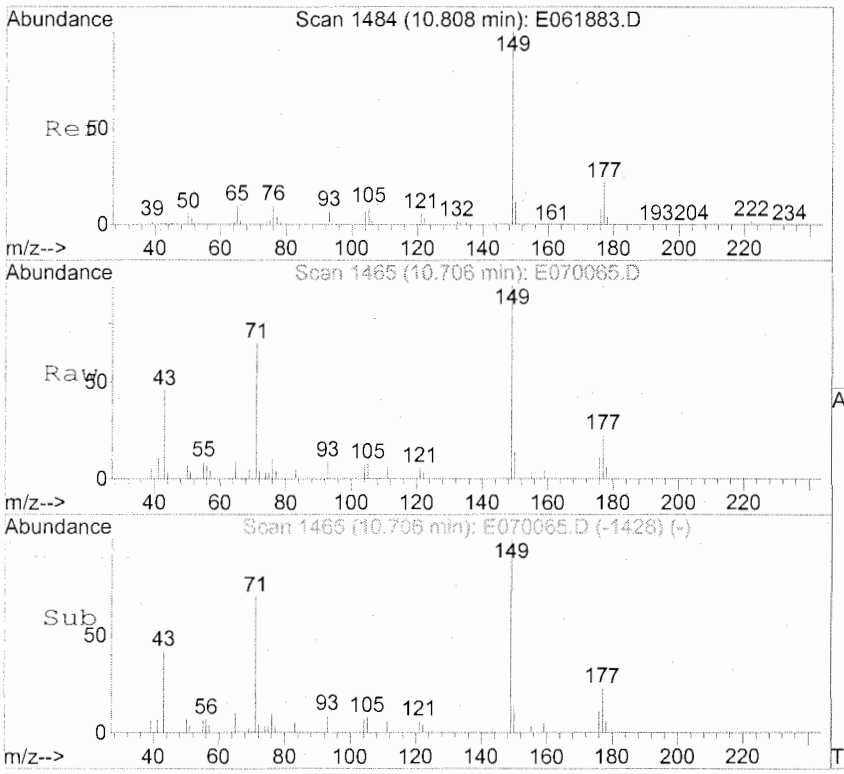




#47
3-Nitroaniline
Concen: 1.86 mg/L
RT: 10.36 min Scan# 1400
Delta R.T. 0.16 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

Tgt Ion:138	Resp:	198	
Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

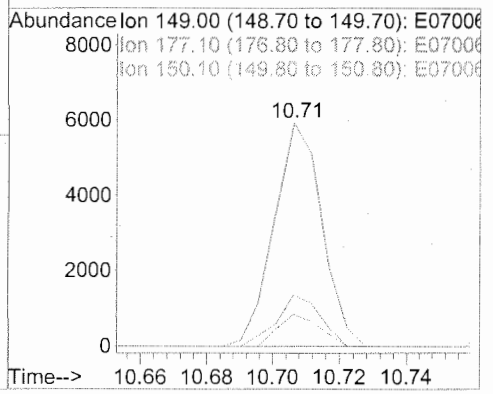


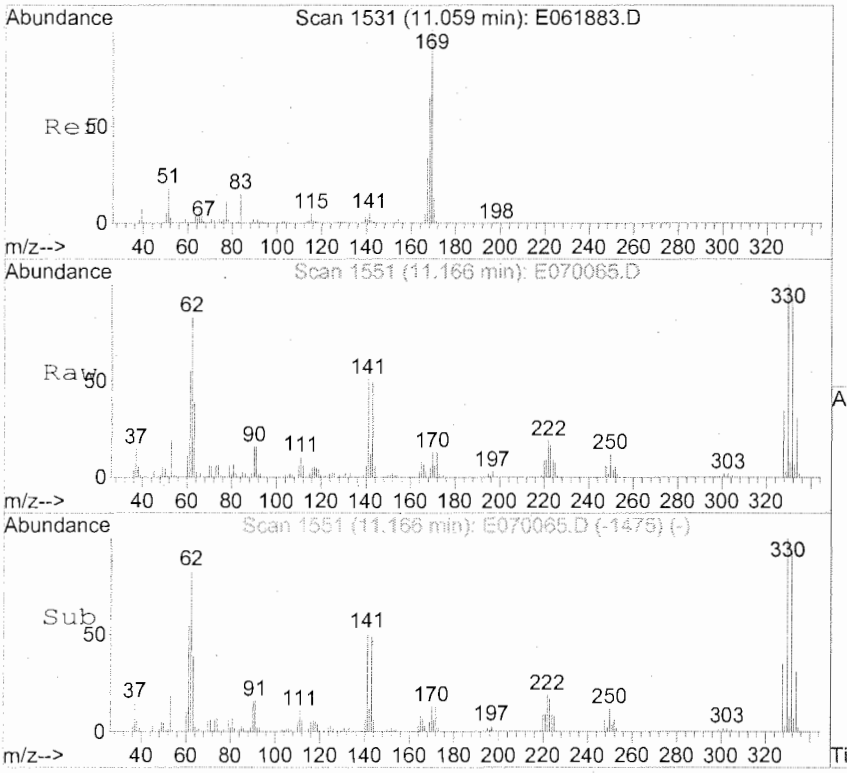


#54
Diethylphthalate
Concen: 0.49 mg/L
RT: 10.71 min Scan# 1465
Delta R.T. -0.10 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

Tgt Ion:149 Resp: 5926

Ion	Ratio	Lower	Upper
149	100		
177	20.9	19.0	28.6
150	12.4	10.0	15.0

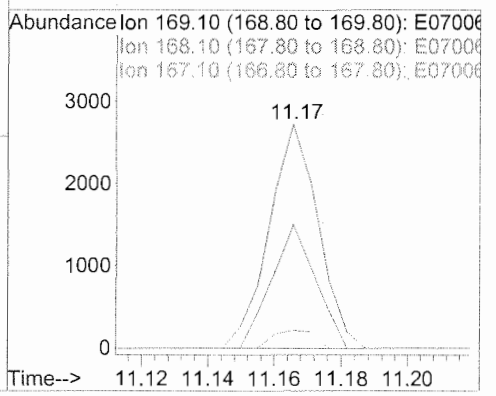


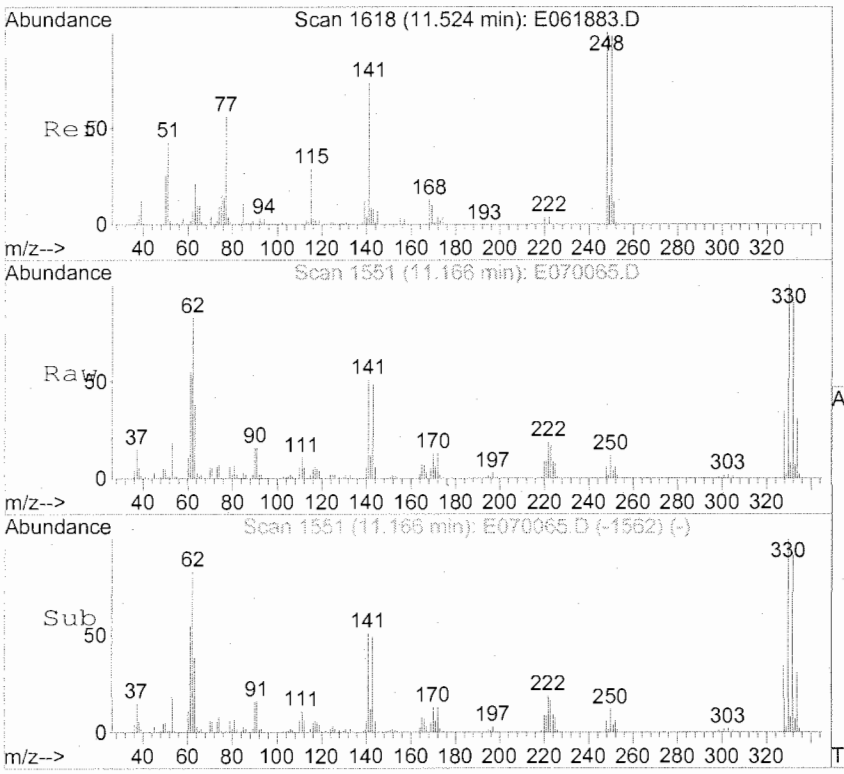


#59
N-Nitrosodiphenylamine
Concen: 0.33 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

Tgt Ion:169 Resp: 2787

Ion	Ratio	Lower	Upper
169	100		
168	6.8	50.8	76.2#
167	49.6	27.0	40.4#

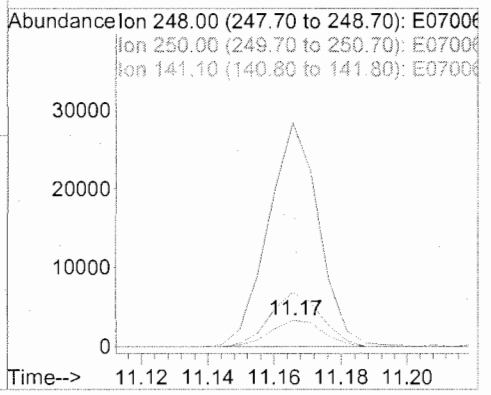


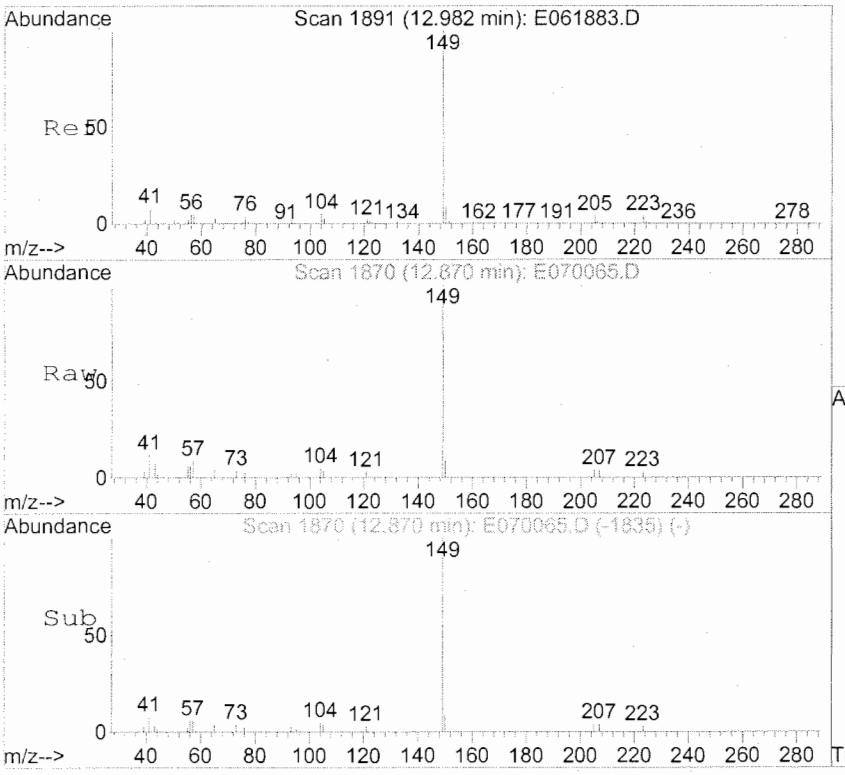


#62
4-Bromophenyl phenyl ether
Concen: 1.16 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

Tgt Ion:248 Resp: 3638

Ion	Ratio	Lower	Upper
248	100		
250	200.7	79.0	118.4#
141	823.9	64.3	96.5#

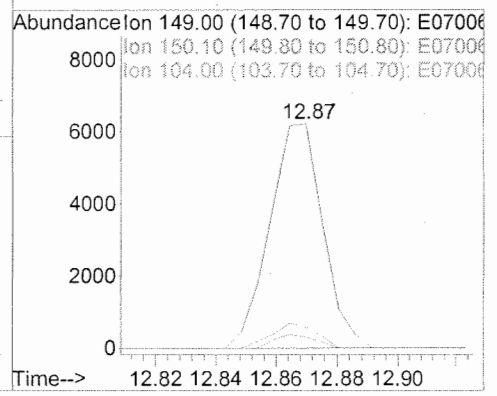


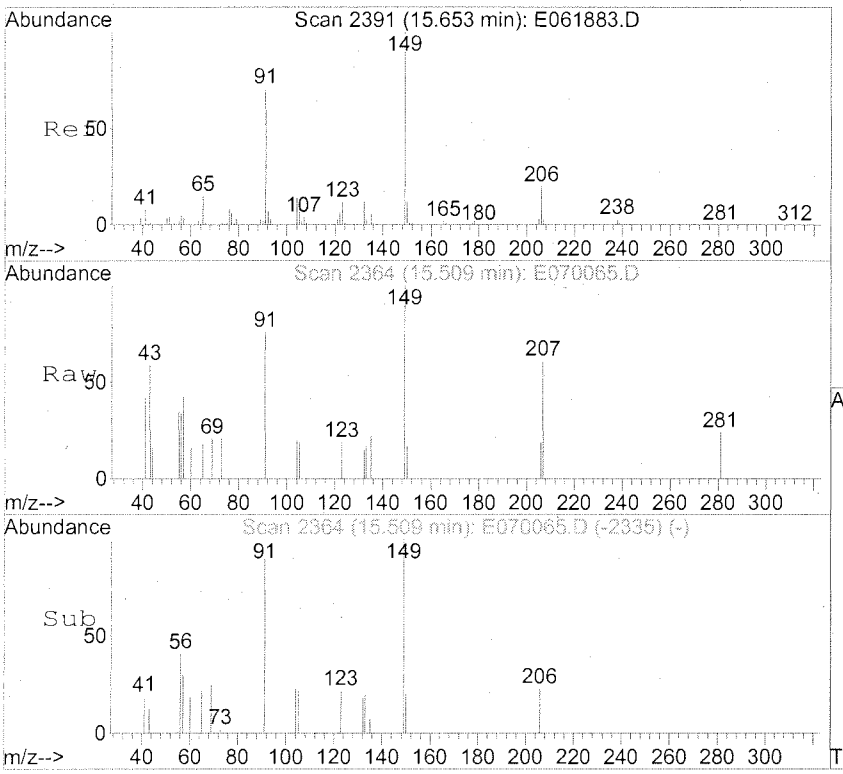


#68
Di-n-butylphthalate
Concen: 0.41 mg/L
RT: 12.87 min Scan# 1870
Delta R.T. -0.11 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

Tgt Ion:149 Resp: 7562

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.6	4.6	7.0#

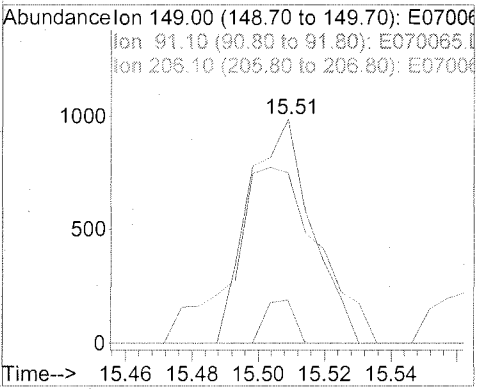


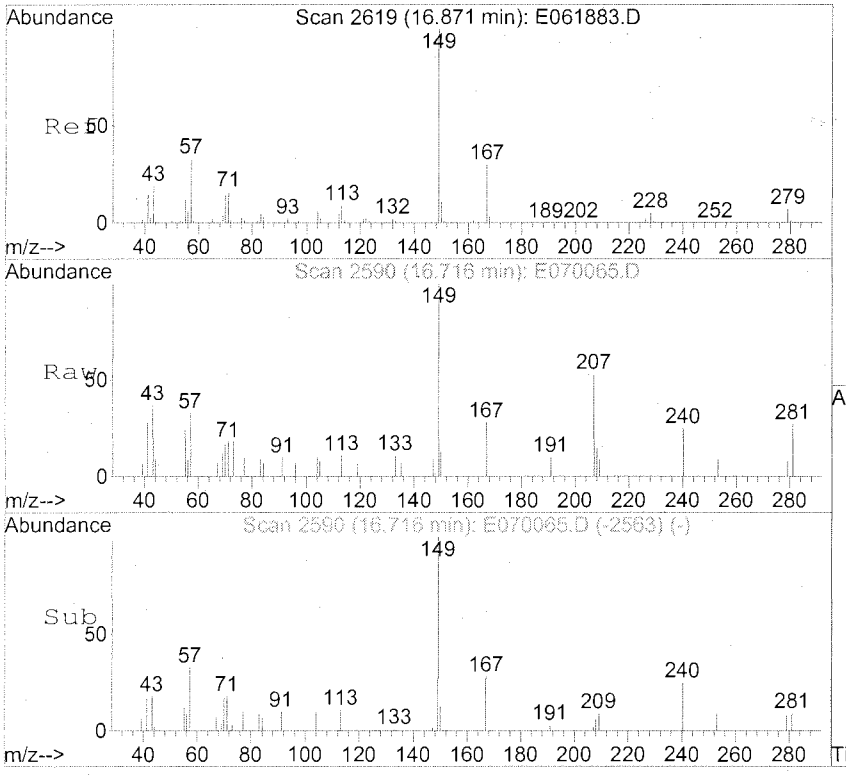


#74
Butylbenzylphthalate
Concen: 0.21 mg/L
RT: 15.51 min Scan# 2364
Delta R.T. -0.14 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

Tgt Ion:149 Resp: 1305

Ion	Ratio	Lower	Upper
149	100		
91	107.7	59.4	89.0#
206	9.0	19.0	28.6#

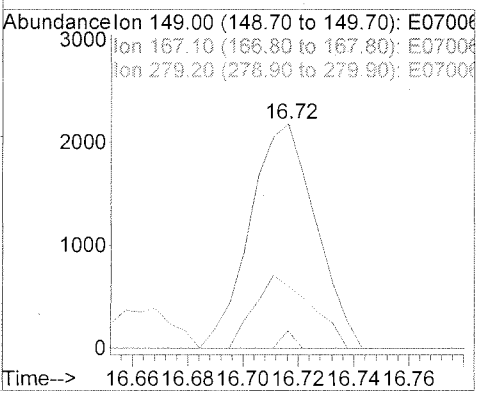


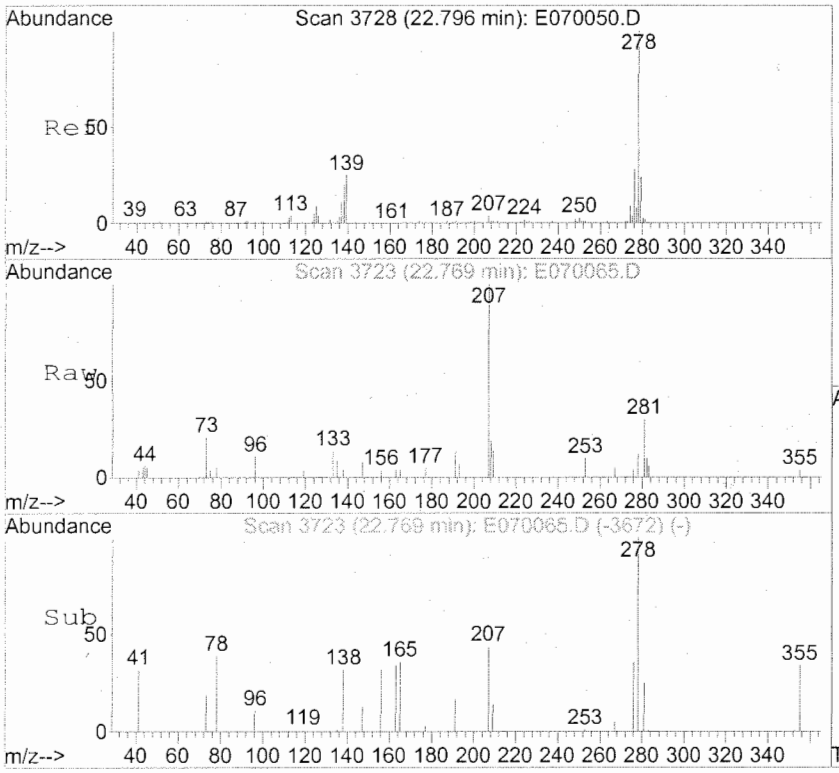


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.45 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

Tgt Ion:149 Resp: 3591

Ion	Ratio	Lower	Upper
149	100		
167	27.9	25.0	37.6
279	1.5	6.2	9.2#

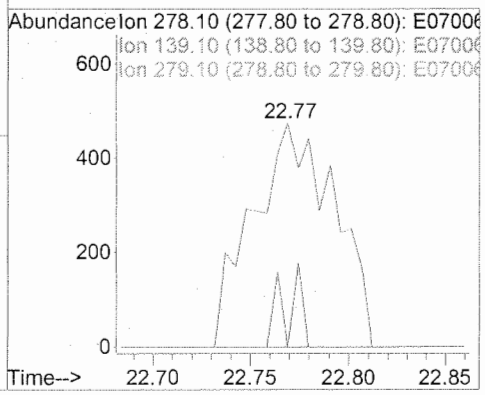


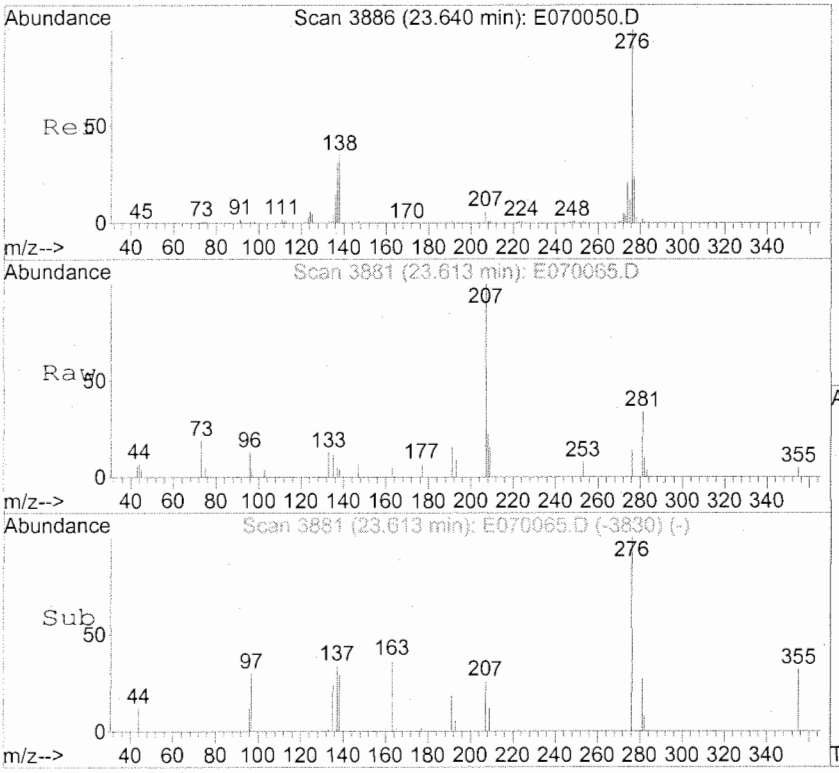


#86
Dibenz(a,h)anthracene
Concen: 0.34 mg/L
RT: 22.77 min Scan# 3723
Delta R.T. -0.03 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

Tgt Ion:278 Resp: 1366

Ion	Ratio	Lower	Upper
278	100		
139	3.7	18.0	27.0#
279	0.0	19.4	29.0#

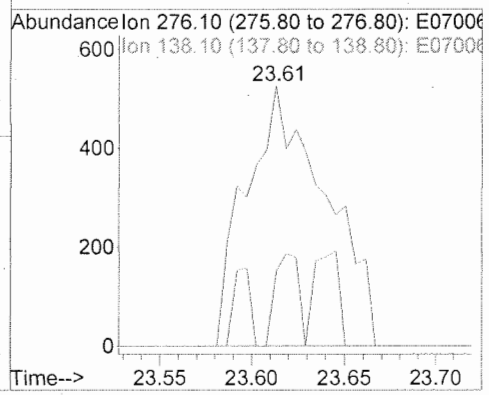




#87
Benzo(g,h,i)perylene
Concen: 0.41 mg/L
RT: 23.61 min Scan# 3881
Delta R.T. -0.03 min
Lab File: E070065.D
Acq: 18 Jan 2007 9:45 pm

Tgt Ion:276 Resp: 1560

Ion	Ratio	Lower	Upper
276	100		
138	10.6	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/11/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76120	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070066.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 22:17	**Quant Date:**	01/19/2007 09:16	**Vial:**	19
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-013			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	153785	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	610616	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	344356	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	528981	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	273145	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	153264	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	206579	42.19	84	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	281053	44.29	89	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	251618	48.77	98	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	526347	48.48	97	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	55248	43.54	87	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	411128	53.85	108	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.96	0.01	0.00	88	4246	1.89	1.9	J	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Mannal integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insuffieient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070066.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 22:17	**Quant Date:**	01/19/2007 09:16	**Vial:**	19
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-013			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid	7.53	-0.20	-0.03	122	1435	0.4400	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene	7.96		0.00	128	37960	2.37	2.4	J	
2	4-Chloroaniline				127	0**d**		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0**d**		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0**d**		0.29	U	
3	Acenaphthene	10.21	-0.01	0.00	154	73610	7.08	7.1		
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran	10.41		0.00	168	12006	0.8800	0.88	J	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene	10.84	-0.01	0.00	166	10461	0.9500	0.95	J	
3	Diethyl Phthalate	10.71	-0.01	0.00	149	3230	0.3000	0.30	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0**d**		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070066.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 22:17	**Quant Date:**	01/19/2007 09:16	**Vial:**	19
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-013			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0d		0.21	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	6024	0.3700	0.37	J	
4	Fluoranthene				202	0d		0.21	U	
5	Pyrene				202	0d		0.33	U	
5	Butyl Benzyl Phthalate	15.50	-0.01	0.00	149	1899	0.3600	0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	8727	1.27	1.3	J	
6	Di-n-octyl Phthalate				149	0d		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0d		0.62	U	
6	Benzo(g,h,i)perylene				276	0d		0.74	U	

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070066.D Vial: 19
Acq On : 18 Jan 2007 10:17 pm Operator: GJ
Sample : D0700056-013 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:14:28 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

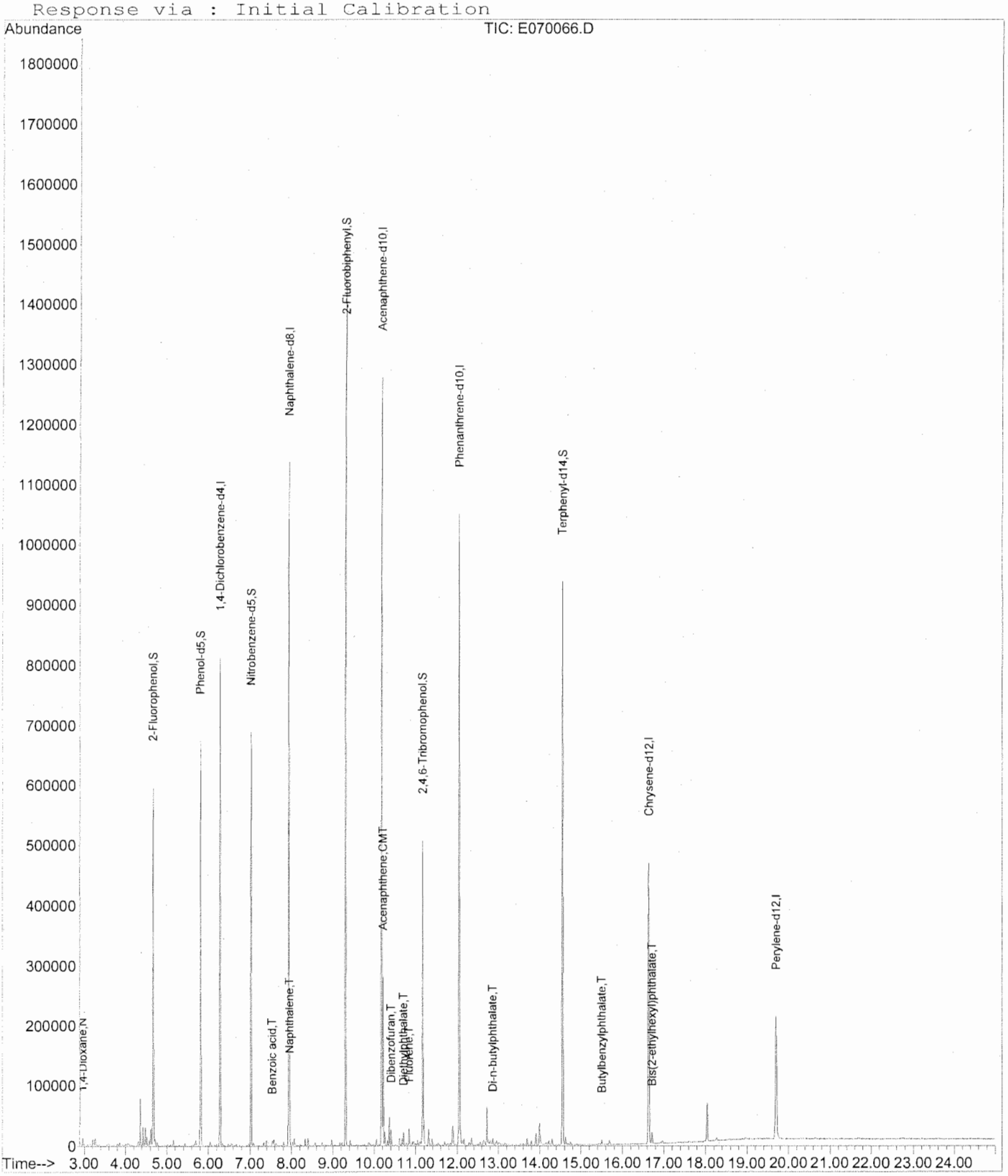
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	153785	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	610616	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	344356	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	528981	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	273145	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	153264	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	206579	42.19	mg/L	-0.06
Spiked Amount 50.000			Recovery =	84.38%		
7) Phenol-d5	5.81	99	281053	44.29	mg/L	-0.06
Spiked Amount 50.000			Recovery =	88.58%		
23) Nitrobenzene-d5	7.03	82	251618	48.77	mg/L	-0.08
Spiked Amount 50.000			Recovery =	97.54%		
41) 2-Fluorobiphenyl	9.30	172	526347	48.48	mg/L	-0.09
Spiked Amount 50.000			Recovery =	96.96%		
61) 2,4,6-Tribromophenol	11.17	330	55248	43.54	mg/L	-0.10
Spiked Amount 50.000			Recovery =	87.08%		
73) Terphenyl-d14	14.55	244	411128	53.85	mg/L	-0.13
Spiked Amount 50.000			Recovery =	107.70%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	4246	1.89	mg/L	85
28) Benzoic acid	7.53	122	1435	0.44	mg/L	90
32) Naphthalene	7.96	128	37960	2.37	mg/L	99
48) Acenaphthene	10.21	154	73610	7.08	mg/L	99
51) Dibenzofuran	10.41	168	12006	0.88	mg/L	93
53) Fluorene	10.84	166	10461	0.95	mg/L	90
54) Diethylphthalate	10.71	149	3230	0.30	mg/L	92
67) Carbazole	12.35	167	6022	Below Cal		97
68) Di-n-butylphthalate	12.86	149	6024	0.37	mg/L #	94
74) Butylbenzylphthalate	15.50	149	1899	0.36	mg/L #	92
78) Bis(2-ethylhexyl)phthalate	16.72	149	8727	1.27	mg/L #	96

GJ 1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E070118\E070066.D Vial: 19
Acq On : 18 Jan 2007 10:17 pm Operator: GJ
Sample : D0700056-013 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:16 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070066.D Vial: 19
Acq On : 18 Jan 2007 10:17 pm Operator: GJ
Sample : D0700056-013 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:14:28 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

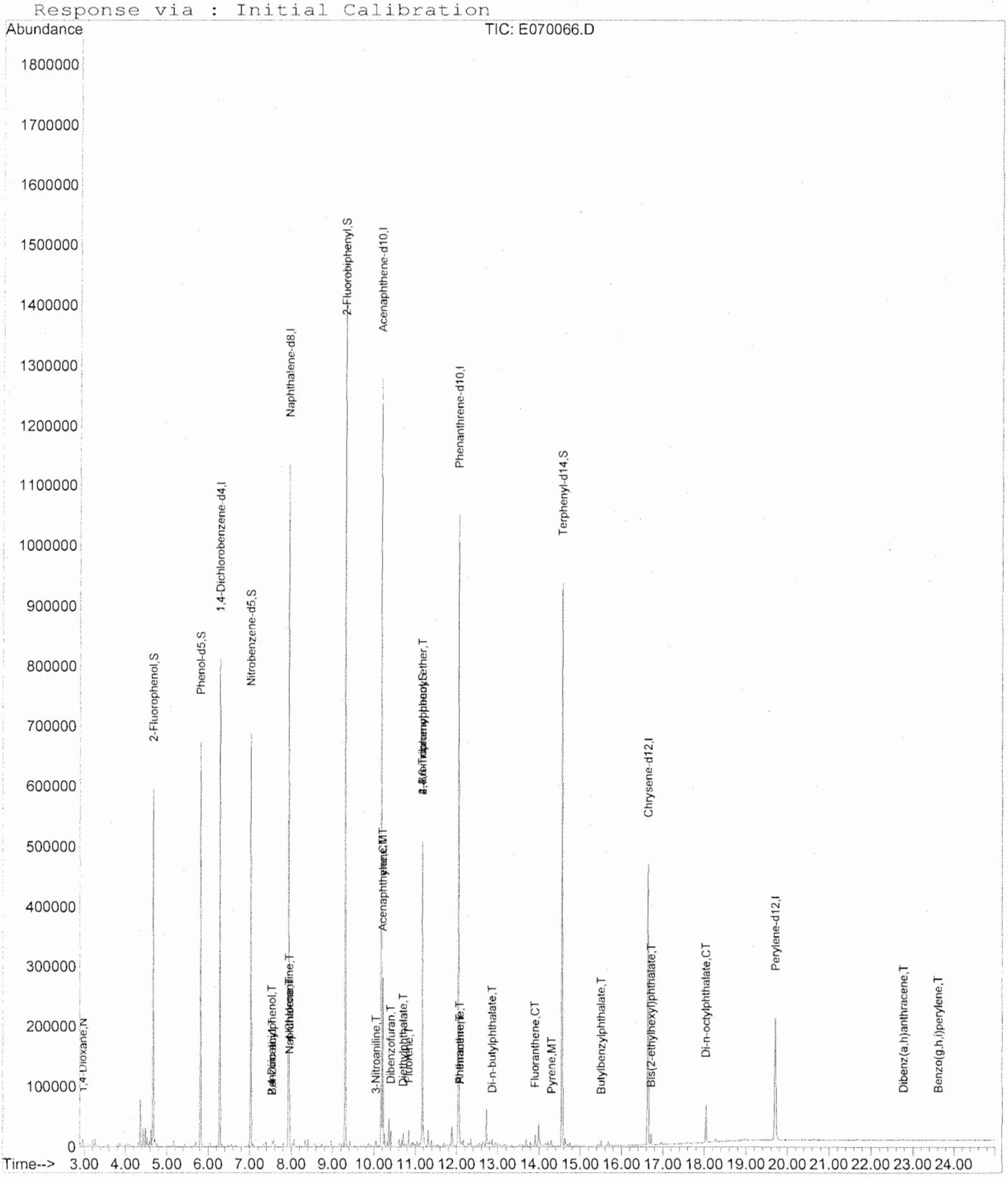
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	153785	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	610616	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	344356	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	528981	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	273145	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	153264	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	206579	42.19	mg/L	-0.06
Spiked Amount 50.000			Recovery = 84.38%			
7) Phenol-d5	5.81	99	281053	44.29	mg/L	-0.06
Spiked Amount 50.000			Recovery = 88.58%			
23) Nitrobenzene-d5	7.03	82	251618	48.77	mg/L	-0.08
Spiked Amount 50.000			Recovery = 97.54%			
41) 2-Fluorobiphenyl	9.30	172	526347	48.48	mg/L	-0.09
Spiked Amount 50.000			Recovery = 96.96%			
61) 2,4,6-Tribromophenol	11.17	330	55248	43.54	mg/L	-0.10
Spiked Amount 50.000			Recovery = 87.08%			
73) Terphenyl-d14	14.55	244	411128	53.85	mg/L	-0.13
Spiked Amount 50.000			Recovery = 107.70%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	4246	1.89	mg/L	85
27) 2,4-Dimethylphenol	7.53	122	1435	0.29	mg/L #	1
28) Benzoic acid	7.53	122	1435	0.44	mg/L	90
32) Naphthalene	7.96	128	37960	2.37	mg/L	99
33) 4-Chloroaniline	7.95	127	4947	0.88	mg/L #	52
45) Acenaphthylene	10.21	152	36409	2.31	mg/L #	1
47) 3-Nitroaniline	10.05	138	150	1.84	mg/L #	1
48) Acenaphthene	10.21	154	73610	7.08	mg/L	99
51) Dibenzofuran	10.41	168	12006	0.88	mg/L	93
53) Fluorene	10.84	166	10461	0.95	mg/L	90
54) Diethylphthalate	10.71	149	3230	0.30	mg/L	92
62) 4-Bromophenyl phenyl ether	11.17	248	3517	1.27	mg/L #	1
65) Phenanthrene	12.08	178	6638	0.45	mg/L	96
66) Anthracene	12.08	178	6638	0.46	mg/L	96
67) Carbazole	12.35	167	6022	Below Cal		97
68) Di-n-butylphthalate	12.86	149	6024	0.37	mg/L #	94
69) Fluoranthene	13.91	202	8657	0.69	mg/L #	94
72) Pyrene	14.30	202	6427	0.54	mg/L	96
74) Butylbenzylphthalate	15.50	149	1899	0.36	mg/L #	92
78) Bis(2-ethylhexyl)phthalate	16.72	149	8727	1.27	mg/L #	96
81) Di-n-octylphthalate	18.04	149	9361	0.95	mg/L #	74
86) Dibenz(a,h)anthracene	22.77	278	1118	0.37	mg/L #	64
87) Benzo(g,h,i)perylene	23.62	276	1336	0.46	mg/L #	50

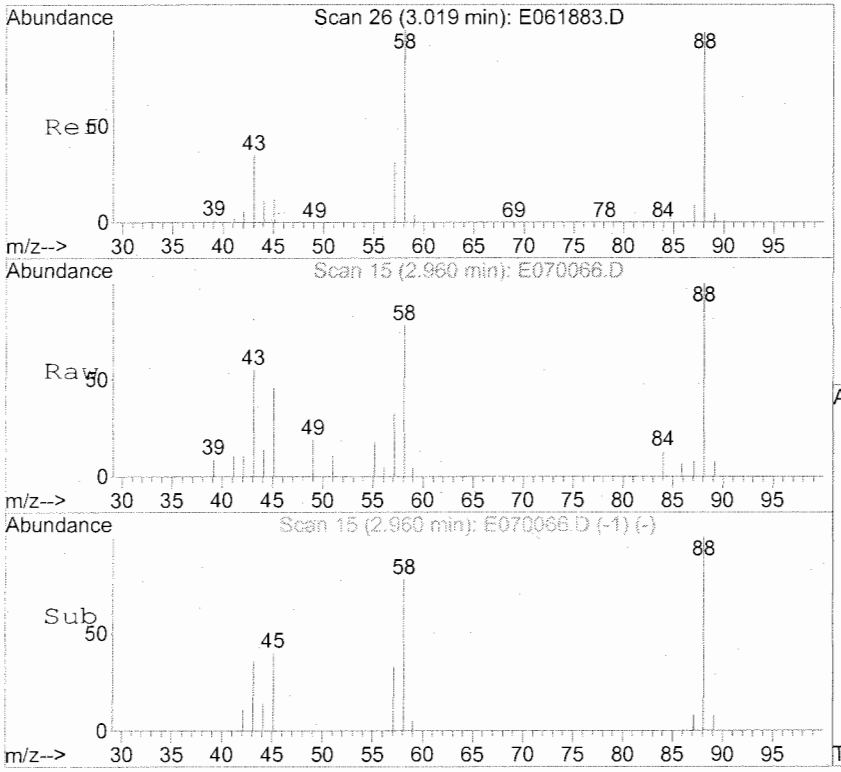
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070066.D Vial: 19
Acq On : 18 Jan 2007 10:17 pm Operator: GJ
Sample : D0700056-013 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:14 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

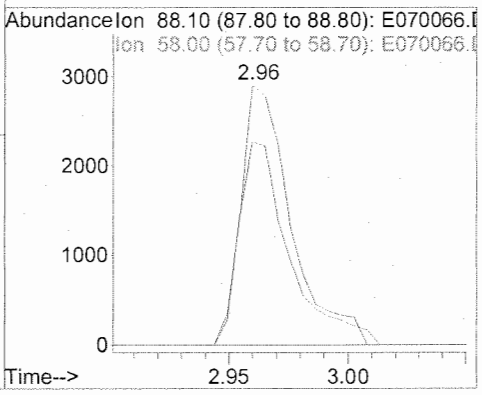


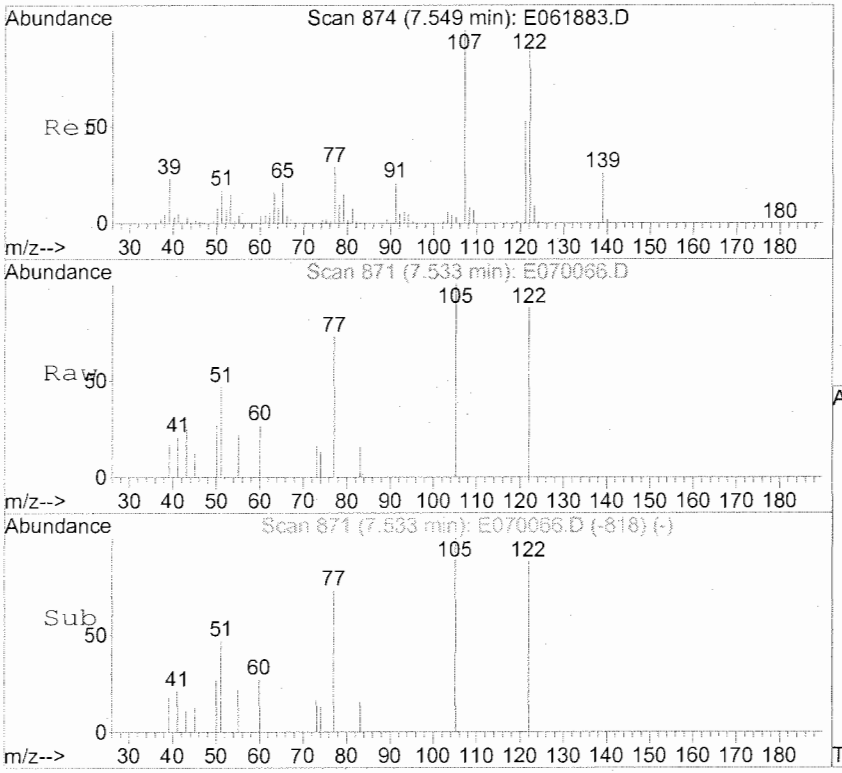


#2
1,4-Dioxane
Concen: 1.89 mg/L
RT: 2.96 min Scan# 15
Delta R.T. -0.06 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion: 88 Resp: 4246

Ion	Ratio	Lower	Upper
88	100		
58	78.9	53.5	80.3

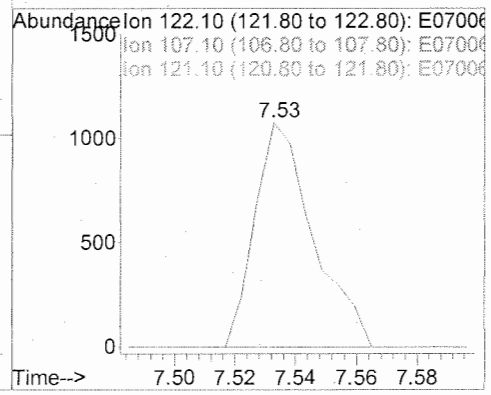


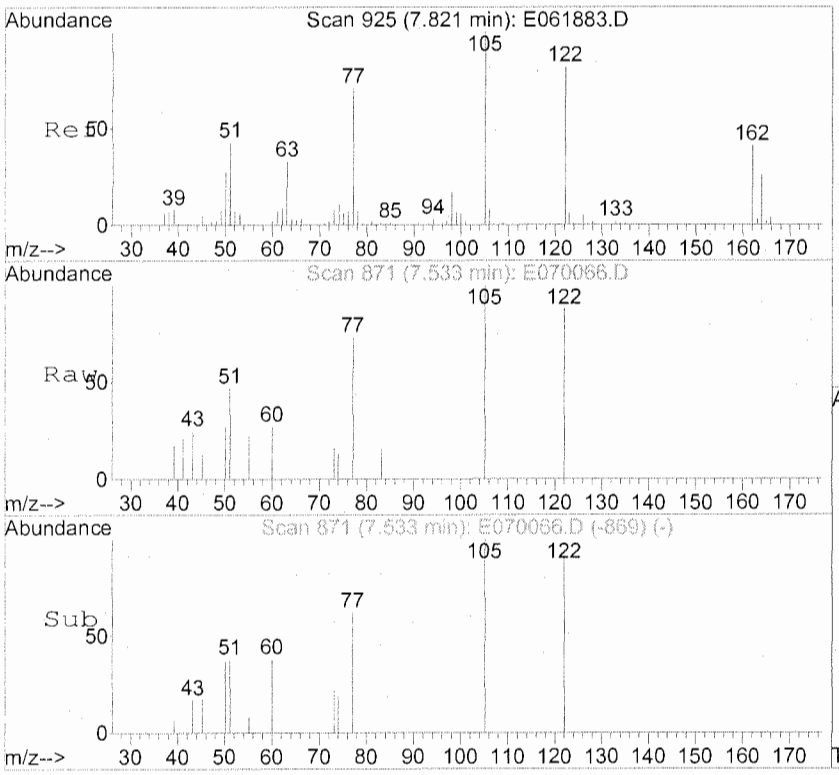


#27
2,4-Dimethylphenol
Concen: 0.29 mg/L
RT: 7.53 min Scan# 871
Delta R.T. -0.02 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:122 Resp: 1435

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

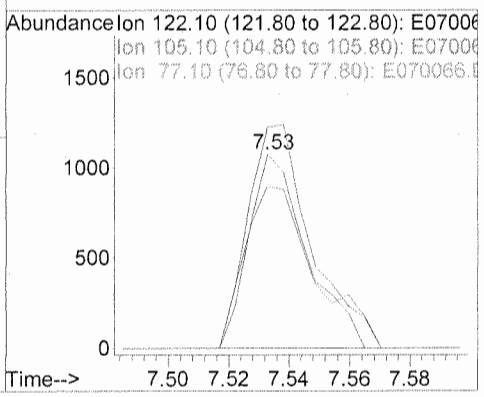


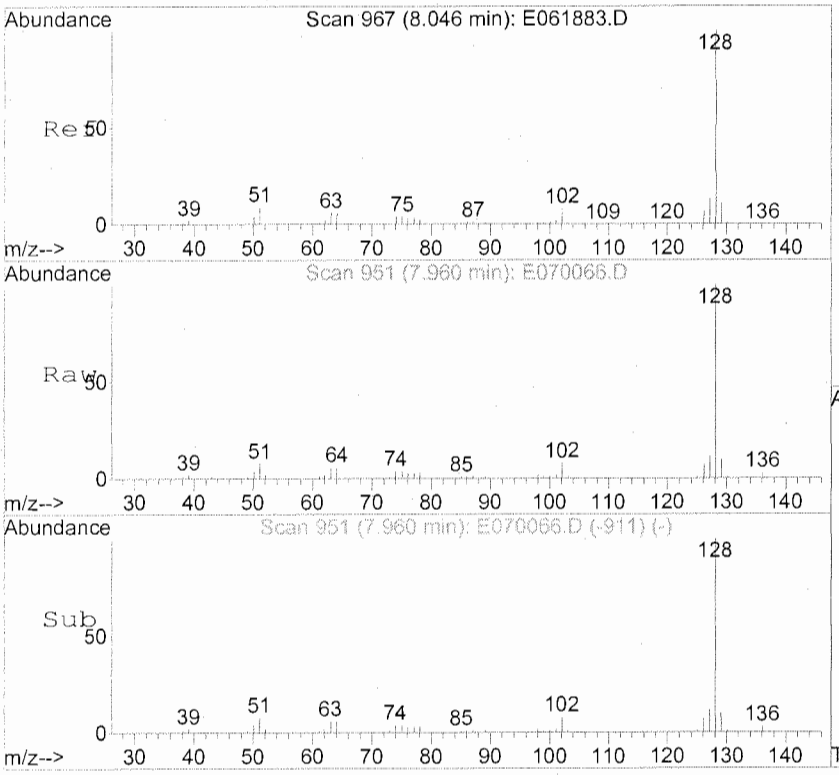


#28
Benzoic acid
Concen: 0.44 mg/L
RT: 7.53 min Scan# 871
Delta R.T. -0.29 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:122 Resp: 1435

Ion	Ratio	Lower	Upper
122	100		
105	126.2	110.2	165.2
77	100.1	89.8	134.8

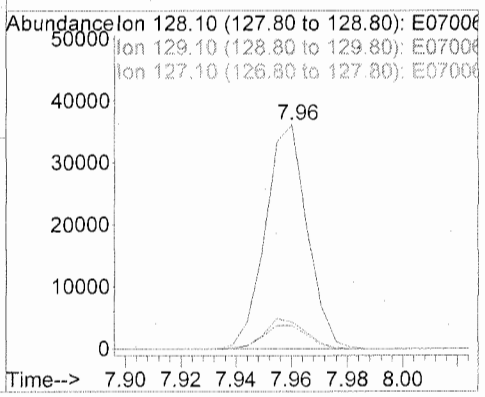


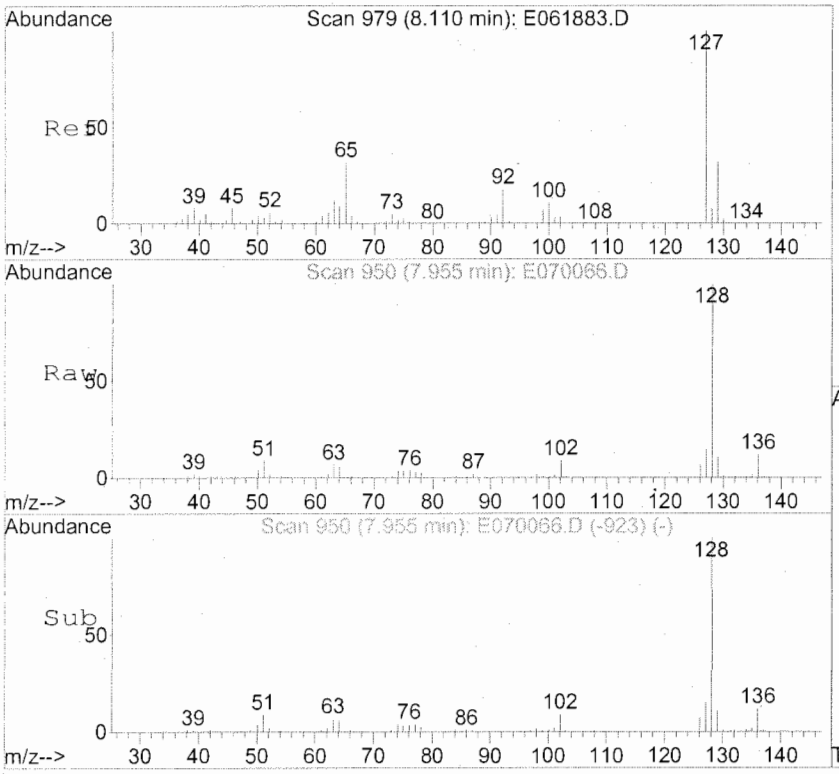


#32
Naphthalene
Concen: 2.37 mg/L
RT: 7.96 min Scan# 951
Delta R.T. -0.09 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:128 Resp: 37960

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.0	10.7	16.1

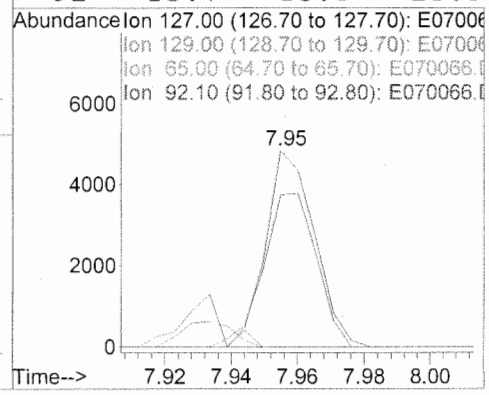


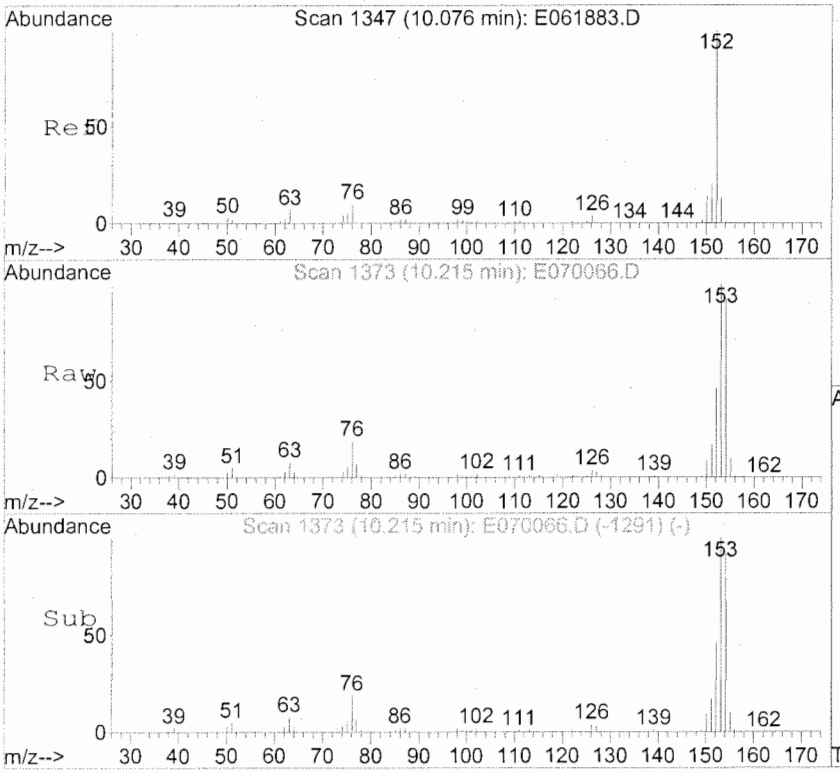


#33
4-Chloroaniline
Concen: 0.88 mg/L
RT: 7.95 min Scan# 950
Delta R.T. -0.15 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:127 Resp: 4947

Ion	Ratio	Lower	Upper
127	100		
129	84.9	25.9	38.9#
65	20.8	27.8	41.8#
92	13.7	15.9	23.9#

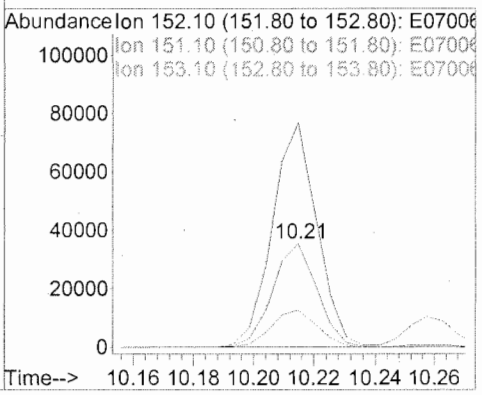


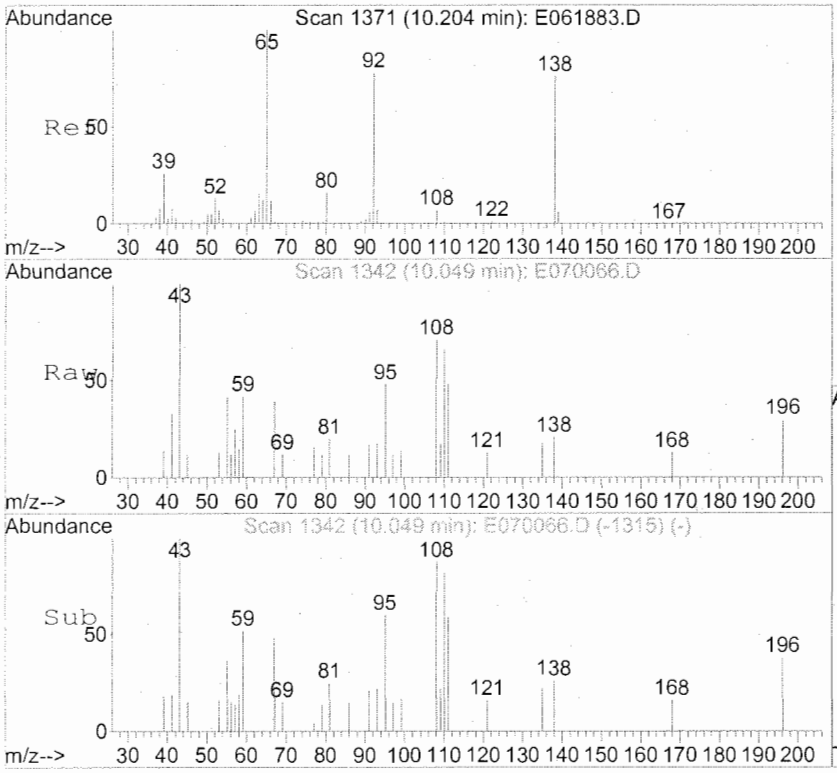


#45
Acenaphthylene
Concen: 2.31 mg/L
RT: 10.21 min Scan# 1373
Delta R.T. 0.14 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:152 Resp: 36409

Ion	Ratio	Lower	Upper
152	100		
151	37.0	16.0	24.0#
153	216.7	10.3	15.5#

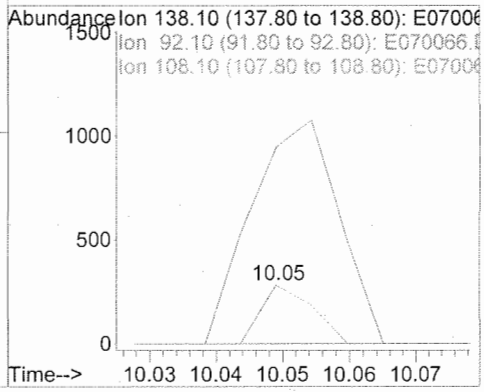


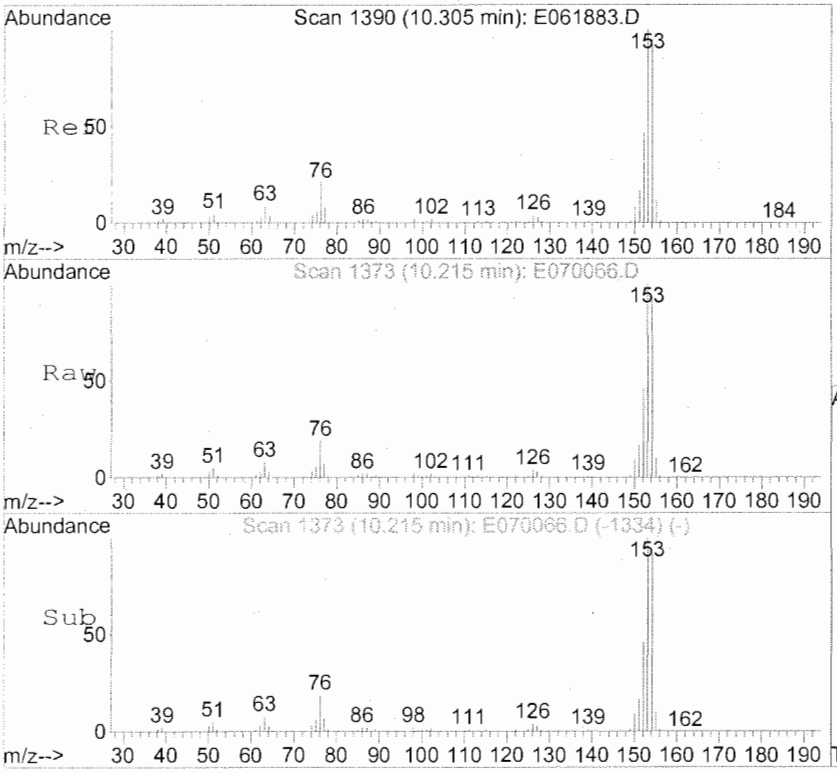


#47
3-Nitroaniline
Concen: 1.84 mg/L
RT: 10.05 min Scan# 1342
Delta R.T. -0.15 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:138 Resp: 150

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	652.0	8.1	12.1#

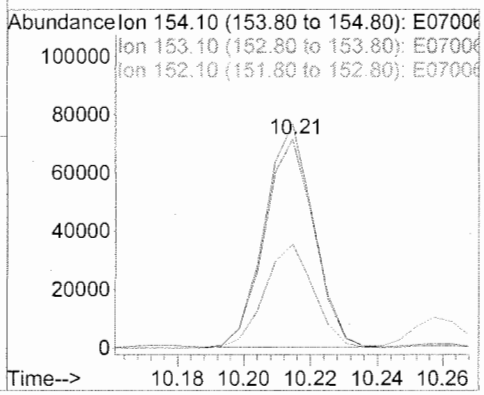


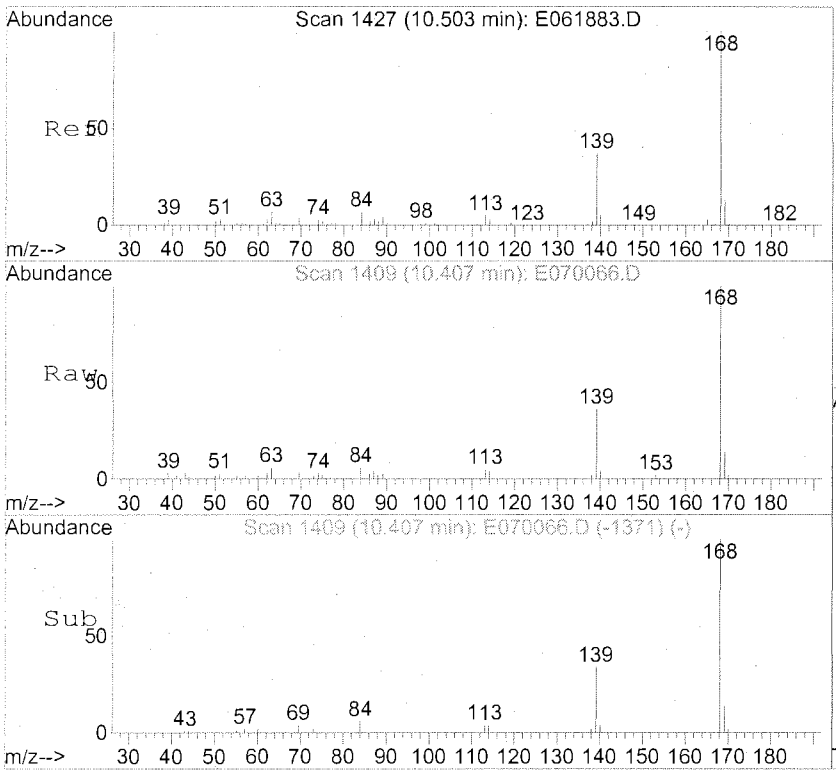


#48
Acenaphthene
Concen: 7.08 mg/L
RT: 10.21 min Scan# 1373
Delta R.T. -0.09 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:154 Resp: 73610

Ion	Ratio	Lower	Upper
154	100		
153	107.2	86.3	129.5
152	49.5	39.8	59.8

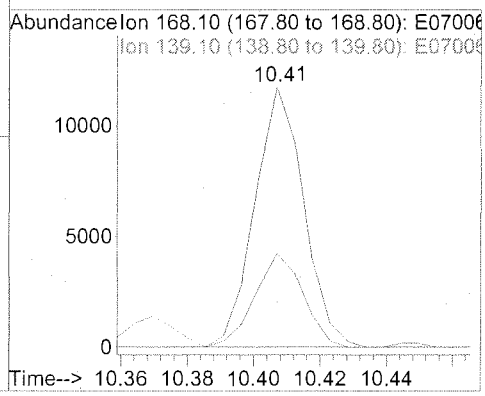


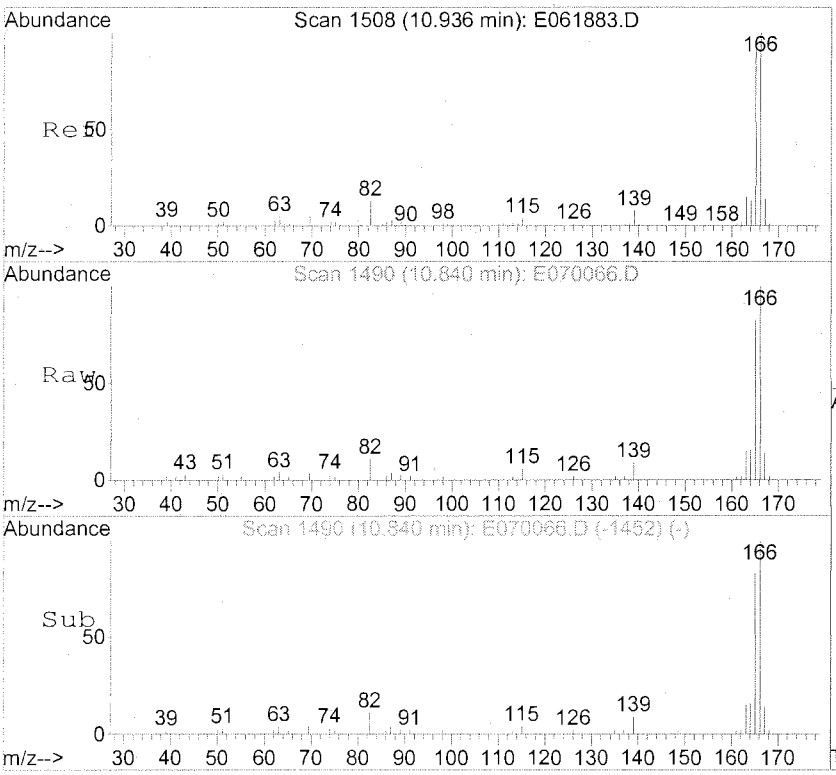


#51
Dibenzofuran
Concen: 0.88 mg/L
RT: 10.41 min Scan# 1409
Delta R.T. -0.10 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:168 Resp: 12006

Ion	Ratio	Lower	Upper
168	100		
139	35.3	31.8	47.8

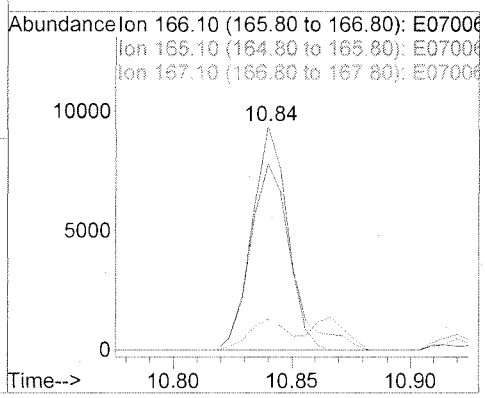


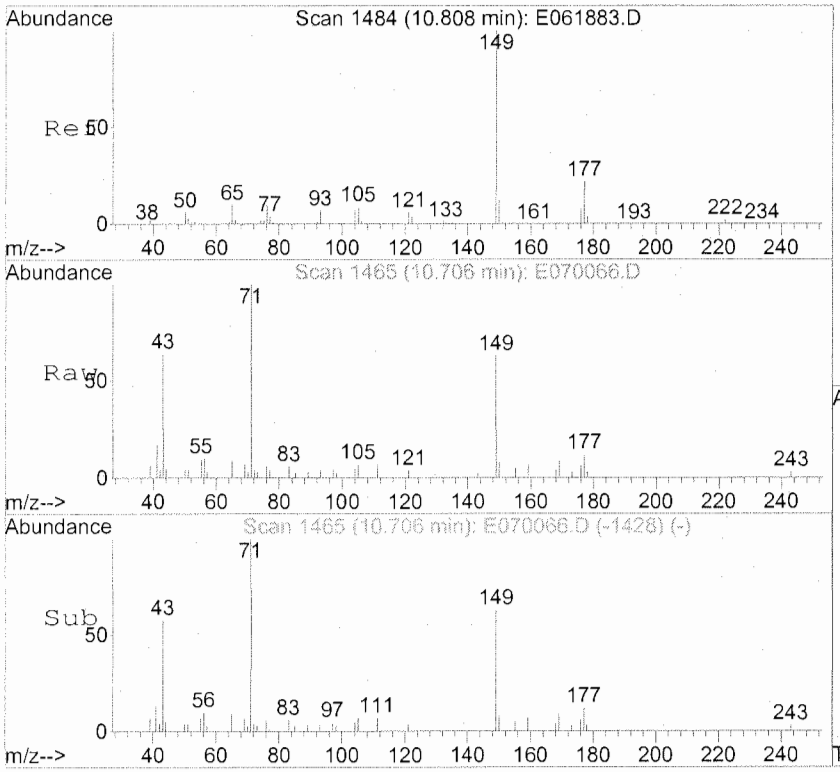


#53
Fluorene
Concen: 0.95 mg/L
RT: 10.84 min Scan# 1490
Delta R.T. -0.10 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:166 Resp: 10461

Ion	Ratio	Lower	Upper
166	100		
165	82.8	74.9	112.3
167	13.6	10.7	16.1

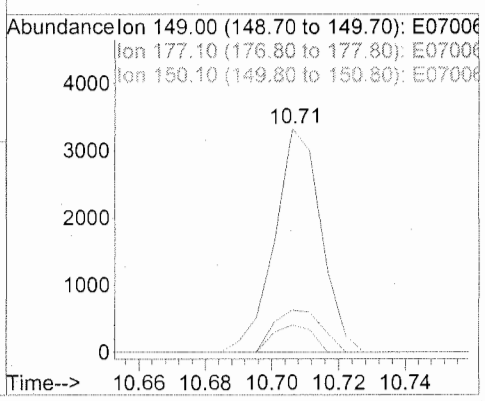


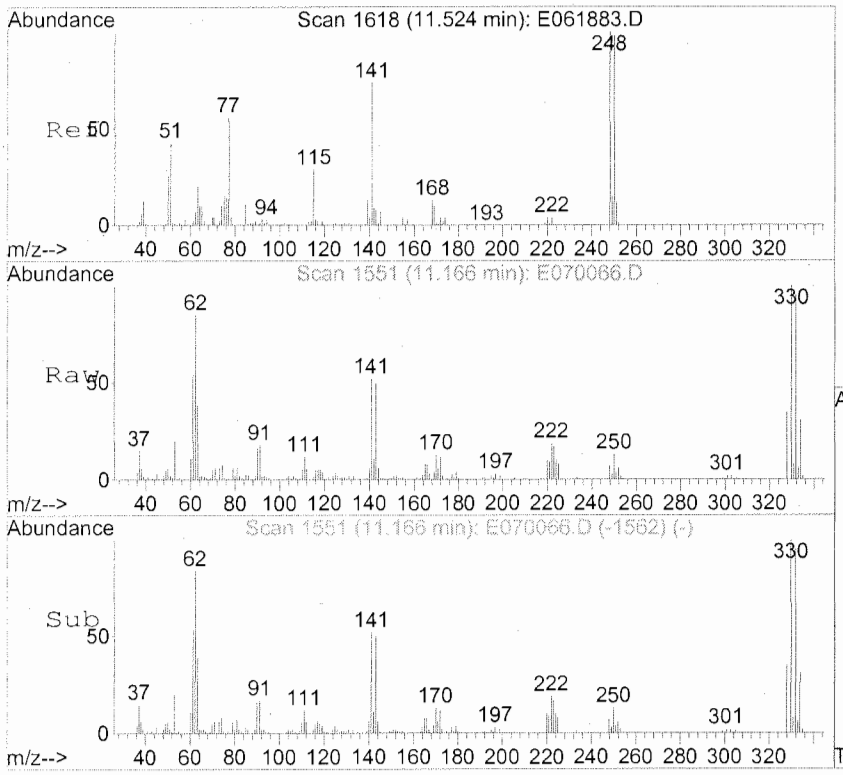


#54
Diethylphthalate
Concen: 0.30 mg/L
RT: 10.71 min Scan# 1465
Delta R.T. -0.10 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:149 Resp: 3230

Ion	Ratio	Lower	Upper
149	100		
177	19.3	19.0	28.6
150	10.3	10.0	15.0

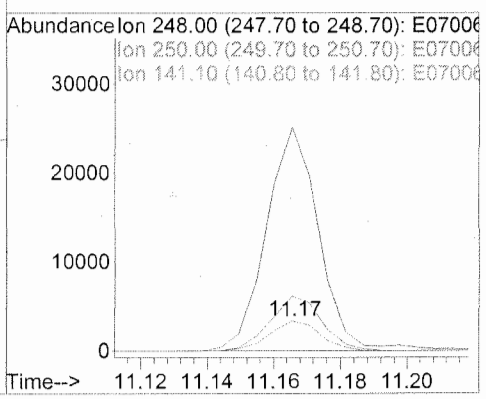


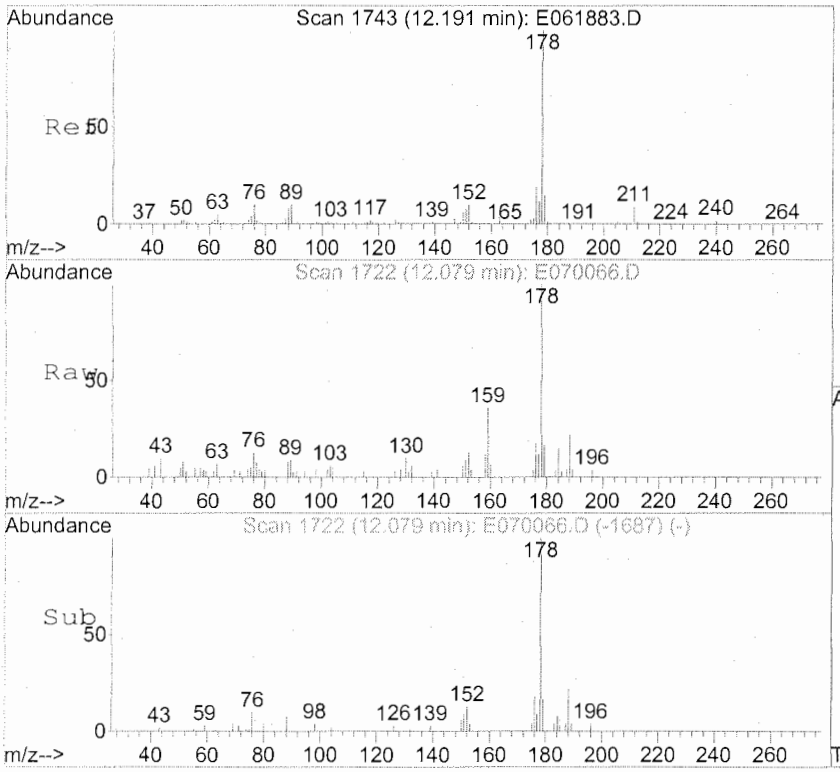


#62
4-Bromophenyl phenyl ether
Concen: 1.27 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:248 Resp: 3517

Ion	Ratio	Lower	Upper
248	100		
250	187.2	79.0	118.4#
141	787.5	64.3	96.5#

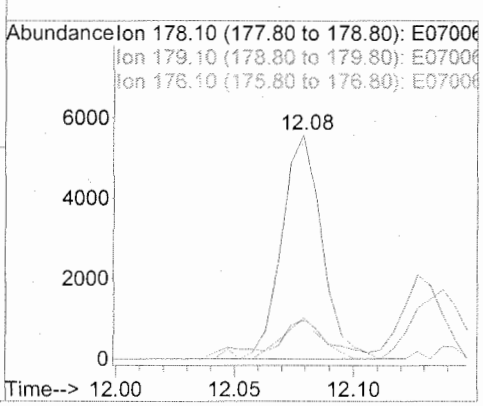


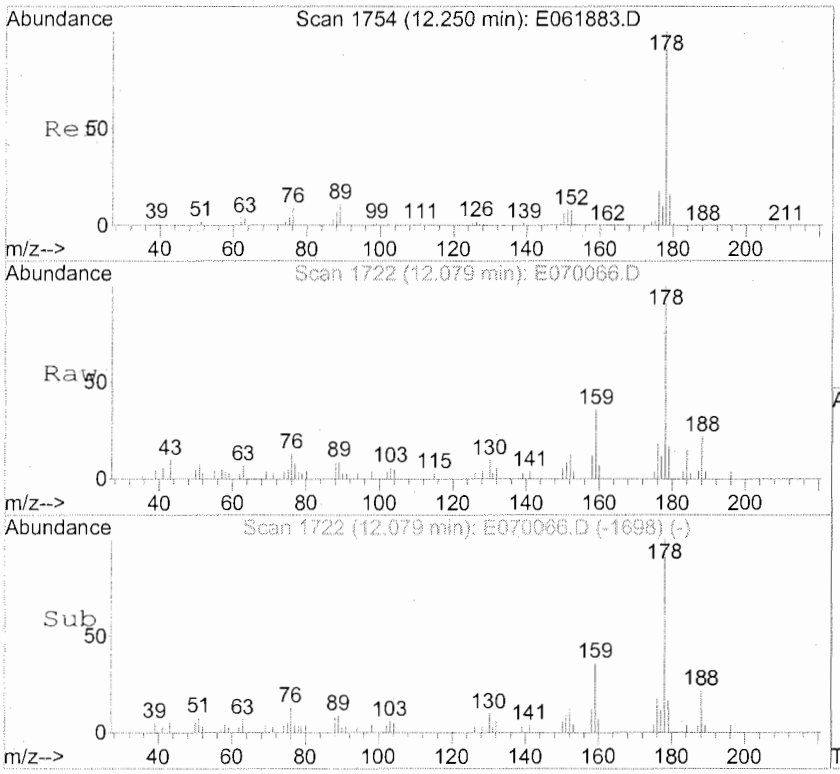


#65
Phenanthrene
Concen: 0.45 mg/L
RT: 12.08 min Scan# 1722
Delta R.T. -0.11 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:178 Resp: 6638

Ion	Ratio	Lower	Upper
178	100		
179	18.6	12.5	18.7
176	17.9	15.0	22.6

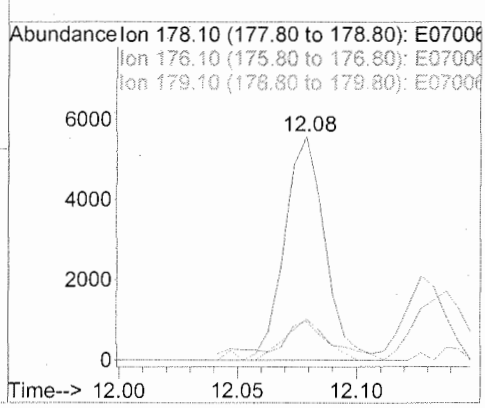


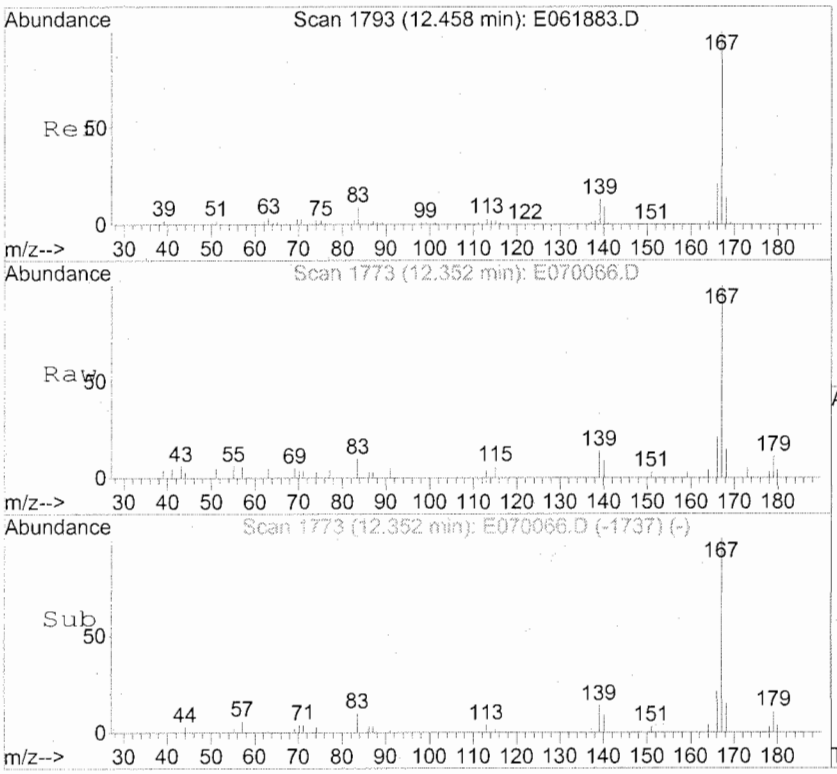


#66
Anthracene
Concen: 0.46 mg/L
RT: 12.08 min Scan# 1722
Delta R.T. -0.17 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:178 Resp: 6638

Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.6	22.0
179	18.6	12.4	18.6

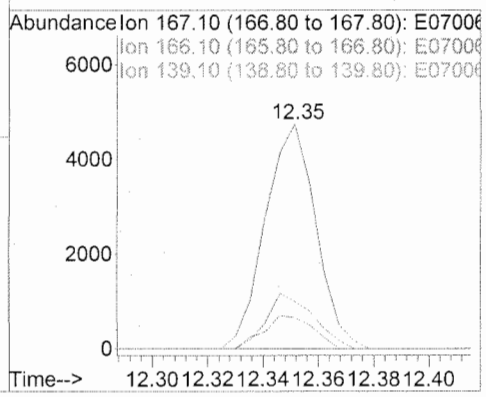


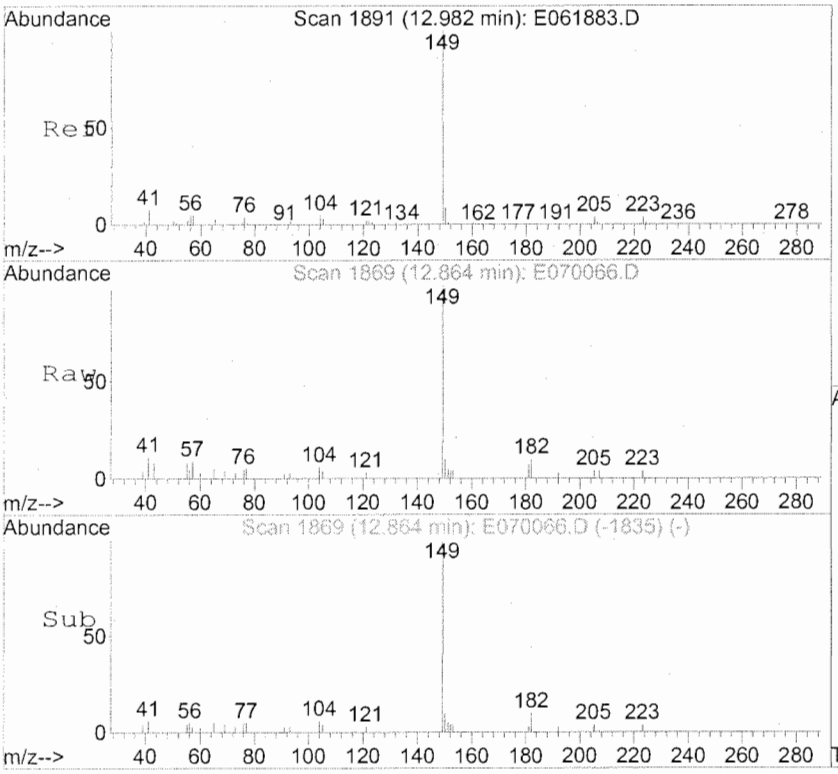


#67
Carbazole
Concen: Below Cal
RT: 12.35 min Scan# 1773
Delta R.T. -0.11 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:167 Resp: 6022

Ion	Ratio	Lower	Upper
167	100		
166	22.9	17.2	25.8
139	14.3	10.6	16.0

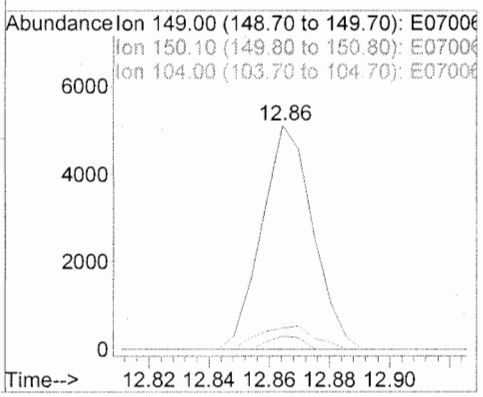


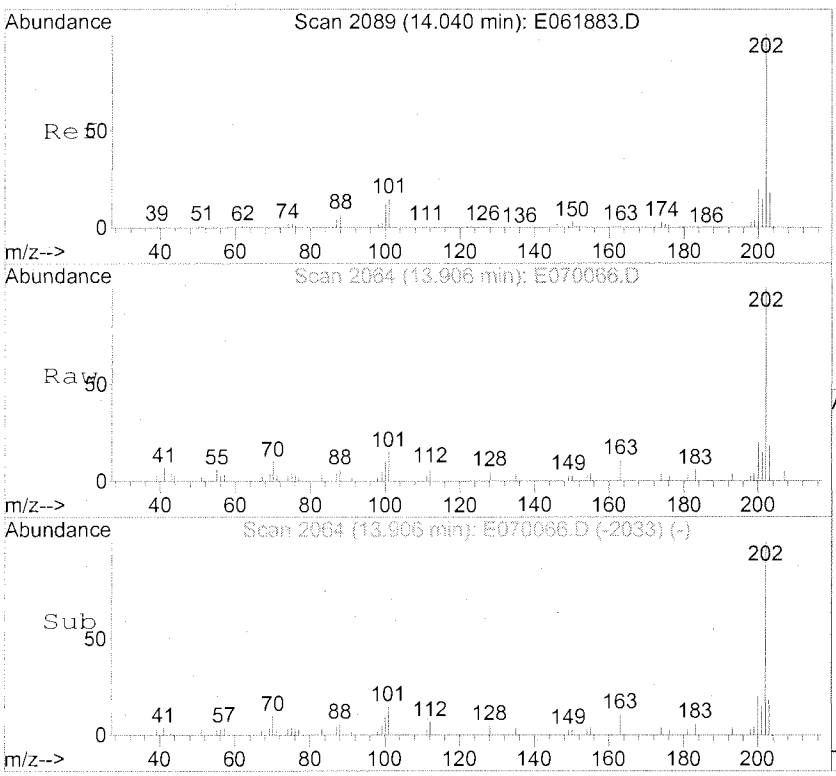


#68
Di-n-butylphthalate
Concen: 0.37 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:149 Resp: 6024

Ion	Ratio	Lower	Upper
149	100		
150	11.1	7.3	10.9#
104	3.9	4.6	7.0#

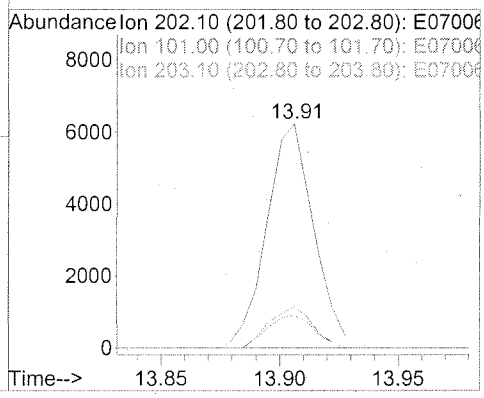


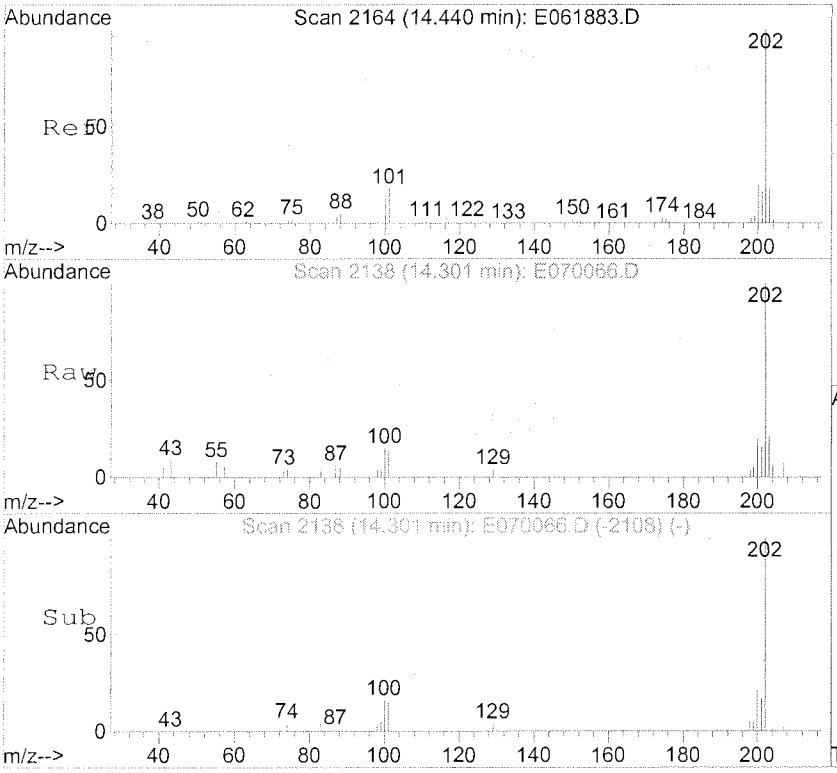


#69
Fluoranthene
Concen: 0.69 mg/L
RT: 13.91 min Scan# 2064
Delta R.T. -0.13 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:202 Resp: 8657

Ion	Ratio	Lower	Upper
202	100		
101	14.3	6.7	10.1#
203	17.0	13.7	20.5

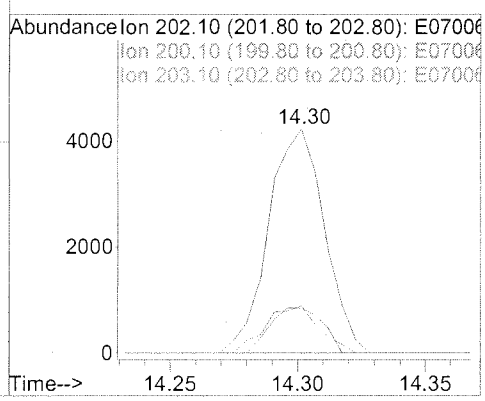


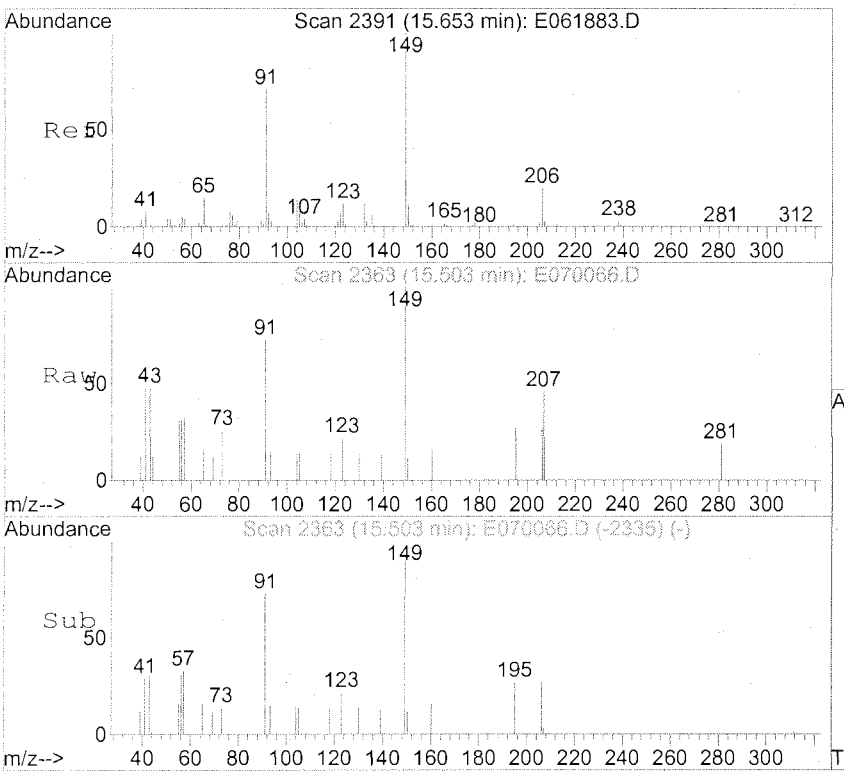


#72
Pyrene
Concen: 0.54 mg/L
RT: 14.30 min Scan# 2138
Delta R.T. -0.14 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:202 Resp: 6427

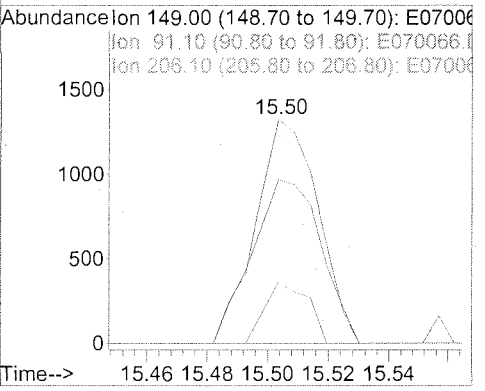
Ion	Ratio	Lower	Upper
202	100		
200	18.9	16.2	24.2
203	20.0	14.4	21.6

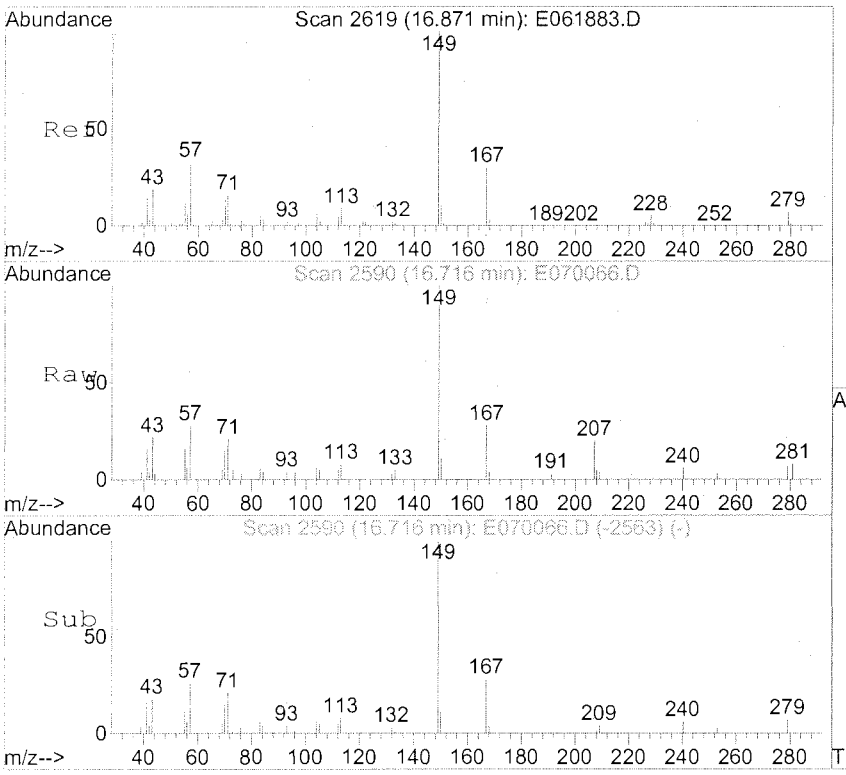




#74
Butylbenzylphthalate
Concen: 0.36 mg/L
RT: 15.50 min Scan# 2363
Delta R.T. -0.15 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

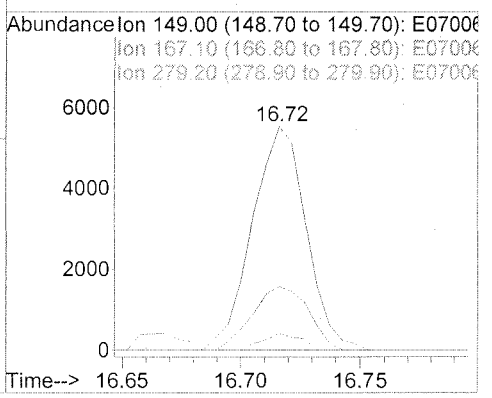
Tgt Ion:149	Resp:	1899	
Ion	Ratio	Lower	Upper
149	100		
91	80.6	59.4	89.0
206	18.8	19.0	28.6#

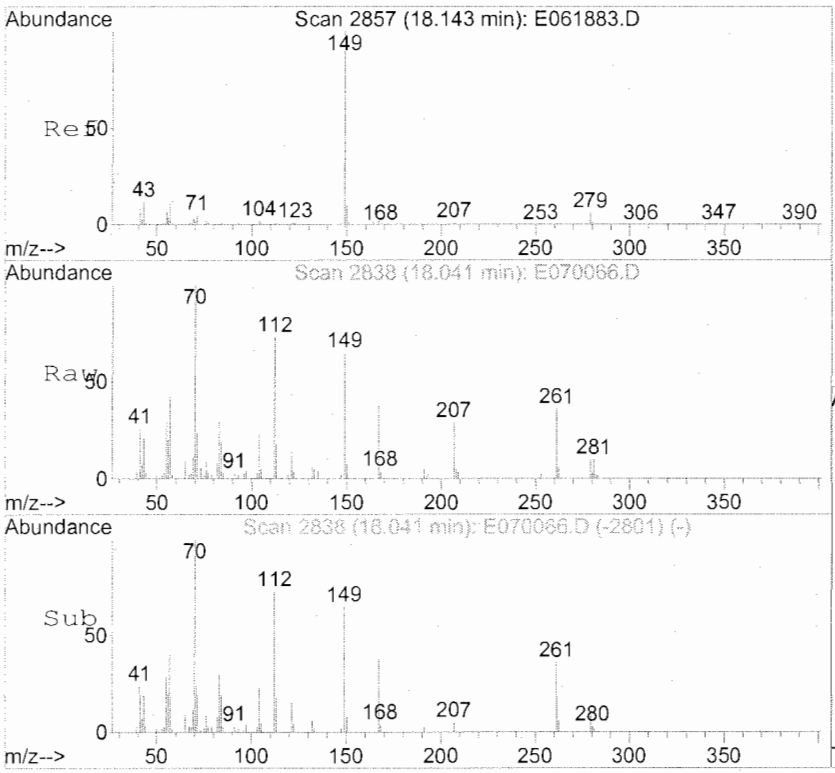




#78
Bis(2-ethylhexyl)phthalate
Concen: 1.27 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:149	Resp:	8727	
Ion	Ratio	Lower	Upper
149	100		
167	29.4	25.0	37.6
279	5.2	6.2	9.2#

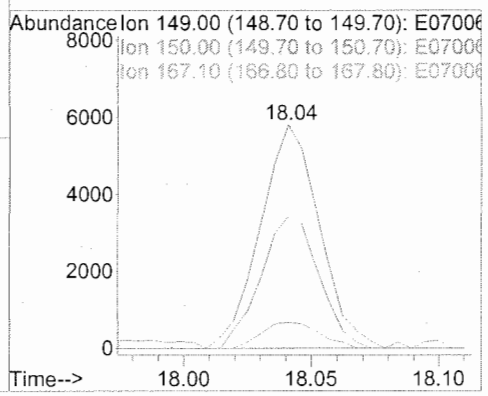


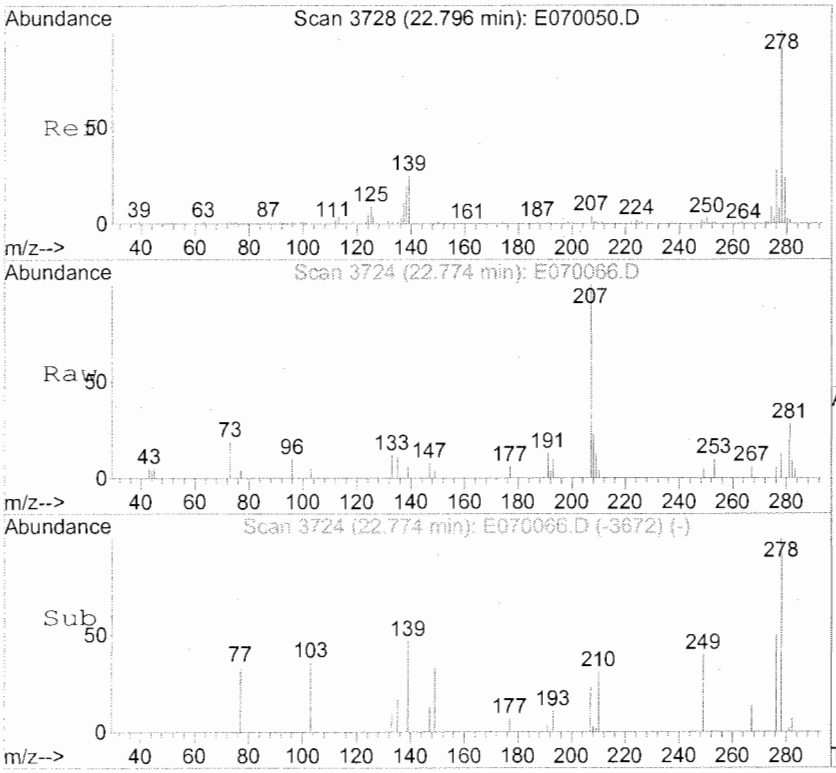


#81
Di-n-octylphthalate
Concen: 0.95 mg/L
RT: 18.04 min Scan# 2838
Delta R.T. -0.10 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:149 Resp: 9361

Ion	Ratio	Lower	Upper
149	100		
150	11.4	7.8	11.8
167	58.0	1.4	2.0#

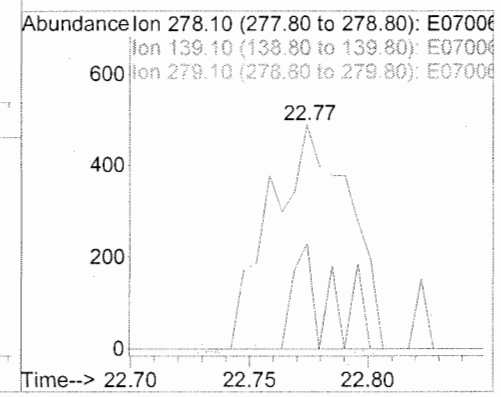


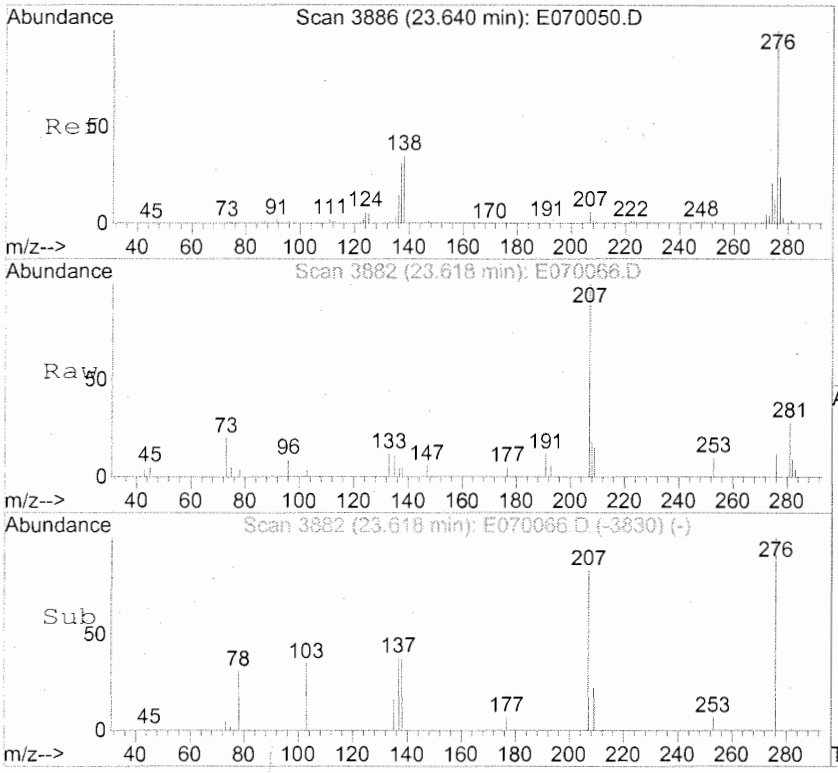


#86
Dibenz(a,h)anthracene
Concen: 0.37 mg/L
RT: 22.77 min Scan# 3724
Delta R.T. -0.02 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:278 Resp: 1118

Ion	Ratio	Lower	Upper
278	100		
139	11.5	18.0	27.0#
279	0.0	19.4	29.0#

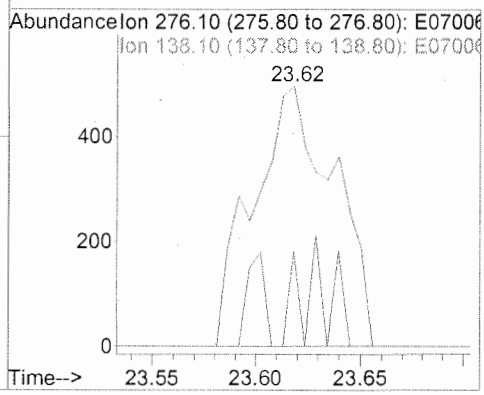




#87
Benzo(g,h,i)perylene
Concen: 0.46 mg/L
RT: 23.62 min Scan# 3882
Delta R.T. -0.02 min
Lab File: E070066.D
Acq: 18 Jan 2007 10:17 pm

Tgt Ion:276 Resp: 1336

Ion	Ratio	Lower	Upper
276	100		
138	4.3	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/12/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76121	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070067.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 22:50	**Quant Date:**	01/19/2007 09:26	**Vial:**	20
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-014			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	153212	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	609145	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	342319	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	521849	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	277084	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	167546	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	199263	40.85	82	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	271012	42.87	86	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	238782	46.39	93	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	479558	44.43	89	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	50648	40.46	81	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	349240	45.10	90	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.97	0.02	0.00	88	1598	0.7100	0.68	J	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0d		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070067.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 22:50	**Quant Date:**	01/19/2007 09:26	**Vial:**	20
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-014			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0d		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol	6.78	-0.02	0.00	107	46047	7.34	7.0		
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	2168	0.6700	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0d		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applieable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070067.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 22:50	**Quant Date:**	01/19/2007 09:26	**Vial:**	20
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-014			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	3956	0.2500	0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	3774	0.5400	0.51	J	
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070067.D Vial: 20
Acq On : 18 Jan 2007 10:50 pm Operator: GJ
Sample : D0700056-014 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:24:07 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	153212	40.00	mg/L	-0.07
22) Naphthalene-d8	7.93	136	609145	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	342319	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	521849	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	277084	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	167546	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	199263	40.85	mg/L	-0.06
Spiked Amount 50.000			Recovery =	81.70%		
7) Phenol-d5	5.81	99	271012	42.87	mg/L	-0.06
Spiked Amount 50.000			Recovery =	85.74%		
23) Nitrobenzene-d5	7.03	82	238782	46.39	mg/L	-0.08
Spiked Amount 50.000			Recovery =	92.78%		
41) 2-Fluorobiphenyl	9.30	172	479558	44.43	mg/L	-0.09
Spiked Amount 50.000			Recovery =	88.86%		
61) 2,4,6-Tribromophenol	11.17	330	50648	40.46	mg/L	-0.10
Spiked Amount 50.000			Recovery =	80.92%		
73) Terphenyl-d14	14.55	244	349240	45.10	mg/L	-0.13
Spiked Amount 50.000			Recovery =	90.20%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	1598	0.71	mg/L	95
19) 4-Methylphenol	6.78	107	46047	7.34	mg/L #	93
28) Benzoic acid	7.54	122	2168	0.67	mg/L	87
67) Carbazole	12.30	167	228	Below Cal	#	59
68) Di-n-butylphthalate	12.86	149	3956	0.25	mg/L #	92
78) Bis(2-ethylhexyl)phthalate	16.72	149	3774	0.54	mg/L #	92

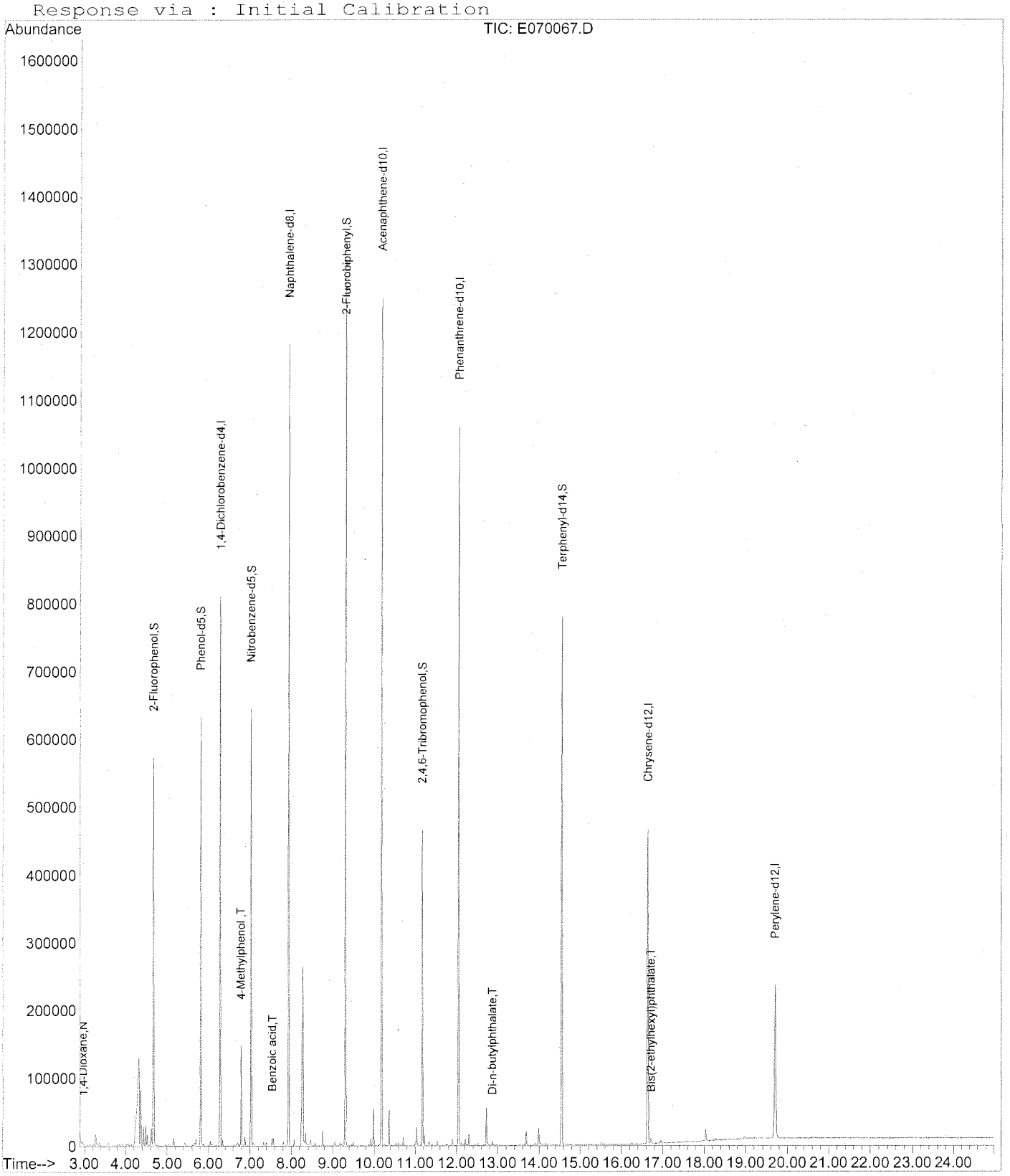
1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070067.D Vial: 20
Acq On : 18 Jan 2007 10:50 pm Operator: GJ
Sample : D0700056-014 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:26 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070067.D Vial: 20
Acq On : 18 Jan 2007 10:50 pm Operator: GJ
Sample : D0700056-014 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:24:07 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

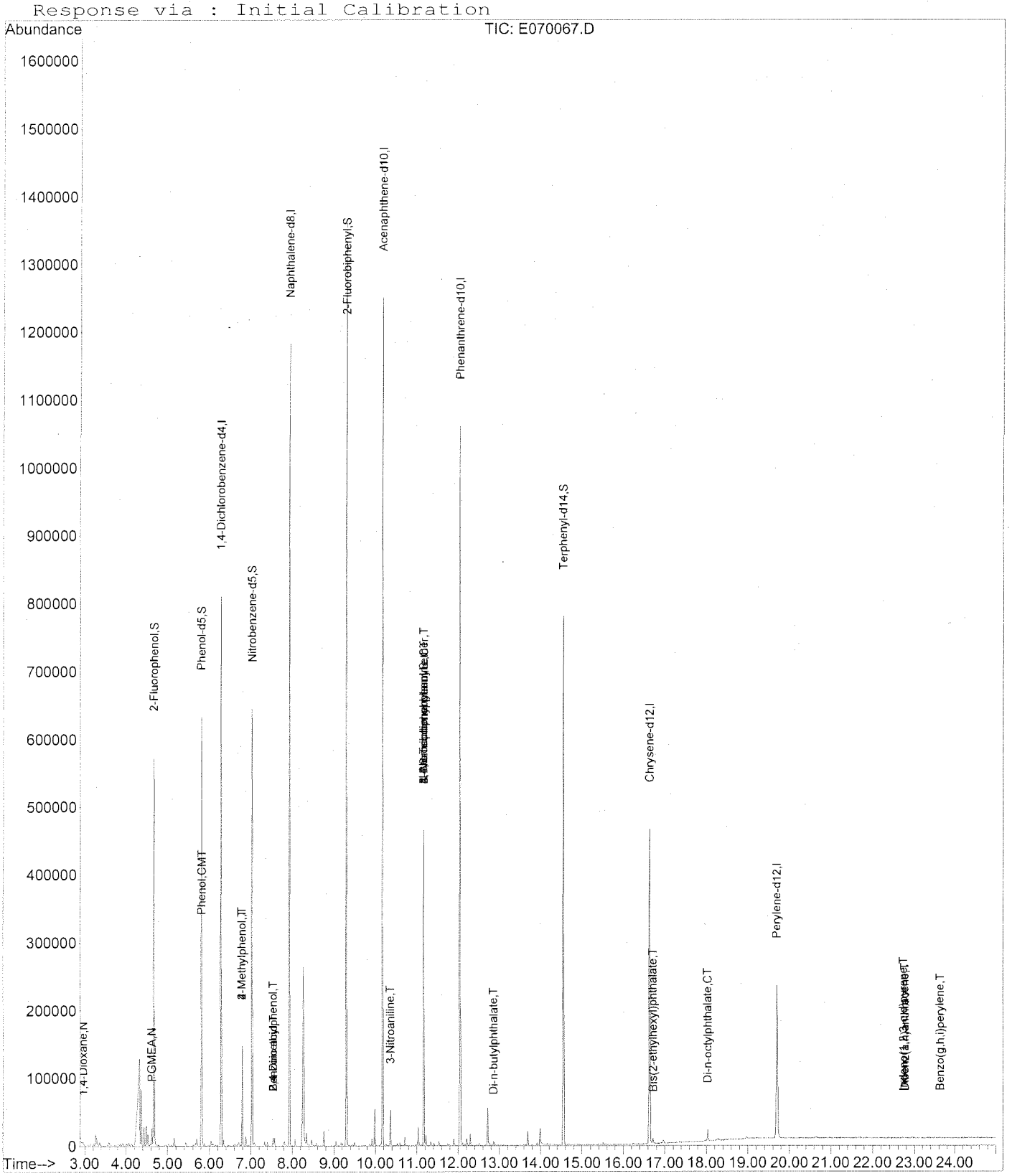
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	153212	40.00	mg/L	-0.07
22) Naphthalene-d8	7.93	136	609145	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	342319	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	521849	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	277084	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	167546	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	199263	40.85	mg/L	-0.06
Spiked Amount 50.000			Recovery =	81.70%		
7) Phenol-d5	5.81	99	271012	42.87	mg/L	-0.06
Spiked Amount 50.000			Recovery =	85.74%		
23) Nitrobenzene-d5	7.03	82	238782	46.39	mg/L	-0.08
Spiked Amount 50.000			Recovery =	92.78%		
41) 2-Fluorobiphenyl	9.30	172	479558	44.43	mg/L	-0.09
Spiked Amount 50.000			Recovery =	88.86%		
61) 2,4,6-Tribromophenol	11.17	330	50648	40.46	mg/L	-0.10
Spiked Amount 50.000			Recovery =	80.92%		
73) Terphenyl-d14	14.55	244	349240	45.10	mg/L	-0.13
Spiked Amount 50.000			Recovery =	90.20%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	1598	0.71	mg/L	95
5) PGMEA	4.62	43	2539	0.24	mg/L #	59
8) Phenol	5.83	94	3140	0.47	mg/L #	1
17) 2-Methylphenol	6.78	108	38130	7.70	mg/L #	65
19) 4-Methylphenol	6.78	107	46047	7.34	mg/L #	93
27) 2,4-Dimethylphenol	7.54	122	2168	0.44	mg/L #	1
28) Benzoic acid	7.54	122	2168	0.67	mg/L	87
47) 3-Nitroaniline	10.36	138	228	1.88	mg/L #	1
59) N-Nitrosodiphenylamine	11.17	169	2345	0.31	mg/L #	40
62) 4-Bromophenyl phenyl ether	11.17	248	3201	1.17	mg/L #	1
67) Carbazole	12.30	167	228	Below Cal	#	59
68) Di-n-butylphthalate	12.86	149	3956	0.25	mg/L #	92
78) Bis(2-ethylhexyl)phthalate	16.72	149	3774	0.54	mg/L #	92
81) Di-n-octylphthalate	18.04	149	2655	0.25	mg/L #	78
85) Indeno(1,2,3-c,d)pyrene	22.73	276	898	0.23	mg/L #	53
86) Dibenz(a,h)anthracene	22.77	278	1107	0.33	mg/L #	61
87) Benzo(g,h,i)perylene	23.63	276	1069	0.33	mg/L #	42

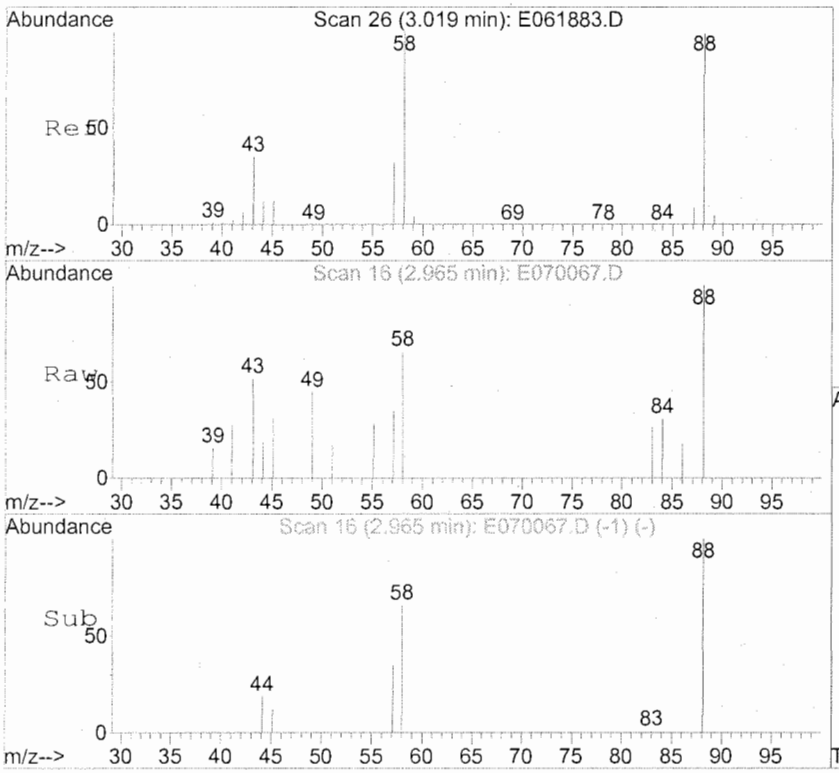
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070067.D Vial: 20
Acq On : 18 Jan 2007 10:50 pm Operator: GJ
Sample : D0700056-014 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:24 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

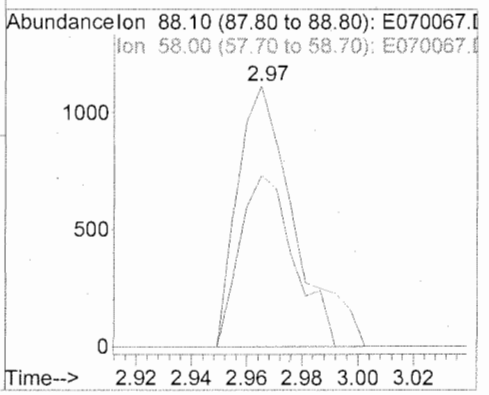


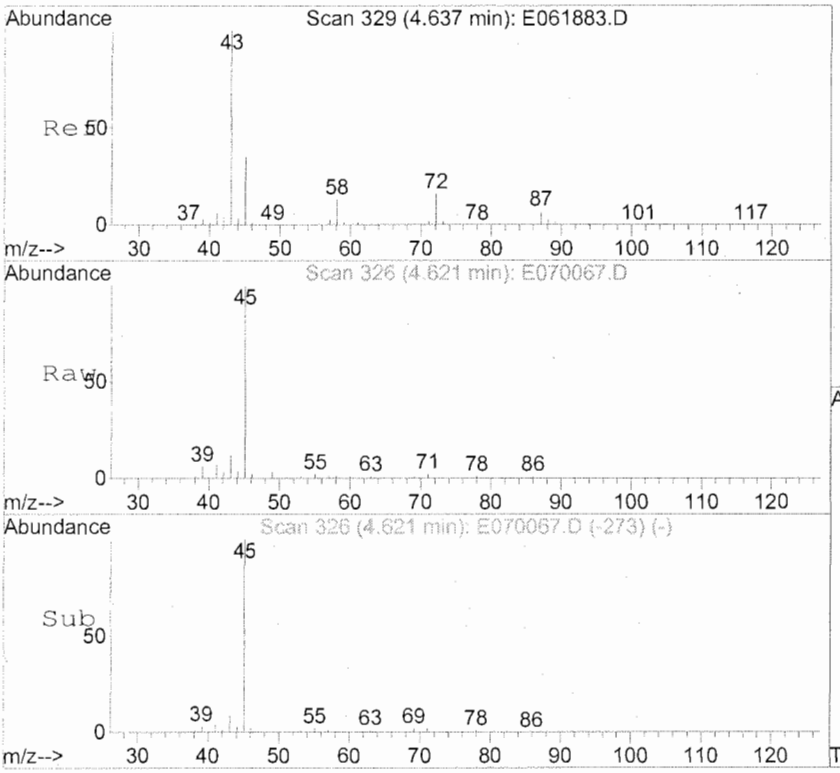


#2
1,4-Dioxane
Concen: 0.71 mg/L
RT: 2.97 min Scan# 16
Delta R.T. -0.05 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion: 88 Resp: 1598

Ion	Ratio	Lower	Upper
88	100		
58	62.8	53.5	80.3

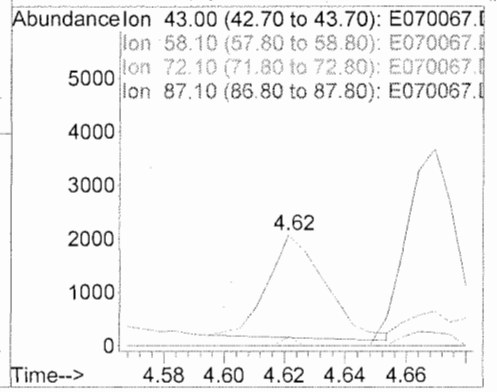


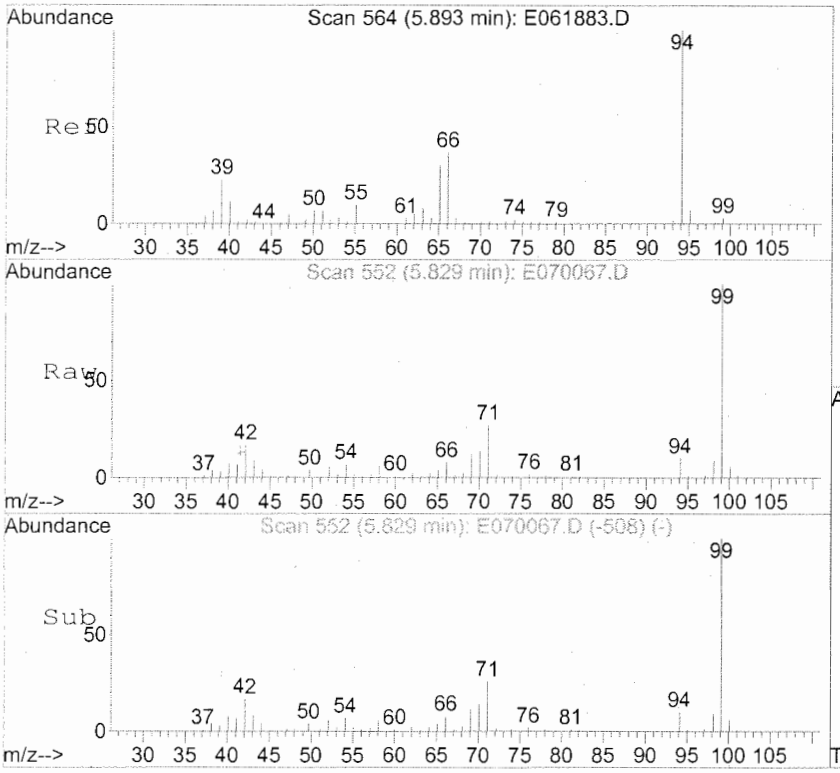


#5
PGMEA
Concen: 0.24 mg/L
RT: 4.62 min Scan# 326
Delta R.T. -0.02 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion: 43 Resp: 2539

Ion	Ratio	Lower	Upper
43	100		
58	0.0	9.7	14.5#
72	0.0	20.4	30.6#
87	0.0	7.6	11.4#

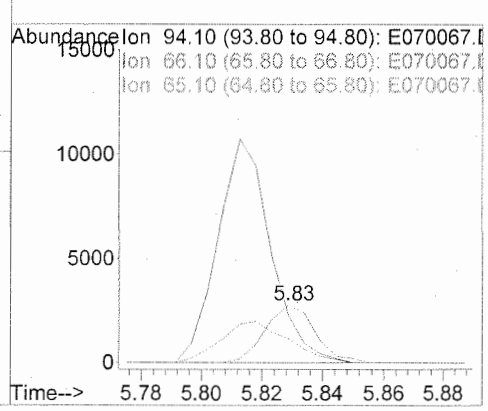


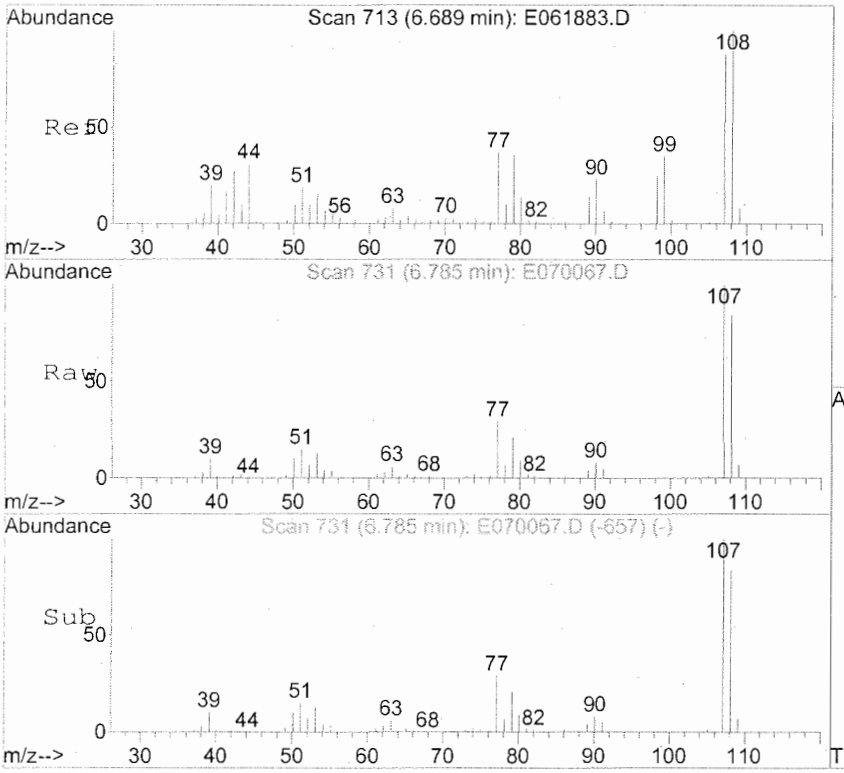


#8
Phenol
Concen: 0.47 mg/L
RT: 5.83 min Scan# 552
Delta R.T. -0.06 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion: 94 Resp: 3140

Ion	Ratio	Lower	Upper
94	100		
66	416.9	38.3	57.5#
65	97.2	27.1	40.7#

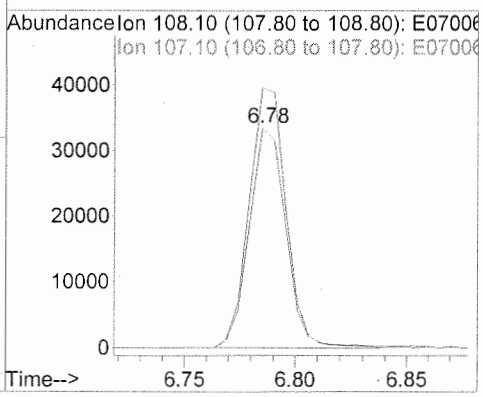


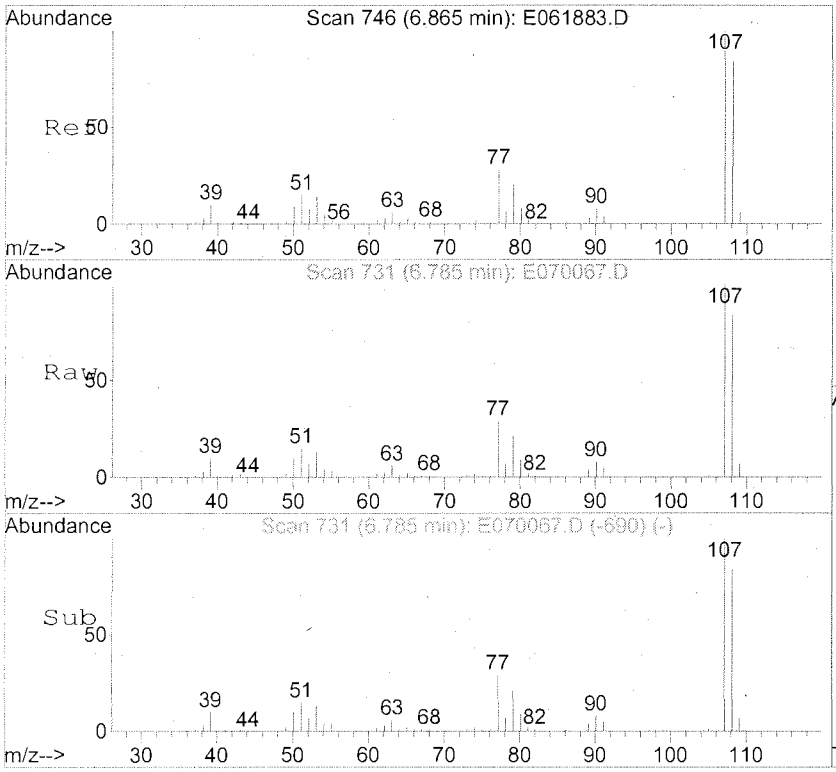


#17
2-Methylphenol
Concen: 7.70 mg/L
RT: 6.78 min Scan# 731
Delta R.T. 0.10 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:108 Resp: 38130

Ion	Ratio	Lower	Upper
108	100		
107	120.8	70.4	105.6#

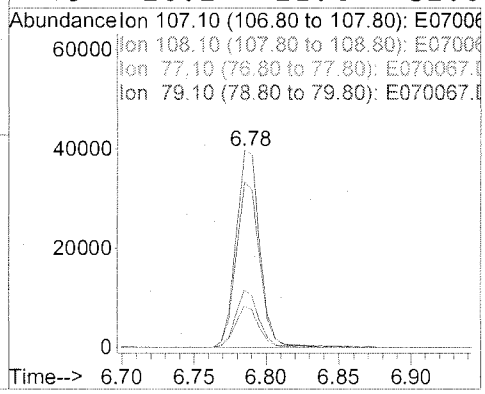


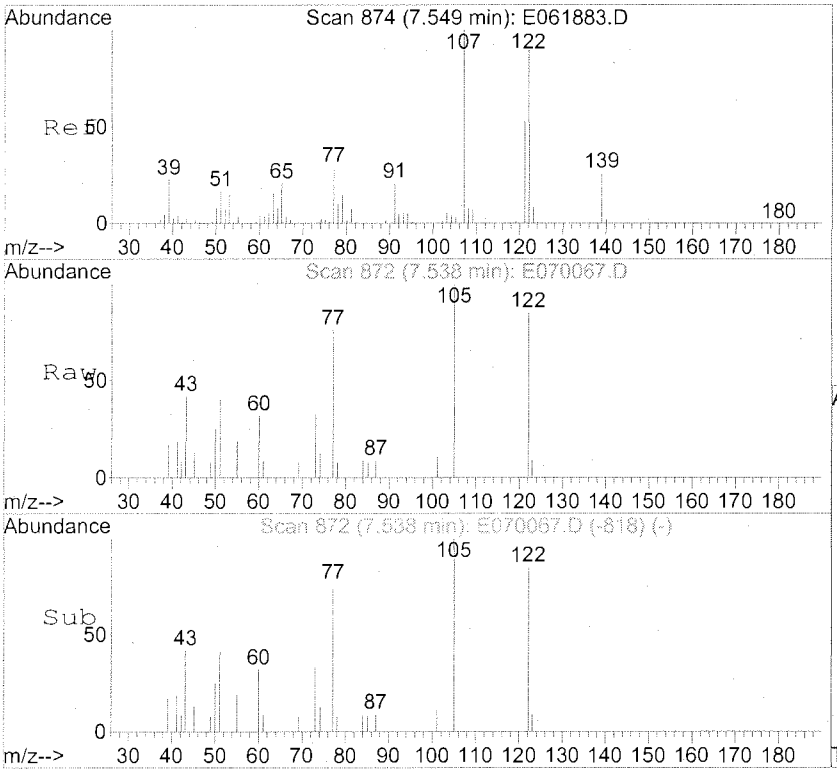


#19
4-Methylphenol
Concen: 7.34 mg/L
RT: 6.78 min Scan# 731
Delta R.T. -0.08 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:107 Resp: 46047

Ion	Ratio	Lower	Upper
107	100		
108	82.8	65.0	97.4
77	28.4	29.8	44.8#
79	20.2	21.4	32.0#

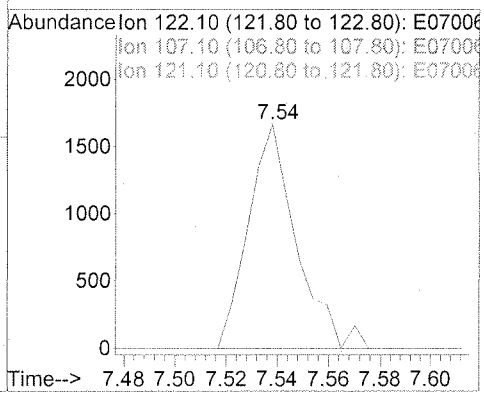


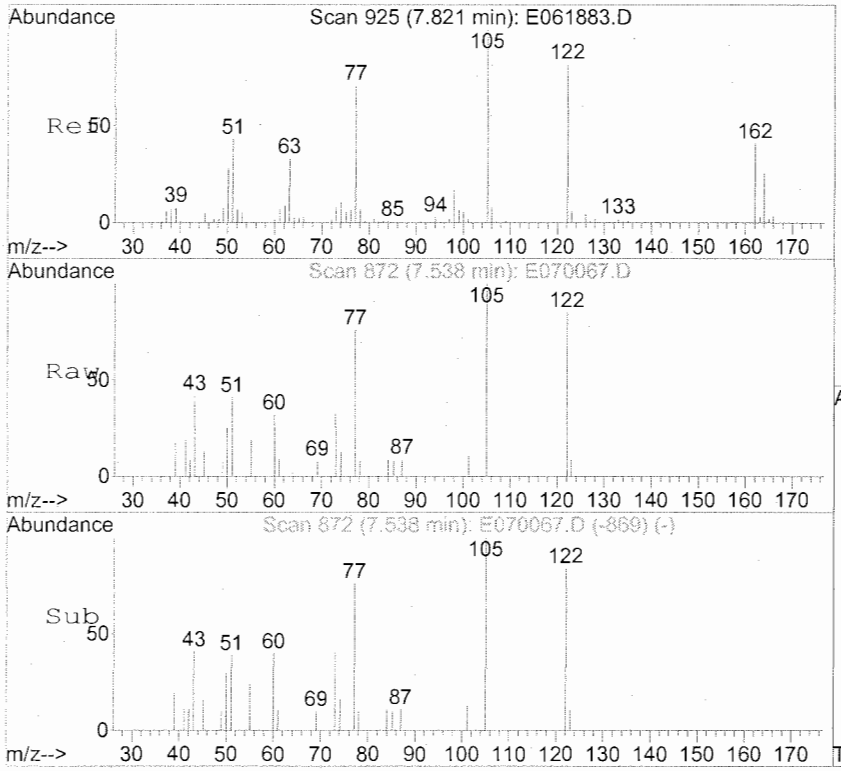


#27
2,4-Dimethylphenol
Concen: 0.44 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:122 Resp: 2168

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

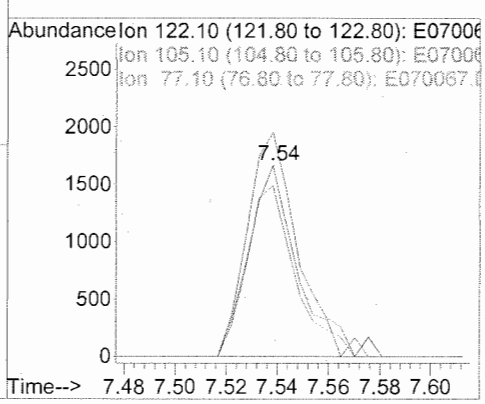


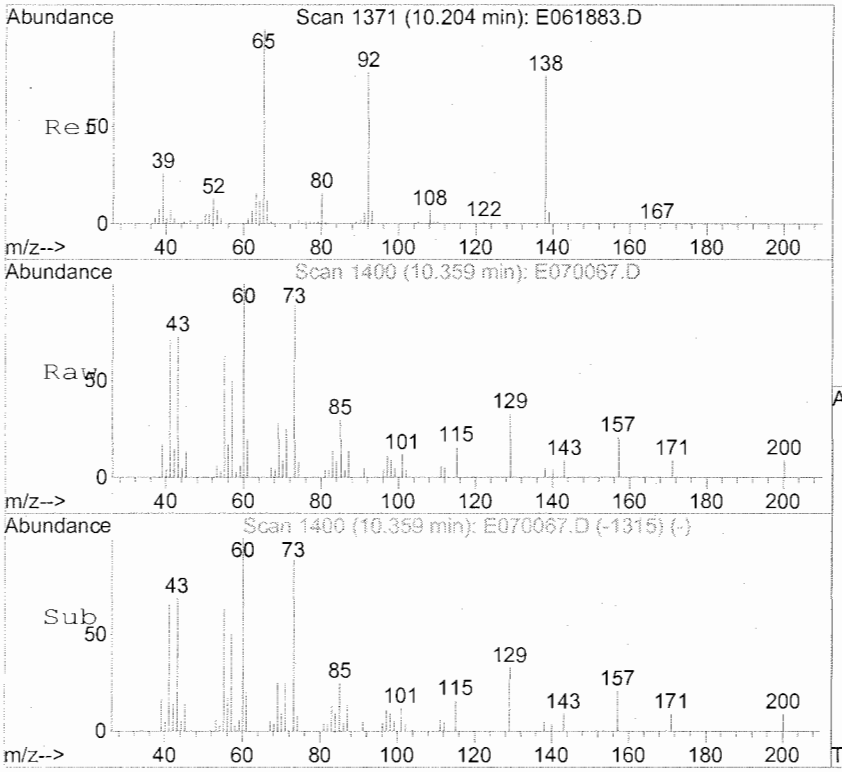


#28
Benzoic acid
Concen: 0.67 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.28 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:122 Resp: 2168

Ion	Ratio	Lower	Upper
122	100		
105	127.0	110.2	165.2
77	93.2	89.8	134.8

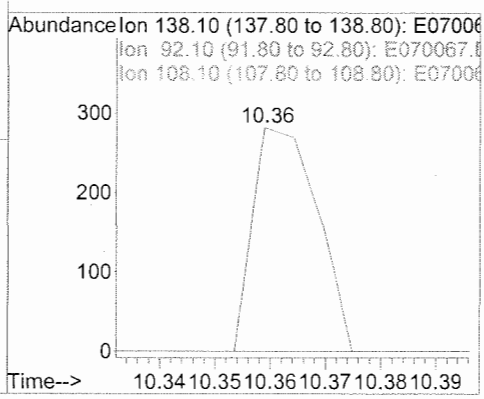


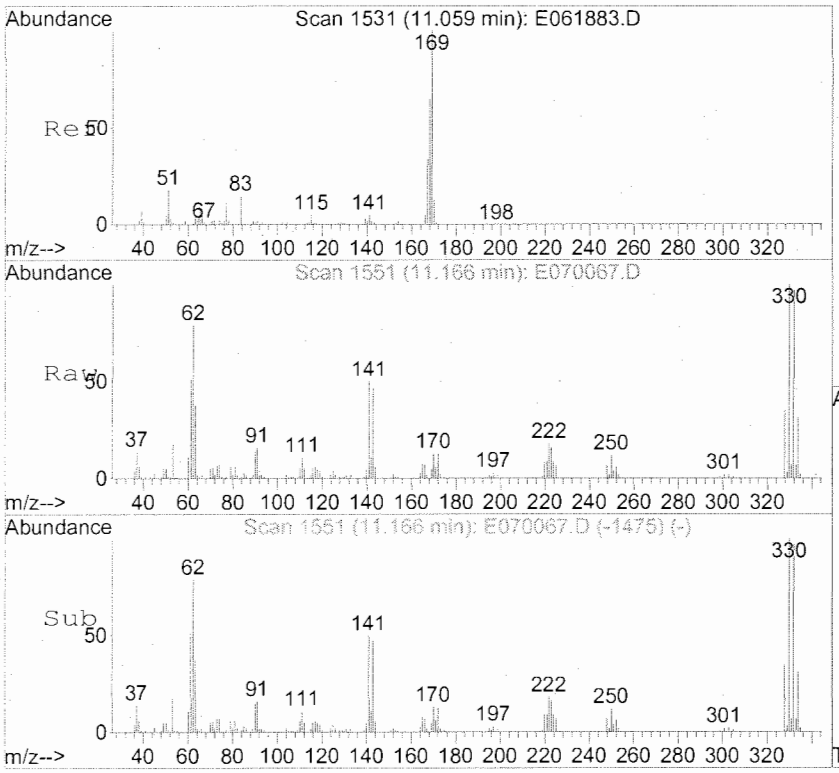


#47
3-Nitroaniline
Concen: 1.88 mg/L
RT: 10.36 min Scan# 1400
Delta R.T. 0.16 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:138 Resp: 228

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

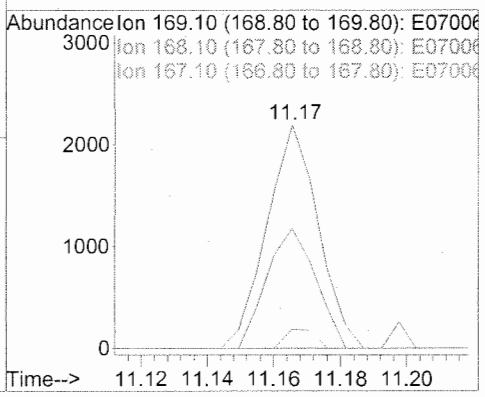


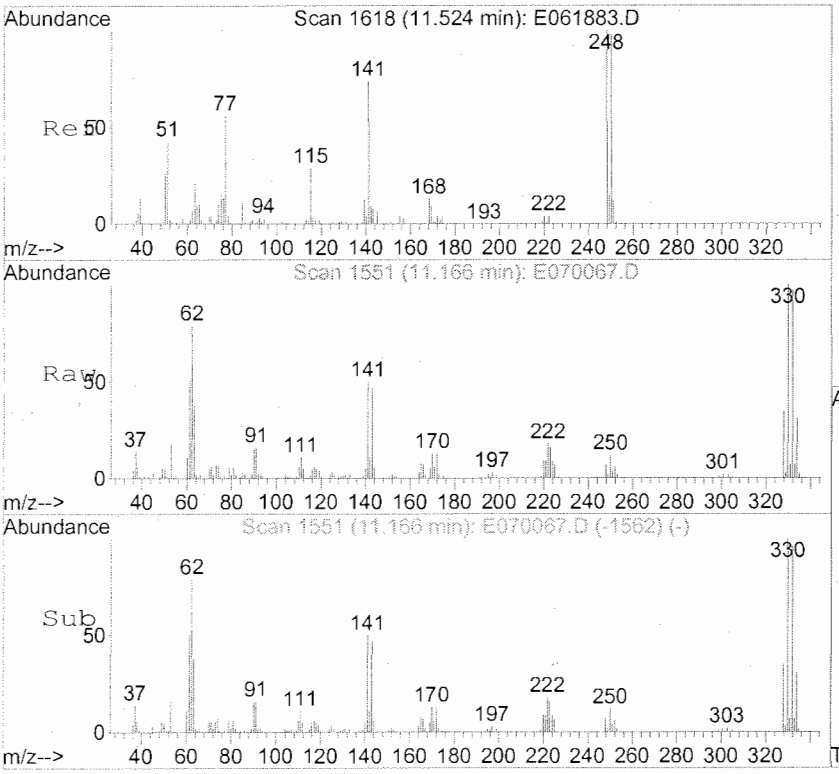


#59
N-Nitrosodiphenylamine
Concen: 0.31 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:169 Resp: 2345

Ion	Ratio	Lower	Upper
169	100		
168	4.9	50.8	76.2#
167	51.0	27.0	40.4#

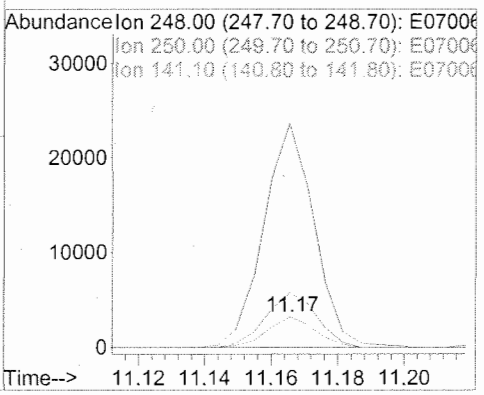


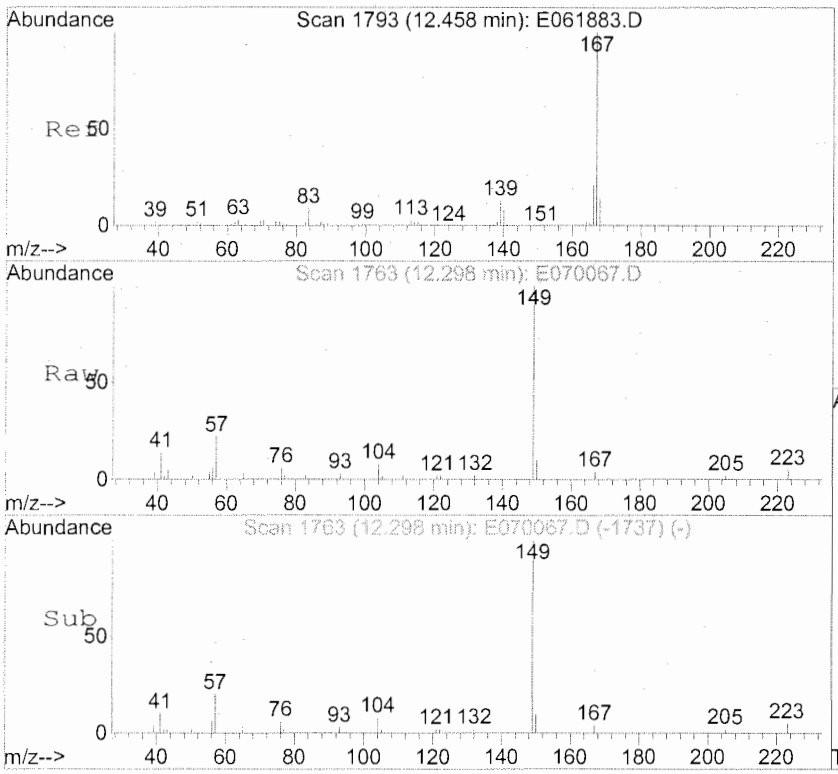


#62
4-Bromophenyl phenyl ether
Concen: 1.17 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:248 Resp: 3201

Ion	Ratio	Lower	Upper
248	100		
250	191.0	79.0	118.4#
141	778.0	64.3	96.5#

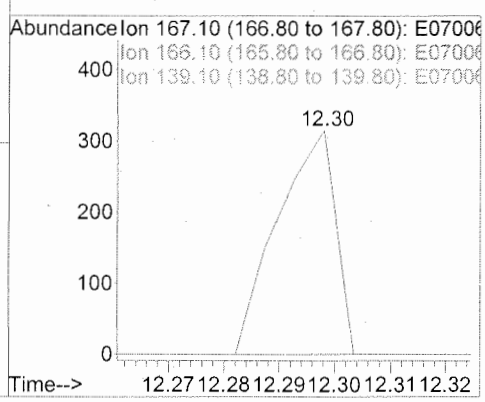


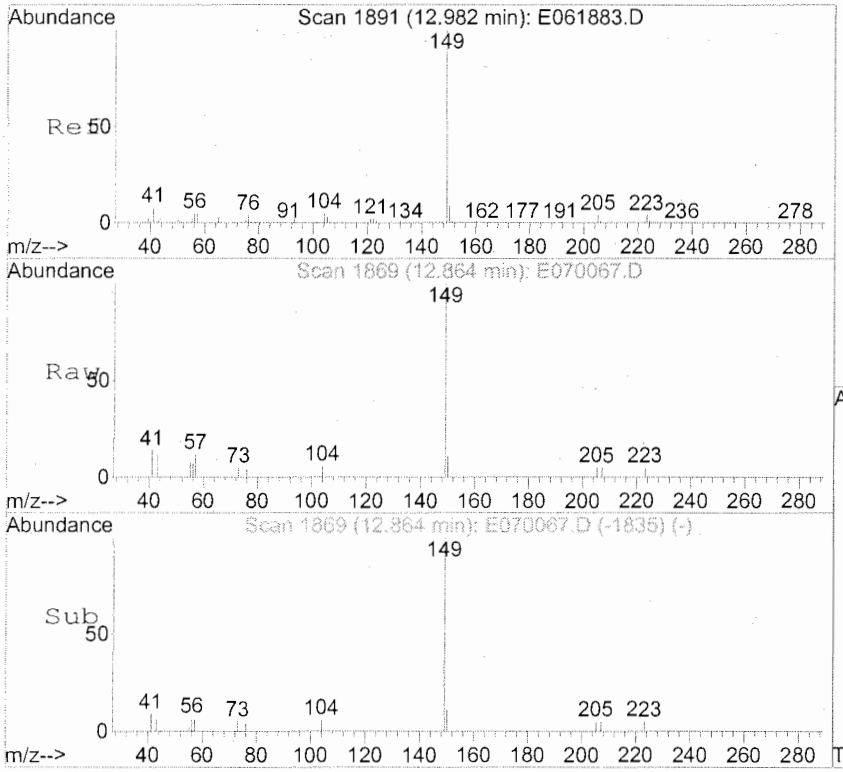


#67
Carbazole
Concen: Below Cal
RT: 12.30 min Scan# 1763
Delta R.T. -0.16 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:167 Resp: 228

Ion	Ratio	Lower	Upper
167	100		
166	0.0	17.2	25.8#
139	0.0	10.6	16.0#

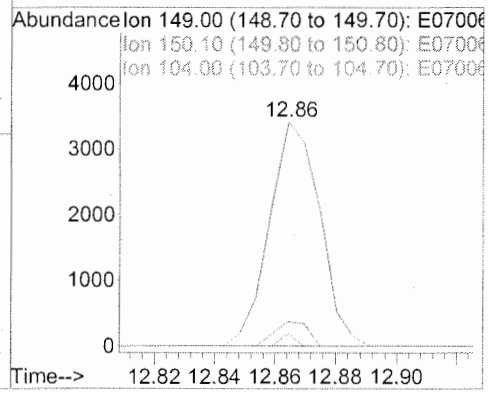


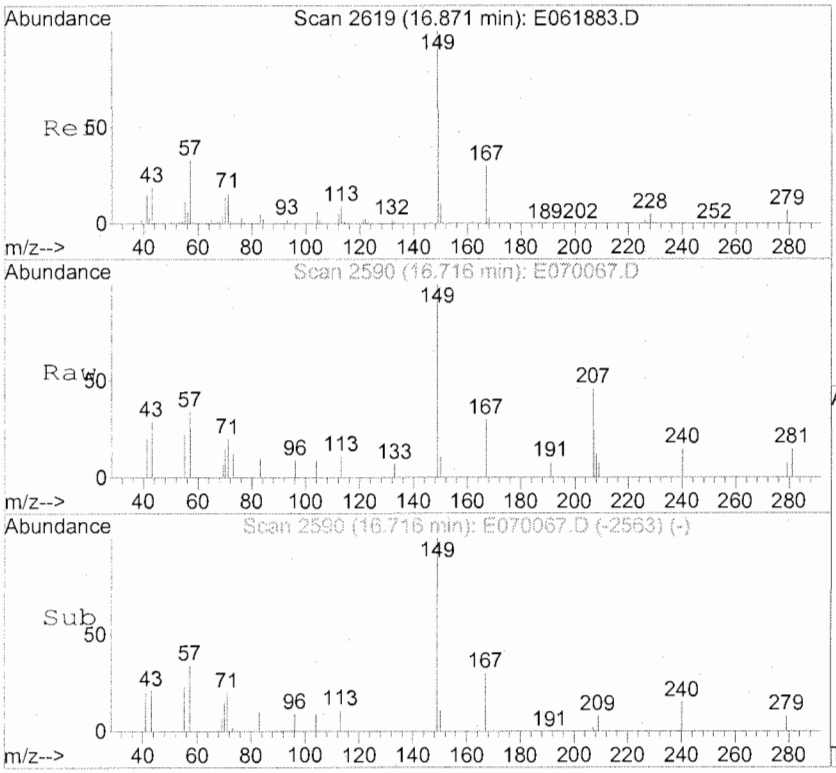


#68
Di-n-butylphthalate
Concen: 0.25 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:149 Resp: 3956

Ion	Ratio	Lower	Upper
149	100		
150	7.3	7.3	10.9
104	1.5	4.6	7.0#

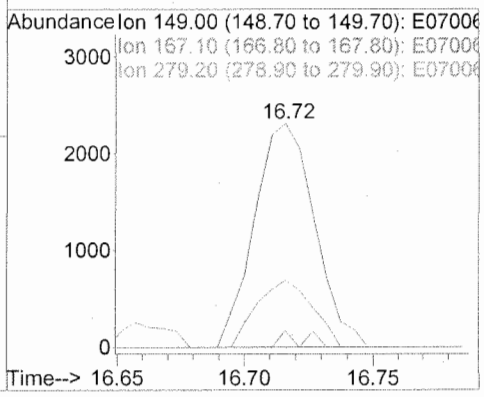


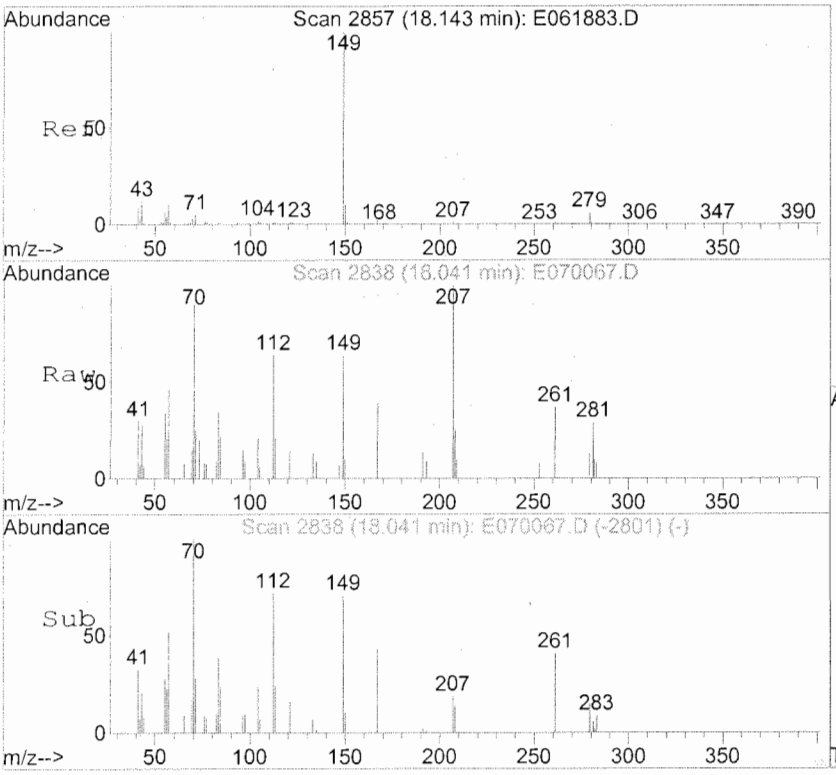


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.54 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.16 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:149 Resp: 3774

Ion	Ratio	Lower	Upper
149	100		
167	27.5	25.0	37.6
279	2.9	6.2	9.2#

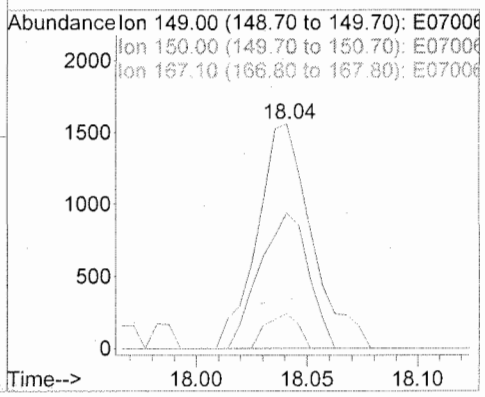


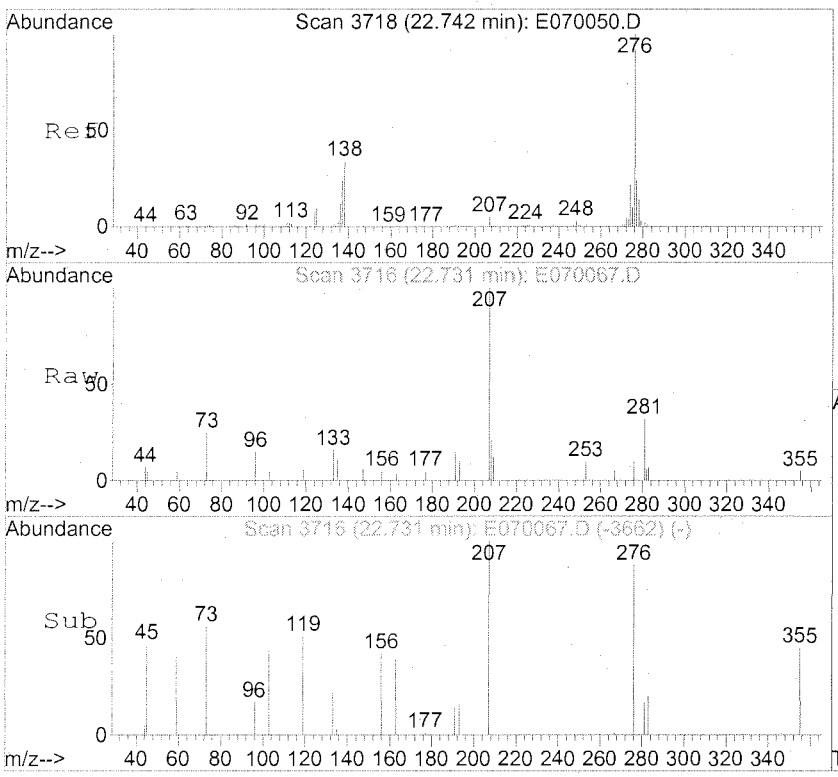


#81
Di-n-octylphthalate
Concen: 0.25 mg/L
RT: 18.04 min Scan# 2838
Delta R.T. -0.10 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:149 Resp: 2655

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.8	11.8
167	54.2	1.4	2.0#

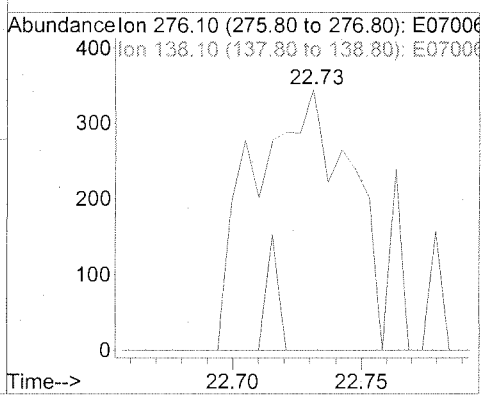


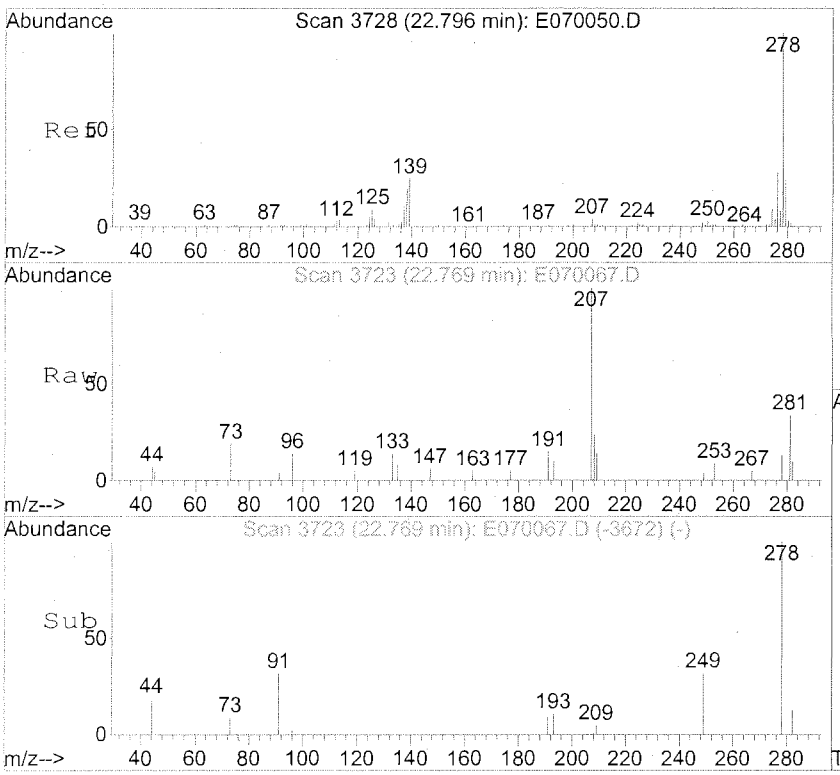


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.23 mg/L
RT: 22.73 min Scan# 3716
Delta R.T. -0.01 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:276 Resp: 898

Ion	Ratio	Lower	Upper
276	100		
138	5.5	25.4	38.0#

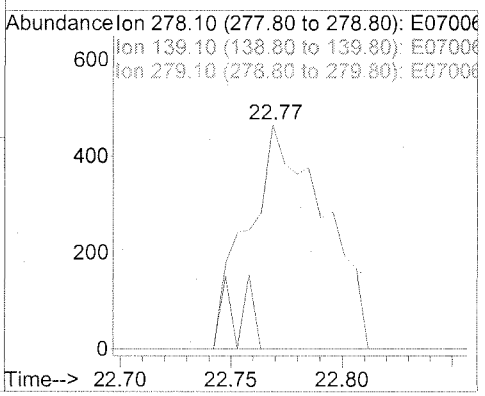


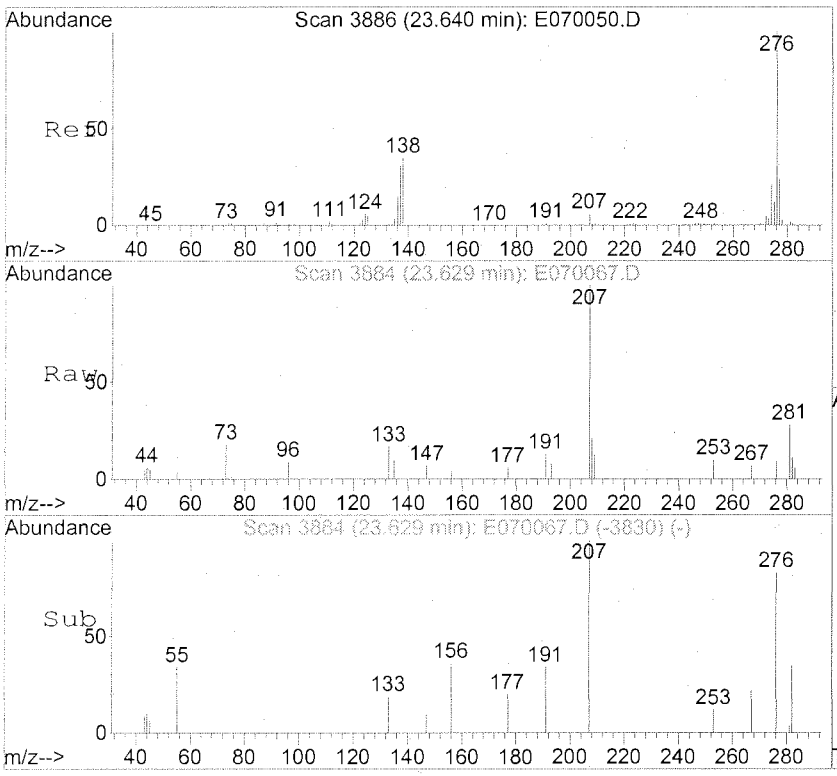


#86
Dibenz(a,h)anthracene
Concen: 0.33 mg/L
RT: 22.77 min Scan# 3723
Delta R.T. -0.03 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:278 Resp: 1107

Ion	Ratio	Lower	Upper
278	100		
139	8.9	18.0	27.0#
279	0.0	19.4	29.0#

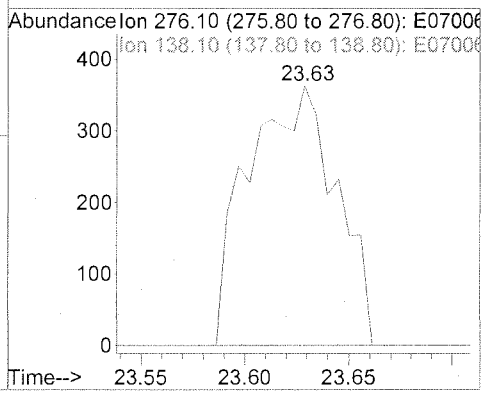




#87
Benzo(g,h,i)perylene
Concen: 0.33 mg/L
RT: 23.63 min Scan# 3884
Delta R.T. -0.01 min
Lab File: E070067.D
Acq: 18 Jan 2007 10:50 pm

Tgt Ion:276 Resp: 1069

Ion	Ratio	Lower	Upper
276	100		
138	0.0	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/12/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76122	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070068.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 23:22	**Quant Date:**	01/19/2007 09:29	**Vial:**	21
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-015			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	164949	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	650016	40.00	OK
3	Acenaphthene-d10	10.17	-0.01?	164	363195	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	549686	40.00	OK
5	Chrysene-d12	16.63	-0.02?	240	281106	40.00	OK
6	Perylene-d12	19.69	-0.02?	264	182002	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	222083	42.29	85	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	293177	43.07	86	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	261681	47.65	95	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	536798	46.87	94	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	55055	41.76	84	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	389015	49.51	99	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.97	0.02	0.00	88	1030	0.4300	0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0d		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070068.D		**Instrument:** MSE
Acqu Date:	01/18/2007 23:22	**Quant Date:** 01/19/2007 09:29	**Vial:** 21
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0700056-015		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	2423	0.7000	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0**d**		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.71	-0.01	0.00	149	2289	0.2000	0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070068.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 23:22	**Quant Date:**	01/19/2007 09:29	**Vial:**	21
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-015			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	7726	0.4600	0.44	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate	15.50	-0.01	0.00	149	2663	0.4900	0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.71	-0.01	0.00	149	6851	0.9700	0.92	J	
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070068.D Vial: 21
Acq On : 18 Jan 2007 11:22 pm Operator: GJ
Sample : D0700056-015 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:26:49 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	164949	40.00	mg/L		-0.08
22) Naphthalene-d8	7.93	136	650016	40.00	mg/L		-0.09
37) Acenaphthene-d10	10.17	164	363195	40.00	mg/L		-0.09
57) Phenanthrene-d10	12.05	188	549686	40.00	mg/L		-0.11
70) Chrysene-d12	16.63	240	281106	40.00	mg/L		-0.16
80) Perylene-d12	19.69	264	182002	40.00	mg/L		-0.22
System Monitoring Compounds							
6) 2-Fluorophenol	4.67	112	222083	42.29	mg/L		-0.06
Spiked Amount 50.000			Recovery =	84.58%			
7) Phenol-d5	5.81	99	293177	43.07	mg/L		-0.06
Spiked Amount 50.000			Recovery =	86.14%			
23) Nitrobenzene-d5	7.03	82	261681	47.65	mg/L		-0.08
Spiked Amount 50.000			Recovery =	95.30%			
41) 2-Fluorobiphenyl	9.30	172	536798	46.87	mg/L		-0.09
Spiked Amount 50.000			Recovery =	93.74%			
61) 2,4,6-Tribromophenol	11.17	330	55055	41.76	mg/L		-0.10
Spiked Amount 50.000			Recovery =	83.52%			
73) Terphenyl-d14	14.55	244	389015	49.51	mg/L		-0.14
Spiked Amount 50.000			Recovery =	99.02%			
Target Compounds							Qvalue
2) 1,4-Dioxane	2.97	88	1030	0.43	mg/L		90
28) Benzoic acid	7.54	122	2423	0.70	mg/L		91
54) Diethylphthalate	10.71	149	2289	0.20	mg/L		95
67) Carbazole	12.29	167	57	Below Cal		#	59
68) Di-n-butylphthalate	12.86	149	7726	0.46	mg/L	#	97
74) Butylbenzylphthalate	15.50	149	2663	0.49	mg/L		96
78) Bis(2-ethylhexyl)phthalate	16.71	149	6851	0.97	mg/L	#	98

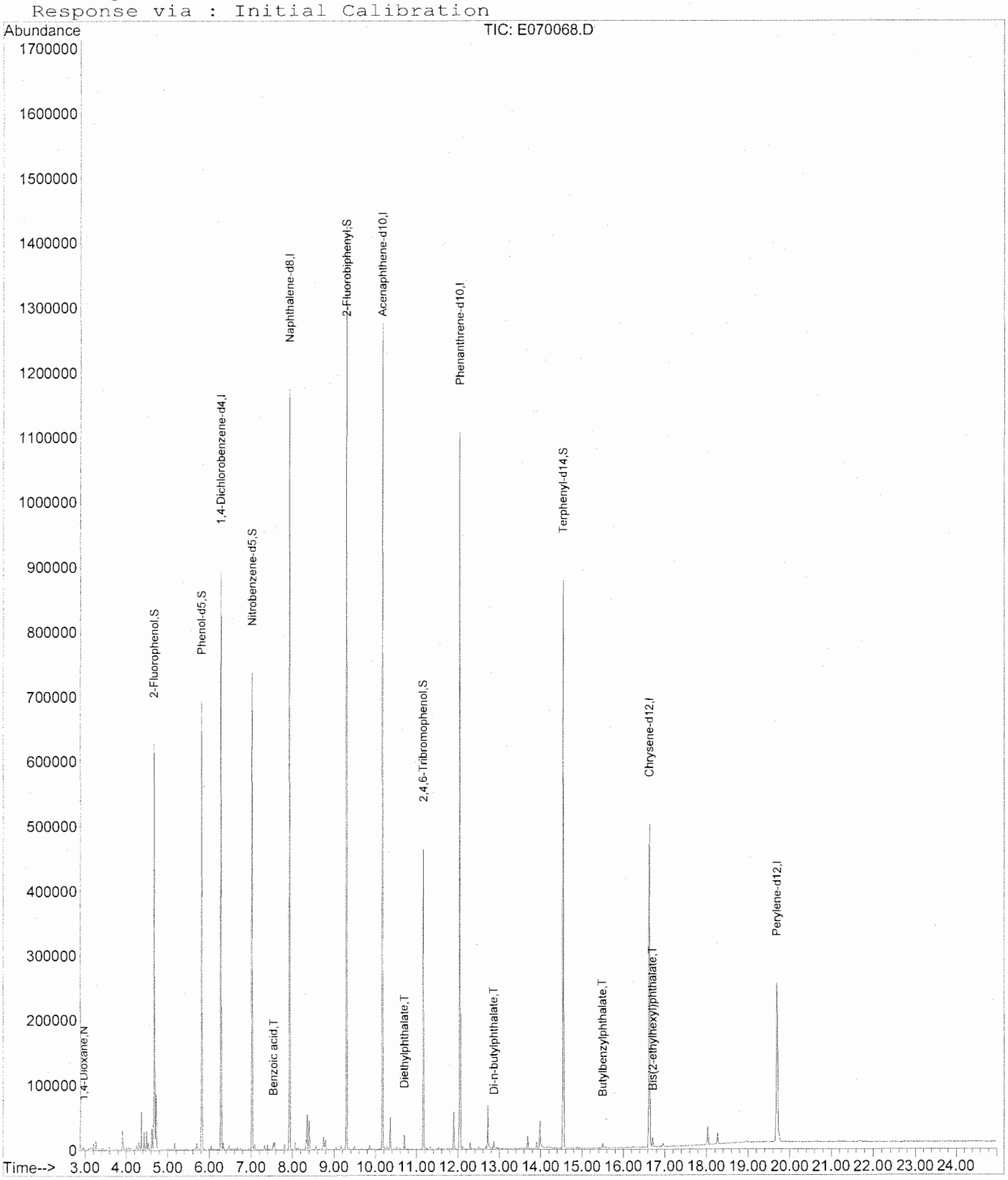
GJ 1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070068.D Vial: 21
Acq On : 18 Jan 2007 11:22 pm Operator: GJ
Sample : D0700056-015 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:29 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070068.D Vial: 21
Acq On : 18 Jan 2007 11:22 pm Operator: GJ
Sample : D0700056-015 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:26:49 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

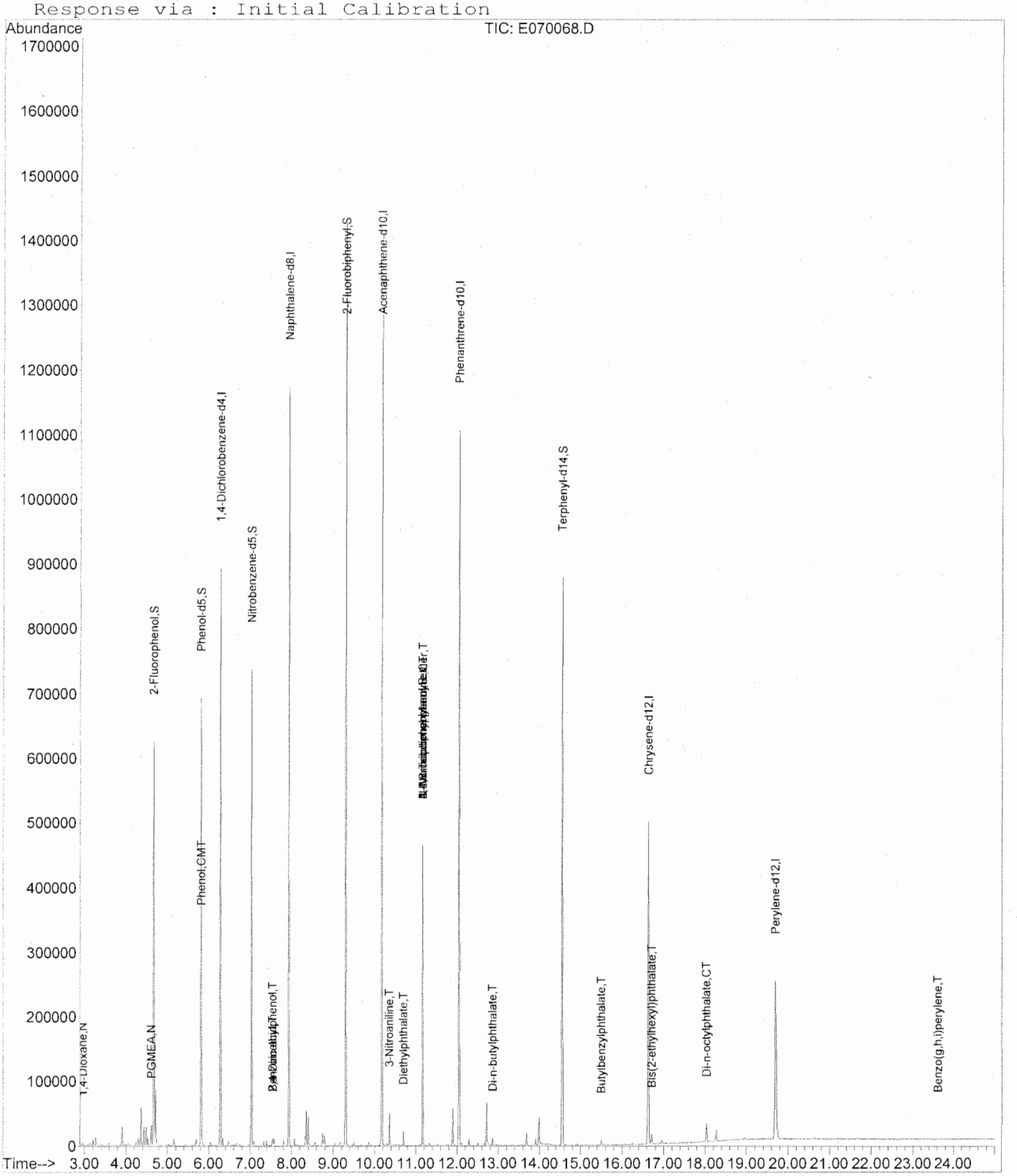
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	164949	40.00	mg/L		-0.08
22) Naphthalene-d8	7.93	136	650016	40.00	mg/L		-0.09
37) Acenaphthene-d10	10.17	164	363195	40.00	mg/L		-0.09
57) Phenanthrene-d10	12.05	188	549686	40.00	mg/L		-0.11
70) Chrysene-d12	16.63	240	281106	40.00	mg/L		-0.16
80) Perylene-d12	19.69	264	182002	40.00	mg/L		-0.22
System Monitoring Compounds							
6) 2-Fluorophenol	4.67	112	222083	42.29	mg/L		-0.06
Spiked Amount 50.000			Recovery =	84.58%			
7) Phenol-d5	5.81	99	293177	43.07	mg/L		-0.06
Spiked Amount 50.000			Recovery =	86.14%			
23) Nitrobenzene-d5	7.03	82	261681	47.65	mg/L		-0.08
Spiked Amount 50.000			Recovery =	95.30%			
41) 2-Fluorobiphenyl	9.30	172	536798	46.87	mg/L		-0.09
Spiked Amount 50.000			Recovery =	93.74%			
61) 2,4,6-Tribromophenol	11.17	330	55055	41.76	mg/L		-0.10
Spiked Amount 50.000			Recovery =	83.52%			
73) Terphenyl-d14	14.55	244	389015	49.51	mg/L		-0.14
Spiked Amount 50.000			Recovery =	99.02%			
Target Compounds							Qvalue
2) 1,4-Dioxane	2.97	88	1030	0.43	mg/L		90
5) PGMEA	4.62	43	3147	0.28	mg/L	#	18
8) Phenol	5.83	94	3433	0.48	mg/L	#	1
27) 2,4-Dimethylphenol	7.54	122	2423	0.46	mg/L	#	1
28) Benzoic acid	7.54	122	2423	0.70	mg/L		91
47) 3-Nitroaniline	10.36	138	113	1.82	mg/L	#	1
54) Diethylphthalate	10.71	149	2289	0.20	mg/L		95
59) N-Nitrosodiphenylamine	11.16	169	2444	0.31	mg/L	#	41
62) 4-Bromophenyl phenyl ether	11.17	248	3195	1.11	mg/L	#	1
67) Carbazole	12.29	167	57	Below Cal		#	59
68) Di-n-butylphthalate	12.86	149	7726	0.46	mg/L	#	97
74) Butylbenzylphthalate	15.50	149	2663	0.49	mg/L		96
78) Bis(2-ethylhexyl)phthalate	16.71	149	6851	0.97	mg/L	#	98
81) Di-n-octylphthalate	18.04	149	4348	0.37	mg/L	#	79
87) Benzo(g,h,i)perylene	23.61	276	1095	0.32	mg/L	#	51

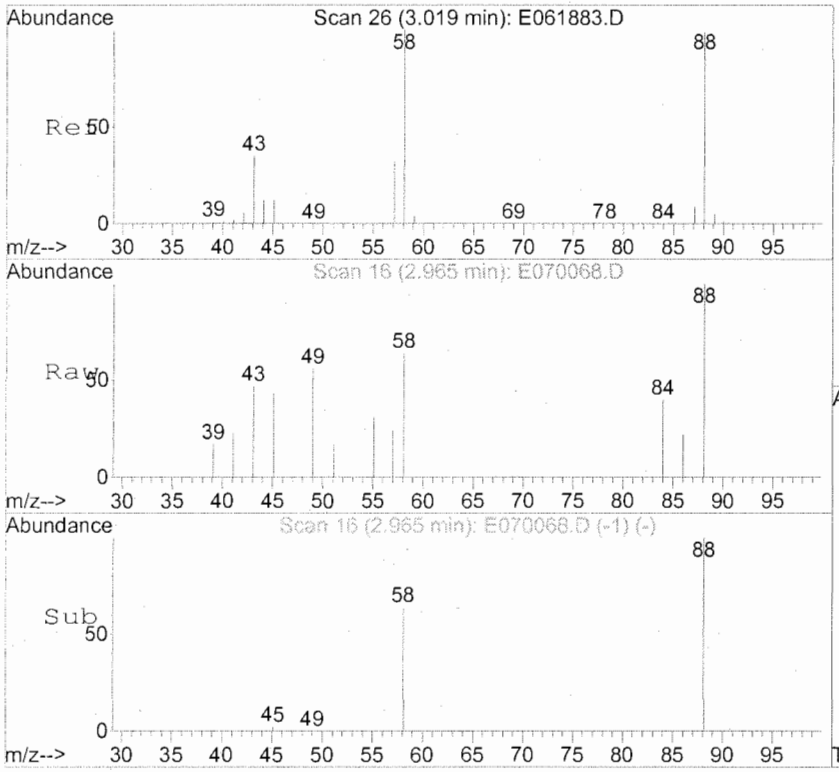
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070068.D Vial: 21
Acq On : 18 Jan 2007 11:22 pm Operator: GJ
Sample : D0700056-015 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:26 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

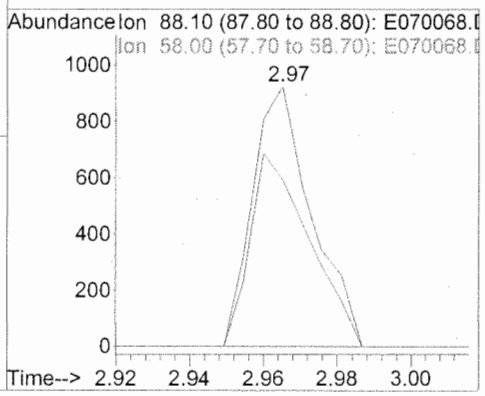


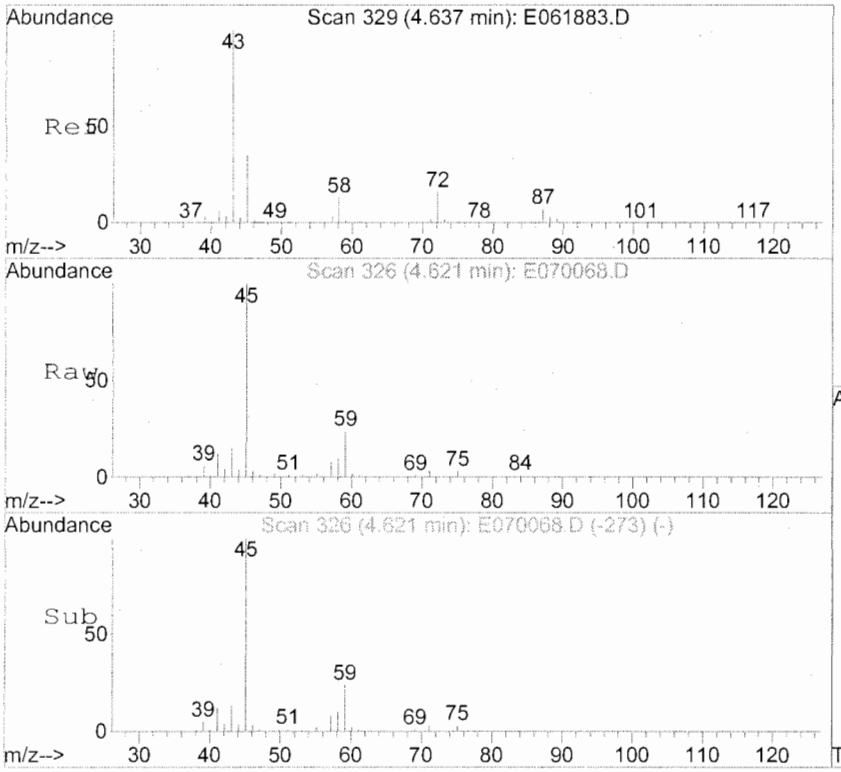


#2
1,4-Dioxane
Concen: 0.43 mg/L
RT: 2.97 min Scan# 16
Delta R.T. -0.05 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion: 88 Resp: 1030

Ion	Ratio	Lower	Upper
88	100		
58	74.6	53.5	80.3

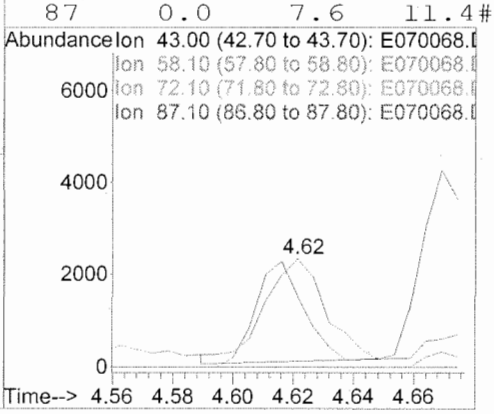


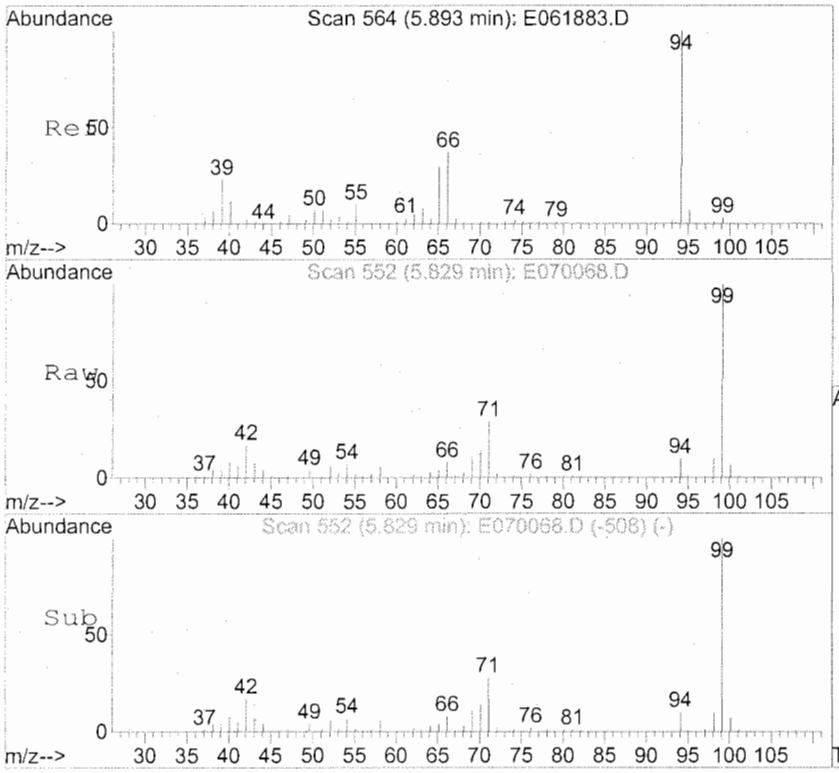


#5
PGMEA
Concen: 0.28 mg/L
RT: 4.62 min Scan# 326
Delta R.T. -0.02 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion: 43 Resp: 3147

Ion	Ratio	Lower	Upper
43	100		
58	86.5	9.7	14.5#
72	0.0	20.4	30.6#
87	0.0	7.6	11.4#

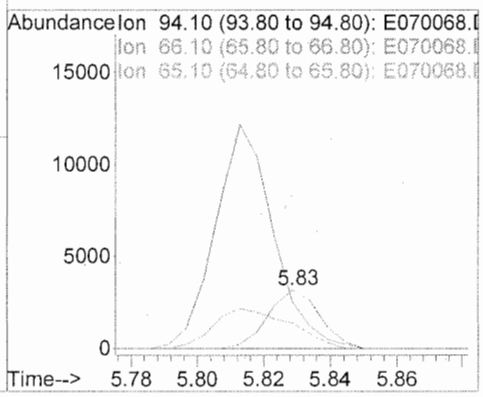


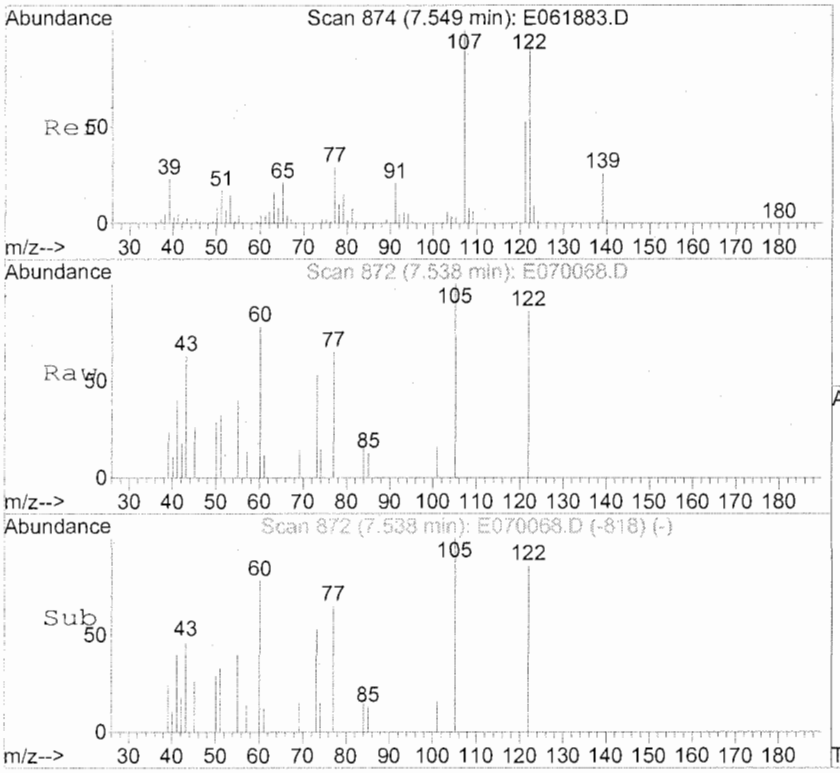


#8
Phenol
Concen: 0.48 mg/L
RT: 5.83 min Scan# 552
Delta R.T. -0.06 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion: 94 Resp: 3433

Ion	Ratio	Lower	Upper
94	100		
66	433.4	38.3	57.5#
65	101.4	27.1	40.7#

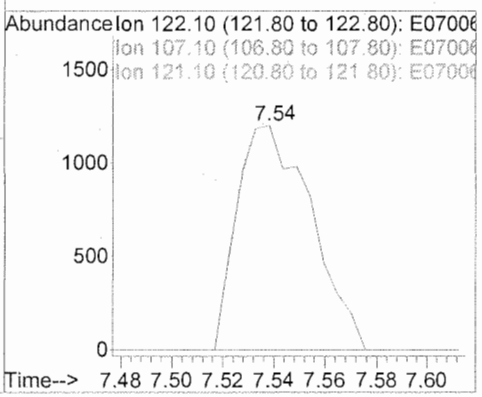


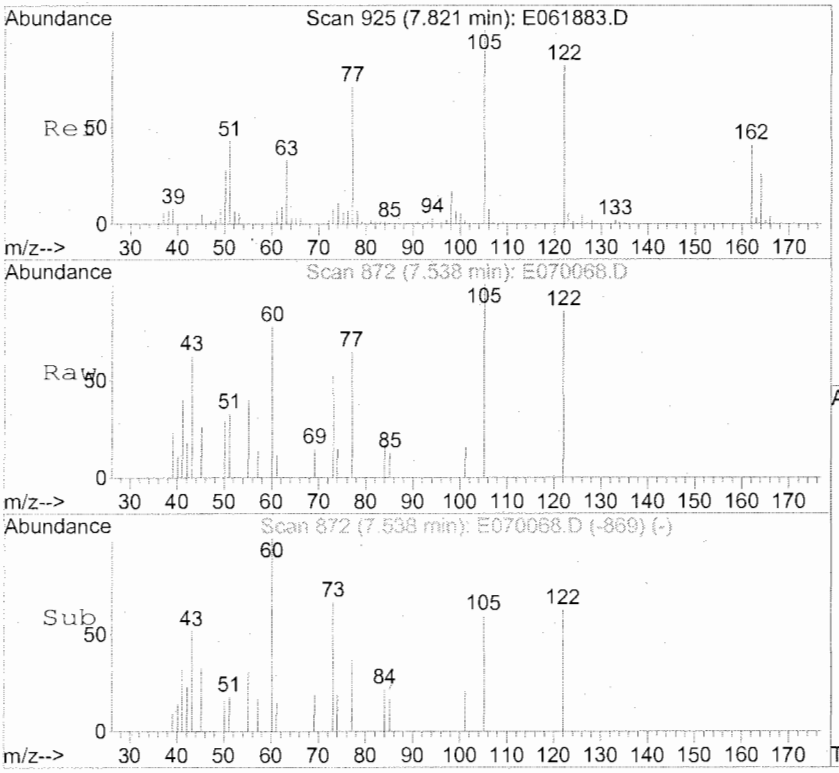


#27
2,4-Dimethylphenol
Concen: 0.46 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:122 Resp: 2423

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

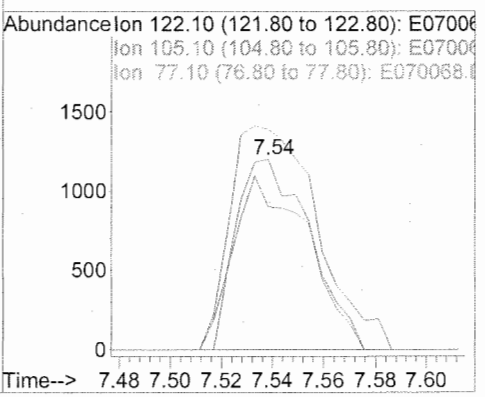


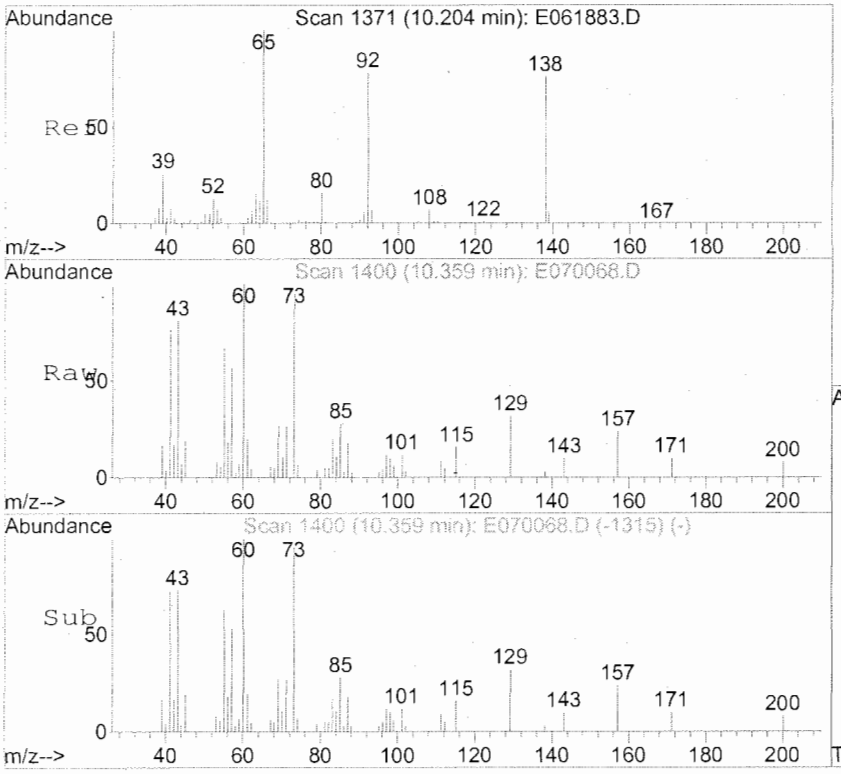


#28
Benzoic acid
Concen: 0.70 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.28 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:122 Resp: 2423

Ion	Ratio	Lower	Upper
122	100		
105	138.1	110.2	165.2
77	91.6	89.8	134.8

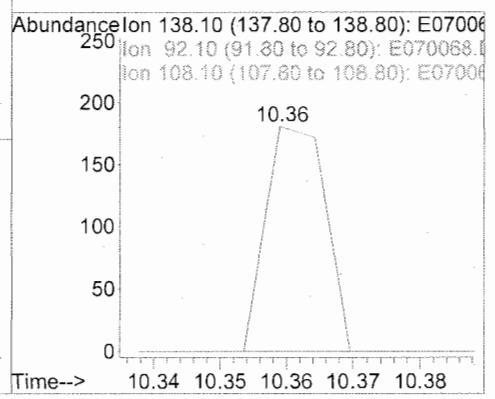


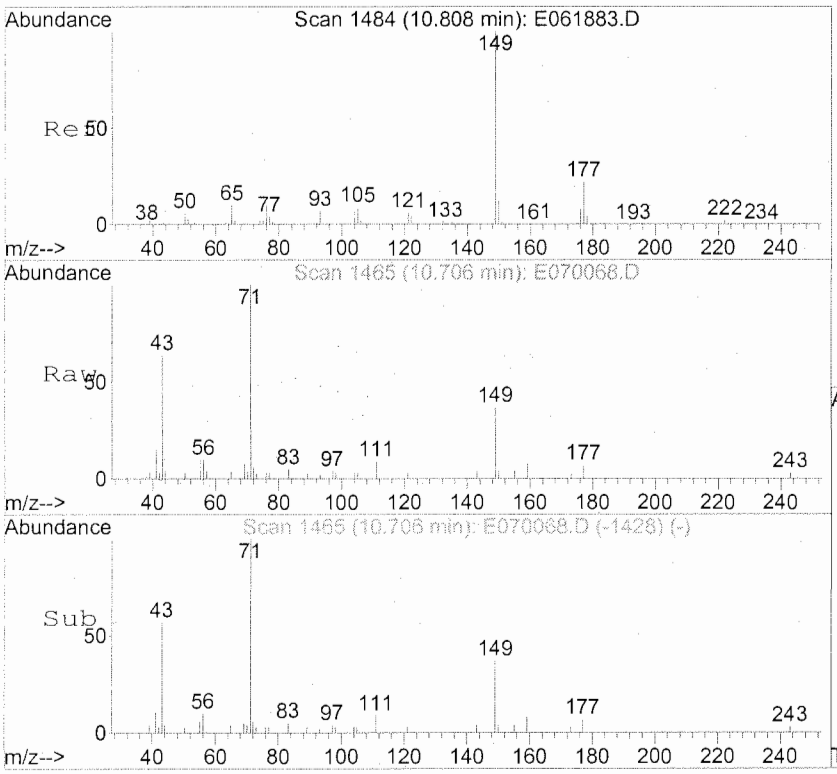


#47
3-Nitroaniline
Concen: 1.82 mg/L
RT: 10.36 min Scan# 1400
Delta R.T. 0.16 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:138 Resp: 113

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

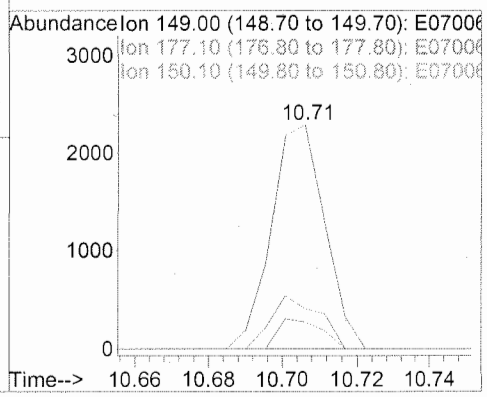


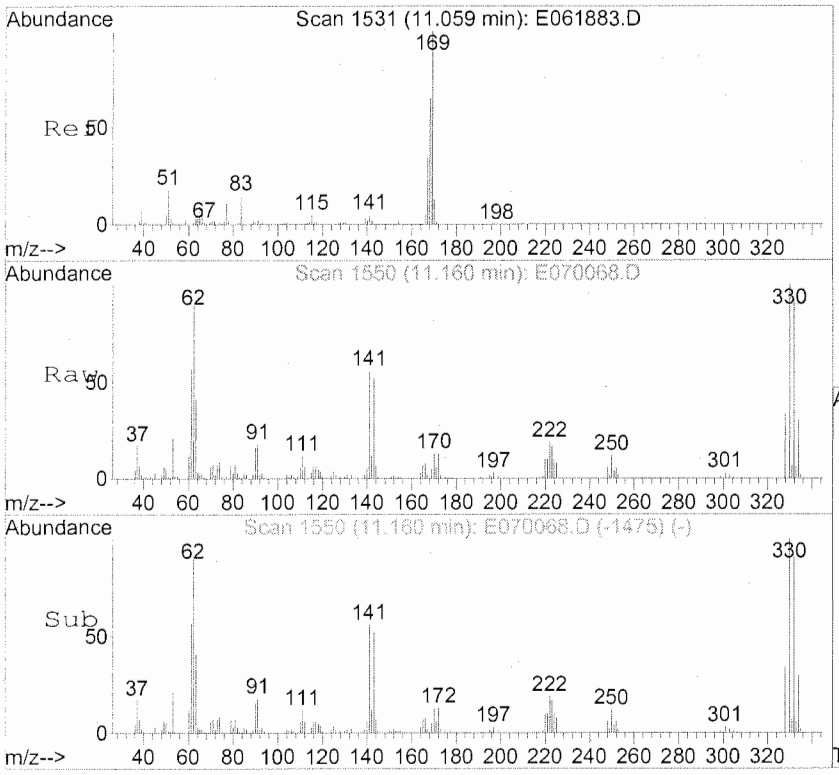


#54
Diethylphthalate
Concen: 0.20 mg/L
RT: 10.71 min Scan# 1465
Delta R.T. -0.10 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:149 Resp: 2289

Ion	Ratio	Lower	Upper
149	100		
177	21.3	19.0	28.6
150	10.7	10.0	15.0

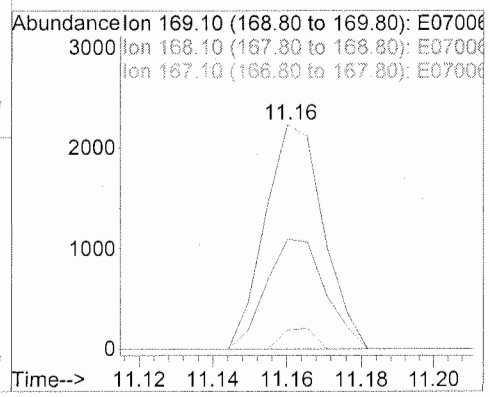


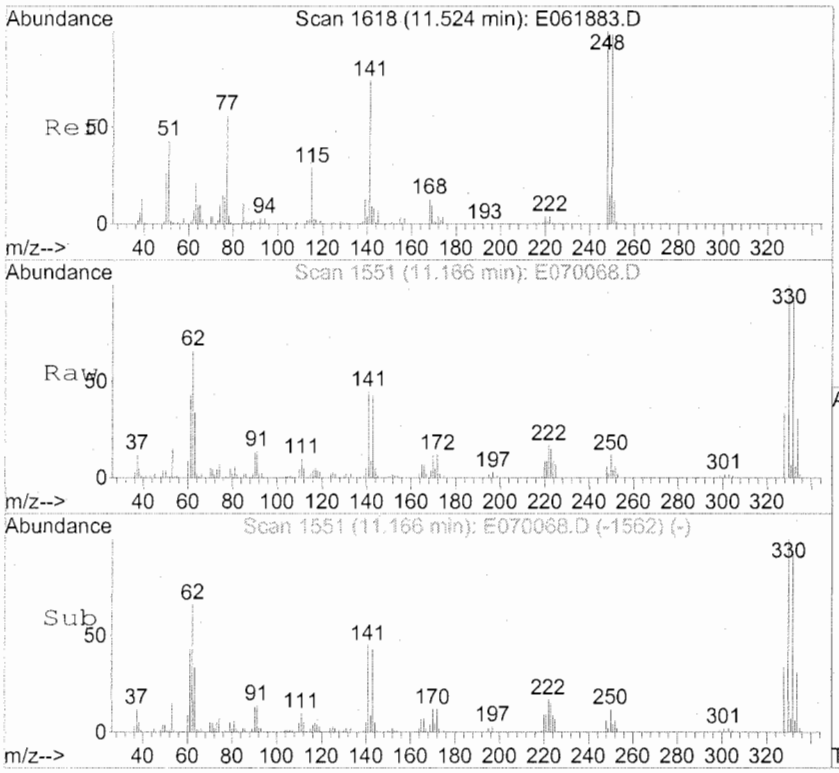


#59
N-Nitrosodiphenylamine
Concen: 0.31 mg/L
RT: 11.16 min Scan# 1550
Delta R.T. 0.10 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:169 Resp: 2444

Ion	Ratio	Lower	Upper
169	100		
168	5.2	50.8	76.2#
167	49.5	27.0	40.4#

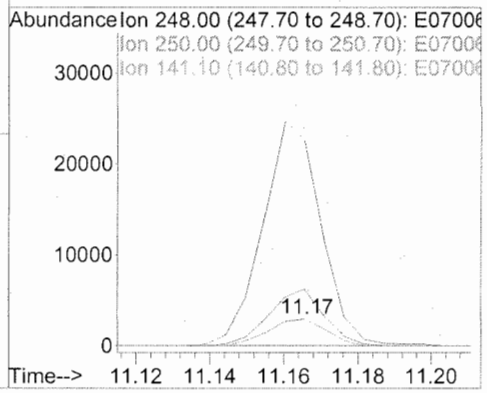


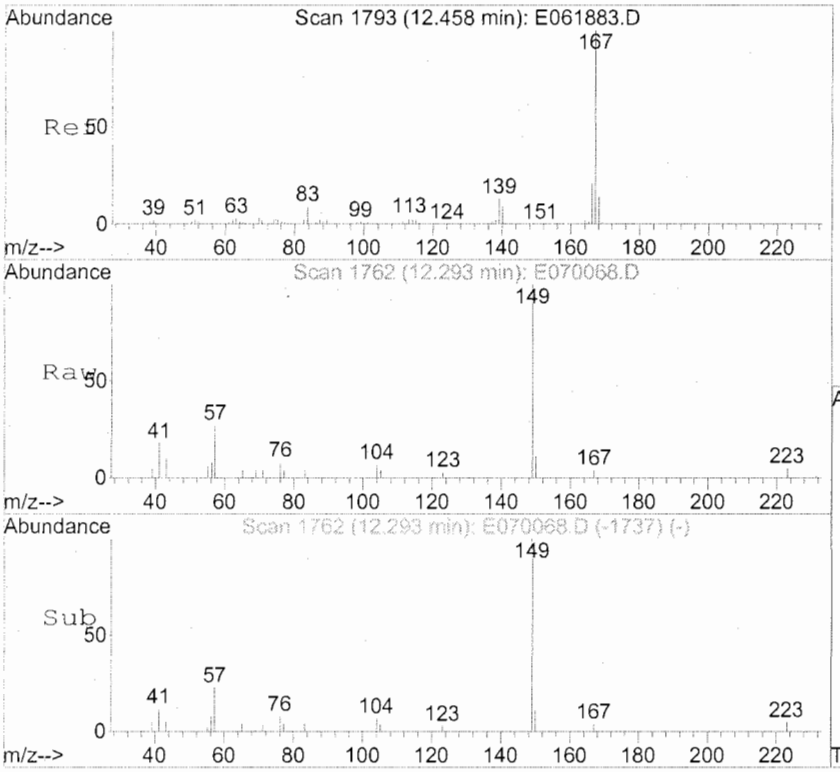


#62
4-Bromophenyl phenyl ether
Concen: 1.11 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:248 Resp: 3195

Ion	Ratio	Lower	Upper
248	100		
250	201.8	79.0	118.4#
141	844.6	64.3	96.5#

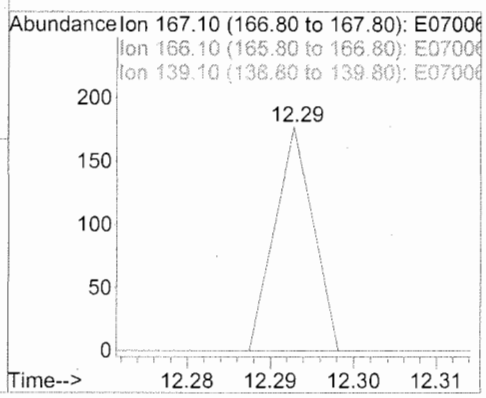


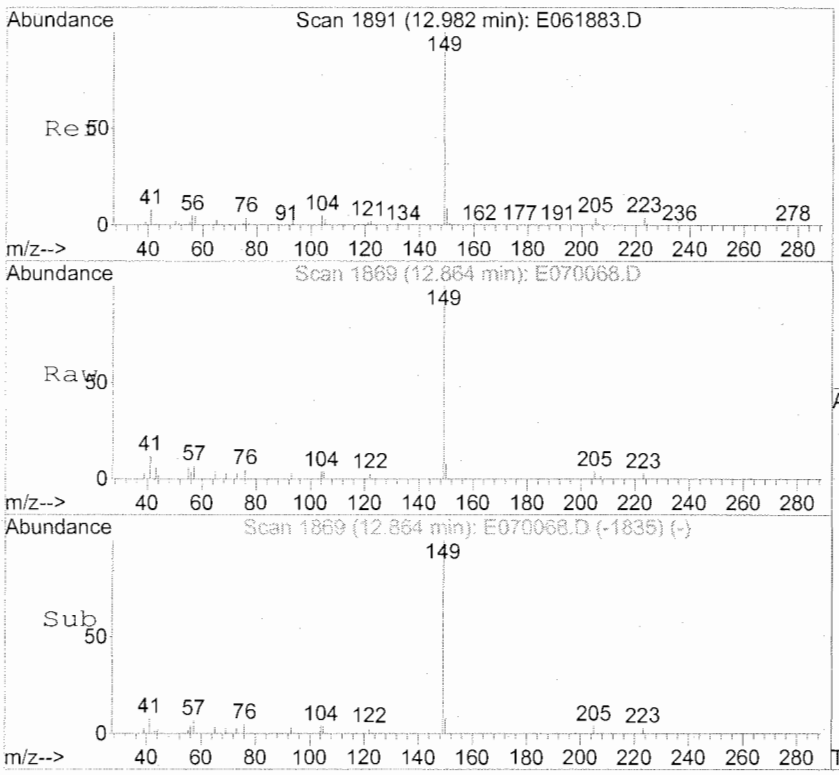


#67
Carbazole
Concen: Below Cal
RT: 12.29 min Scan# 1762
Delta R.T. -0.17 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:167 Resp: 57

Ion	Ratio	Lower	Upper
167	100		
166	0.0	17.2	25.8#
139	0.0	10.6	16.0#

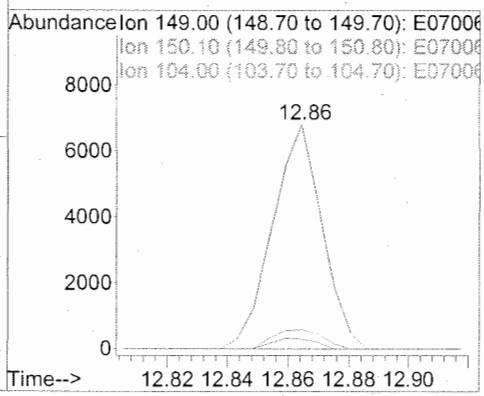


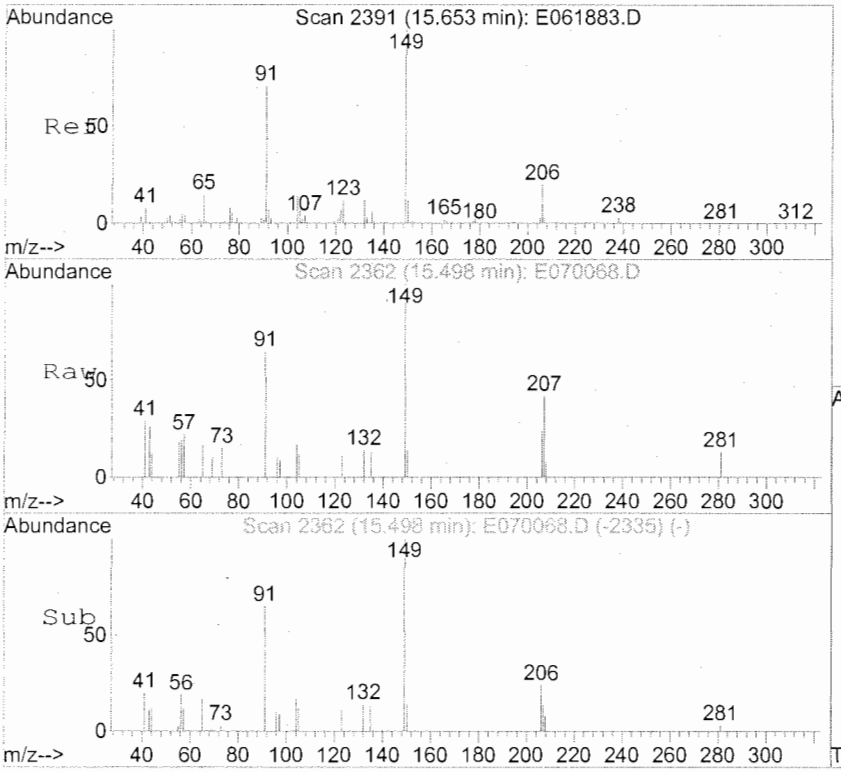


#68
Di-n-butylphthalate
Concen: 0.46 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:149 Resp: 7726

Ion	Ratio	Lower	Upper
149	100		
150	8.6	7.3	10.9
104	4.1	4.6	7.0#

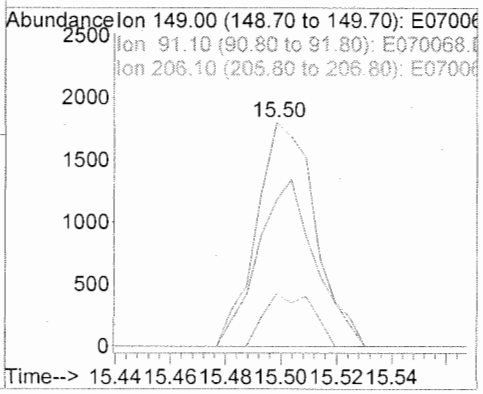


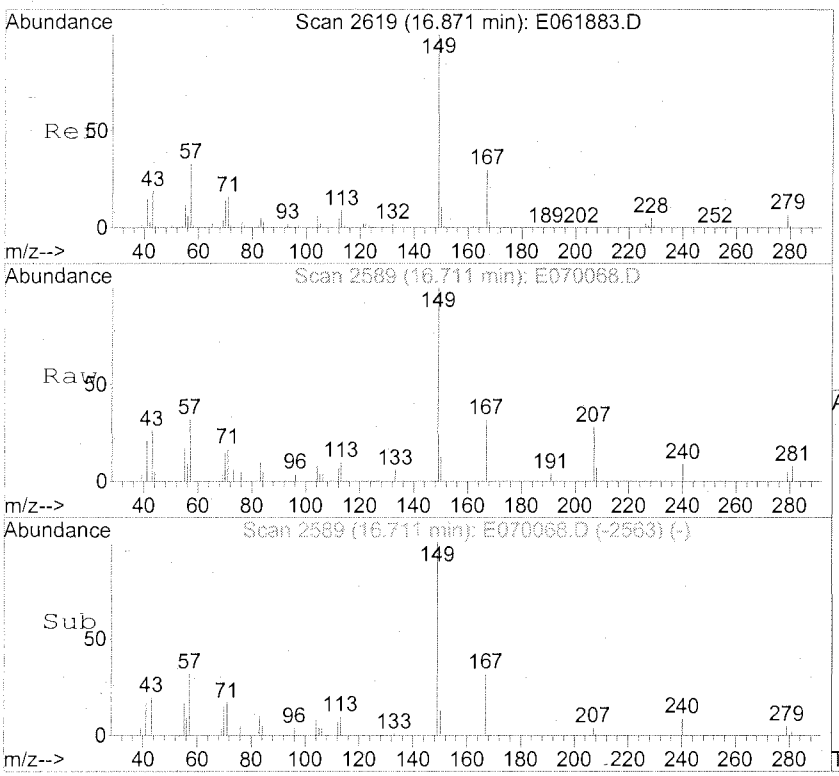


#74
Butylbenzylphthalate
Concen: 0.49 mg/L
RT: 15.50 min Scan# 2362
Delta R.T. -0.15 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:149 Resp: 2663

Ion	Ratio	Lower	Upper
149	100		
91	72.6	59.4	89.0
206	19.6	19.0	28.6

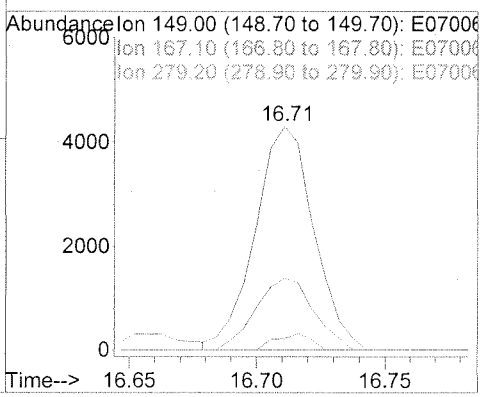


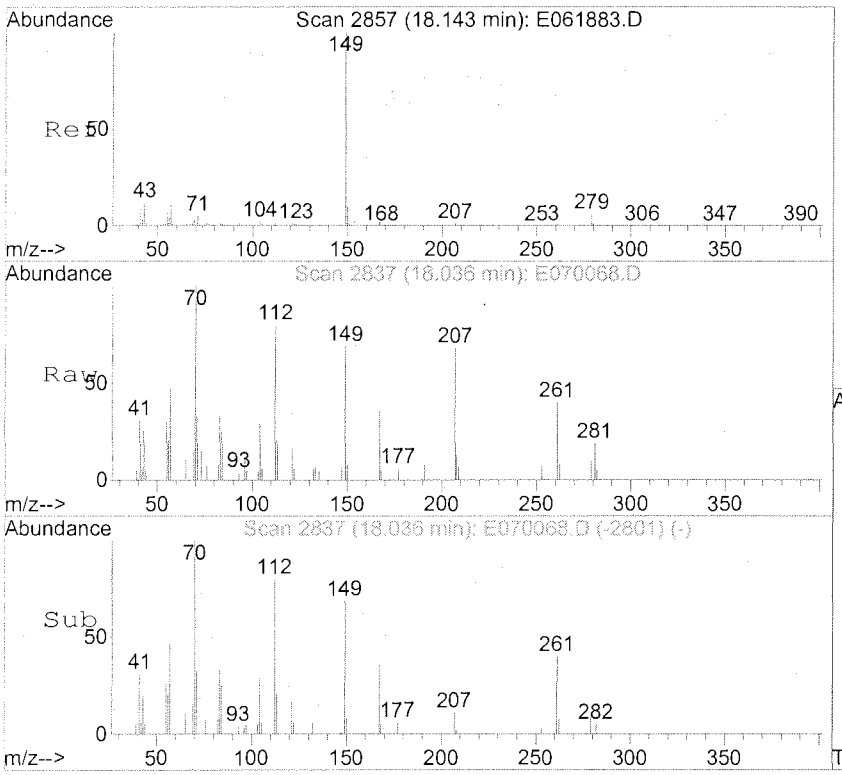


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.97 mg/L
RT: 16.71 min Scan# 2589
Delta R.T. -0.16 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:149 Resp: 6851

Ion	Ratio	Lower	Upper
149	100		
167	31.7	25.0	37.6
279	4.4	6.2	9.2#

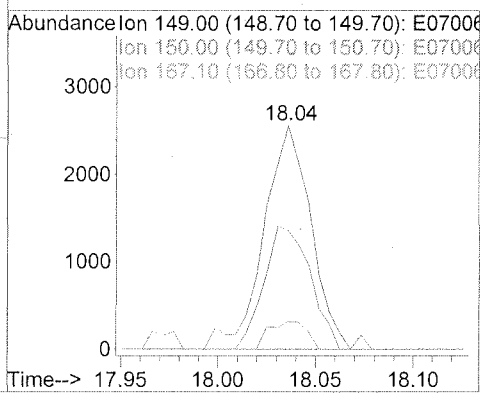


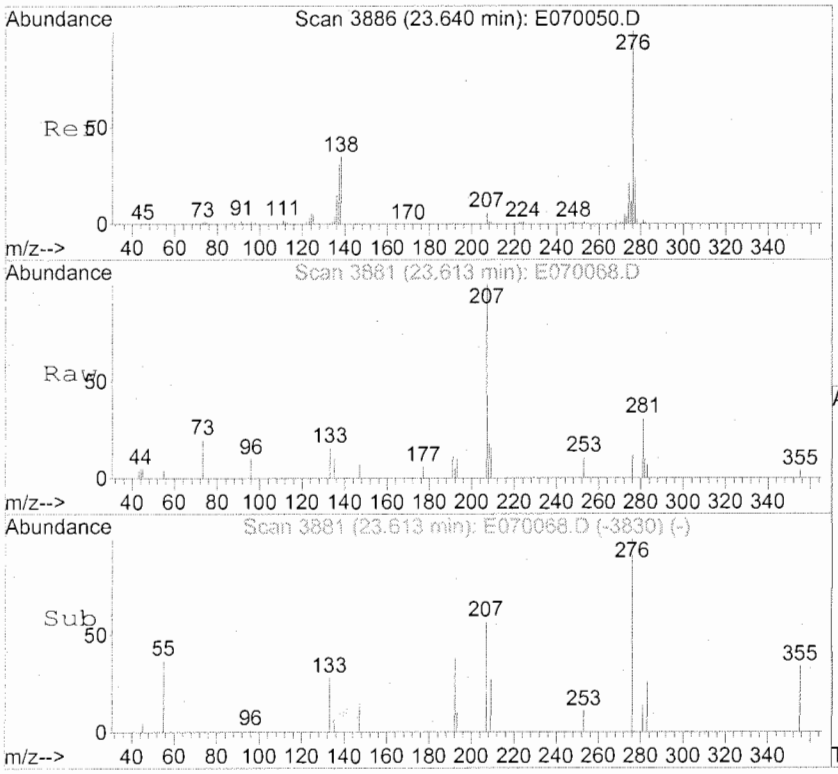


#81
Di-n-octylphthalate
Concen: 0.37 mg/L
RT: 18.04 min Scan# 2837
Delta R.T. -0.11 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:149 Resp: 4348

Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.8	11.8
167	53.2	1.4	2.0#

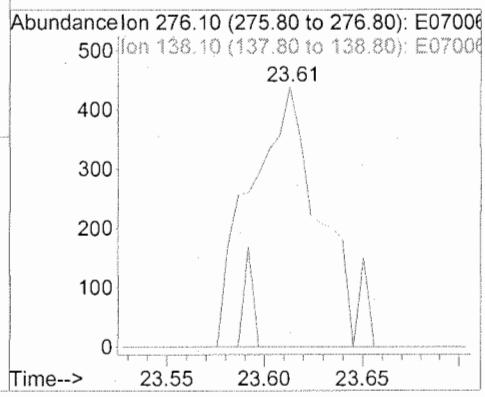




#87
Benzo(g,h,i)perylene
Concen: 0.32 mg/L
RT: 23.61 min Scan# 3881
Delta R.T. -0.03 min
Lab File: E070068.D
Acq: 18 Jan 2007 11:22 pm

Tgt Ion:276 Resp: 1095

Ion	Ratio	Lower	Upper
276	100		
138	4.9	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/12/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76108	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070069.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 23:54	**Quant Date:**	01/19/2007 09:31	**Vial:**	22
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-016			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	182748	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	737727	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	421033	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	656985	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	365655	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	211973	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	220454	37.89	76	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	301074	39.92	80	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	282315	45.29	91	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	594849	44.81	90	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	55037	34.93	70	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	403271	39.46	79	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0**d**		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070069.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 23:54	**Quant Date:**	01/19/2007 09:31	**Vial:**	22
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-016			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0d		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid				122	0		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0d		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.71	-0.01	0.00	149	19021	1.45	1.4	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070069.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 23:54	**Quant Date:**	01/19/2007 09:31	**Vial:**	22
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-016			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	8997	0.4500	0.43	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	84383	9.14	8.7		
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070069.D Vial: 22
Acq On : 18 Jan 2007 11:54 pm Operator: GJ
Sample : D0700056-016 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:27:20 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	182748	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	737727	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	421033	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	656985	40.00	mg/L	-0.10
70) Chrysene-d12	16.64	240	365655	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	211973	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	220454	37.89	mg/L	-0.06
Spiked Amount 50.000			Recovery =	75.78%		
7) Phenol-d5	5.81	99	301074	39.92	mg/L	-0.06
Spiked Amount 50.000			Recovery =	79.84%		
23) Nitrobenzene-d5	7.03	82	282315	45.29	mg/L	-0.07
Spiked Amount 50.000			Recovery =	90.58%		
41) 2-Fluorobiphenyl	9.30	172	594849	44.81	mg/L	-0.09
Spiked Amount 50.000			Recovery =	89.62%		
61) 2,4,6-Tribromophenol	11.17	330	55037	34.93	mg/L	-0.10
Spiked Amount 50.000			Recovery =	69.86%		
73) Terphenyl-d14	14.55	244	403271	39.46	mg/L	-0.13
Spiked Amount 50.000			Recovery =	78.92%		
Target Compounds						Qvalue
54) Diethylphthalate	10.71	149	19021	1.45	mg/L	99
68) Di-n-butylphthalate	12.86	149	8997	0.45	mg/L #	99
78) Bis(2-ethylhexyl)phthalate	16.72	149	84383	9.14	mg/L	98

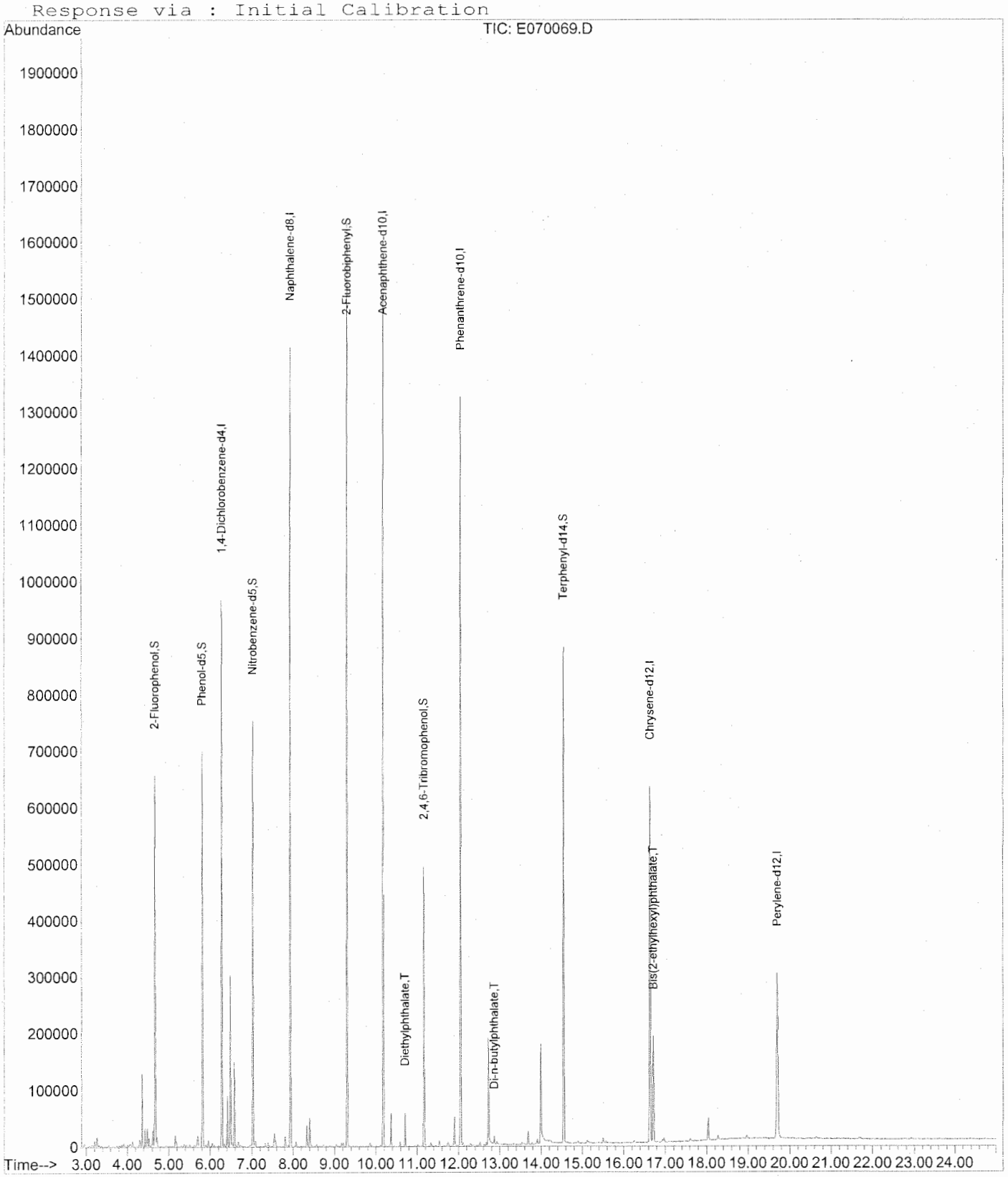
1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070069.D Vial: 22
Acq On : 18 Jan 2007 11:54 pm Operator: GJ
Sample : D0700056-016 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:31 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070069.D Vial: 22
Acq On : 18 Jan 2007 11:54 pm Operator: GJ
Sample : D0700056-016 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 09:27:20 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

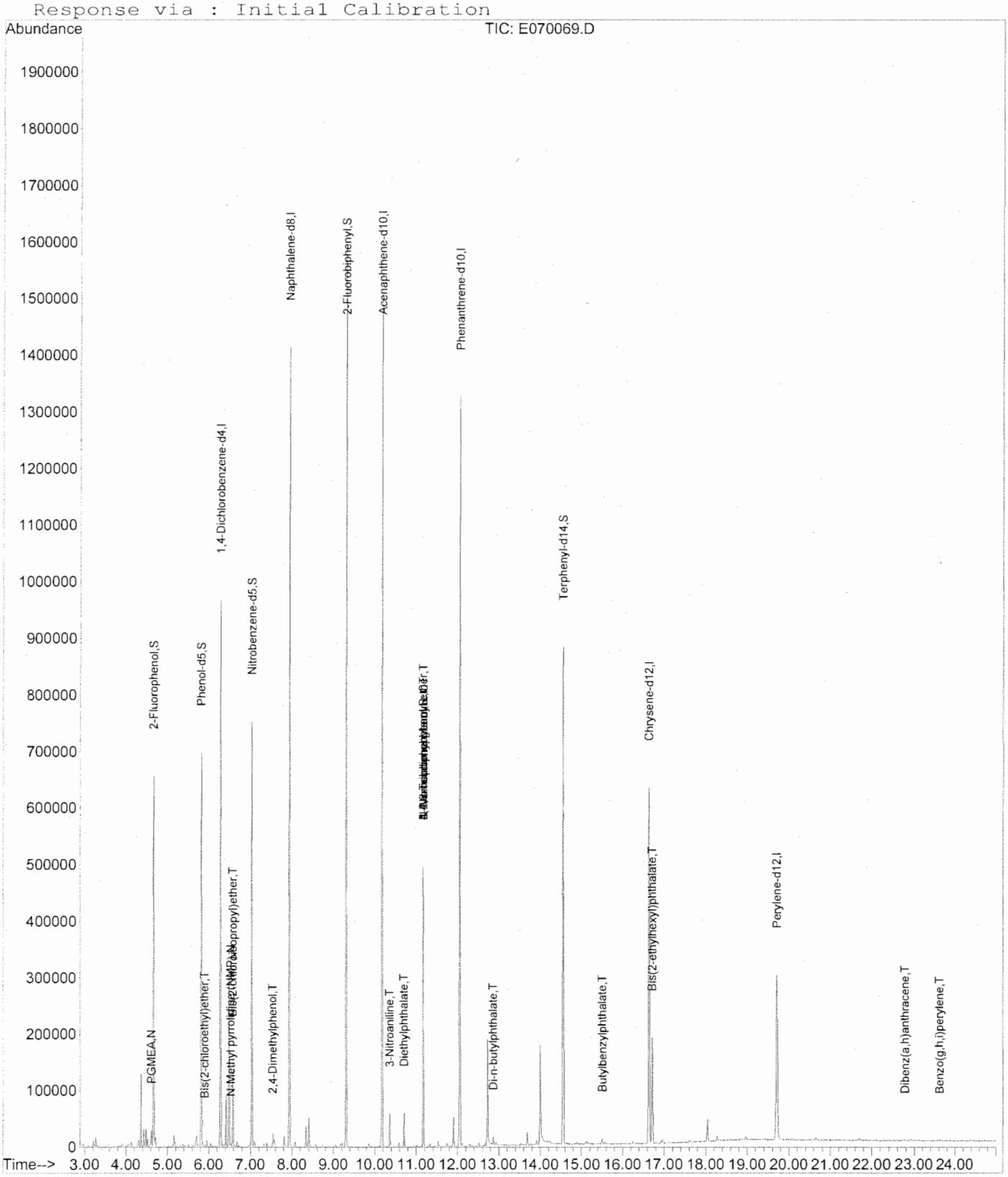
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	182748	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	737727	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	421033	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	656985	40.00	mg/L	-0.10
70) Chrysene-d12	16.64	240	365655	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	211973	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	220454	37.89	mg/L	-0.06
Spiked Amount 50.000			Recovery =	75.78%		
7) Phenol-d5	5.81	99	301074	39.92	mg/L	-0.06
Spiked Amount 50.000			Recovery =	79.84%		
23) Nitrobenzene-d5	7.03	82	282315	45.29	mg/L	-0.07
Spiked Amount 50.000			Recovery =	90.58%		
41) 2-Fluorobiphenyl	9.30	172	594849	44.81	mg/L	-0.09
Spiked Amount 50.000			Recovery =	89.62%		
61) 2,4,6-Tribromophenol	11.17	330	55037	34.93	mg/L	-0.10
Spiked Amount 50.000			Recovery =	69.86%		
73) Terphenyl-d14	14.55	244	403271	39.46	mg/L	-0.13
Spiked Amount 50.000			Recovery =	78.92%		
Target Compounds						Qvalue
5) PGMEA	4.62	43	2884	0.23	mg/L #	41
10) Bis(2-chloroethyl)ether	5.90	93	1379	0.21	mg/L #	70
16) N-Methyl pyrrolidine (NMP)	6.53	99	1584	0.37	mg/L	97
18) Bis(2-chloroisopropyl)ethe	6.58	45	65120	5.22	mg/L #	49
27) 2,4-Dimethylphenol	7.53	122	2065	0.35	mg/L #	1
47) 3-Nitroaniline	10.36	138	220	1.86	mg/L #	1
54) Diethylphthalate	10.71	149	19021	1.45	mg/L	99
59) N-Nitrosodiphenylamine	11.17	169	2406	0.26	mg/L #	39
62) 4-Bromophenyl phenyl ether	11.17	248	3355	0.97	mg/L #	1
68) Di-n-butylphthalate	12.86	149	8997	0.45	mg/L #	99
74) Butylbenzylphthalate	15.51	149	3002	0.42	mg/L #	89
78) Bis(2-ethylhexyl)phthalate	16.72	149	84383	9.14	mg/L	98
86) Dibenz(a,h)anthracene	22.77	278	959	0.23	mg/L #	58
87) Benzo(g,h,i)perylene	23.62	276	1081	0.27	mg/L #	61

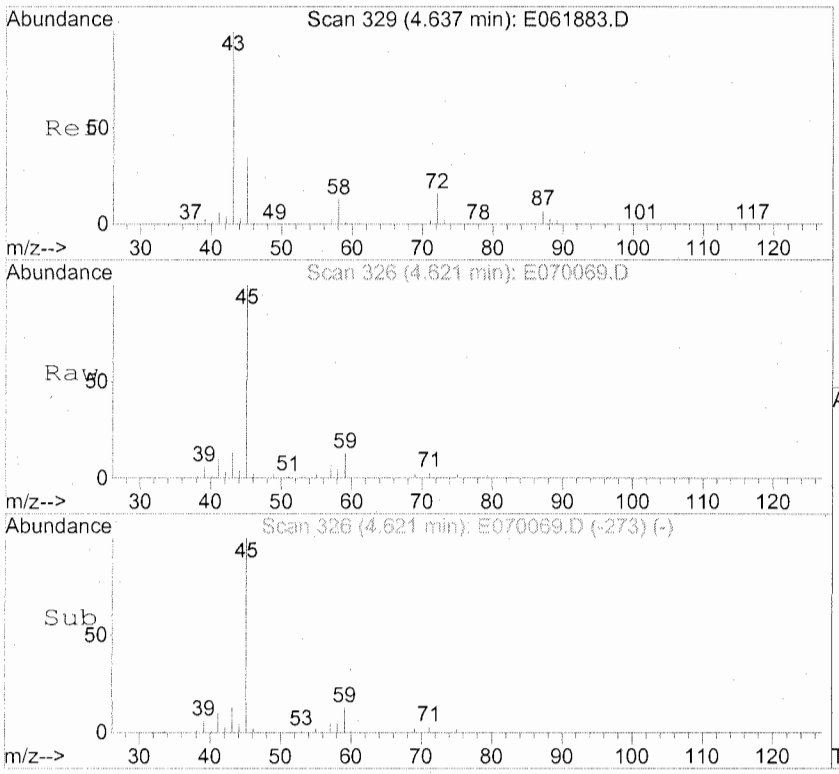
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070069.D Vial: 22
Acq On : 18 Jan 2007 11:54 pm Operator: GJ
Sample : D0700056-016 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 9:27 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

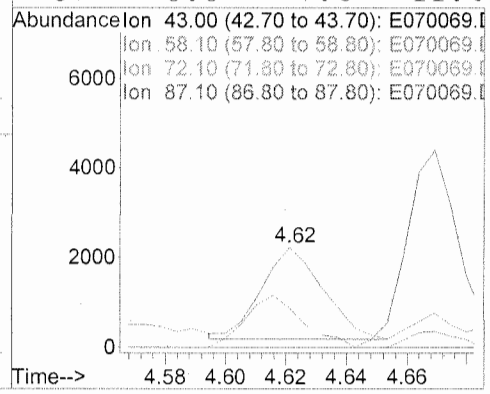


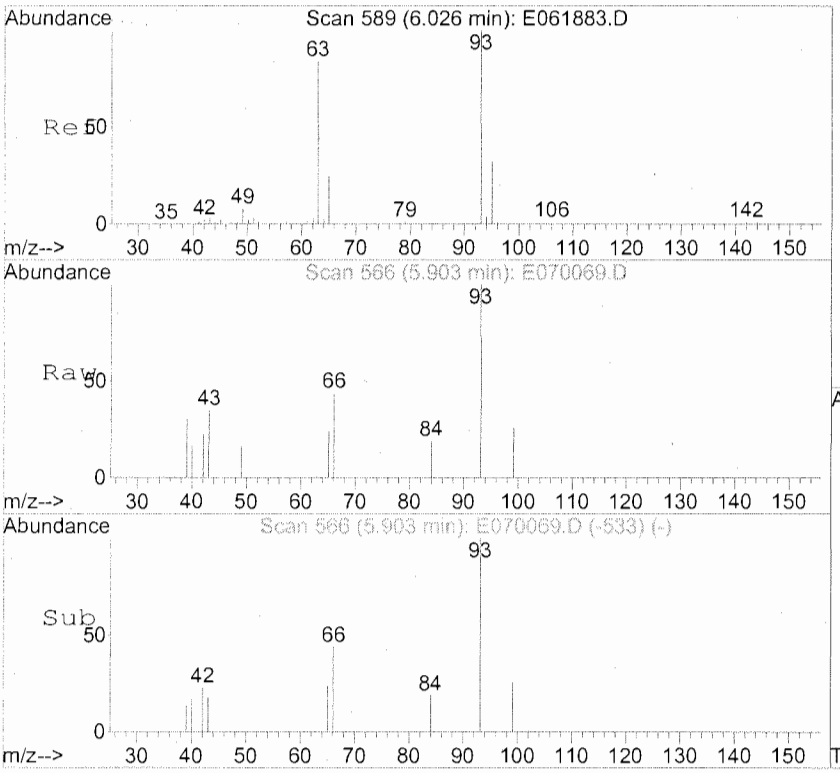


#5
PGMEA
Concen: 0.23 mg/L
RT: 4.62 min Scan# 326
Delta R.T. -0.02 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion: 43 Resp: 2884

Ion	Ratio	Lower	Upper
43	100		
58	51.7	9.7	14.5#
72	0.0	20.4	30.6#
87	0.0	7.6	11.4#

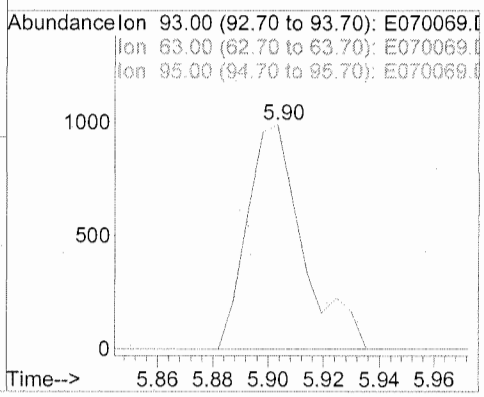


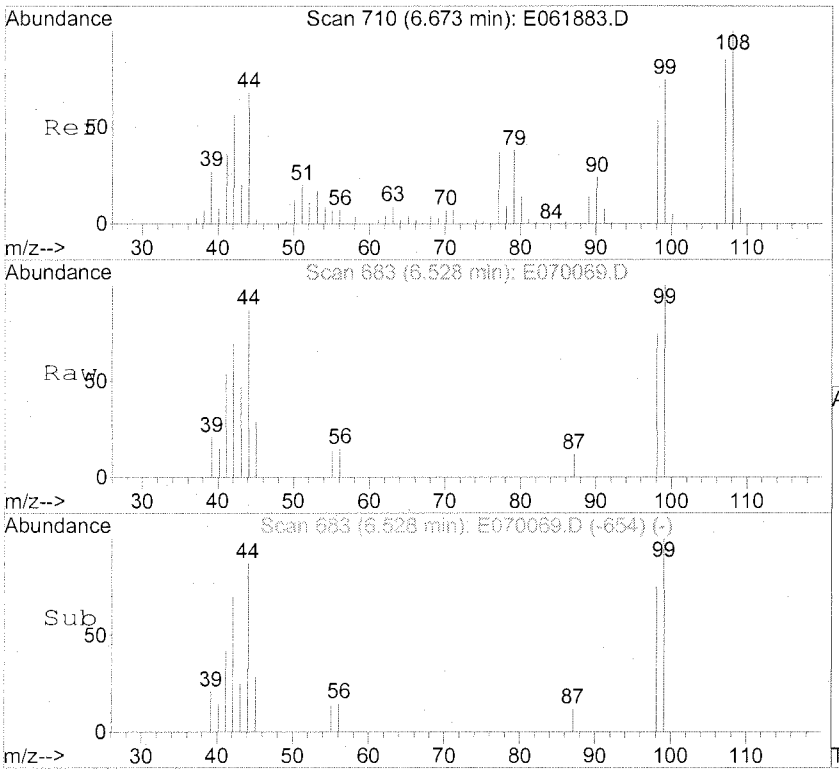


#10
Bis(2-chloroethyl)ether
Concen: 0.21 mg/L
RT: 5.90 min Scan# 566
Delta R.T. -0.12 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion: 93 Resp: 1379

Ion	Ratio	Lower	Upper
93	100		
63	57.9	58.8	88.2#
95	0.0	25.8	38.6#

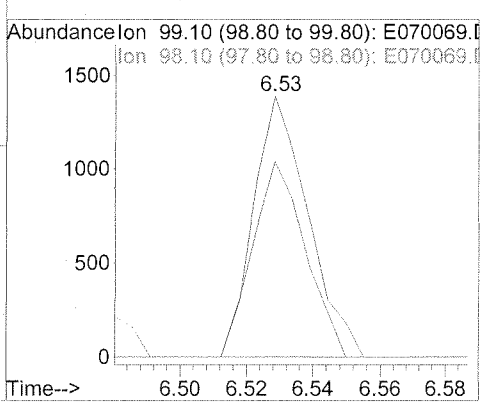


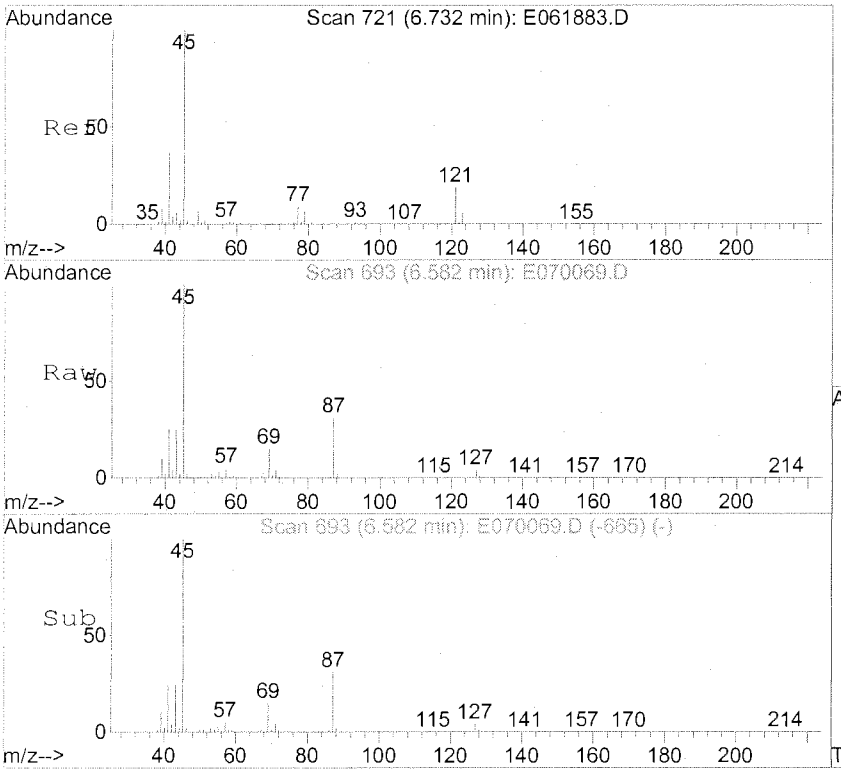


#16
N-Methyl pyrrolidine (NMP)
Concen: 0.37 mg/L
RT: 6.53 min Scan# 683
Delta R.T. -0.14 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion: 99 Resp: 1584

Ion	Ratio	Lower	Upper
99	100		
98	72.7	56.4	84.6

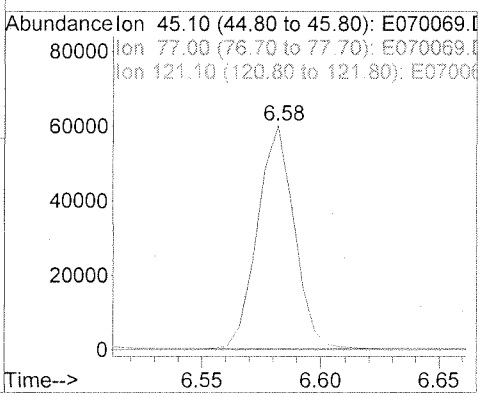


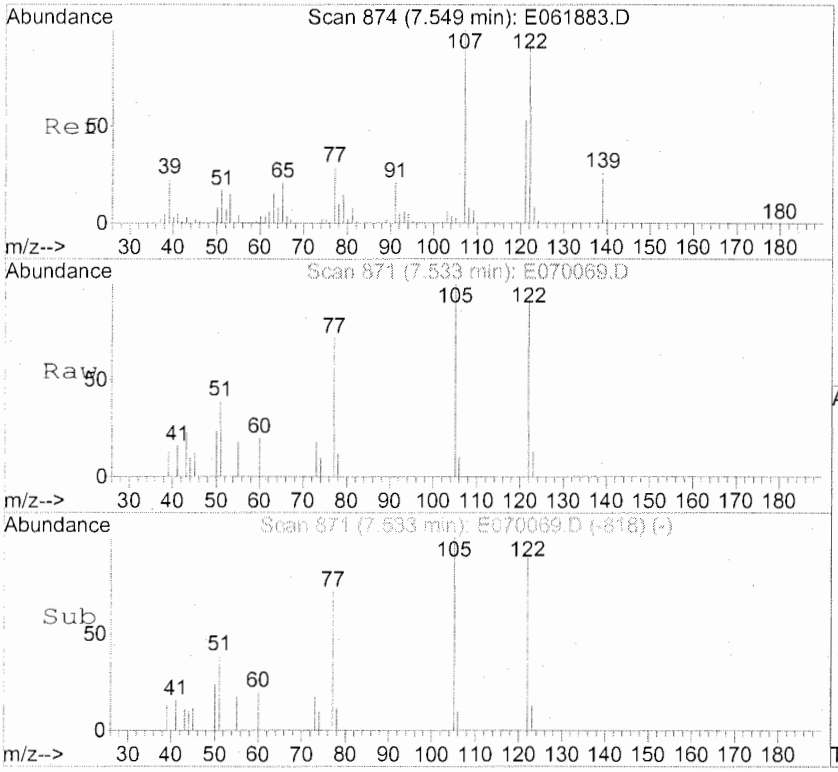


#18
Bis(2-chloroisopropyl)ether
Concen: 5.22 mg/L
RT: 6.58 min Scan# 693
Delta R.T. -0.15 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion: 45 Resp: 65120

Ion	Ratio	Lower	Upper
45	100		
77	0.0	14.2	21.4#
121	0.0	25.0	37.6#

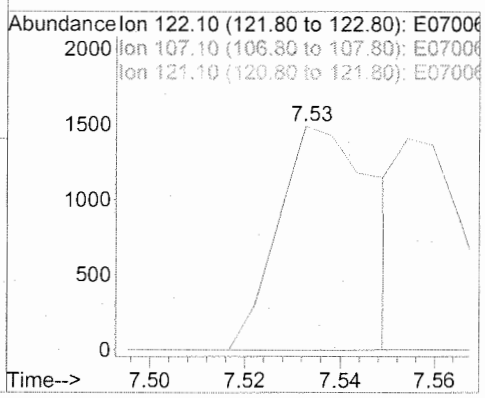


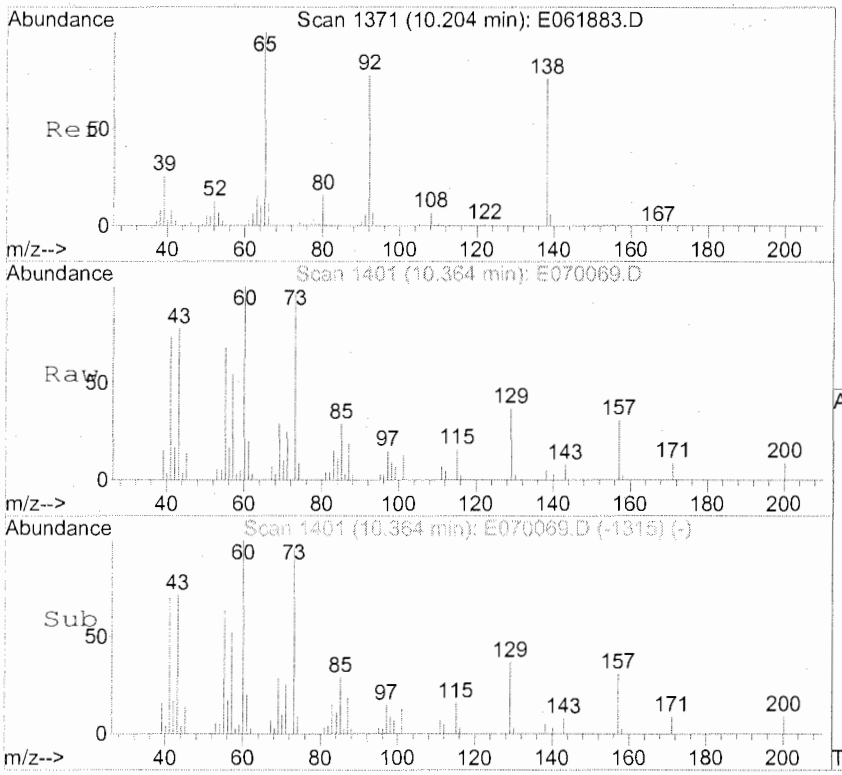


#27
2,4-Dimethylphenol
Concen: 0.35 mg/L
RT: 7.53 min Scan# 871
Delta R.T. -0.02 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:122 Resp: 2065

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

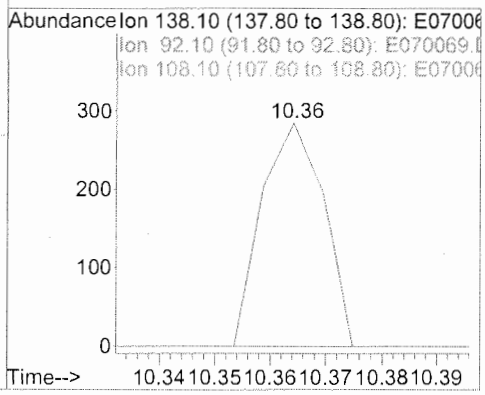


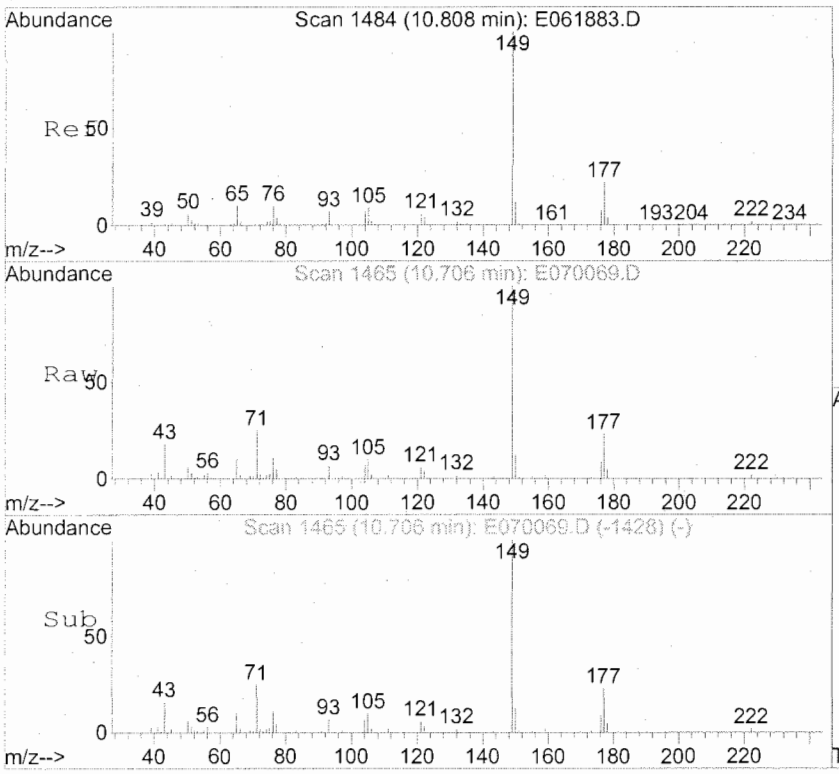


#47
3-Nitroaniline
Concen: 1.86 mg/L
RT: 10.36 min Scan# 1401
Delta R.T. 0.16 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:138 Resp: 220

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

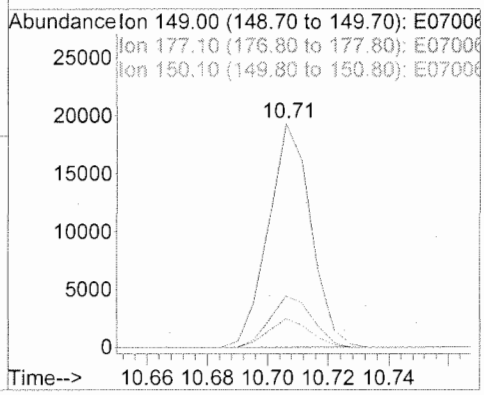


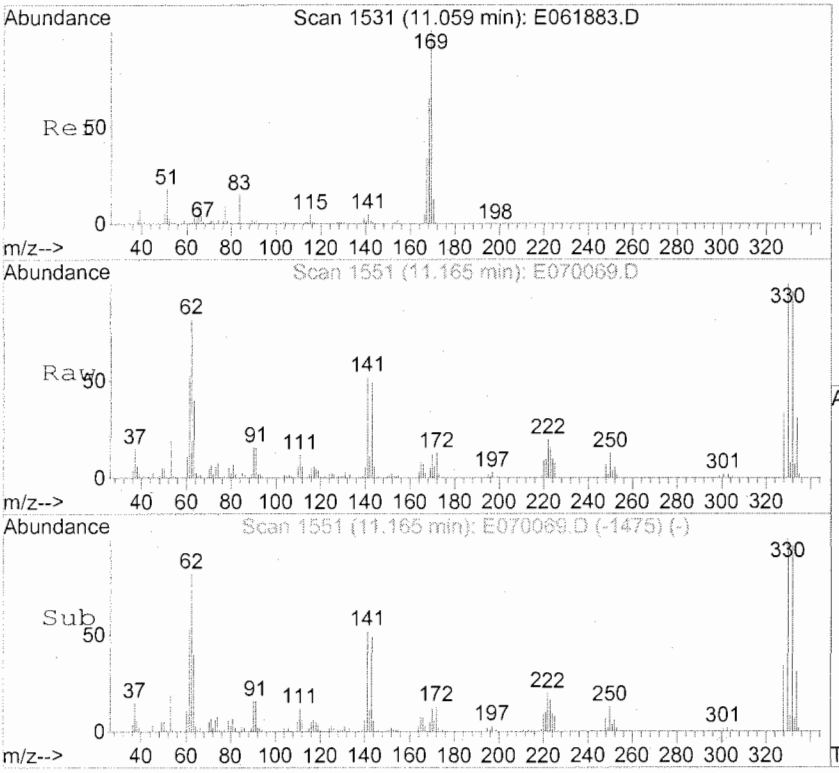


#54
Diethylphthalate
Concen: 1.45 mg/L
RT: 10.71 min Scan# 1465
Delta R.T. -0.10 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:149 Resp: 19021

Ion	Ratio	Lower	Upper
149	100		
177	22.9	19.0	28.6
150	12.5	10.0	15.0

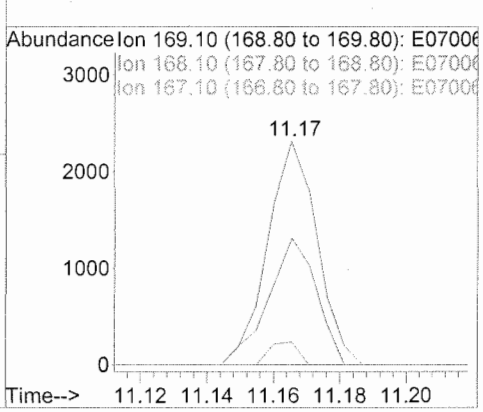


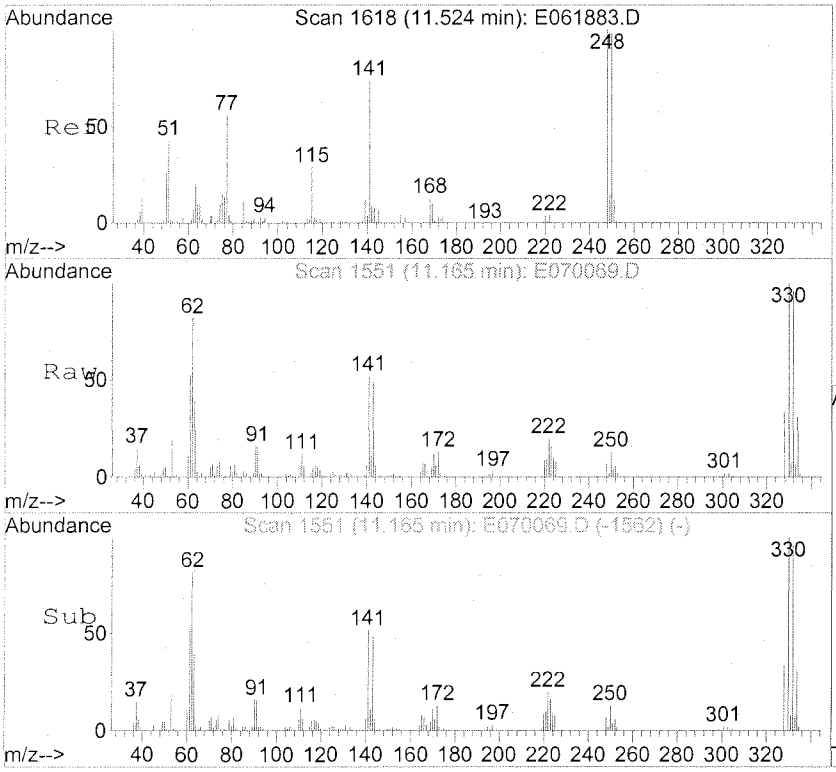


#59
N-Nitrosodiphenylamine
Concen: 0.26 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:169 Resp: 2406

Ion	Ratio	Lower	Upper
169	100		
168	6.1	50.8	76.2#
167	55.4	27.0	40.4#

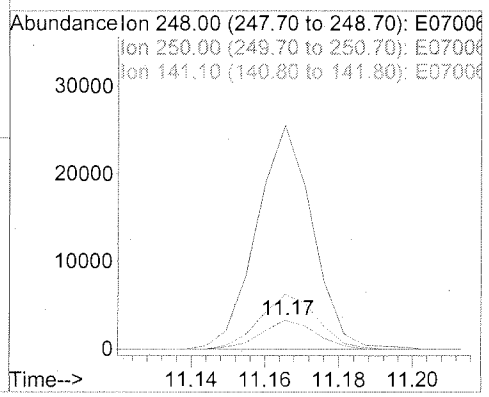


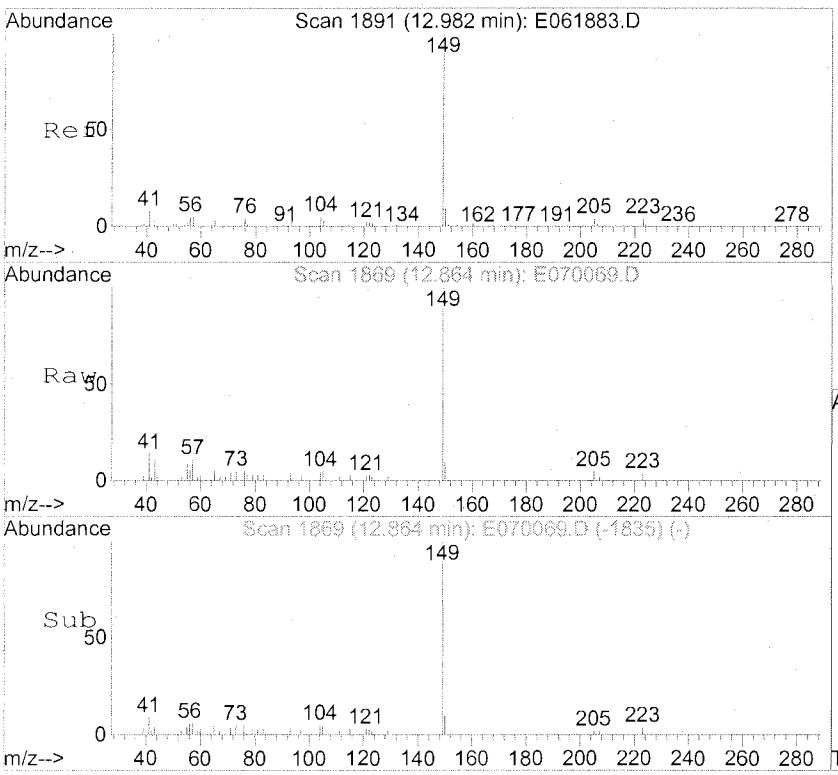


#62
4-Bromophenyl phenyl ether
Concen: 0.97 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:248 Resp: 3355

Ion	Ratio	Lower	Upper
248	100		
250	200.3	79.0	118.4#
141	805.5	64.3	96.5#

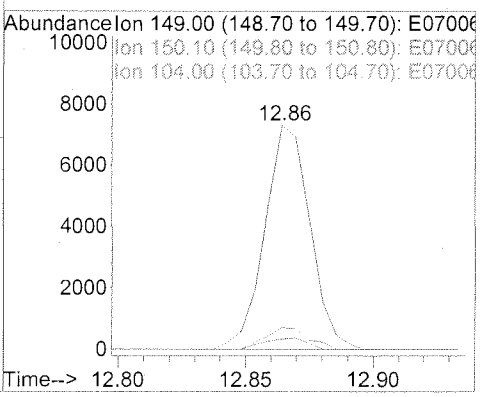


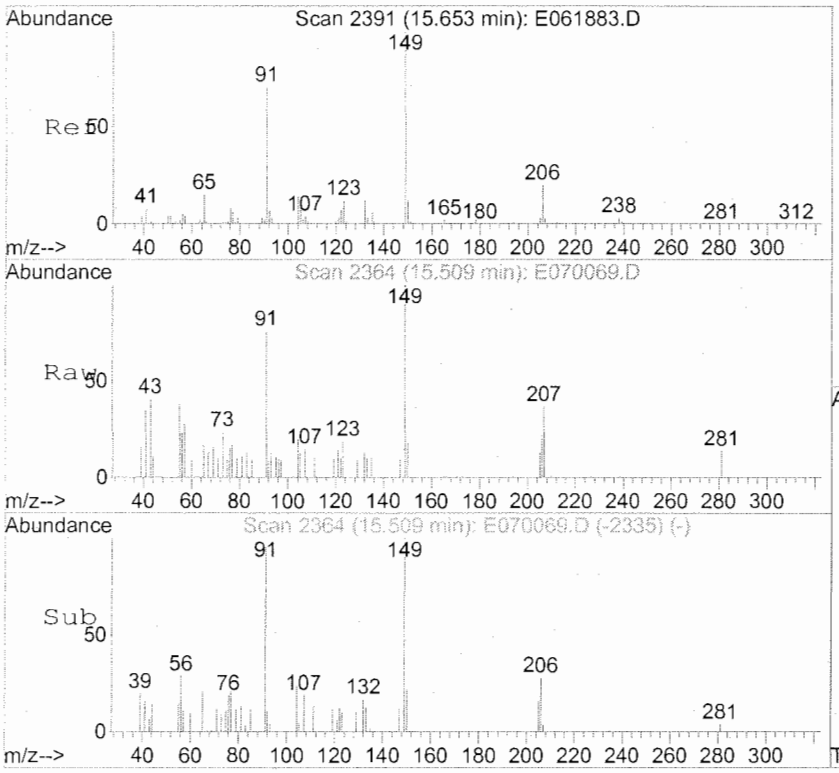


#68
Di-n-butylphthalate
Concen: 0.45 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:149 Resp: 8997

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.6	4.6	7.0#

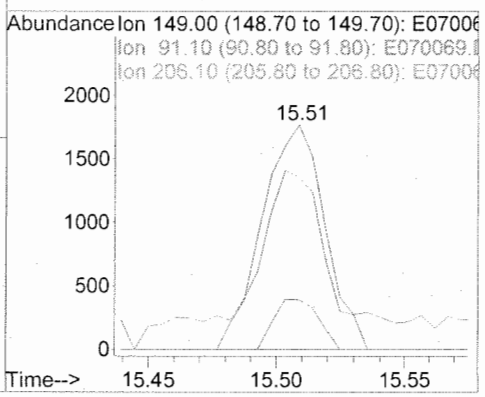


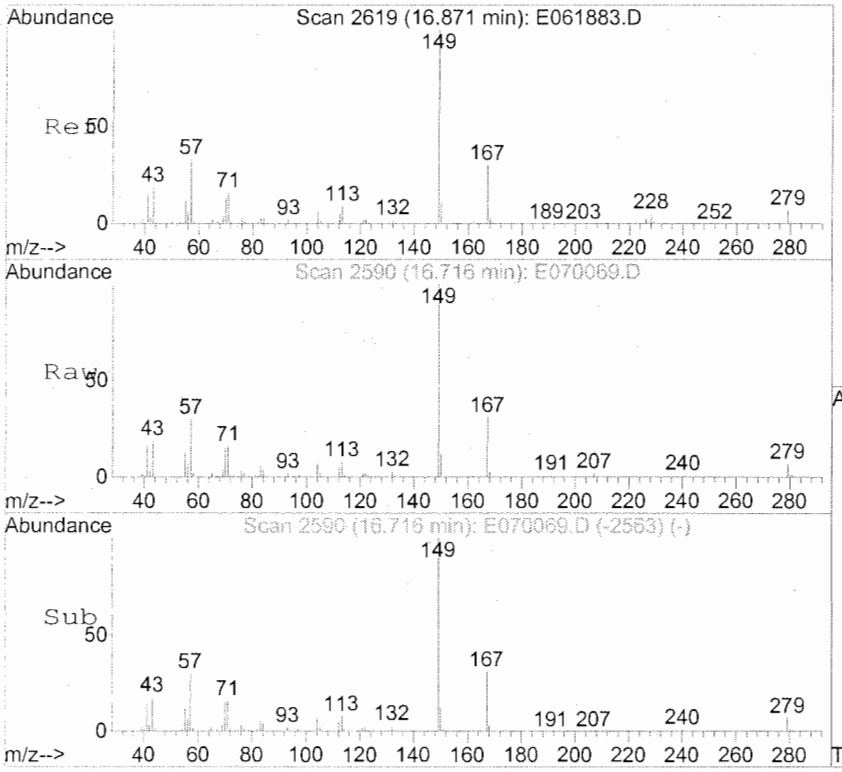


#74
Butylbenzylphthalate
Concen: 0.42 mg/L
RT: 15.51 min Scan# 2364
Delta R.T. -0.14 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:149 Resp: 3002

Ion	Ratio	Lower	Upper
149	100		
91	66.4	59.4	89.0
206	15.8	19.0	28.6#

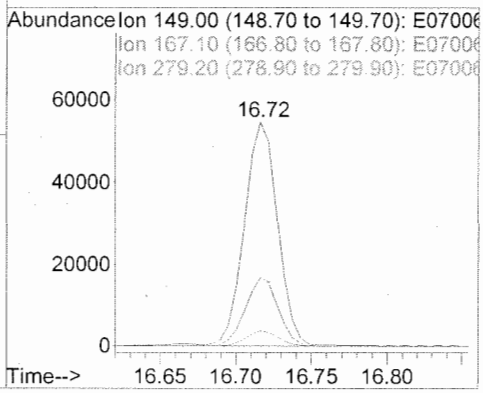


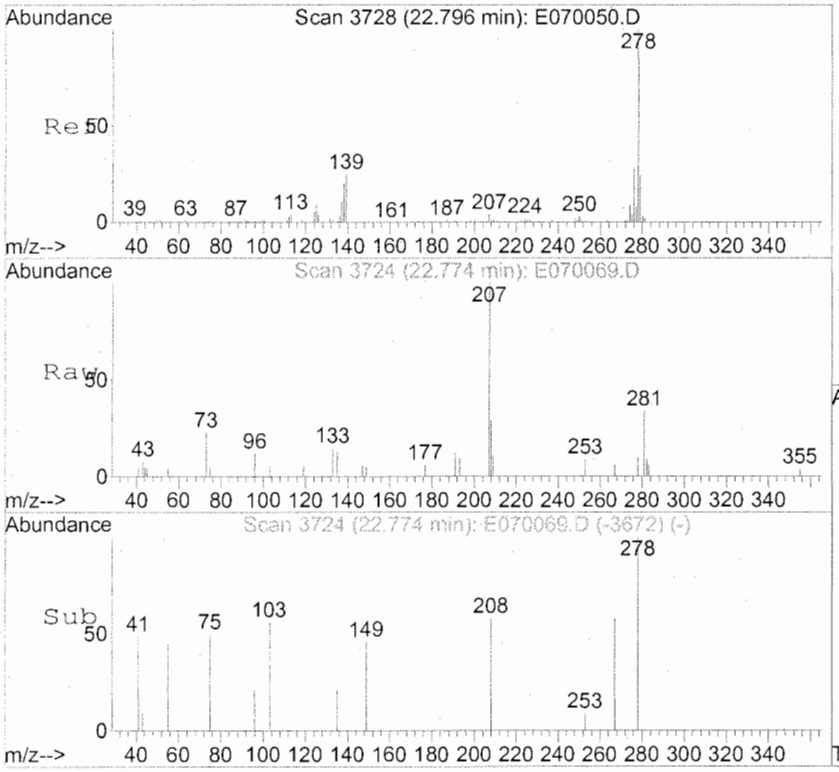


#78
Bis(2-ethylhexyl)phthalate
Concen: 9.14 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.16 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:149 Resp: 84383

Ion	Ratio	Lower	Upper
149	100		
167	30.1	25.0	37.6
279	6.5	6.2	9.2

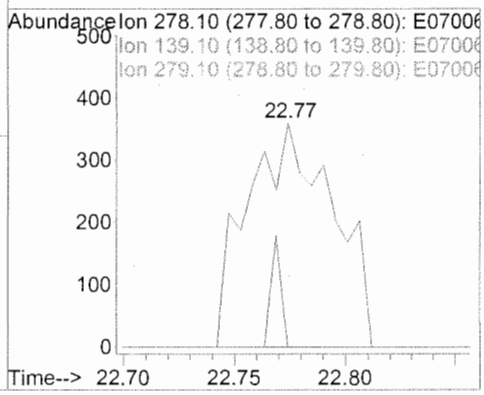


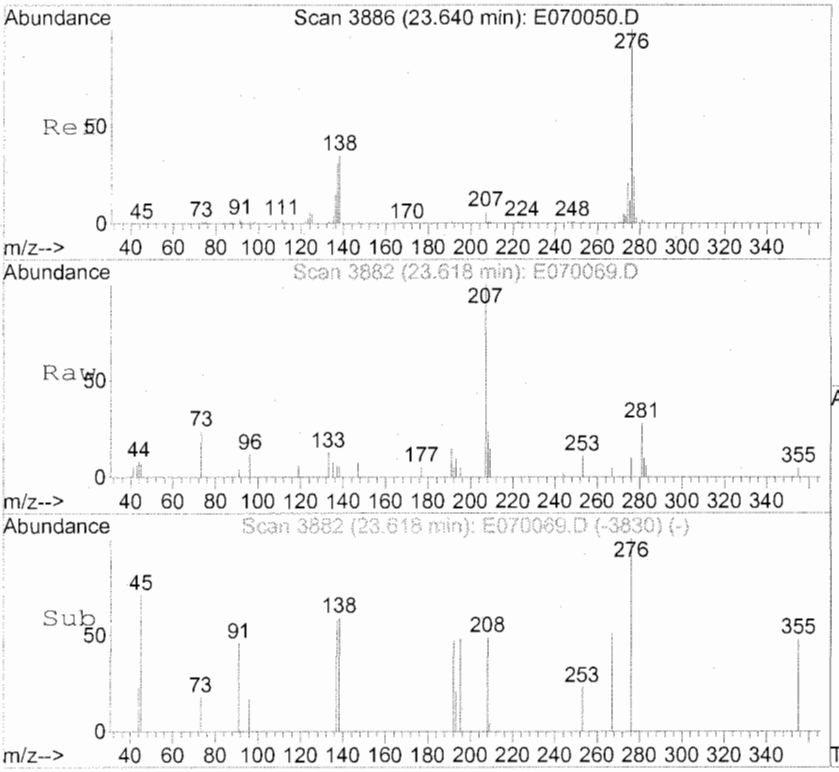


#86
Dibenz(a,h)anthracene
Concen: 0.23 mg/L
RT: 22.77 min Scan# 3724
Delta R.T. -0.02 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:278 Resp: 959

Ion	Ratio	Lower	Upper
278	100		
139	5.9	18.0	27.0#
279	0.0	19.4	29.0#

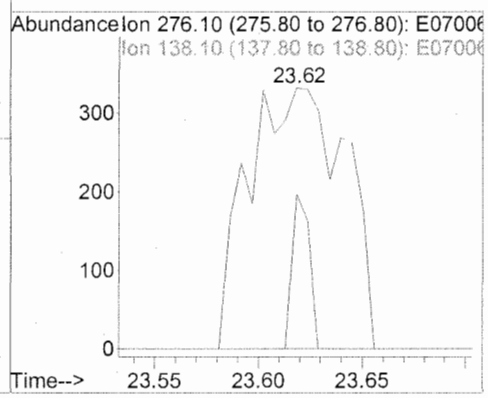




#87
Benzo(g,h,i)perylene
Concen: 0.27 mg/L
RT: 23.62 min Scan# 3882
Delta R.T. -0.02 min
Lab File: E070069.D
Acq: 18 Jan 2007 11:54 pm

Tgt Ion:276 Resp: 1081

Ion	Ratio	Lower	Upper
276	100		
138	10.6	26.2	39.2#



SUPPORT DOCUMENTATION

Liquid-Liquid Extraction, 3520C Red

Semi-Volatile Water

Date	1-15-07
Time	10:45

43644 Batches: P0700056

Client(s): GeoSyntec

Analytical Method(s)

- [X] 8270C
- [ ] MSSIM
- [ ] TCLP, 1311
- [X] 1,4 DIO

Solvent Lots

DCM: 46294 12/27 1/5

Spikes

Surrogate: 14 -EXS- 436-2

Amt. 0.5 ml Exp: 2/17/07

~~Spike~~ CLE 1/15/07 14 -EXS- 418B

~~Amt. 1.0 ml Exp: 1/26/07~~

Spiked by MD Witness CLE

pH Adjustment

- [X] *Initial:* pH 7 — By/date: CLE 1/15
- [X] *Acidic:* pH <2 — By/date: CLE 1/15
- [X] *Basic:* pH >12 — By/date: CLE 1/15 N/A

Cleanups

- [ ] GPC, 3640A — Calib: — By/date: — ID:
- ***Initial KD*** [ ] 1.0ml aliquot saved — By/date: — vol: ml
- [ ] Mercury, 3660B — By/date: — Lot:
- [X] No cleanups

Test Code(s)	Spikes: Surrogate	Spikes: Spike	Amt (1L)	Final KD: H2O bath temp 82 °C; Date & Volume	Relinq. Date
8270C + 1,4 Dio					
Sample ID	X	X	By: CLE	By: A 1/17/07	By: A 1/17/07
SWB1	X		1.0	1.0mL	
SWL1	X	X	↓	↓	↓
SWL2	X	X	↓	↓	↓
00700056-1 07	X		1.05	↓	↓
-2 07	X		↓	↓	↓
-4 07	X		↓	↓	↓
-5 07	X		↓	↓	↓
-6 07	X		↓	↓	↓
-7 07	X		↓	↓	↓
-8 07	X		↓	↓	↓
-9 07	X		↓	↓	↓
-10 07	X		↓	↓	↓
-11 07	X		↓	↓	↓
-12 07	X		↓	↓	↓
-13 07	X		1.0	↓	↓
-14 07	X		1:05	↓	↓
-15 07	X		↓	↓	↓
-16 07	X		↓	↓	↓

CLE 1/15/07

- [ ] Completed ms/msd
- [X] Sample limited, no ms/msd, duplicate LCS

017

Comments:

Spike: 23-MS-78-1

use: 0.5ml Exp: 3/5/07

Also spiked 23-MS-78-3

used 0.5ml Exp: 3/12/07

DW60700129

Peer Review By:

Organic Extractions Dept.
CAS-Redding

APPENDIX

Calscience
Environmental
Laboratories, Inc.

January 25, 2007

Douglas Burnett
Columbia Analytical Services, Inc.
5090 Caterpillar Road
Redding , CA 96003-1412

Subject: **Calscience Work Order No.: 07-01-0807**
Client Reference: D0700056

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/16/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Amanda Porter

Calscience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Columbia Analytical Services, Inc.		Date Received:	01/16/07
5090 Caterpillar Road		Work Order No:	07-01-0807
Redding , CA 96003-1412		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: D0700056			Page 1 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
BLD120-MW-1	**07-01-0807-1**	**01/09/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	320		0.0	1		C19-C20	ND		0.0	1	
C8	300		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	620	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	84	68-140	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
BLD120-MW-6	**07-01-0807-2**	**01/09/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	6.8		0.0	1		C19-C20	41		0.0	1	
C8	1.1		0.0	1		C21-C22	62		0.0	1	
C9-C10	3.2		0.0	1		C23-C24	54		0.0	1	
C11-C12	3.3		0.0	1		C25-C28	78		0.0	1	
C13-C14	6.4		0.0	1		C29-C32	33		0.0	1	
C15-C16	19		0.0	1		C33-C36	ND		0.0	1	
C17-C18	34		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	68-140	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
BLD120-MW-2	**07-01-0807-3**	**01/09/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	32		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	12		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Columbia Analytical Services, Inc.		Date Received:	01/16/07
5090 Caterpillar Road		Work Order No:	07-01-0807
Redding , CA 96003-1412		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: D0700056			Page 2 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
BLD120-MW-3	**07-01-0807-4**	**01/09/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	4.9		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	13		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	68-140	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
BLD120-MW-4	**07-01-0807-5**	**01/10/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	106	68-140	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
BLD120-MW-5	**07-01-0807-6**	**01/10/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Columbia Analytical Services, Inc.		Date Received:	01/16/07
5090 Caterpillar Road		Work Order No:	07-01-0807
Redding , CA 96003-1412		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: D0700056			Page 3 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
BLD102-MW-4	**07-01-0807-7**	**01/10/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	68-140	

MWCL-1	07-01-0807-8	01/10/07	Aqueous	01/16/07	01/17/07	070116B15

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	68-140	

MWCL-2	07-01-0807-9	01/11/07	Aqueous	01/16/07	01/17/07	070116B15

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Columbia Analytical Services, Inc.		Date Received:	01/16/07
5090 Caterpillar Road		Work Order No:	07-01-0807
Redding , CA 96003-1412		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: D0700056			Page 4 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MWCL-3	**07-01-0807-10**	**01/11/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	68-140	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MWCL-4	**07-01-0807-11**	**01/11/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	68-140	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MWCL-6	**07-01-0807-12**	**01/11/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	117	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Columbia Analytical Services, Inc.		Date Received:	01/16/07
5090 Caterpillar Road		Work Order No:	07-01-0807
Redding , CA 96003-1412		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: D0700056			Page 5 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MWCL-7	**07-01-0807-13**	**01/12/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	68-140	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MWCL-5	**07-01-0807-14**	**01/12/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	68-140	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MWCL-8	**07-01-0807-15**	**01/12/07**	**Aqueous**	**01/16/07**	**01/17/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C7	ND		0.0	1		C19-C20	ND		0.0	1	
C8	ND		0.0	1		C21-C22	ND		0.0	1	
C9-C10	ND		0.0	1		C23-C24	ND		0.0	1	
C11-C12	ND		0.0	1		C25-C28	ND		0.0	1	
C13-C14	ND		0.0	1		C29-C32	ND		0.0	1	
C15-C16	ND		0.0	1		C33-C36	ND		0.0	1	
C17-C18	ND		0.0	1		C7-C36 Total	ND	500	430	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Columbia Analytical Services, Inc.		Date Received:	01/16/07
5090 Caterpillar Road		Work Order No:	07-01-0807
Redding , CA 96003-1412		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: D0700056			Page 6 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-308-146**	**N/A**	**Aqueous**	**01/16/07**	**01/16/07**	**070116B15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	
Surrogates:	**REC (%)**	**Control Limits**			**Qual**
Decachlorobiphenyl	94	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Columbia Analytical Services, Inc.		Date Received:	N/A
5090 Caterpillar Road		Work Order No:	07-01-0807
Redding , CA 96003-1412		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: D0700056

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-146	**Aqueous**	**GC 6**	**01/16/07**	**01/16/07**	**070116B15**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	86	89	75-117	3	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-01-0807

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Columbia Analytical Services, Inc. Chain of Custody

5090 Caterpillar Road • Redding, CA 96003 • 530-244-5227 • FAX 530-244-4109

CAS Contact: Douglas Burnett

0807 (1/2)

Project Number: D0700056
Project Manager: Douglas Burnett

	Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	SVO_FUELSCAN 8015B
1	D0700056-001	BLD120-MW-1		Water	01/09/07	0959	Calsci. Env. Lab	
2	D0700056-002	BLD120-MW-6		Water	01/09/07	1204	Calsci. Env. Lab	
3	D0700056-004	BLD120-MW-2		Water	01/09/07	1541	Calsci. Env. Lab	
4	D0700056-005	BLD120-MW-3		Water	01/09/07	1704	Calsci. Env. Lab	
5	D0700056-006	BLD120-MW-4		Water	01/10/07	1107	Calsci. Env. Lab	
6	D0700056-007	BLD120-MW-5		Water	01/10/07	1336	Calsci. Env. Lab	
7	D0700056-008	BLD102-MW-4		Water	01/10/07	1509	Calsci. Env. Lab	
8	D0700056-009	MWCL-1		Water	01/10/07	1732	Calsci. Env. Lab	
9	D0700056-010	MWCL-2		Water	01/11/07	0910	Calsci. Env. Lab	
10	D0700056-011	MWCL-3		Water	01/11/07	1230	Calsci. Env. Lab	
11	D0700056-012	MWCL-4		Water	01/11/07	1403	Calsci. Env. Lab	
12	D0700056-013	MWCL-6		Water	01/11/07	1539	Calsci. Env. Lab	

Special Instructions/Comments

Turnaround Requirements

____RUSH (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

____ **STANDARD**

Requested FAX Date: _____

Requested Report Date: 01/27/07

Report Requirements

____ I. Results Only

____ II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

PQL/MDL/J Y

EDD Y GeoSyntec San Diego

Invoice Information

PO# D0700056

Bill to

Relinquished By: UPS

Received By: 01.16.07 1000

Airbill Number: _____

1000

Columbia Analytical Services, Inc. Chain of Custody

5090 Caterpillar Road • Redding, CA 96003 • 530-244-5227 • FAX 530-244-4109

CAS Contact: Douglas Burnett

0807 (2/2)

Project Number: D0700056
Project Manager: Douglas Burnett

	Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	SVO_FUELSCAN 8015B
13	D0700056-014	MWCL-7		Water	01/12/07	1025	Calsci. Env. Lab	
14	D0700056-015	MWCL-5		Water	01/12/07	1457	Calsci. Env. Lab	
15	D0700056-016	MWCL-8		Water	01/12/07	1640	Calsci. Env. Lab	

Test Comments

SVO_FUELSCAN - 8015B D0700056-001,2,4,5,6,7,8,9,10,11,12,13,14,15, C6-C36
16

Folder Comments:

Metals: Units = mg/L; Report "J" flag for hits between MDL & RL

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
	____RUSH (Surcharges Apply) **PLEASE CIRCLE WORK DAYS** 1 2 3 4 5 ____STANDARD Requested FAX Date: _____ Requested Report Date: 01/27/07	____I. Results Only ____II. Results + QC Summaries ____III. Results + QC and Calibration Summaries ____IV. Data Validation Report with Raw Data PQL/MDL/J Y EDD Y GeoSyntec San Diego	PO# D0700056 Bill to

Relinquished By: UPS Received By: 01.12.07 1000 Airbill Number: _____

1001

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 01 - 0867

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Columbia **DATE:** 01-16-07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
3.3 °C IR thermometer.
_____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: [signature]

SAMPLE CONDITION:

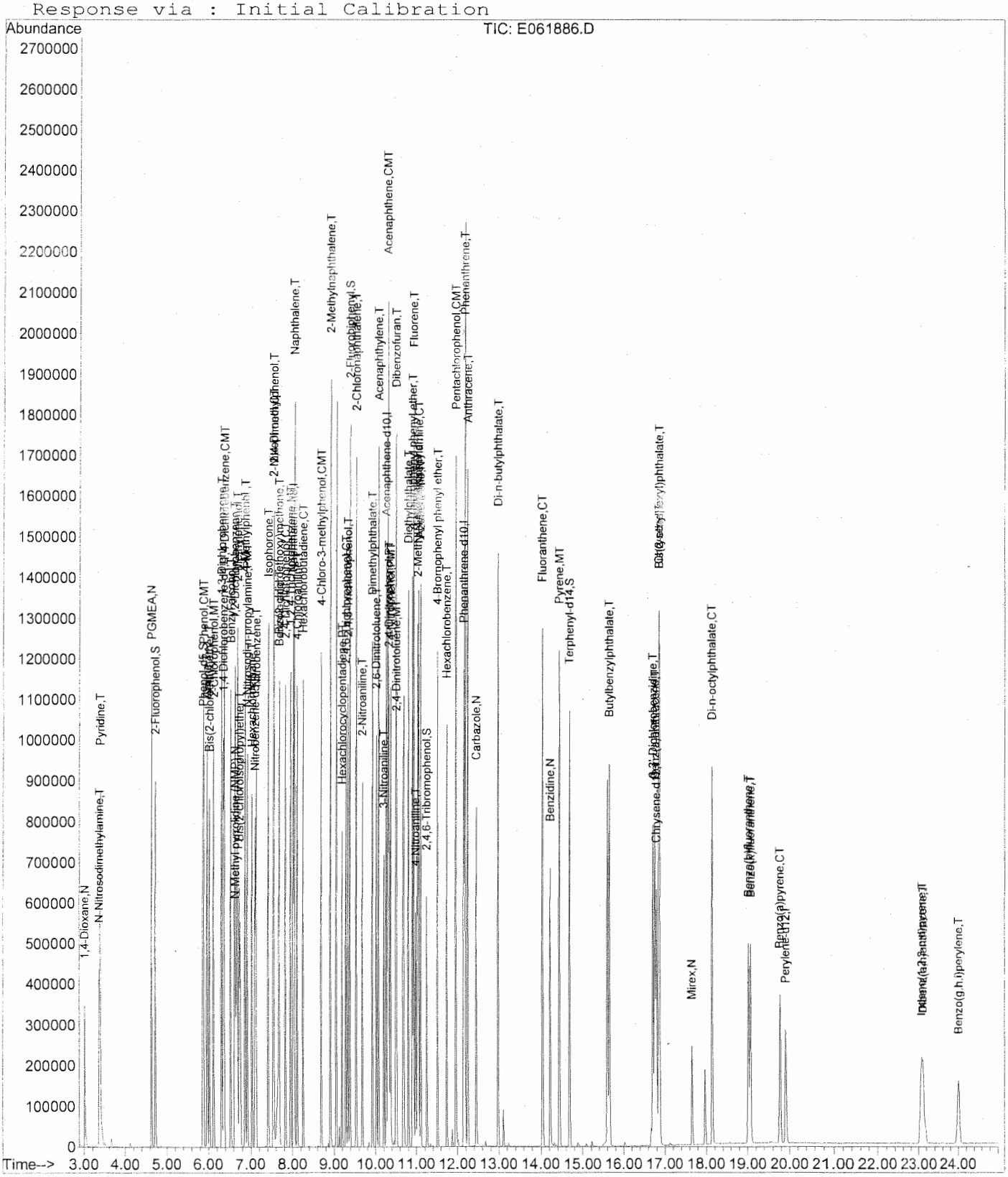
	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:54 2006 Quant Results File: BA061226.RES

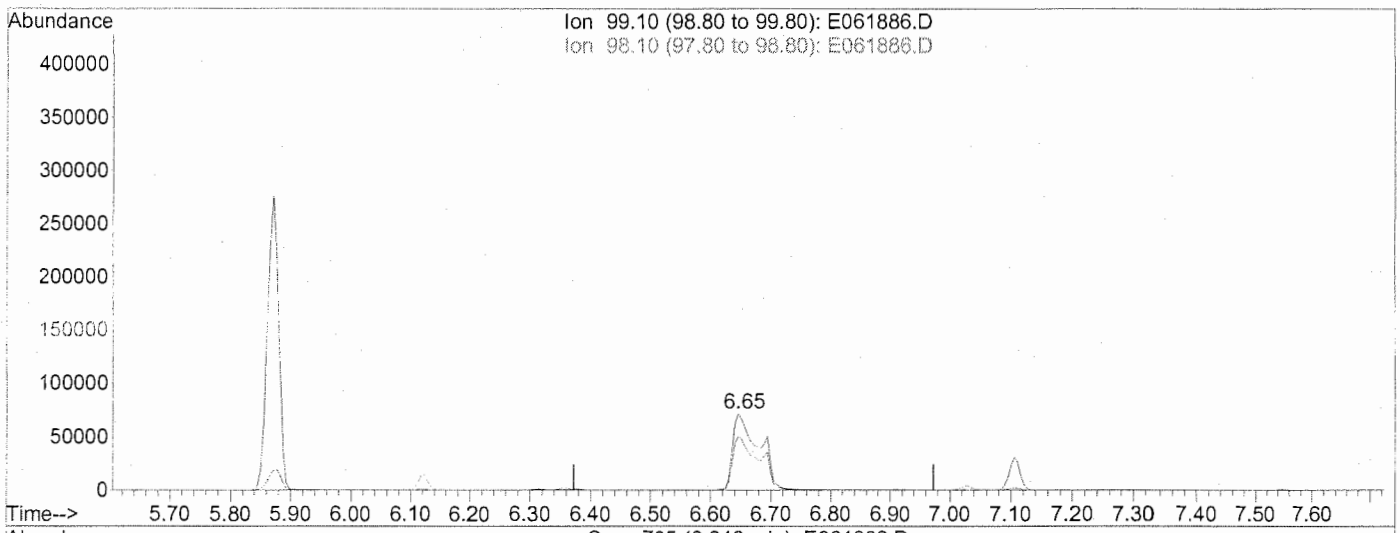
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

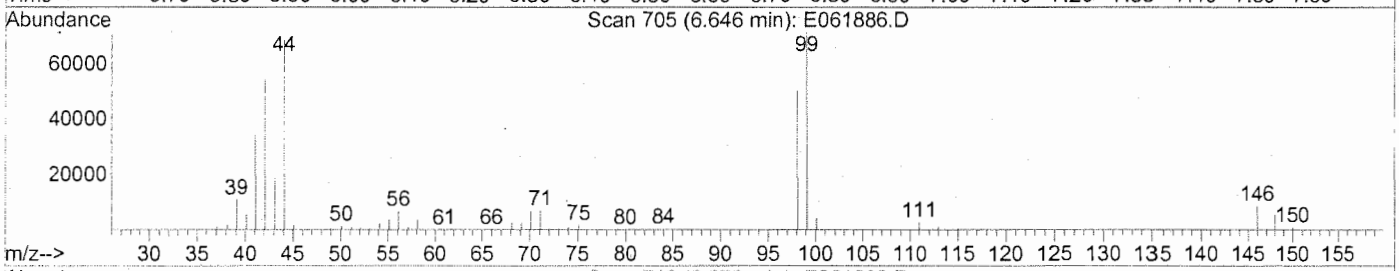


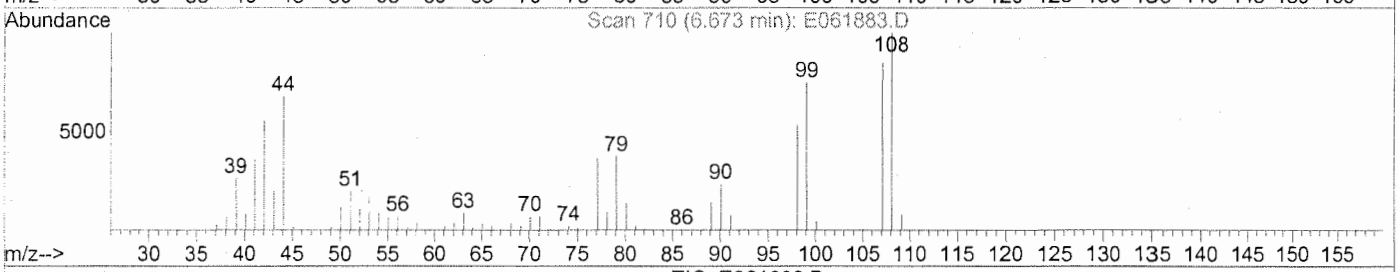
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:54 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061886.D

(16) N-Methyl pyrrolidine (NMP) (N)

6.65min 50.81mg/L m

response 213982

Ion	Exp%	Act%
99.10	100	100
98.10	70.50	55.62#
0.00	0.00	0.00
0.00	0.00	0.00

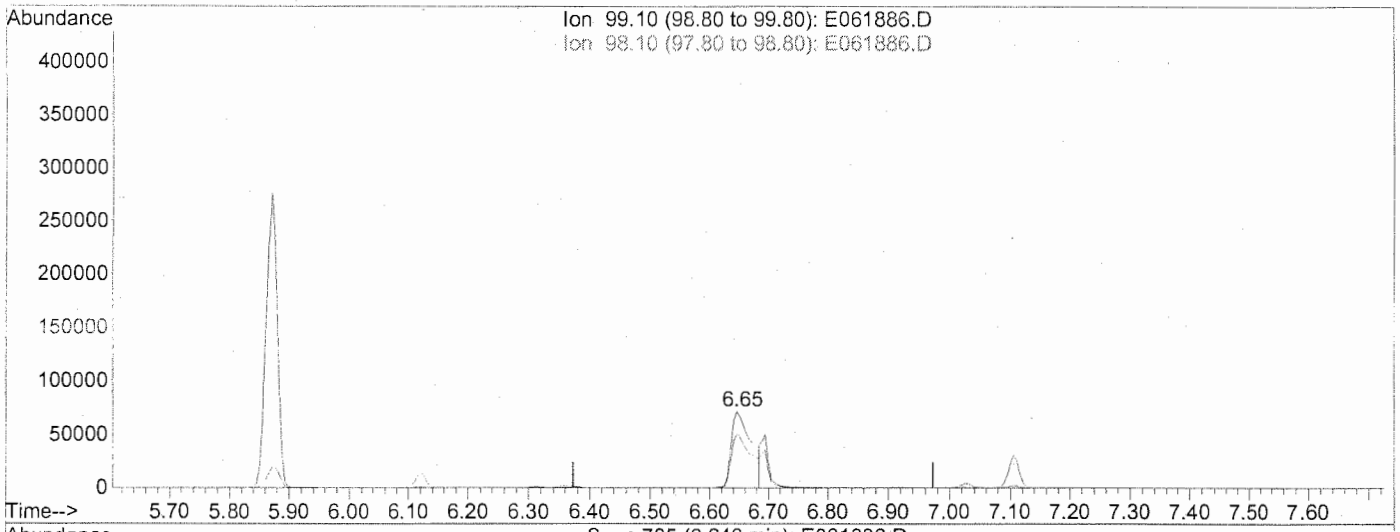
sp 1.8 pk

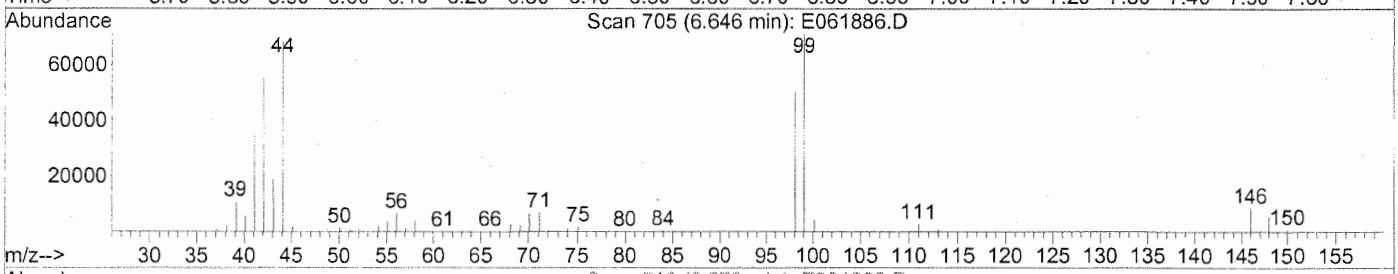
12/27/06

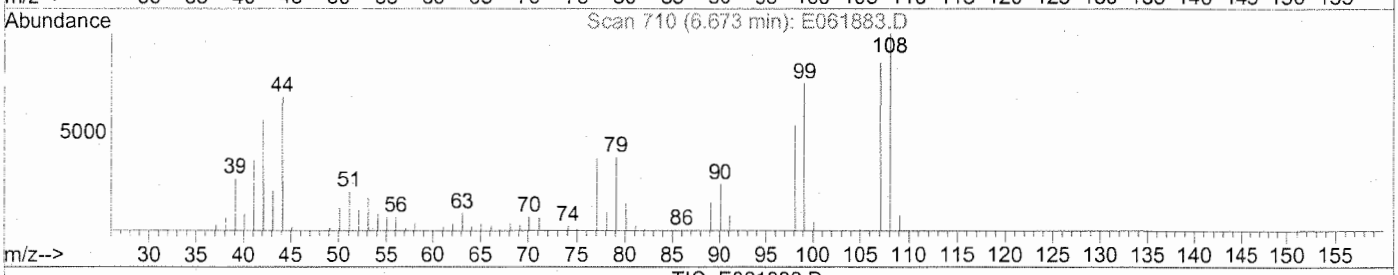
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:53 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061886.D

(16) N-Methyl pyrrolidine (NMP) (N)

6.65min 40.06mg/L

response 168742

Ion	Exp%	Act%
99.10	100	100
98.10	70.50	70.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:53:42 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	180197	40.00	mg/L	0.00
22) Naphthalene-d8	8.01	136	728348	40.00	mg/L	0.00
37) Acenaphthene-d10	10.26	164	402334	40.00	mg/L	0.00
57) Phenanthrene-d10	12.15	188	621200	40.00	mg/L	0.00
70) Chrysene-d12	16.80	240	371626	40.00	mg/L	0.01
80) Perylene-d12	19.92	264	214998	40.00	mg/L	0.01
System Monitoring Compounds						
6) 2-Fluorophenol	4.73	112	276424	48.18	mg/L	0.00
Spiked Amount 50.000			Recovery =	96.36%		
7) Phenol-d5	5.87	99	361574	48.63	mg/L	0.00
Spiked Amount 50.000			Recovery =	97.26%		
23) Nitrobenzene-d5	7.11	82	308365	50.11	mg/L	0.00
Spiked Amount 50.000			Recovery =	100.22%		
41) 2-Fluorobiphenyl	9.39	172	619355	48.82	mg/L	0.00
Spiked Amount 50.000			Recovery =	97.64%		
61) 2,4,6-Tribromophenol	11.26	330	74112	49.74	mg/L	0.00
Spiked Amount 50.000			Recovery =	99.48%		
73) Terphenyl-d14	14.69	244	504285	48.55	mg/L	0.00
Spiked Amount 50.000			Recovery =	97.10%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	125675	47.62	mg/L #	59
3) N-Nitrosodimethylamine	3.37	42	175675	51.20	mg/L	89
4) Pyridine	3.39	79	332031	48.48	mg/L #	46
5) PGMEA	4.64	43	600554	48.42	mg/L #	87
8) Phenol	5.89	94	390911	49.90	mg/L	93
9) Aniline	5.97	93	457182	50.40	mg/L	99
10) Bis(2-chloroethyl)ether	6.03	93	319124	49.51	mg/L	91
11) 2-Chlorophenol	6.12	128	328701	49.50	mg/L	98
12) 1,3-Dichlorobenzene	6.31	146	362129	49.83	mg/L	99
13) 1,4-Dichlorobenzene	6.38	146	369441	49.78	mg/L	100
14) Benzyl alcohol	6.53	108	212727	50.24	mg/L #	77
15) 1,2-Dichlorobenzene	6.62	146	348099	50.28	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.65	99	168742	40.06	mg/L	100
17) 2-Methylphenol	6.69	108	296529	50.89	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.73	45	513709	41.79	mg/L #	85
19) 4-Methylphenol	6.86	107	380836	51.62	mg/L #	92
20) N-Nitrosodi-n-propylamine	6.92	70	225458	51.76	mg/L #	76
21) Hexachloroethane	7.03	117	136884	50.14	mg/L #	78
24) Nitrobenzene	7.13	77	327046	50.57	mg/L #	78
25) Isophorone	7.42	82	617087	53.21	mg/L	94
26) 2-Nitrophenol	7.54	139	168059	46.14	mg/L #	85
27) 2,4-Dimethylphenol	7.55	122	289242	49.03	mg/L #	83
28) Benzoic acid	7.69	122	191562	49.36	mg/L #	81
29) Bis(2-chloroethoxy)methane	7.68	93	335457	46.04	mg/L #	87
30) 2,4-Dichlorophenol	7.83	162	254370	50.90	mg/L	97
31) 1,2,4-Trichlorobenzene	7.95	180	265530	49.33	mg/L	99
32) Naphthalene	8.04	128	949809	49.78	mg/L	100
33) 4-Chloroaniline	8.11	127	375569	56.31	mg/L	96
34) Hexachlorobutadiene	8.25	225	144013	50.87	mg/L	99
35) 4-Chloro-3-methylphenol	8.69	107	262431	51.40	mg/L	92
36) 2-Methylnaphthalene	8.92	142	639830	49.68	mg/L	99
38) Hexachlorocyclopentadiene	9.19	237	135974	42.48	mg/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:53:42 2006 Quant Results File: BA061226.RES

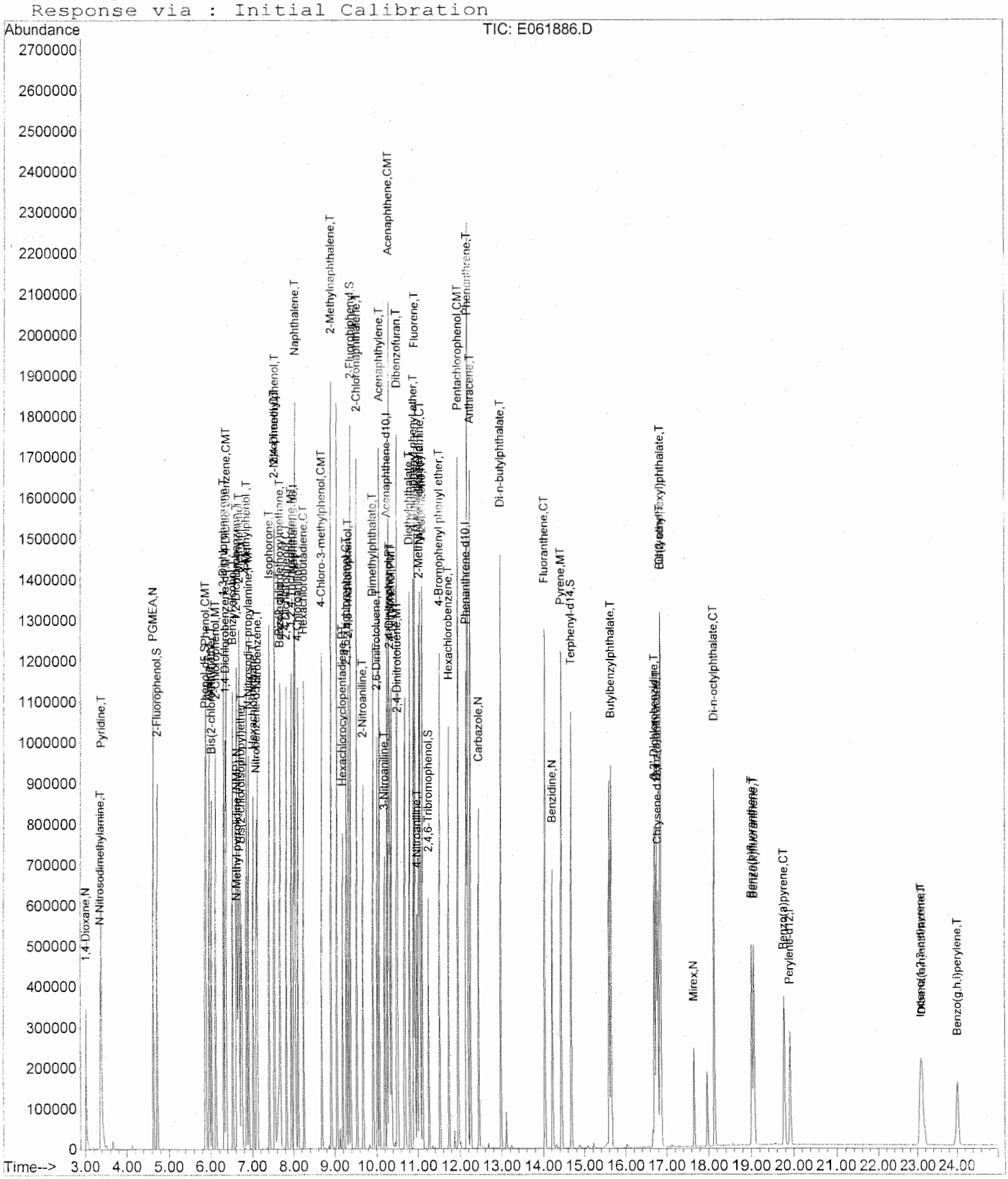
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	168783	50.93	mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	185233	51.58	mg/L		97
42)	2-Chloronaphthalene	9.54	162	564990	49.82	mg/L		98
43)	2-Nitroaniline	9.69	65	185706	53.28	mg/L		93
44)	Dimethylphthalate	9.93	163	633622	50.94	mg/L		96
45)	Acenaphthylene	10.08	152	858427	46.56	mg/L		100
46)	2,6-Dinitrotoluene	10.02	165	157615	54.20	mg/L		93
47)	3-Nitroaniline	10.21	138	146236	56.14	mg/L		97
48)	Acenaphthene	10.31	154	648627	53.36	mg/L		98
49)	2,4-Dinitrophenol	10.33	184	190419	109.68	mg/L	#	1
50)	4-Nitrophenol	10.37	109	158307	111.09	mg/L	#	42
51)	Dibenzofuran	10.50	168	784969	49.41	mg/L		95
52)	2,4-Dinitrotoluene	10.52	165	194479	52.34	mg/L	#	99
53)	Fluorene	10.94	166	651741	50.41	mg/L		99
54)	Diethylphthalate	10.81	149	639610	51.05	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.91	204	282500	50.60	mg/L		95
56)	4-Nitroaniline	10.99	138	136816	57.07	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	11.04	198	238123	114.92	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.06	169	402668	45.40	mg/L		91
60)	Azobenzene	11.11	77	630975	49.69	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.52	248	164779	50.50	mg/L		99
63)	Hexachlorobenzene	11.74	284	170196	49.55	mg/L		96
64)	Pentachlorophenol	11.96	266	243361	106.90	mg/L		98
65)	Phenanthrene	12.19	178	843371	48.50	mg/L		100
66)	Anthracene	12.25	178	860692	50.59	mg/L		99
67)	Carbazole	12.46	167	479910	53.15	mg/L		99
68)	Di-n-butylphthalate	12.98	149	1009143	53.02	mg/L		99
69)	Fluoranthene	14.04	202	793371	53.55	mg/L	#	94
71)	Benzidine	14.23	184	406231	86.41	mg/L	#	97
72)	Pyrene	14.45	202	776811	48.37	mg/L		100
74)	Butylbenzylphthalate	15.66	149	372003	51.47	mg/L		94
75)	3,3'-Dichlorobenzidine	16.72	252	290474	104.61	mg/L	#	98
76)	Benz(a)anthracene	16.76	228	561596	52.02	mg/L		99
77)	Chrysene	16.85	228	510884	50.42	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.87	149	496299	52.91	mg/L		98
79)	Mirex	17.66	272	50528	25.03	mg/L		100
81)	Di-n-octylphthalate	18.14	149	736000	53.09	mg/L		100
82)	Benzo(b)fluoranthene	19.02	252	381989	48.99	mg/L	#	95
83)	Benzo(k)fluoranthene	19.08	252	370990	49.09	mg/L	#	94
84)	Benzo(a)pyrene	19.78	252	321083	52.27	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.08	276	271480	54.68	mg/L	#	55
86)	Dibenz(a,h)anthracene	23.12	278	217917	50.97	mg/L	#	92
87)	Benzo(g,h,i)perylene	24.01	276	215195	52.55	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:53 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Continuing Calibration Data

Injection Log

Directory: C:\MSDCHEM\1\DATA\E070118

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E070047.d	1.	STUN0118		18 Jan 2007 12:01
2	2	E070048.d	1.	25PPM 8270 CCV		18 Jan 2007 12:17
3	3	E070049.d	1.	70PPM 8270 CCV		18 Jan 2007 12:50
4	3	E070050.d	1.	70PPM 8270 CCV		18 Jan 2007 13:35
5	4	E070051.d	1.	50PPM 8270 CCV		18 Jan 2007 14:13
6	5	E070052.d	1.	MB 8270W 1/15/07		18 Jan 2007 14:45
7	6	E070053.d	1.	LCS 8270W 1/15/07		18 Jan 2007 15:17
8	7	E070054.d	1.	LCSD 8270W 1/15/07		18 Jan 2007 15:50
9	8	E070055.d	1.	D0700056-001 8270W 1/15/07		18 Jan 2007 16:22
10	9	E070056.d	1.	D0700056-002 8270W 1/15/07		18 Jan 2007 16:54
11	10	E070057.d	1.	D0700056-004 8270W 1/15/07		18 Jan 2007 17:27
12	11	E070058.d	1.	D0700056-005 8270W 1/15/07		18 Jan 2007 17:59
13	12	E070059.d	1.	D0700056-006 8270W 1/15/07		18 Jan 2007 18:31
14	13	E070060.d	1.	D0700056-007 8270W 1/15/07		18 Jan 2007 19:04
15	14	E070061.d	1.	D0700056-008 8270W 1/15/07		18 Jan 2007 19:36
16	15	E070062.d	1.	D0700056-009 8270W 1/15/07		18 Jan 2007 20:08
17	16	E070063.d	1.	D0700056-010 8270W 1/15/07		18 Jan 2007 20:40
18	17	E070064.d	1.	D0700056-011 8270W 1/15/07		18 Jan 2007 21:13
19	18	E070065.d	1.	D0700056-012 8270W 1/15/07		18 Jan 2007 21:45
20	19	E070066.d	1.	D0700056-013 8270W 1/15/07		18 Jan 2007 22:17
21	20	E070067.d	1.	D0700056-014 8270W 1/15/07		18 Jan 2007 22:50
22	21	E070068.d	1.	D0700056-015 8270W 1/15/07		18 Jan 2007 23:22
23	22	E070069.d	1.	D0700056-016 8270W 1/15/07		18 Jan 2007 23:54

DW60700130

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/19/2007

Analysis Lot:	DWG0700130	**Prep Lot:**		**Report Group:**	
Analysis Method:	DFTPP	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\TUNE.M	**Calibration ID:**	CAL1241
Title:	DFTPP Tuning Criteria	**Report List ID:**	LJ1247
Tune Ref:		**Method ID:**	MJ364
MB Ref:		**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 12:01	**Quant Date:**		**Vial:**	1
Run Type:	DFTPP			**Dilution:**	1.0
Lab ID:	DWG0700130-1			**Soln Conc. Units:**	

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	60	49.9	6631	Pass
68	69	0	2	0.9	54	Pass
69	198	0	100	45.4	6031	Pass
70	69	0	2	0.0	0	Pass
127	198	40	60	56.4	7485	Pass
197	198	0	1	0.5	61	Pass
198	198	100	100	100.0	13283	Pass
199	198	5	9	6.5	867	Pass
275	198	10	30	22.3	2959	Pass
365	198	1	100	2.5	337	Pass
441	443	0	100	72.1	1523	Pass
442	198	40	100	79.0	10491	Pass
443	442	17	23	20.1	2113	Pass

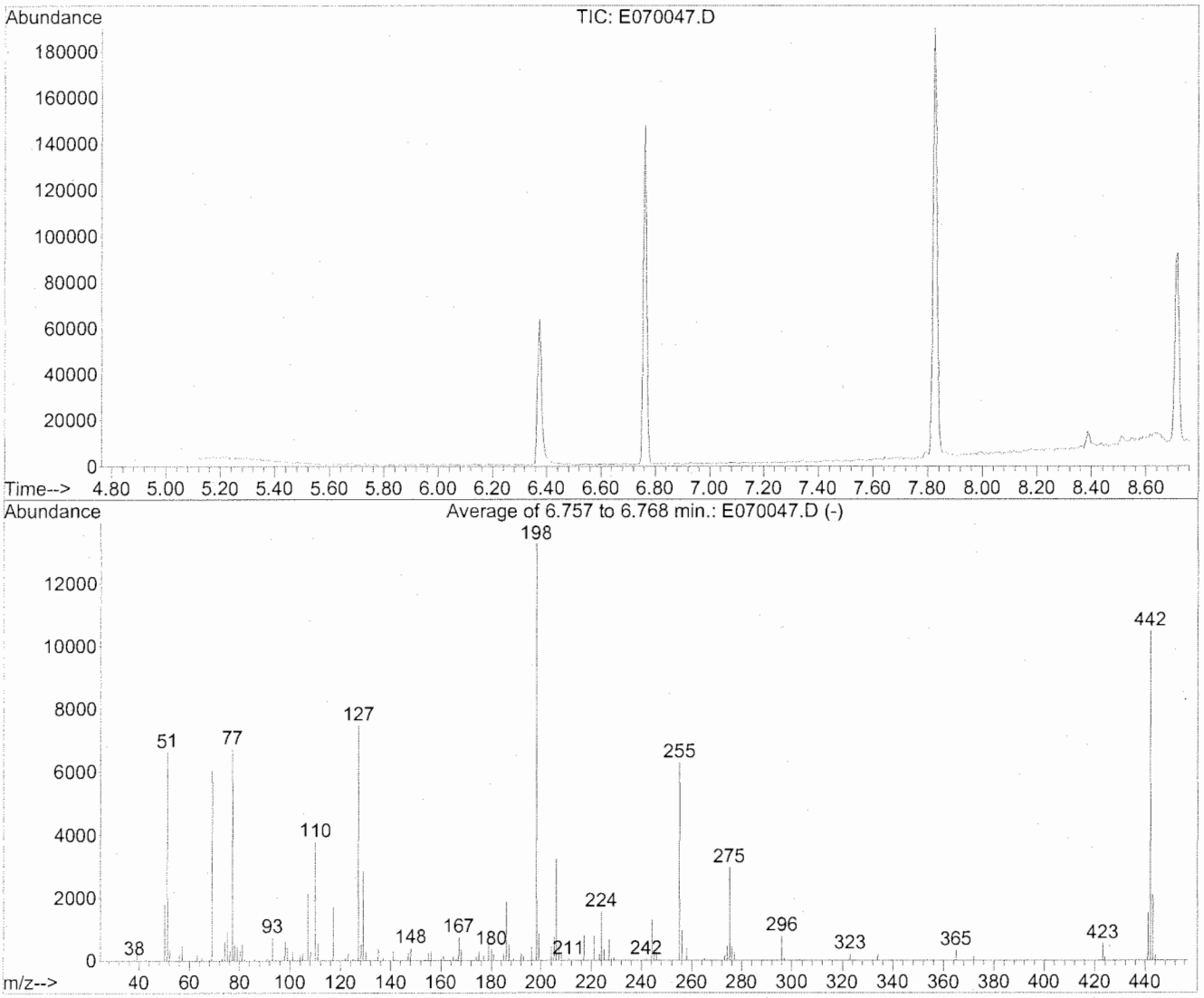
U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

DFTPP

Data File : C:\MSDchem\1\DATA\E070118\E070047.D Vial: 1
Acq On : 18 Jan 2007 12:01 pm Operator: GJ
Sample : STUN0118 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method



AutoFind: Scans 314, 315, 316; Background Corrected with Scan 302

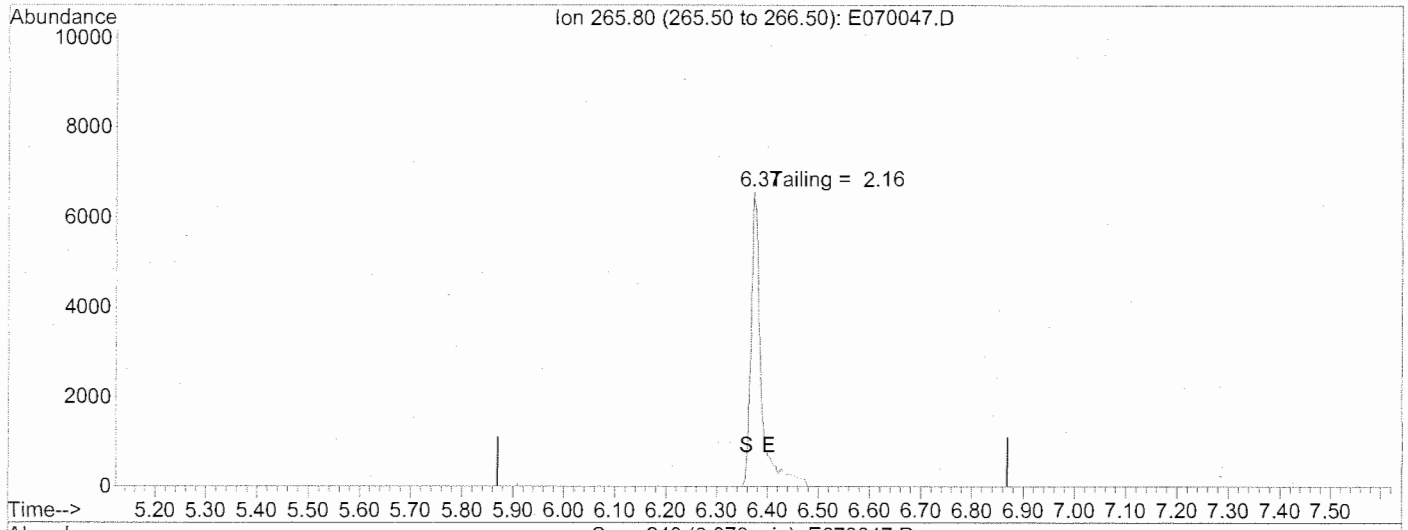
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.9	6631	PASS
68	69	0.00	2	0.9	54	PASS
69	198	0.00	100	45.4	6031	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	56.4	7485	PASS
197	198	0.00	1	0.5	61	PASS
198	198	100	100	100.0	13283	PASS
199	198	5	9	6.5	867	PASS
275	198	10	30	22.3	2959	PASS
365	198	1	100	2.5	337	PASS
441	443	0.01	100	72.1	1523	PASS
442	198	40	100	79.0	10491	PASS
443	442	17	23	20.1	2113	PASS

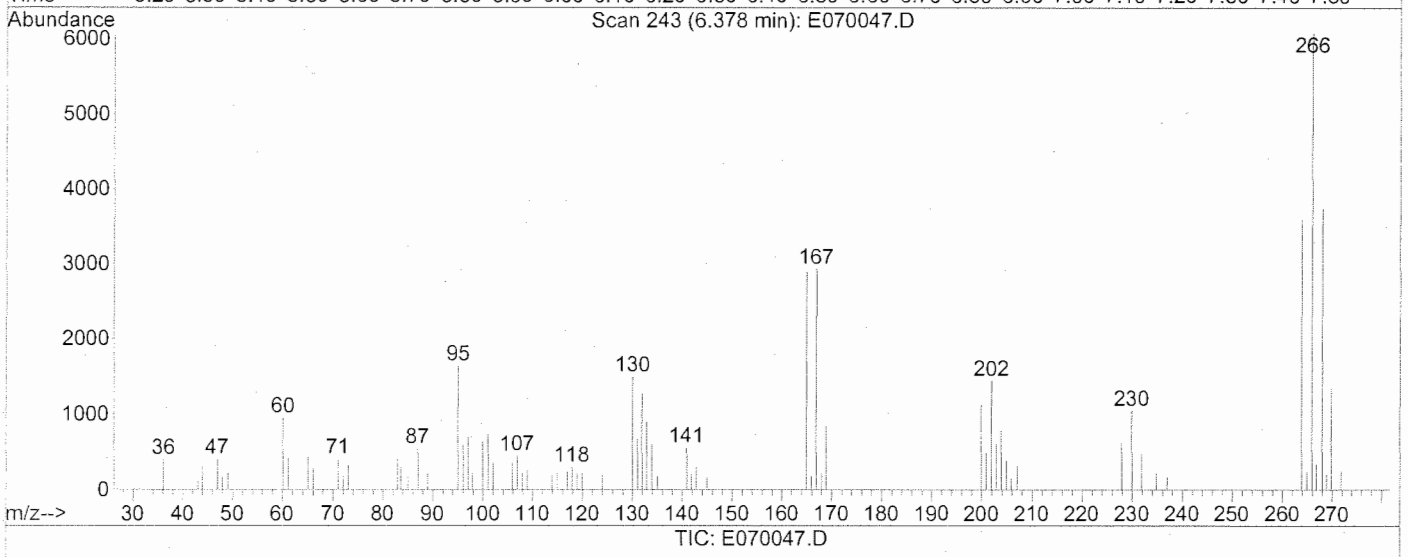
E070047.D TUNE.M Thu Jan 18 12:10:44 2007 1/19/07

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070118\E070047.D Vial: 1
Acq On : 18 Jan 2007 12:01 pm Operator: GJ
Sample : STUN0118 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Jan 18 14:44 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E070047.D

(1) Pentachlorophenol

6.38min 0.00

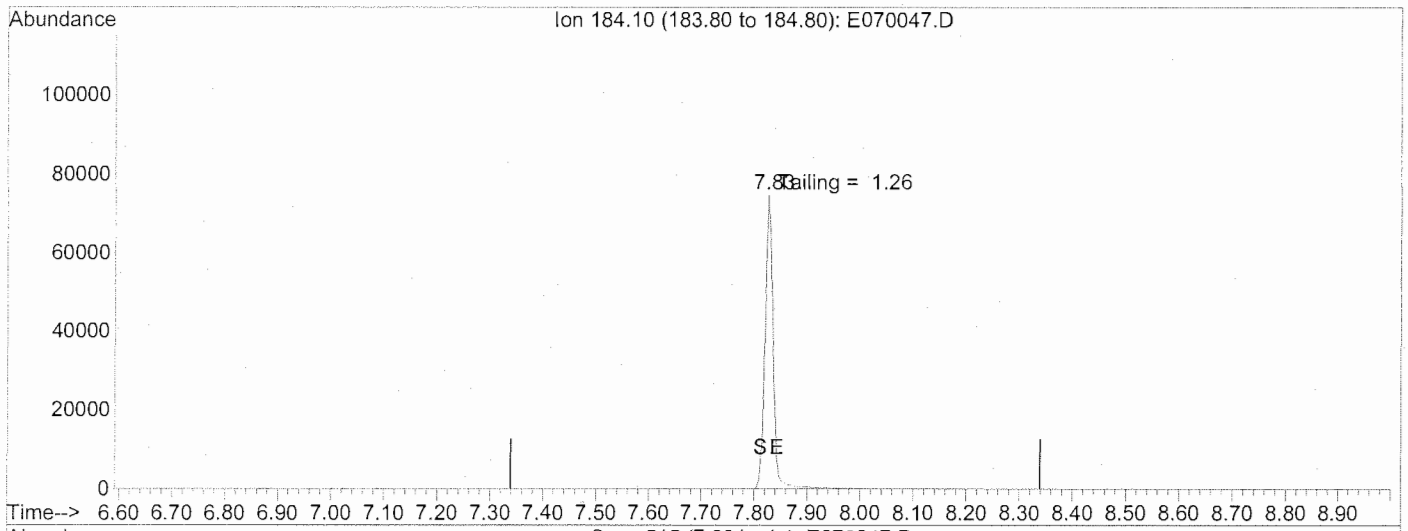
response 91058

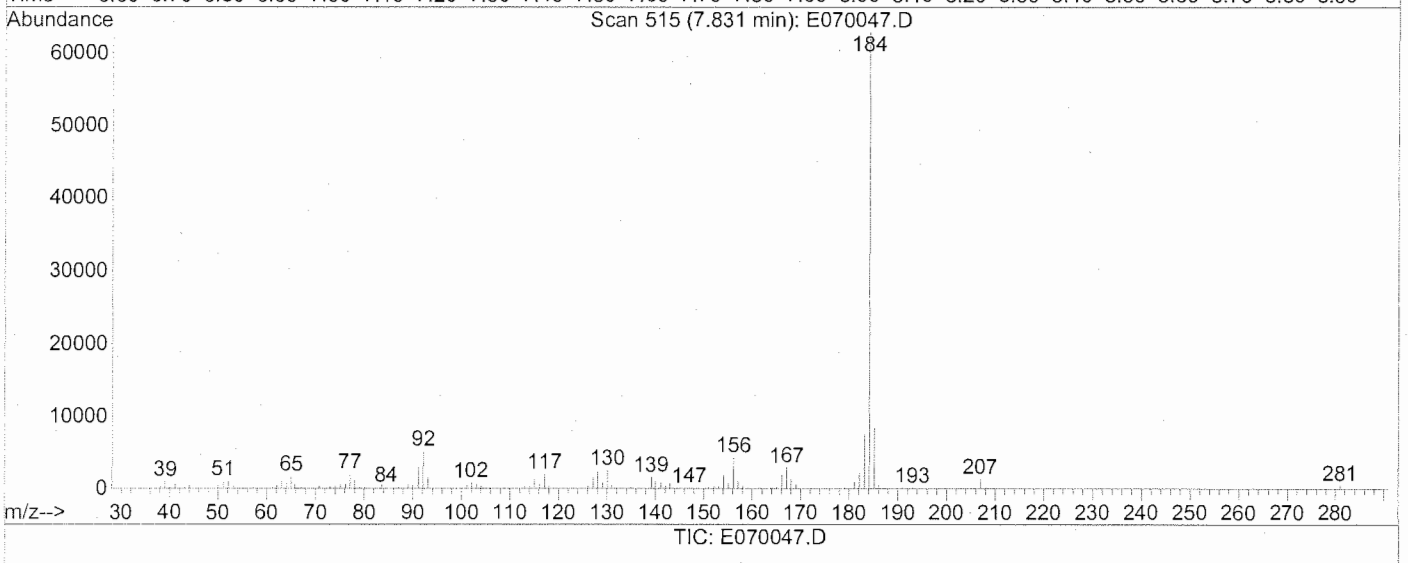
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070118\E070047.D Vial: 1
Acq On : 18 Jan 2007 12:01 pm Operator: GJ
Sample : STUN0118 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Jan 18 14:44 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E070047.D

(2) Benzidine

7.83min 0.00

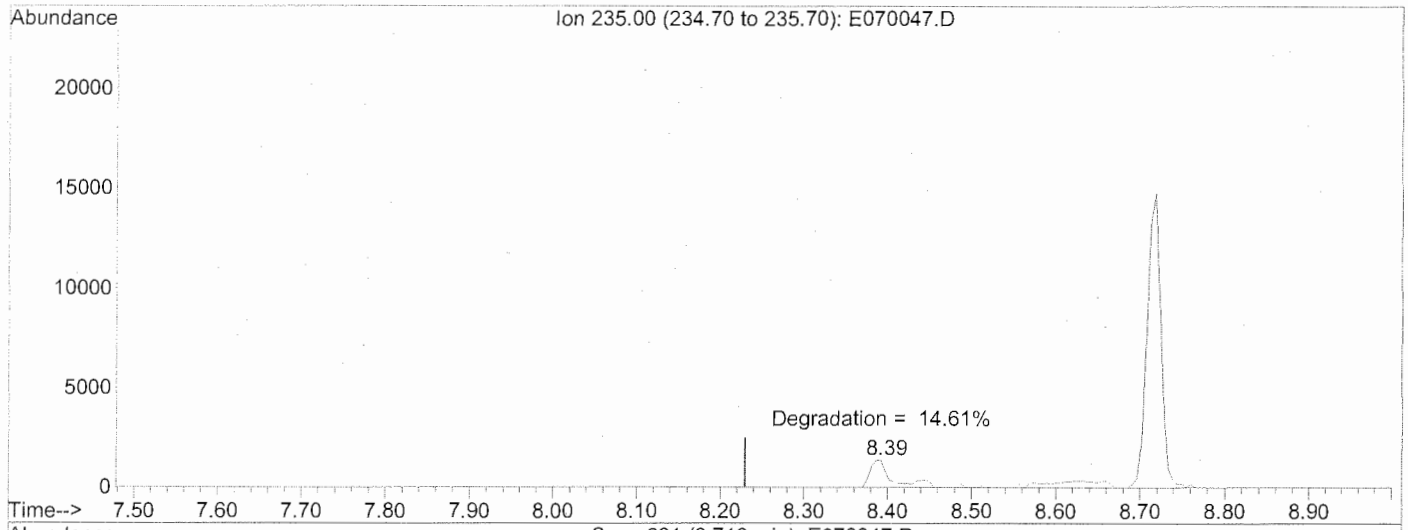
response 772740

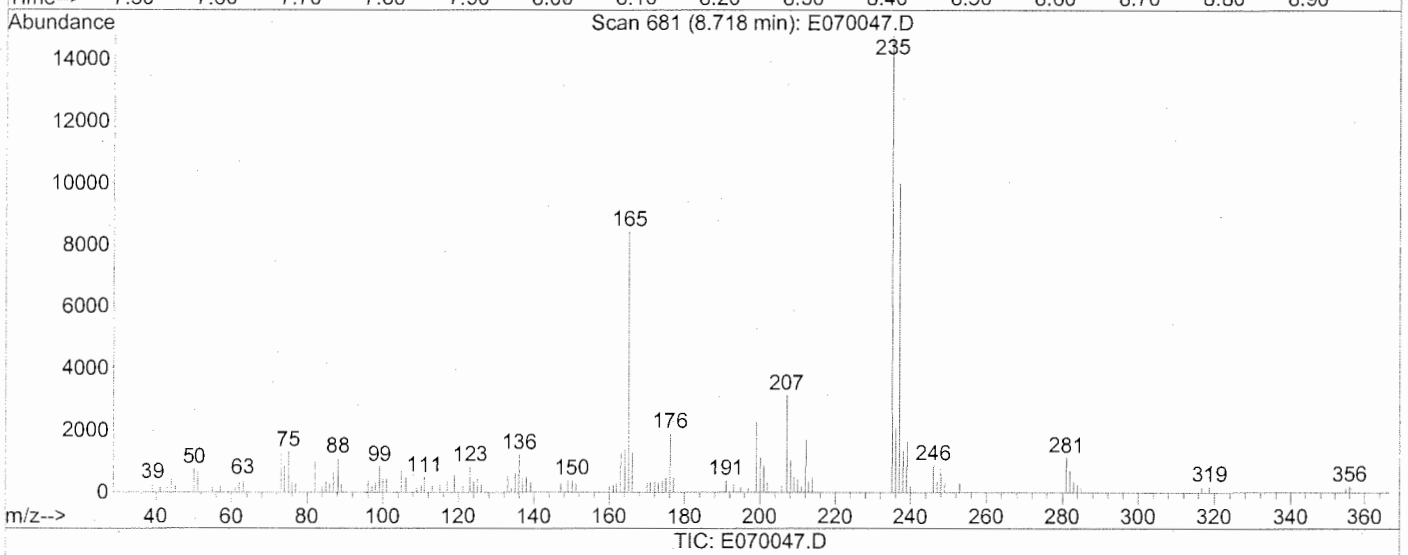
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070118\E070047.D Vial: 1
Acq On : 18 Jan 2007 12:01 pm Operator: GJ
Sample : STUN0118 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Jan 18 14:44 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E070047.D

(4) 4,4-DDT

8.72min 0.00

response 168496

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/19/2007

Analysis Lot:	DWG0700130	**Prep Lot:**		**Report Group:**	
Analysis Method:	8270C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070051.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 14:13	**Quant Date:**	01/18/2007 14:46	**Vial:**	4
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700130-2			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	-0.08?	152	133016	40.00	OK
2	Naphthalene-d8	7.93	-0.09?	136	521098	40.00	OK
3	Acenaphthene-d10	10.18	-0.08?	164	292619	40.00	OK
4	Phenanthrene-d10	12.05	-0.10?	188	464760	40.00	OK
5	Chrysene-d12	16.65	-0.14?	240	272240	40.00	OK
6	Perylene-d12	19.71	-0.20?	264	161716	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	2-Fluorophenol	4.67			112	220370	52.04		23-115	NA
1	Phenol-d5	5.82			99	287849	52.44		23-121	NA
2	Nitrobenzene-d5	7.03			82	236065	53.62		42-122	NA
3	2-Fluorobiphenyl	9.31			172	488581	52.95		47-110	NA
4	2,4,6-Tribromophenol	11.17			330	52757	47.33		31-112	NA
5	Terphenyl-d14	14.56			244	376855	49.53		37-130	NA

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.95			88	101042	51.87			
1	N-Nitrosodimethylamine	3.30			42	127339	50.27			
1	Pyridine	3.32			79	261744	51.77			
1	PGMEA	4.57			43	419431	45.81			
1	Phenol	5.83			94	308748	53.39			
1	Aniline	5.90			93	332434	49.65			
1	Bis(2-chloroethyl) Ether	5.95			93	245383	51.57			
1	2-Chlorophenol	6.05			128	257527	52.54			
1	1,3-Dichlorobenzene	6.23			146	286891	53.48			
1	1,4-Dichlorobenzene	6.30			146	285419	52.10			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine aceeptanee
e: Result >= MRL, but MRL less than low point of ICAL
e: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070051.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 14:13	**Quant Date:**	01/18/2007 14:46	**Vial:**	4
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700130-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.46			108	163973	52.47			
1	1,2-Dichlorobenzene	6.55			146	269144	52.66			
1	1-Methyl-2-pyrrolidinone	6.58			99	167413	53.85			
1	2-Methylphenol	6.62			108	222530	51.74			
1	Bis(2-Chloroisopropyl)ether	6.65			45	418926	46.17			
1	4-Methylphenol	6.80			107	289467	53.15			
1	N-Nitrosodi-n-propylamine	6.84			70	171137	53.22			
1	Hexachloroethane	6.95			117	105426	52.31			
2	Nitrobenzene	7.05			77	250394	54.11			
2	Isophorone	7.34			82	451582	54.43			
2	2-Nitrophenol	7.46			139	135090	51.84			
2	2,4-Dimethylphenol	7.48			122	228082	54.04			
2	Benzoic acid	7.73			122	720408	259.48			
2	bis(2-Chloroethoxy)methane	7.60			93	272180	52.21			
2	2,4-Dichlorophenol	7.76			162	198532	55.53			
2	1,2,4-Trichlorobenzene	7.87			180	206043	53.50			
2	Naphthalene	7.96			128	722687	52.94			
2	4-Chloroaniline	8.04			127	262335	54.98			
2	Hexachlorobutadiene	8.17			225	99426	49.09			
2	4-Chloro-3-methylphenol	8.63			107	201775	55.24			
2	2-Methylnaphthalene	8.83			142	492988	53.50			
3	Hexachlorocyclopentadiene	9.11			237	83943	36.06			
3	2,4,6-Trichlorophenol	9.21			196	129584	53.76			
3	2,4,5-Trichlorophenol	9.27			196	139846	53.55			
3	2-Chloronaphthalene	9.45			162	429841	52.11			
3	2-Nitroaniline	9.61			65	130147	51.34			
3	Dimethyl Phthalate	9.85			163	483204	53.41			
3	Acenaphthylene	9.99			152	706642	52.69			
3	2,6-Dinitrotoluene	9.94			165	114349	54.06			
3	3-Nitroaniline	10.12			138	98570	52.63			
3	Acenaphthene	10.22			154	473583	53.57			
3	2,4-Dinitrophenol	10.25			184	104343	82.64			
3	4-Nitrophenol	10.31			109	106230	102.49			
3	Dibenzofuran	10.41			168	621825	53.82			
3	2,4-Dinitrotoluene	10.43			165	145638	53.89			
3	Fluorene	10.85			166	506885	53.90			
3	Diethyl Phthalate	10.72			149	490990	53.88			
3	4-Chlorophenyl Phenyl Ether	10.82			204	220736	54.36			
3	4-Nitroaniline	10.90			138	94340	54.56			
4	2-Methyl-4,6-dinitrophenol	10.95			198	137833	88.91			
4	N-Nitrosodiphenylamine	10.97			169	326884	49.26			
4	Azobenzene	11.02			77	480839	50.61			
4	4-Bromophenyl Phenyl Ether	11.43			248	113800	46.61			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070051.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 14:13	**Quant Date:**	01/18/2007 14:46	**Vial:**	4
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700130-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.65			284	115979	45.13			
4	Pentachlorophenol	11.87			266	140971	82.77			
4	Phenanthrene	12.08			178	679422	52.23			
4	Anthracene	12.15			178	676404	53.14			
4	Carbazole	12.36			167	366268	53.86			
4	Di-n-butyl Phthalate	12.88			149	820056	57.58			
4	Fluoranthene	13.92			202	640091	57.75			
5	Benzidine	14.10			184	223576	64.92			
5	Pyrene	14.31			202	625424	53.16			
5	Butyl Benzyl Phthalate	15.51			149	315307	59.55			
5	3,3'-Dichlorobenzidine	16.57			252	237483	114.23			
5	Benz(a)anthracene	16.61			228	418660	52.94			
5	Chrysene	16.70			228	391955	52.80			
5	Bis(2-ethylhexyl) Phthalate	16.72			149	468658	68.20			
5	Mirex	17.50			272	41328	27.94			
6	Di-n-octyl Phthalate	17.99			149	711257	68.21			
6	Benzo(b)fluoranthene	18.84			252	314711**m**	53.67			
6	Benzo(k)fluoranthene	18.90			252	301043	52.95			
6	Benzo(a)pyrene	19.57			252	259690	56.21			
6	Indeno(1,2,3-cd)pyrene	22.75			276	219966	58.90			
6	Dibenz(a,h)anthracene	22.80			278	191808	59.64			
6	Benzo(g,h,i)perylene	23.65			276	175932	57.12			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 18 14:38:35 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	133016	40.00	mg/L		-0.08
22) Naphthalene-d8	7.93	136	521098	40.00	mg/L		-0.09
37) Acenaphthene-d10	10.18	164	292619	40.00	mg/L		-0.09
57) Phenanthrene-d10	12.05	188	464760	40.00	mg/L		-0.10
70) Chrysene-d12	16.65	240	272240	40.00	mg/L		-0.14
80) Perylene-d12	19.71	264	161716	40.00	mg/L		-0.20
System Monitoring Compounds							
6) 2-Fluorophenol	4.67	112	220370	52.04	mg/L		-0.06
Spiked Amount 50.000			Recovery =	104.08%			
7) Phenol-d5	5.82	99	287849	52.44	mg/L		-0.05
Spiked Amount 50.000			Recovery =	104.88%			
23) Nitrobenzene-d5	7.03	82	236065	53.62	mg/L		-0.07
Spiked Amount 50.000			Recovery =	107.24%			
41) 2-Fluorobiphenyl	9.31	172	488581	52.95	mg/L		-0.08
Spiked Amount 50.000			Recovery =	105.90%			
61) 2,4,6-Tribromophenol	11.17	330	52757	47.33	mg/L		-0.09
Spiked Amount 50.000			Recovery =	94.66%			
73) Terphenyl-d14	14.56	244	376855	49.53	mg/L		-0.13
Spiked Amount 50.000			Recovery =	99.06%			
Target Compounds							Qvalue
2) 1,4-Dioxane	2.95	88	101042	51.87	mg/L	#	81
3) N-Nitrosodimethylamine	3.30	42	127339	50.27	mg/L		93
4) Pyridine	3.32	79	261744	51.77	mg/L	#	67
5) PGMEA	4.57	43	419431	45.81	mg/L	#	89
8) Phenol	5.83	94	308748	53.39	mg/L		90
9) Aniline	5.90	93	332434	49.65	mg/L		96
10) Bis(2-chloroethyl)ether	5.95	93	245383	51.57	mg/L		98
11) 2-Chlorophenol	6.05	128	257527	52.54	mg/L		98
12) 1,3-Dichlorobenzene	6.23	146	286891	53.48	mg/L		99
13) 1,4-Dichlorobenzene	6.30	146	285419	52.10	mg/L		100
14) Benzyl alcohol	6.46	108	163973	52.47	mg/L	#	78
15) 1,2-Dichlorobenzene	6.55	146	269144	52.66	mg/L		98
16) N-Methyl pyrrolidine (NMP)	6.58	99	167413	53.85	mg/L		99
17) 2-Methylphenol	6.62	108	222530	51.74	mg/L		98
18) Bis(2-chloroisopropyl)ethe	6.65	45	418926	46.17	mg/L	#	82
19) 4-Methylphenol	6.80	107	289467	53.15	mg/L	#	93
20) N-Nitrosodi-n-propylamine	6.84	70	171137	53.22	mg/L	#	83
21) Hexachloroethane	6.95	117	105426	52.31	mg/L	#	80
24) Nitrobenzene	7.05	77	250394	54.11	mg/L	#	85
25) Isophorone	7.34	82	451582	54.43	mg/L		93
26) 2-Nitrophenol	7.46	139	135090	51.84	mg/L	#	89
27) 2,4-Dimethylphenol	7.48	122	228082	54.04	mg/L		83
28) Benzoic acid	7.73	122	720408	259.48	mg/L	#	83
29) Bis(2-chloroethoxy)methane	7.60	93	272180	52.21	mg/L	#	93
30) 2,4-Dichlorophenol	7.76	162	198532	55.53	mg/L		98
31) 1,2,4-Trichlorobenzene	7.87	180	206043	53.50	mg/L		99
32) Naphthalene	7.96	128	722687	52.94	mg/L		99
33) 4-Chloroaniline	8.04	127	262335	54.98	mg/L		94
34) Hexachlorobutadiene	8.17	225	99426	49.09	mg/L		99
35) 4-Chloro-3-methylphenol	8.63	107	201775	55.24	mg/L		93
36) 2-Methylnaphthalene	8.83	142	492988	53.50	mg/L		99
38) Hexachlorocyclopentadiene	9.11	237	83943	36.06	mg/L		99

(#) = qualifier out of range (m) = manual integration
E070051.D BA061226.M Thu Jan 18 14:47:23 2007 1/19/07 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 18 14:38:35 2007 Quant Results File: BA061226.RES

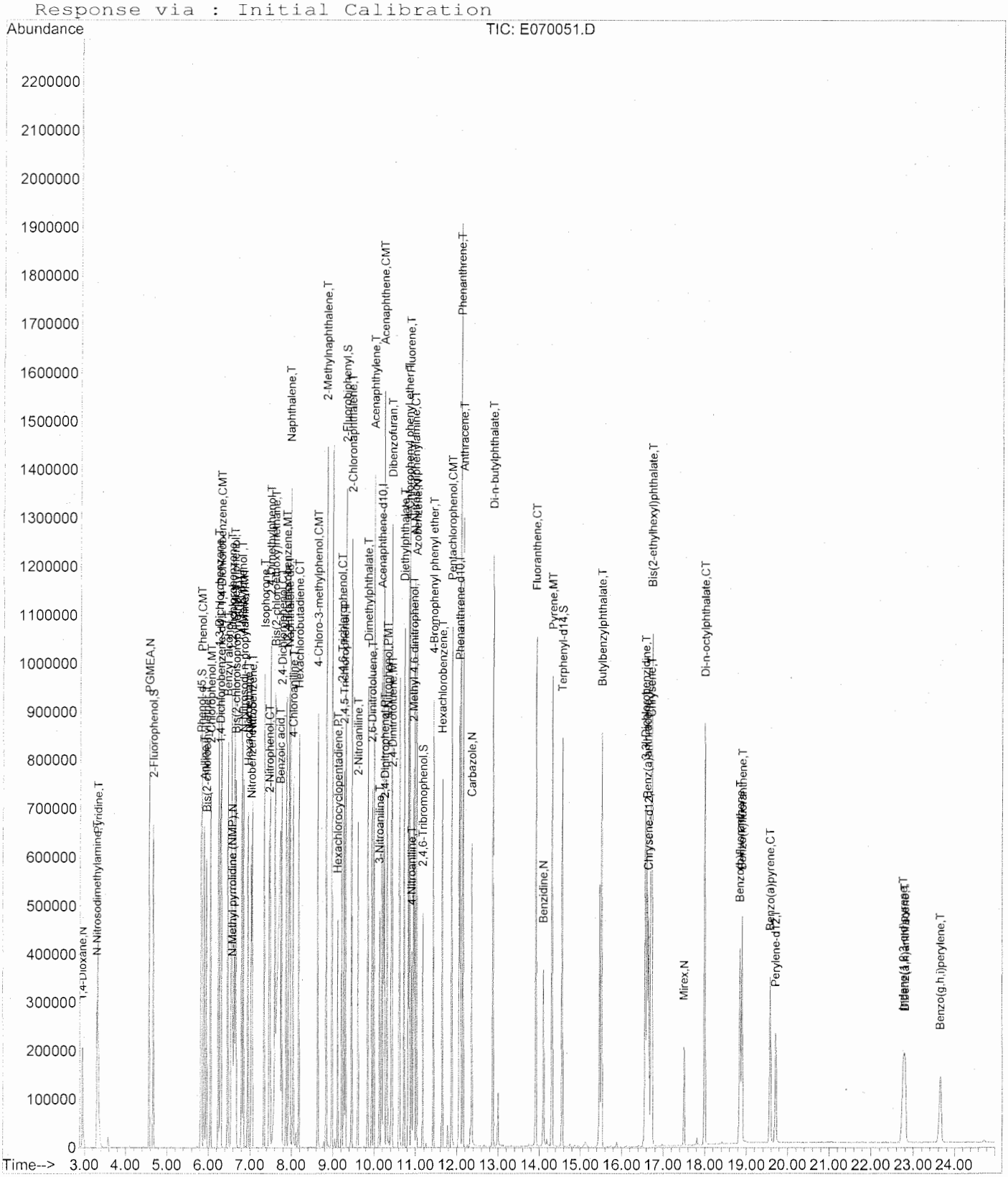
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.21	196	129584	53.76	mg/L		99
40)	2,4,5-Trichlorophenol	9.27	196	139846	53.55	mg/L		98
42)	2-Chloronaphthalene	9.45	162	429841	52.11	mg/L		98
43)	2-Nitroaniline	9.61	65	130147	51.34	mg/L		88
44)	Dimethylphthalate	9.85	163	483204	53.41	mg/L		97
45)	Acenaphthylene	9.99	152	706642	52.69	mg/L		100
46)	2,6-Dinitrotoluene	9.94	165	114349	54.06	mg/L		93
47)	3-Nitroaniline	10.12	138	98570	52.63	mg/L		88
48)	Acenaphthene	10.22	154	473583	53.57	mg/L		89
49)	2,4-Dinitrophenol	10.25	184	104343	82.64	mg/L	#	57
50)	4-Nitrophenol	10.31	109	106230	102.49	mg/L	#	54
51)	Dibenzofuran	10.41	168	621825	53.82	mg/L		96
52)	2,4-Dinitrotoluene	10.43	165	145638	53.89	mg/L	#	89
53)	Fluorene	10.85	166	506885	53.90	mg/L		99
54)	Diethylphthalate	10.72	149	490990	53.88	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.82	204	220736	54.36	mg/L		94
56)	4-Nitroaniline	10.90	138	94340	54.56	mg/L	#	83
58)	2-Methyl-4,6-dinitrophenol	10.95	198	137833	88.91	mg/L		90
59)	N-Nitrosodiphenylamine	10.97	169	326884	49.26	mg/L		95
60)	Azobenzene	11.02	77	480839	50.61	mg/L	#	97
62)	4-Bromophenyl phenyl ether	11.43	248	113800	46.61	mg/L		93
63)	Hexachlorobenzene	11.65	284	115979	45.13	mg/L		92
64)	Pentachlorophenol	11.87	266	140971	82.77	mg/L		98
65)	Phenanthrene	12.08	178	679422	52.23	mg/L		99
66)	Anthracene	12.15	178	676404	53.14	mg/L		100
67)	Carbazole	12.36	167	366268	53.86	mg/L		98
68)	Di-n-butylphthalate	12.88	149	820056	57.58	mg/L		99
69)	Fluoranthene	13.92	202	640091	57.75	mg/L	#	94
71)	Benzidine	14.10	184	223576	64.92	mg/L	#	97
72)	Pyrene	14.31	202	625424	53.16	mg/L		99
74)	Butylbenzylphthalate	15.51	149	315307	59.55	mg/L		94
75)	3,3'-Dichlorobenzidine	16.57	252	237483	114.23	mg/L	#	97
76)	Benz(a)anthracene	16.61	228	418660	52.94	mg/L		99
77)	Chrysene	16.70	228	391955	52.80	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.72	149	468658	68.20	mg/L		98
79)	Mirex	17.50	272	41328	27.94	mg/L		100
81)	Di-n-octylphthalate	17.99	149	711257	68.21	mg/L		100
82)	Benzo(b)fluoranthene	18.84	252	314711m	53.67	mg/L		
83)	Benzo(k)fluoranthene	18.90	252	301043	52.95	mg/L	#	92
84)	Benzo(a)pyrene	19.57	252	259690	56.21	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.75	276	219966	58.90	mg/L	#	82
86)	Dibenz(a,h)anthracene	22.80	278	191808	59.64	mg/L		98
87)	Benzo(g,h,i)perylene	23.65	276	175932	57.12	mg/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 18 14:46 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	71	-0.08
2	N	1,4-Dioxane	0.586	0.608	-3.8	73	-0.07
3	T	N-Nitrosodimethylamine	0.762	0.766	-0.5	72	-0.07
4	T	Pyridine	1.520	1.574	-3.6	73	-0.07
5	N	PGMEA	2.753	2.523	8.4	66	-0.07
6	S	2-Fluorophenol	1.274	1.325	-4.0	73	-0.06
7	S	Phenol-d5	1.651	1.731	-4.8	74	-0.05
8	CMT	Phenol	1.739	1.857	-6.8#	75	-0.06
9	T	Aniline	2.014	1.999	0.7	68	-0.07
10	T	Bis(2-chloroethyl)ether	1.431	1.476	-3.1	74	-0.08
11	MT	2-Chlorophenol	1.474	1.549	-5.1	73	-0.07
12	T	1,3-Dichlorobenzene	1.613	1.725	-6.9	76	-0.08
13	CMT	1,4-Dichlorobenzene	1.647	1.717	-4.3#	75	-0.08
14	T	Benzyl alcohol	0.940	0.986	-4.9	73	-0.07
15	T	1,2-Dichlorobenzene	1.537	1.619	-5.3	75	-0.07
16	N	N-Methyl pyrrolidine (NMP)	0.935	1.007	-7.7	74	-0.10
17	T	2-Methylphenol	1.293	1.338	-3.5	73	-0.06
18	T	Bis(2-chloroisopropyl)ether	2.729	2.520	7.7	67	-0.08
19	T	4-Methylphenol	1.638	1.741	-6.3	74	-0.06
20	PMT	N-Nitrosodi-n-propylamine	0.967	1.029	-6.4	74	-0.08
21	T	Hexachloroethane	0.606	0.634	-4.6	74	-0.07
22	I	Naphthalene-d8	1.000	1.000	0.0	70	-0.09
23	S	Nitrobenzene-d5	0.338	0.362	-7.1	73	-0.07
24	T	Nitrobenzene	0.355	0.384	-8.2	75	-0.08
25	T	Isophorone	0.637	0.693	-8.8	73	-0.08
26	CT	2-Nitrophenol	0.200	0.207	-3.5#	74	-0.07
27	T	2,4-Dimethylphenol	0.324	0.350	-8.0	74	-0.06
28	T	Benzoic acid	0.213	0.221	-3.8	67	-0.09
29	T	Bis(2-chloroethoxy)methane	0.400	0.418	-4.5	72	-0.08
30	CT	2,4-Dichlorophenol	0.274	0.305	-11.3#	76	-0.07
31	MT	1,2,4-Trichlorobenzene	0.296	0.316	-6.8	75	-0.08
32	T	Naphthalene	1.048	1.109	-5.8	74	-0.09
33	T	4-Chloroaniline	0.366	0.403	-10.1	68	-0.07
34	CT	Hexachlorobutadiene	0.155	0.153	1.3#	68	-0.08
35	CMT	4-Chloro-3-methylphenol	0.280	0.310	-10.7#	73	-0.06
36	T	2-Methylnaphthalene	0.707	0.757	-7.1	74	-0.09
37	I	Acenaphthene-d10	1.000	1.000	0.0	70	-0.09
38	PT	Hexachlorocyclopentadiene	0.318	0.229	28.0#	49#	-0.08
39	CT	2,4,6-Trichlorophenol	0.329	0.354	-7.6#	74	-0.08
40	T	2,4,5-Trichlorophenol	0.357	0.382	-7.0	73	-0.07
41	S	2-Fluorobiphenyl	1.261	1.336	-5.9	75	-0.08
42	T	2-Chloronaphthalene	1.127	1.175	-4.3	73	-0.09
43	T	2-Nitroaniline	0.347	0.356	-2.6	69	-0.08
44	T	Dimethylphthalate	1.237	1.321	-6.8	74	-0.08
45	T	Acenaphthylene	1.833	1.932	-5.4	74	-0.09
46	T	2,6-Dinitrotoluene	0.289	0.313	-8.3	73	-0.09
47	T	3-Nitroaniline	0.238	0.269	-13.0	73	-0.08
48	CMT	Acenaphthene	1.208	1.295	-7.2#	72	-0.09
49	PT	2,4-Dinitrophenol	0.173	0.143	17.3	57	-0.09
50	PMT	4-Nitrophenol	0.142	0.145	-2.1	69	-0.06
51	T	Dibenzofuran	1.579	1.700	-7.7	76	-0.09

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	MT	2,4-Dinitrotoluene	0.369	0.398	-7.9	73	-0.09
53	T	Fluorene	1.285	1.386	-7.9	76	-0.09
54	T	Diethylphthalate	1.246	1.342	-7.7	74	-0.09
55	T	4-Chlorophenyl phenyl ether	0.555	0.603	-8.6	76	-0.09
56	T	4-Nitroaniline	0.210	0.258	-22.9#	79	-0.09
57	I	Phenanthrene-d10	1.000	1.000	0.0	75	-0.10
58	T	2-Methyl-4,6-dinitrophenol	0.133	0.119	10.5	62	-0.09
59	CT	N-Nitrosodiphenylamine	0.571	0.563	1.4#	75	-0.09
60	N	Azobenzene	0.818	0.828	-1.2	75	-0.09
61	S	2,4,6-Tribromophenol	0.096	0.091	5.2	67	-0.09
62	T	4-Bromophenyl phenyl ether	0.210	0.196	6.7	69	-0.10
63	T	Hexachlorobenzene	0.221	0.200	9.5	67	-0.10
64	CMT	Pentachlorophenol	0.147	0.121	17.7#	59	-0.09
65	T	Phenanthrene	1.120	1.170	-4.5	79	-0.11
66	T	Anthracene	1.095	1.164	-6.3	79	-0.10
67	N	Carbazole	0.702	0.630	10.3	89	-0.10
68	T	Di-n-butylphthalate	1.226	1.412	-15.2	82	-0.11
69	CT	Fluoranthene	0.954	1.102	-15.5#	86	-0.12
70	I	Chrysene-d12	1.000	1.000	0.0	89	-0.14
71	N	Benzidine	0.506	0.328	35.2#	60	-0.12
72	MT	Pyrene	1.729	1.838	-6.3	88	-0.13
73	S	Terphenyl-d14	1.118	1.107	1.0	81	-0.13
74	T	Butylbenzylphthalate	0.778	0.927	-19.2	95	-0.14
75	T	3,3'-Dichlorobenzidine	0.294	0.349	-18.7	113	-0.14
76	T	Benz(a)anthracene	1.162	1.230	-5.9	93	-0.15
77	T	Chrysene	1.091	1.152	-5.6	95	-0.15
78	T	Bis(2-ethylhexyl)phthalate	1.010	1.377	-36.3#	107	-0.15
79	N	Mirex	0.217	0.243	-12.0	87	-0.16
80	I	Perylene-d12	1.000	1.000	0.0	113	-0.20
81	CT	Di-n-octylphthalate	2.579	3.519	-36.4#	117	-0.15
82	T	Benzo(b)fluoranthene	1.451	1.557	-7.3	116	-0.17
83	T	Benzo(k)fluoranthene	1.406	1.489	-5.9	119	-0.18
84	CT	Benzo(a)pyrene	1.143	1.285	-12.4#	124	-0.20
85	T	Indeno(1,2,3-c,d)pyrene	0.924	1.088	-17.7	139	0.01
86	T	Dibenz(a,h)anthracene	0.795	0.949	-19.4	140	0.00
87	T	Benzo(g,h,i)perylene	0.762	0.870	-14.2	135	0.01

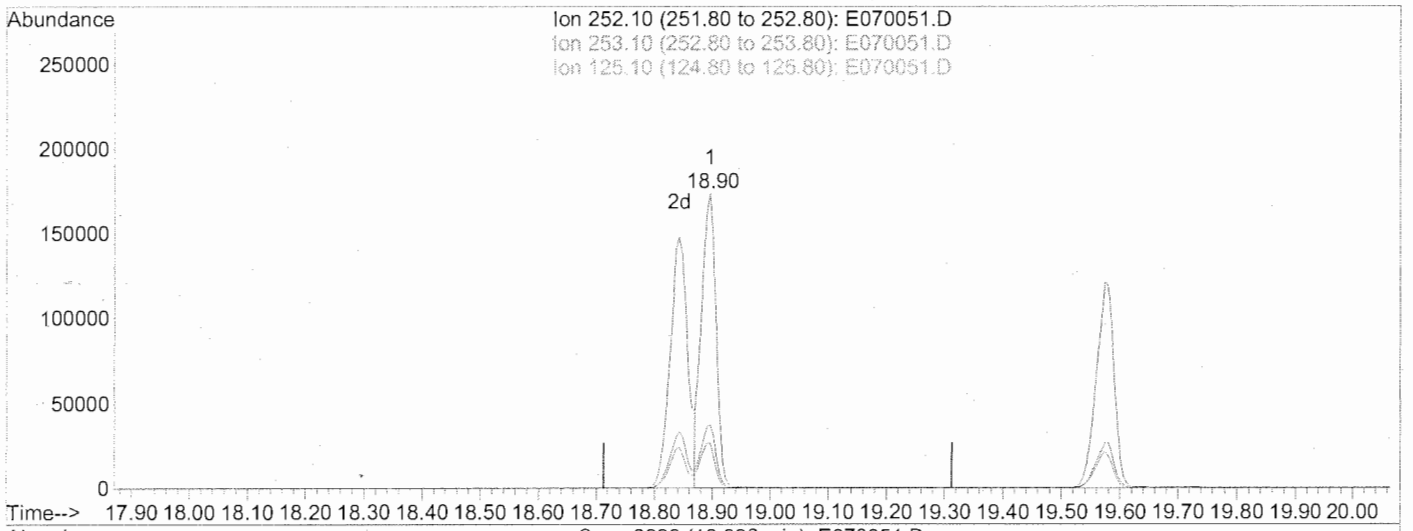
high

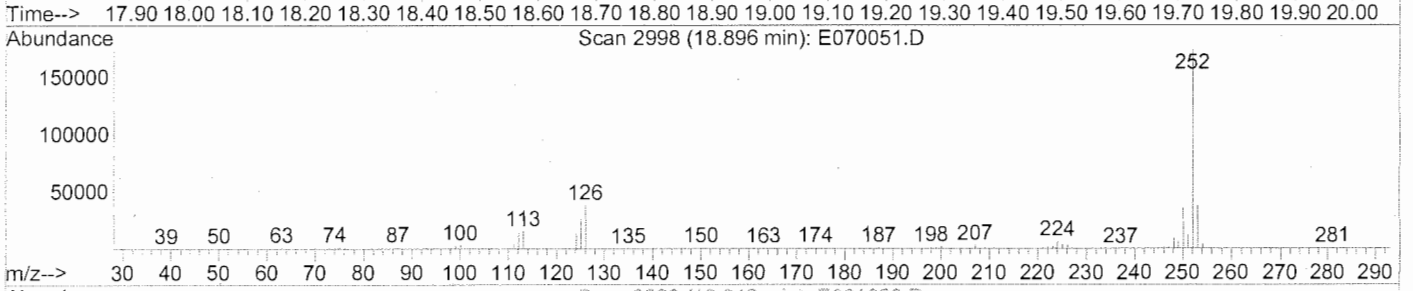
(#) = Out of Range SPCC's out = 0 CCC's out = 13

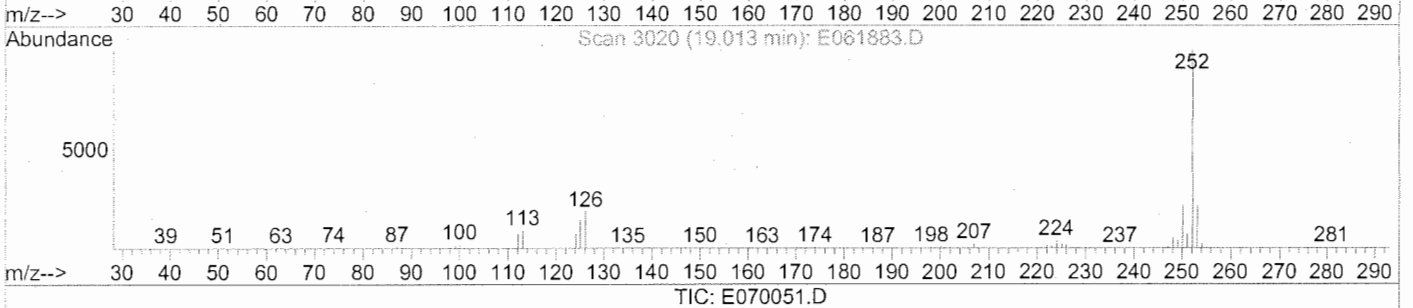
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 18 14:38 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration







TIC: E070051.D

(82) Benzo(b)fluoranthene (T)

18.90min 51.33mg/L

response 301024

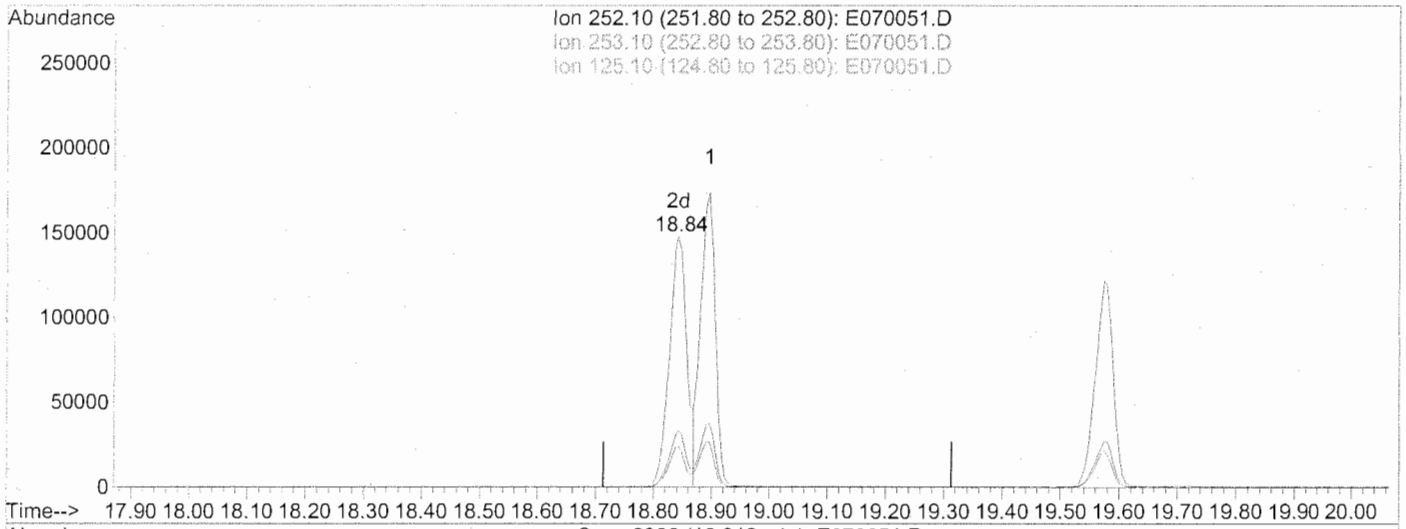
Ion	Exp%	Act%
252.10	100	100
253.10	22.10	22.69
125.10	7.90	16.38#
0.00	0.00	0.00

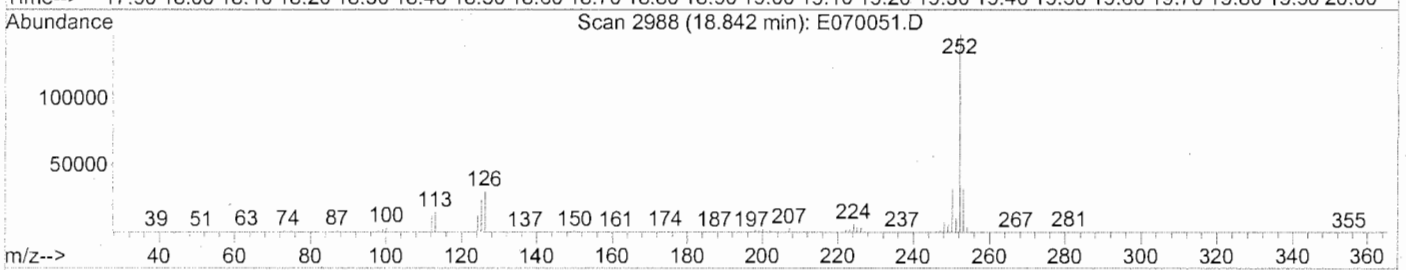
Ref.

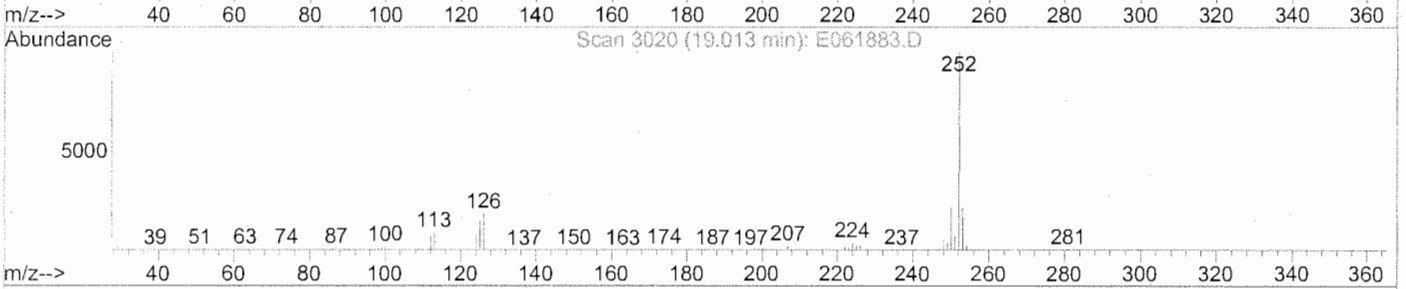
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 18 14:46 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration







TIC: E070051.D

(82) Benzo(b)fluoranthene (T)

18.84min 53.67mg/L m

response 314711

Ion	Exp%	Act%
252.10	100	100
253.10	22.10	21.70
125.10	7.90	15.66#
0.00	0.00	0.00

Aft.
GJ 1/19/07
- wrong peak

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 18 14:38:35 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	133016	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	521098	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	292619	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	464760	40.00	mg/L	-0.10
70) Chrysene-d12	16.65	240	272240	40.00	mg/L	-0.14
80) Perylene-d12	19.71	264	161716	40.00	mg/L	-0.20
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	220370	52.04	mg/L	-0.06
Spiked Amount 50.000			Recovery =	104.08%		
7) Phenol-d5	5.82	99	287849	52.44	mg/L	-0.05
Spiked Amount 50.000			Recovery =	104.88%		
23) Nitrobenzene-d5	7.03	82	236065	53.62	mg/L	-0.07
Spiked Amount 50.000			Recovery =	107.24%		
41) 2-Fluorobiphenyl	9.31	172	488581	52.95	mg/L	-0.08
Spiked Amount 50.000			Recovery =	105.90%		
61) 2,4,6-Tribromophenol	11.17	330	52757	47.33	mg/L	-0.09
Spiked Amount 50.000			Recovery =	94.66%		
73) Terphenyl-d14	14.56	244	376855	49.53	mg/L	-0.13
Spiked Amount 50.000			Recovery =	99.06%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.95	88	101042	51.87	mg/L #	81
3) N-Nitrosodimethylamine	3.30	42	127339	50.27	mg/L	93
4) Pyridine	3.32	79	261744	51.77	mg/L #	67
5) PGMEA	4.57	43	419431	45.81	mg/L #	89
8) Phenol	5.83	94	308748	53.39	mg/L	90
9) Aniline	5.90	93	332434	49.65	mg/L	96
10) Bis(2-chloroethyl)ether	5.95	93	245383	51.57	mg/L	98
11) 2-Chlorophenol	6.05	128	257527	52.54	mg/L	98
12) 1,3-Dichlorobenzene	6.23	146	286891	53.48	mg/L	99
13) 1,4-Dichlorobenzene	6.30	146	285419	52.10	mg/L	100
14) Benzyl alcohol	6.46	108	163973	52.47	mg/L #	78
15) 1,2-Dichlorobenzene	6.55	146	269144	52.66	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.58	99	167413	53.85	mg/L	99
17) 2-Methylphenol	6.62	108	222530	51.74	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.65	45	418926	46.17	mg/L #	82
19) 4-Methylphenol	6.80	107	289467	53.15	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.84	70	171137	53.22	mg/L #	83
21) Hexachloroethane	6.95	117	105426	52.31	mg/L #	80
24) Nitrobenzene	7.05	77	250394	54.11	mg/L #	85
25) Isophorone	7.34	82	451582	54.43	mg/L	93
26) 2-Nitrophenol	7.46	139	135090	51.84	mg/L #	89
27) 2,4-Dimethylphenol	7.48	122	228082	54.04	mg/L	83
28) Benzoic acid	7.73	122	720408	259.48	mg/L #	83
29) Bis(2-chloroethoxy)methane	7.60	93	272180	52.21	mg/L #	93
30) 2,4-Dichlorophenol	7.76	162	198532	55.53	mg/L	98
31) 1,2,4-Trichlorobenzene	7.87	180	206043	53.50	mg/L	99
32) Naphthalene	7.96	128	722687	52.94	mg/L	99
33) 4-Chloroaniline	8.04	127	262335	54.98	mg/L	94
34) Hexachlorobutadiene	8.17	225	99426	49.09	mg/L	99
35) 4-Chloro-3-methylphenol	8.63	107	201775	55.24	mg/L	93
36) 2-Methylnaphthalene	8.83	142	492988	53.50	mg/L	99
38) Hexachlorocyclopentadiene	9.11	237	83943	36.06	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 18 14:38:35 2007 Quant Results File: BA061226.RES

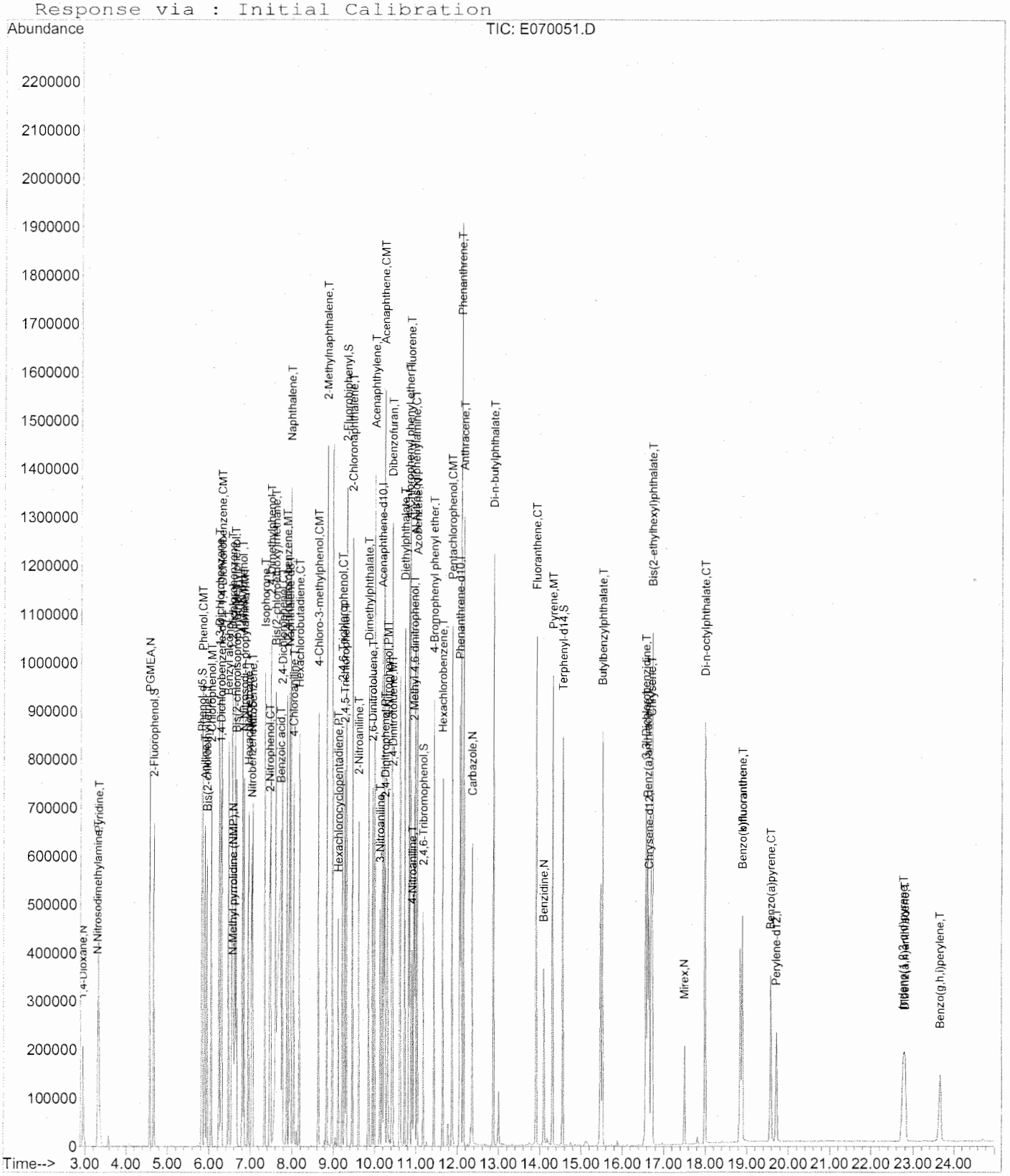
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.21	196	129584	53.76	mg/L		99
40)	2,4,5-Trichlorophenol	9.27	196	139846	53.55	mg/L		98
42)	2-Chloronaphthalene	9.45	162	429841	52.11	mg/L		98
43)	2-Nitroaniline	9.61	65	130147	51.34	mg/L		88
44)	Dimethylphthalate	9.85	163	483204	53.41	mg/L		97
45)	Acenaphthylene	9.99	152	706642	52.69	mg/L		100
46)	2,6-Dinitrotoluene	9.94	165	114349	54.06	mg/L		93
47)	3-Nitroaniline	10.12	138	98570	52.63	mg/L		88
48)	Acenaphthene	10.22	154	473583	53.57	mg/L		89
49)	2,4-Dinitrophenol	10.25	184	104343	82.64	mg/L	#	57
50)	4-Nitrophenol	10.31	109	106230	102.49	mg/L	#	54
51)	Dibenzofuran	10.41	168	621825	53.82	mg/L		96
52)	2,4-Dinitrotoluene	10.43	165	145638	53.89	mg/L	#	89
53)	Fluorene	10.85	166	506885	53.90	mg/L		99
54)	Diethylphthalate	10.72	149	490990	53.88	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.82	204	220736	54.36	mg/L		94
56)	4-Nitroaniline	10.90	138	94340	54.56	mg/L	#	83
58)	2-Methyl-4,6-dinitrophenol	10.95	198	137833	88.91	mg/L		90
59)	N-Nitrosodiphenylamine	10.97	169	326884	49.26	mg/L		95
60)	Azobenzene	11.02	77	480839	50.61	mg/L	#	97
62)	4-Bromophenyl phenyl ether	11.43	248	113800	46.61	mg/L		93
63)	Hexachlorobenzene	11.65	284	115979	45.13	mg/L		92
64)	Pentachlorophenol	11.87	266	140971	82.77	mg/L		98
65)	Phenanthrene	12.08	178	679422	52.23	mg/L		99
66)	Anthracene	12.15	178	676404	53.14	mg/L		100
67)	Carbazole	12.36	167	366268	53.86	mg/L		98
68)	Di-n-butylphthalate	12.88	149	820056	57.58	mg/L		99
69)	Fluoranthene	13.92	202	640091	57.75	mg/L	#	94
71)	Benzidine	14.10	184	223576	64.92	mg/L	#	97
72)	Pyrene	14.31	202	625424	53.16	mg/L		99
74)	Butylbenzylphthalate	15.51	149	315307	59.55	mg/L		94
75)	3,3'-Dichlorobenzidine	16.57	252	237483	114.23	mg/L	#	97
76)	Benz(a)anthracene	16.61	228	418660	52.94	mg/L		99
77)	Chrysene	16.70	228	391955	52.80	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.72	149	468658	68.20	mg/L		98
79)	Mirex	17.50	272	41328	27.94	mg/L		100
81)	Di-n-octylphthalate	17.99	149	711257	68.21	mg/L		100
82)	Benzo(b)fluoranthene	18.90	252	301024	51.33	mg/L	#	93
83)	Benzo(k)fluoranthene	18.90	252	301043	52.95	mg/L	#	92
84)	Benzo(a)pyrene	19.57	252	259690	56.21	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.75	276	219966	58.90	mg/L	#	82
86)	Dibenz(a,h)anthracene	22.80	278	191808	59.64	mg/L		98
87)	Benzo(g,h,i)perylene	23.65	276	175932	57.12	mg/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E070118\E070051.D Vial: 4
Acq On : 18 Jan 2007 2:13 pm Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 18 14:38 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Injection Log

Directory: C:\MSDCHEM\1\DATA\E070119

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E070070.d	1.	STUN0119		19 Jan 2007 11:28
2	2	E070071.d	1.	50PPM 8270 CCV		19 Jan 2007 11:45
3	3	E070072.d	1.	D0700056-001 1/20 8270W 1/1...		19 Jan 2007 12:57
4	4	E070073.d	1.	D0700056-008 8270W 1/15/07		19 Jan 2007 13:29
5	5	E070074.d	1.	D0700056-008 1/10 8270W 1/1...		19 Jan 2007 14:08

DLG0706131

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/19/2007

Analysis Lot:	DWG0700131	**Prep Lot:**		**Report Group:**	
Analysis Method:	DFTPP	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\TUNE.M	**Calibration ID:**	CAL1241
Title:	DFTPP Tuning Criteria	**Report List ID:**	LJ1247
Tune Ref:		**Method ID:**	MJ364
MB Ref:		**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070070.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 11:28	**Quant Date:**		**Vial:**	1
Run Type:	DFTPP			**Dilution:**	1.0
Lab ID:	DWG0700131-1			**Soln Conc. Units:**	

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	60	49.5	8113	Pass
68	69	0	2	0.0	0	Pass
69	198	0	100	43.0	7049	Pass
70	69	0	2	0.0	0	Pass
127	198	40	60	53.5	8755	Pass
197	198	0	1	0.4	67	Pass
198	198	100	100	100.0	16379	Pass
199	198	5	9	6.0	981	Pass
275	198	10	30	21.2	3472	Pass
365	198	1	100	2.9	480	Pass
441	443	0	100	78.0	1853	Pass
442	198	40	100	76.3	12501	Pass
443	442	17	23	19.0	2376	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

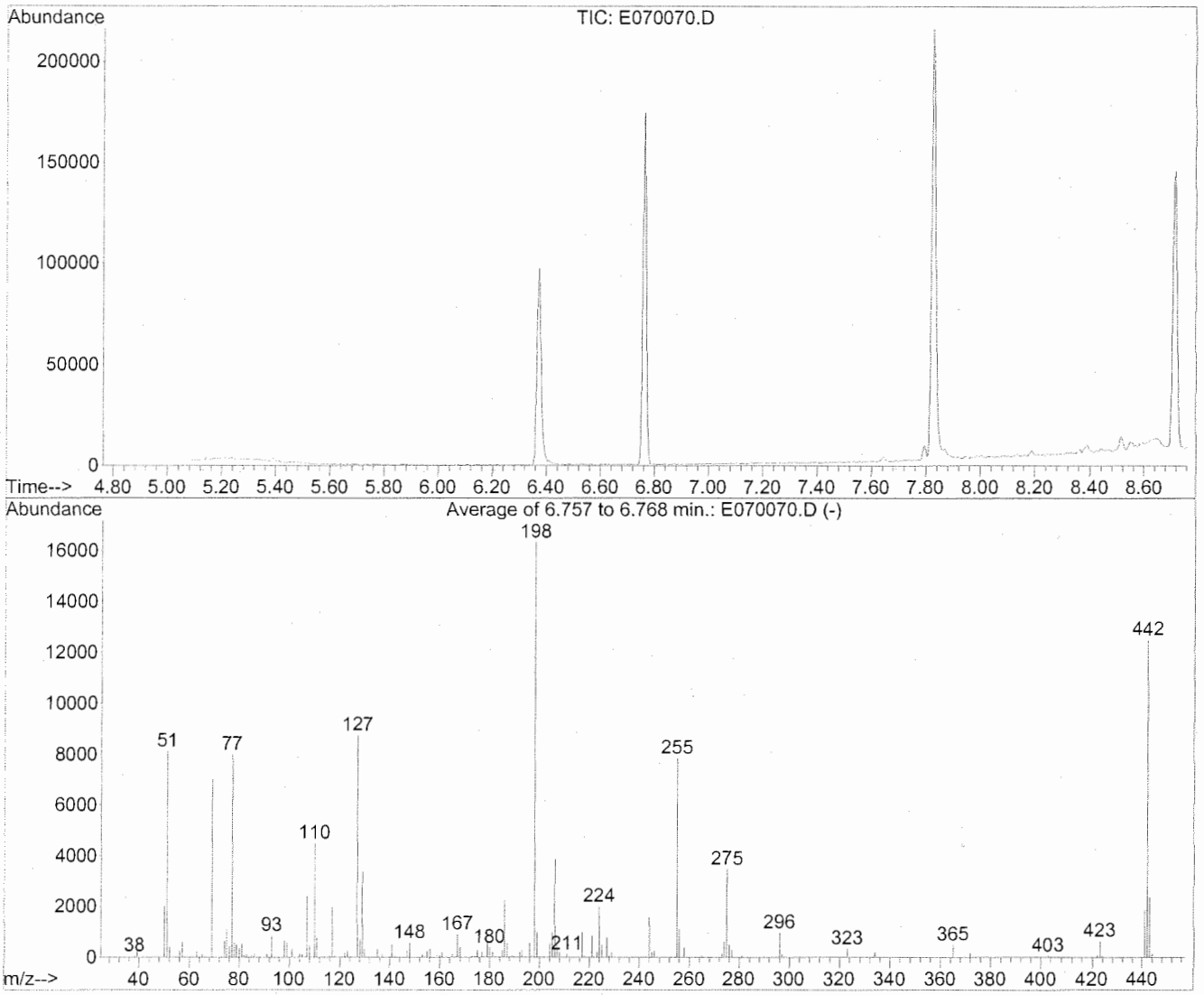
D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

DFTPP

Data File : C:\MSDchem\1\DATA\E070119\E070070.D
Acq On : 19 Jan 2007 11:28 am
Sample : STUN0119
Misc :
MS Integration Params: events.e
Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method

Vial: 1
Operator: GJ
Inst : MSE
Multiplr: 1.00



AutoFind: Scans 314, 315, 316; Background Corrected with Scan 302

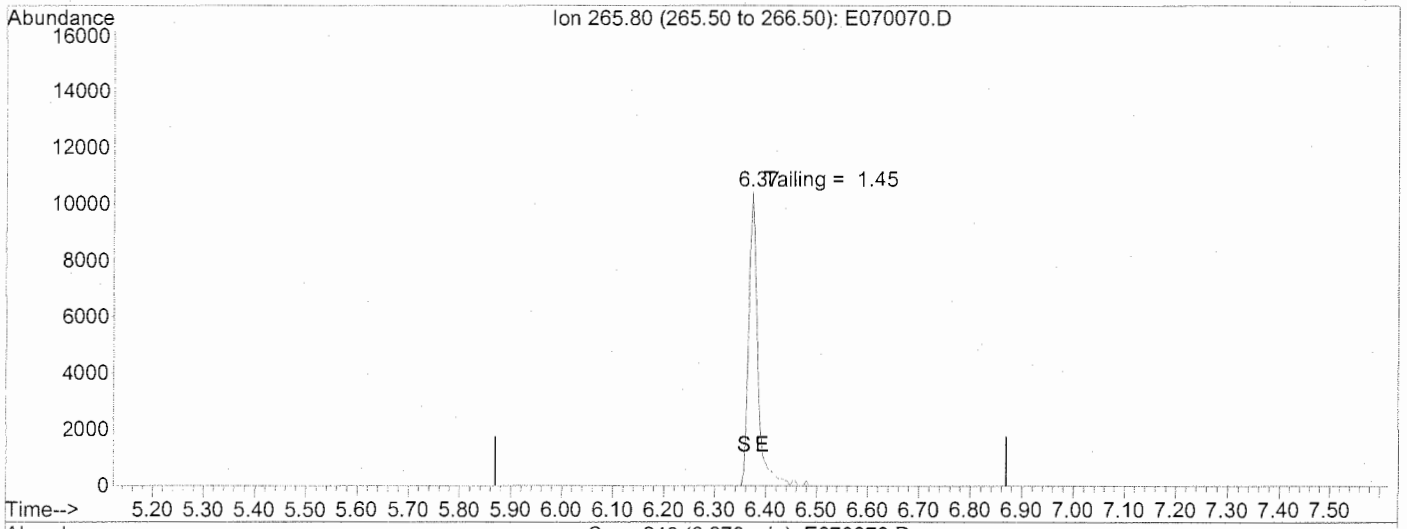
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.5	8113	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.0	7049	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.5	8755	PASS
197	198	0.00	1	0.4	67	PASS
198	198	100	100	100.0	16379	PASS
199	198	5	9	6.0	981	PASS
275	198	10	30	21.2	3472	PASS
365	198	1	100	2.9	480	PASS
441	443	0.01	100	78.0	1853	PASS
442	198	40	100	76.3	12501	PASS
443	442	17	23	19.0	2376	PASS

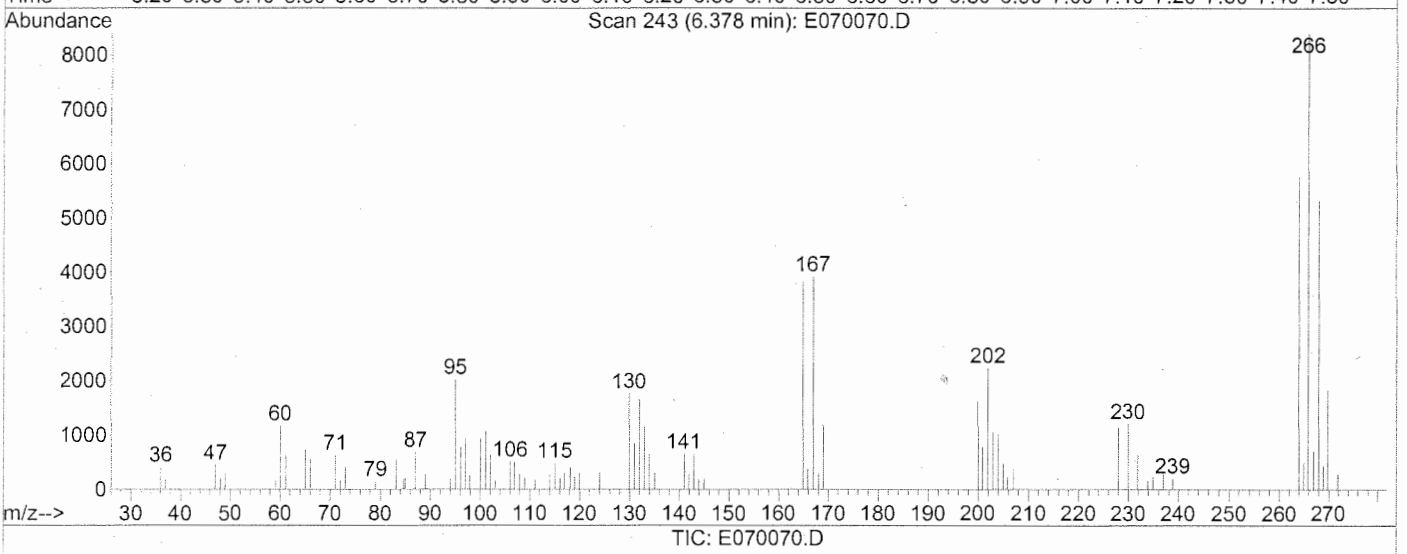
E070070.D TUNE.M Fri Jan 19 11:38:03 2007 GJ 1/19/07

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070119\E070070.D Vial: 1
Acq On : 19 Jan 2007 11:28 am Operator: GJ
Sample : STUN0119 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Jan 19 12:51 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E070070.D

(1) Pentachlorophenol

6.38min 0.00

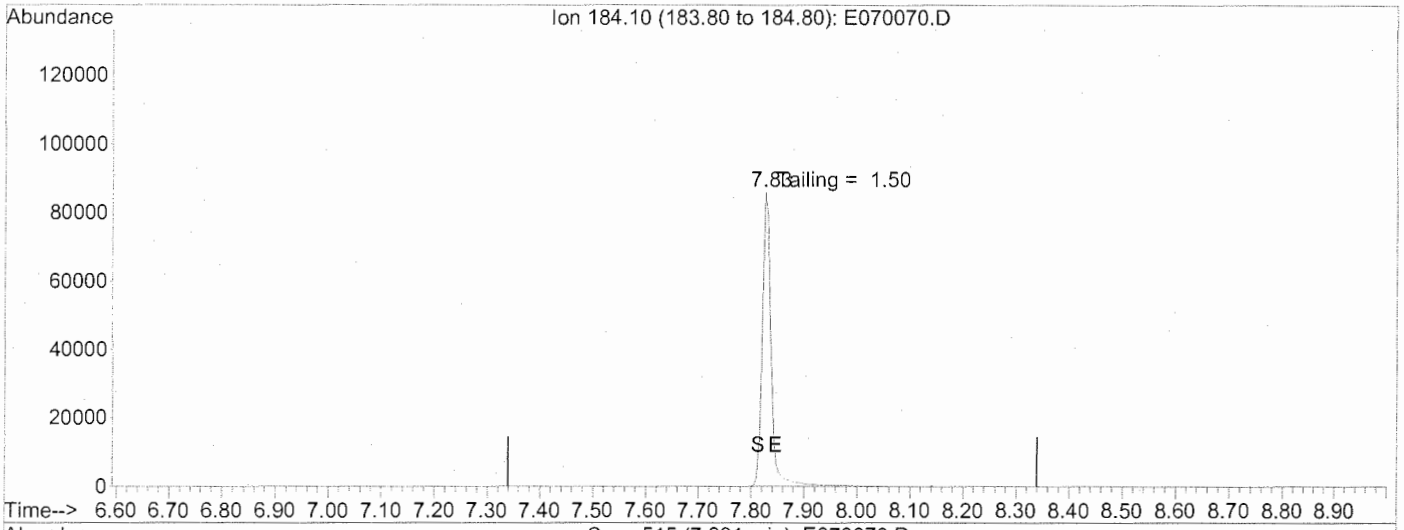
response 132402

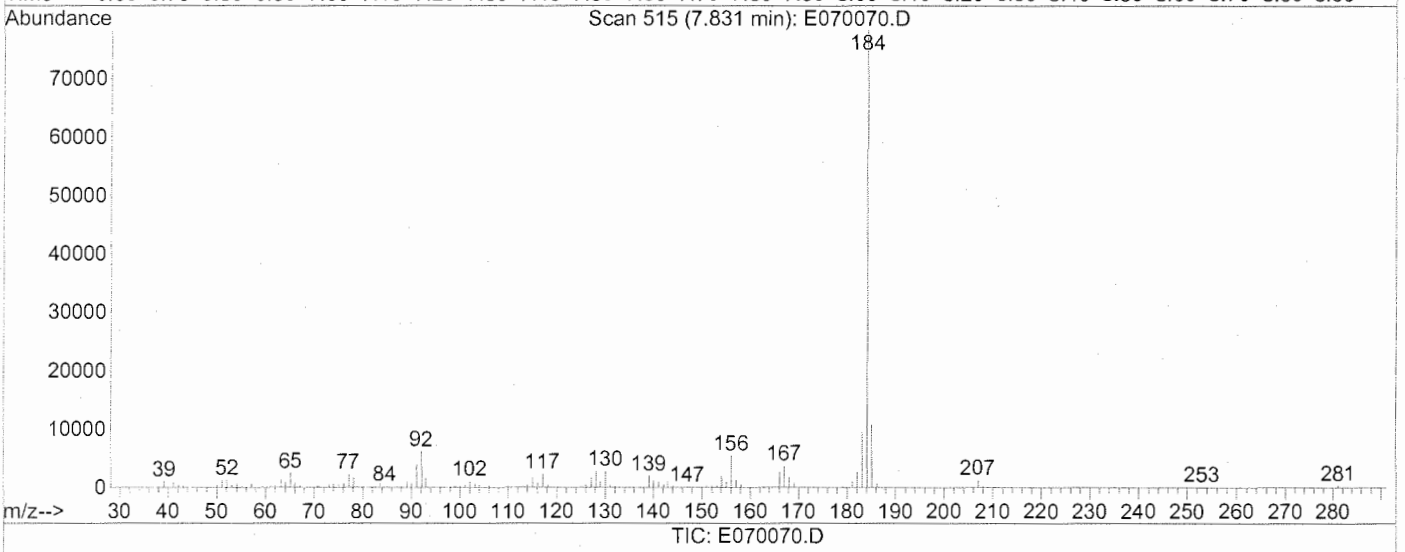
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070119\E070070.D Vial: 1
Acq On : 19 Jan 2007 11:28 am Operator: GJ
Sample : STUN0119 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Jan 19 12:51 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E070070.D

(2) Benzidine

7.83min 0.00

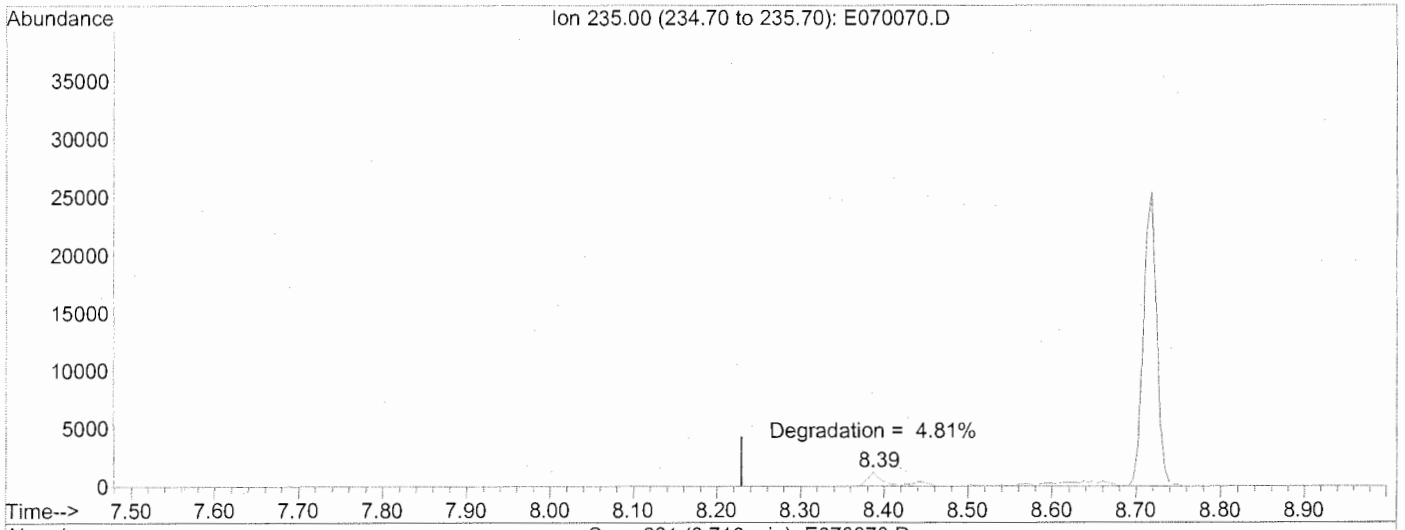
response 974689

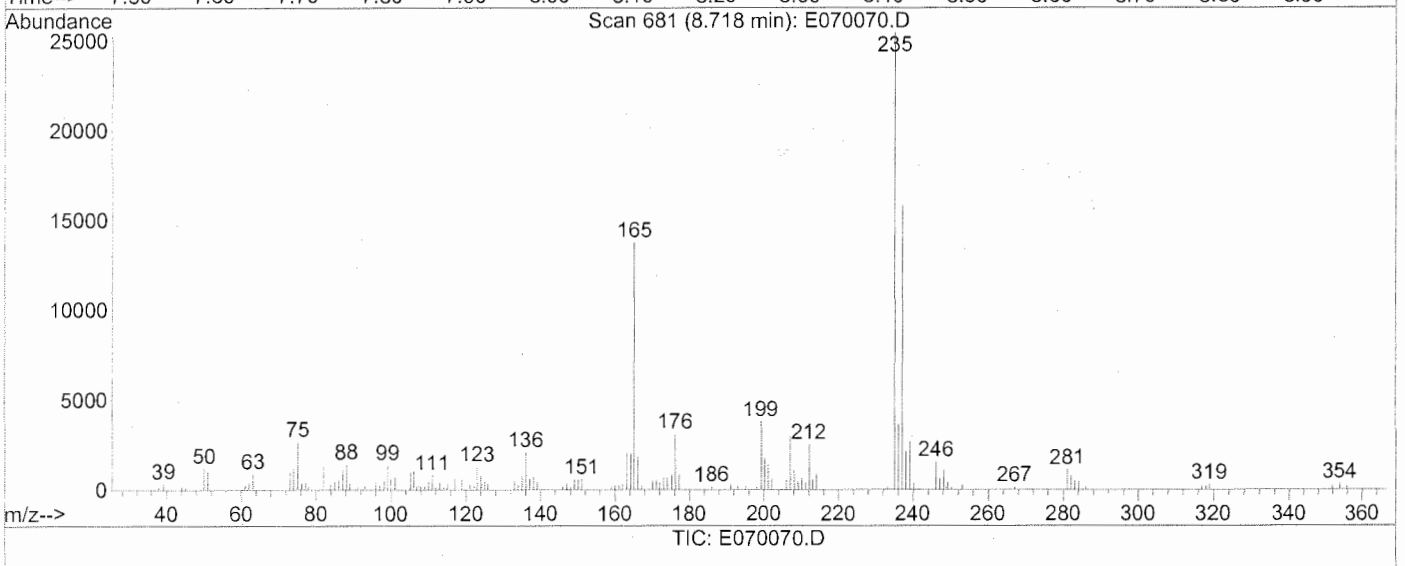
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070119\E070070.D Vial: 1
Acq On : 19 Jan 2007 11:28 am Operator: GJ
Sample : STUN0119 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Jan 19 12:51 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E070070.D

(4) 4,4-DDT

8.72min 0.00

response 280655

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/19/2007

Analysis Lot:	DWG0700131	**Prep Lot:**		**Report Group:**	
Analysis Method:	8270C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070119\E070070.D	**Method ID:**	MJ360
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070071.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 11:45	**Quant Date:**	01/19/2007 12:39	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700131-2			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	-0.08?	152	139800	40.00	OK
2	Naphthalene-d8	7.94	-0.08?	136	559812	40.00	OK
3	Acenaphthene-d10	10.18	-0.08?	164	318901	40.00	OK
4	Phenanthrene-d10	12.05	-0.10?	188	510031	40.00	OK
5	Chrysene-d12	16.64	-0.15?	240	275800	40.00	OK
6	Perylene-d12	19.70	-0.21?	264	136739	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67			112	230953	51.89		23-115	NA	
1	Phenol-d5	5.82			99	306499	53.13		23-121	NA	
2	Nitrobenzene-d5	7.03			82	251045	53.08		42-122	NA	
3	2-Fluorobiphenyl	9.31			172	532045	52.91		47-110	NA	
4	2,4,6-Tribromophenol	11.17			330	59561	48.69		31-112	NA	
5	Terphenyl-d14	14.55			244	401604	52.10		37-130	NA	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.95			88	104428	51.01			
1	N-Nitrosodimethylamine	3.31			42	131124	49.26			
1	Pyridine	3.33			79	272911	51.36			
1	PGMEA	4.57			43	433911	45.09			
1	Phenol	5.84			94	323764	53.27			
1	Aniline	5.90			93	325511	46.26			
1	Bis(2-chloroethyl) Ether	5.95			93	259208	51.83			
1	2-Chlorophenol	6.05			128	274245	53.24			
1	1,3-Dichlorobenzene	6.24			146	298391	52.93			
1	1,4-Dichlorobenzene	6.30			146	302908	52.61			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070071.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 11:45	**Quant Date:**	01/19/2007 12:39	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700131-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.46			108	169625	51.64			
1	1,2-Dichlorobenzene	6.55			146	285149	53.08			
1	1-Methyl-2-pyrrolidinone	6.59			99	179111	54.82			
1	2-Methylphenol	6.63			108	235872	52.18			
1	Bis(2-Chloroisopropyl)ether	6.66			45	436775	45.80			
1	4-Methylphenol	6.80			107	306619	53.57			
1	N-Nitrosodi-n-propylamine	6.84			70	182024	53.86			
1	Hexachloroethane	6.95			117	111999	52.88			
2	Nitrobenzene	7.06			77	263781	53.06			
2	Isophorone	7.34			82	482092	54.09			
2	2-Nitrophenol	7.46			139	147602	52.72			
2	2,4-Dimethylphenol	7.48			122	242518	53.48			
2	Benzoic acid	7.74			122	799526	268.06			
2	bis(2-Chloroethoxy)methane	7.61			93	292851	52.29			
2	2,4-Dichlorophenol	7.76			162	212537	55.33			
2	1,2,4-Trichlorobenzene	7.87			180	215585	52.11			
2	Naphthalene	7.97			128	769481	52.47			
2	4-Chloroaniline	8.04			127	261341	50.98			
2	Hexachlorobutadiene	8.17			225	104434	48.00			
2	4-Chloro-3-methylphenol	8.63			107	221244	56.38			
2	2-Methylnaphthalene	8.84			142	529609	53.50			
3	Hexachlorocyclopentadiene	9.11			237	102223	40.29			
3	2,4,6-Trichlorophenol	9.22			196	141198	53.75			
3	2,4,5-Trichlorophenol	9.27			196	150272	52.80			
3	2-Chloronaphthalene	9.46			162	463548	51.57			
3	2-Nitroaniline	9.61			65	139564	50.52			
3	Dimethyl Phthalate	9.85			163	528244	53.58			
3	Acenaphthylene	9.99			152	773693	52.94			
3	2,6-Dinitrotoluene	9.94			165	124587	54.05			
3	3-Nitroaniline	10.13			138	98357	48.82			
3	Acenaphthene	10.22			154	477610	49.57			
3	2,4-Dinitrophenol	10.25			184	127322	92.53			
3	4-Nitrophenol	10.31			109	114153	101.06			
3	Dibenzofuran	10.42			168	676293	53.71			
3	2,4-Dinitrotoluene	10.43			165	162733	55.26			
3	Fluorene	10.85			166	557413	54.39			
3	Diethyl Phthalate	10.72			149	539961	54.37			
3	4-Chlorophenyl Phenyl Ether	10.82			204	239809	54.19			
3	4-Nitroaniline	10.90			138	98879	52.78			
4	2-Methyl-4,6-dinitrophenol	10.95			198	165931	97.53			
4	N-Nitrosodiphenylamine	10.97			169	337589	46.36			
4	Azobenzene	11.02			77	522135	50.08			
4	4-Bromophenyl Phenyl Ether	11.43			248	123635	46.15			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070071.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 11:45	**Quant Date:**	01/19/2007 12:39	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700131-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.65			284	126172	44.74			
4	Pentachlorophenol	11.87			266	162467	86.92			
4	Phenanthrene	12.08			178	740069	51.84			
4	Anthracene	12.15			178	747095	53.49			
4	Carbazole	12.36			167	535782	64.85			
4	Di-n-butyl Phthalate	12.88			149	910968	58.29			
4	Fluoranthene	13.91			202	695017	57.14			
5	Benzidine	14.10			184	120523	34.55			
5	Pyrene	14.31			202	677378	56.83			
5	Butyl Benzyl Phthalate	15.51			149	336976	62.82			
5	3,3'-Dichlorobenzidine	16.56			252	165244	84.16			
5	Benz(a)anthracene	16.60			228	418726	52.27			
5	Chrysene	16.69			228	391433	52.05			
5	Bis(2-ethylhexyl) Phthalate	16.72			149	486397	69.87			
5	Mirex	17.50			272	44678	29.82			
6	Di-n-octyl Phthalate	17.99			149	694333	78.75			
6	Benzo(b)fluoranthene	18.84			252	269893**m**	54.43			
6	Benzo(k)fluoranthene	18.89			252	277598	57.75			
6	Benzo(a)pyrene	19.57			252	221375	56.67			
6	Indeno(1,2,3-cd)pyrene	22.74			276	170828	54.10			
6	Dibenz(a,h)anthracene	22.78			278	149220	54.87			
6	Benzo(g,h,i)perylene	23.63			276	130485	50.10			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Mauual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 12:39:06 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	139800	40.00	mg/L	-0.07
22) Naphthalene-d8	7.94	136	559812	40.00	mg/L	-0.08
37) Acenaphthene-d10	10.18	164	318901	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	510031	40.00	mg/L	-0.10
70) Chrysene-d12	16.64	240	275800	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	136739	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	230953	51.89	mg/L	-0.06
Spiked Amount 50.000			Recovery = 103.78%			
7) Phenol-d5	5.82	99	306499	53.13	mg/L	-0.05
Spiked Amount 50.000			Recovery = 106.26%			
23) Nitrobenzene-d5	7.03	82	251045	53.08	mg/L	-0.07
Spiked Amount 50.000			Recovery = 106.16%			
41) 2-Fluorobiphenyl	9.31	172	532045	52.91	mg/L	-0.08
Spiked Amount 50.000			Recovery = 105.82%			
61) 2,4,6-Tribromophenol	11.17	330	59561	48.69	mg/L	-0.09
Spiked Amount 50.000			Recovery = 97.38%			
73) Terphenyl-d14	14.55	244	401604	52.10	mg/L	-0.13
Spiked Amount 50.000			Recovery = 104.20%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.95	88	104428	51.01	mg/L #	83
3) N-Nitrosodimethylamine	3.31	42	131124	49.26	mg/L	93
4) Pyridine	3.33	79	272911	51.36	mg/L #	68
5) PGMEA	4.57	43	433911	45.09	mg/L #	90
8) Phenol	5.84	94	323764	53.27	mg/L	91
9) Aniline	5.90	93	325511	46.26	mg/L	97
10) Bis(2-chloroethyl)ether	5.95	93	259208	51.83	mg/L	98
11) 2-Chlorophenol	6.05	128	274245	53.24	mg/L	97
12) 1,3-Dichlorobenzene	6.24	146	298391	52.93	mg/L	99
13) 1,4-Dichlorobenzene	6.30	146	302908	52.61	mg/L	99
14) Benzyl alcohol	6.46	108	169625	51.64	mg/L #	79
15) 1,2-Dichlorobenzene	6.55	146	285149	53.08	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.59	99	179111	54.82	mg/L	100
17) 2-Methylphenol	6.63	108	235872	52.18	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.66	45	436775	45.80	mg/L #	83
19) 4-Methylphenol	6.80	107	306619	53.57	mg/L #	92
20) N-Nitrosodi-n-propylamine	6.84	70	182024	53.86	mg/L #	84
21) Hexachloroethane	6.95	117	111999	52.88	mg/L #	79
24) Nitrobenzene	7.06	77	263781	53.06	mg/L #	84
25) Isophorone	7.34	82	482092	54.09	mg/L	94
26) 2-Nitrophenol	7.46	139	147602	52.72	mg/L #	89
27) 2,4-Dimethylphenol	7.48	122	242518	53.48	mg/L	84
28) Benzoic acid	7.74	122	799526	268.06	mg/L #	83
29) Bis(2-chloroethoxy)methane	7.61	93	292851	52.29	mg/L #	95
30) 2,4-Dichlorophenol	7.76	162	212537	55.33	mg/L	98
31) 1,2,4-Trichlorobenzene	7.87	180	215585	52.11	mg/L	99
32) Naphthalene	7.97	128	769481	52.47	mg/L	99
33) 4-Chloroaniline	8.04	127	261341	50.98	mg/L	95
34) Hexachlorobutadiene	8.17	225	104434	48.00	mg/L	100
35) 4-Chloro-3-methylphenol	8.63	107	221244	56.38	mg/L	94
36) 2-Methylnaphthalene	8.84	142	529609	53.50	mg/L	99
38) Hexachlorocyclopentadiene	9.11	237	102223	40.29	mg/L	98

(#) = qualifier out of range (m) = manual integration
E070071.D BA061226.M Fri Jan 19 12:39:48 2007 GJ 1/19/07 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 12:39:06 2007 Quant Results File: BA061226.RES

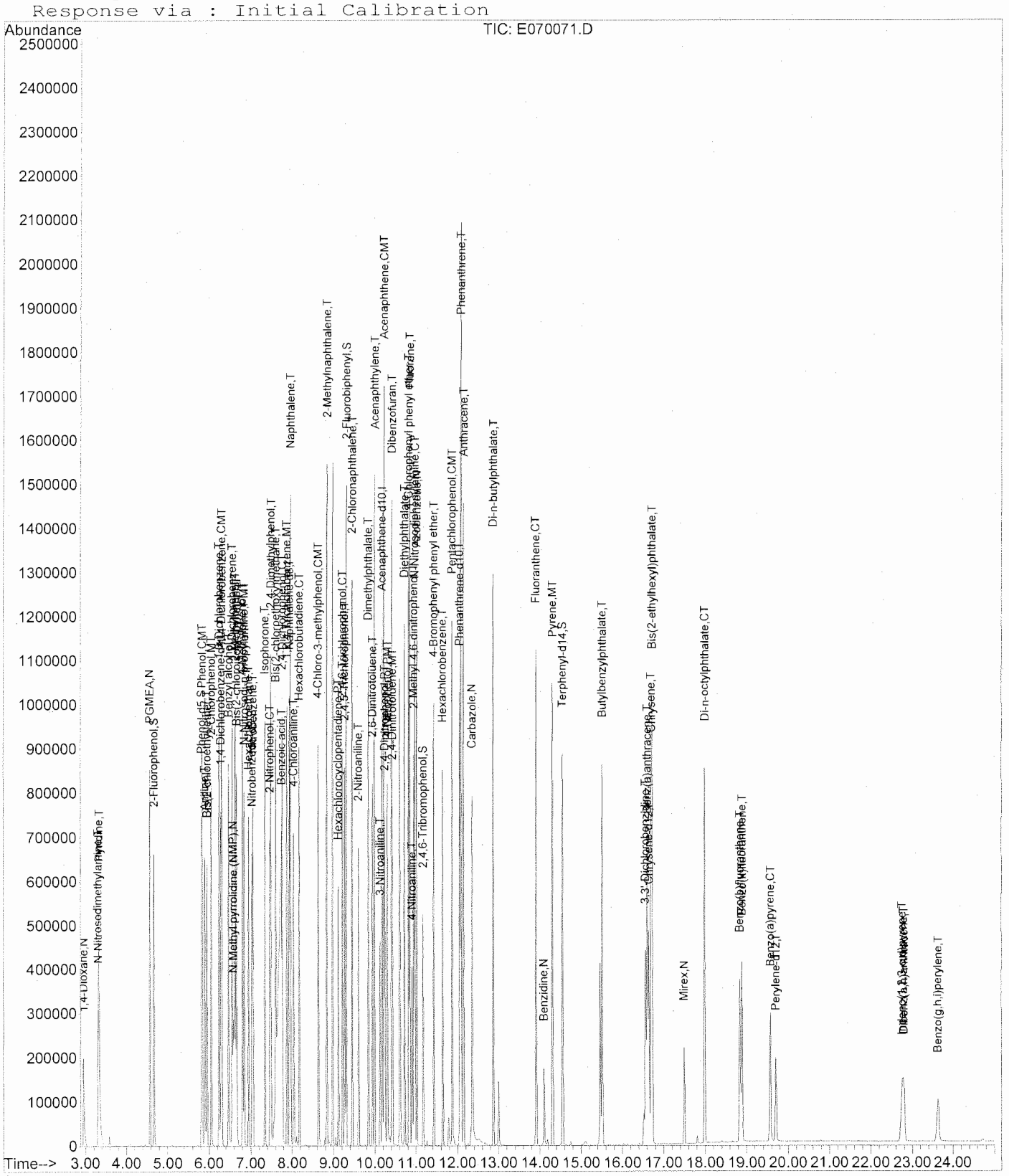
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.22	196	141198	53.75	mg/L		99
40)	2,4,5-Trichlorophenol	9.27	196	150272	52.80	mg/L	#	97
42)	2-Chloronaphthalene	9.46	162	463548	51.57	mg/L		97
43)	2-Nitroaniline	9.61	65	139564	50.52	mg/L		87
44)	Dimethylphthalate	9.85	163	528244	53.58	mg/L		97
45)	Acenaphthylene	9.99	152	773693	52.94	mg/L		99
46)	2,6-Dinitrotoluene	9.94	165	124587	54.05	mg/L		93
47)	3-Nitroaniline	10.13	138	98357	48.82	mg/L		87
48)	Acenaphthene	10.22	154	477610	49.57	mg/L		94
49)	2,4-Dinitrophenol	10.25	184	127322	92.53	mg/L	#	58
50)	4-Nitrophenol	10.31	109	114153	101.06	mg/L	#	55
51)	Dibenzofuran	10.42	168	676293	53.71	mg/L		95
52)	2,4-Dinitrotoluene	10.43	165	162733	55.26	mg/L	#	90
53)	Fluorene	10.85	166	557413	54.39	mg/L		98
54)	Diethylphthalate	10.72	149	539961	54.37	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.82	204	239809	54.19	mg/L		92
56)	4-Nitroaniline	10.90	138	98879	52.78	mg/L	#	82
58)	2-Methyl-4,6-dinitrophenol	10.95	198	165931	97.53	mg/L	#	87
59)	N-Nitrosodiphenylamine	10.97	169	337589	46.36	mg/L		93
60)	Azobenzene	11.02	77	522135	50.08	mg/L	#	97
62)	4-Bromophenyl phenyl ether	11.43	248	123635	46.15	mg/L		93
63)	Hexachlorobenzene	11.65	284	126172	44.74	mg/L		92
64)	Pentachlorophenol	11.87	266	162467	86.92	mg/L		99
65)	Phenanthrene	12.08	178	740069	51.84	mg/L		100
66)	Anthracene	12.15	178	747095	53.49	mg/L		99
67)	Carbazole	12.36	167	535782	64.85	mg/L		98
68)	Di-n-butylphthalate	12.88	149	910968	58.29	mg/L		99
69)	Fluoranthene	13.91	202	695017	57.14	mg/L	#	94
71)	Benzidine	14.10	184	120523	34.55	mg/L	#	97
72)	Pyrene	14.31	202	677378	56.83	mg/L		99
74)	Butylbenzylphthalate	15.51	149	336976	62.82	mg/L		94
75)	3,3'-Dichlorobenzidine	16.56	252	165244	84.16	mg/L	#	96
76)	Benz(a)anthracene	16.60	228	418726	52.27	mg/L		99
77)	Chrysene	16.69	228	391433	52.05	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.72	149	486397	69.87	mg/L		98
79)	Mirex	17.50	272	44678	29.82	mg/L		99
81)	Di-n-octylphthalate	17.99	149	694333	78.75	mg/L		100
82)	Benzo(b)fluoranthene	18.84	252	269893m	54.43	mg/L		
83)	Benzo(k)fluoranthene	18.89	252	277598	57.75	mg/L	#	93
84)	Benzo(a)pyrene	19.57	252	221375	56.67	mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	22.74	276	170828	54.10	mg/L	#	83
86)	Dibenz(a,h)anthracene	22.78	278	149220	54.87	mg/L		97
87)	Benzo(g,h,i)perylene	23.63	276	130485	50.10	mg/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 12:39 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	74	-0.07
2	N	1,4-Dioxane	0.586	0.598	-2.0	76	-0.06
3	T	N-Nitrosodimethylamine	0.762	0.750	1.6	74	-0.06
4	T	Pyridine	1.520	1.562	-2.8	76	-0.06
5	N	PGMEA	2.753	2.483	9.8	68	-0.06
6	S	2-Fluorophenol	1.274	1.322	-3.8	76	-0.06
7	S	Phenol-d5	1.651	1.754	-6.2	79	-0.05
8	CMT	Phenol	1.739	1.853	-6.6#	79	-0.05
9	T	Aniline	2.014	1.863	7.5	66	-0.07
10	T	Bis(2-chloroethyl)ether	1.431	1.483	-3.6	78	-0.07
11	MT	2-Chlorophenol	1.474	1.569	-6.4	78	-0.07
12	T	1,3-Dichlorobenzene	1.613	1.708	-5.9	79	-0.07
13	CMT	1,4-Dichlorobenzene	1.647	1.733	-5.2#	79	-0.07
14	T	Benzyl alcohol	0.940	0.971	-3.3	75	-0.07
15	T	1,2-Dichlorobenzene	1.537	1.632	-6.2	79	-0.07
16	N	N-Methyl pyrrolidine (NMP)	0.935	1.025	-9.6	79	-0.09
17	T	2-Methylphenol	1.293	1.350	-4.4	77	-0.06
18	T	Bis(2-chloroisopropyl)ether	2.729	2.499	8.4	69	-0.07
19	T	4-Methylphenol	1.638	1.755	-7.1	79	-0.06
20	PMT	N-Nitrosodi-n-propylamine	0.967	1.042	-7.8	78	-0.07
21	T	Hexachloroethane	0.606	0.641	-5.8	79	-0.07
22	I	Naphthalene-d8	1.000	1.000	0.0	75	-0.08
23	S	Nitrobenzene-d5	0.338	0.359	-6.2	78	-0.07
24	T	Nitrobenzene	0.355	0.377	-6.2	79	-0.07
25	T	Isophorone	0.637	0.689	-8.2	78	-0.08
26	CT	2-Nitrophenol	0.200	0.211	-5.5#	80	-0.07
27	T	2,4-Dimethylphenol	0.324	0.347	-7.1	79	-0.06
28	T	Benzoic acid	0.213	0.229	-7.5	75	-0.08
29	T	Bis(2-chloroethoxy)methane	0.400	0.418	-4.5	78	-0.07
30	CT	2,4-Dichlorophenol	0.274	0.304	-10.9#	81	-0.07
31	MT	1,2,4-Trichlorobenzene	0.296	0.308	-4.1	78	-0.08
32	T	Naphthalene	1.048	1.100	-5.0	79	-0.08
33	T	4-Chloroaniline	0.366	0.373	-1.9	68	-0.07
34	CT	Hexachlorobutadiene	0.155	0.149	3.9#	71	-0.08
35	CMT	4-Chloro-3-methylphenol	0.280	0.316	-12.9#	80	-0.06
36	T	2-Methylnaphthalene	0.707	0.757	-7.1	80	-0.08
37	I	Acenaphthene-d10	1.000	1.000	0.0	77	-0.09
38	PT	Hexachlorocyclopentadiene	0.318	0.256	19.5	60	-0.08
39	CT	2,4,6-Trichlorophenol	0.329	0.354	-7.6#	80	-0.07
40	T	2,4,5-Trichlorophenol	0.357	0.377	-5.6	79	-0.07
41	S	2-Fluorobiphenyl	1.261	1.335	-5.9	82	-0.08
42	T	2-Chloronaphthalene	1.127	1.163	-3.2	79	-0.08
43	T	2-Nitroaniline	0.347	0.350	-0.9	74	-0.08
44	T	Dimethylphthalate	1.237	1.325	-7.1	81	-0.08
45	T	Acenaphthylene	1.833	1.941	-5.9	81	-0.09
46	T	2,6-Dinitrotoluene	0.289	0.313	-8.3	80	-0.09
47	T	3-Nitroaniline	0.238	0.247	-3.8	72	-0.07
48	CMT	Acenaphthene	1.208	1.198	0.8#	73	-0.09
49	PT	2,4-Dinitrophenol	0.173	0.160	7.5	69	-0.09
50	PMT	4-Nitrophenol	0.142	0.143	-0.7	74	-0.06
51	T	Dibenzofuran	1.579	1.697	-7.5	82	-0.09

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

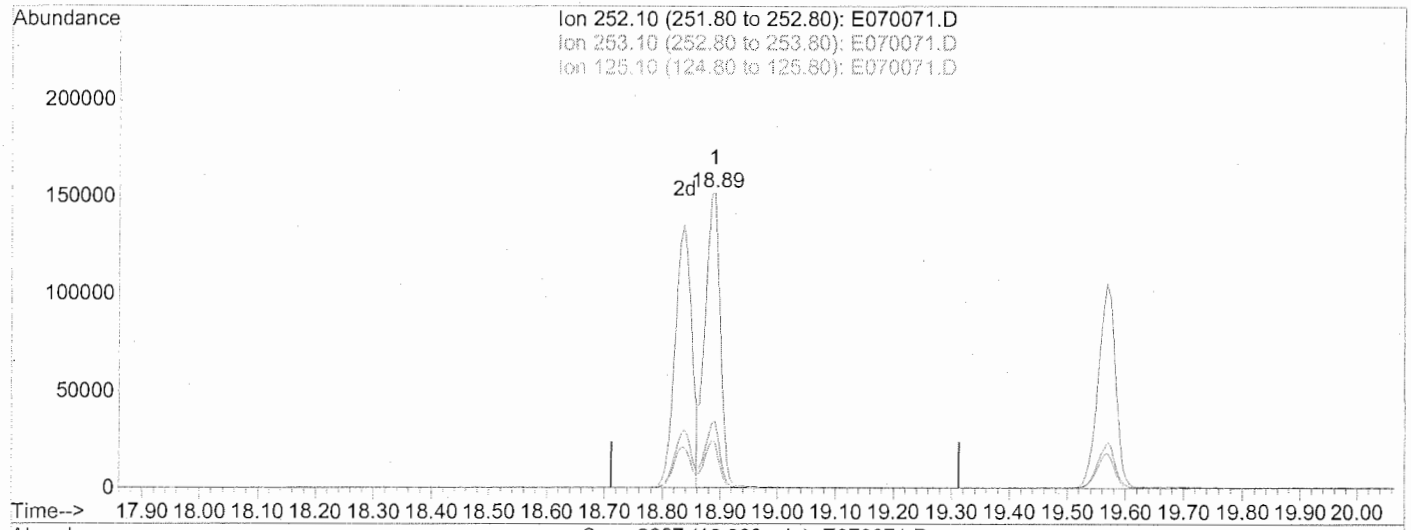
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
52	MT	2,4-Dinitrotoluene	0.369	0.408	-10.6	81	-0.09	
53	T	Fluorene	1.285	1.398	-8.8	83	-0.09	
54	T	Diethylphthalate	1.246	1.355	-8.7	82	-0.09	
55	T	4-Chlorophenyl phenyl ether	0.555	0.602	-8.5	83	-0.09	
56	T	4-Nitroaniline	0.210	0.248	-18.1	82	-0.09	
57	I	Phenanthrene-d10	1.000	1.000	0.0	82	-0.10	
58	T	2-Methyl-4,6-dinitrophenol	0.133	0.130	2.3	75	-0.09	
59	CT	N-Nitrosodiphenylamine	0.571	0.530	7.2#	77	-0.09	
60	N	Azobenzene	0.818	0.819	-0.1	81	-0.09	
61	S	2,4,6-Tribromophenol	0.096	0.093	3.1	76	-0.09	
62	T	4-Bromophenyl phenyl ether	0.210	0.194	7.6	75	-0.10	
63	T	Hexachlorobenzene	0.221	0.198	10.4	73	-0.10	
64	CMT	Pentachlorophenol	0.147	0.127	13.6#	68	-0.09	
65	T	Phenanthrene	1.120	1.161	-3.7	86	-0.11	
66	T	Anthracene	1.095	1.172	-7.0	87	-0.10	
67	N	Carbazole	0.702	0.840	-19.7	130	-0.10	
68	T	Di-n-butylphthalate	1.226	1.429	-16.6	91	-0.11	
69	CT	Fluoranthene	0.954	1.090	-14.3#	93	-0.13	
70	I	Chrysene-d12	1.000	1.000	0.0	90	-0.15	
71	N	Benzidine	0.506	0.175	65.4#	32#	-0.12	NT
72	MT	Pyrene	1.729	1.965	-13.6	95	-0.13	
73	S	Terphenyl-d14	1.118	1.165	-4.2	86	-0.13	
74	T	Butylbenzylphthalate	0.778	0.977	-25.6#	102	-0.14	
75	T	3,3'-Dichlorobenzidine	0.294	0.240	18.4	78	-0.15	
76	T	Benz(a)anthracene	1.162	1.215	-4.6	93	-0.15	
77	T	Chrysene	1.091	1.135	-4.0	95	-0.15	
78	T	Bis(2-ethylhexyl)phthalate	1.010	1.411	-39.7#	111	-0.15	
79	N	Mirex	0.217	0.259	-19.4	94	-0.16	
80	I	Perylene-d12	1.000	1.000	0.0	95	-0.21	
81	CT	Di-n-octylphthalate	2.579	4.062	-57.5#	114	-0.15	high
82	T	Benzo(b)fluoranthene	1.451	1.579	-8.8	99	-0.18	
83	T	Benzo(k)fluoranthene	1.406	1.624	-15.5	109	-0.18	
84	CT	Benzo(a)pyrene	1.143	1.295	-13.3#	106	-0.21	
85	T	Indeno(1,2,3-c,d)pyrene	0.924	0.999	-8.1	108	0.00	
86	T	Dibenz(a,h)anthracene	0.795	0.873	-9.8	109	-0.01	
87	T	Benzo(g,h,i)perylene	0.762	0.763	-0.1	100	-0.01	

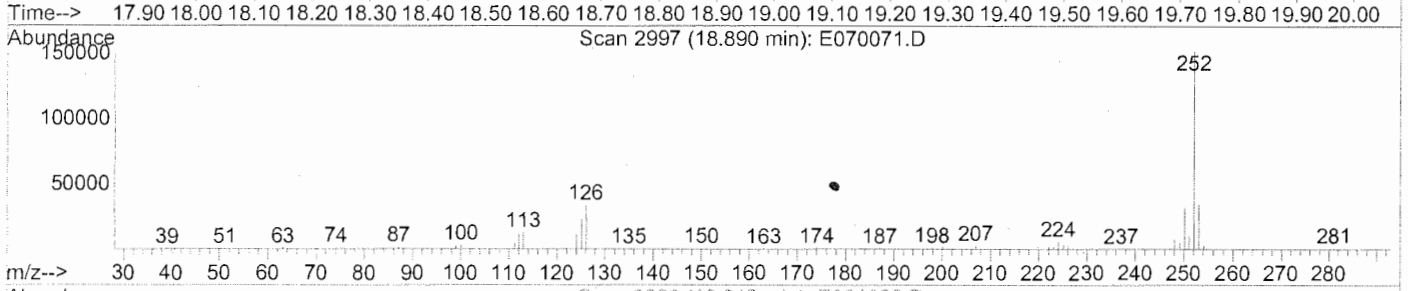
(#) = Out of Range SPCC's out = 0 CCC's out = 13
E070071.D BA061226.M Fri Jan 19 12:39:55 2007 Page 2

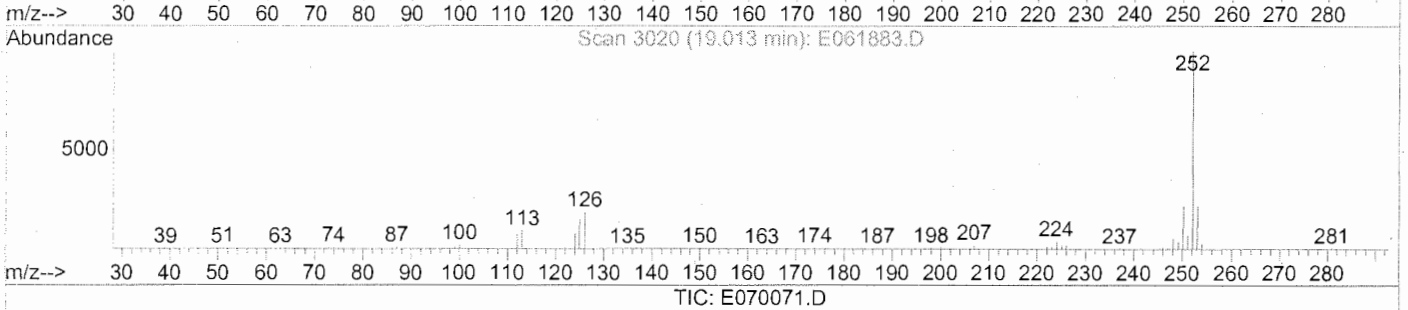
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 12:39 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration







TIC: E070071.D

(82) Benzo(b)fluoranthene (T)

18.89min 56.03mg/L

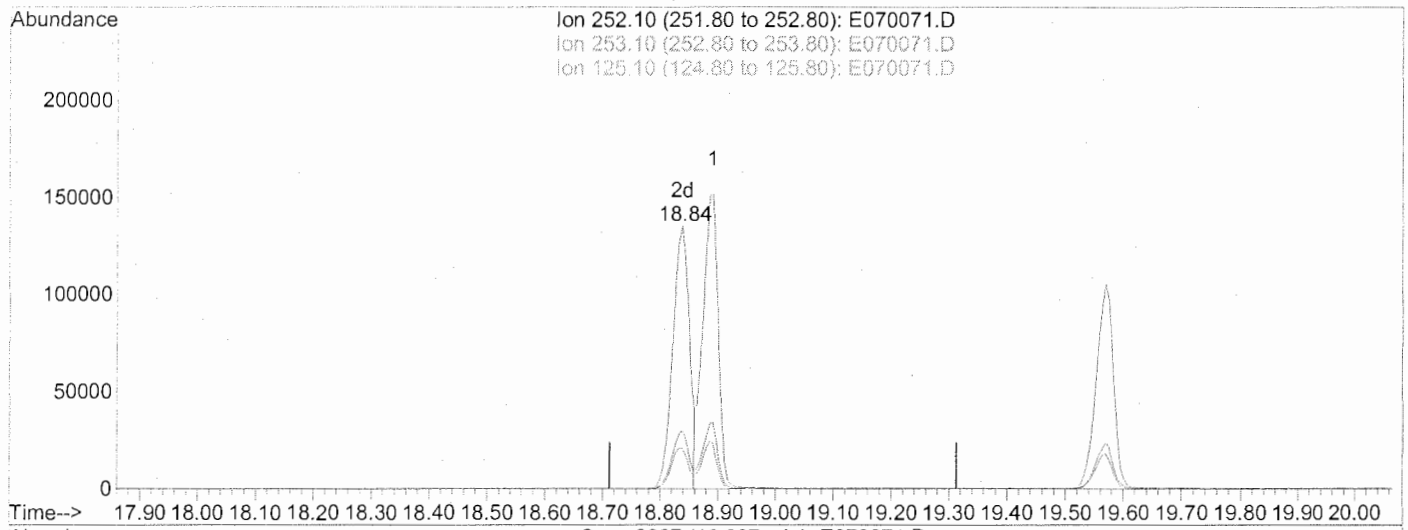
response 277811

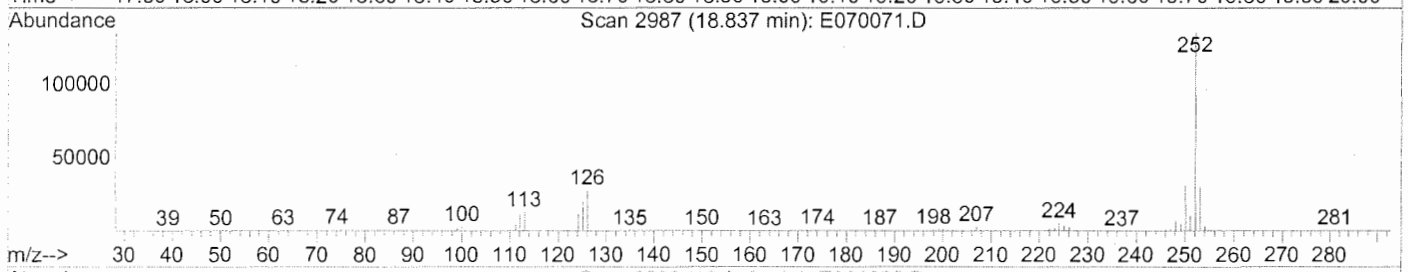
Ion	Exp%	Act%
252.10	100	100
253.10	22.10	22.10
125.10	7.90	15.95#
0.00	0.00	0.00

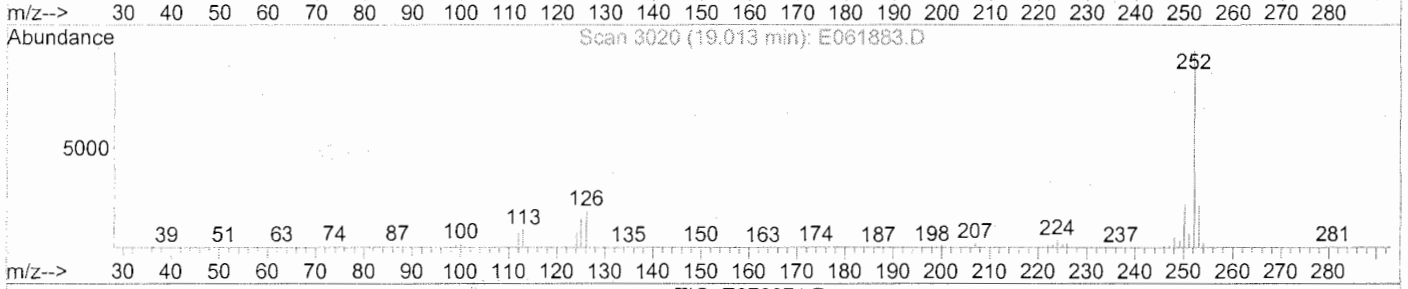
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 12:39 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration







TIC: E070071.D

(82) Benzo(b)fluoranthene (T)

18.84min 54.43mg/L m

response 269893

Ion	Exp%	Act%
252.10	100	100
253.10	22.10	22.75
125.10	7.90	16.42#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 12:39:06 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	139800	40.00	mg/L		-0.07
22) Naphthalene-d8	7.94	136	559812	40.00	mg/L		-0.08
37) Acenaphthene-d10	10.18	164	318901	40.00	mg/L		-0.09
57) Phenanthrene-d10	12.05	188	510031	40.00	mg/L		-0.10
70) Chrysene-d12	16.64	240	275800	40.00	mg/L		-0.15
80) Perylene-d12	19.70	264	136739	40.00	mg/L		-0.21
System Monitoring Compounds							
6) 2-Fluorophenol	4.67	112	230953	51.89	mg/L		-0.06
Spiked Amount 50.000			Recovery = 103.78%				
7) Phenol-d5	5.82	99	306499	53.13	mg/L		-0.05
Spiked Amount 50.000			Recovery = 106.26%				
23) Nitrobenzene-d5	7.03	82	251045	53.08	mg/L		-0.07
Spiked Amount 50.000			Recovery = 106.16%				
41) 2-Fluorobiphenyl	9.31	172	532045	52.91	mg/L		-0.08
Spiked Amount 50.000			Recovery = 105.82%				
61) 2,4,6-Tribromophenol	11.17	330	59561	48.69	mg/L		-0.09
Spiked Amount 50.000			Recovery = 97.38%				
73) Terphenyl-d14	14.55	244	401604	52.10	mg/L		-0.13
Spiked Amount 50.000			Recovery = 104.20%				
Target Compounds							Qvalue
2) 1,4-Dioxane	2.95	88	104428	51.01	mg/L	#	83
3) N-Nitrosodimethylamine	3.31	42	131124	49.26	mg/L		93
4) Pyridine	3.33	79	272911	51.36	mg/L	#	68
5) PGMEA	4.57	43	433911	45.09	mg/L	#	90
8) Phenol	5.84	94	323764	53.27	mg/L		91
9) Aniline	5.90	93	325511	46.26	mg/L		97
10) Bis(2-chloroethyl)ether	5.95	93	259208	51.83	mg/L		98
11) 2-Chlorophenol	6.05	128	274245	53.24	mg/L		97
12) 1,3-Dichlorobenzene	6.24	146	298391	52.93	mg/L		99
13) 1,4-Dichlorobenzene	6.30	146	302908	52.61	mg/L		99
14) Benzyl alcohol	6.46	108	169625	51.64	mg/L	#	79
15) 1,2-Dichlorobenzene	6.55	146	285149	53.08	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.59	99	179111	54.82	mg/L		100
17) 2-Methylphenol	6.63	108	235872	52.18	mg/L		98
18) Bis(2-chloroisopropyl)ethe	6.66	45	436775	45.80	mg/L	#	83
19) 4-Methylphenol	6.80	107	306619	53.57	mg/L	#	92
20) N-Nitrosodi-n-propylamine	6.84	70	182024	53.86	mg/L	#	84
21) Hexachloroethane	6.95	117	111999	52.88	mg/L	#	79
24) Nitrobenzene	7.06	77	263781	53.06	mg/L	#	84
25) Isophorone	7.34	82	482092	54.09	mg/L		94
26) 2-Nitrophenol	7.46	139	147602	52.72	mg/L	#	89
27) 2,4-Dimethylphenol	7.48	122	242518	53.48	mg/L		84
28) Benzoic acid	7.74	122	799526	268.06	mg/L	#	83
29) Bis(2-chloroethoxy)methane	7.61	93	292851	52.29	mg/L	#	95
30) 2,4-Dichlorophenol	7.76	162	212537	55.33	mg/L		98
31) 1,2,4-Trichlorobenzene	7.87	180	215585	52.11	mg/L		99
32) Naphthalene	7.97	128	769481	52.47	mg/L		99
33) 4-Chloroaniline	8.04	127	261341	50.98	mg/L		95
34) Hexachlorobutadiene	8.17	225	104434	48.00	mg/L		100
35) 4-Chloro-3-methylphenol	8.63	107	221244	56.38	mg/L		94
36) 2-Methylnaphthalene	8.84	142	529609	53.50	mg/L		99
38) Hexachlorocyclopentadiene	9.11	237	102223	40.29	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 12:39:06 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

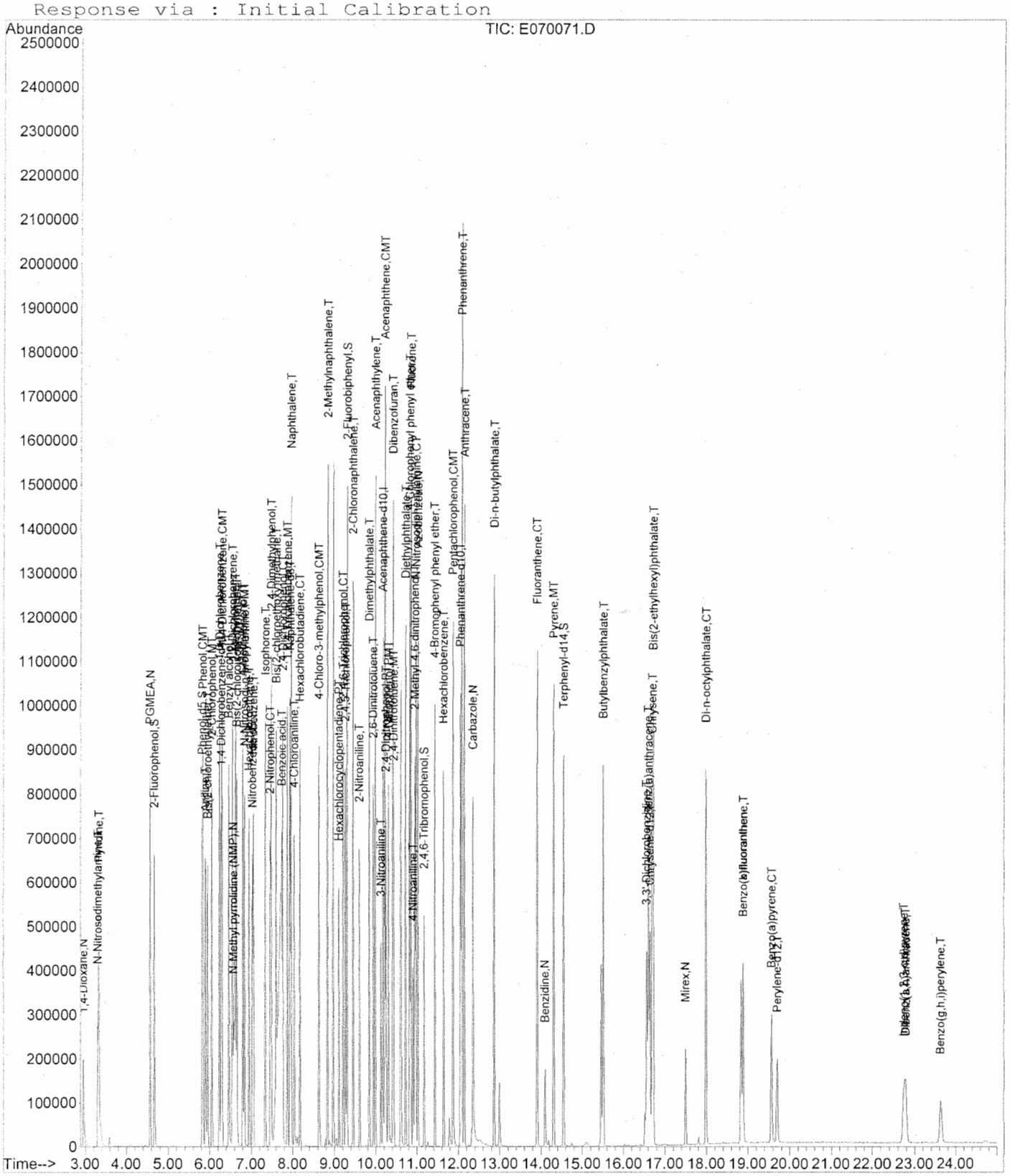
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.22	196	141198	53.75	mg/L		99
40)	2,4,5-Trichlorophenol	9.27	196	150272	52.80	mg/L	#	97
42)	2-Chloronaphthalene	9.46	162	463548	51.57	mg/L		97
43)	2-Nitroaniline	9.61	65	139564	50.52	mg/L		87
44)	Dimethylphthalate	9.85	163	528244	53.58	mg/L		97
45)	Acenaphthylene	9.99	152	773693	52.94	mg/L		99
46)	2,6-Dinitrotoluene	9.94	165	124587	54.05	mg/L		93
47)	3-Nitroaniline	10.13	138	98357	48.82	mg/L		87
48)	Acenaphthene	10.22	154	477610	49.57	mg/L		94
49)	2,4-Dinitrophenol	10.25	184	127322	92.53	mg/L	#	58
50)	4-Nitrophenol	10.31	109	114153	101.06	mg/L	#	55
51)	Dibenzofuran	10.42	168	676293	53.71	mg/L		95
52)	2,4-Dinitrotoluene	10.43	165	162733	55.26	mg/L	#	90
53)	Fluorene	10.85	166	557413	54.39	mg/L		98
54)	Diethylphthalate	10.72	149	539961	54.37	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.82	204	239809	54.19	mg/L		92
56)	4-Nitroaniline	10.90	138	98879	52.78	mg/L	#	82
58)	2-Methyl-4,6-dinitrophenol	10.95	198	165931	97.53	mg/L	#	87
59)	N-Nitrosodiphenylamine	10.97	169	337589	46.36	mg/L		93
60)	Azobenzene	11.02	77	522135	50.08	mg/L	#	97
62)	4-Bromophenyl phenyl ether	11.43	248	123635	46.15	mg/L		93
63)	Hexachlorobenzene	11.65	284	126172	44.74	mg/L		92
64)	Pentachlorophenol	11.87	266	162467	86.92	mg/L		99
65)	Phenanthrene	12.08	178	740069	51.84	mg/L		100
66)	Anthracene	12.15	178	747095	53.49	mg/L		99
67)	Carbazole	12.36	167	535782	64.85	mg/L		98
68)	Di-n-butylphthalate	12.88	149	910968	58.29	mg/L		99
69)	Fluoranthene	13.91	202	695017	57.14	mg/L	#	94
71)	Benzidine	14.10	184	120523	34.55	mg/L	#	97
72)	Pyrene	14.31	202	677378	56.83	mg/L		99
74)	Butylbenzylphthalate	15.51	149	336976	62.82	mg/L		94
75)	3,3'-Dichlorobenzidine	16.56	252	165244	84.16	mg/L	#	96
76)	Benz(a)anthracene	16.60	228	418726	52.27	mg/L		99
77)	Chrysene	16.69	228	391433	52.05	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.72	149	486397	69.87	mg/L		98
79)	Mirex	17.50	272	44678	29.82	mg/L		99
81)	Di-n-octylphthalate	17.99	149	694333	78.75	mg/L		100
82)	Benzo(b)fluoranthene	18.89	252	277811	56.03	mg/L	#	94
83)	Benzo(k)fluoranthene	18.89	252	277598	57.75	mg/L	#	93
84)	Benzo(a)pyrene	19.57	252	221375	56.67	mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	22.74	276	170828	54.10	mg/L	#	83
86)	Dibenz(a,h)anthracene	22.78	278	149220	54.87	mg/L		97
87)	Benzo(g,h,i)perylene	23.63	276	130485	50.10	mg/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070071.D Vial: 2
Acq On : 19 Jan 2007 11:45 am Operator: GJ
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 12:39 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



QC Sample Data

(Batch ID.: DWG0700129)

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/19/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76125	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 14:45	**Quant Date:**	01/19/2007 08:32	**Vial:**	5
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0700129-3			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	134021	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	537245	40.00	OK
3	Acenaphthene-d10	10.17	-0.01?	164	300514	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	458051	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	263920	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	178436	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	174328	40.86	82	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	238846	43.19	86	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	213085	46.94	94	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	439563	46.39	93	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	39376	35.84	72	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	341651	46.32	93	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	PGMEA				43	0d		0.35	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Instrument:**	MSE
Acqu Date:	01/18/2007 14:45 **Quant Date:** 01/19/2007 08:32	**Vial:**	5
Run Type:	MB	**Dilution:**	1.0
Lab ID:	DWG0700129-3	**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol				108	0		0.22	U	
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	1-Methyl-2-pyrrolidinone				99	0		0.19	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0		0.83	U	
2	Benzoic acid				122	0		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0**d**		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	Azobenzene				77	0		0.25	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	

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N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applieable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D		**Instrument:** MSE
Acqu Date:	01/18/2007 14:45	**Quant Date:** 01/19/2007 08:32	**Vial:** 5
Run Type:	MB		**Dilution:** 1.0
Lab ID:	DWG0700129-3		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	
4	Anthracene				178	0		0.21	U	
4	Carbazole				167	0		0.28	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	4415	0.3100	0.310	J	
4	Fluoranthene				202	0		0.21	U	
5	Benzidine				184	0		25	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate	15.50	-0.01	0.00	149	1631	0.3200	0.48	U	
5	3,3'-Dichlorobenzidine	16.55	-0.02	0.00	252	4259	3.06	3.06	J	
5	Benz(a)anthracene				228	0**d**		0.21	U	
5	Chrysene				228	0**d**		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	4926	0.7400	0.740	J	
5	Mirex				272	0		0.21	U	
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene				252	0**d**		0.42	U	
6	Benzo(k)fluoranthene				252	0**d**		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount: 1000 ml **Dilution:** 1.0
Prep Final Vol: 1.0 ml **Unit Factor:** 1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070052.D Vial: 5
Acq On : 18 Jan 2007 2:45 pm Operator: GJ
Sample : MB 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:29:23 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	134021	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	537245	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	300514	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	458051	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	263920	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	178436	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	174328	40.86	mg/L	-0.06
Spiked Amount 50.000			Recovery =	81.72%		
7) Phenol-d5	5.81	99	238846	43.19	mg/L	-0.06
Spiked Amount 50.000			Recovery =	86.38%		
23) Nitrobenzene-d5	7.03	82	213085	46.94	mg/L	-0.08
Spiked Amount 50.000			Recovery =	93.88%		
41) 2-Fluorobiphenyl	9.30	172	439563	46.39	mg/L	-0.09
Spiked Amount 50.000			Recovery =	92.78%		
61) 2,4,6-Tribromophenol	11.17	330	39376	35.84	mg/L	-0.10
Spiked Amount 50.000			Recovery =	71.68%		
73) Terphenyl-d14	14.55	244	341651	46.32	mg/L	-0.13
Spiked Amount 50.000			Recovery =	92.64%		
Target Compounds						Qvalue
68) Di-n-butylphthalate	12.86	149	4415	0.31	mg/L #	94
74) Butylbenzylphthalate	15.50	149	1631	0.32	mg/L #	92
75) 3,3'-Dichlorobenzidine	16.55	252	4259	3.06	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	16.72	149	4926	0.74	mg/L #	94

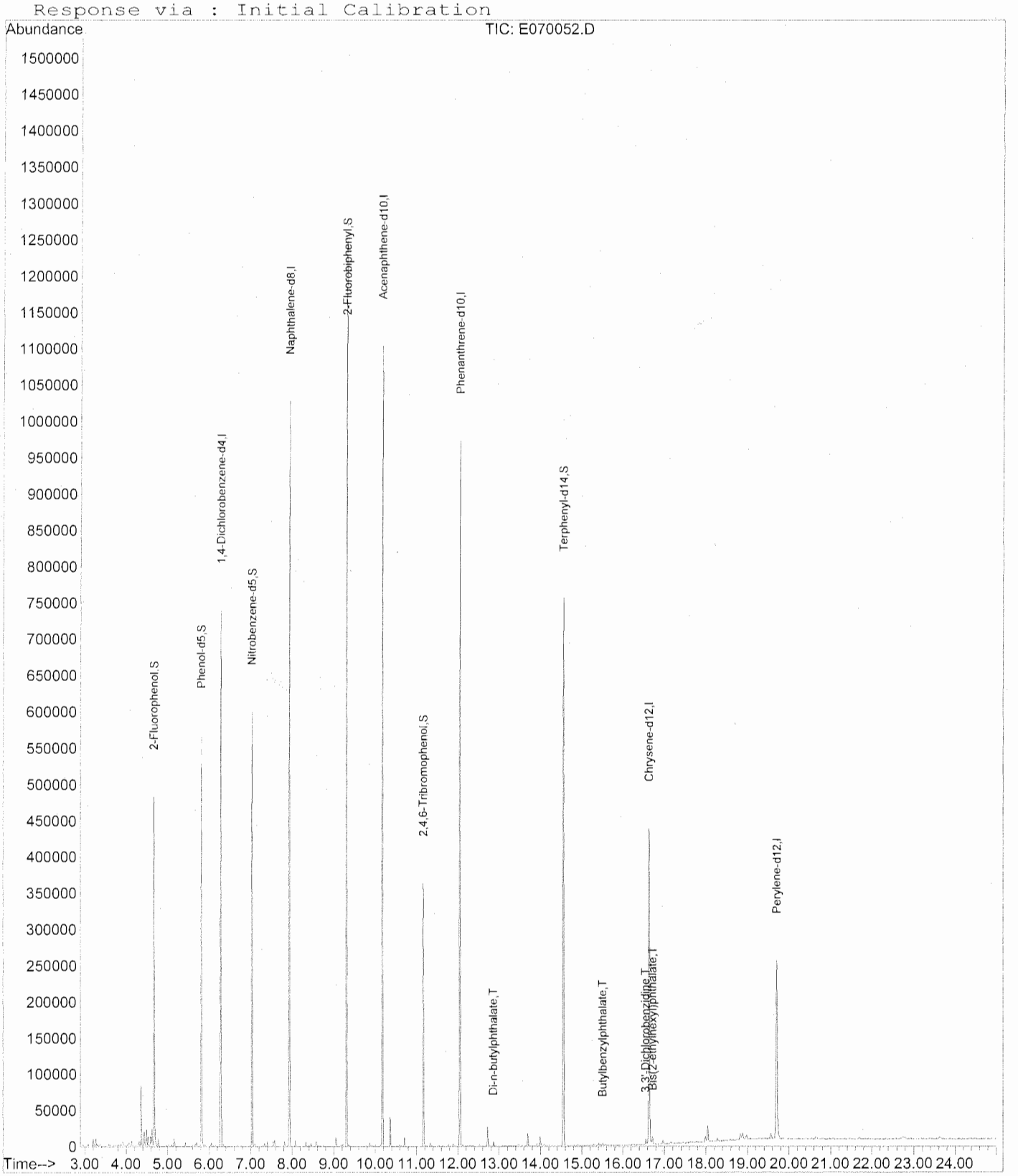
1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070052.D Vial: 5
Acq On : 18 Jan 2007 2:45 pm Operator: GJ
Sample : MB 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:32 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070052.D Vial: 5
Acq On : 18 Jan 2007 2:45 pm Operator: GJ
Sample : MB 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:29:23 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

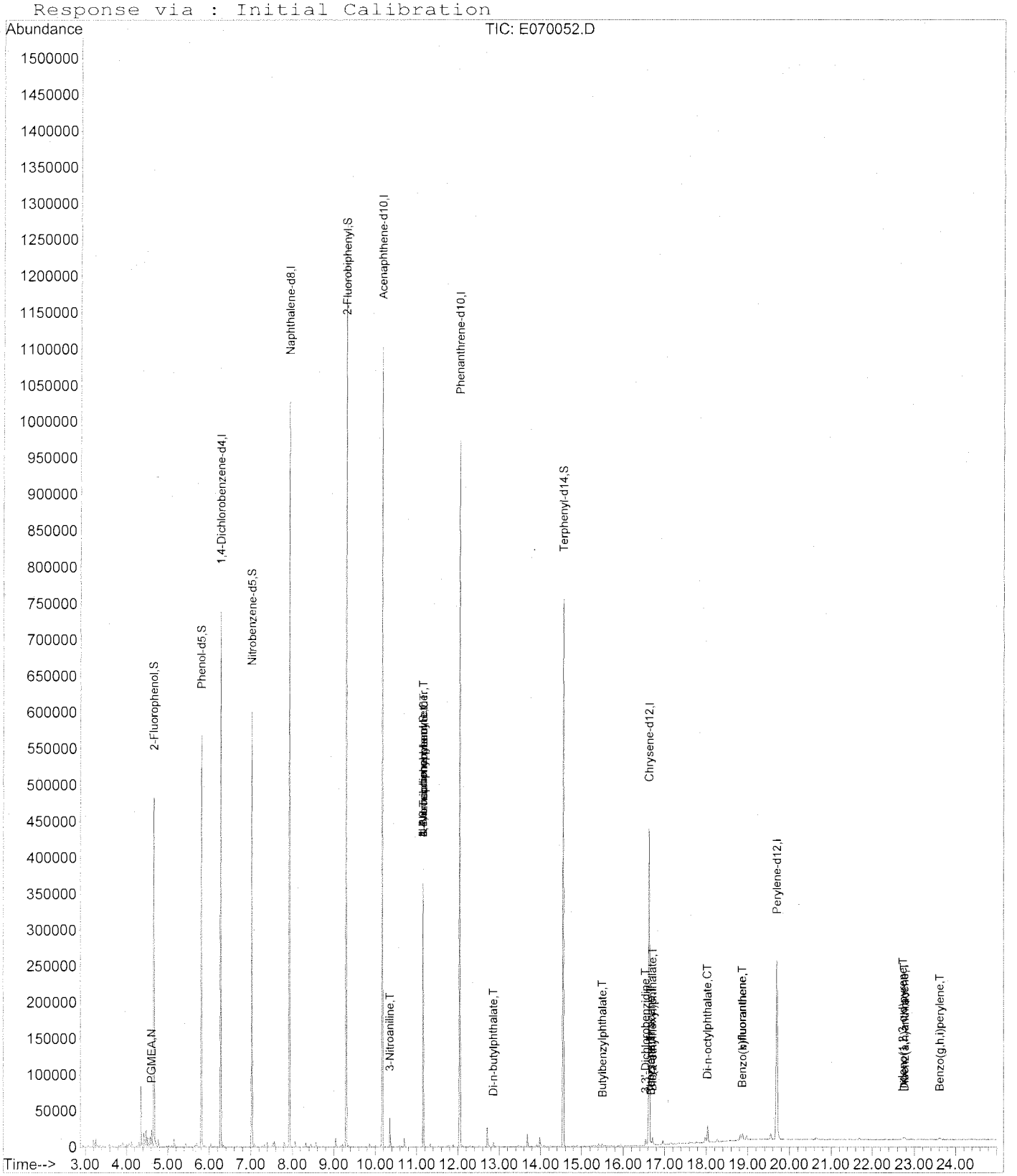
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	134021	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	537245	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	300514	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	458051	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	263920	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	178436	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	174328	40.86	mg/L	-0.06
Spiked Amount 50.000			Recovery =	81.72%		
7) Phenol-d5	5.81	99	238846	43.19	mg/L	-0.06
Spiked Amount 50.000			Recovery =	86.38%		
23) Nitrobenzene-d5	7.03	82	213085	46.94	mg/L	-0.08
Spiked Amount 50.000			Recovery =	93.88%		
41) 2-Fluorobiphenyl	9.30	172	439563	46.39	mg/L	-0.09
Spiked Amount 50.000			Recovery =	92.78%		
61) 2,4,6-Tribromophenol	11.17	330	39376	35.84	mg/L	-0.10
Spiked Amount 50.000			Recovery =	71.68%		
73) Terphenyl-d14	14.55	244	341651	46.32	mg/L	-0.13
Spiked Amount 50.000			Recovery =	92.64%		
Target Compounds						Qvalue
5) PGMEA	4.62	43	2656	0.29	mg/L #	59
47) 3-Nitroaniline	10.36	138	134	1.85	mg/L #	1
59) N-Nitrosodiphenylamine	11.17	169	1727	0.26	mg/L #	34
62) 4-Bromophenyl phenyl ether	11.17	248	2396	1.00	mg/L #	1
68) Di-n-butylphthalate	12.86	149	4415	0.31	mg/L #	94
74) Butylbenzylphthalate	15.50	149	1631	0.32	mg/L #	92
75) 3,3'-Dichlorobenzidine	16.55	252	4259	3.06	mg/L #	97
76) Benz(a)anthracene	16.68	228	2539	0.33	mg/L	94
77) Chrysene	16.68	228	2539	0.35	mg/L #	92
78) Bis(2-ethylhexyl)phthalate	16.72	149	4926	0.74	mg/L #	94
81) Di-n-octylphthalate	18.05	149	3946	0.34	mg/L #	78
82) Benzo(b)fluoranthene	18.88	252	7752	1.20	mg/L #	91
83) Benzo(k)fluoranthene	18.88	252	7752	1.24	mg/L #	89
85) Indeno(1,2,3-c,d)pyrene	22.73	276	4477	1.09	mg/L #	83
86) Dibenz(a,h)anthracene	22.77	278	3598	1.01	mg/L #	82
87) Benzo(g,h,i)perylene	23.62	276	3329	0.98	mg/L #	61

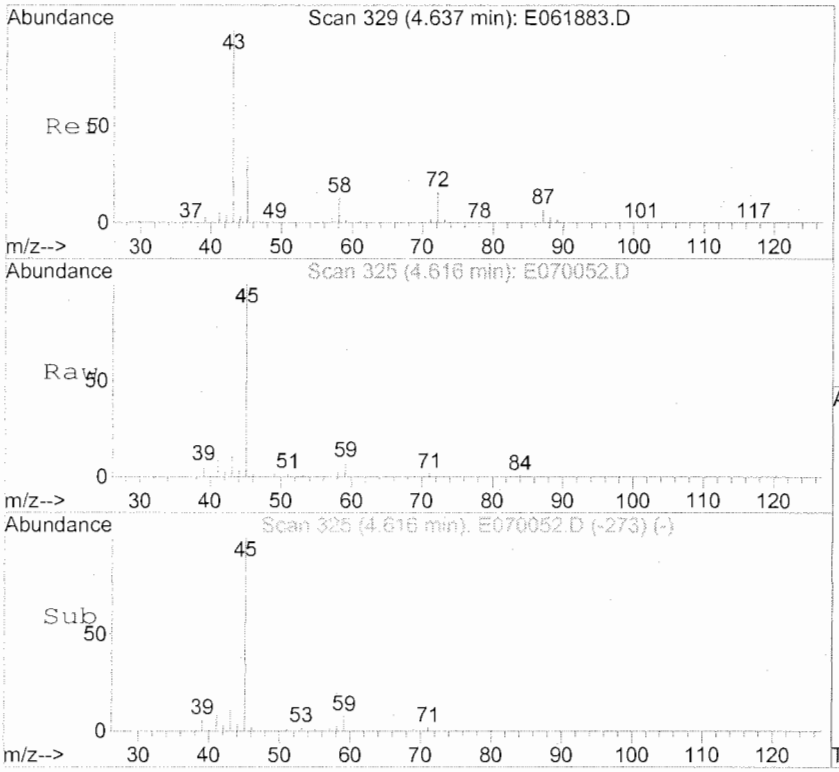
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070052.D Vial: 5
Acq On : 18 Jan 2007 2:45 pm Operator: GJ
Sample : MB 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:29 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

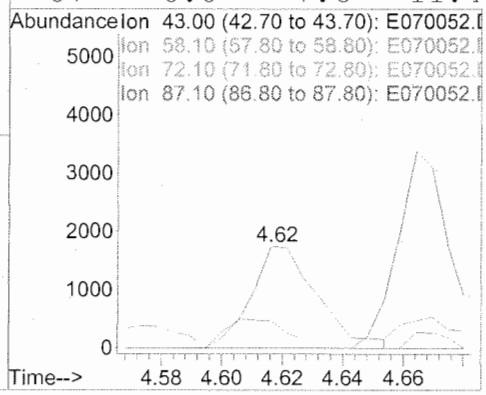


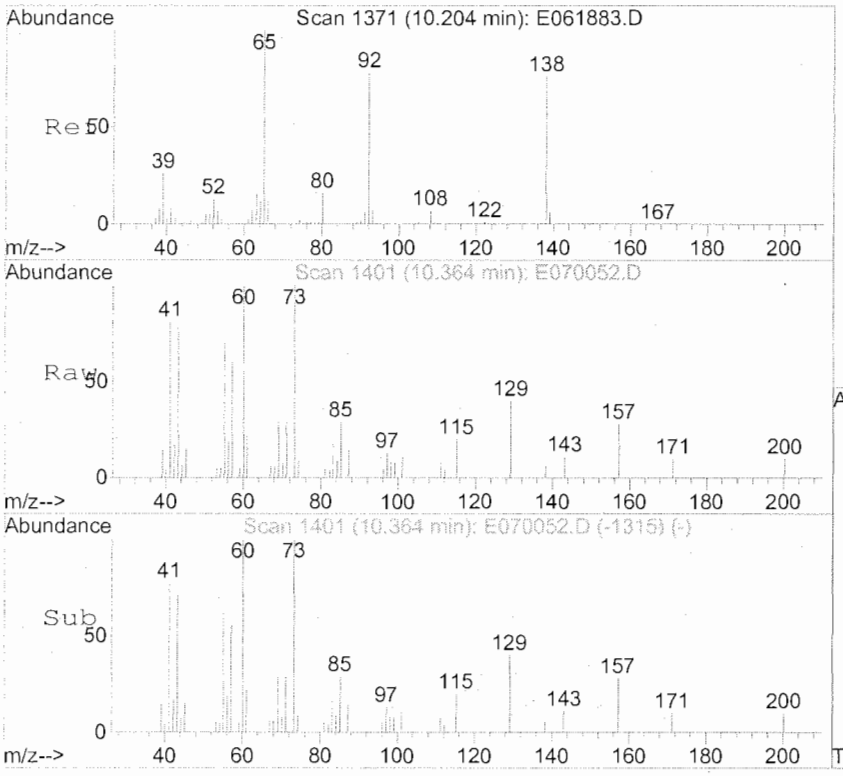


#5
PGMEA
Concen: 0.29 mg/L
RT: 4.62 min Scan# 325
Delta R.T. -0.02 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion: 43 Resp: 2656

Ion	Ratio	Lower	Upper
43	100		
58	24.5	9.7	14.5#
72	0.0	20.4	30.6#
87	0.0	7.6	11.4#

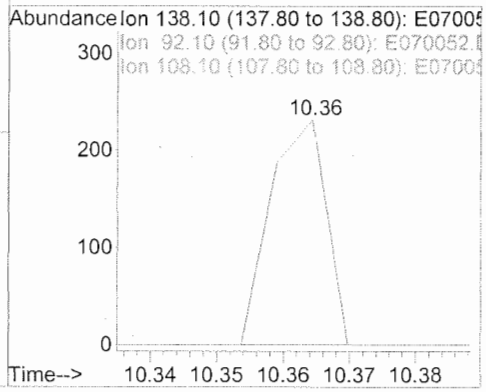


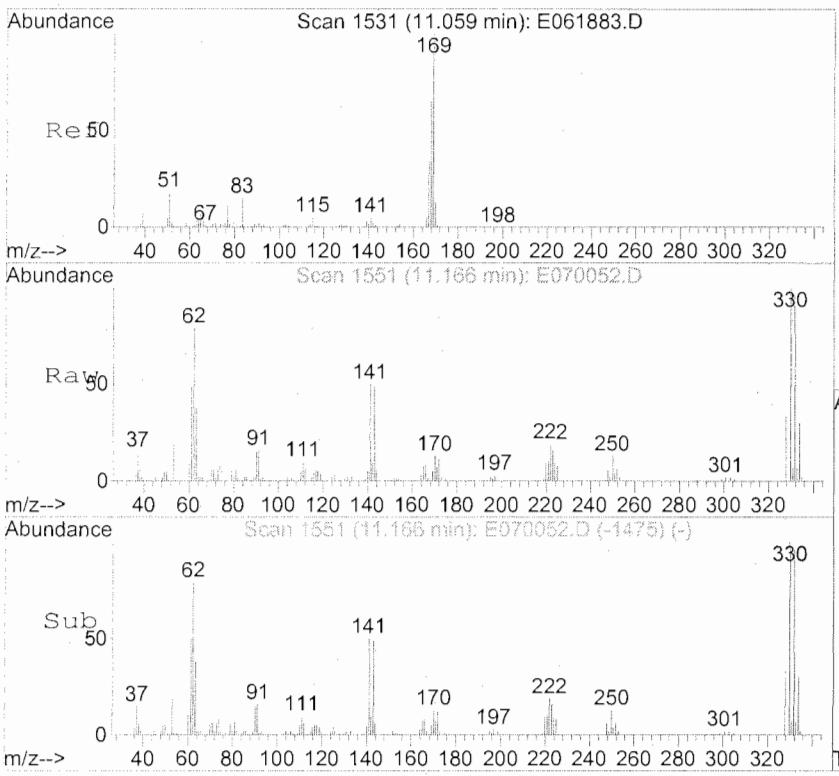


#47
3-Nitroaniline
Concen: 1.85 mg/L
RT: 10.36 min Scan# 1401
Delta R.T. 0.16 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:138 Resp: 134

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

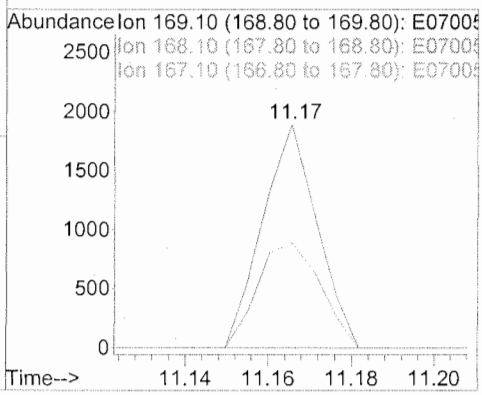


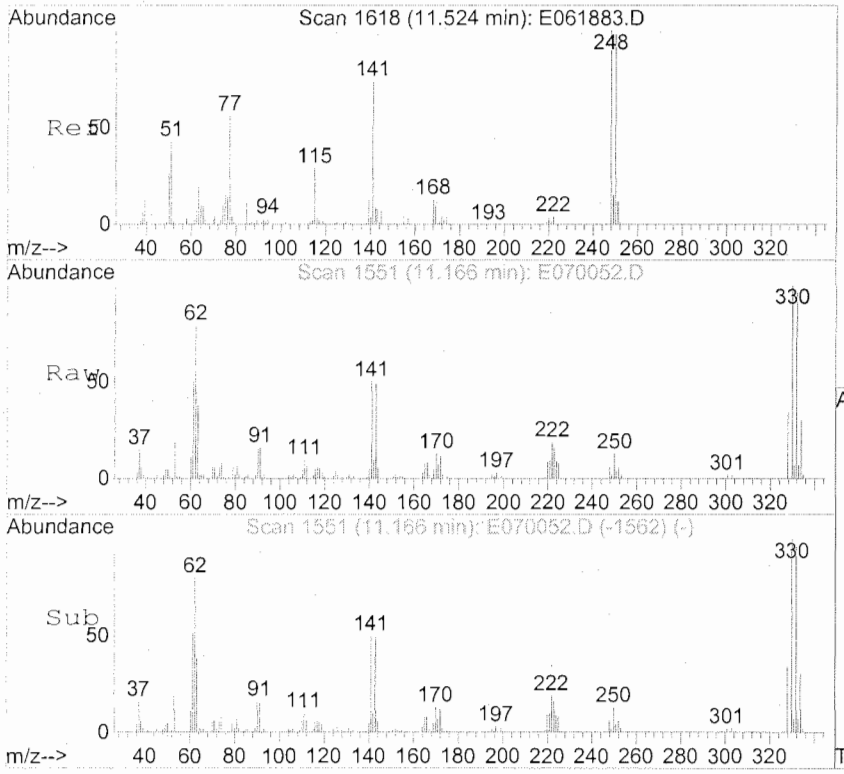


#59
N-Nitrosodiphenylamine
Concen: 0.26 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:169 Resp: 1727

Ion	Ratio	Lower	Upper
169	100		
168	0.0	50.8	76.2#
167	54.0	27.0	40.4#

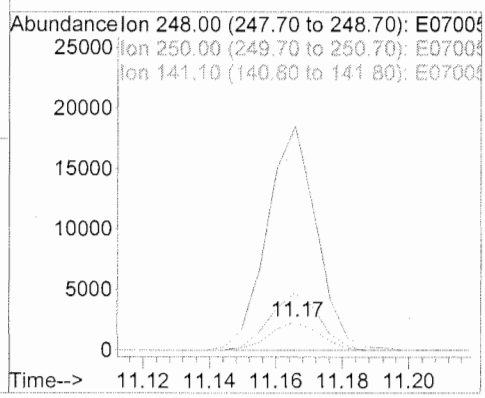


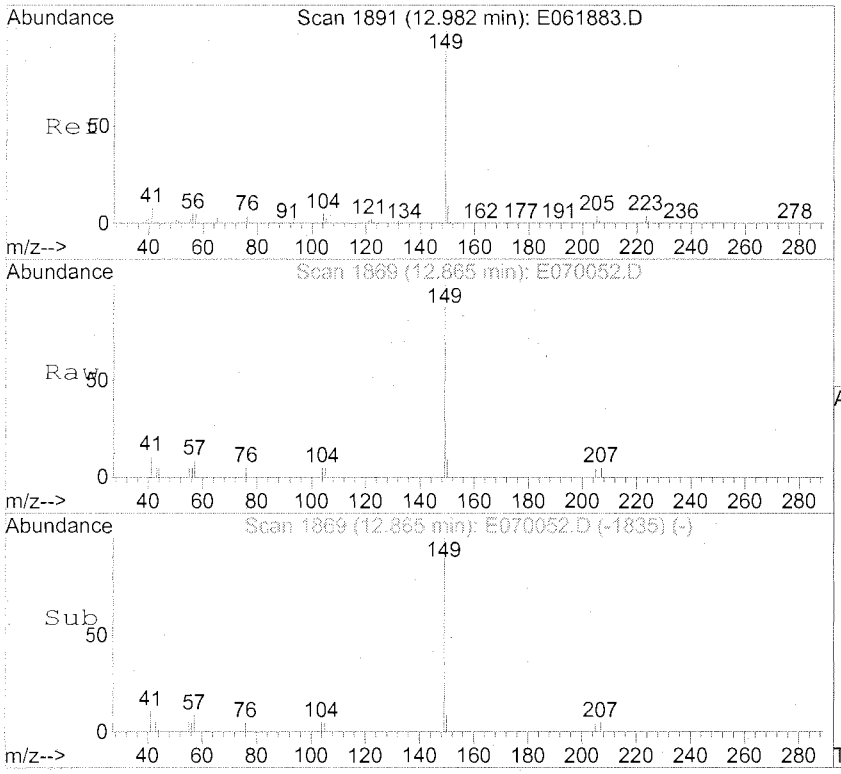


#62
4-Bromophenyl phenyl ether
Concen: 1.00 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:248 Resp: 2396

Ion	Ratio	Lower	Upper
248	100		
250	203.4	79.0	118.4#
141	799.3	64.3	96.5#

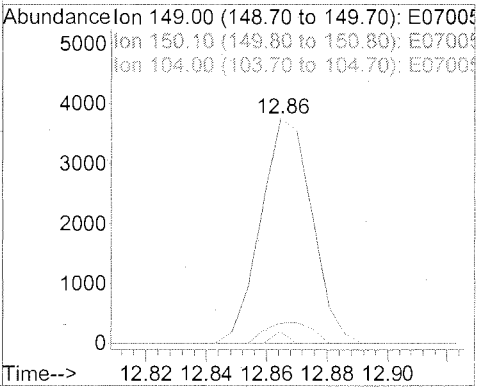


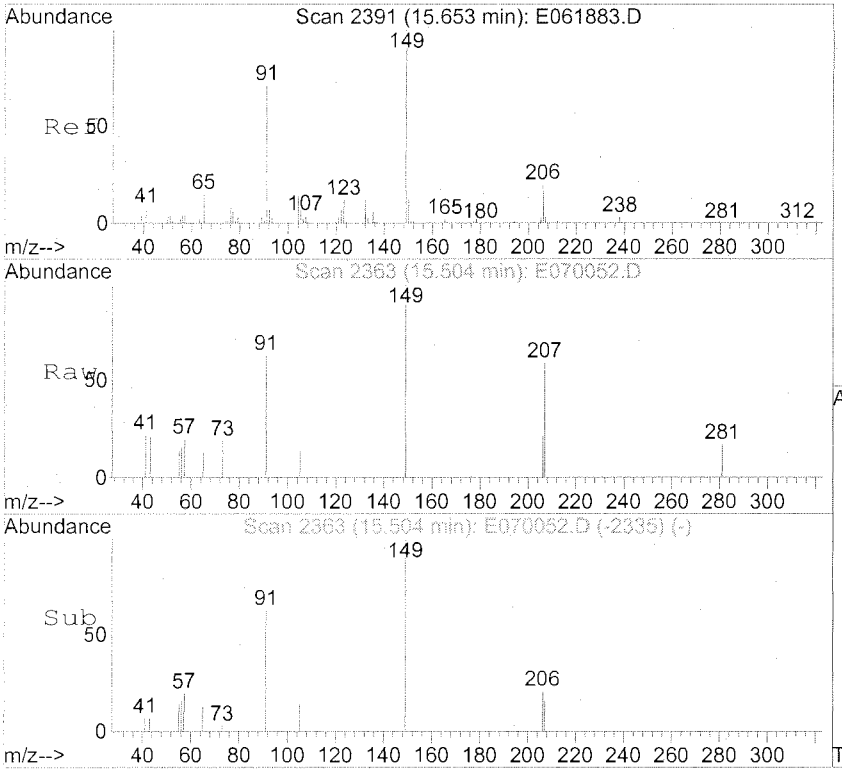


#68
Di-n-butylphthalate
Concen: 0.31 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:149 Resp: 4415

Ion	Ratio	Lower	Upper
149	100		
150	8.3	7.3	10.9
104	1.4	4.6	7.0#

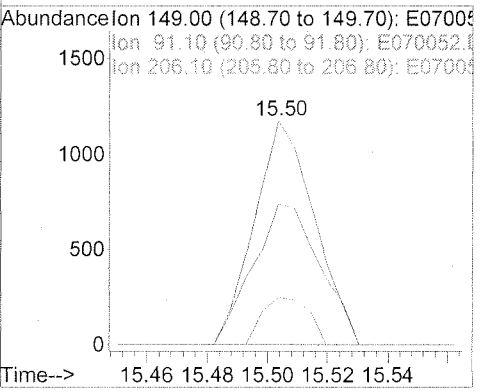


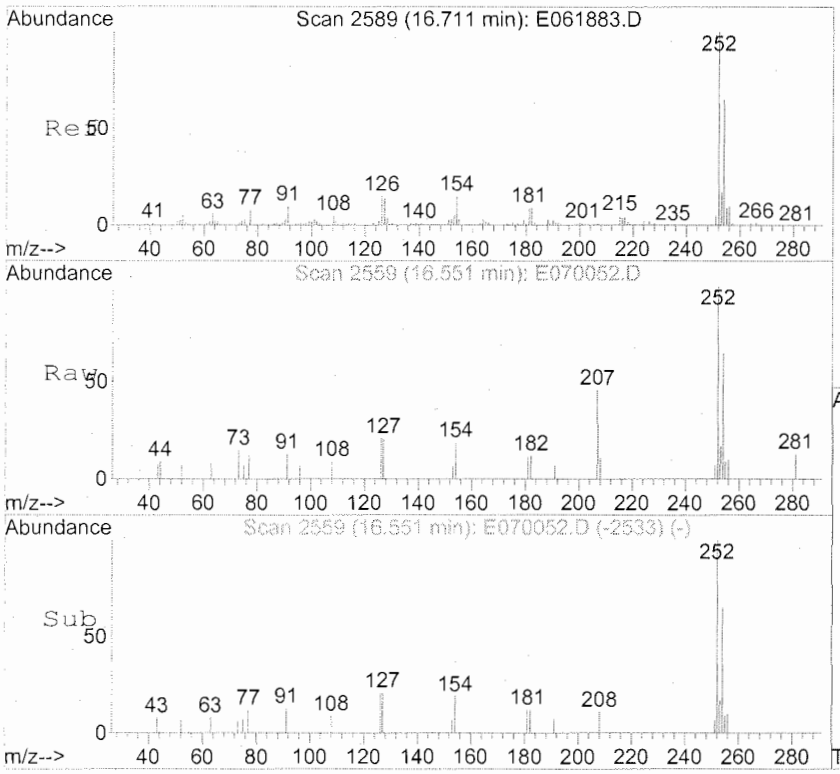


#74
Butylbenzylphthalate
Concen: 0.32 mg/L
RT: 15.50 min Scan# 2363
Delta R.T. -0.15 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:149 Resp: 1631

Ion	Ratio	Lower	Upper
149	100		
91	69.8	59.4	89.0
206	16.4	19.0	28.6#

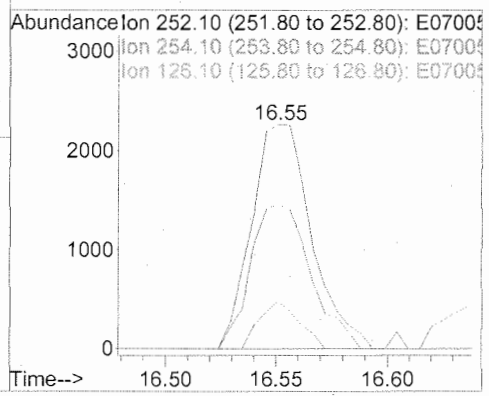


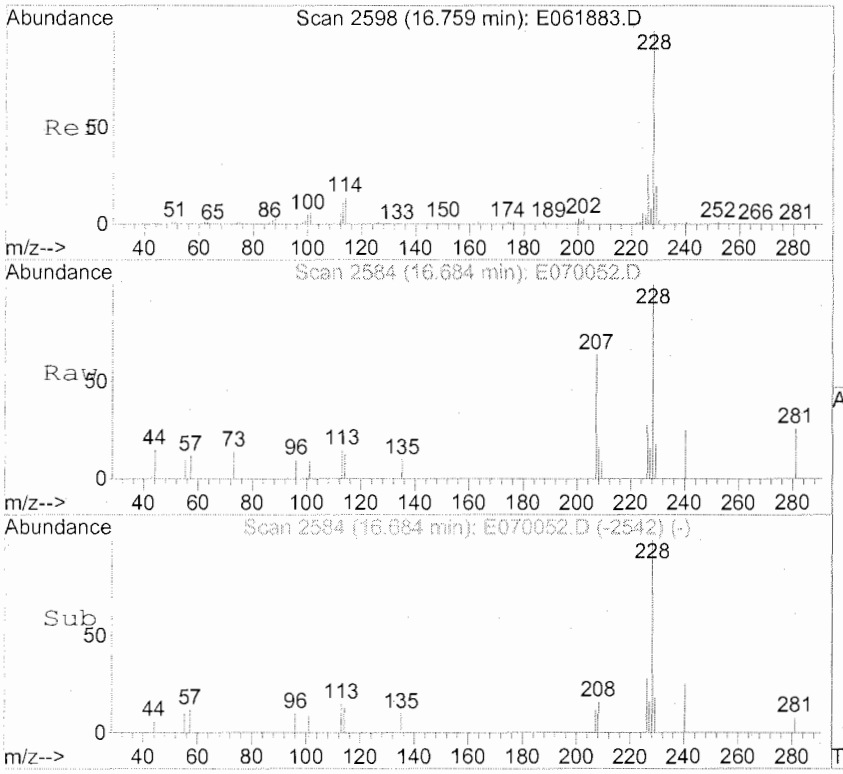


#75
3,3'-Dichlorobenzidine
Concen: 3.06 mg/L
RT: 16.55 min Scan# 2559
Delta R.T. -0.16 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:252 Resp: 4259

Ion	Ratio	Lower	Upper
252	100		
254	64.5	52.6	79.0
126	14.0	8.2	12.2#

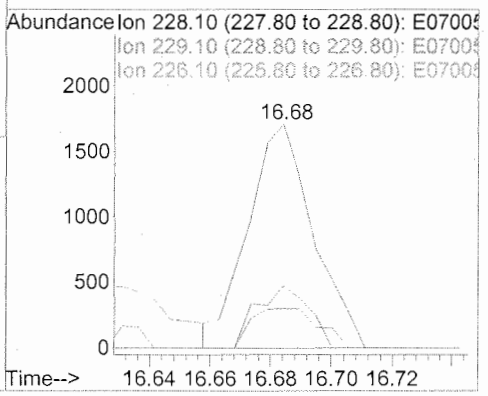


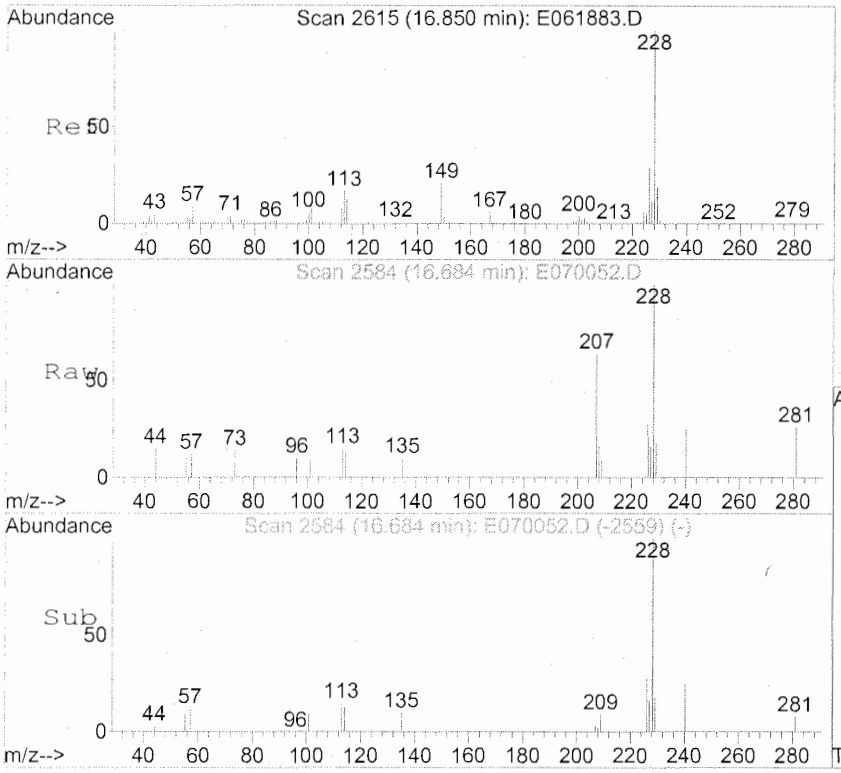


#76
Benz(a)anthracene
Concen: 0.33 mg/L
RT: 16.68 min Scan# 2584
Delta R.T. -0.07 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:228 Resp: 2539

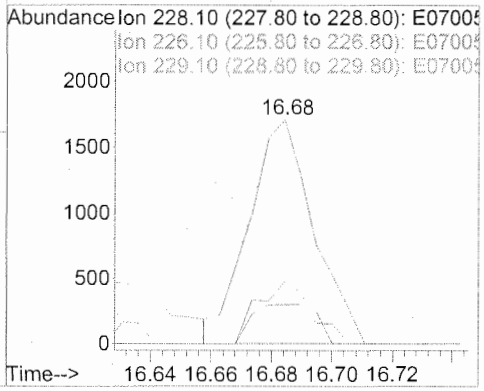
Ion	Ratio	Lower	Upper
228	100		
229	18.1	15.8	23.8
226	22.2	20.7	31.1

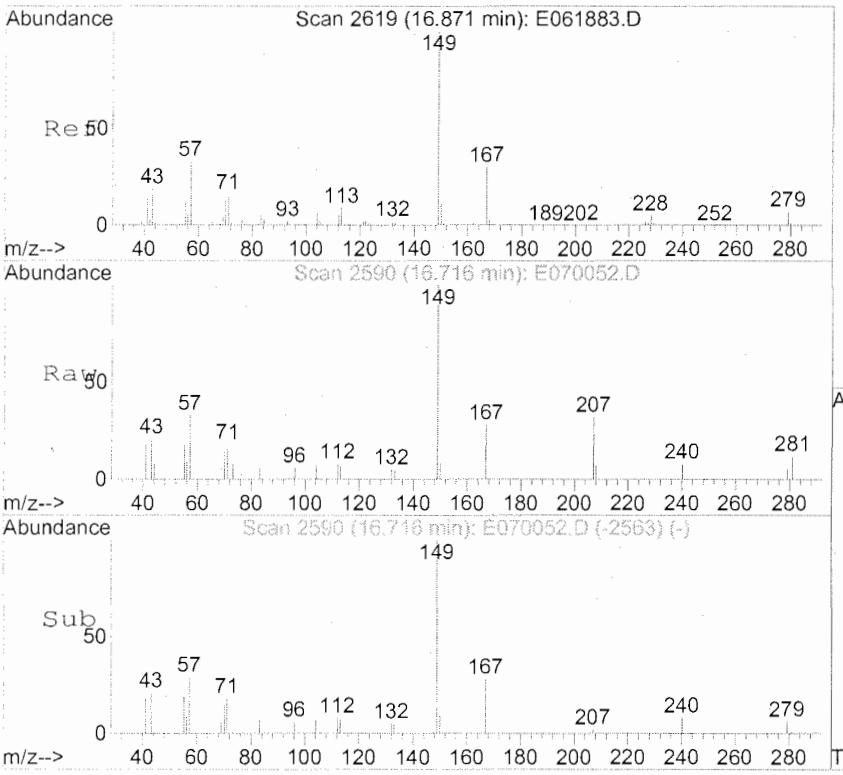




#77
Chrysene
Concen: 0.35 mg/L
RT: 16.68 min Scan# 2584
Delta R.T. -0.17 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

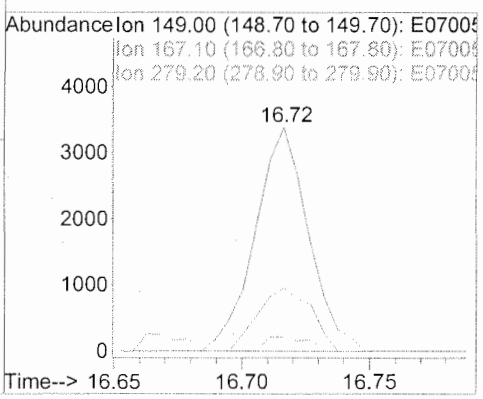
Tgt Ion:228	Resp:	2539	
Ion	Ratio	Lower	Upper
228	100		
226	22.2	22.8	34.2#
229	18.1	15.7	23.5

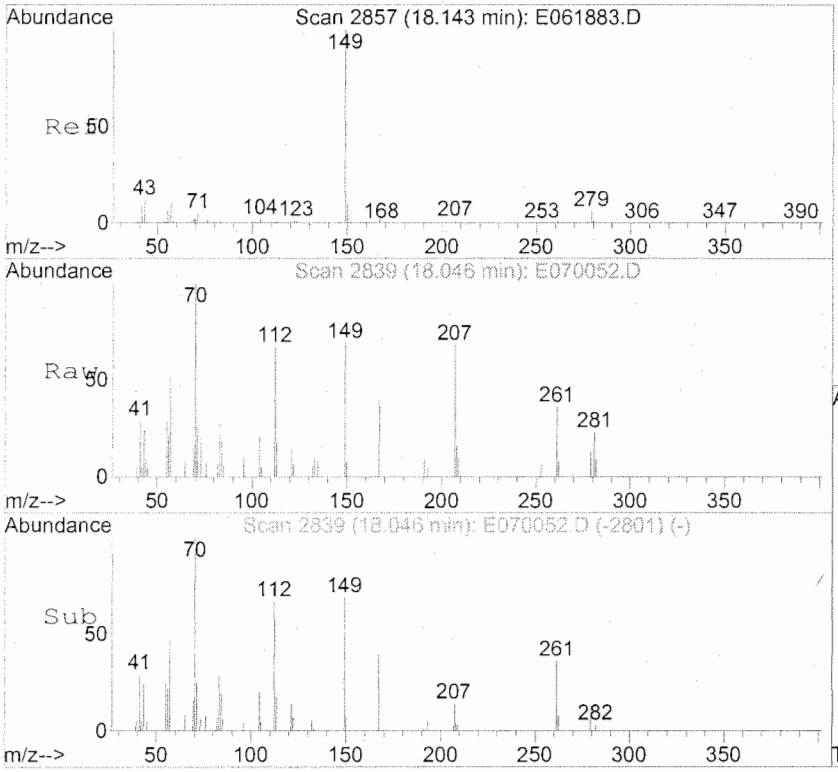




#78
Bis(2-ethylhexyl)phthalate
Concen: 0.74 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:149	Resp:	4926	
Ion	Ratio	Lower	Upper
149	100		
167	28.2	25.0	37.6
279	4.9	6.2	9.2#

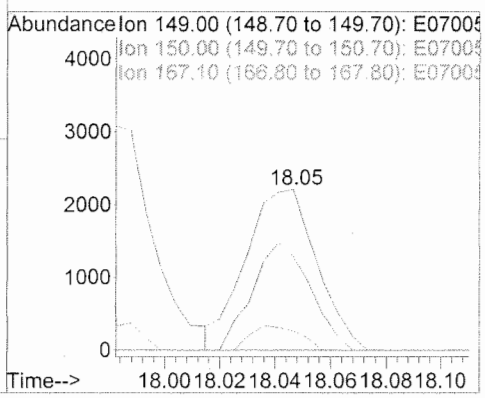


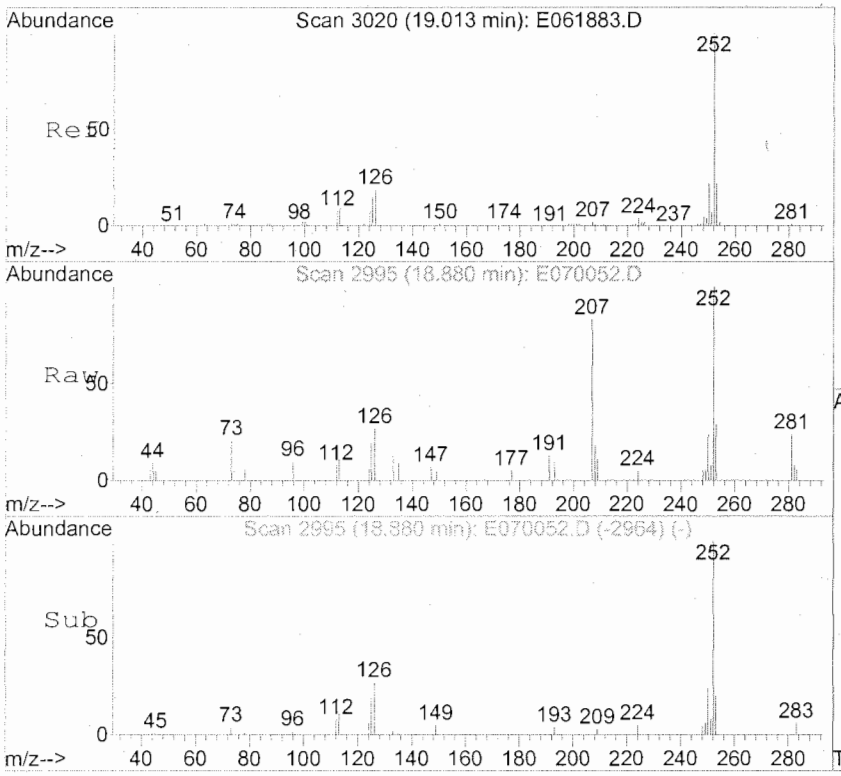


#81
Di-n-octylphthalate
Concen: 0.34 mg/L
RT: 18.05 min Scan# 2839
Delta R.T. -0.10 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:149 Resp: 3946

Ion	Ratio	Lower	Upper
149	100		
150	10.3	7.8	11.8
167	54.2	1.4	2.0#

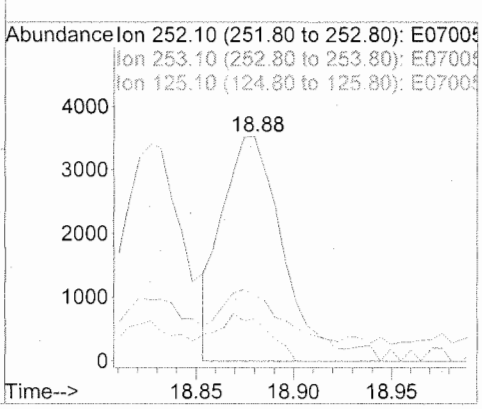


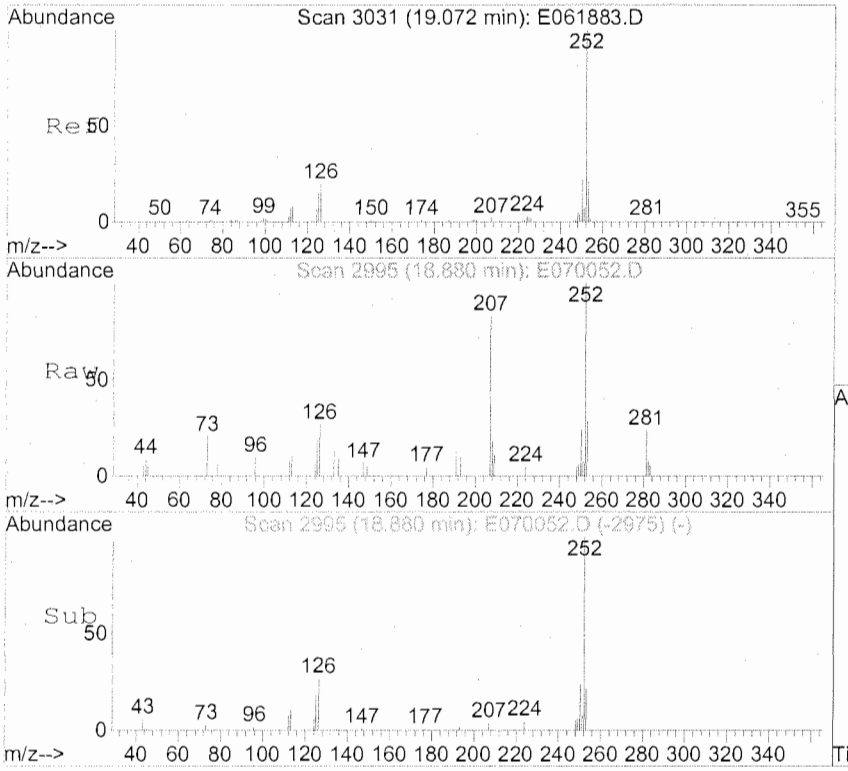


#82
Benzo(b)fluoranthene
Concen: 1.20 mg/L
RT: 18.88 min Scan# 2995
Delta R.T. -0.13 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:252 Resp: 7752

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.7	26.5
125	18.5	6.3	9.5#

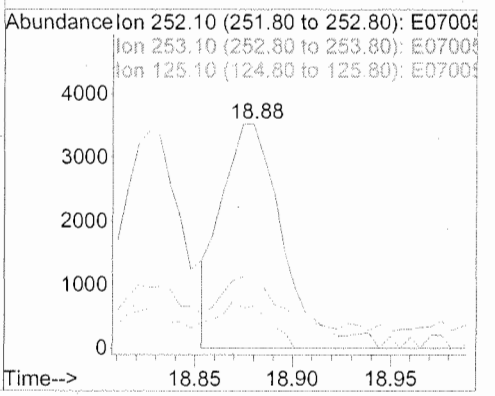


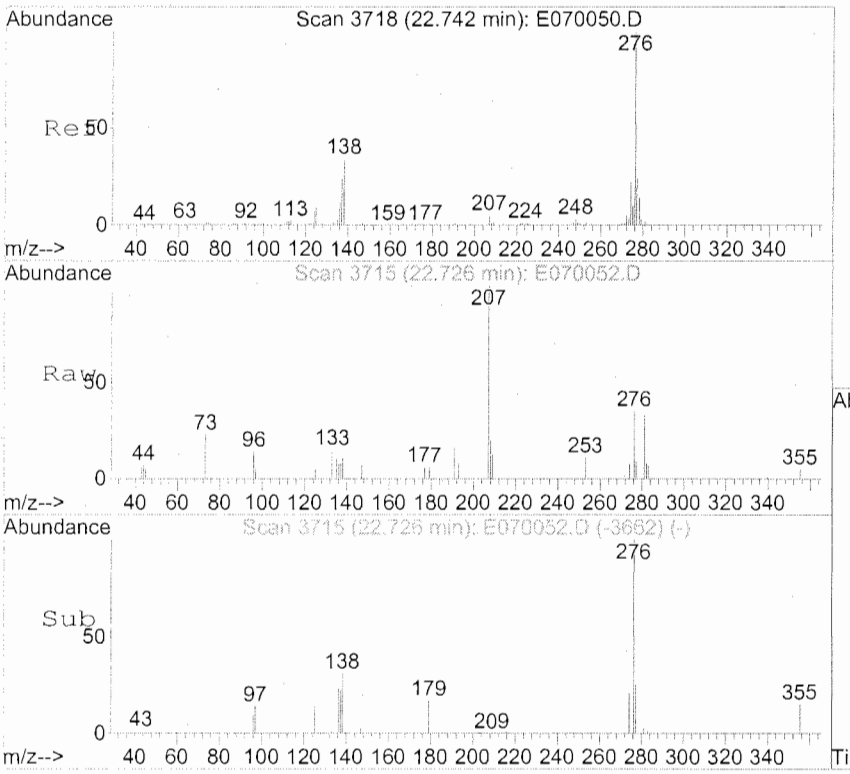


#83
Benzo(k)fluoranthene
Concen: 1.24 mg/L
RT: 18.88 min Scan# 2995
Delta R.T. -0.19 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:252 Resp: 7752

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.2	25.8
125	18.5	6.2	9.4#

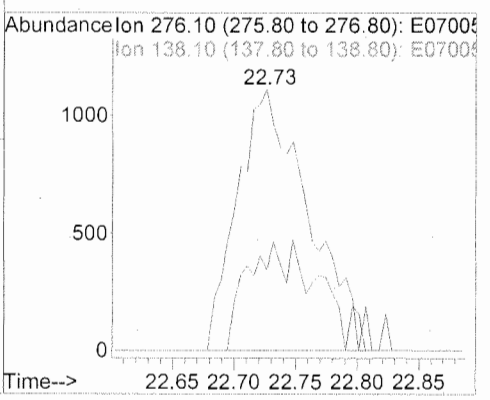


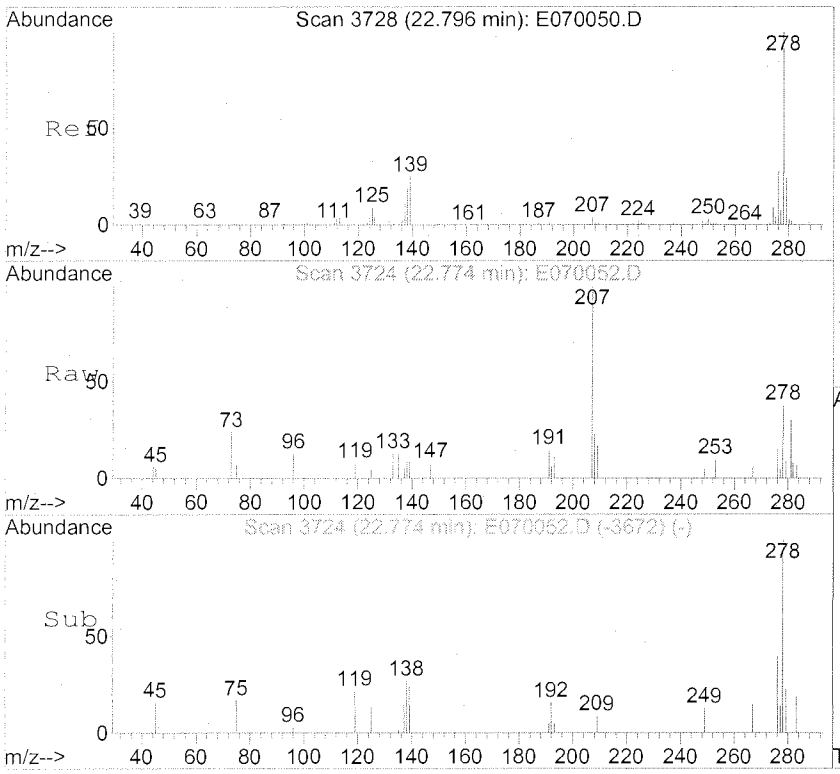


#85
Indeno(1,2,3-c,d)pyrene
Concen: 1.09 mg/L
RT: 22.73 min Scan# 3715
Delta R.T. -0.02 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:276 Resp: 4477

Ion	Ratio	Lower	Upper
276	100		
138	22.0	25.4	38.0#

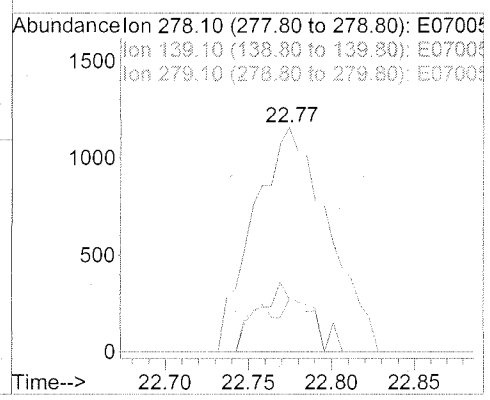


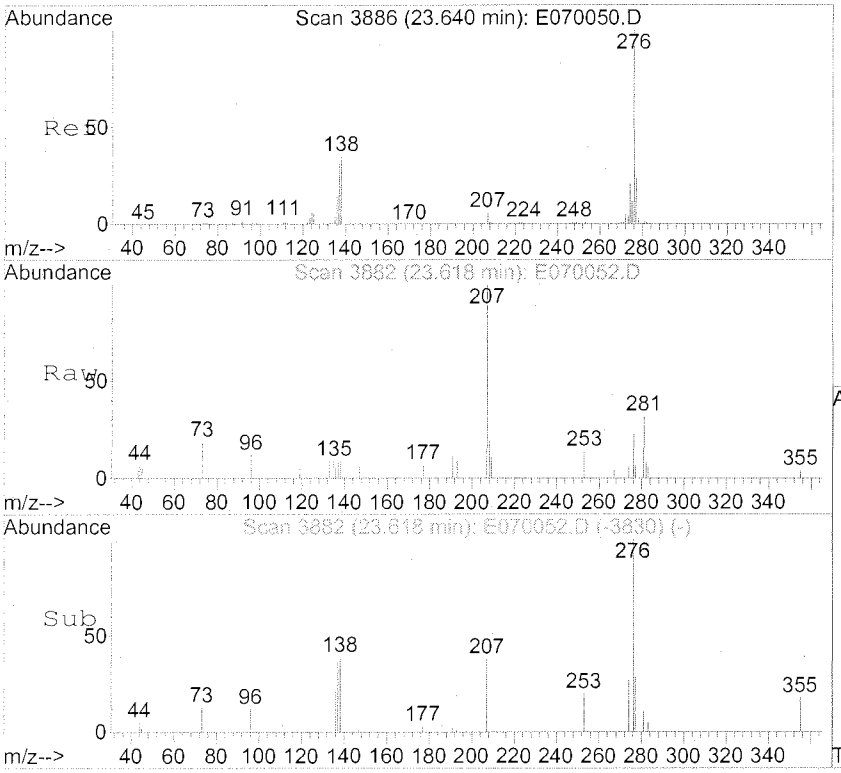


#86
Dibenz(a,h)anthracene
Concen: 1.01 mg/L
RT: 22.77 min Scan# 3724
Delta R.T. -0.02 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:278 Resp: 3598

Ion	Ratio	Lower	Upper
278	100		
139	21.1	18.0	27.0
279	8.1	19.4	29.0#

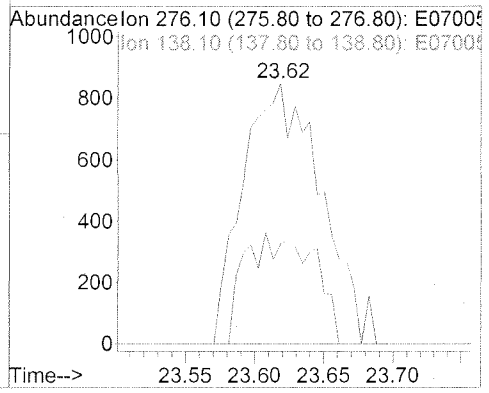




#87
Benzo(g,h,i)perylene
Concen: 0.98 mg/L
RT: 23.62 min Scan# 3882
Delta R.T. -0.02 min
Lab File: E070052.D
Acq: 18 Jan 2007 2:45 pm

Tgt Ion:276 Resp: 3329

Ion	Ratio	Lower	Upper
276	100		
138	10.5	26.2	39.2#



Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1400

Data File:	C:\MSDCHEM\1\DATA\E070118\E070053.D	**Instrument:**	MSE
Lab ID:	DWG0700129-1	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	01/18/2007 15:17
Matrix:	WATER	**Quant Date:**	01/19/2007 08:37

Duplicate Lab Control Spike Information

Data File:	C:\MSDCHEM\1\DATA\E070118\E070054.D	**Instrument:**	MSE
Lab ID:	DWG0700129-2	**Dilution:**	1
Client ID:	Duplicate Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	01/18/2007 15:50
Matrix:	WATER	**Quant Date:**	01/19/2007 08:38

	LCS			DLCS					
Parameter Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	40.9	50.0	82	41.4	50.0	83	30-101	1	20
1,2-Dichlorobenzene	39.7	50.0	79	40.4	50.0	81	20-105	2	20
1,3-Dichlorobenzene	38.5	50.0	77	39.4	50.0	79	15-104	2	20
1,4-Dichlorobenzene	38.9	50.0	78	39.4	50.0	79	19-102	1	20
1,4-Dioxane	38.6	50.0	77	41.0	50.0	82	35-101	6	20
2,4,5-Trichlorophenol	45.2	50.0	90	45.3	50.0	91	48-114	0	20
2,4,6-Trichlorophenol	45.5	50.0	91	46.2	50.0	92	48-112	1	20
2,4-Dichlorophenol	47.6	50.0	95	47.8	50.0	96	49-114	1	20
2,4-Dimethylphenol	47.3	50.0	95	47.4	50.0	95	38-107	0	20
2,4-Dinitrophenol	67.4	100	67	63.7	100	64	16-134	6	20
2,4-Dinitrotoluene	47.4	50.0	95	48.2	50.0	96	23-132	2	20
2,6-Dinitrotoluene	47.2	50.0	94	46.9	50.0	94	47-116	1	20
2-Chloronaphthalene	43.1	50.0	86	43.4	50.0	87	41-113	1	20
2-Chlorophenol	44.0	50.0	88	45.0	50.0	90	45-108	2	20
2-Methyl-4,6-dinitrophenol	76.6	100	77	73.1	100	73	21-134	5	20
2-Methylnaphthalene	45.2	50.0	90	44.8	50.0	90	41-112	1	20
2-Methylphenol	45.1	50.0	90	46.3	50.0	93	44-110	3	20
2-Nitroaniline	44.1	50.0	88	43.6	50.0	87	19-137	1	20
2-Nitrophenol	44.3	50.0	89	44.6	50.0	89	47-117	1	20
3,3'-Dichlorobenzidine	97.5	100	97	97.9	100	98	10-122	0	20
3-Nitroaniline	52.9	50.0	106	53.2	50.0	106	25-146	1	20
4-Bromophenyl Phenyl Ether	41.0	50.0	82	40.4	50.0	81	46-117	1	20
4-Chloro-3-methylphenol	48.8	50.0	98	48.5	50.0	97	45-115	1	20
4-Chloroaniline	50.1	50.0	100	50.7	50.0	101	16-139	1	20
4-Chlorophenyl Phenyl Ether	47.5	50.0	95	47.7	50.0	95	45-115	0	20
4-Methylphenol	46.2	50.0	92	46.7	50.0	93	60-108	1	20
4-Nitroaniline	51.9	50.0	104	51.7	50.0	103	16-147	0	20
4-Nitrophenol	89.4	100	89	87.5	100	88	10-134	2	20
Acenaphthene	45.5	50.0	91	45.7	50.0	91	39-119	0	20
Acenaphthylene	45.3	50.0	91	45.4	50.0	91	51-112	0	20
Aniline	44.9	50.0	90	46.2	50.0	92	10-144	3	20
Anthracene	46.9	50.0	94	46.5	50.0	93	40-123	1	20
Benz(a)anthracene	46.3	50.0	93	46.1	50.0	92	36-126	0	20
Benzo(a)pyrene	45.7	50.0	91	45.5	50.0	91	41-125	0	20
Benzo(b)fluoranthene	45.4	50.0	91	44.4	50.0	89	48-126	2	20
Benzo(g,h,i)perylene	47.7	50.0	95	52.6	50.0	105	33-138	10	20
Benzo(k)fluoranthene	45.4	50.0	91	43.4	50.0	87	49-125	4	20
Benzoic acid	162	250	65	134	250	54	10-148	19	20

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1400

Data File:	C:\MSDCHEM\1\DATA\E070118\E070053.D	**Instrument:**	MSE
Lab ID:	DWG0700129-1	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	01/18/2007 15:17
Matrix:	WATER	**Quant Date:**	01/19/2007 08:37

Duplicate Lab Control Spike Information

Data File:	C:\MSDCHEM\1\DATA\E070118\E070054.D	**Instrument:**	MSE
Lab ID:	DWG0700129-2	**Dilution:**	1
Client ID:	Duplicate Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	01/18/2007 15:50
Matrix:	WATER	**Quant Date:**	01/19/2007 08:38

	LCS			DLCS					
Parameter Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Benzyl alcohol	45.9	50.0	92	45.8	50.0	92	48-119	0	20
bis(2-Chloroethoxy)methane	45.5	50.0	91	46.0	50.0	92	39-120	1	20
Bis(2-chloroethyl) Ether	43.9	50.0	88	44.7	50.0	89	41-108	2	20
Bis(2-Chloroisopropyl)ether	39.5	50.0	79	40.1	50.0	80	38-119	1	20
Bis(2-ethylhexyl) Phthalate	61.1	50.0	122	61.8	50.0	124	42-127	1	20
Butyl Benzyl Phthalate	53.9	50.0	108	54.0	50.0	108	40-126	0	20
Chrysene	45.9	50.0	92	45.7	50.0	91	47-117	0	20
Di-n-butyl Phthalate	51.5	50.0	103	51.3	50.0	103	40-126	0	20
Di-n-octyl Phthalate	61.1	50.0	122	58.3	50.0	117	48-127	5	20
Dibenz(a,h)anthracene	49.2	50.0	98	53.4	50.0	107	44-137	8	20
Dibenzofuran	46.5	50.0	93	46.5	50.0	93	45-115	0	20
Diethyl Phthalate	48.1	50.0	96	48.1	50.0	96	41-120	0	20
Dimethyl Phthalate	46.7	50.0	93	46.9	50.0	94	46-116	0	20
Fluoranthene	51.9	50.0	104	51.5	50.0	103	35-127	1	20
Fluorene	47.3	50.0	95	47.0	50.0	94	46-121	1	20
Hexachlorobenzene	39.6	50.0	79	39.2	50.0	78	44-117	1	20
Hexachlorobutadiene	35.6	50.0	71	36.4	50.0	73	17-101	2	20
Hexachlorocyclopentadiene	17.2	50.0	34	16.2	50.0	32	10-74	6	20
Hexachloroethane	37.1	50.0	74	38.1	50.0	76	10-105	3	20
Indeno(1,2,3-cd)pyrene	48.4	50.0	97	52.6	50.0	105	38-131	8	20
Isophorone	46.9	50.0	94	47.1	50.0	94	44-115	0	20
N-Nitrosodi-n-propylamine	46.8	50.0	94	47.0	50.0	94	43-112	0	20
N-Nitrosodimethylamine	41.7	50.0	83	42.1	50.0	84	35-119	1	20
N-Nitrosodiphenylamine	45.3	50.0	91	44.3	50.0	89	53-106	2	20
Naphthalene	43.6	50.0	87	43.5	50.0	87	36-111	0	20
Nitrobenzene	46.4	50.0	93	46.2	50.0	92	42-116	0	20
Pentachlorophenol	71.6	100	72	68.8	100	69	15-141	4	20
Phenanthrene	46.2	50.0	92	45.8	50.0	92	43-120	1	20
Phenol	44.3	50.0	89	44.7	50.0	89	20-119	1	20
Pyrene	47.6	50.0	95	47.2	50.0	94	29-140	1	20
Pyridine	36.8	50.0	74	32.9	50.0	66	23-98	11	20

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/19/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76123	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070053.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 15:17	**Quant Date:**	01/19/2007 08:37	**Vial:**	6
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0700129-1			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	139477	40.00	OK
2	Naphthalene-d8	7.94	0.01?	136	558278	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	324637	40.00	OK
4	Phenanthrene-d10	12.06	0.01?	188	518539	40.00	OK
5	Chrysene-d12	16.65	0.00?	240	303551	40.00	OK
6	Perylene-d12	19.71	0.00?	264	176677	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	175604	39.55	79	23-115	OK	
1	Phenol-d5	5.82	0.00	0.00	99	247672	43.03	86	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	221242	46.90	94	42-122	OK	
3	2-Fluorobiphenyl	9.31	0.00	0.00	172	479658	46.86	94	47-110	OK	
4	2,4,6-Tribromophenol	11.18	0.01	0.00	330	50702	40.77	82	31-112	OK	
5	Terphenyl-d14	14.56	0.00	0.00	244	406303	47.89	96	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.95		0.00	88	78734	38.55	38.6		
1	N-Nitrosodimethylamine	3.31	0.01	0.00	42	110666	41.67	41.7		
1	Pyridine	3.33	0.01	0.00	79	195155	36.81	36.8		
1	PGMEA	4.57		0.00	43	368587	38.39	38.4		
1	Phenol	5.83		0.00	94	268661	44.30	44.3		
1	Aniline	5.90		0.00	93	315447	44.93	44.9		
1	Bis(2-chloroethyl) Ether	5.95		0.00	93	218808	43.86	43.9		
1	2-Chlorophenol	6.05		0.00	128	226189	44.01	44.0		
1	1,3-Dichlorobenzene	6.24	0.01	0.00	146	216408	38.47	38.5		
1	1,4-Dichlorobenzene	6.30		0.00	146	223411	38.89	38.9		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070053.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 15:17	**Quant Date:**	01/19/2007 08:37	**Vial:**	6
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0700129-1			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.46		0.00	108	150284	45.86	45.9		
1	1,2-Dichlorobenzene	6.55		0.00	146	212708	39.69	39.7		
1	1-Methyl-2-pyrrolidinone	6.58		0.00	99	150683	46.22	46.2		
1	2-Methylphenol	6.62		0.00	108	203592	45.14	45.1		
1	Bis(2-Chloroisopropyl)ether	6.66	0.01	0.00	45	376008	39.52	39.5		
1	4-Methylphenol	6.80		0.00	107	263908	46.21	46.2		
1	N-Nitrosodi-n-propylamine	6.84		0.00	70	157912	46.84	46.8		
1	Hexachloroethane	6.95		0.00	117	78443	37.12	37.1		
2	Nitrobenzene	7.06	0.01	0.00	77	229855	46.37	46.4		
2	Isophorone	7.35	0.01	0.00	82	417007	46.91	46.9		
2	2-Nitrophenol	7.46		0.00	139	123674	44.30	44.3		
2	2,4-Dimethylphenol	7.48		0.00	122	213853	47.29	47.3		
2	Benzoic acid	7.70	-0.03	-0.01	122	481070	161.73	162		
2	bis(2-Chloroethoxy)methane	7.61	0.01	0.00	93	254162	45.51	45.5		
2	2,4-Dichlorophenol	7.76		0.00	162	182168	47.56	47.6		
2	1,2,4-Trichlorobenzene	7.87		0.00	180	168579	40.86	40.9		
2	Naphthalene	7.97	0.01	0.00	128	638238	43.64	43.6		
2	4-Chloroaniline	8.04		0.00	127	256173	50.11	50.1		
2	Hexachlorobutadiene	8.18	0.01	0.00	225	77256	35.61	35.6		
2	4-Chloro-3-methylphenol	8.63		0.00	107	190924	48.79	48.8		
2	2-Methylnaphthalene	8.84	0.01	0.00	142	446508	45.23	45.2		
3	Hexachlorocyclopentadiene	9.11		0.00	237	44501	17.23	17.2		
3	2,4,6-Trichlorophenol	9.22	0.01	0.00	196	121785	45.54	45.5		
3	2,4,5-Trichlorophenol	9.27		0.00	196	131069	45.24	45.2		
3	2-Chloronaphthalene	9.46	0.01	0.00	162	394307	43.09	43.1		
3	2-Nitroaniline	9.61		0.00	65	124080	44.12	44.1		
3	Dimethyl Phthalate	9.85		0.00	163	469054	46.73	46.7		
3	Acenaphthylene	9.99		0.00	152	673181	45.25	45.3		
3	2,6-Dinitrotoluene	9.94		0.00	165	110765	47.20	47.2		
3	3-Nitroaniline	10.13	0.01	0.00	138	110041	52.91	52.9		
3	Acenaphthene	10.22		0.00	154	446371	45.51	45.5		
3	2,4-Dinitrophenol	10.25		0.00	184	94384	67.38	67.4		
3	4-Nitrophenol	10.31		0.00	109	102830	89.43	89.4		
3	Dibenzofuran	10.42	0.01	0.00	168	595514	46.46	46.5		
3	2,4-Dinitrotoluene	10.44	0.01	0.00	165	142217	47.44	47.4		
3	Fluorene	10.85		0.00	166	493361	47.29	47.3		
3	Diethyl Phthalate	10.72		0.00	149	486172	48.09	48.1		
3	4-Chlorophenyl Phenyl Ether	10.82		0.00	204	214015	47.51	47.5		
3	4-Nitroaniline	10.90		0.00	138	98766	51.94	51.9		
4	2-Methyl-4,6-dinitrophenol	10.95		0.00	198	132523	76.62	76.6		
4	N-Nitrosodiphenylamine	10.98	0.01	0.00	169	335049	45.25	45.3		
4	Azobenzene	11.02		0.00	77	466037	43.97	44.0		
4	4-Bromophenyl Phenyl Ether	11.43		0.00	248	111538	40.95	41.0		

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?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070053.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 15:17	**Quant Date:**	01/19/2007 08:37	**Vial:**	6
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0700129-1			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.65		0.00	284	113555	39.60	39.6		
4	Pentachlorophenol	11.87		0.00	266	136128	71.63	71.6		
4	Phenanthrene	12.09	0.01	0.00	178	670585	46.20	46.2		
4	Anthracene	12.15		0.00	178	665584	46.87	46.9		
4	Carbazole	12.36		0.00	167	509348	62.14	62.1		
4	Di-n-butyl Phthalate	12.88		0.00	149	817506	51.45	51.5		
4	Fluoranthene	13.92		0.00	202	642282	51.93	51.9		
5	Benzidine	14.10		0.00	184	218560	56.92	56.9		
5	Pyrene	14.31		0.00	202	624576	47.61	47.6		
5	Butyl Benzyl Phthalate	15.52	0.01	0.00	149	318028	53.87	53.9		
5	3,3'-Dichlorobenzidine	16.57		0.00	252	217453	97.48	97.5		
5	Benz(a)anthracene	16.61		0.00	228	408456	46.32	46.3		
5	Chrysene	16.70		0.00	228	379791	45.89	45.9		
5	Bis(2-ethylhexyl) Phthalate	16.73	0.01	0.00	149	467750	61.05	61.1		
5	Mirex	17.50		0.00	272	41340	25.07	25.1		
6	Di-n-octyl Phthalate	17.99		0.00	149	696379	61.13	61.1		
6	Benzo(b)fluoranthene	18.84		0.00	252	290732**m**	45.38	45.4		
6	Benzo(k)fluoranthene	18.90		0.00	252	281932	45.39	45.4		
6	Benzo(a)pyrene	19.57		0.00	252	230646	45.69	45.7		
6	Indeno(1,2,3-cd)pyrene	22.75		0.00	276	197450	48.39	48.4		
6	Dibenz(a,h)anthracene	22.80		0.00	278	172748	49.17	49.2		
6	Benzo(g,h,i)perylene	23.65		0.00	276	160628	47.73	47.7		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070053.D Vial: 6
Acq On : 18 Jan 2007 3:17 pm Operator: GJ
Sample : LCS 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:36:19 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	139477	40.00	mg/L	-0.07
22) Naphthalene-d8	7.94	136	558278	40.00	mg/L	-0.08
37) Acenaphthene-d10	10.18	164	324637	40.00	mg/L	-0.08
57) Phenanthrene-d10	12.06	188	518539	40.00	mg/L	-0.10
70) Chrysene-d12	16.65	240	303551	40.00	mg/L	-0.14
80) Perylene-d12	19.71	264	176677	40.00	mg/L	-0.20
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	175604	39.55	mg/L	-0.06
Spiked Amount 50.000			Recovery =	79.10%		
7) Phenol-d5	5.82	99	247672	43.03	mg/L	-0.05
Spiked Amount 50.000			Recovery =	86.06%		
23) Nitrobenzene-d5	7.03	82	221242	46.90	mg/L	-0.07
Spiked Amount 50.000			Recovery =	93.80%		
41) 2-Fluorobiphenyl	9.31	172	479658	46.86	mg/L	-0.08
Spiked Amount 50.000			Recovery =	93.72%		
61) 2,4,6-Tribromophenol	11.18	330	50702	40.77	mg/L	-0.09
Spiked Amount 50.000			Recovery =	81.54%		
73) Terphenyl-d14	14.56	244	406303	47.89	mg/L	-0.13
Spiked Amount 50.000			Recovery =	95.78%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.95	88	78734	38.55	mg/L #	81
3) N-Nitrosodimethylamine	3.31	42	110666	41.67	mg/L	92
4) Pyridine	3.33	79	195155	36.81	mg/L #	67
5) PGMEA	4.57	43	368587	38.39	mg/L #	89
8) Phenol	5.83	94	268661	44.30	mg/L	90
9) Aniline	5.90	93	315447	44.93	mg/L	97
10) Bis(2-chloroethyl)ether	5.95	93	218808	43.86	mg/L	98
11) 2-Chlorophenol	6.05	128	226189	44.01	mg/L	97
12) 1,3-Dichlorobenzene	6.24	146	216408	38.47	mg/L	99
13) 1,4-Dichlorobenzene	6.30	146	223411	38.89	mg/L	100
14) Benzyl alcohol	6.46	108	150284	45.86	mg/L #	78
15) 1,2-Dichlorobenzene	6.55	146	212708	39.69	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.58	99	150683	46.22	mg/L	99
17) 2-Methylphenol	6.62	108	203592	45.14	mg/L	100
18) Bis(2-chloroisopropyl)ethe	6.66	45	376008	39.52	mg/L #	82
19) 4-Methylphenol	6.80	107	263908	46.21	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.84	70	157912	46.84	mg/L #	83
21) Hexachloroethane	6.95	117	78443	37.12	mg/L #	80
24) Nitrobenzene	7.06	77	229855	46.37	mg/L #	84
25) Isophorone	7.35	82	417007	46.91	mg/L	94
26) 2-Nitrophenol	7.46	139	123674	44.30	mg/L #	89
27) 2,4-Dimethylphenol	7.48	122	213853	47.29	mg/L	83
28) Benzoic acid	7.70	122	481070	161.73	mg/L #	83
29) Bis(2-chloroethoxy)methane	7.61	93	254162	45.51	mg/L #	94
30) 2,4-Dichlorophenol	7.76	162	182168	47.56	mg/L	98
31) 1,2,4-Trichlorobenzene	7.87	180	168579	40.86	mg/L	99
32) Naphthalene	7.97	128	638238	43.64	mg/L	99
33) 4-Chloroaniline	8.04	127	256173	50.11	mg/L	94
34) Hexachlorobutadiene	8.18	225	77256	35.61	mg/L	99
35) 4-Chloro-3-methylphenol	8.63	107	190924	48.79	mg/L	93
36) 2-Methylnaphthalene	8.84	142	446508	45.23	mg/L	98
38) Hexachlorocyclopentadiene	9.11	237	44501	17.23	mg/L	99

(#) = qualifier out of range (m) = manual integration
G 1/19/07

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070053.D Vial: 6
Acq On : 18 Jan 2007 3:17 pm Operator: GJ
Sample : LCS 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:36:19 2007 Quant Results File: BA061226.RES

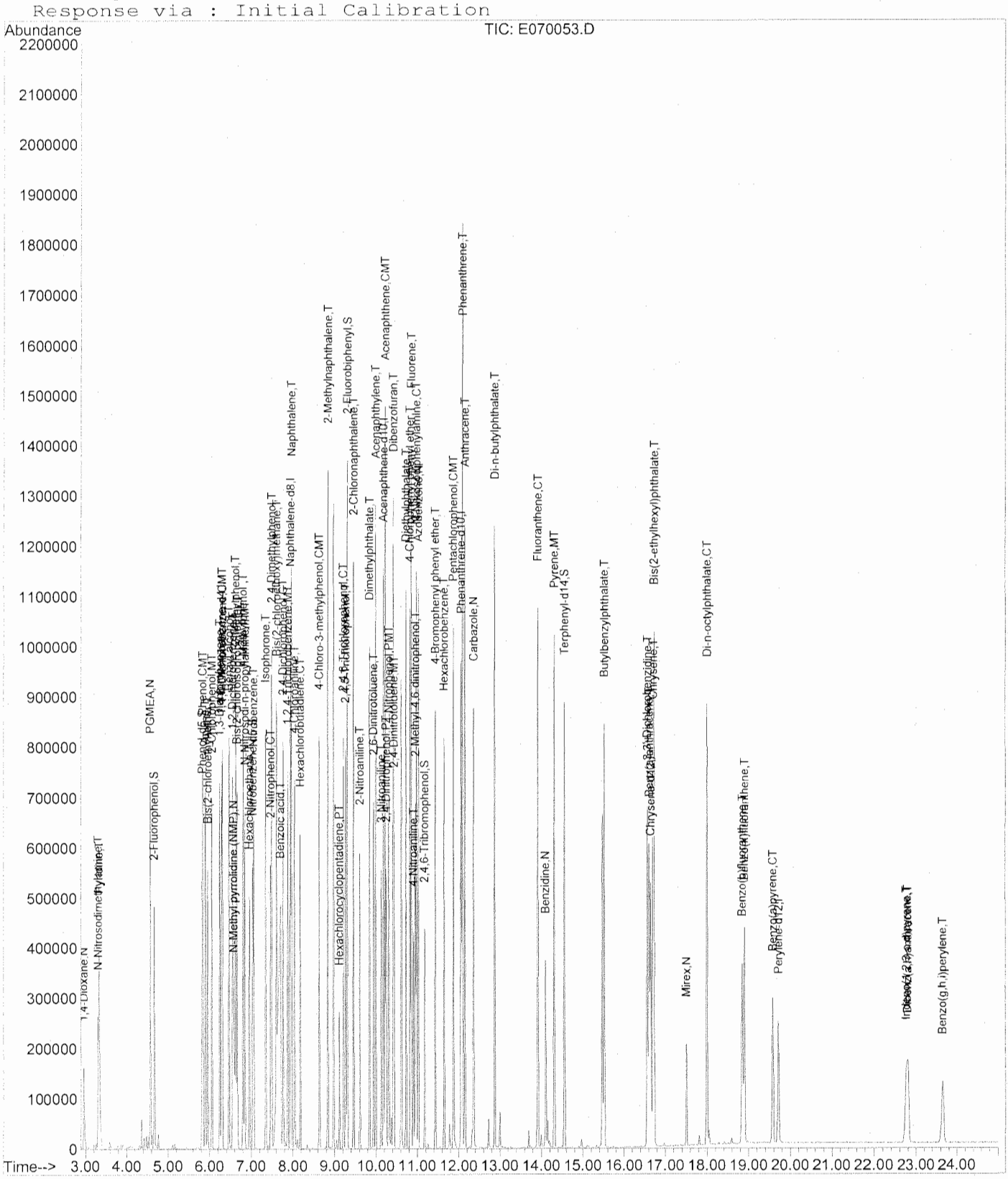
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.22	196	121785	45.54	mg/L		99
40)	2,4,5-Trichlorophenol	9.27	196	131069	45.24	mg/L	#	97
42)	2-Chloronaphthalene	9.46	162	394307	43.09	mg/L		98
43)	2-Nitroaniline	9.61	65	124080	44.12	mg/L		88
44)	Dimethylphthalate	9.85	163	469054	46.73	mg/L		96
45)	Acenaphthylene	9.99	152	673181	45.25	mg/L		100
46)	2,6-Dinitrotoluene	9.94	165	110765	47.20	mg/L		93
47)	3-Nitroaniline	10.13	138	110041	52.91	mg/L		87
48)	Acenaphthene	10.22	154	446371	45.51	mg/L		89
49)	2,4-Dinitrophenol	10.25	184	94384	67.38	mg/L	#	59
50)	4-Nitrophenol	10.31	109	102830	89.43	mg/L	#	55
51)	Dibenzofuran	10.42	168	595514	46.46	mg/L		95
52)	2,4-Dinitrotoluene	10.44	165	142217	47.44	mg/L	#	89
53)	Fluorene	10.85	166	493361	47.29	mg/L		98
54)	Diethylphthalate	10.72	149	486172	48.09	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.82	204	214015	47.51	mg/L		94
56)	4-Nitroaniline	10.90	138	98766	51.94	mg/L	#	85
58)	2-Methyl-4,6-dinitrophenol	10.95	198	132523	76.62	mg/L	#	88
59)	N-Nitrosodiphenylamine	10.98	169	335049	45.25	mg/L		94
60)	Azobenzene	11.02	77	466037	43.97	mg/L	#	97
62)	4-Bromophenyl phenyl ether	11.43	248	111538	40.95	mg/L		93
63)	Hexachlorobenzene	11.65	284	113555	39.60	mg/L		92
64)	Pentachlorophenol	11.87	266	136128	71.63	mg/L		98
65)	Phenanthrene	12.09	178	670585	46.20	mg/L		100
66)	Anthracene	12.15	178	665584	46.87	mg/L		99
67)	Carbazole	12.36	167	509348	62.14	mg/L		98
68)	Di-n-butylphthalate	12.88	149	817506	51.45	mg/L		99
69)	Fluoranthene	13.92	202	642282	51.93	mg/L	#	95
71)	Benzidine	14.10	184	218560	56.92	mg/L	#	97
72)	Pyrene	14.31	202	624576	47.61	mg/L		99
74)	Butylbenzylphthalate	15.52	149	318028	53.87	mg/L		94
75)	3,3'-Dichlorobenzidine	16.57	252	217453	97.48	mg/L	#	96
76)	Benz(a)anthracene	16.61	228	408456	46.32	mg/L		99
77)	Chrysene	16.70	228	379791	45.89	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.73	149	467750	61.05	mg/L		98
79)	Mirex	17.50	272	41340	25.07	mg/L		99
81)	Di-n-octylphthalate	17.99	149	696379	61.13	mg/L		100
82)	Benzo(b)fluoranthene	18.84	252	290732m	45.38	mg/L		
83)	Benzo(k)fluoranthene	18.90	252	281932	45.39	mg/L	#	94
84)	Benzo(a)pyrene	19.57	252	230646	45.69	mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	22.75	276	197450	48.39	mg/L	#	83
86)	Dibenz(a,h)anthracene	22.80	278	172748	49.17	mg/L		99
87)	Benzo(g,h,i)perylene	23.65	276	160628	47.73	mg/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E070118\E070053.D Vial: 6
Acq On : 18 Jan 2007 3:17 pm Operator: GJ
Sample : LCS 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:37 2007 Quant Results File: BA061226.RES

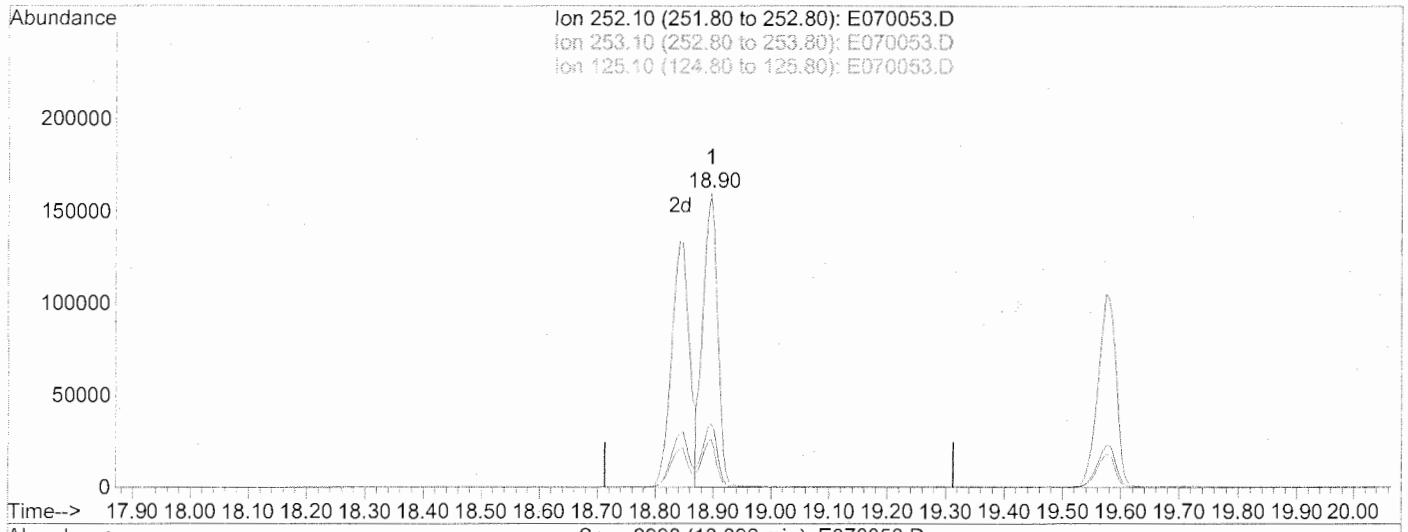
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

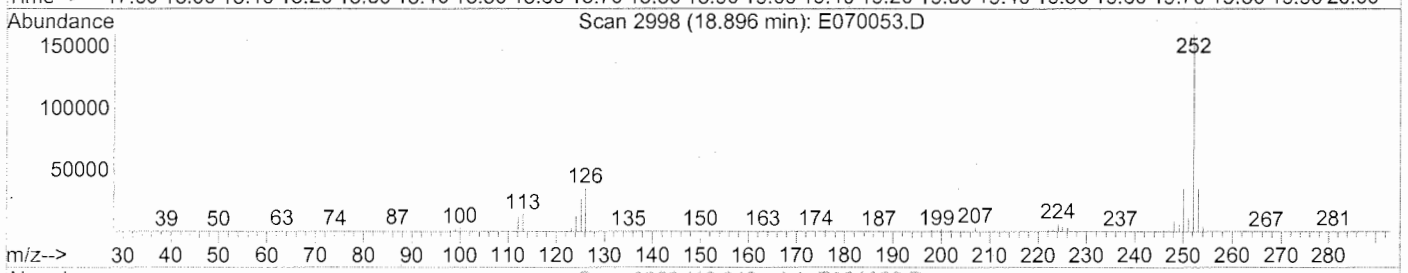


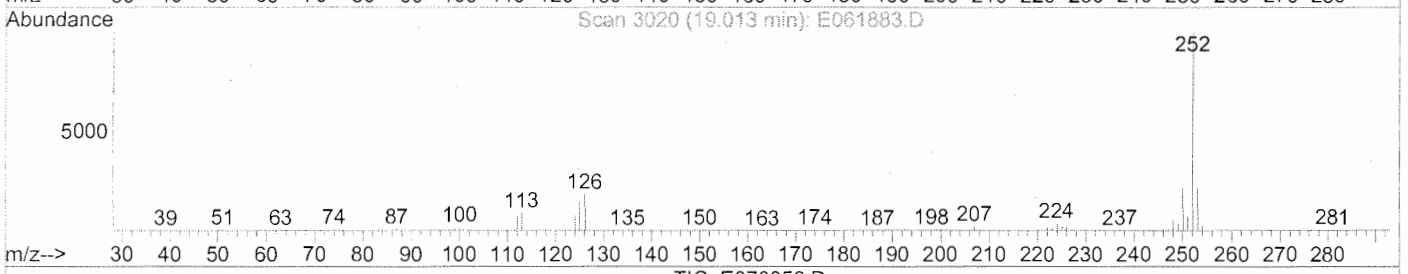
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070118\E070053.D Vial: 6
Acq On : 18 Jan 2007 3:17 pm Operator: GJ
Sample : LCS 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:36 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration







TIC: E070053.D

(82) Benzo(b)fluoranthene (T)

18.90min 44.06mg/L

response 282316

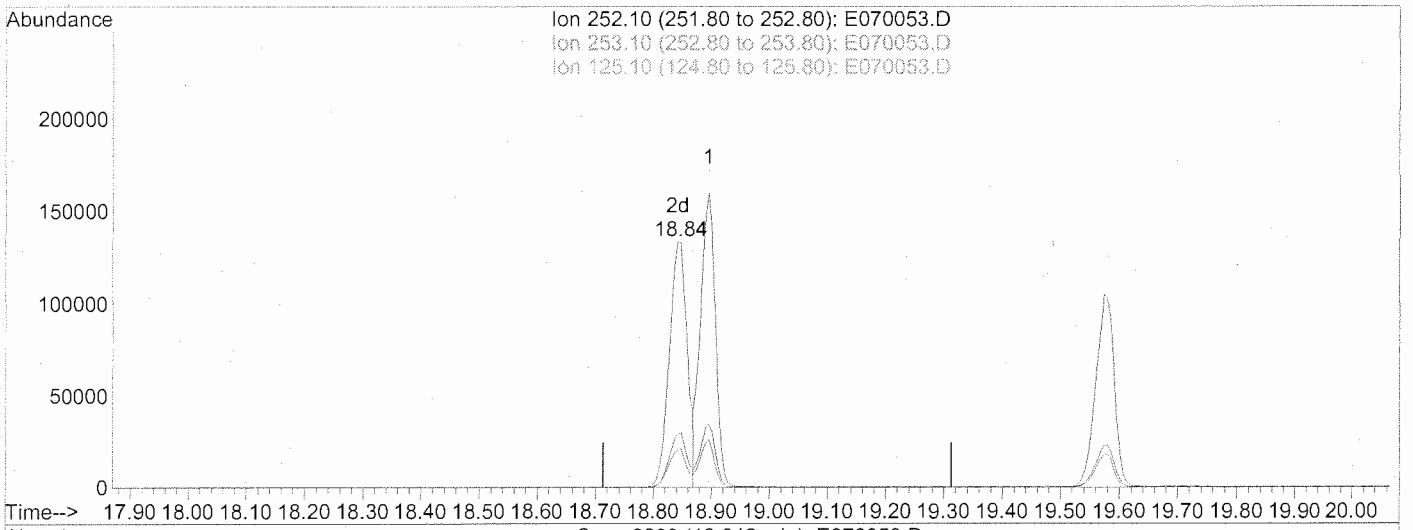
Ion	Exp%	Act%
252.10	100	100
253.10	22.10	21.57
125.10	7.90	15.68#
0.00	0.00	0.00

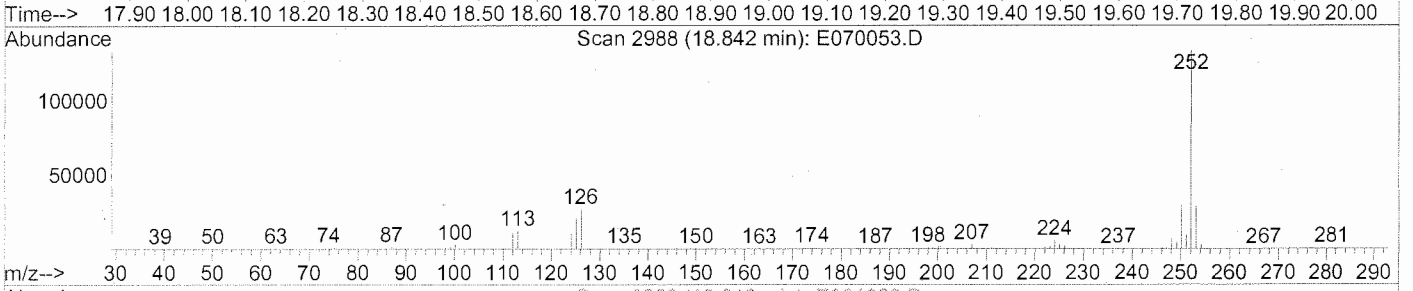
Bef.

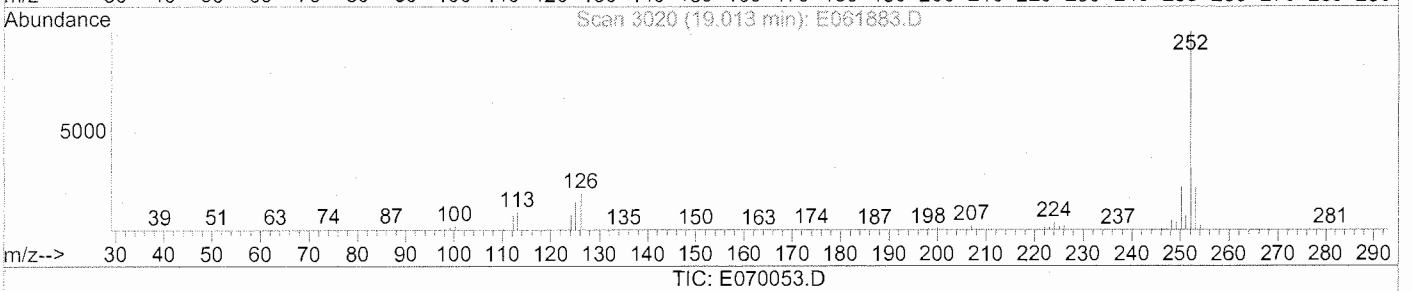
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070118\E070053.D Vial: 6
Acq On : 18 Jan 2007 3:17 pm Operator: GJ
Sample : LCS 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:37 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration







TIC: E070053.D

(82) Benzo(b)fluoranthene (T)

18.84min 45.38mg/L m

response 290732

Ion	Exp%	Act%
252.10	100	100
253.10	22.10	20.94
125.10	7.90	15.23#
0.00	0.00	0.00

Aft
1/19/07
- wrong peak

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070053.D Vial: 6
Acq On : 18 Jan 2007 3:17 pm Operator: GJ
Sample : LCS 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:36:19 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	139477	40.00	mg/L	-0.07
22) Naphthalene-d8	7.94	136	558278	40.00	mg/L	-0.08
37) Acenaphthene-d10	10.18	164	324637	40.00	mg/L	-0.08
57) Phenanthrene-d10	12.06	188	518539	40.00	mg/L	-0.10
70) Chrysene-d12	16.65	240	303551	40.00	mg/L	-0.14
80) Perylene-d12	19.71	264	176677	40.00	mg/L	-0.20
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	175604	39.55	mg/L	-0.06
Spiked Amount 50.000			Recovery =	79.10%		
7) Phenol-d5	5.82	99	247672	43.03	mg/L	-0.05
Spiked Amount 50.000			Recovery =	86.06%		
23) Nitrobenzene-d5	7.03	82	221242	46.90	mg/L	-0.07
Spiked Amount 50.000			Recovery =	93.80%		
41) 2-Fluorobiphenyl	9.31	172	479658	46.86	mg/L	-0.08
Spiked Amount 50.000			Recovery =	93.72%		
61) 2,4,6-Tribromophenol	11.18	330	50702	40.77	mg/L	-0.09
Spiked Amount 50.000			Recovery =	81.54%		
73) Terphenyl-d14	14.56	244	406303	47.89	mg/L	-0.13
Spiked Amount 50.000			Recovery =	95.78%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.95	88	78734	38.55	mg/L #	81
3) N-Nitrosodimethylamine	3.31	42	110666	41.67	mg/L	92
4) Pyridine	3.33	79	195155	36.81	mg/L #	67
5) PGMEA	4.57	43	368587	38.39	mg/L #	89
8) Phenol	5.83	94	268661	44.30	mg/L	90
9) Aniline	5.90	93	315447	44.93	mg/L	97
10) Bis(2-chloroethyl)ether	5.95	93	218808	43.86	mg/L	98
11) 2-Chlorophenol	6.05	128	226189	44.01	mg/L	97
12) 1,3-Dichlorobenzene	6.24	146	216408	38.47	mg/L	99
13) 1,4-Dichlorobenzene	6.30	146	223411	38.89	mg/L	100
14) Benzyl alcohol	6.46	108	150284	45.86	mg/L #	78
15) 1,2-Dichlorobenzene	6.55	146	212708	39.69	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.58	99	150683	46.22	mg/L	99
17) 2-Methylphenol	6.62	108	203592	45.14	mg/L	100
18) Bis(2-chloroisopropyl)ethe	6.66	45	376008	39.52	mg/L #	82
19) 4-Methylphenol	6.80	107	263908	46.21	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.84	70	157912	46.84	mg/L #	83
21) Hexachloroethane	6.95	117	78443	37.12	mg/L #	80
24) Nitrobenzene	7.06	77	229855	46.37	mg/L #	84
25) Isophorone	7.35	82	417007	46.91	mg/L	94
26) 2-Nitrophenol	7.46	139	123674	44.30	mg/L #	89
27) 2,4-Dimethylphenol	7.48	122	213853	47.29	mg/L	83
28) Benzoic acid	7.70	122	481070	161.73	mg/L #	83
29) Bis(2-chloroethoxy)methane	7.61	93	254162	45.51	mg/L #	94
30) 2,4-Dichlorophenol	7.76	162	182168	47.56	mg/L	98
31) 1,2,4-Trichlorobenzene	7.87	180	168579	40.86	mg/L	99
32) Naphthalene	7.97	128	638238	43.64	mg/L	99
33) 4-Chloroaniline	8.04	127	256173	50.11	mg/L	94
34) Hexachlorobutadiene	8.18	225	77256	35.61	mg/L	99
35) 4-Chloro-3-methylphenol	8.63	107	190924	48.79	mg/L	93
36) 2-Methylnaphthalene	8.84	142	446508	45.23	mg/L	98
38) Hexachlorocyclopentadiene	9.11	237	44501	17.23	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070053.D Vial: 6
Acq On : 18 Jan 2007 3:17 pm Operator: GJ
Sample : LCS 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:36:19 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

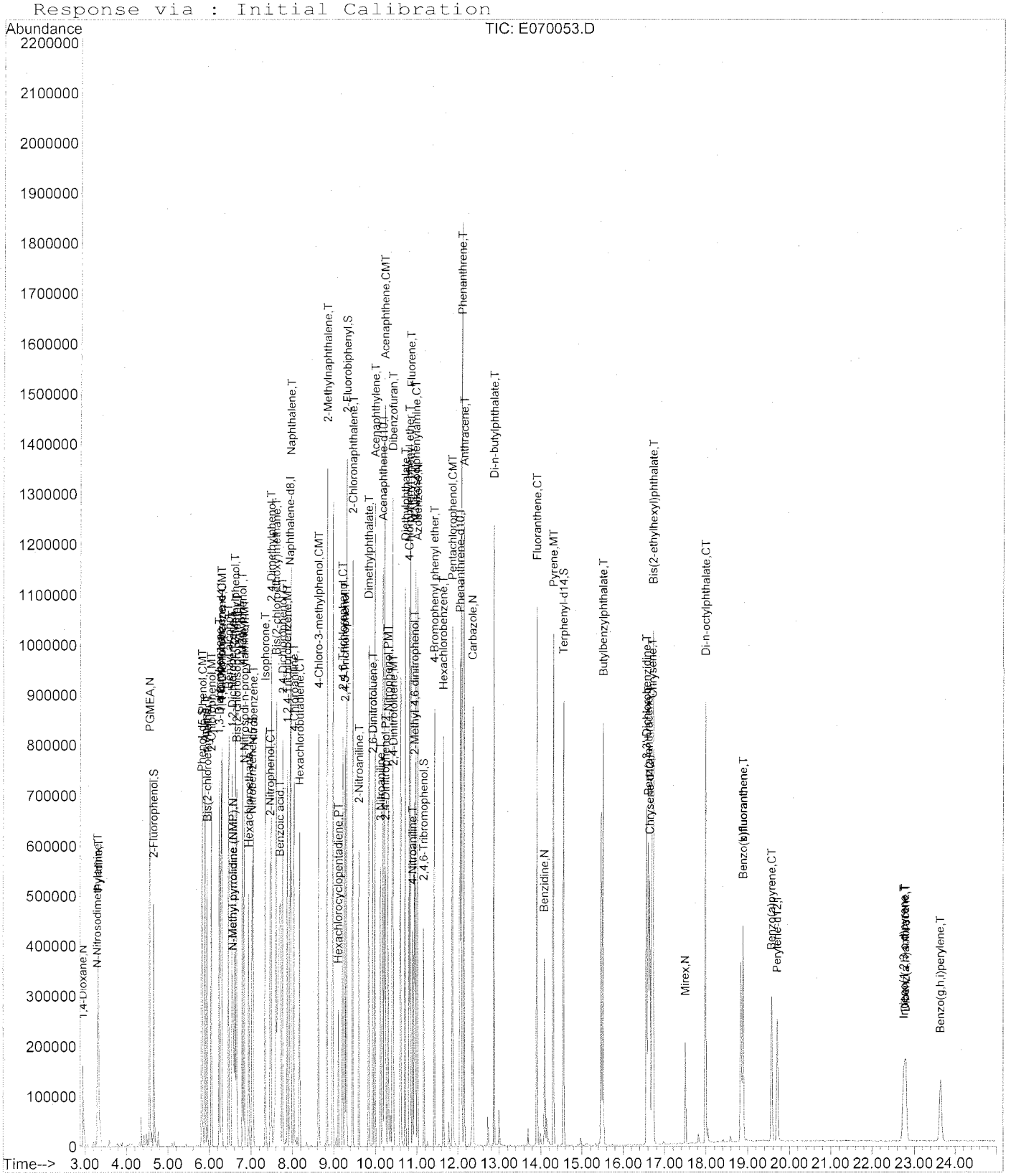
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.22	196	121785	45.54	mg/L		99
40)	2,4,5-Trichlorophenol	9.27	196	131069	45.24	mg/L	#	97
42)	2-Chloronaphthalene	9.46	162	394307	43.09	mg/L		98
43)	2-Nitroaniline	9.61	65	124080	44.12	mg/L		88
44)	Dimethylphthalate	9.85	163	469054	46.73	mg/L		96
45)	Acenaphthylene	9.99	152	673181	45.25	mg/L		100
46)	2,6-Dinitrotoluene	9.94	165	110765	47.20	mg/L		93
47)	3-Nitroaniline	10.13	138	110041	52.91	mg/L		87
48)	Acenaphthene	10.22	154	446371	45.51	mg/L		89
49)	2,4-Dinitrophenol	10.25	184	94384	67.38	mg/L	#	59
50)	4-Nitrophenol	10.31	109	102830	89.43	mg/L	#	55
51)	Dibenzofuran	10.42	168	595514	46.46	mg/L		95
52)	2,4-Dinitrotoluene	10.44	165	142217	47.44	mg/L	#	89
53)	Fluorene	10.85	166	493361	47.29	mg/L		98
54)	Diethylphthalate	10.72	149	486172	48.09	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.82	204	214015	47.51	mg/L		94
56)	4-Nitroaniline	10.90	138	98766	51.94	mg/L	#	85
58)	2-Methyl-4,6-dinitrophenol	10.95	198	132523	76.62	mg/L	#	88
59)	N-Nitrosodiphenylamine	10.98	169	335049	45.25	mg/L		94
60)	Azobenzene	11.02	77	466037	43.97	mg/L	#	97
62)	4-Bromophenyl phenyl ether	11.43	248	111538	40.95	mg/L		93
63)	Hexachlorobenzene	11.65	284	113555	39.60	mg/L		92
64)	Pentachlorophenol	11.87	266	136128	71.63	mg/L		98
65)	Phenanthrene	12.09	178	670585	46.20	mg/L		100
66)	Anthracene	12.15	178	665584	46.87	mg/L		99
67)	Carbazole	12.36	167	509348	62.14	mg/L		98
68)	Di-n-butylphthalate	12.88	149	817506	51.45	mg/L		99
69)	Fluoranthene	13.92	202	642282	51.93	mg/L	#	95
71)	Benzidine	14.10	184	218560	56.92	mg/L	#	97
72)	Pyrene	14.31	202	624576	47.61	mg/L		99
74)	Butylbenzylphthalate	15.52	149	318028	53.87	mg/L		94
75)	3,3'-Dichlorobenzidine	16.57	252	217453	97.48	mg/L	#	96
76)	Benz(a)anthracene	16.61	228	408456	46.32	mg/L		99
77)	Chrysene	16.70	228	379791	45.89	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.73	149	467750	61.05	mg/L		98
79)	Mirex	17.50	272	41340	25.07	mg/L		99
81)	Di-n-octylphthalate	17.99	149	696379	61.13	mg/L		100
82)	Benzo(b)fluoranthene	18.90	252	282316	44.06	mg/L	#	93
83)	Benzo(k)fluoranthene	18.90	252	281932	45.39	mg/L	#	94
84)	Benzo(a)pyrene	19.57	252	230646	45.69	mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	22.75	276	197450	48.39	mg/L	#	83
86)	Dibenz(a,h)anthracene	22.80	278	172748	49.17	mg/L		99
87)	Benzo(g,h,i)perylene	23.65	276	160628	47.73	mg/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070053.D Vial: 6
Acq On : 18 Jan 2007 3:17 pm Operator: GJ
Sample : LCS 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:36 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/19/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76124	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070054.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 15:50	**Quant Date:**	01/19/2007 08:38	**Vial:**	7
Run Type:	DLCS			**Dilution:**	1.0
Lab ID:	DWG0700129-2			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	122874	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	493017	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	284328	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	463610	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	271247	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	168412	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	161448	41.27	83	23-115	OK	
1	Phenol-d5	5.82	0.00	0.00	99	218316	43.06	86	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	197510	47.41	95	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	420393	46.89	94	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	44173	39.72	79	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	356230	46.99	94	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.95		0.00	88	73756	40.99	41.0		
1	N-Nitrosodimethylamine	3.31	0.01	0.00	42	98560	42.12	42.1		
1	Pyridine	3.33	0.01	0.00	79	153646	32.90	32.9		
1	PGMEA	4.57		0.00	43	331410	39.19	39.2		
1	Phenol	5.83		0.00	94	238549	44.65	44.7		
1	Aniline	5.90		0.00	93	28550I	46.16	46.2		
1	Bis(2-chloroethyl) Ether	5.95		0.00	93	196282	44.66	44.7		
1	2-Chlorophenol	6.05		0.00	128	203685	44.98	45.0		
1	1,3-Dichlorobenzene	6.24	0.01	0.00	146	195154	39.38	39.4		
1	1,4-Dichlorobenzene	6.30		0.00	146	199330	39.39	39.4		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
e: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070054.D		**Instrument:** MSE
Acqu Date:	01/18/2007 15:50	**Quant Date:** 01/19/2007 08:38	**Vial:** 7
Run Type:	DLCS		**Dilution:** 1.0
Lab ID:	DWG0700129-2		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.46		0.00	108	132351	45.84	45.8		
1	1,2-Dichlorobenzene	6.55		0.00	146	190936	40.44	40.4		
1	1-Methyl-2-pyrrolidinone	6.57	-0.01	0.00	99	130778	45.54	45.5		
1	2-Methylphenol	6.62		0.00	108	184027	46.32	46.3		
1	Bis(2-Chloroisopropyl)ether	6.66	0.01	0.00	45	336018	40.09	40.1		
1	4-Methylphenol	6.80		0.00	107	234960	46.70	46.7		
1	N-Nitrosodi-n-propylamine	6.84		0.00	70	139616	47.01	47.0		
1	Hexachloroethane	6.95		0.00	117	70858	38.06	38.1		
2	Nitrobenzene	7.05		0.00	77	202071	46.16	46.2		
2	Isophorone	7.34		0.00	82	370056	47.14	47.1		
2	2-Nitrophenol	7.46		0.00	139	109999	44.61	44.6		
2	2,4-Dimethylphenol	7.48		0.00	122	189194	47.38	47.4		
2	Benzoic acid	7.68	-0.05	-0.01	122	352779	134.30	134		
2	bis(2-Chloroethoxy)methane	7.60		0.00	93	226653	45.95	46.0		
2	2,4-Dichlorophenol	7.76		0.00	162	161704	47.80	47.8		
2	1,2,4-Trichlorobenzene	7.87		0.00	180	150926	41.42	41.4		
2	Naphthalene	7.96		0.00	128	562035	43.51	43.5		
2	4-Chloroaniline	8.03	-0.01	0.00	127	228831	50.69	50.7		
2	Hexachlorobutadiene	8.17		0.00	225	69804	36.43	36.4		
2	4-Chloro-3-methylphenol	8.63		0.00	107	167702	48.53	48.5		
2	2-Methylnaphthalene	8.83		0.00	142	390771	44.82	44.8		
3	Hexachlorocyclopentadiene	9.11		0.00	237	36556	16.16	16.2		
3	2,4,6-Trichlorophenol	9.21		0.00	196	108132	46.17	46.2		
3	2,4,5-Trichlorophenol	9.26	-0.01	0.00	196	114882	45.27	45.3		
3	2-Chloronaphthalene	9.45		0.00	162	347447	43.35	43.4		
3	2-Nitroaniline	9.61		0.00	65	107474	43.63	43.6		
3	Dimethyl Phthalate	9.84	-0.01	0.00	163	411913	46.86	46.9		
3	Acenaphthylene	9.99		0.00	152	591000	45.35	45.4		
3	2,6-Dinitrotoluene	9.94		0.00	165	96424	46.92	46.9		
3	3-Nitroaniline	10.12		0.00	138	97073	53.23	53.2		
3	Acenaphthene	10.22		0.00	154	392766	45.72	45.7		
3	2,4-Dinitrophenol	10.24	-0.01	0.00	184	78136	63.69	63.7		
3	4-Nitrophenol	10.31		0.00	109	88145	87.53	87.5		
3	Dibenzofuran	10.41		0.00	168	521823	46.48	46.5		
3	2,4-Dinitrotoluene	10.43		0.00	165	126454	48.16	48.2		
3	Fluorene	10.84	-0.01	0.00	166	429427	47.00	47.0		
3	Diethyl Phthalate	10.72		0.00	149	425979	48.11	48.1		
3	4-Chlorophenyl Phenyl Ether	10.82		0.00	204	188161	47.69	47.7		
3	4-Nitroaniline	10.90		0.00	138	86052	51.71	51.7		
4	2-Methyl-4,6-dinitrophenol	10.95		0.00	198	113053	73.11	73.1		
4	N-Nitrosodiphenylamine	10.97		0.00	169	293399	44.32	44.3		
4	Azobenzene	11.02		0.00	77	414231	43.71	43.7		
4	4-Bromophenyl Phenyl Ether	11.43		0.00	248	98376	40.40	40.4		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070054.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 15:50	**Quant Date:**	01/19/2007 08:38	**Vial:**	7
Run Type:	DLCS			**Dilution:**	1.0
Lab ID:	DWG0700129-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.64	-0.01	0.00	284	100466	39.19	39.2		
4	Pentachlorophenol	11.87		0.00	266	116873	68.79	68.8		
4	Phenanthrene	12.08		0.00	178	594840	45.84	45.8		
4	Anthracene	12.15		0.00	178	589965	46.47	46.5		
4	Carbazole	12.36		0.00	167	440817	60.86	60.9		
4	Di-n-butyl Phthalate	12.87	-0.01	0.00	149	728062	51.25	51.3		
4	Fluoranthene	13.91	-0.01	0.00	202	569189	51.48	51.5		
5	Benzidine	14.10		0.00	184	190220	55.44	55.4		
5	Pyrene	14.31		0.00	202	553277	47.20	47.2		
5	Butyl Benzyl Phthalate	15.51		0.00	149	284829	53.99	54.0		
5	3,3'-Dichlorobenzidine	16.56	-0.01	0.00	252	195227	97.85	97.9		
5	Benz(a)anthracene	16.60	-0.01	0.00	228	363314	46.11	46.1		
5	Chrysene	16.69	-0.01	0.00	228	337899	45.69	45.7		
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	422872	61.76	61.8		
5	Mirex	17.50		0.00	272	37602	25.52	25.5		
6	Di-n-octyl Phthalate	17.99		0.00	149	632659	58.26	58.3		
6	Benzo(b)fluoranthene	18.84		0.00	252	271046**m**	44.38	44.4		
6	Benzo(k)fluoranthene	18.89	-0.01	0.00	252	257167	43.44	43.4		
6	Benzo(a)pyrene	19.57		0.00	252	218811	45.48	45.5		
6	Indeno(1,2,3-cd)pyrene	22.74	-0.01	0.00	276	204649	52.62	52.6		
6	Dibenz(a,h)anthracene	22.79	-0.01	0.00	278	178979	53.44	53.4		
6	Benzo(g,h,i)perylene	23.64	-0.01	0.00	276	168681	52.59	52.6		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070054.D Vial: 7
Acq On : 18 Jan 2007 3:50 pm Operator: GJ
Sample : LCSD 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:37:41 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	122874	40.00	mg/L	-0.07
22) Naphthalene-d8	7.93	136	493017	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	284328	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	463610	40.00	mg/L	-0.10
70) Chrysene-d12	16.64	240	271247	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	168412	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	161448	41.27	mg/L	-0.06
Spiked Amount 50.000			Recovery =	82.54%		
7) Phenol-d5	5.82	99	218316	43.06	mg/L	-0.05
Spiked Amount 50.000			Recovery =	86.12%		
23) Nitrobenzene-d5	7.03	82	197510	47.41	mg/L	-0.07
Spiked Amount 50.000			Recovery =	94.82%		
41) 2-Fluorobiphenyl	9.30	172	420393	46.89	mg/L	-0.09
Spiked Amount 50.000			Recovery =	93.78%		
61) 2,4,6-Tribromophenol	11.17	330	44173	39.72	mg/L	-0.09
Spiked Amount 50.000			Recovery =	79.44%		
73) Terphenyl-d14	14.55	244	356230	46.99	mg/L	-0.13
Spiked Amount 50.000			Recovery =	93.98%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.95	88	73756	40.99	mg/L #	81
3) N-Nitrosodimethylamine	3.31	42	98560	42.12	mg/L	92
4) Pyridine	3.33	79	153646	32.90	mg/L #	67
5) PGMEA	4.57	43	331410	39.19	mg/L #	89
8) Phenol	5.83	94	238549	44.65	mg/L	90
9) Aniline	5.90	93	285501	46.16	mg/L	96
10) Bis(2-chloroethyl)ether	5.95	93	196282	44.66	mg/L	98
11) 2-Chlorophenol	6.05	128	203685	44.98	mg/L	97
12) 1,3-Dichlorobenzene	6.24	146	195154	39.38	mg/L	99
13) 1,4-Dichlorobenzene	6.30	146	199330	39.39	mg/L	99
14) Benzyl alcohol	6.46	108	132351	45.84	mg/L #	78
15) 1,2-Dichlorobenzene	6.55	146	190936	40.44	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.57	99	130778	45.54	mg/L	100
17) 2-Methylphenol	6.62	108	184027	46.32	mg/L	100
18) Bis(2-chloroisopropyl)ethe	6.66	45	336018	40.09	mg/L #	83
19) 4-Methylphenol	6.80	107	234960	46.70	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.84	70	139616	47.01	mg/L #	82
21) Hexachloroethane	6.95	117	70858	38.06	mg/L #	80
24) Nitrobenzene	7.05	77	202071	46.16	mg/L #	83
25) Isophorone	7.34	82	370056	47.14	mg/L	94
26) 2-Nitrophenol	7.46	139	109999	44.61	mg/L #	88
27) 2,4-Dimethylphenol	7.48	122	189194	47.38	mg/L	84
28) Benzoic acid	7.68	122	352779	134.30	mg/L #	84
29) Bis(2-chloroethoxy)methane	7.60	93	226653	45.95	mg/L #	94
30) 2,4-Dichlorophenol	7.76	162	161704	47.80	mg/L	98
31) 1,2,4-Trichlorobenzene	7.87	180	150926	41.42	mg/L	99
32) Naphthalene	7.96	128	562035	43.51	mg/L	100
33) 4-Chloroaniline	8.03	127	228831	50.69	mg/L	94
34) Hexachlorobutadiene	8.17	225	69804	36.43	mg/L	98
35) 4-Chloro-3-methylphenol	8.63	107	167702	48.53	mg/L	92
36) 2-Methylnaphthalene	8.83	142	390771	44.82	mg/L	99
38) Hexachlorocyclopentadiene	9.11	237	36556	16.16	mg/L	98

(#) = qualifier out of range (m) = manual integration
E070054.D BA061226.M Fri Jan 19 08:38:33 2007 1/19/07 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070054.D Vial: 7
Acq On : 18 Jan 2007 3:50 pm Operator: GJ
Sample : LCSD 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:37:41 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

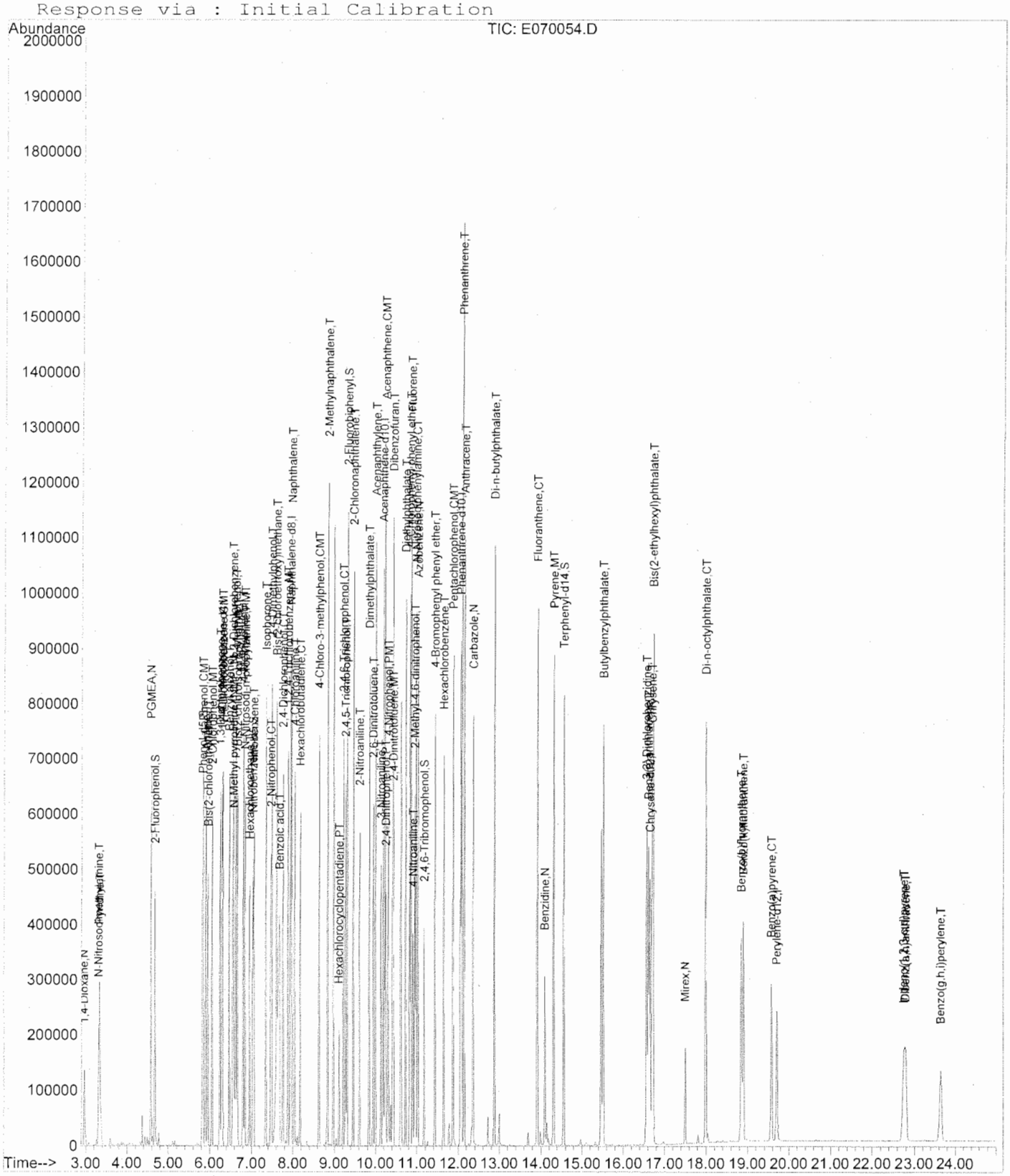
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.21	196	108132	46.17 mg/L		99
40)	2,4,5-Trichlorophenol	9.26	196	114882	45.27 mg/L	#	97
42)	2-Chloronaphthalene	9.45	162	347447	43.35 mg/L		98
43)	2-Nitroaniline	9.61	65	107474	43.63 mg/L		86
44)	Dimethylphthalate	9.84	163	411913	46.86 mg/L		97
45)	Acenaphthylene	9.99	152	591000	45.35 mg/L		100
46)	2,6-Dinitrotoluene	9.94	165	96424	46.92 mg/L		93
47)	3-Nitroaniline	10.12	138	97073	53.23 mg/L		86
48)	Acenaphthene	10.22	154	392766	45.72 mg/L		89
49)	2,4-Dinitrophenol	10.24	184	78136	63.69 mg/L	#	55
50)	4-Nitrophenol	10.31	109	88145	87.53 mg/L	#	54
51)	Dibenzofuran	10.41	168	521823	46.48 mg/L		95
52)	2,4-Dinitrotoluene	10.43	165	126454	48.16 mg/L	#	91
53)	Fluorene	10.84	166	429427	47.00 mg/L		99
54)	Diethylphthalate	10.72	149	425979	48.11 mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.82	204	188161	47.69 mg/L		94
56)	4-Nitroaniline	10.90	138	86052	51.71 mg/L	#	84
58)	2-Methyl-4,6-dinitrophenol	10.95	198	113053	73.11 mg/L	#	88
59)	N-Nitrosodiphenylamine	10.97	169	293399	44.32 mg/L		95
60)	Azobenzene	11.02	77	414231	43.71 mg/L	#	97
62)	4-Bromophenyl phenyl ether	11.43	248	98376	40.40 mg/L		93
63)	Hexachlorobenzene	11.64	284	100466	39.19 mg/L		92
64)	Pentachlorophenol	11.87	266	116873	68.79 mg/L		98
65)	Phenanthrene	12.08	178	594840	45.84 mg/L		100
66)	Anthracene	12.15	178	589965	46.47 mg/L		99
67)	Carbazole	12.36	167	440817	60.86 mg/L		98
68)	Di-n-butylphthalate	12.87	149	728062	51.25 mg/L		99
69)	Fluoranthene	13.91	202	569189	51.48 mg/L	#	95
71)	Benzidine	14.10	184	190220	55.44 mg/L	#	97
72)	Pyrene	14.31	202	553277	47.20 mg/L		99
74)	Butylbenzylphthalate	15.51	149	284829	53.99 mg/L		94
75)	3,3'-Dichlorobenzidine	16.56	252	195227	97.85 mg/L	#	97
76)	Benz(a)anthracene	16.60	228	363314	46.11 mg/L		99
77)	Chrysene	16.69	228	337899	45.69 mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.72	149	422872	61.76 mg/L		98
79)	Mirex	17.50	272	37602	25.52 mg/L		98
81)	Di-n-octylphthalate	17.99	149	632659	58.26 mg/L		100
82)	Benzo(b)fluoranthene	18.84	252	271046m	44.38 mg/L		
83)	Benzo(k)fluoranthene	18.89	252	257167	43.44 mg/L	#	94
84)	Benzo(a)pyrene	19.57	252	218811	45.48 mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	22.74	276	204649	52.62 mg/L	#	83
86)	Dibenz(a,h)anthracene	22.79	278	178979	53.44 mg/L		97
87)	Benzo(g,h,i)perylene	23.64	276	168681	52.59 mg/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070054.D Vial: 7
Acq On : 18 Jan 2007 3:50 pm Operator: GJ
Sample : LCSD 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:38 2007 Quant Results File: BA061226.RES

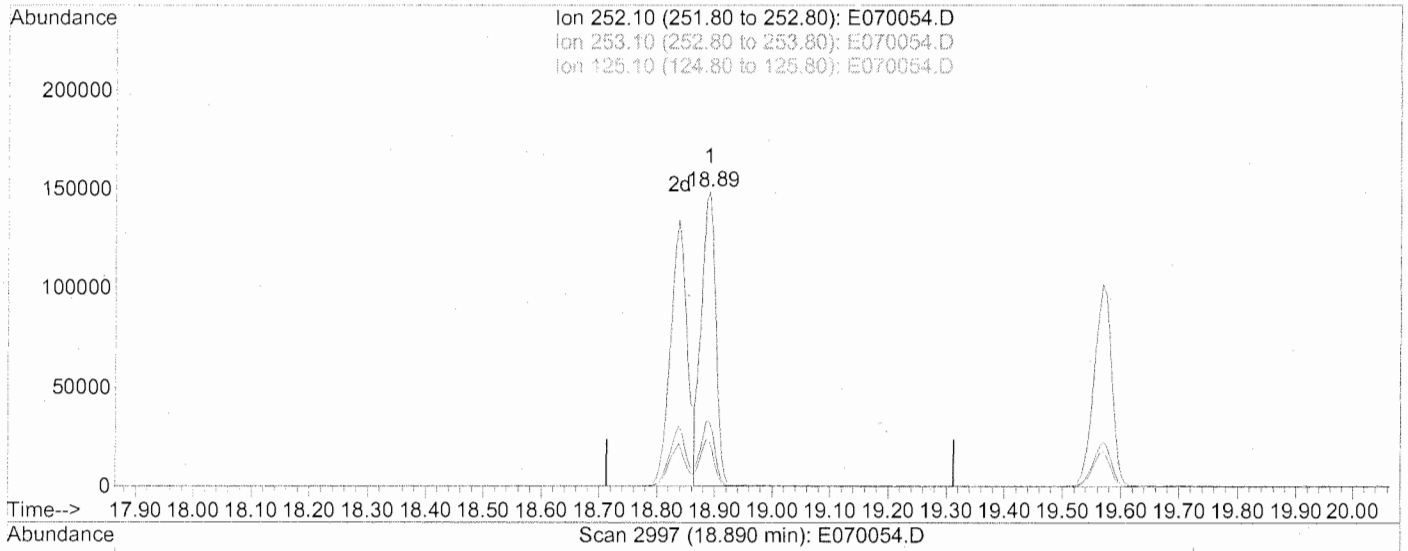
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

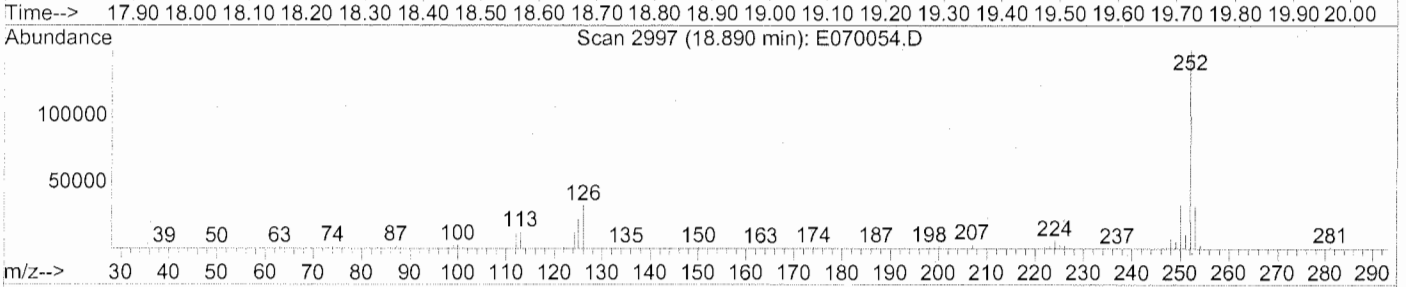


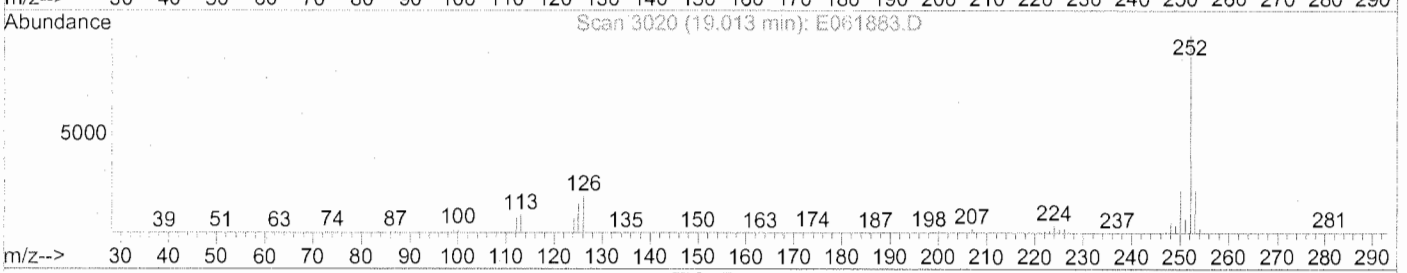
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070118\E070054.D Vial: 7
Acq On : 18 Jan 2007 3:50 pm Operator: GJ
Sample : LCSD 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:37 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration







TIC: E070054.D

(82) Benzo(b)fluoranthene (T)

18.89min 42.17mg/L

response 257563

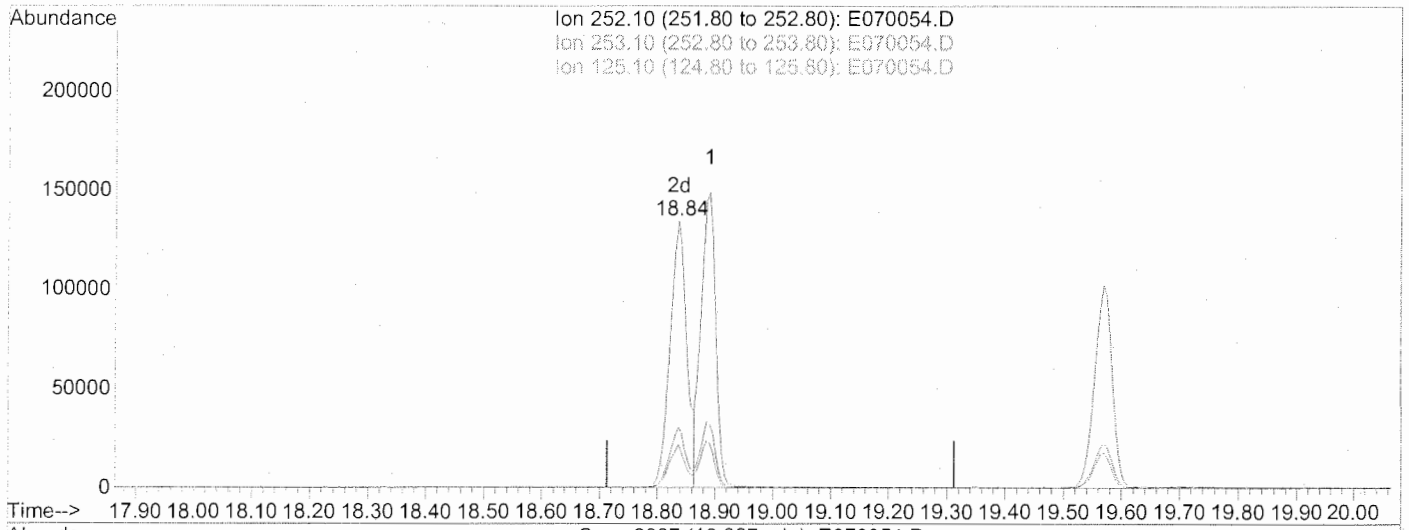
Ion	Exp%	Act%
252.10	100	100
253.10	22.10	21.82
125.10	7.90	15.30#
0.00	0.00	0.00

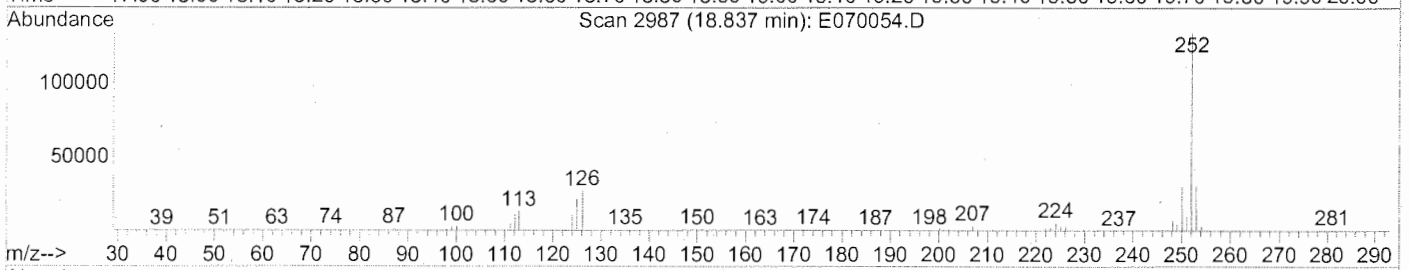
Bef

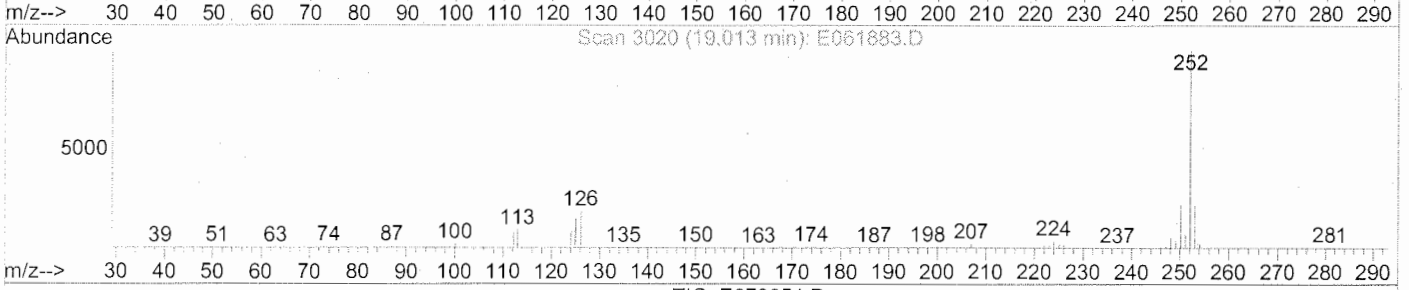
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E070118\E070054.D Vial: 7
Acq On : 18 Jan 2007 3:50 pm Operator: GJ
Sample : LCSD 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:38 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Multiple Level Calibration







TIC: E070054.D

(82) Benzo(b)fluoranthene (T)

18.84min 44.38mg/L m

response 271046

Ion	Exp%	Act%
252.10	100	100
253.10	22.10	20.74
125.10	7.90	14.54#
0.00	0.00	0.00

Aft.
1/19/07
- wrong peak

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070054.D Vial: 7
Acq On : 18 Jan 2007 3:50 pm Operator: GJ
Sample : LCSD 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:37:41 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	122874	40.00	mg/L	-0.07
22) Naphthalene-d8	7.93	136	493017	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	284328	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	463610	40.00	mg/L	-0.10
70) Chrysene-d12	16.64	240	271247	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	168412	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	161448	41.27	mg/L	-0.06
Spiked Amount 50.000			Recovery =	82.54%		
7) Phenol-d5	5.82	99	218316	43.06	mg/L	-0.05
Spiked Amount 50.000			Recovery =	86.12%		
23) Nitrobenzene-d5	7.03	82	197510	47.41	mg/L	-0.07
Spiked Amount 50.000			Recovery =	94.82%		
41) 2-Fluorobiphenyl	9.30	172	420393	46.89	mg/L	-0.09
Spiked Amount 50.000			Recovery =	93.78%		
61) 2,4,6-Tribromophenol	11.17	330	44173	39.72	mg/L	-0.09
Spiked Amount 50.000			Recovery =	79.44%		
73) Terphenyl-d14	14.55	244	356230	46.99	mg/L	-0.13
Spiked Amount 50.000			Recovery =	93.98%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.95	88	73756	40.99	mg/L #	81
3) N-Nitrosodimethylamine	3.31	42	98560	42.12	mg/L	92
4) Pyridine	3.33	79	153646	32.90	mg/L #	67
5) PGMEA	4.57	43	331410	39.19	mg/L #	89
8) Phenol	5.83	94	238549	44.65	mg/L	90
9) Aniline	5.90	93	285501	46.16	mg/L	96
10) Bis(2-chloroethyl)ether	5.95	93	196282	44.66	mg/L	98
11) 2-Chlorophenol	6.05	128	203685	44.98	mg/L	97
12) 1,3-Dichlorobenzene	6.24	146	195154	39.38	mg/L	99
13) 1,4-Dichlorobenzene	6.30	146	199330	39.39	mg/L	99
14) Benzyl alcohol	6.46	108	132351	45.84	mg/L #	78
15) 1,2-Dichlorobenzene	6.55	146	190936	40.44	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.57	99	130778	45.54	mg/L	100
17) 2-Methylphenol	6.62	108	184027	46.32	mg/L	100
18) Bis(2-chloroisopropyl)ethe	6.66	45	336018	40.09	mg/L #	83
19) 4-Methylphenol	6.80	107	234960	46.70	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.84	70	139616	47.01	mg/L #	82
21) Hexachloroethane	6.95	117	70858	38.06	mg/L #	80
24) Nitrobenzene	7.05	77	202071	46.16	mg/L #	83
25) Isophorone	7.34	82	370056	47.14	mg/L	94
26) 2-Nitrophenol	7.46	139	109999	44.61	mg/L #	88
27) 2,4-Dimethylphenol	7.48	122	189194	47.38	mg/L	84
28) Benzoic acid	7.68	122	352779	134.30	mg/L #	84
29) Bis(2-chloroethoxy)methane	7.60	93	226653	45.95	mg/L #	94
30) 2,4-Dichlorophenol	7.76	162	161704	47.80	mg/L	98
31) 1,2,4-Trichlorobenzene	7.87	180	150926	41.42	mg/L	99
32) Naphthalene	7.96	128	562035	43.51	mg/L	100
33) 4-Chloroaniline	8.03	127	228831	50.69	mg/L	94
34) Hexachlorobutadiene	8.17	225	69804	36.43	mg/L	98
35) 4-Chloro-3-methylphenol	8.63	107	167702	48.53	mg/L	92
36) 2-Methylnaphthalene	8.83	142	390771	44.82	mg/L	99
38) Hexachlorocyclopentadiene	9.11	237	36556	16.16	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070054.D Vial: 7
Acq On : 18 Jan 2007 3:50 pm Operator: GJ
Sample : LCSD 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:37:41 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

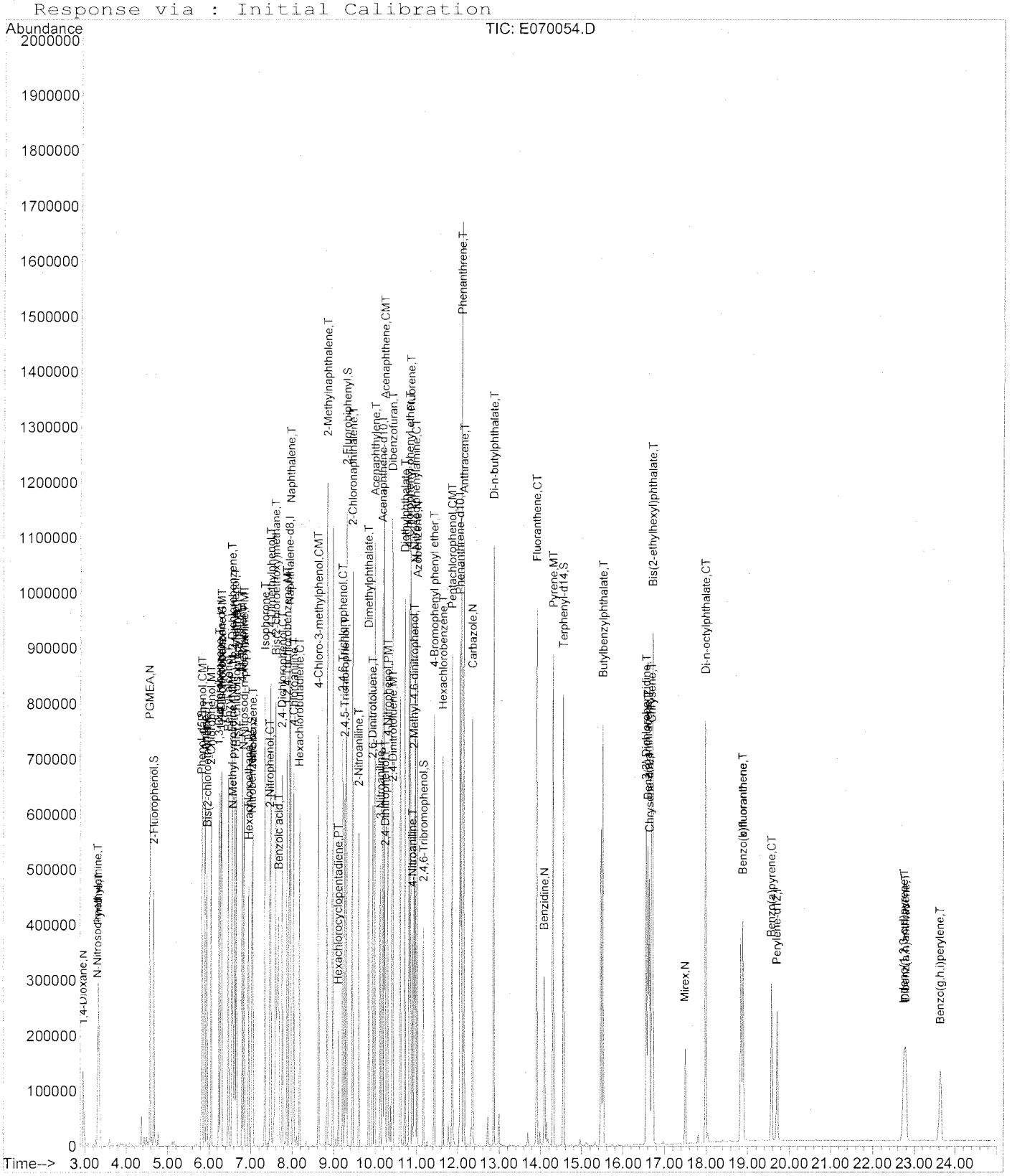
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.21	196	108132	46.17	mg/L		99
40)	2,4,5-Trichlorophenol	9.26	196	114882	45.27	mg/L	#	97
42)	2-Chloronaphthalene	9.45	162	347447	43.35	mg/L		98
43)	2-Nitroaniline	9.61	65	107474	43.63	mg/L		86
44)	Dimethylphthalate	9.84	163	411913	46.86	mg/L		97
45)	Acenaphthylene	9.99	152	591000	45.35	mg/L		100
46)	2,6-Dinitrotoluene	9.94	165	96424	46.92	mg/L		93
47)	3-Nitroaniline	10.12	138	97073	53.23	mg/L		86
48)	Acenaphthene	10.22	154	392766	45.72	mg/L		89
49)	2,4-Dinitrophenol	10.24	184	78136	63.69	mg/L	#	55
50)	4-Nitrophenol	10.31	109	88145	87.53	mg/L	#	54
51)	Dibenzofuran	10.41	168	521823	46.48	mg/L		95
52)	2,4-Dinitrotoluene	10.43	165	126454	48.16	mg/L	#	91
53)	Fluorene	10.84	166	429427	47.00	mg/L		99
54)	Diethylphthalate	10.72	149	425979	48.11	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.82	204	188161	47.69	mg/L		94
56)	4-Nitroaniline	10.90	138	86052	51.71	mg/L	#	84
58)	2-Methyl-4,6-dinitrophenol	10.95	198	113053	73.11	mg/L	#	88
59)	N-Nitrosodiphenylamine	10.97	169	293399	44.32	mg/L		95
60)	Azobenzene	11.02	77	414231	43.71	mg/L	#	97
62)	4-Bromophenyl phenyl ether	11.43	248	98376	40.40	mg/L		93
63)	Hexachlorobenzene	11.64	284	100466	39.19	mg/L		92
64)	Pentachlorophenol	11.87	266	116873	68.79	mg/L		98
65)	Phenanthrene	12.08	178	594840	45.84	mg/L		100
66)	Anthracene	12.15	178	589965	46.47	mg/L		99
67)	Carbazole	12.36	167	440817	60.86	mg/L		98
68)	Di-n-butylphthalate	12.87	149	728062	51.25	mg/L		99
69)	Fluoranthene	13.91	202	569189	51.48	mg/L	#	95
71)	Benzidine	14.10	184	190220	55.44	mg/L	#	97
72)	Pyrene	14.31	202	553277	47.20	mg/L		99
74)	Butylbenzylphthalate	15.51	149	284829	53.99	mg/L		94
75)	3,3'-Dichlorobenzidine	16.56	252	195227	97.85	mg/L	#	97
76)	Benz(a)anthracene	16.60	228	363314	46.11	mg/L		99
77)	Chrysene	16.69	228	337899	45.69	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.72	149	422872	61.76	mg/L		98
79)	Mirex	17.50	272	37602	25.52	mg/L		98
81)	Di-n-octylphthalate	17.99	149	632659	58.26	mg/L		100
82)	Benzo(b)fluoranthene	18.89	252	257563	42.17	mg/L	#	94
83)	Benzo(k)fluoranthene	18.89	252	257167	43.44	mg/L	#	94
84)	Benzo(a)pyrene	19.57	252	218811	45.48	mg/L	#	92
85)	Indeno(1,2,3-c,d)pyrene	22.74	276	204649	52.62	mg/L	#	83
86)	Dibenz(a,h)anthracene	22.79	278	178979	53.44	mg/L		97
87)	Benzo(g,h,i)perylene	23.64	276	168681	52.59	mg/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070054.D Vial: 7
Acq On : 18 Jan 2007 3:50 pm Operator: GJ
Sample : LCSD 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:37 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



RAW DATA

Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/09/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76109	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070055.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 16:22	**Quant Date:**	01/19/2007 08:43	**Vial:**	8
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-001			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	148683	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	580767	40.00	OK
3	Acenaphthene-d10	10.17	-0.01?	164	327489	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	509701	40.00	OK
5	Chrysene-d12	16.63	-0.02?	240	270345	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	160177	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	199820	42.21	84	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	267726	43.64	87	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	239477	48.80	98	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	510741	49.46	99	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	52978	43.33	87	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	401572	53.15	106	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.97	0.02	0.00	88	2222408	1,021	970	E	NR
1	N-Nitrosodimethylamine				42	0d		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070055.D		**Instrument:** MSE
Acqu Date:	01/18/2007 16:22	**Quant Date:** 01/19/2007 08:43	**Vial:** 8
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0700056-001		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	5002	1.62	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0**d**		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0**d**		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070055.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 16:22	**Quant Date:**	01/19/2007 08:43	**Vial:**	8
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-001			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate				149	0**d**		0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0**d**		0.84	U	
5	Benz(a)anthracene				228	0**d**		0.21	U	
5	Chrysene				228	0**d**		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	96316	14.11	13		
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0**d**		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070055.D Vial: 8
Acq On : 18 Jan 2007 4:22 pm Operator: GJ
Sample : D0700056-001 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:39:26 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	148683	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	580767	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	327489	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	509701	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	270345	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	160177	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	199820	42.21	mg/L	-0.05
Spiked Amount 50.000			Recovery =	84.42%		
7) Phenol-d5	5.81	99	267726	43.64	mg/L	-0.06
Spiked Amount 50.000			Recovery =	87.28%		
23) Nitrobenzene-d5	7.03	82	239477	48.80	mg/L	-0.08
Spiked Amount 50.000			Recovery =	97.60%		
41) 2-Fluorobiphenyl	9.30	172	510741	49.46	mg/L	-0.09
Spiked Amount 50.000			Recovery =	98.92%		
61) 2,4,6-Tribromophenol	11.17	330	52978	43.33	mg/L	-0.10
Spiked Amount 50.000			Recovery =	86.66%		
73) Terphenyl-d14	14.55	244	401572	53.15	mg/L	-0.13
Spiked Amount 50.000			Recovery =	106.30%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	2222408	1020.69	mg/L	88
28) Benzoic acid	7.54	122	5002	1.62	mg/L	84
67) Carbazole	12.35	167	315	Below Cal	#	23
78) Bis(2-ethylhexyl)phthalate	16.72	149	96316	14.11	mg/L	99

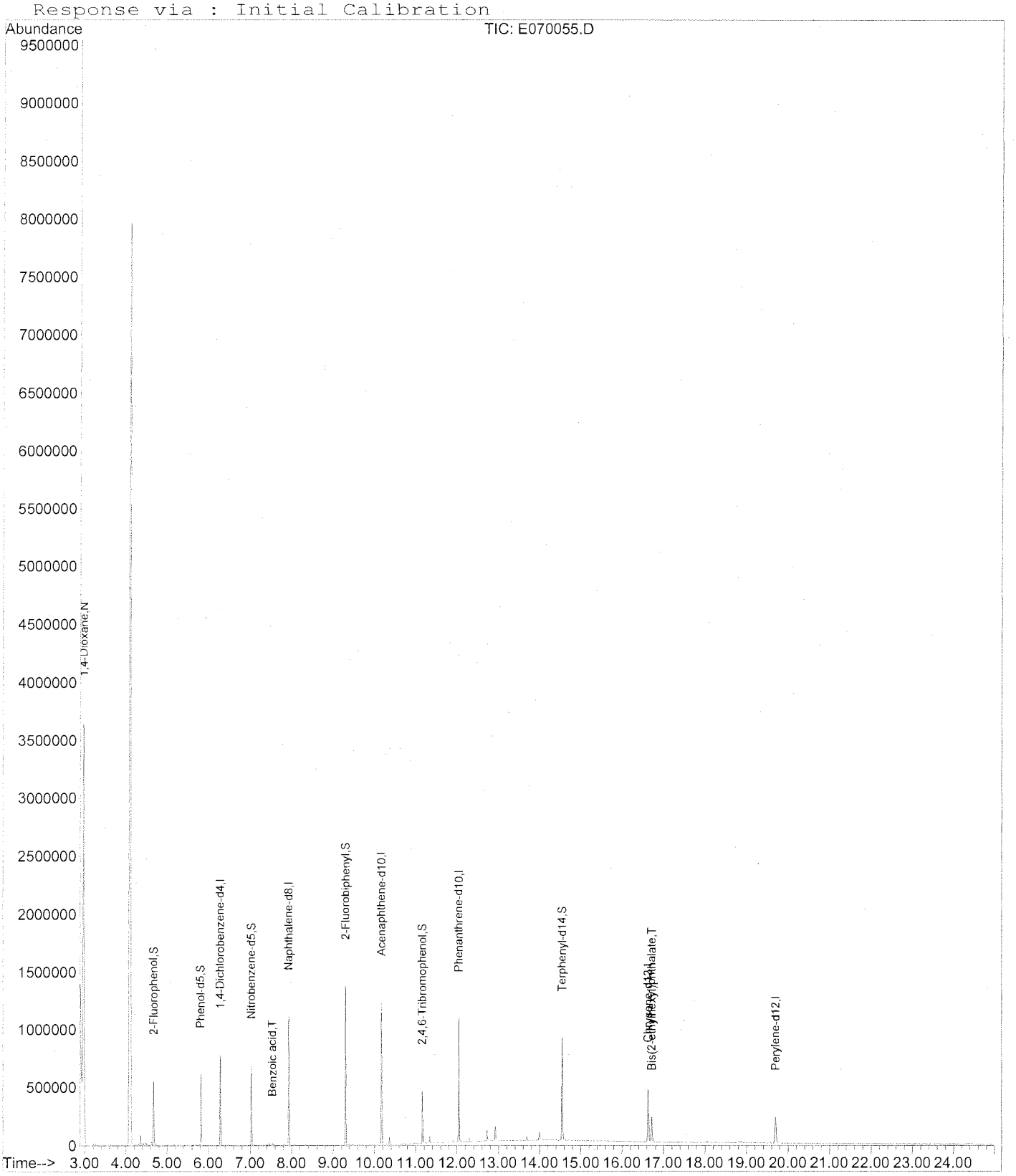
1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070055.D Vial: 8
Acq On : 18 Jan 2007 4:22 pm Operator: GJ
Sample : D0700056-001 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:43 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070055.D Vial: 8
Acq On : 18 Jan 2007 4:22 pm Operator: GJ
Sample : D0700056-001 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:39:26 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

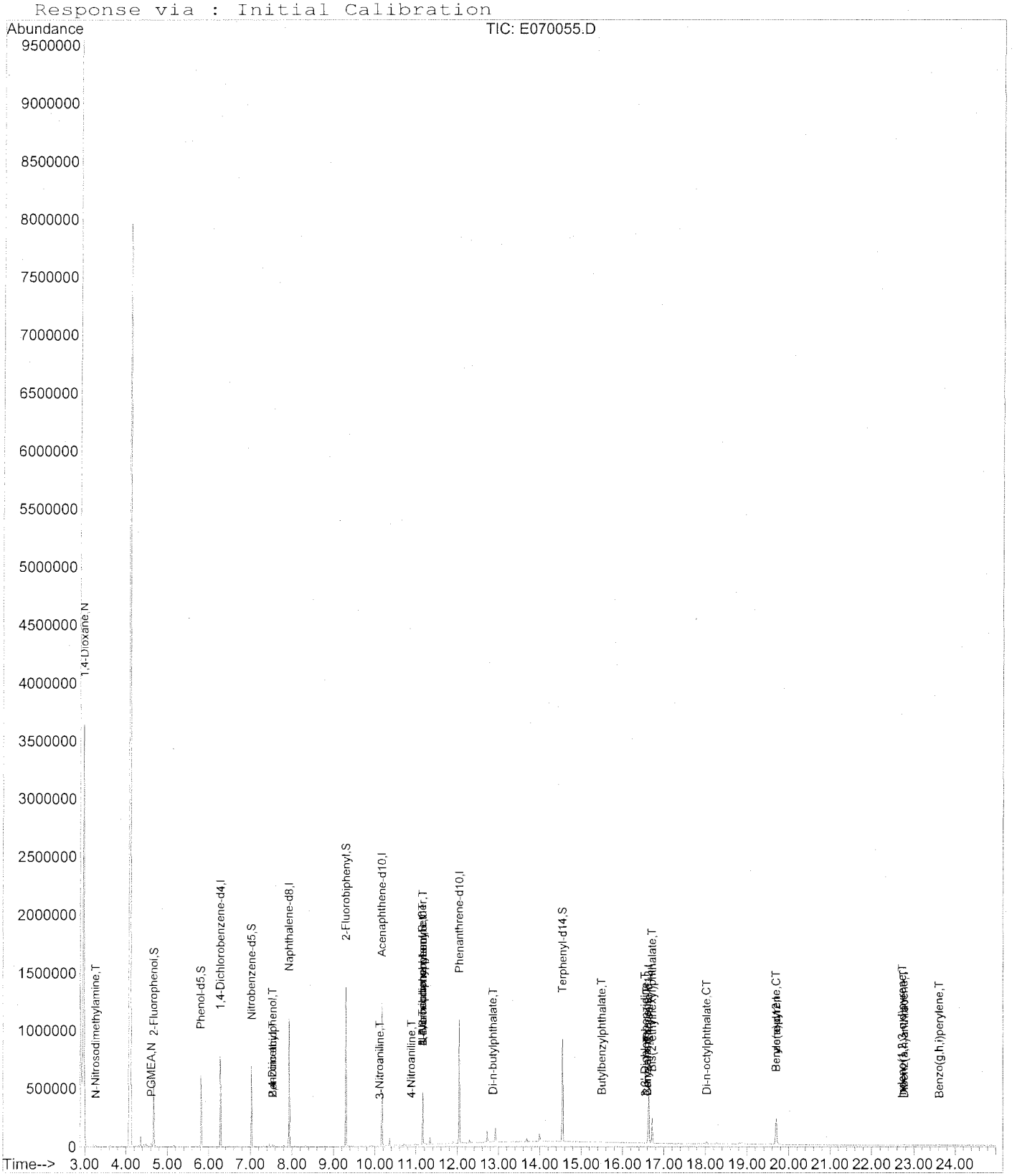
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	148683	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	580767	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	327489	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	509701	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	270345	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	160177	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	199820	42.21	mg/L	-0.05
Spiked Amount 50.000			Recovery =	84.42%		
7) Phenol-d5	5.81	99	267726	43.64	mg/L	-0.06
Spiked Amount 50.000			Recovery =	87.28%		
23) Nitrobenzene-d5	7.03	82	239477	48.80	mg/L	-0.08
Spiked Amount 50.000			Recovery =	97.60%		
41) 2-Fluorobiphenyl	9.30	172	510741	49.46	mg/L	-0.09
Spiked Amount 50.000			Recovery =	98.92%		
61) 2,4,6-Tribromophenol	11.17	330	52978	43.33	mg/L	-0.10
Spiked Amount 50.000			Recovery =	86.66%		
73) Terphenyl-d14	14.55	244	401572	53.15	mg/L	-0.13
Spiked Amount 50.000			Recovery =	106.30%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	2222408	1020.69	mg/L	88
3) N-Nitrosodimethylamine	3.26	42	752	0.27	mg/L #	1
5) PGMEA	4.62	43	3212	0.31	mg/L #	41
27) 2,4-Dimethylphenol	7.54	122	5002	1.06	mg/L #	1
28) Benzoic acid	7.54	122	5002	1.62	mg/L	84
47) 3-Nitroaniline	10.12	138	50	1.79	mg/L #	1
56) 4-Nitroaniline	10.89	138	394	2.35	mg/L #	67
59) N-Nitrosodiphenylamine	11.16	169	2434	0.33	mg/L #	38
62) 4-Bromophenyl phenyl ether	11.17	248	3087	1.15	mg/L #	1
67) Carbazole	12.35	167	315	Below Cal	#	23
68) Di-n-butylphthalate	12.86	149	3939	0.25	mg/L #	96
74) Butylbenzylphthalate	15.50	149	1587	0.30	mg/L #	83
75) 3,3'-Dichlorobenzidine	16.55	252	54	0.29	mg/L #	71
76) Benz(a)anthracene	16.59	228	3406	0.43	mg/L	96
77) Chrysene	16.59	228	3406	0.46	mg/L	94
78) Bis(2-ethylhexyl)phthalate	16.72	149	96316	14.11	mg/L	99
81) Di-n-octylphthalate	18.04	149	2644	0.26	mg/L #	31
84) Benzo(a)pyrene	19.70	252	1131	0.25	mg/L #	59
85) Indeno(1,2,3-c,d)pyrene	22.73	276	6098	1.65	mg/L #	85
86) Dibenz(a,h)anthracene	22.77	278	4965	1.56	mg/L	95
87) Benzo(g,h,i)perylene	23.61	276	4985	1.63	mg/L #	86

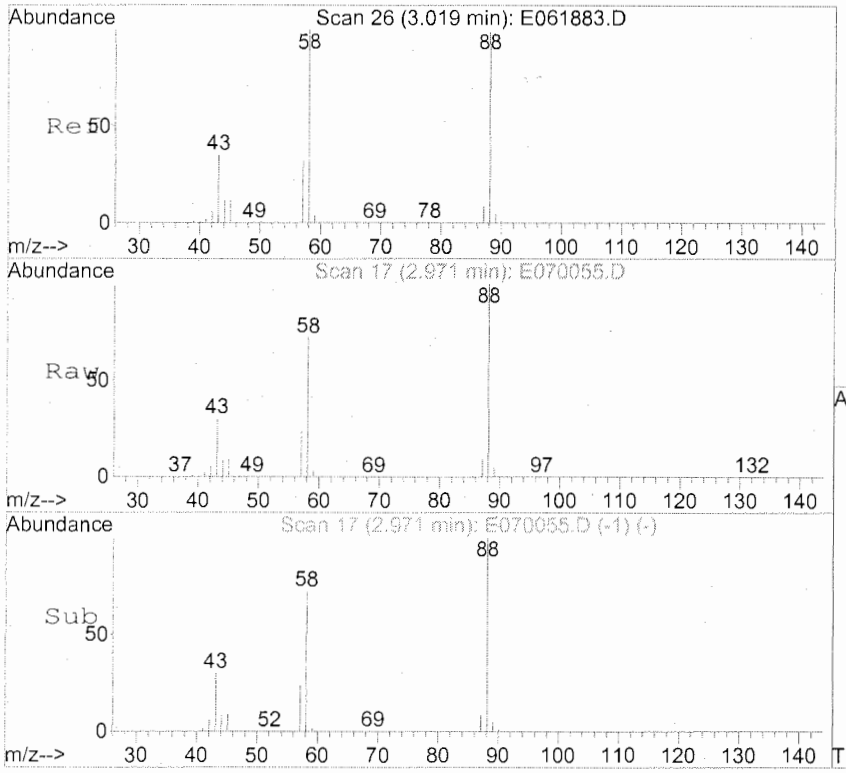
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070055.D Vial: 8
Acq On : 18 Jan 2007 4:22 pm Operator: GJ
Sample : D0700056-001 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:39 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

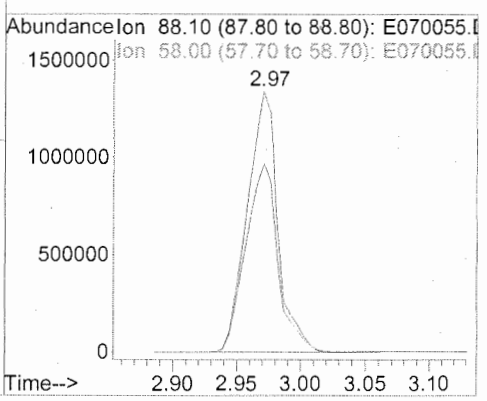


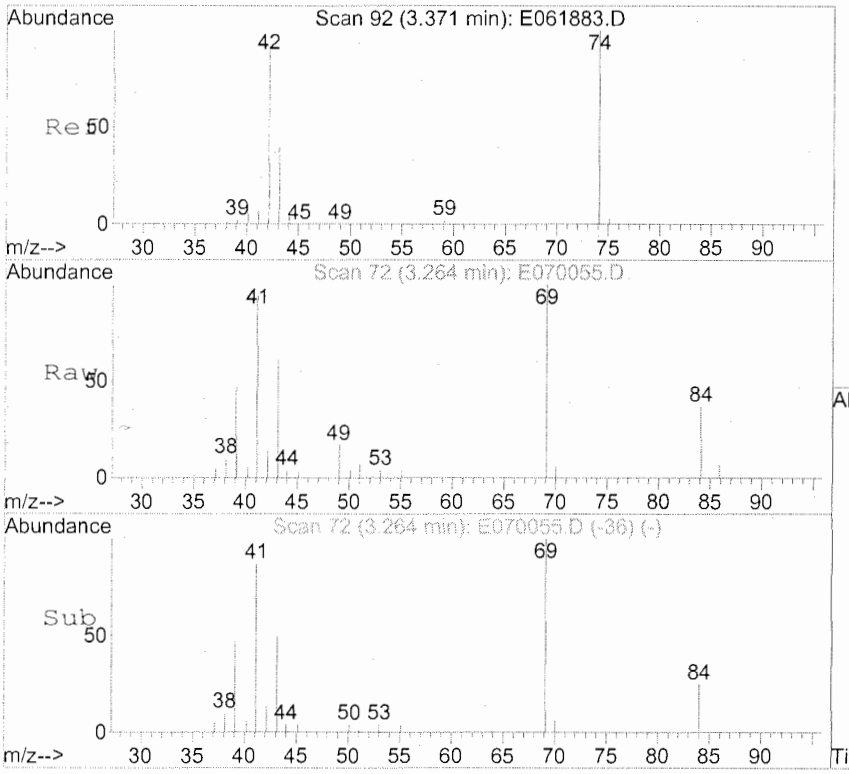


#2
1,4-Dioxane
Concen: 1020.69 mg/L
RT: 2.97 min Scan# 17
Delta R.T. -0.05 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion: 88 Resp: 2222408

Ion	Ratio	Lower	Upper
88	100		
58	76.3	53.5	80.3

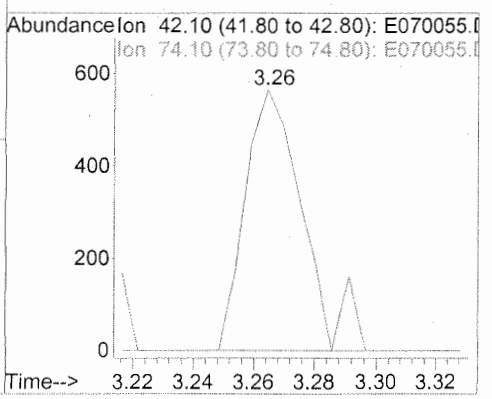


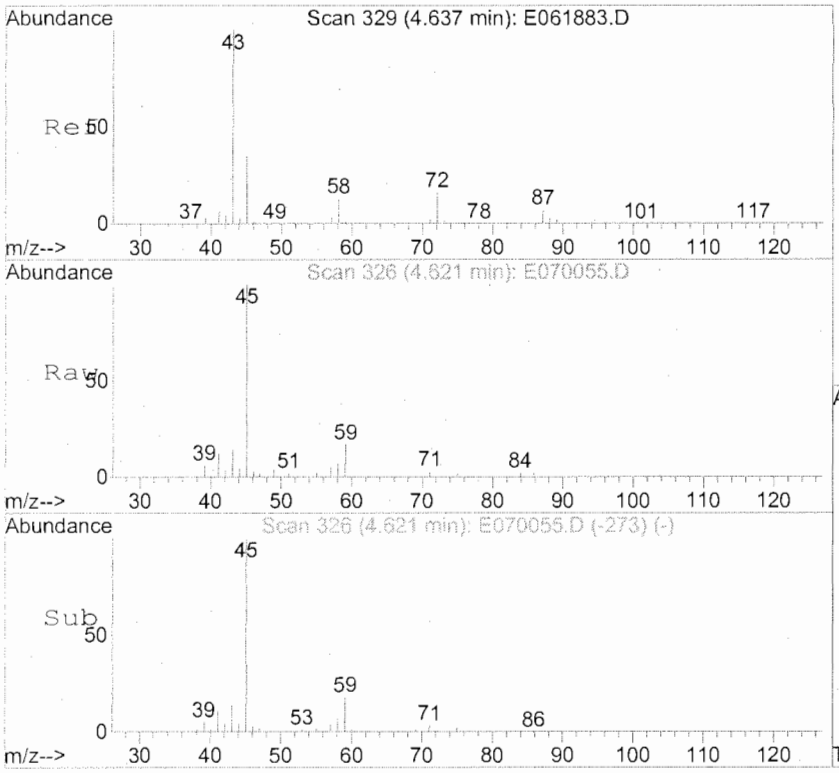


#3
N-Nitrosodimethylamine
Concen: 0.27 mg/L
RT: 3.26 min Scan# 72
Delta R.T. -0.11 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion: 42 Resp: 752

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

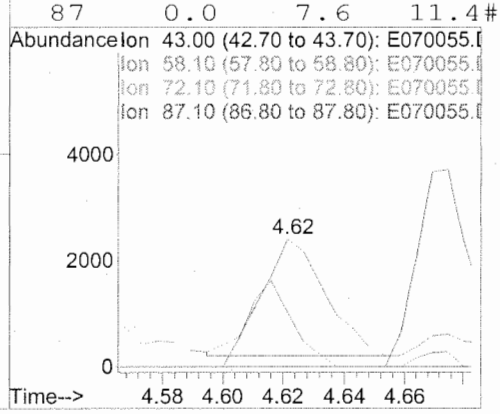


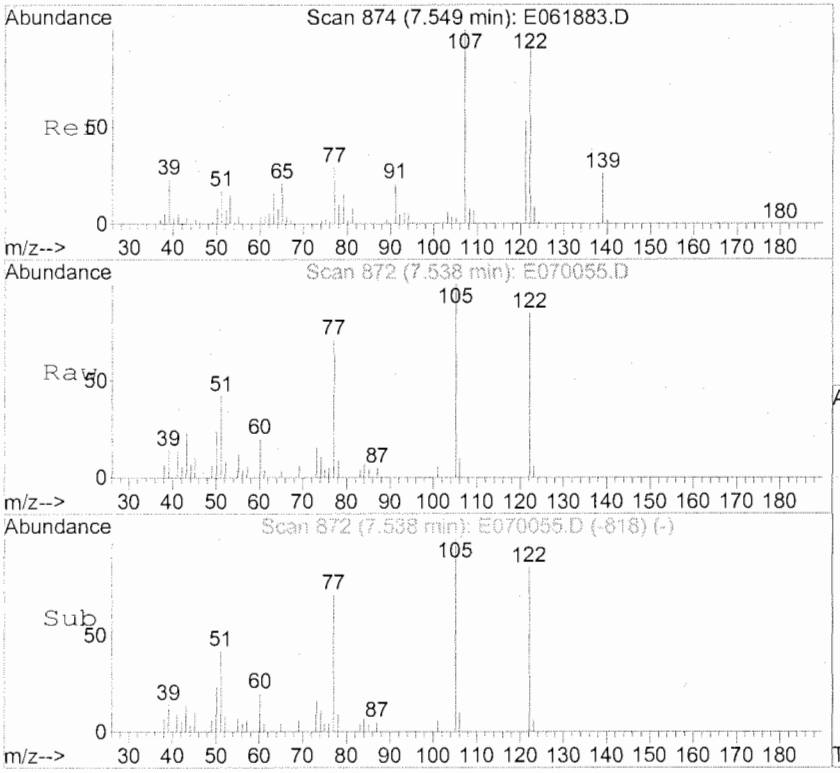


#5
PGMEA
Concen: 0.31 mg/L
RT: 4.62 min Scan# 326
Delta R.T. -0.02 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion: 43 Resp: 3212

Ion	Ratio	Lower	Upper
43	100		
58	51.5	9.7	14.5#
72	0.0	20.4	30.6#
87	0.0	7.6	11.4#

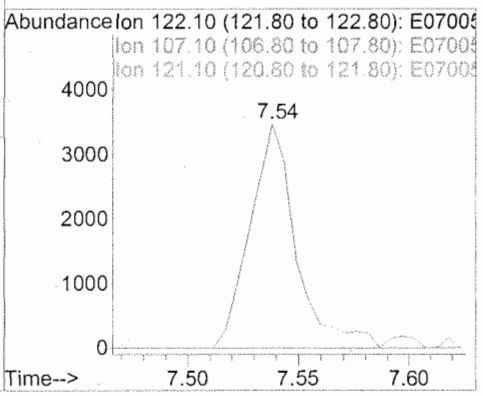


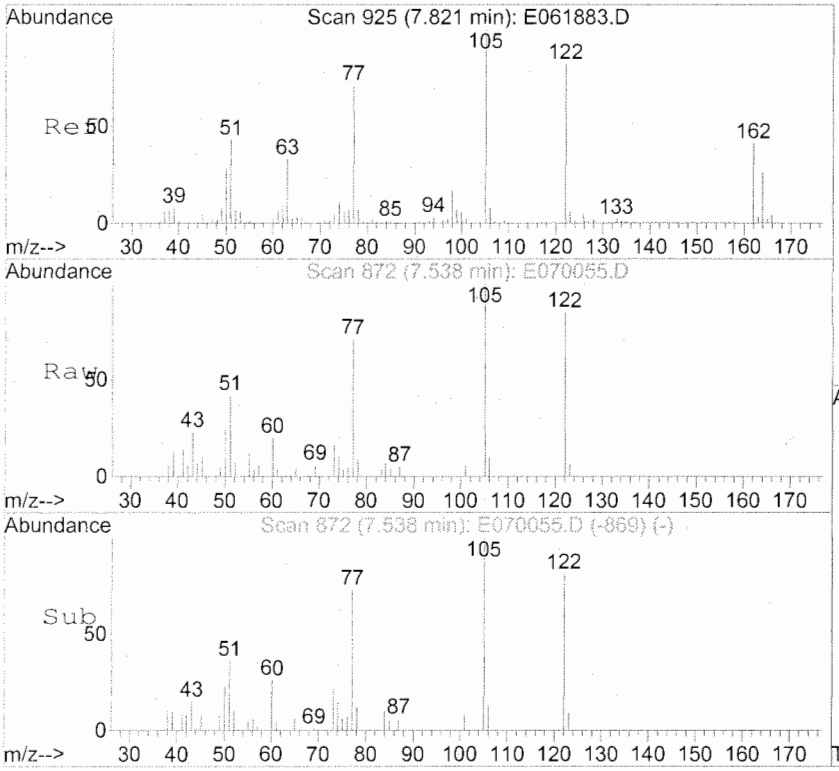


#27
2,4-Dimethylphenol
Concen: 1.06 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:122 Resp: 5002

Ion	Ratio	Lower	Upper
122	100		
107	1.0	104.4	156.6#
121	0.0	46.2	69.2#

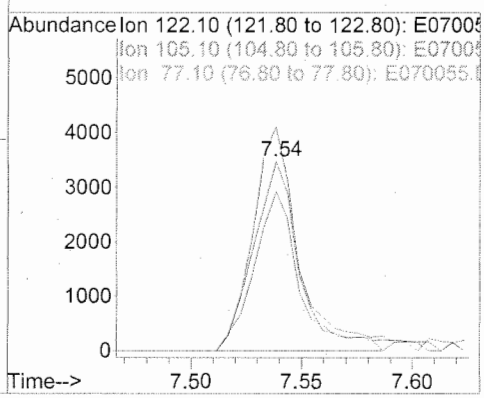


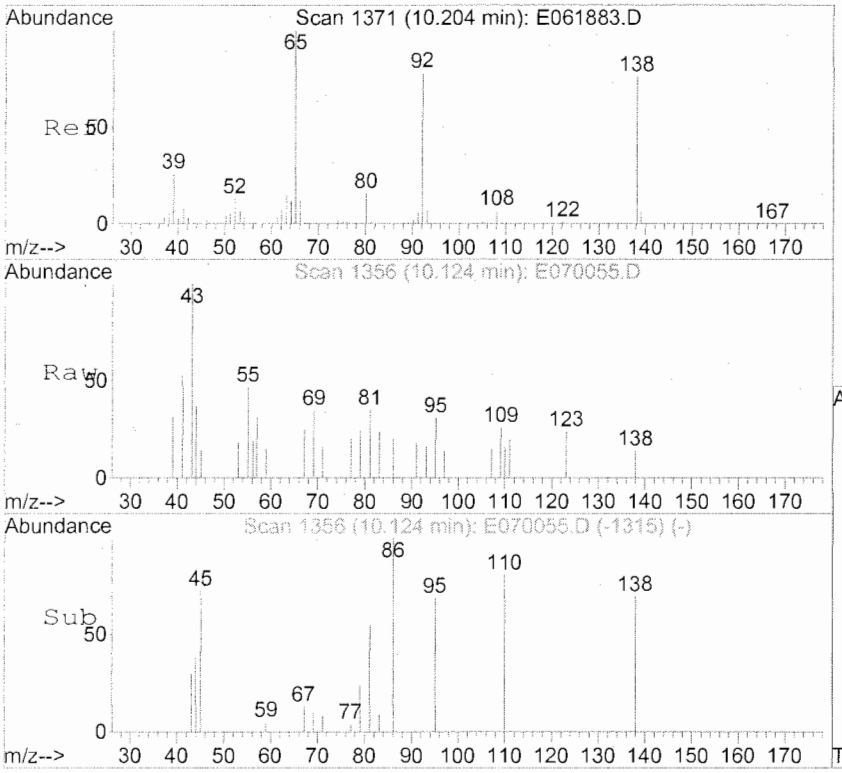


#28
Benzoic acid
Concen: 1.62 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.28 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:122 Resp: 5002

Ion	Ratio	Lower	Upper
122	100		
105	121.7	110.2	165.2
77	90.5	89.8	134.8

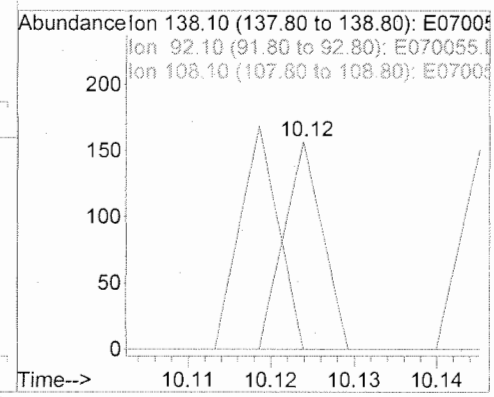


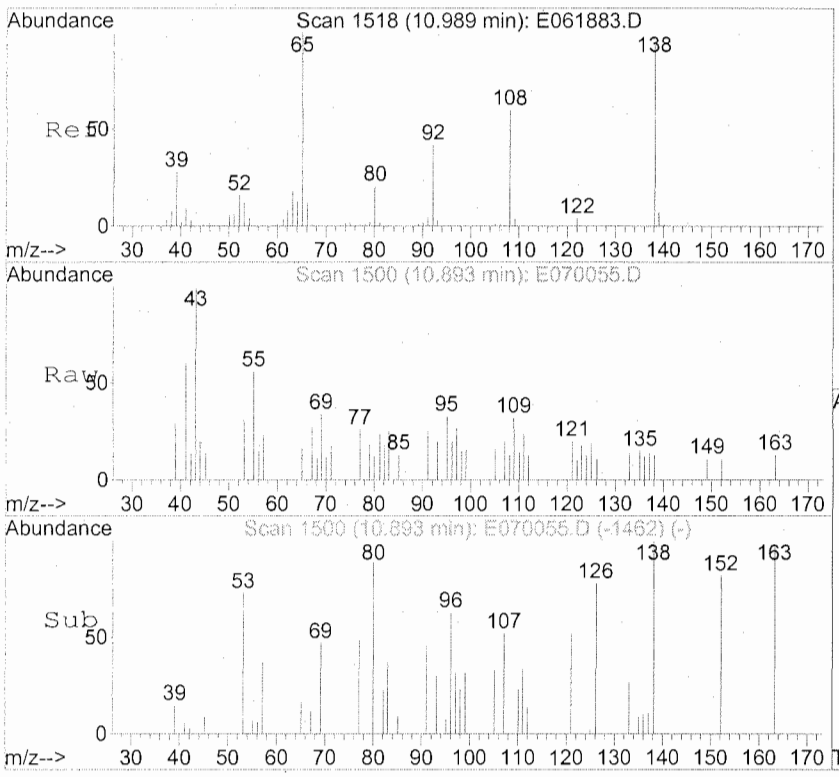


#47
3-Nitroaniline
Concen: 1.79 mg/L
RT: 10.12 min Scan# 1356
Delta R.T. -0.08 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:138 Resp: 50

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

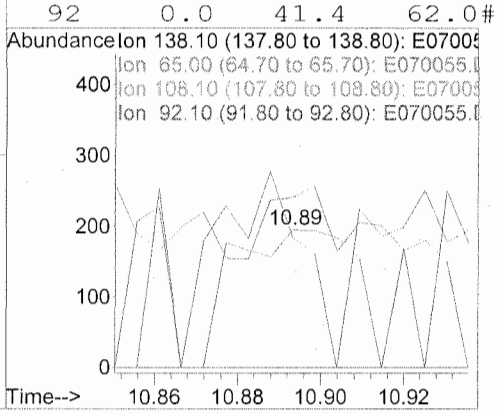


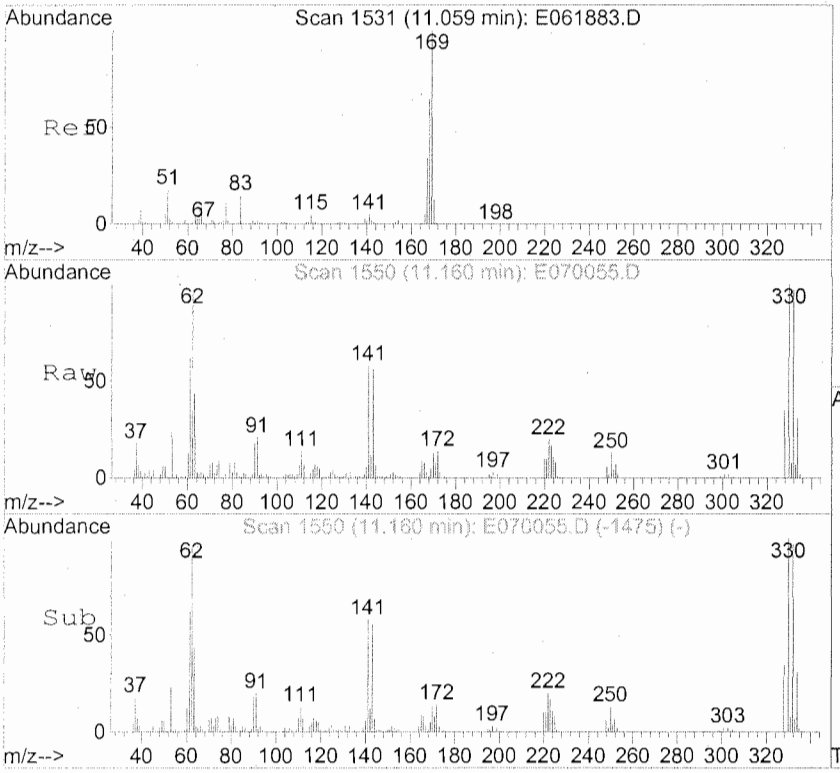


#56
4-Nitroaniline
Concen: 2.35 mg/L
RT: 10.89 min Scan# 1500
Delta R.T. -0.10 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:138 Resp: 394

Ion	Ratio	Lower	Upper
138	100		
65	146.7	86.4	129.6#
108	99.0	75.0	112.6
92	0.0	41.4	62.0#

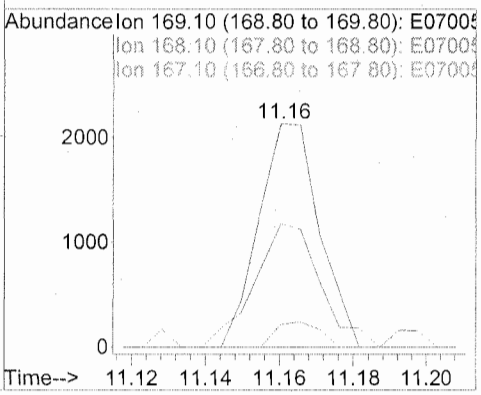


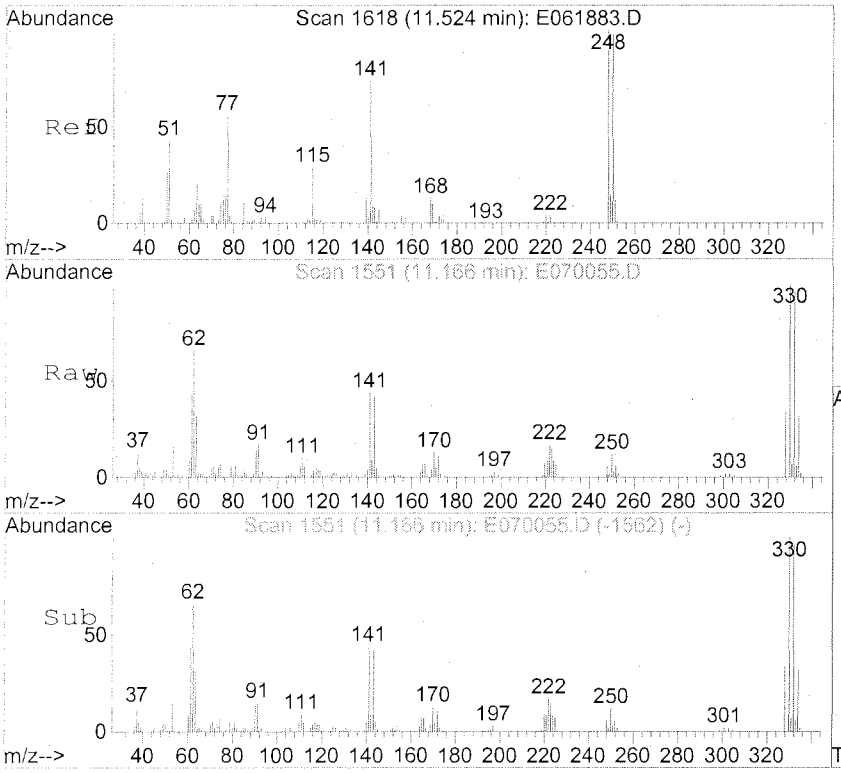


#59
N-Nitrosodiphenylamine
Concen: 0.33 mg/L
RT: 11.16 min Scan# 1550
Delta R.T. 0.10 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:169 Resp: 2434

Ion	Ratio	Lower	Upper
169	100		
168	8.3	50.8	76.2#
167	60.1	27.0	40.4#

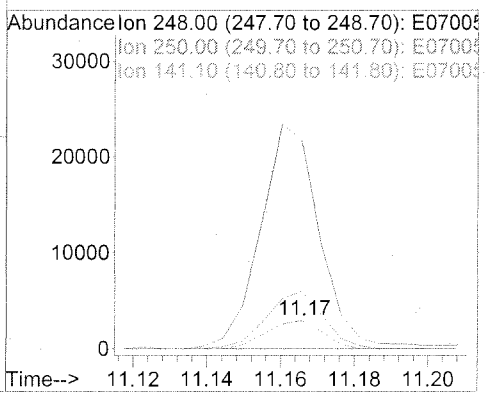


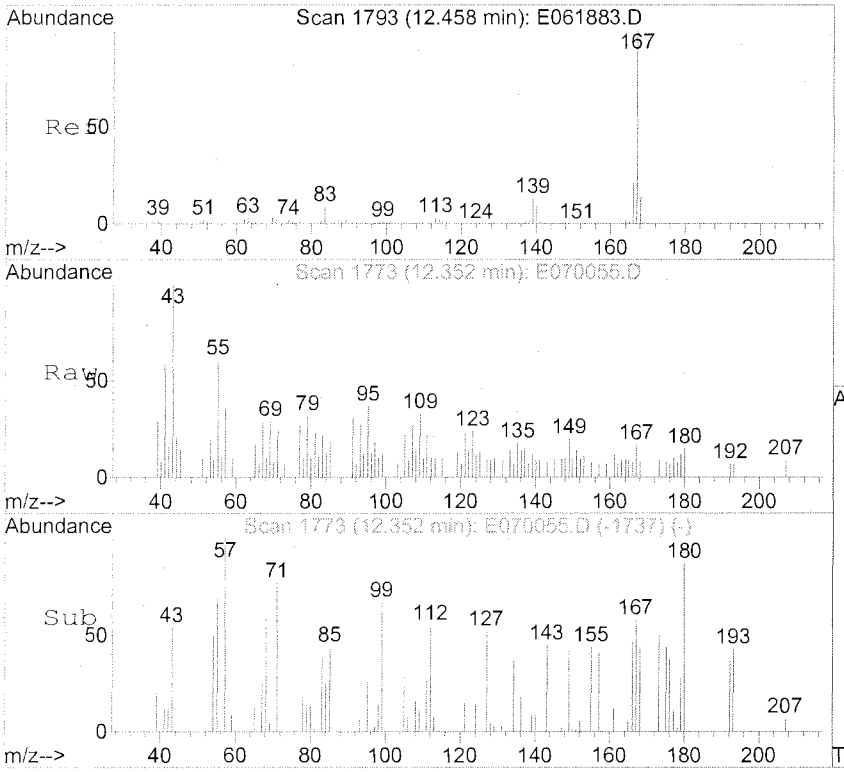


#62
4-Bromophenyl phenyl ether
Concen: 1.15 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:248 Resp: 3087

Ion	Ratio	Lower	Upper
248	100		
250	207.0	79.0	118.4#
141	861.8	64.3	96.5#

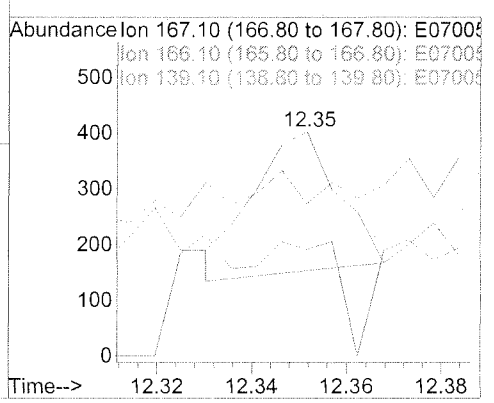


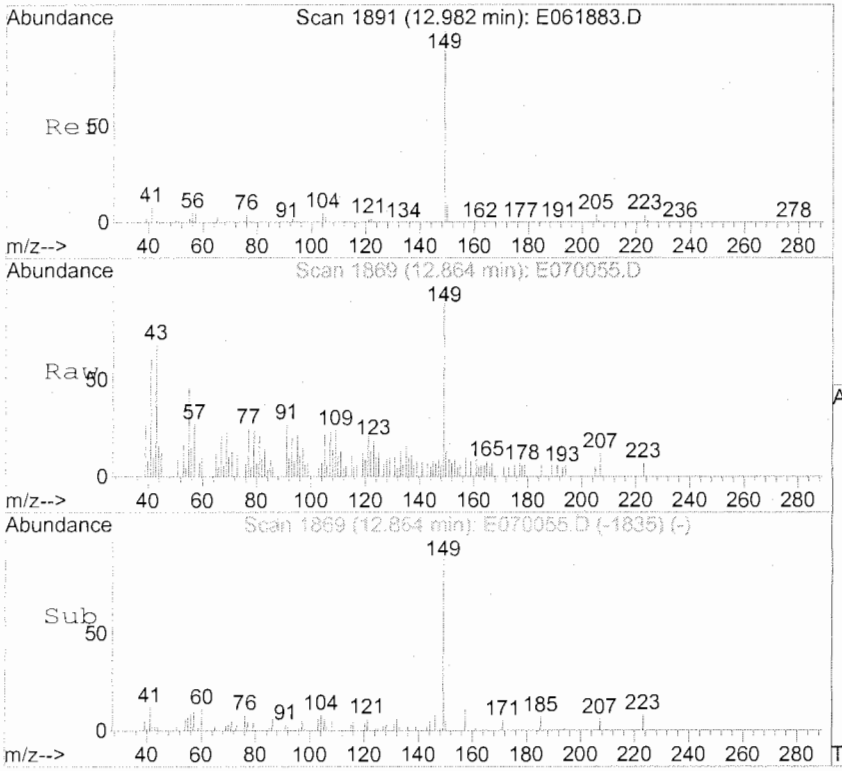


#67
Carbazole
Concen: Below Cal
RT: 12.35 min Scan# 1773
Delta R.T. -0.11 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:167 Resp: 315

Ion	Ratio	Lower	Upper
167	100		
166	61.3	17.2	25.8#
139	39.4	10.6	16.0#

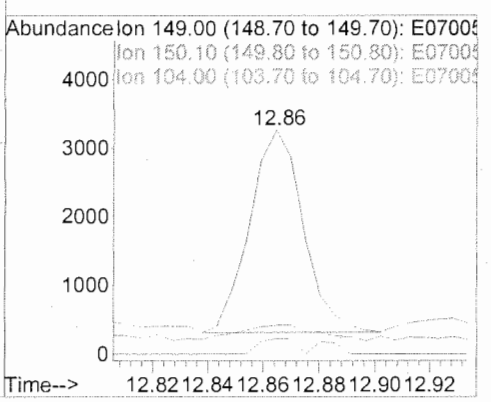


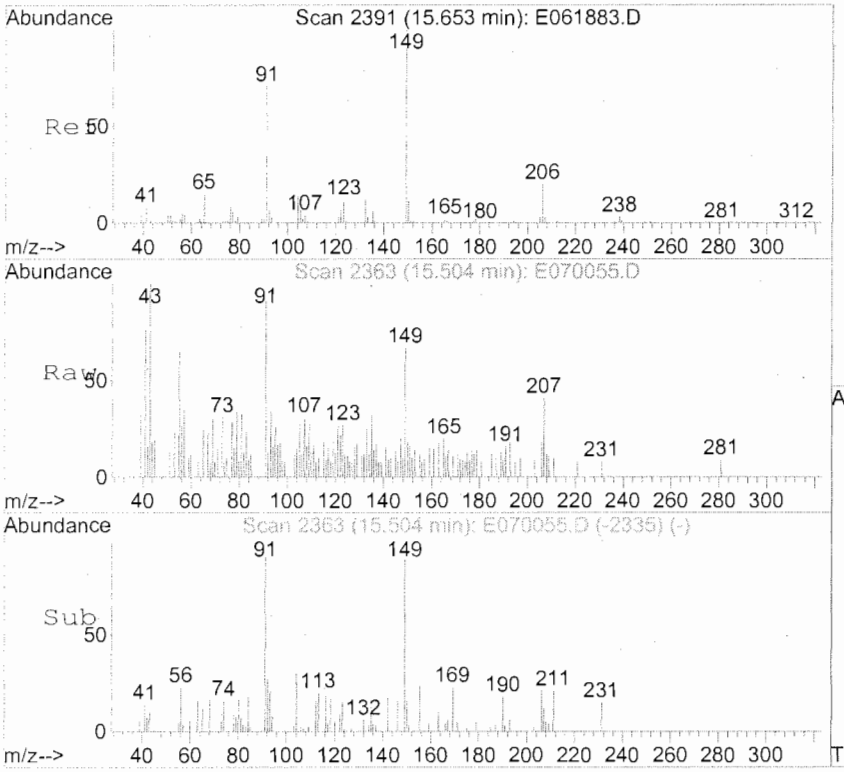


#68
Di-n-butylphthalate
Concen: 0.25 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:149 Resp: 3939

Ion	Ratio	Lower	Upper
149	100		
150	11.1	7.3	10.9#
104	5.1	4.6	7.0

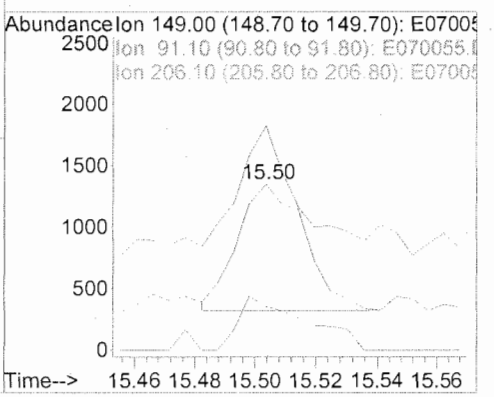


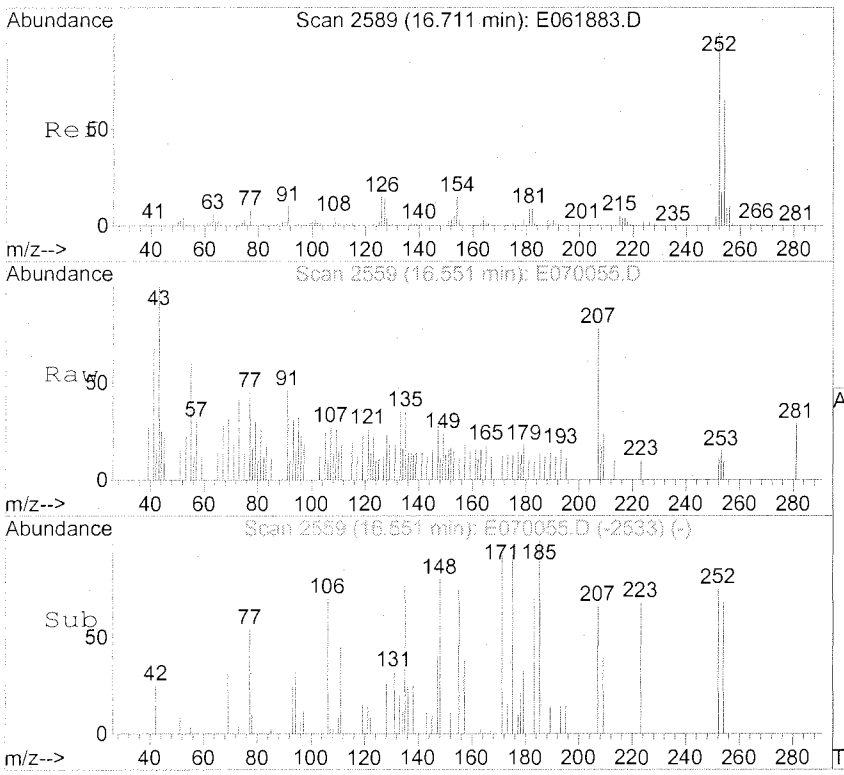


#74
Butylbenzylphthalate
Concen: 0.30 mg/L
RT: 15.50 min Scan# 2363
Delta R.T. -0.15 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:149 Resp: 1587

Ion	Ratio	Lower	Upper
149	100		
91	82.5	59.4	89.0
206	42.3	19.0	28.6#

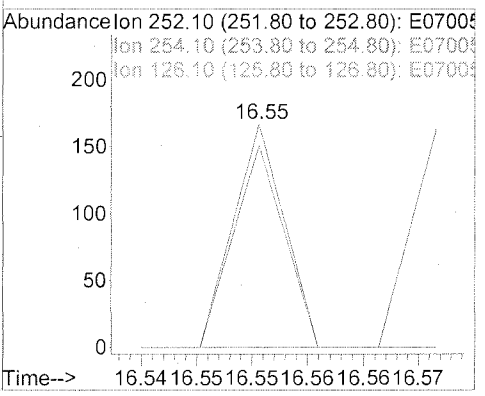


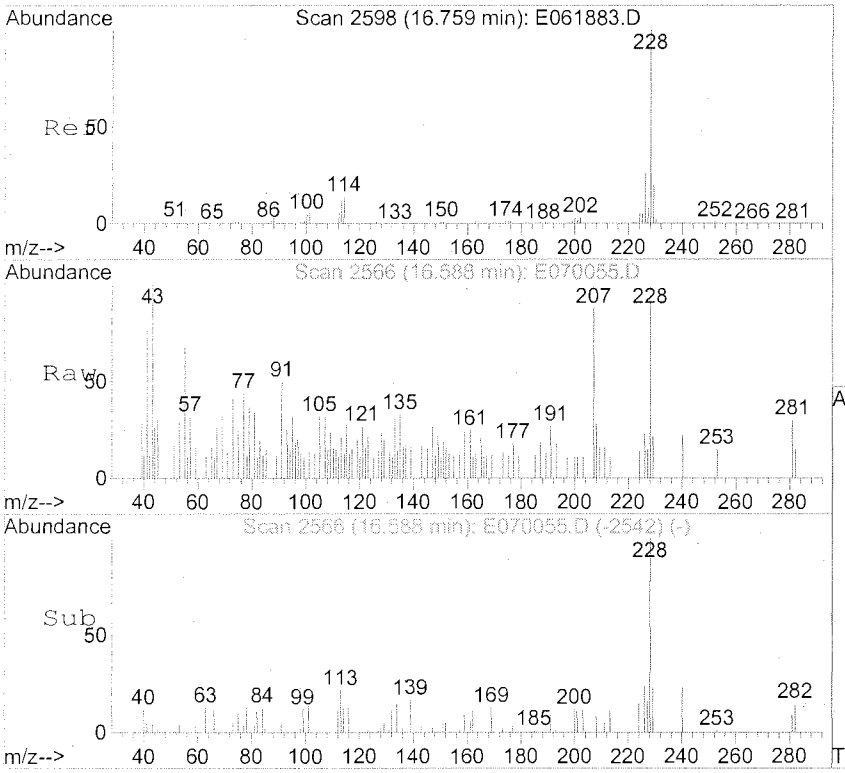


#75
3,3'-Dichlorobenzidine
Concen: 0.29 mg/L
RT: 16.55 min Scan# 2559
Delta R.T. -0.16 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:252 Resp: 54

Ion	Ratio	Lower	Upper
252	100		
254	88.9	52.6	79.0#
126	0.0	8.2	12.2#

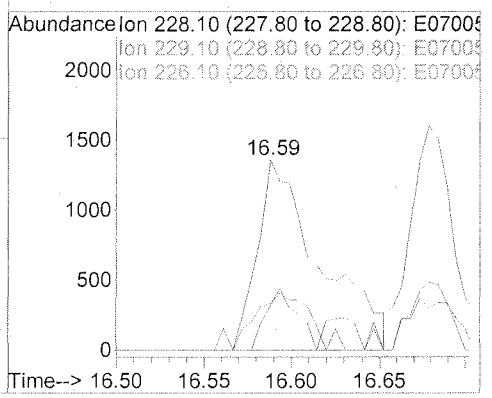


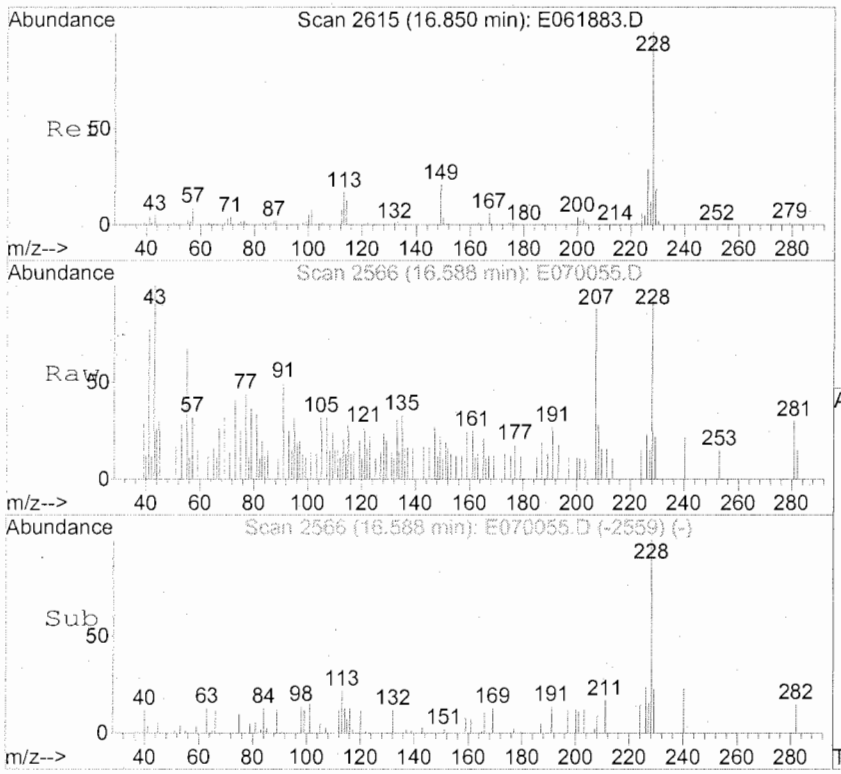


#76
Benz(a)anthracene
Concen: 0.43 mg/L
RT: 16.59 min Scan# 2566
Delta R.T. -0.17 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:228 Resp: 3406

Ion	Ratio	Lower	Upper
228	100		
229	16.0	15.8	23.8
226	25.9	20.7	31.1

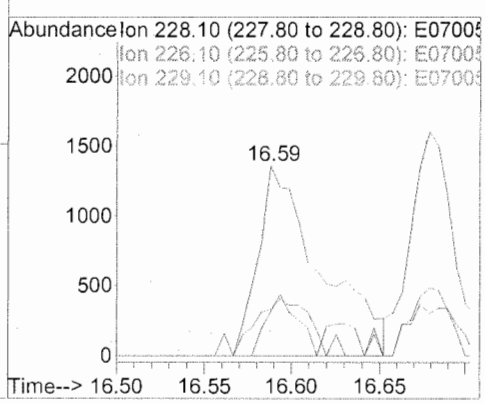


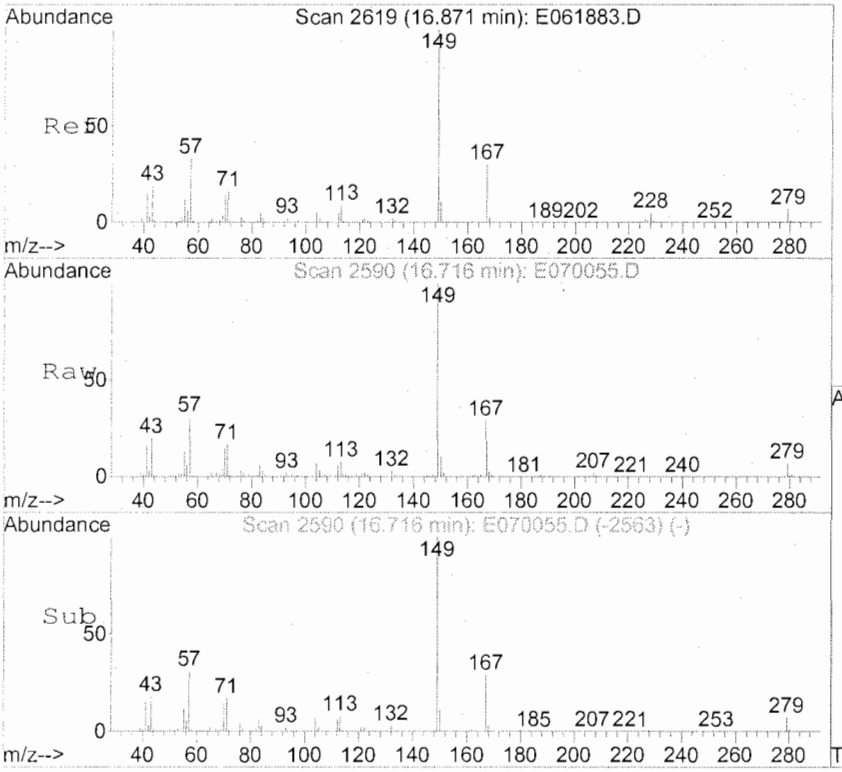


#77
Chrysene
Concen: 0.46 mg/L
RT: 16.59 min Scan# 2566
Delta R.T. -0.26 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:228 Resp: 3406

Ion	Ratio	Lower	Upper
228	100		
226	25.9	22.8	34.2
229	16.0	15.7	23.5

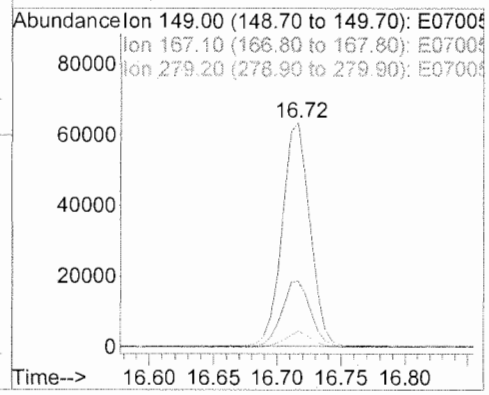


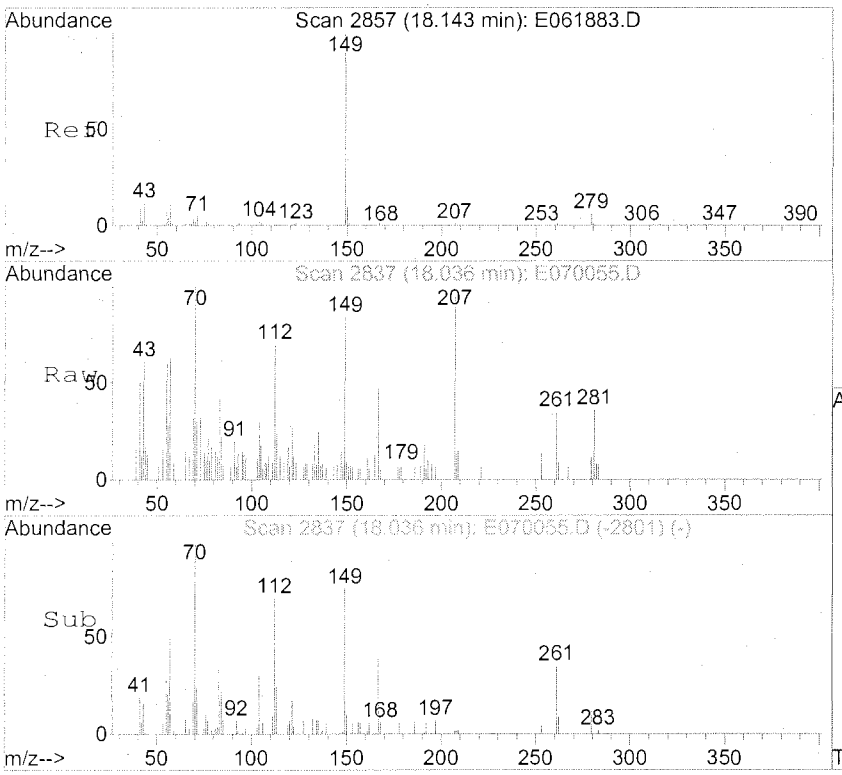


#78
Bis(2-ethylhexyl)phthalate
Concen: 14.11 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:149 Resp: 96316

Ion	Ratio	Lower	Upper
149	100		
167	31.0	25.0	37.6
279	6.6	6.2	9.2

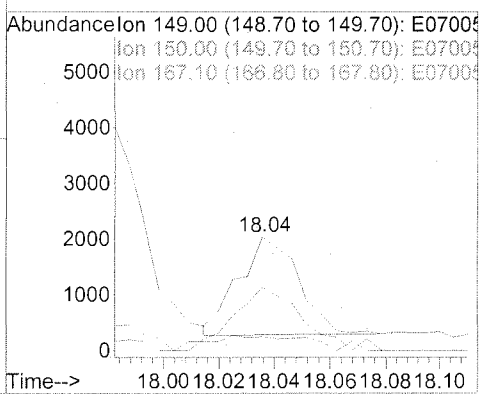


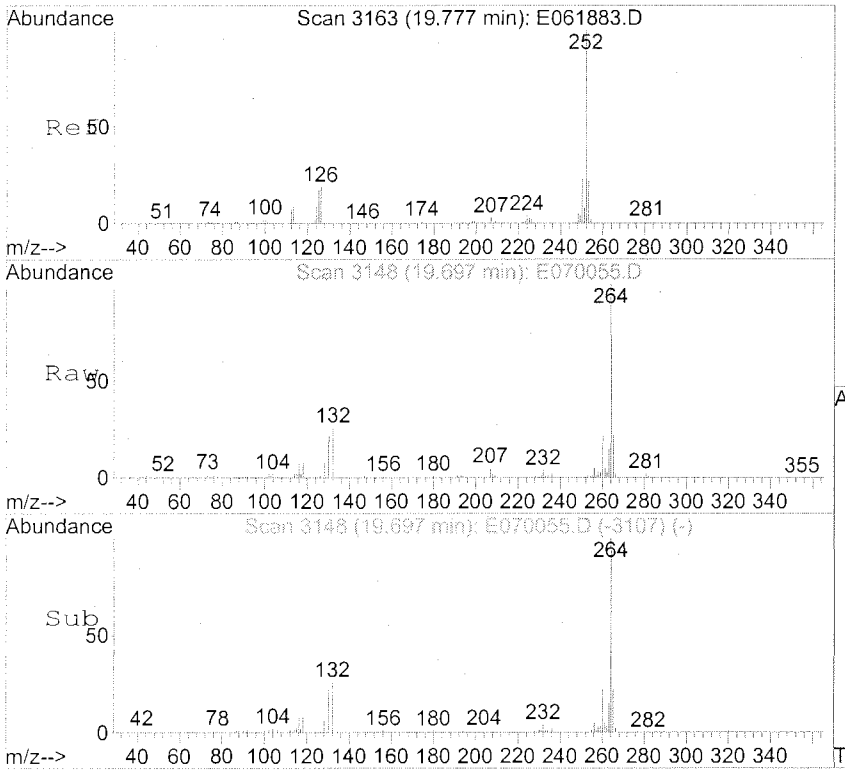


#81
Di-n-octylphthalate
Concen: 0.26 mg/L
RT: 18.04 min Scan# 2837
Delta R.T. -0.11 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:149 Resp: 2644

Ion	Ratio	Lower	Upper
149	100		
150	26.9	7.8	11.8#
167	74.2	1.4	2.0#

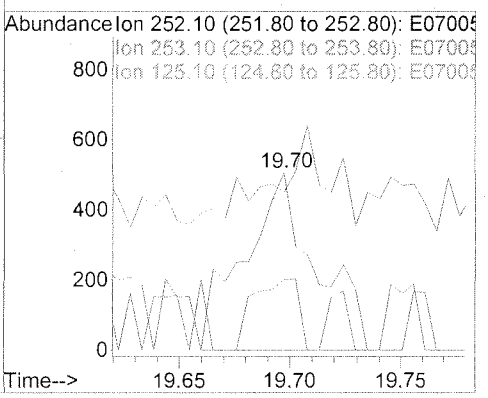


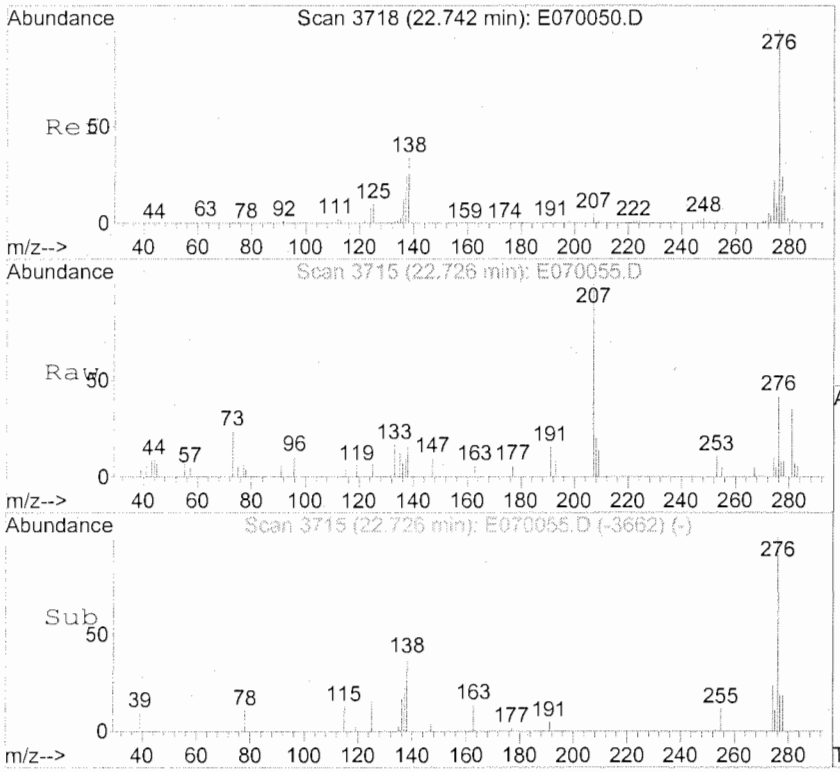


#84
Benzo(a)pyrene
Concen: 0.25 mg/L
RT: 19.70 min Scan# 3148
Delta R.T. -0.08 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:252 Resp: 1131

Ion	Ratio	Lower	Upper
252	100		
253	41.9	18.2	27.2#
125	25.4	7.4	11.0#

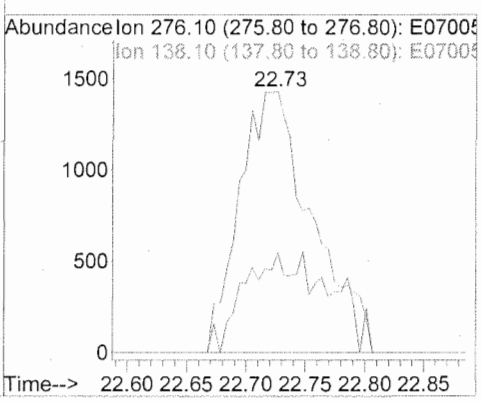


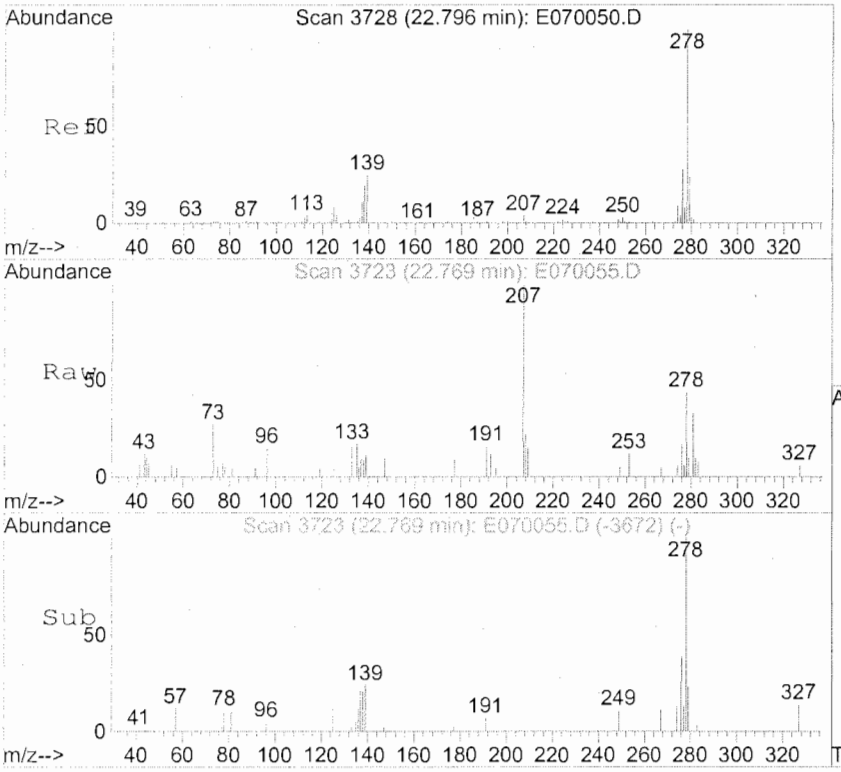


#85
Indeno(1,2,3-c,d)pyrene
Concen: 1.65 mg/L
RT: 22.73 min Scan# 3715
Delta R.T. -0.02 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:276 Resp: 6098

Ion	Ratio	Lower	Upper
276	100		
138	23.5	25.4	38.0#

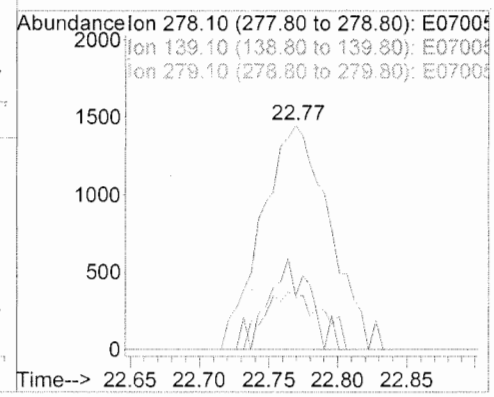


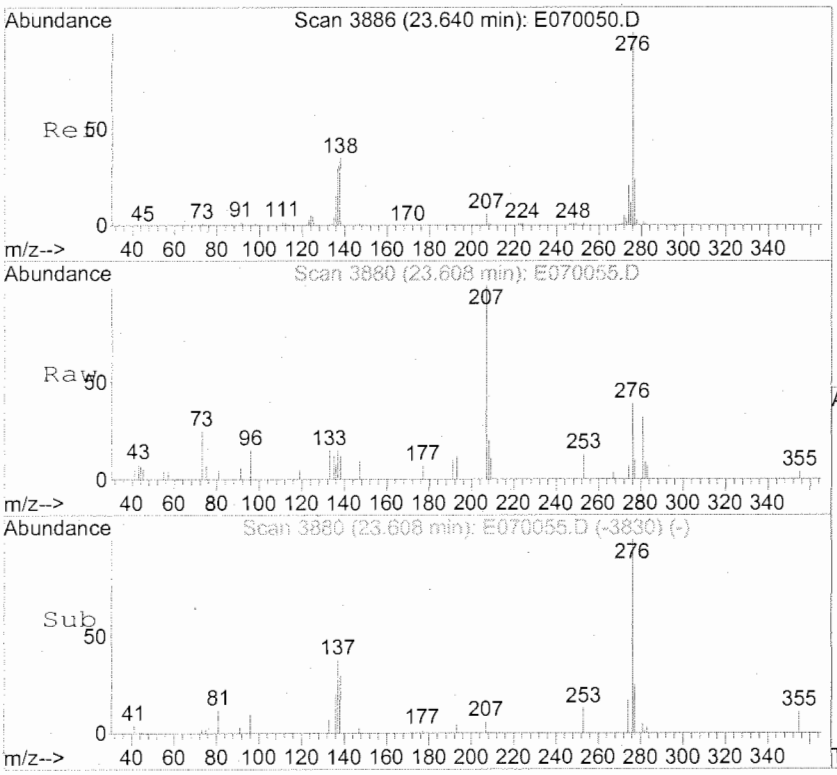


#86
Dibenz(a,h)anthracene
Concen: 1.56 mg/L
RT: 22.77 min Scan# 3723
Delta R.T. -0.03 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:278 Resp: 4965

Ion	Ratio	Lower	Upper
278	100		
139	24.9	18.0	27.0
279	22.1	19.4	29.0

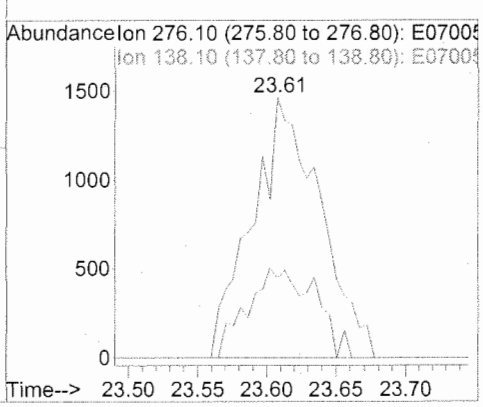




#87
Benzo(g,h,i)perylene
Concen: 1.63 mg/L
RT: 23.61 min Scan# 3880
Delta R.T. -0.03 min
Lab File: E070055.D
Acq: 18 Jan 2007 4:22 pm

Tgt Ion:276 Resp: 4985

Ion	Ratio	Lower	Upper
276	100		
138	24.6	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/09/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700131	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76109	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070119\E070070.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070072.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 12:57	**Quant Date:**	01/19/2007 13:23	**Vial:**	3
Run Type:	SMPL			**Dilution:**	20.0
Lab ID:	D0700056-001			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	187262	40.00	OK
2	Naphthalene-d8	7.93	-0.01?	136	740449	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	403981	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	602186	40.00	OK
5	Chrysene-d12	16.64	0.00?	240	290275	40.00	OK
6	Perylene-d12	19.70	0.00?	264	168439	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.66	-0.01	0.00	112	12087	2.03	81	23-115	OK	NR
1	Phenol-d5	5.81	-0.01	0.00	99	16161	2.09	84	23-121	OK	NR
2	Nitrobenzene-d5	7.03	0.00	0.00	82	14057	2.25	90	42-122	OK	NR
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	31794	2.50	100	47-110	OK	NR
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	2182	1.51	60	31-112	OK	NR
5	Terphenyl-d14	14.55	0.00	0.00	244	20814	2.57	103	37-130	OK	NR

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.96	0.01	0.00	88	158343	57.74	1100	D	
1	N-Nitrosodimethylamine				42	0		9.6	U	NR
1	Pyridine				79	0		6.6	U	NR
1	Phenol				94	0		2.2	U	NR
1	Aniline				93	0		6.8	U	NR
1	Bis(2-chloroethyl) Ether				93	0		4.8	U	NR
1	2-Chlorophenol				128	0		4.8	U	NR
1	1,3-Dichlorobenzene				146	0		4.0	U	NR
1	1,4-Dichlorobenzene				146	0		4.8	U	NR
1	Benzyl alcohol				108	0		4.4	U	NR

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070072.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 12:57	**Quant Date:**	01/19/2007 13:23	**Vial:**	3
Run Type:	SMPL			**Dilution:**	20.0
Lab ID:	D0700056-001			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		3.4	U	NR
1	2-Methylphenol				108	0		6.4	U	NR
1	Bis(2-Chloroisopropyl)ether				45	0		4.8	U	NR
1	4-Methylphenol				107	0		5.6	U	NR
1	N-Nitrosodi-n-propylamine				70	0		5.6	U	NR
1	Hexachloroethane				117	0		50	U	NR
2	Nitrobenzene				77	0		5.2	U	NR
2	Isophorone				82	0		6.0	U	NR
2	2-Nitrophenol				139	0		5.2	U	NR
2	2,4-Dimethylphenol				122	0		17	U	NR
2	Benzoic acid				122	0		400	U	NR
2	bis(2-Chloroethoxy)methane				93	0		6.4	U	NR
2	2,4-Dichlorophenol				162	0		4.6	U	NR
2	1,2,4-Trichlorobenzene				180	0		4.0	U	NR
2	Naphthalene				128	0		4.2	U	NR
2	4-Chloroaniline				127	0		7.2	U	NR
2	Hexachlorobutadiene				225	0		4.4	U	NR
2	4-Chloro-3-methylphenol				107	0		6.4	U	NR
2	2-Methylnaphthalene				142	0		3.6	U	NR
3	Hexachlorocyclopentadiene				237	0		36	U	NR
3	2,4,6-Trichlorophenol				196	0		5.4	U	NR
3	2,4,5-Trichlorophenol				196	0		5.6	U	NR
3	2-Chloronaphthalene				162	0		4.4	U	NR
3	2-Nitroaniline				65	0		5.4	U	NR
3	Dimethyl Phthalate				163	0		5.2	U	NR
3	Acenaphthylene				152	0		4.6	U	NR
3	2,6-Dinitrotoluene				165	0		6.0	U	NR
3	3-Nitroaniline				138	0		5.8	U	NR
3	Acenaphthene				154	0		3.0	U	NR
3	2,4-Dinitrophenol				184	0		200	U	NR
3	4-Nitrophenol				109	0		400	U	NR
3	Dibenzofuran				168	0		4.4	U	NR
3	2,4-Dinitrotoluene				165	0		6.0	U	NR
3	Fluorene				166	0		4.4	U	NR
3	Diethyl Phthalate				149	0		5.6	U	NR
3	4-Chlorophenyl Phenyl Ether				204	0		4.2	U	NR
3	4-Nitroaniline				138	0		7.2	U	NR
4	2-Methyl-4,6-dinitrophenol				198	0		4.0	U	NR
4	N-Nitrosodiphenylamine				169	0		4.6	U	NR
4	4-Bromophenyl Phenyl Ether				248	0		3.6	U	NR
4	Hexachlorobenzene				284	0		4.2	U	NR
4	Pentachlorophenol				266	0		13	U	NR
4	Phenanthrene				178	0		4.4	U	NR

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070119\E070072.D			**Instrument:**	MSE
Acqu Date:	01/19/2007 12:57	**Quant Date:**	01/19/2007 13:23	**Vial:**	3
Run Type:	SMPL			**Dilution:**	20.0
Lab ID:	D0700056-001			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		4.2	U	NR
4	Di-n-butyl Phthalate				149	0		5.0	U	NR
4	Fluoranthene				202	0		4.2	U	NR
5	Pyrene				202	0		6.6	U	NR
5	Butyl Benzyl Phthalate				149	0		9.6	U	NR
5	3,3'-Dichlorobenzidine				252	0d		17	U	NR
5	Benz(a)anthracene				228	0		4.2	U	NR
5	Chrysene				228	0		4.4	U	NR
5	Bis(2-ethylhexyl) Phthalate	16.72		0.00	149	5637	0.7700	15	JD	NR
6	Di-n-octyl Phthalate				149	0		6.6	U	NR
6	Benzo(b)fluoranthene				252	0d		8.4	U	NR
6	Benzo(k)fluoranthene				252	0d		6.4	U	NR
6	Benzo(a)pyrene				252	0		11	U	NR
6	Indeno(1,2,3-cd)pyrene				276	0		13	U	NR
6	Dibenz(a,h)anthracene				278	0		13	U	NR
6	Benzo(g,h,i)perylene				276	0d		15	U	NR

Prep Amount: 1050 ml **Dilution:** 20.0
Prep Final Vol: 1.0 ml **Unit Factor:** 1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-clution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070072.D Vial: 3
Acq On : 19 Jan 2007 12:57 pm Operator: GJ
Sample : D0700056-001 1/20 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 13:22:55 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	187262	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	740449	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	403981	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	602186	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	290275	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	168439	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.66	112	12087	2.03	mg/L	-0.06
Spiked Amount 50.000			Recovery =	4.06%		
7) Phenol-d5	5.81	99	16161	2.09	mg/L	-0.06
Spiked Amount 50.000			Recovery =	4.18%		
23) Nitrobenzene-d5	7.03	82	14057	2.25	mg/L	-0.08
Spiked Amount 50.000			Recovery =	4.50%		
41) 2-Fluorobiphenyl	9.30	172	31794	2.50	mg/L	-0.09
Spiked Amount 50.000			Recovery =	5.00%		
61) 2,4,6-Tribromophenol	11.17	330	2182	1.51	mg/L	-0.10
Spiked Amount 50.000			Recovery =	3.02%		
73) Terphenyl-d14	14.55	244	20814	2.57	mg/L	-0.14
Spiked Amount 50.000			Recovery =	5.14%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	158343	57.74	mg/L #	82
78) Bis(2-ethylhexyl)phthalate	16.72	149	5637	0.77	mg/L #	95

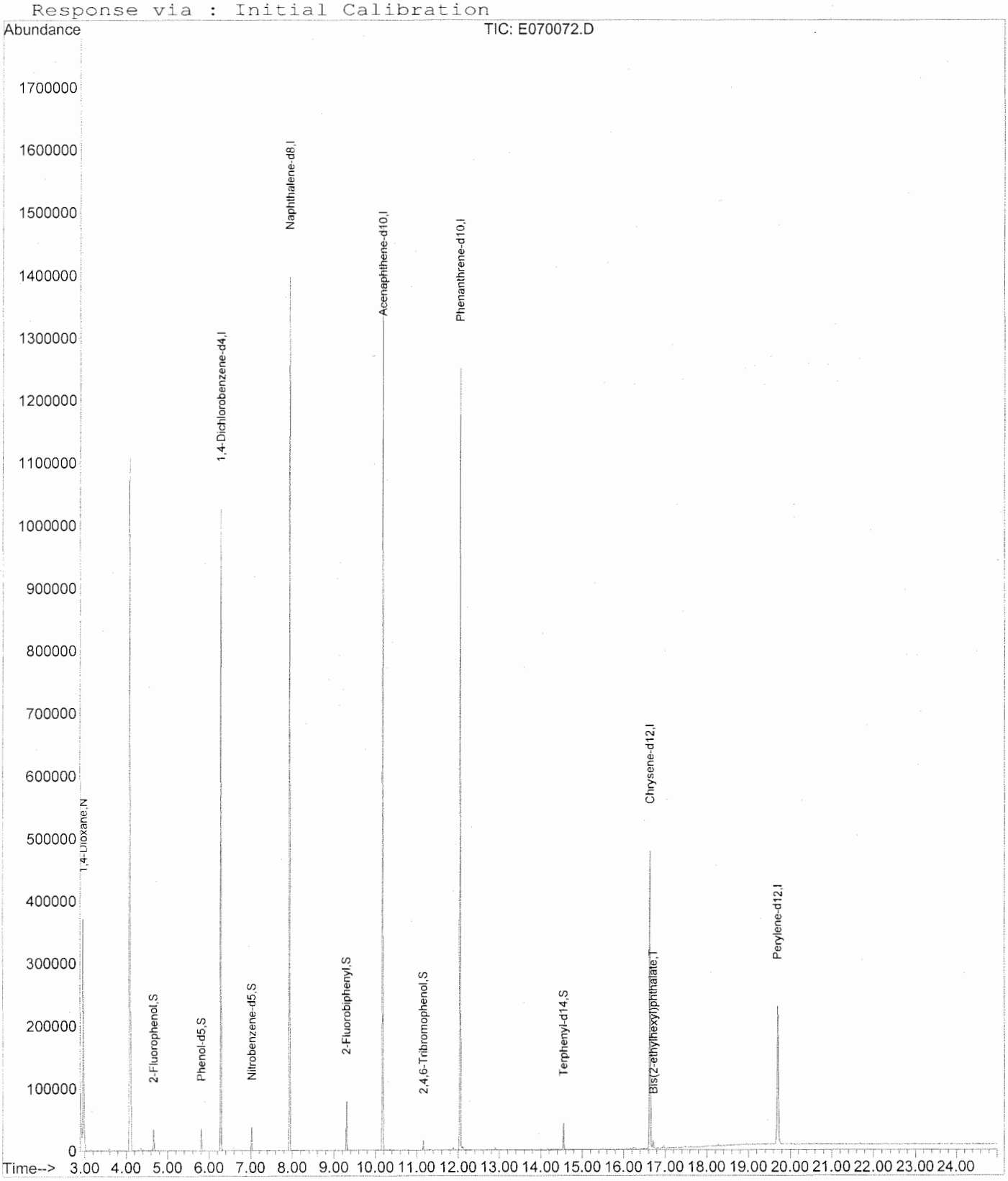
1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070072.D Vial: 3
Acq On : 19 Jan 2007 12:57 pm Operator: GJ
Sample : D0700056-001 1/20 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 13:23 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070072.D Vial: 3
Acq On : 19 Jan 2007 12:57 pm Operator: GJ
Sample : D0700056-001 1/20 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 13:22:55 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

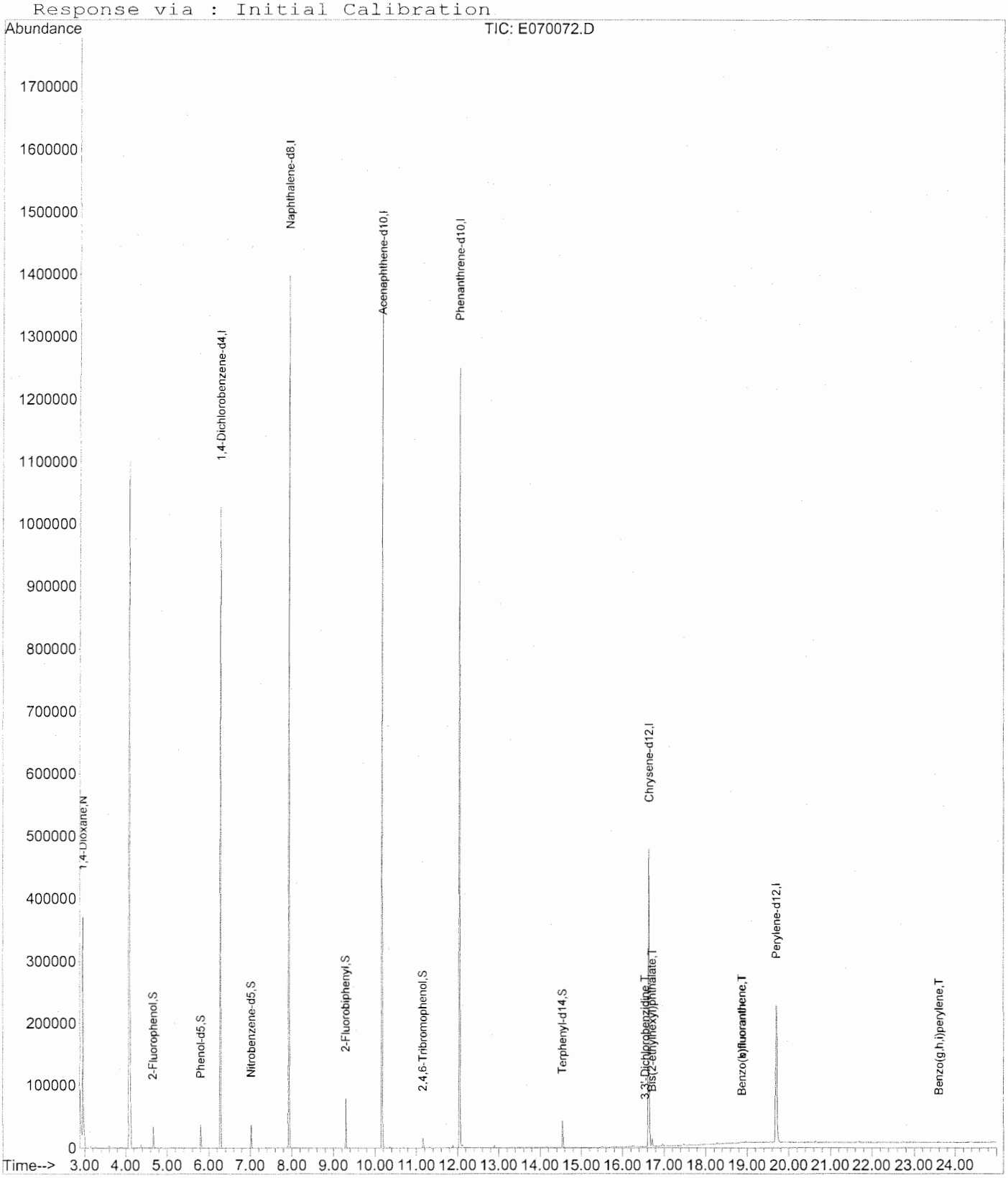
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	187262	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	740449	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	403981	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	602186	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	290275	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	168439	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.66	112	12087	2.03	mg/L	-0.06
Spiked Amount 50.000			Recovery =	4.06%		
7) Phenol-d5	5.81	99	16161	2.09	mg/L	-0.06
Spiked Amount 50.000			Recovery =	4.18%		
23) Nitrobenzene-d5	7.03	82	14057	2.25	mg/L	-0.08
Spiked Amount 50.000			Recovery =	4.50%		
41) 2-Fluorobiphenyl	9.30	172	31794	2.50	mg/L	-0.09
Spiked Amount 50.000			Recovery =	5.00%		
61) 2,4,6-Tribromophenol	11.17	330	2182	1.51	mg/L	-0.10
Spiked Amount 50.000			Recovery =	3.02%		
73) Terphenyl-d14	14.55	244	20814	2.57	mg/L	-0.14
Spiked Amount 50.000			Recovery =	5.14%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	158343	57.74	mg/L #	82
75) 3,3'-Dichlorobenzidine	16.55	252	107	0.32	mg/L #	1
78) Bis(2-ethylhexyl)phthalate	16.72	149	5637	0.77	mg/L #	95
82) Benzo(b)fluoranthene	18.87	252	1364	0.22	mg/L #	84
83) Benzo(k)fluoranthene	18.87	252	1364	0.23	mg/L #	85
87) Benzo(g,h,i)perylene	23.61	276	861	0.27	mg/L #	52

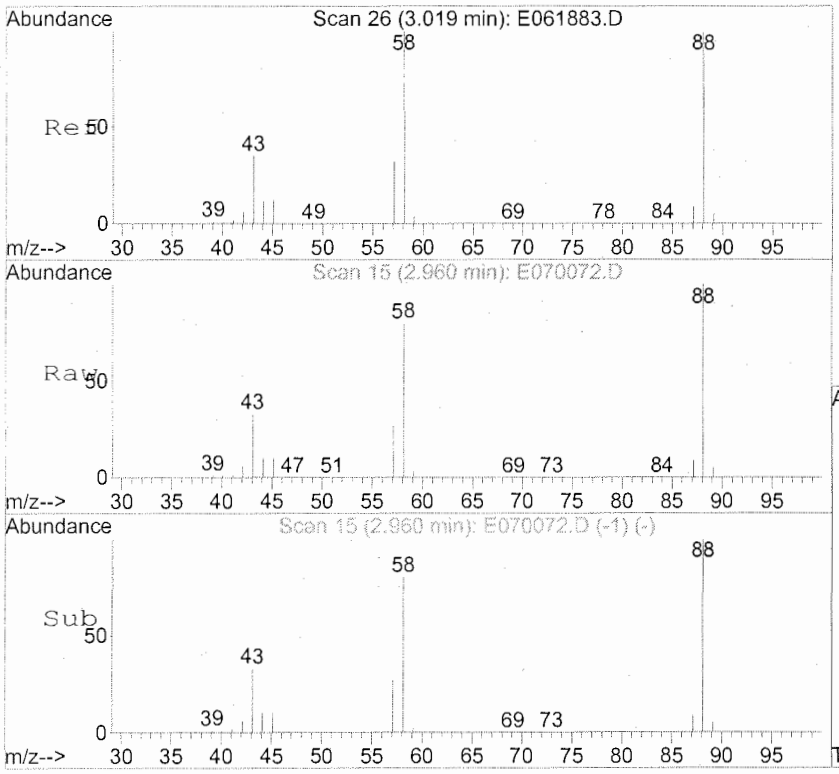
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070119\E070072.D Vial: 3
Acq On : 19 Jan 2007 12:57 pm Operator: GJ
Sample : D0700056-001 1/20 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 13:22 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

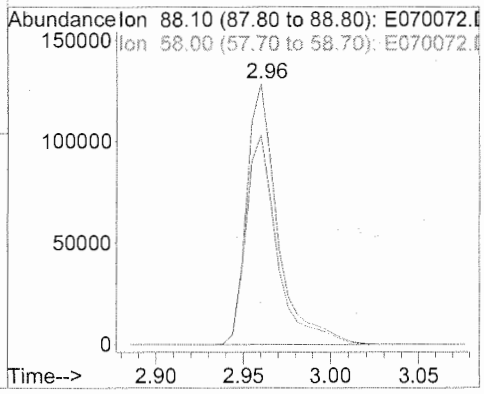


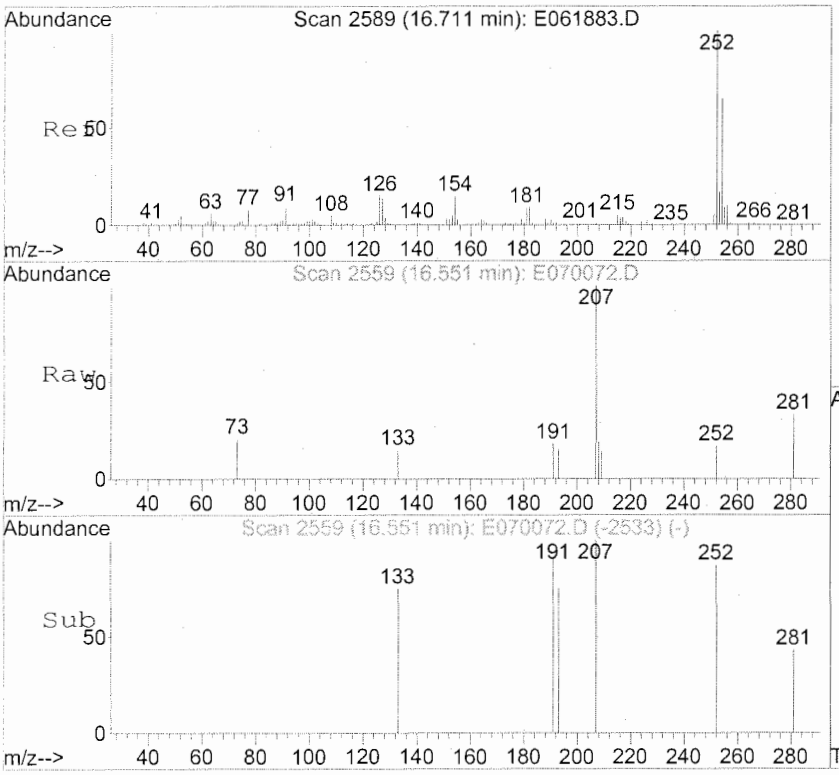


#2
1,4-Dioxane
Concen: 57.74 mg/L
RT: 2.96 min Scan# 15
Delta R.T. -0.06 min
Lab File: E070072.D
Acq: 19 Jan 2007 12:57 pm

Tgt Ion: 88 Resp: 158343

Ion	Ratio	Lower	Upper
88	100		
58	81.2	53.5	80.3#

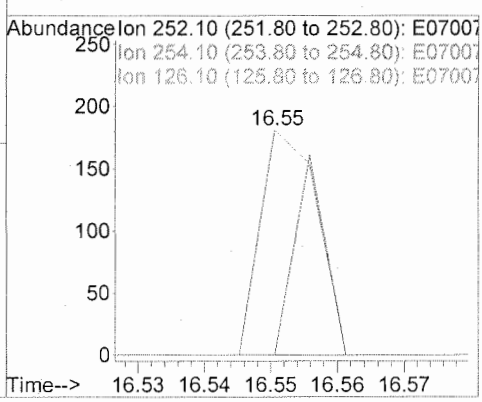


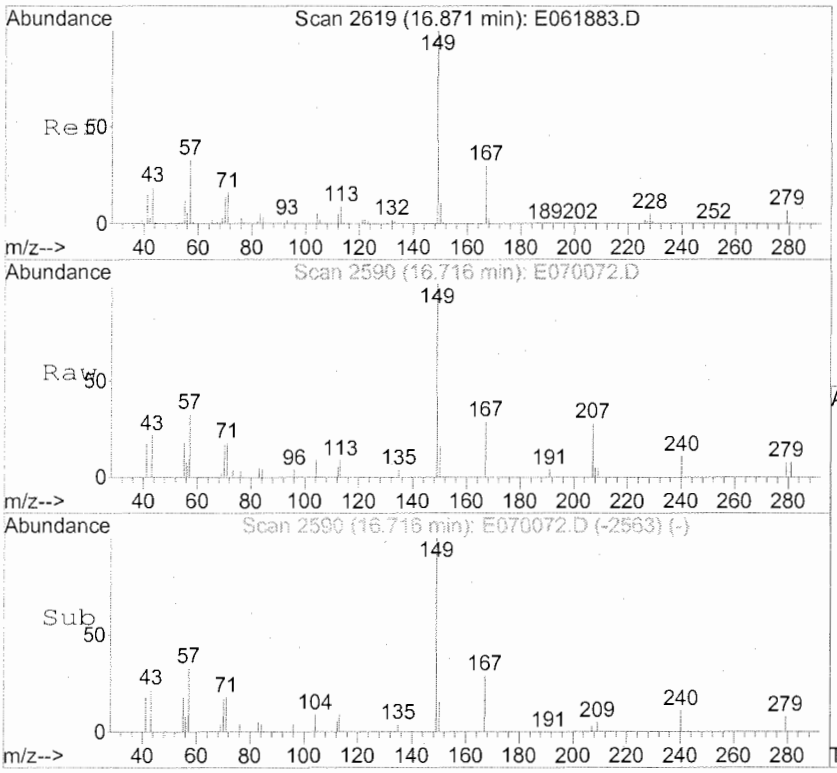


#75
3,3'-Dichlorobenzidine
Concen: 0.32 mg/L
RT: 16.55 min Scan# 2559
Delta R.T. -0.16 min
Lab File: E070072.D
Acq: 19 Jan 2007 12:57 pm

Tgt Ion:252 Resp: 107

Ion	Ratio	Lower	Upper
252	100		
254	48.6	52.6	79.0#
126	665.4	8.2	12.2#

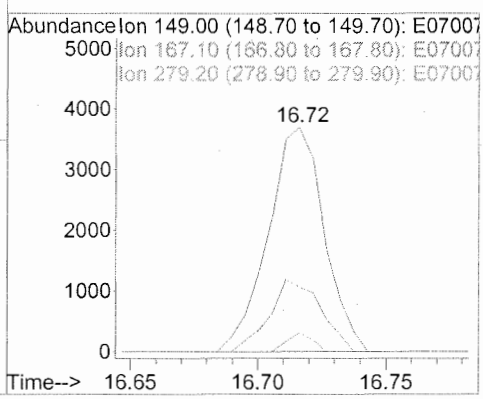


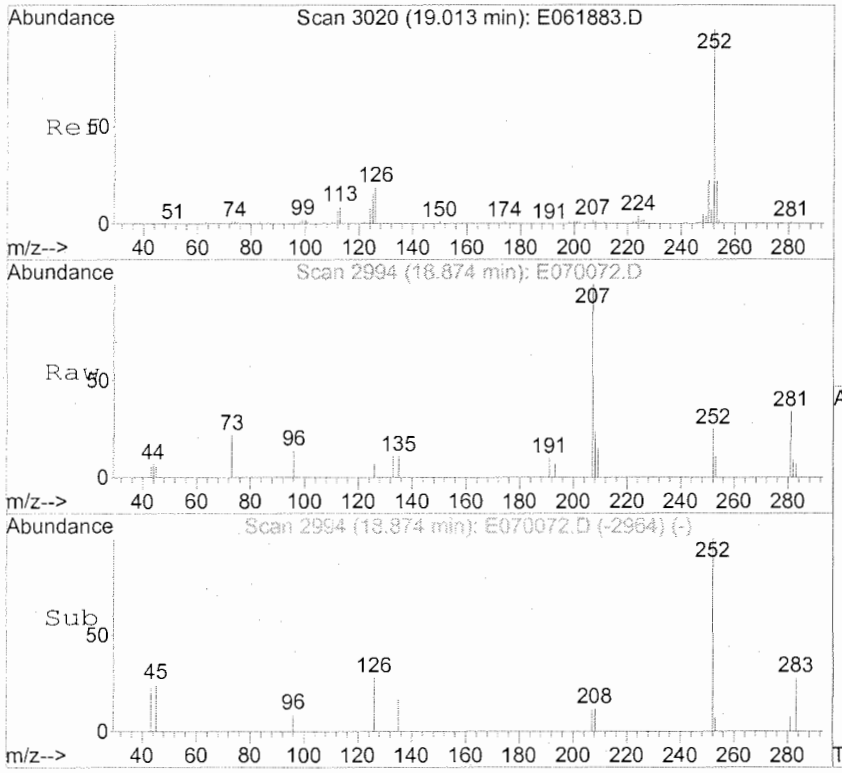


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.77 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070072.D
Acq: 19 Jan 2007 12:57 pm

Tgt Ion:149 Resp: 5637

Ion	Ratio	Lower	Upper
149	100		
167	29.6	25.0	37.6
279	3.8	6.2	9.2#

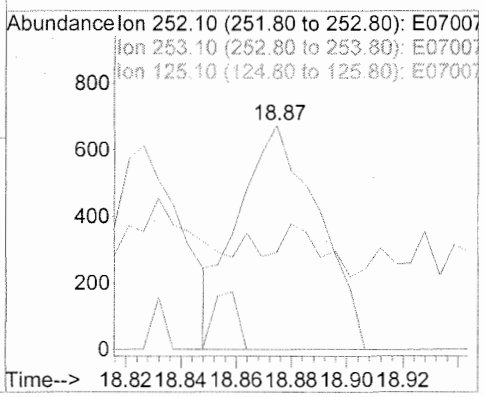


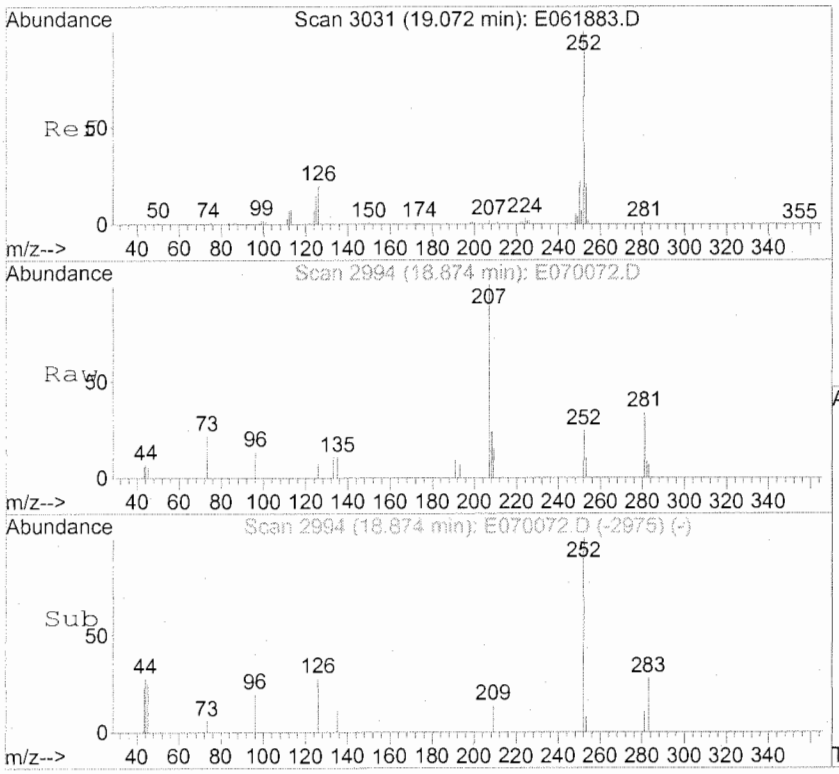


#82
Benzo(b)fluoranthene
Concen: 0.22 mg/L
RT: 18.87 min Scan# 2994
Delta R.T. -0.14 min
Lab File: E070072.D
Acq: 19 Jan 2007 12:57 pm

Tgt Ion:252 Resp: 1364

Ion	Ratio	Lower	Upper
252	100		
253	11.9	17.7	26.5#
125	7.8	6.3	9.5

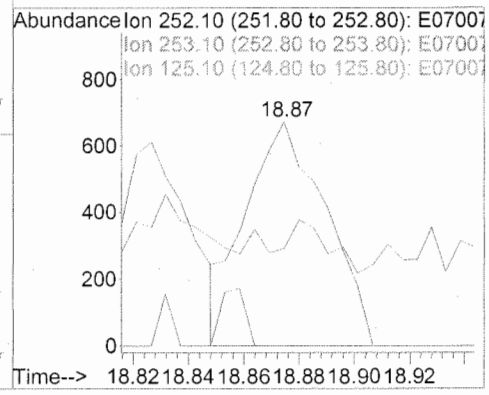


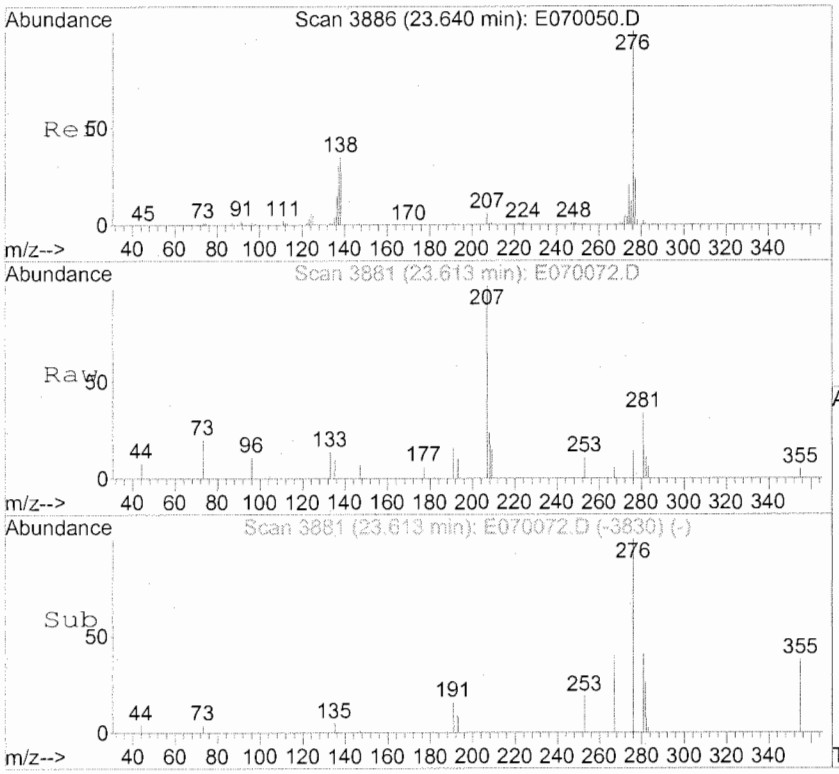


#83
Benzo(k)fluoranthene
Concen: 0.23 mg/L
RT: 18.87 min Scan# 2994
Delta R.T. -0.20 min
Lab File: E070072.D
Acq: 19 Jan 2007 12:57 pm

Tgt Ion:252 Resp: 1364

Ion	Ratio	Lower	Upper
252	100		
253	11.9	17.2	25.8#
125	7.8	6.2	9.4

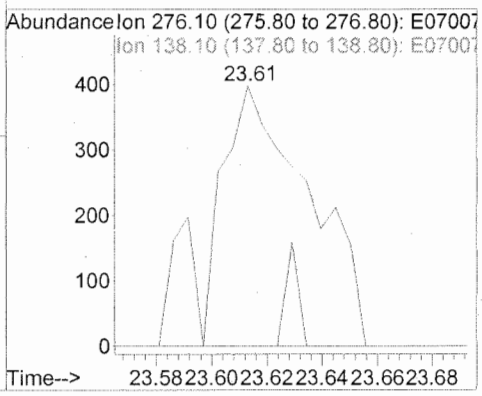




#87
Benzo(g,h,i)perylene
Concen: 0.27 mg/L
RT: 23.61 min Scan# 3881
Delta R.T. -0.03 min
Lab File: E070072.D
Acq: 19 Jan 2007 12:57 pm

Tgt Ion:276 Resp: 861

Ion	Ratio	Lower	Upper
276	100		
138	5.9	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/09/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76110	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070056.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 16:54	**Quant Date:**	01/19/2007 08:45	**Vial:**	9
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-002			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	147872	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	587158	40.00	OK
3	Acenaphthene-d10	10.17	-0.01?	164	330053	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	500344	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	249974	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	146060	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	196122	41.66	83	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	263413	43.17	86	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	237176	47.81	96	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	481283	46.25	93	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	49561	41.30	83	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	345015	49.38	99	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.96	0.01	0.00	88	75149	34.70	33		
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070056.D		**Instrument:** MSE
Acqu Date:	01/18/2007 16:54	**Quant Date:** 01/19/2007 08:45	**Vial:** 9
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0700056-002		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	6227	1.99	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0d		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0d		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acccptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070056.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 16:54	**Quant Date:**	01/19/2007 08:45	**Vial:**	9
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-002			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate				149	0d		0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0d		0.48	U	
5	3,3'-Dichlorobenzidine				252	0d		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.71	-0.01	0.00	149	6073	0.9600	0.91	J	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0d		0.42	U	
6	Benzo(k)fluoranthene				252	0d		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0d		0.65	U	
6	Dibenz(a,h)anthracene				278	0d		0.62	U	
6	Benzo(g,h,i)perylene				276	0d		0.74	U	

Prep Amount: 1050 ml **Dilution:** 1.0
Prep Final Vol: 1.0 ml **Unit Factor:** 1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070056.D Vial: 9
Acq On : 18 Jan 2007 4:54 pm Operator: GJ
Sample : D0700056-002 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:44:19 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	147872	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	587158	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	330053	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	500344	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	249974	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	146060	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	196122	41.66	mg/L	-0.06
Spiked Amount 50.000			Recovery =	83.32%		
7) Phenol-d5	5.81	99	263413	43.17	mg/L	-0.06
Spiked Amount 50.000			Recovery =	86.34%		
23) Nitrobenzene-d5	7.03	82	237176	47.81	mg/L	-0.08
Spiked Amount 50.000			Recovery =	95.62%		
41) 2-Fluorobiphenyl	9.30	172	481283	46.25	mg/L	-0.09
Spiked Amount 50.000			Recovery =	92.50%		
61) 2,4,6-Tribromophenol	11.17	330	49561	41.30	mg/L	-0.10
Spiked Amount 50.000			Recovery =	82.60%		
73) Terphenyl-d14	14.55	244	345015	49.38	mg/L	-0.14
Spiked Amount 50.000			Recovery =	98.76%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	75149	34.70	mg/L #	80
28) Benzoic acid	7.54	122	6227	1.99	mg/L #	82
67) Carbazole	12.35	167	634	Below Cal	#	89
78) Bis(2-ethylhexyl)phthalate	16.71	149	6073	0.96	mg/L #	97

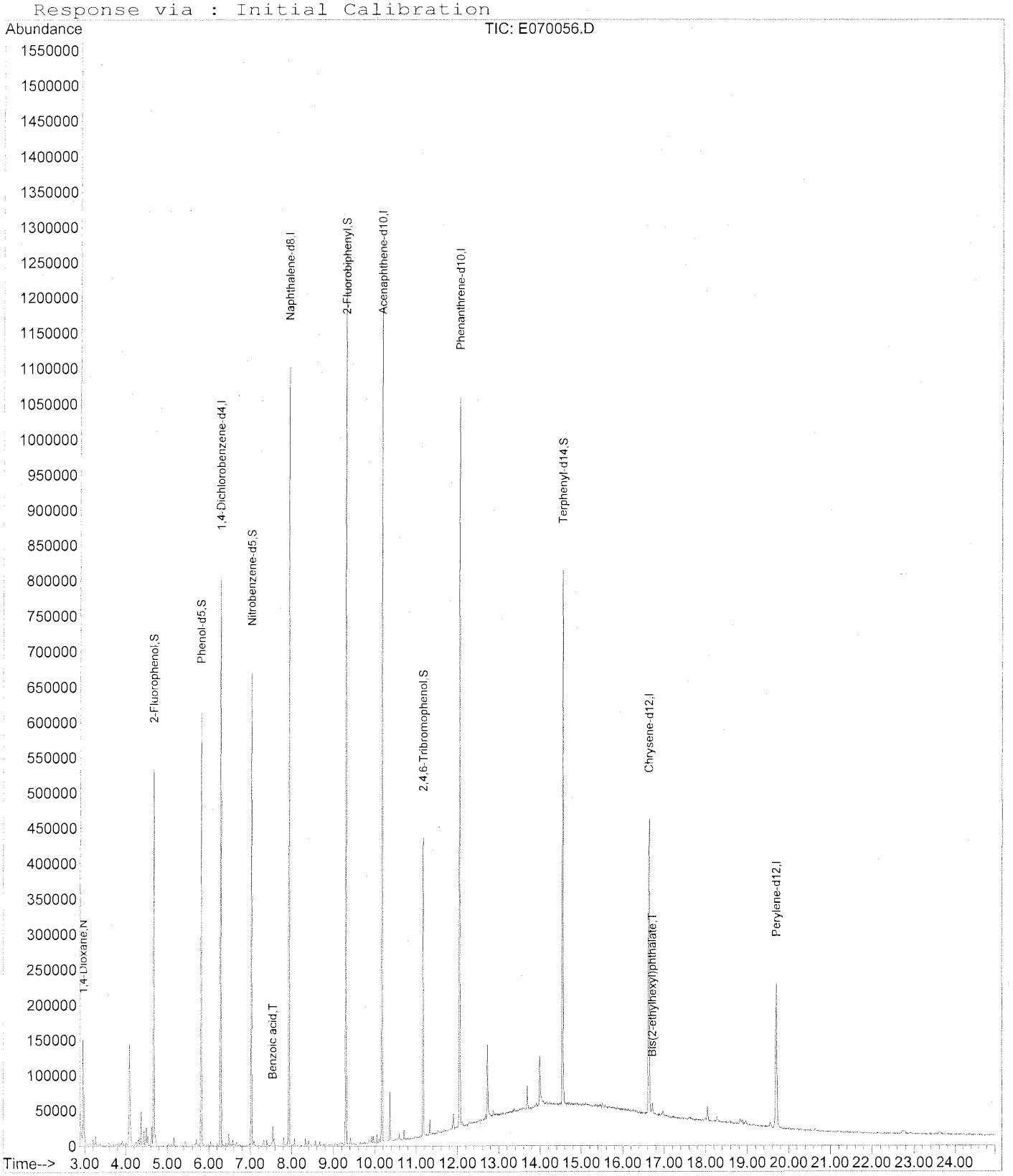
a 1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070056.D Vial: 9
Acq On : 18 Jan 2007 4:54 pm Operator: GJ
Sample : D0700056-002 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:45 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070056.D Vial: 9
Acq On : 18 Jan 2007 4:54 pm Operator: GJ
Sample : D0700056-002 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:44:19 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

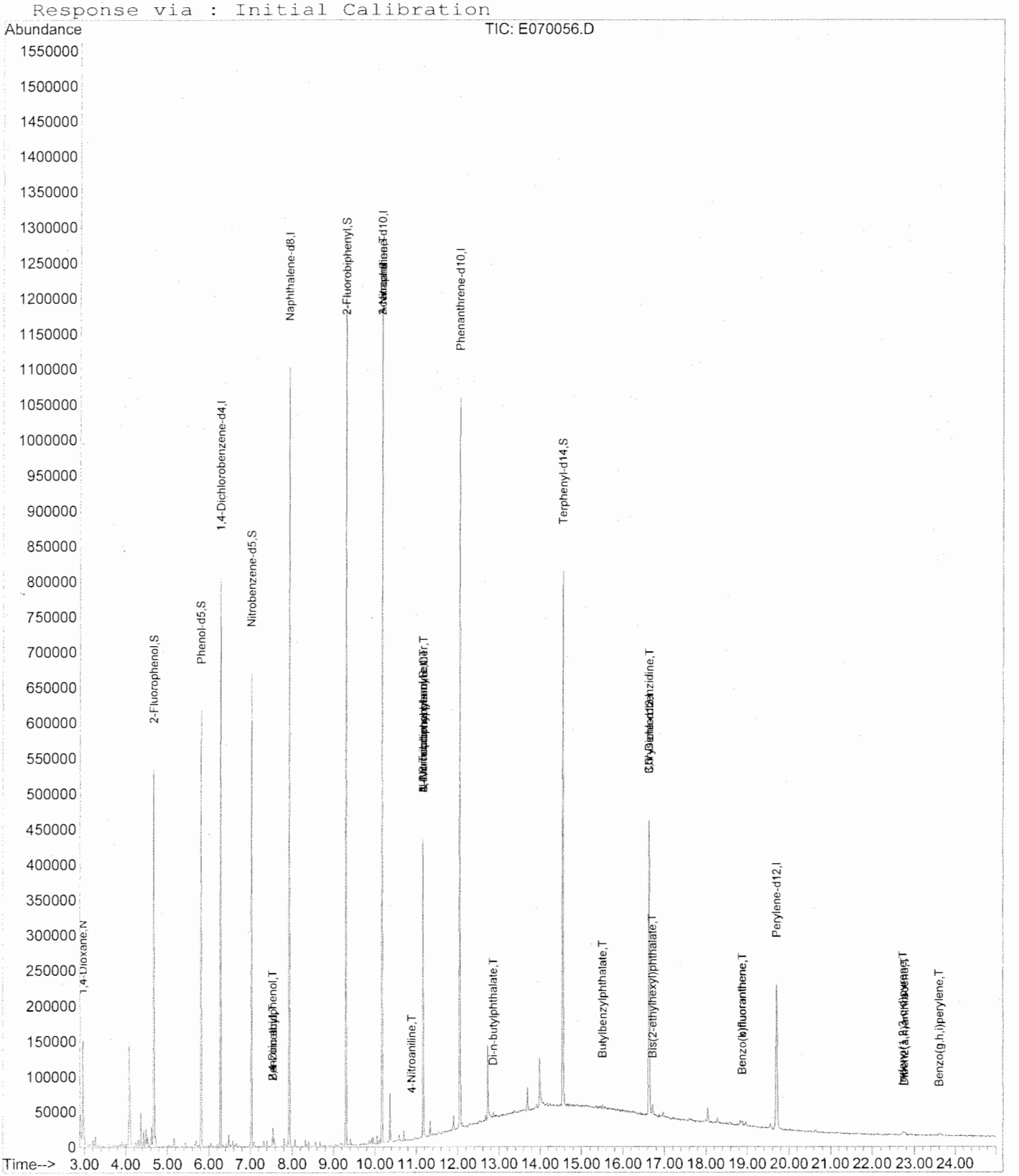
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	147872	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	587158	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	330053	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	500344	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	249974	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	146060	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	196122	41.66	mg/L	-0.06
Spiked Amount 50.000			Recovery =	83.32%		
7) Phenol-d5	5.81	99	263413	43.17	mg/L	-0.06
Spiked Amount 50.000			Recovery =	86.34%		
23) Nitrobenzene-d5	7.03	82	237176	47.81	mg/L	-0.08
Spiked Amount 50.000			Recovery =	95.62%		
41) 2-Fluorobiphenyl	9.30	172	481283	46.25	mg/L	-0.09
Spiked Amount 50.000			Recovery =	92.50%		
61) 2,4,6-Tribromophenol	11.17	330	49561	41.30	mg/L	-0.10
Spiked Amount 50.000			Recovery =	82.60%		
73) Terphenyl-d14	14.55	244	345015	49.38	mg/L	-0.14
Spiked Amount 50.000			Recovery =	98.76%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	75149	34.70	mg/L #	80
27) 2,4-Dimethylphenol	7.54	122	6227	1.31	mg/L #	1
28) Benzoic acid	7.54	122	6227	1.99	mg/L #	82
47) 3-Nitroaniline	10.18	138	103	1.82	mg/L #	1
56) 4-Nitroaniline	10.89	138	125	2.20	mg/L #	6
59) N-Nitrosodiphenylamine	11.16	169	2560	0.36	mg/L #	41
62) 4-Bromophenyl phenyl ether	11.17	248	3008	1.14	mg/L #	1
67) Carbazole	12.35	167	634	Below Cal	#	89
68) Di-n-butylphthalate	12.86	149	4465	0.29	mg/L #	95
74) Butylbenzylphthalate	15.51	149	1423	0.29	mg/L #	83
75) 3,3'-Dichlorobenzidine	16.63	252	111	0.33	mg/L #	1
78) Bis(2-ethylhexyl)phthalate	16.71	149	6073	0.96	mg/L #	97
82) Benzo(b)fluoranthene	18.87	252	4144	0.78	mg/L #	68
83) Benzo(k)fluoranthene	18.87	252	4153	0.81	mg/L #	69
85) Indeno(1,2,3-c,d)pyrene	22.72	276	5777	1.71	mg/L #	63
86) Dibenz(a,h)anthracene	22.76	278	4540	1.56	mg/L	99
87) Benzo(g,h,i)perylene	23.61	276	4740	1.70	mg/L #	78

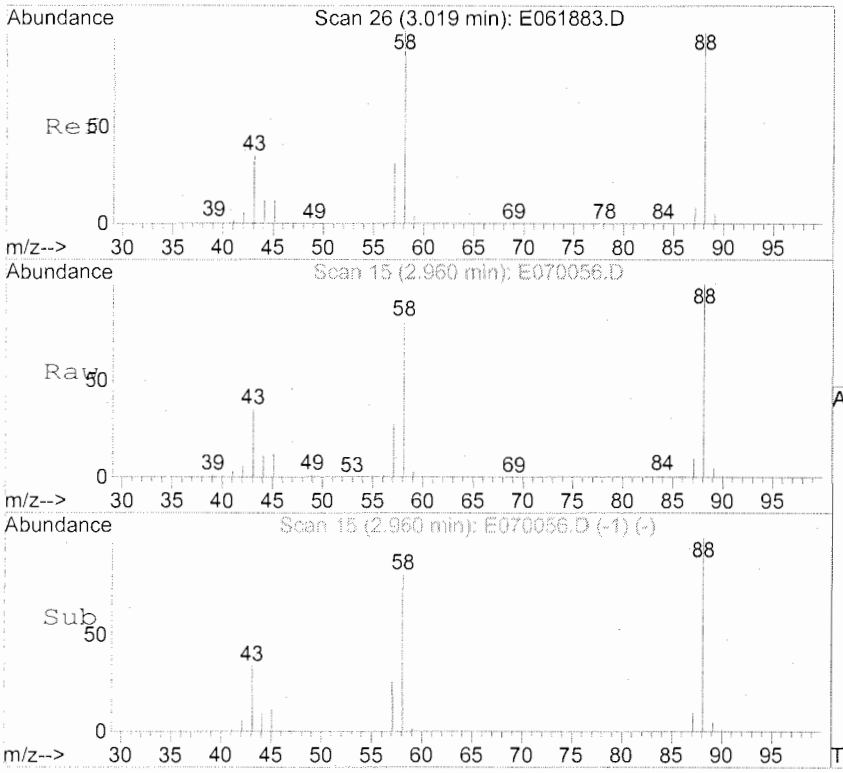
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070056.D Vial: 9
Acq On : 18 Jan 2007 4:54 pm Operator: GJ
Sample : D0700056-002 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:44 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

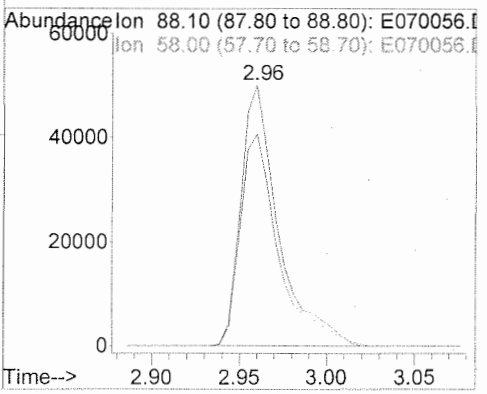


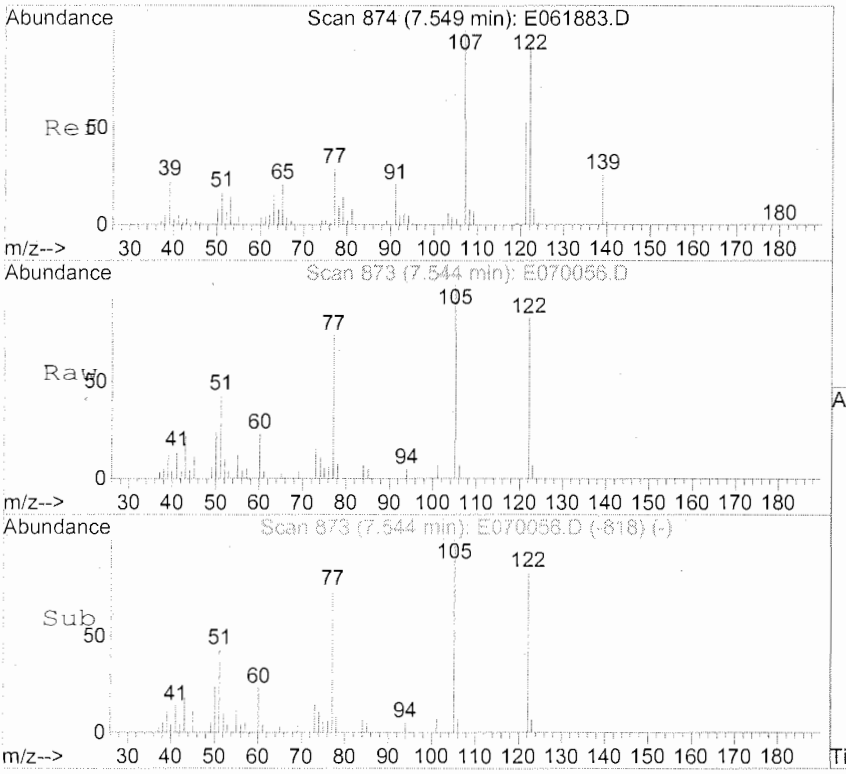


#2
1,4-Dioxane
Concen: 34.70 mg/L
RT: 2.96 min Scan# 15
Delta R.T. -0.06 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion: 88 Resp: 75149

Ion	Ratio	Lower	Upper
88	100		
58	82.8	53.5	80.3#

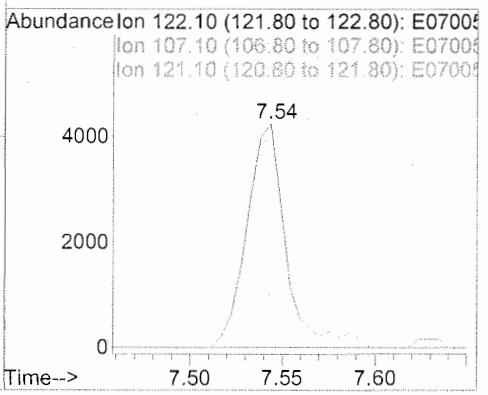


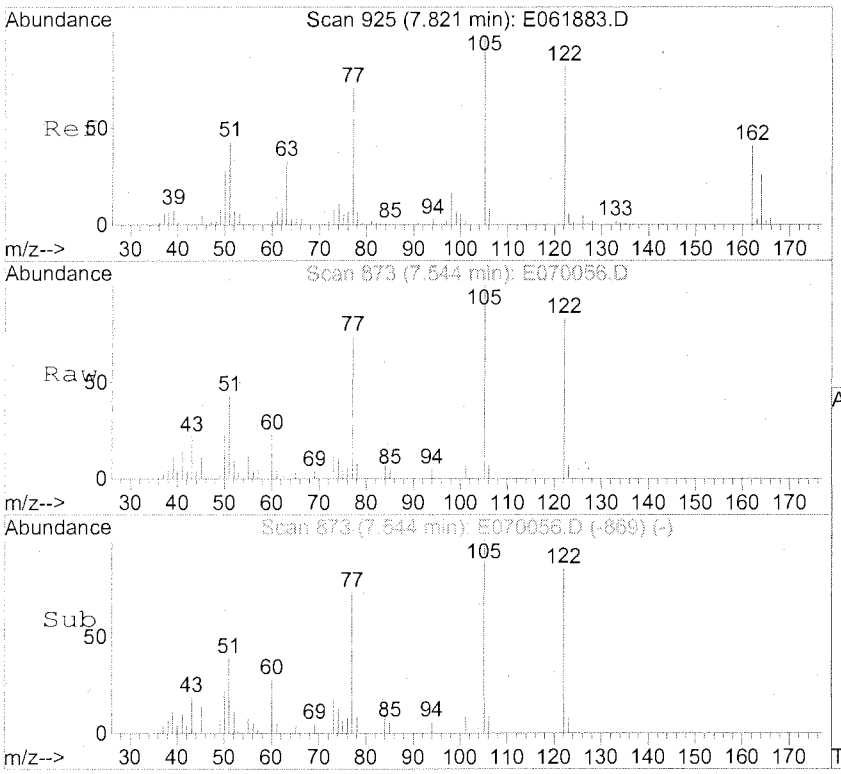


#27
2,4-Dimethylphenol
Concen: 1.31 mg/L
RT: 7.54 min Scan# 873
Delta R.T. -0.01 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:122 Resp: 6227

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

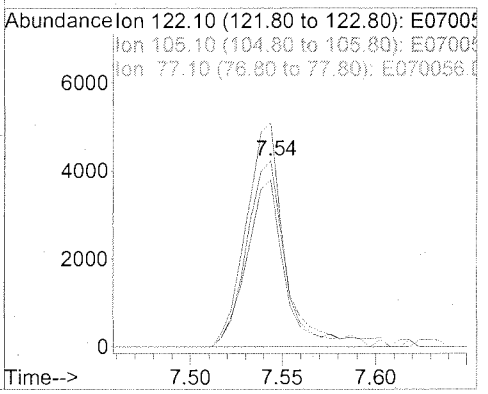


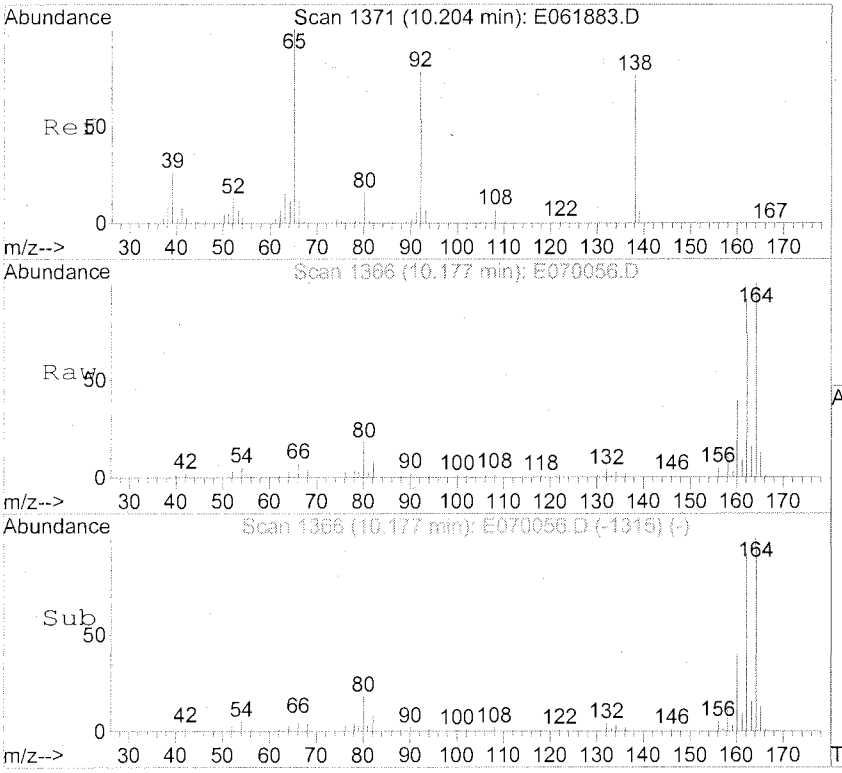


#28
Benzoic acid
Concen: 1.99 mg/L
RT: 7.54 min Scan# 873
Delta R.T. -0.28 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:122 Resp: 6227

Ion	Ratio	Lower	Upper
122	100		
105	121.1	110.2	165.2
77	87.2	89.8	134.8#

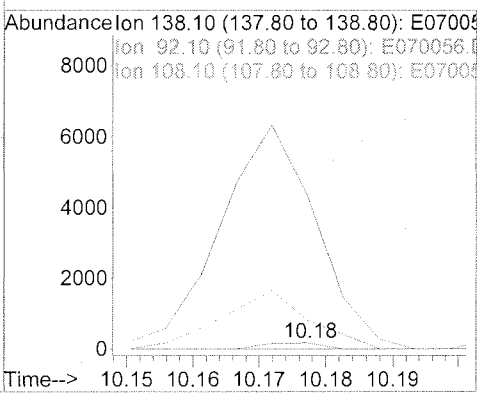


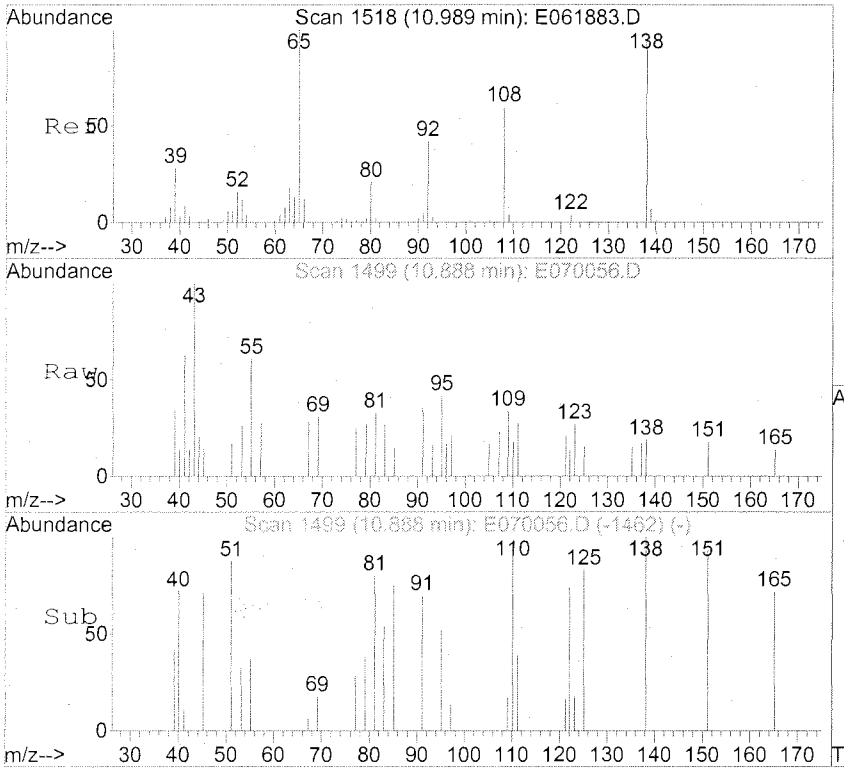


#47
3-Nitroaniline
Concen: 1.82 mg/L
RT: 10.18 min Scan# 1366
Delta R.T. -0.03 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:138 Resp: 103

Ion	Ratio	Lower	Upper
138	100		
92	1475.7	95.2	142.8#
108	6228.2	8.1	12.1#

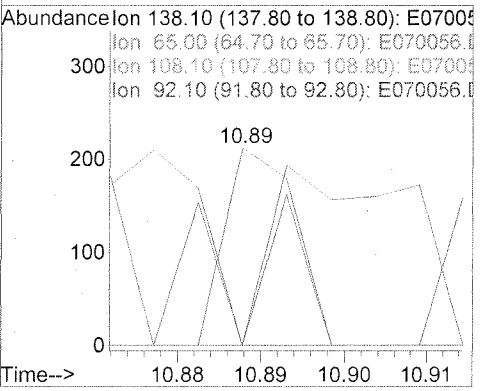


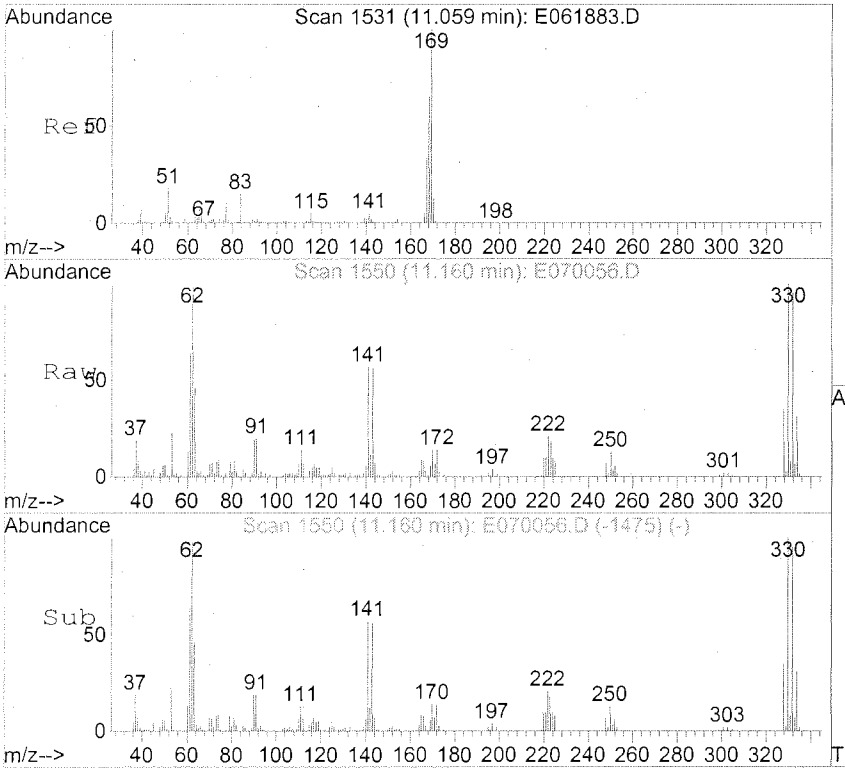


#56
4-Nitroaniline
Concen: 2.20 mg/L
RT: 10.89 min Scan# 1499
Delta R.T. -0.10 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:138 Resp: 125

Ion	Ratio	Lower	Upper
138	100		
65	214.4	86.4	129.6#
108	0.0	75.0	112.6#
92	0.0	41.4	62.0#

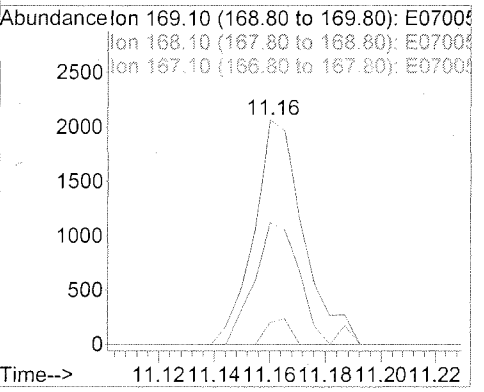


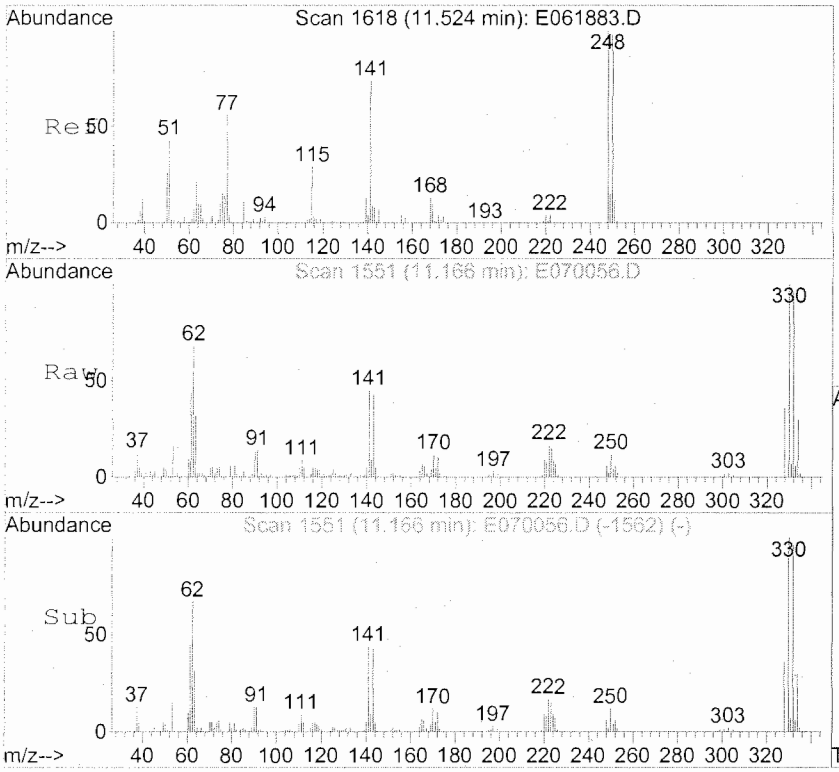


#59
N-Nitrosodiphenylamine
Concen: 0.36 mg/L
RT: 11.16 min Scan# 1550
Delta R.T. 0.10 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:169 Resp: 2560

Ion	Ratio	Lower	Upper
169	100		
168	5.5	50.8	76.2#
167	51.0	27.0	40.4#

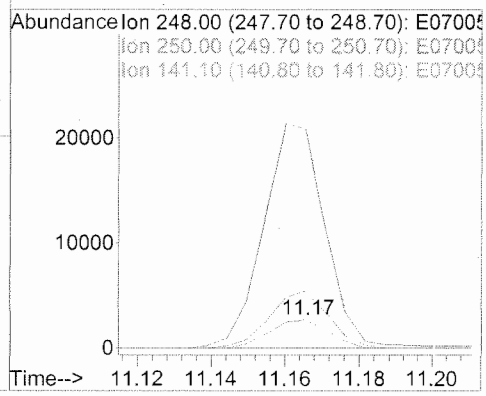


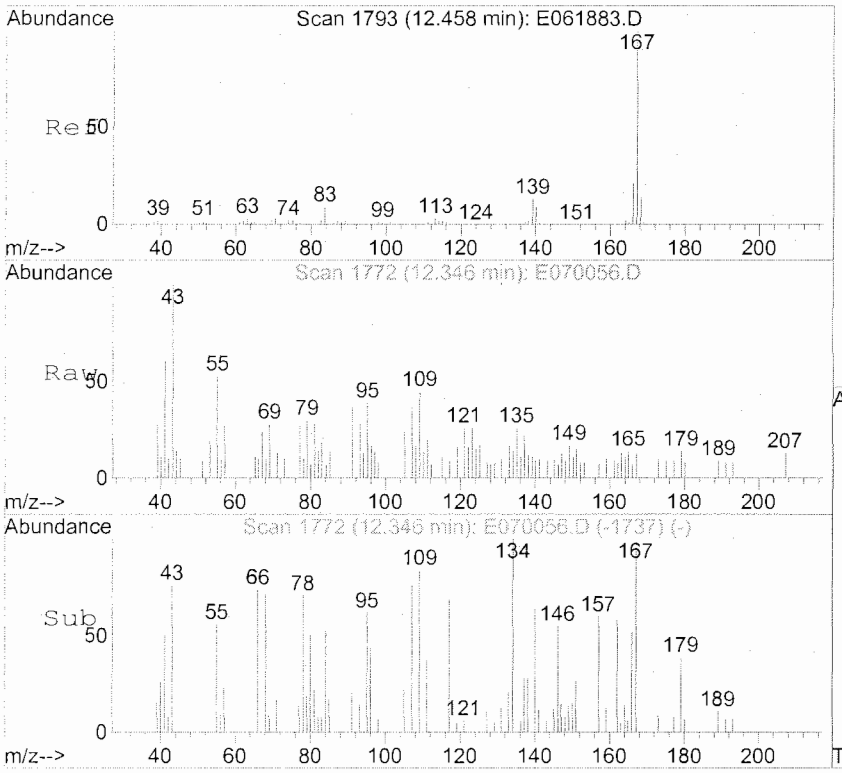


#62
4-Bromophenyl phenyl ether
Concen: 1.14 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:248 Resp: 3008

Ion	Ratio	Lower	Upper
248	100		
250	199.6	79.0	118.4#
141	829.3	64.3	96.5#

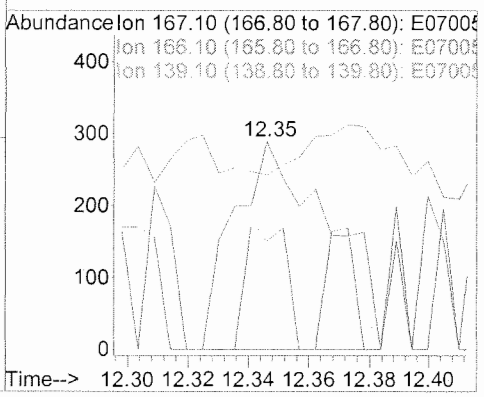


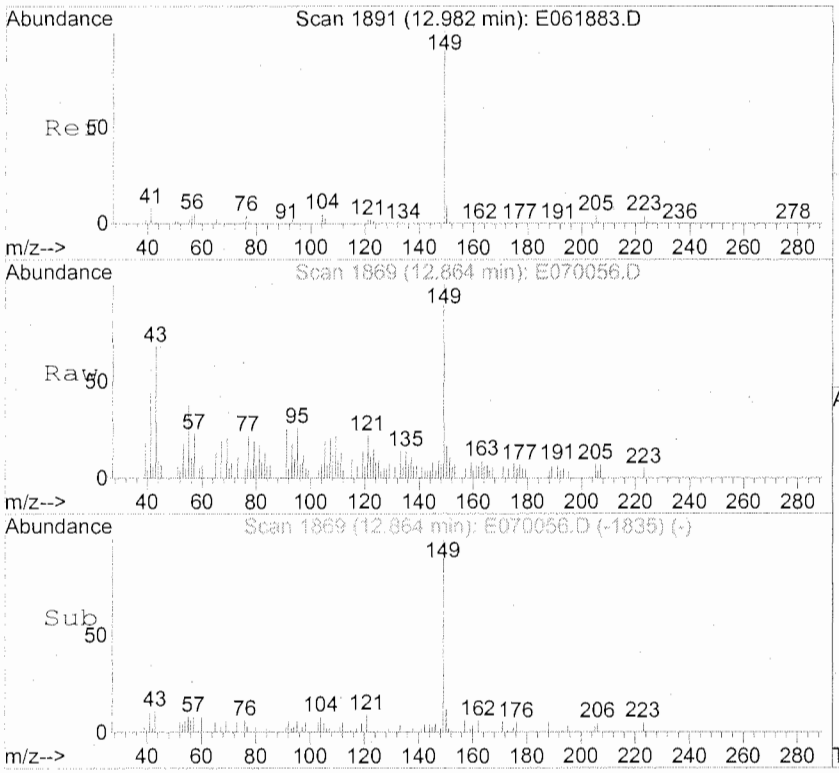


#67
Carbazole
Concen: Below Cal
RT: 12.35 min Scan# 1772
Delta R.T. -0.11 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:167 Resp: 634

Ion	Ratio	Lower	Upper
167	100		
166	24.8	17.2	25.8
139	20.2	10.6	16.0#

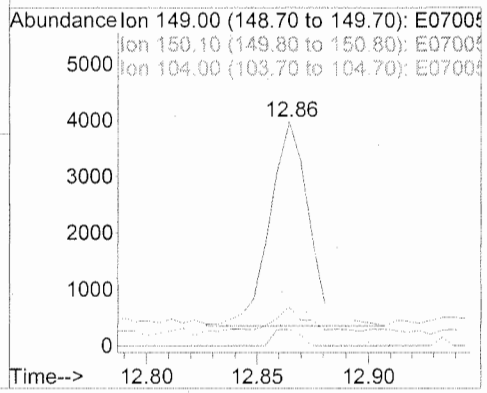


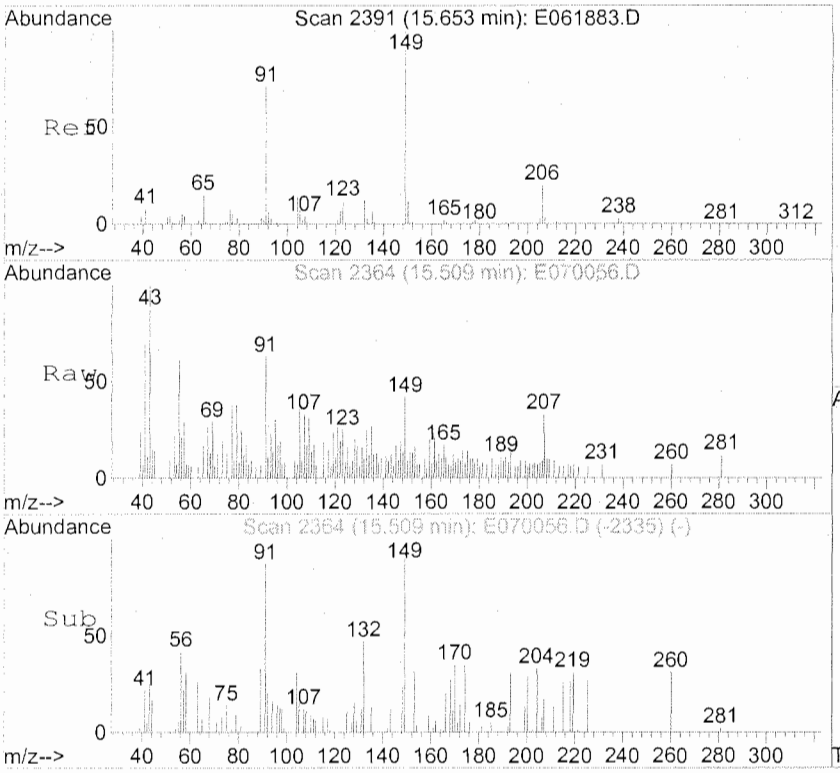


#68
Di-n-butylphthalate
Concen: 0.29 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:149 Resp: 4465

Ion	Ratio	Lower	Upper
149	100		
150	11.9	7.3	10.9#
104	5.5	4.6	7.0

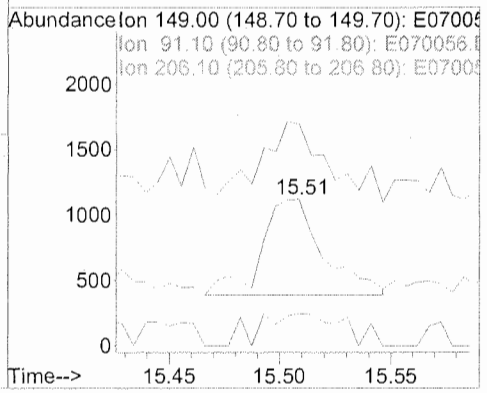


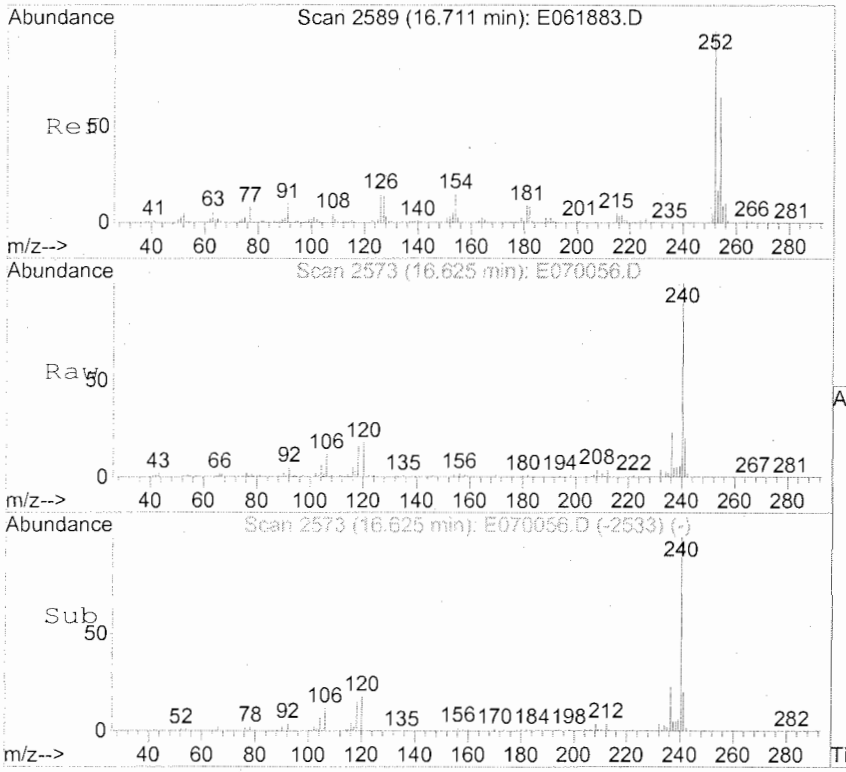


#74
Butylbenzylphthalate
Concen: 0.29 mg/L
RT: 15.51 min Scan# 2364
Delta R.T. -0.14 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:149 Resp: 1423

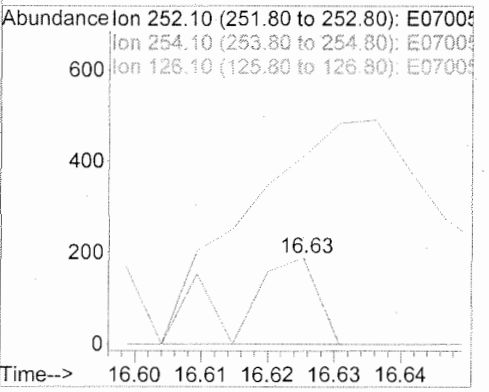
Ion	Ratio	Lower	Upper
149	100		
91	68.4	59.4	89.0
206	46.9	19.0	28.6#

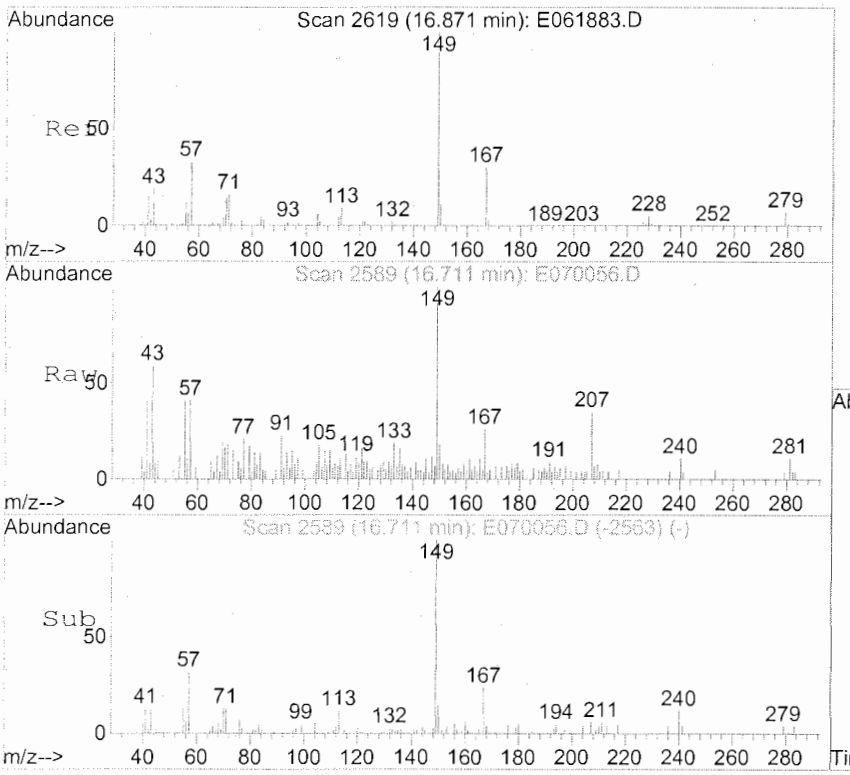




#75
3,3'-Dichlorobenzidine
Concen: 0.33 mg/L
RT: 16.63 min Scan# 2573
Delta R.T. -0.08 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

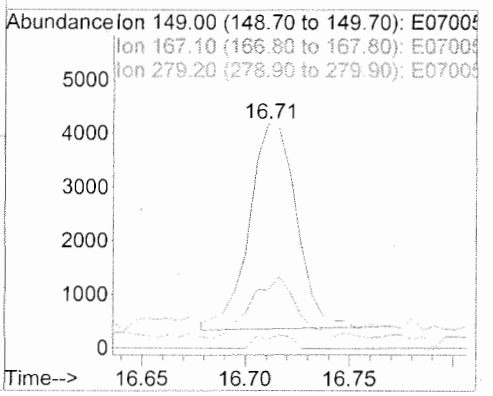
Tgt Ion:252	Resp:	111	
Ion	Ratio	Lower	Upper
252	100		
254	44.1	52.6	79.0#
126	927.9	8.2	12.2#

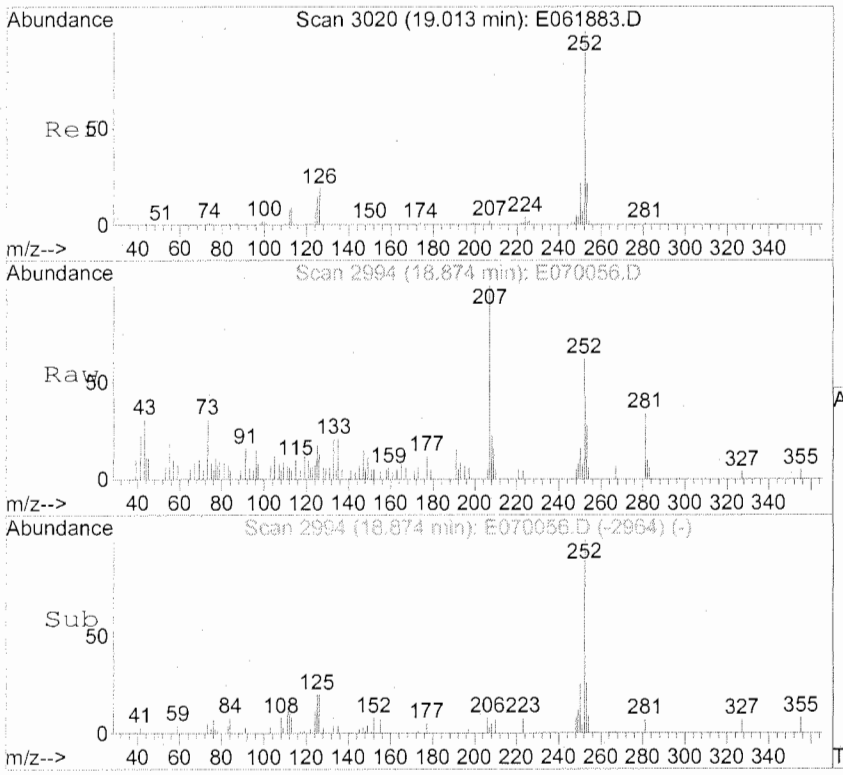




#78
Bis(2-ethylhexyl)phthalate
Concen: 0.96 mg/L
RT: 16.71 min Scan# 2589
Delta R.T. -0.16 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:149	Resp:	6073	
Ion	Ratio	Lower	Upper
149	100		
167	30.6	25.0	37.6
279	4.5	6.2	9.2#

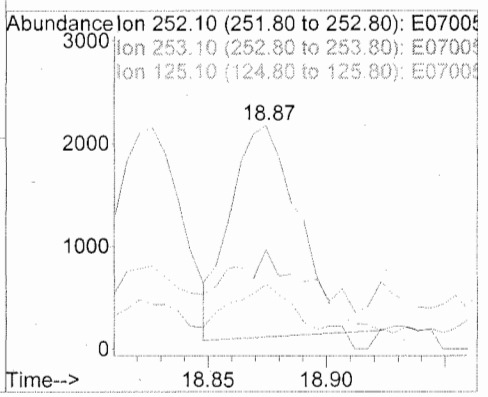


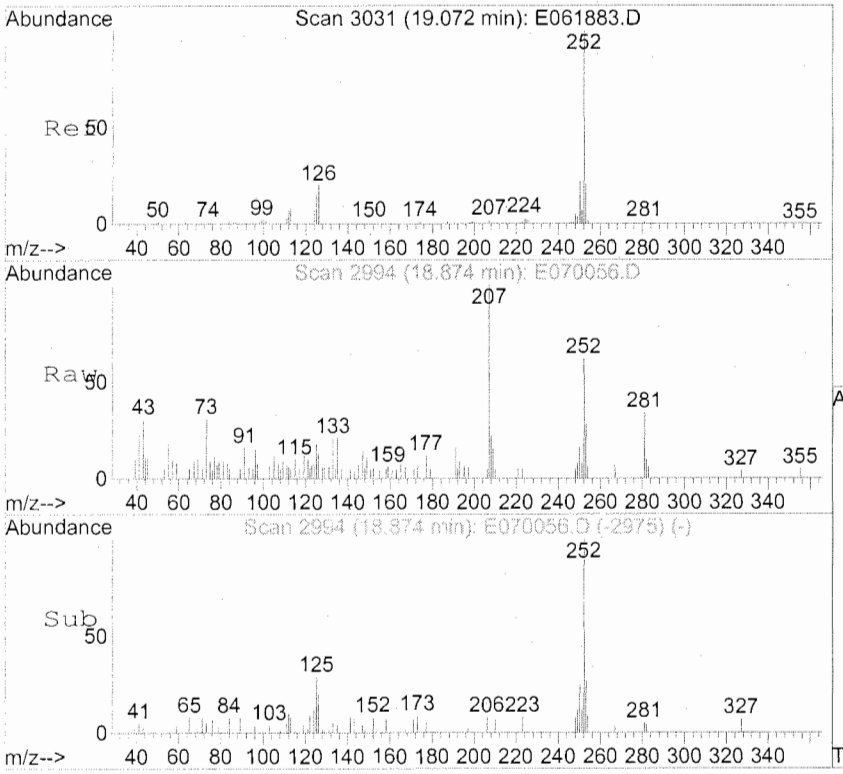


#82
Benzo(b)fluoranthene
Concen: 0.78 mg/L
RT: 18.87 min Scan# 2994
Delta R.T. -0.14 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:252 Resp: 4144

Ion	Ratio	Lower	Upper
252	100		
253	30.6	17.7	26.5#
125	33.2	6.3	9.5#

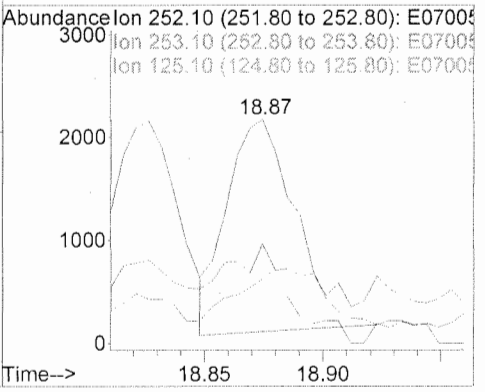


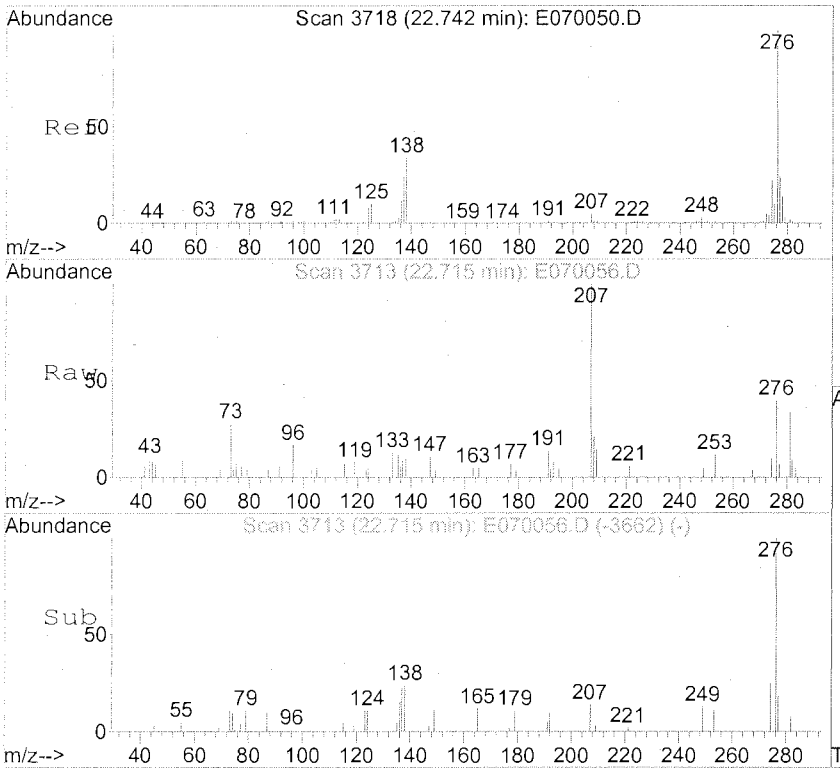


#83
Benzo(k)fluoranthene
Concen: 0.81 mg/L
RT: 18.87 min Scan# 2994
Delta R.T. -0.20 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:252 Resp: 4153

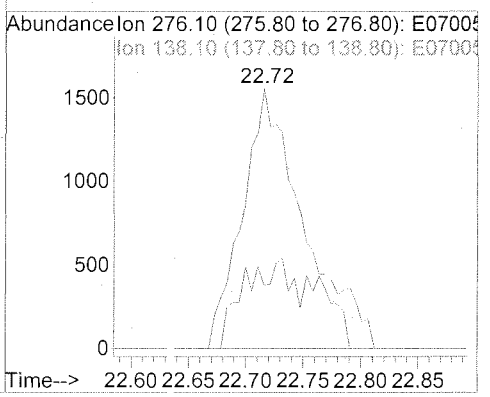
Ion	Ratio	Lower	Upper
252	100		
253	29.1	17.2	25.8#
125	33.1	6.2	9.4#

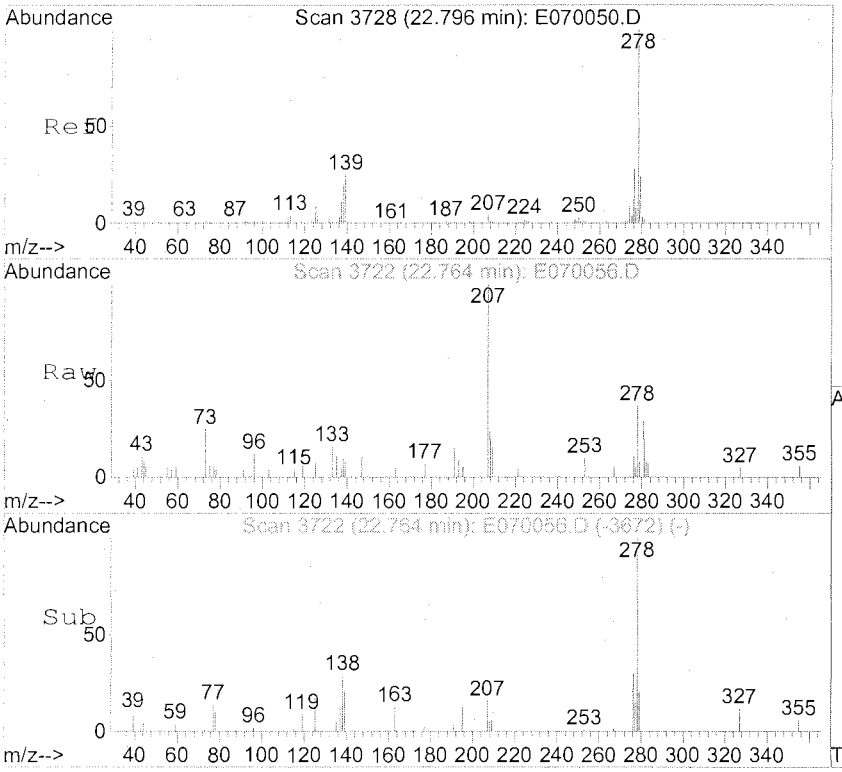




#85
Indeno(1,2,3-c,d)pyrene
Concen: 1.71 mg/L
RT: 22.72 min Scan# 3713
Delta R.T. -0.03 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

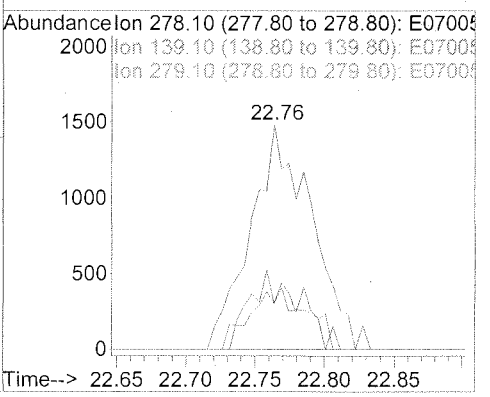
Tgt Ion:276	Resp:	5777	
Ion	Ratio	Lower	Upper
276	100		
138	11.4	25.4	38.0#

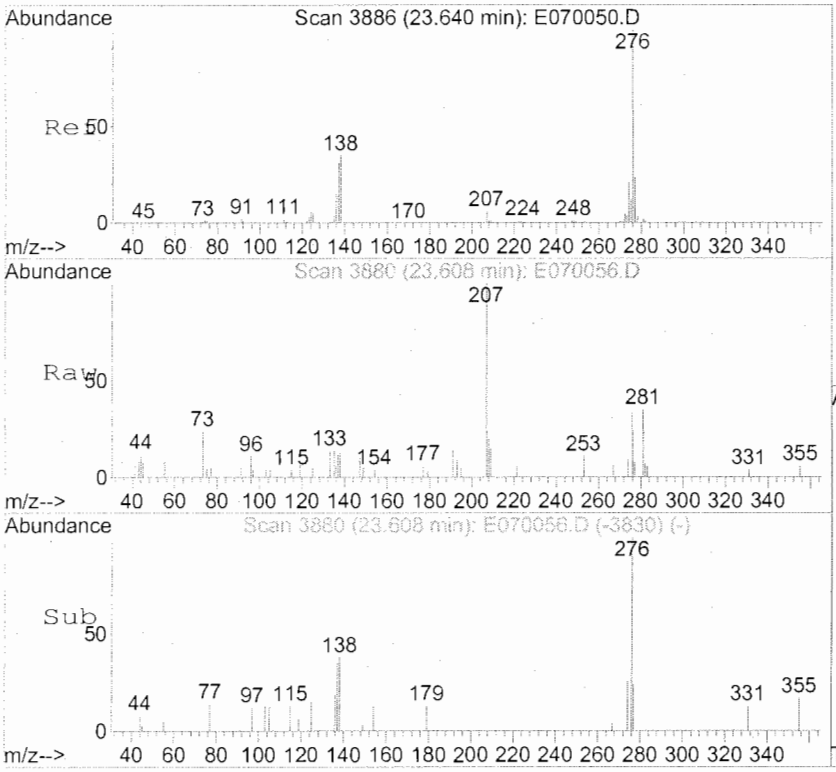




#86
Dibenz(a,h)anthracene
Concen: 1.56 mg/L
RT: 22.76 min Scan# 3722
Delta R.T. -0.03 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:278	Resp:	4540	
Ion	Ratio	Lower	Upper
278	100		
139	21.5	18.0	27.0
279	24.6	19.4	29.0

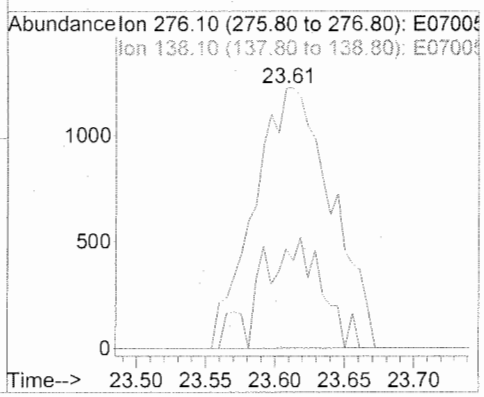




#87
Benzo(g,h,i)perylene
Concen: 1.70 mg/L
RT: 23.61 min Scan# 3880
Delta R.T. -0.03 min
Lab File: E070056.D
Acq: 18 Jan 2007 4:54 pm

Tgt Ion:276 Resp: 4740

Ion	Ratio	Lower	Upper
276	100		
138	20.3	26.2	39.2#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/09/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76111	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070057.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 17:27	**Quant Date:**	01/19/2007 08:48	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-004			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	160428	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	635470	40.00	OK
3	Acenaphthene-d10	10.18	0.00?	164	361928	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	555721	40.00	OK
5	Chrysene-d12	16.64	-0.01?	240	308456	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	196943	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	206379	40.41	81	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	282039	42.60	85	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	253541	47.22	94	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	533621	46.76	94	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	53627	40.23	80	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	411738	47.76	96	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.96	0.01	0.00	88	83997	35.75	34		
1	N-Nitrosodimethylamine				42	0d		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070057.D		**Instrument:** MSE
Acqu Date:	01/18/2007 17:27	**Quant Date:** 01/19/2007 08:48	**Vial:** 10
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0700056-004		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0**d**		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	2641	0.7800	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0**d**		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070057.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 17:27	**Quant Date:**	01/19/2007 08:48	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-004			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.86	-0.02	0.00	149	3752	0.2200	0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0**d**		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate				149	0**d**		0.30	U	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0**d**		0.42	U	
6	Benzo(k)fluoranthene				252	0**d**		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Resnlt >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070057.D Vial: 10
Acq On : 18 Jan 2007 5:27 pm Operator: GJ
Sample : D0700056-004 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:46:27 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	160428	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	635470	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	361928	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	555721	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	308456	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	196943	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	206379	40.41	mg/L	-0.06
Spiked Amount 50.000			Recovery =	80.82%		
7) Phenol-d5	5.81	99	282039	42.60	mg/L	-0.06
Spiked Amount 50.000			Recovery =	85.20%		
23) Nitrobenzene-d5	7.03	82	253541	47.22	mg/L	-0.08
Spiked Amount 50.000			Recovery =	94.44%		
41) 2-Fluorobiphenyl	9.30	172	533621	46.76	mg/L	-0.09
Spiked Amount 50.000			Recovery =	93.52%		
61) 2,4,6-Tribromophenol	11.17	330	53627	40.23	mg/L	-0.10
Spiked Amount 50.000			Recovery =	80.46%		
73) Terphenyl-d14	14.55	244	411738	47.76	mg/L	-0.13
Spiked Amount 50.000			Recovery =	95.52%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	83997	35.75	mg/L #	80
28) Benzoic acid	7.54	122	2641	0.78	mg/L	87
67) Carbazole	12.35	167	51	Below Cal	#	59
68) Di-n-butylphthalate	12.86	149	3752	0.22	mg/L #	95

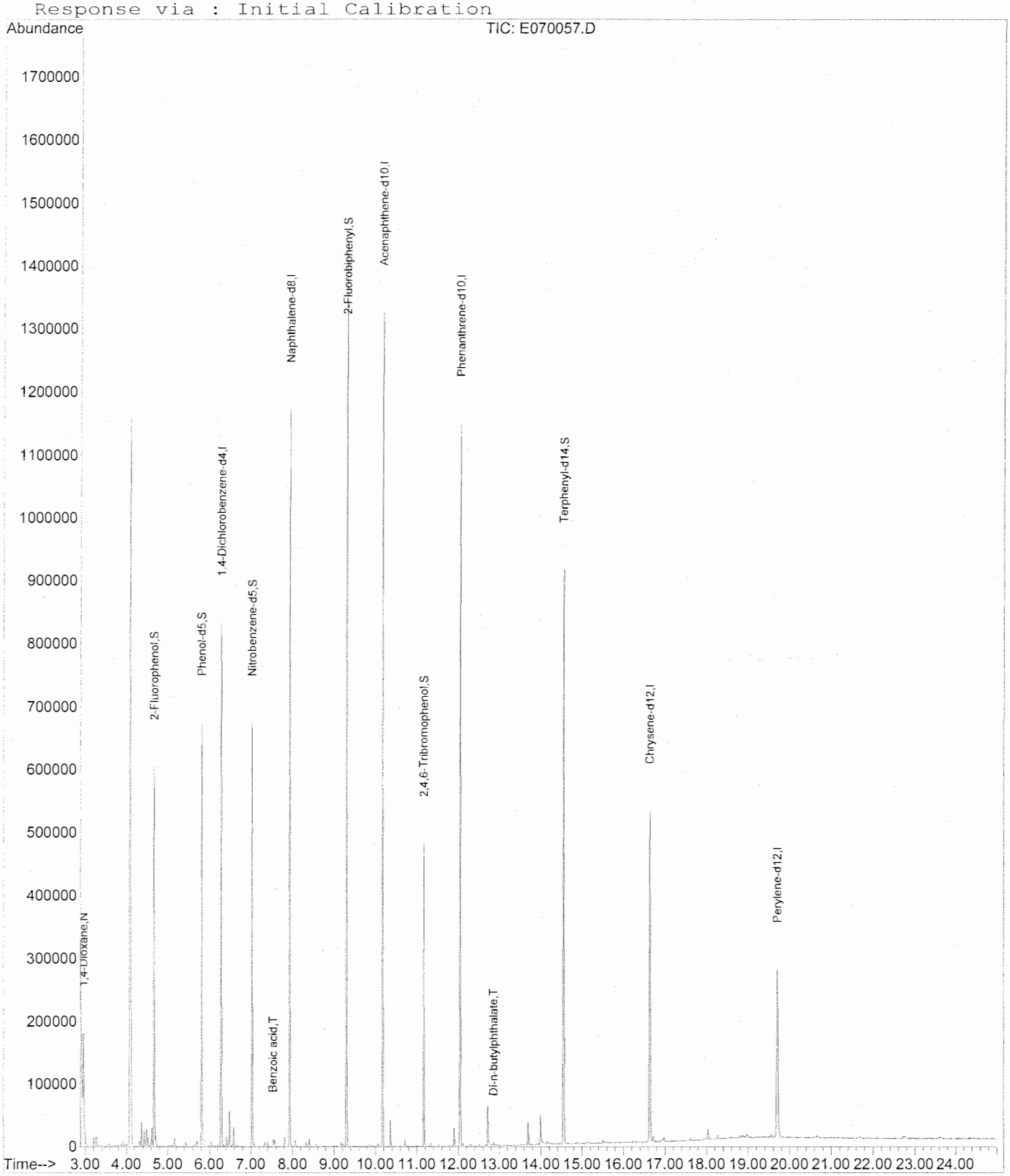
1/19/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070057.D Vial: 10
Acq On : 18 Jan 2007 5:27 pm Operator: GJ
Sample : D0700056-004 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:48 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070057.D Vial: 10
Acq On : 18 Jan 2007 5:27 pm Operator: GJ
Sample : D0700056-004 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:46:27 2007 Quant Results File: BA061226.RES

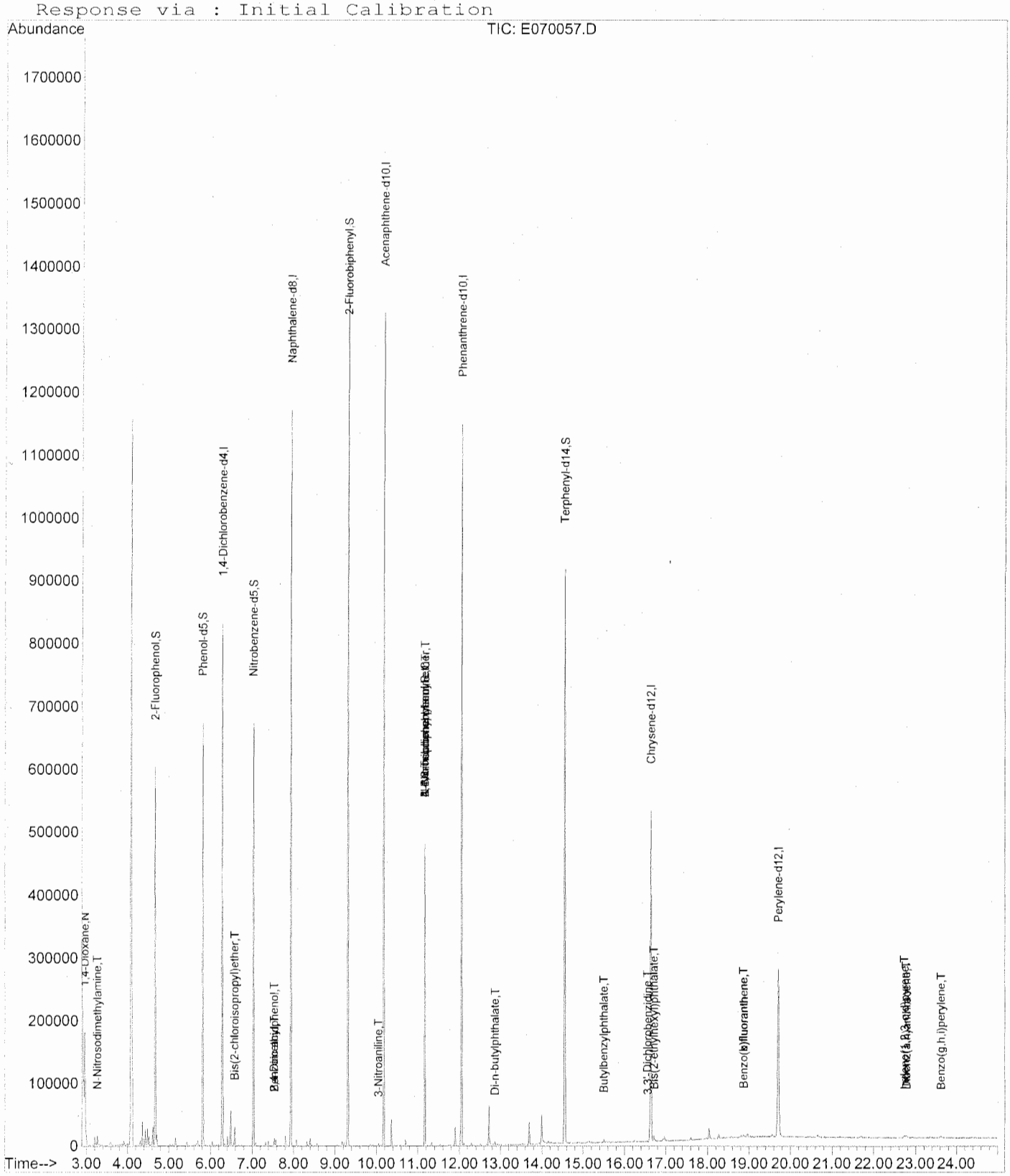
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

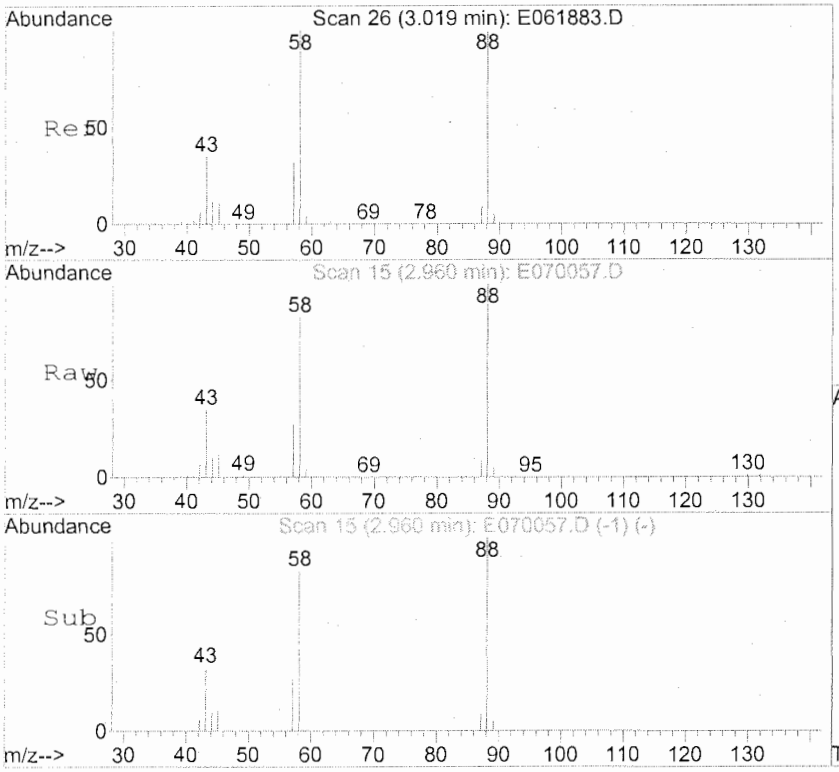
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	160428	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	635470	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.18	164	361928	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	555721	40.00	mg/L	-0.11
70) Chrysene-d12	16.64	240	308456	40.00	mg/L	-0.15
80) Perylene-d12	19.70	264	196943	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	206379	40.41	mg/L	-0.06
Spiked Amount 50.000			Recovery =	80.82%		
7) Phenol-d5	5.81	99	282039	42.60	mg/L	-0.06
Spiked Amount 50.000			Recovery =	85.20%		
23) Nitrobenzene-d5	7.03	82	253541	47.22	mg/L	-0.08
Spiked Amount 50.000			Recovery =	94.44%		
41) 2-Fluorobiphenyl	9.30	172	533621	46.76	mg/L	-0.09
Spiked Amount 50.000			Recovery =	93.52%		
61) 2,4,6-Tribromophenol	11.17	330	53627	40.23	mg/L	-0.10
Spiked Amount 50.000			Recovery =	80.46%		
73) Terphenyl-d14	14.55	244	411738	47.76	mg/L	-0.13
Spiked Amount 50.000			Recovery =	95.52%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.96	88	83997	35.75	mg/L #	80
3) N-Nitrosodimethylamine	3.26	42	640	0.21	mg/L #	1
18) Bis(2-chloroisopropyl)ethe	6.58	45	13354	1.22	mg/L #	49
27) 2,4-Dimethylphenol	7.54	122	2641	0.51	mg/L #	1
28) Benzoic acid	7.54	122	2641	0.78	mg/L	87
47) 3-Nitroaniline	10.05	138	59	1.80	mg/L #	1
59) N-Nitrosodiphenylamine	11.17	169	2400	0.30	mg/L #	40
62) 4-Bromophenyl phenyl ether	11.17	248	3185	1.09	mg/L #	1
67) Carbazole	12.35	167	51	Below Cal	#	59
68) Di-n-butylphthalate	12.86	149	3752	0.22	mg/L #	95
74) Butylbenzylphthalate	15.51	149	1213	0.20	mg/L #	92
75) 3,3'-Dichlorobenzidine	16.56	252	135	0.33	mg/L #	1
78) Bis(2-ethylhexyl)phthalate	16.72	149	3568	0.46	mg/L #	86
82) Benzo(b)fluoranthene	18.87	252	2652	0.37	mg/L #	79
83) Benzo(k)fluoranthene	18.87	252	2652	0.38	mg/L #	80
85) Indeno(1,2,3-c,d)pyrene	22.74	276	4454	0.98	mg/L #	88
86) Dibenz(a,h)anthracene	22.78	278	3641	0.93	mg/L	95
87) Benzo(g,h,i)perylene	23.62	276	3633	0.97	mg/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E070118\E070057.D Vial: 10
Acq On : 18 Jan 2007 5:27 pm Operator: GJ
Sample : D0700056-004 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 8:46 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration

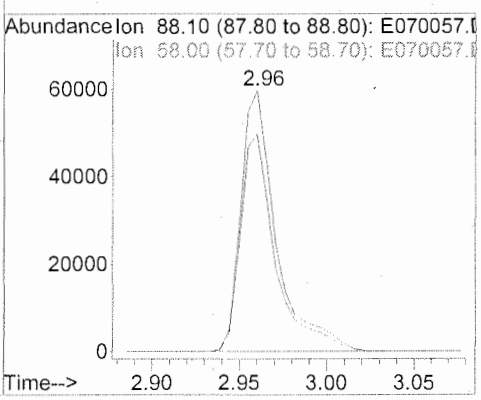


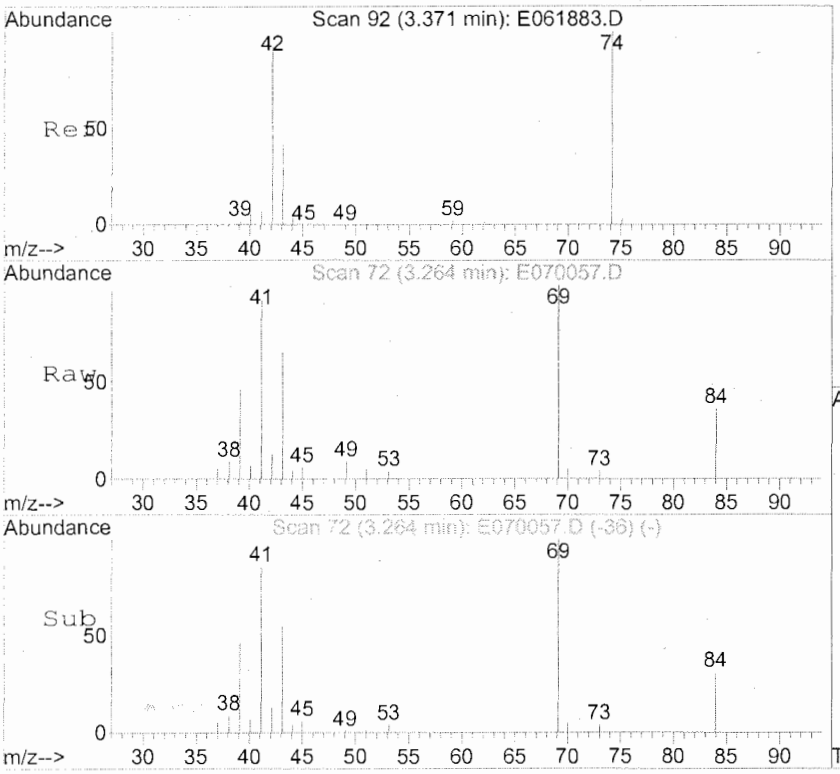


#2
1,4-Dioxane
Concen: 35.75 mg/L
RT: 2.96 min Scan# 15
Delta R.T. -0.06 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion: 88 Resp: 83997

Ion	Ratio	Lower	Upper
88	100		
58	82.6	53.5	80.3#

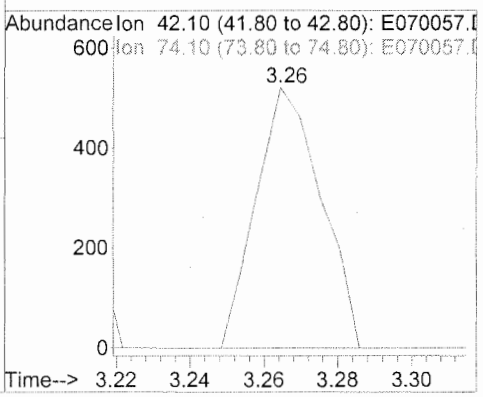


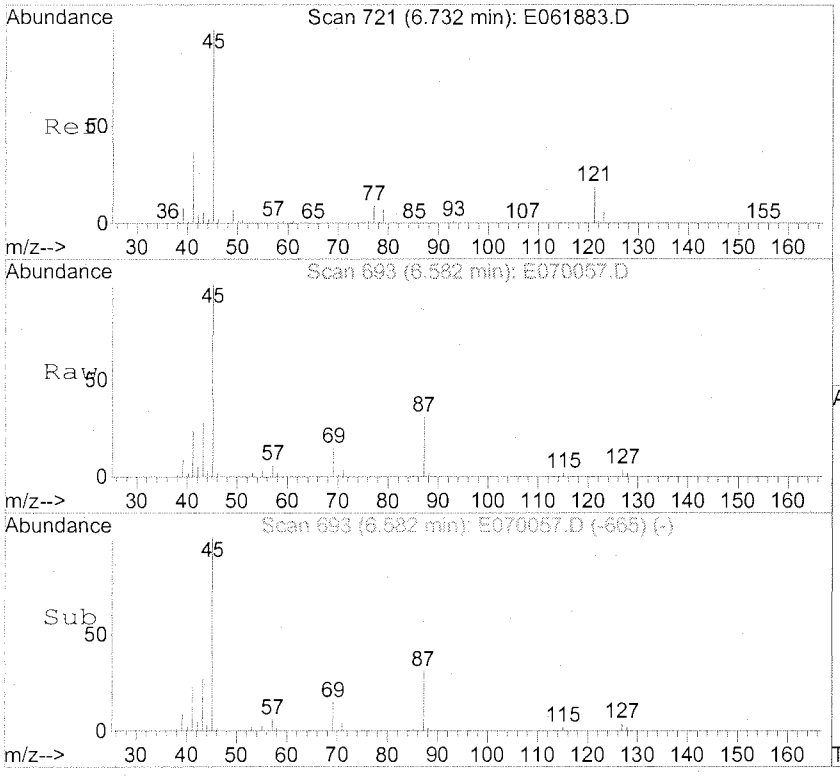


#3
N-Nitrosodimethylamine
Concen: 0.21 mg/L
RT: 3.26 min Scan# 72
Delta R.T. -0.11 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion: 42 Resp: 640

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

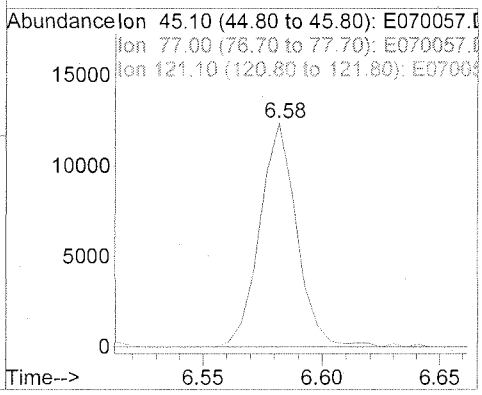


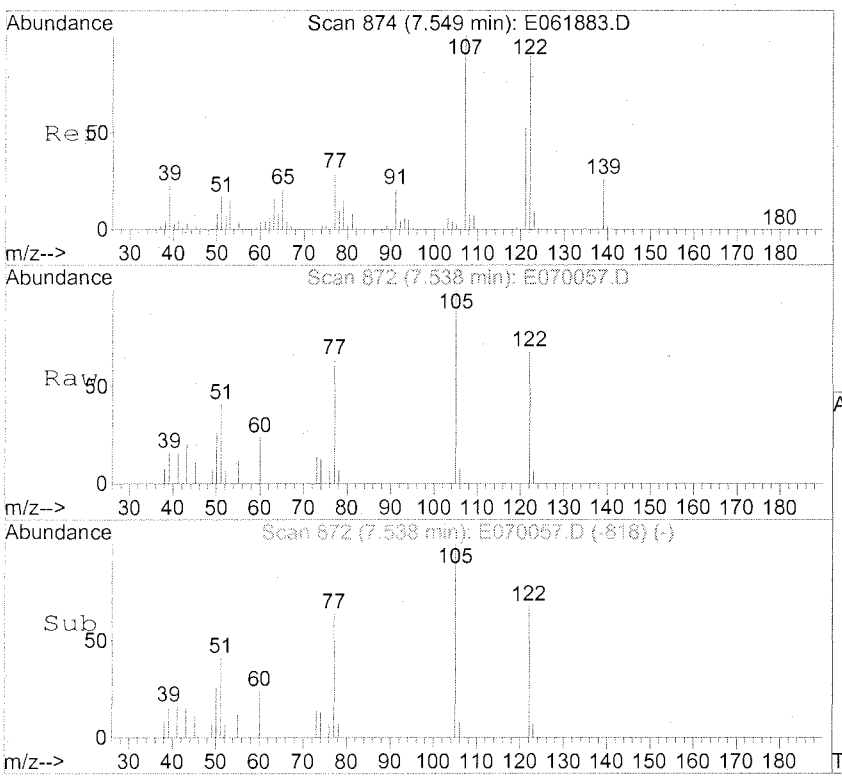


#18
Bis(2-chloroisopropyl)ether
Concen: 1.22 mg/L
RT: 6.58 min Scan# 693
Delta R.T. -0.15 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion: 45 Resp: 13354

Ion	Ratio	Lower	Upper
45	100		
77	0.0	14.2	21.4#
121	0.0	25.0	37.6#

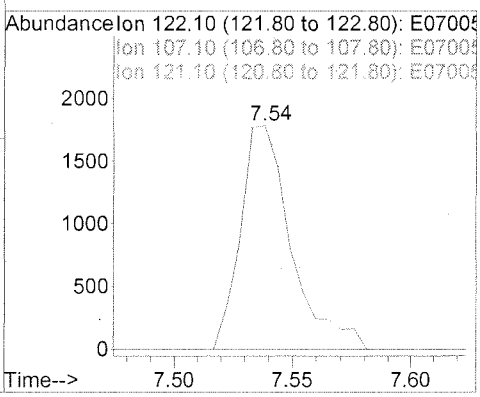


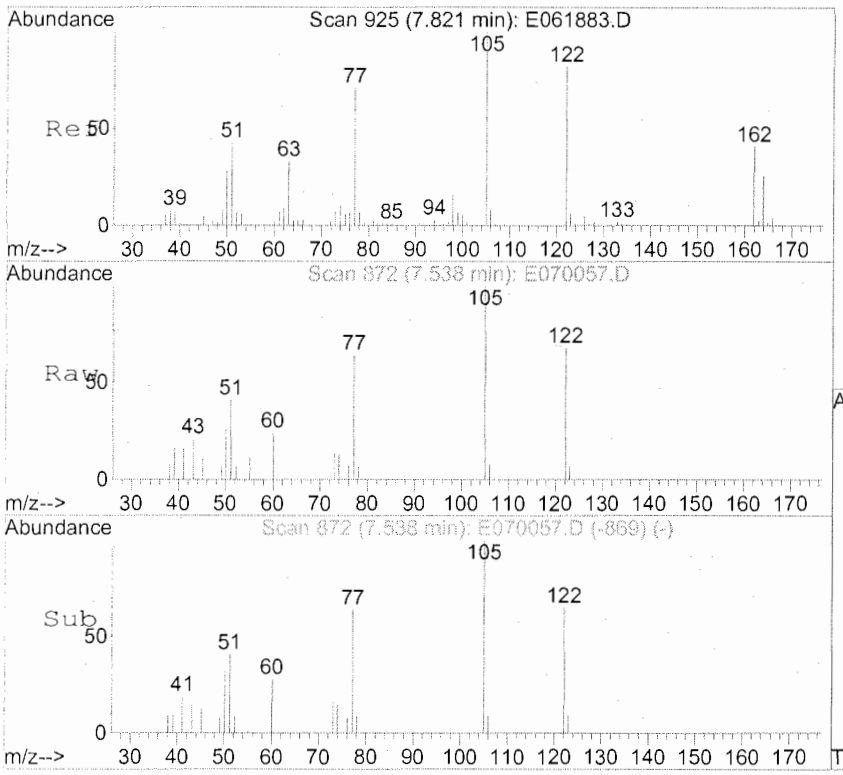


#27
2,4-Dimethylphenol
Concen: 0.51 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.01 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:122 Resp: 2641

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

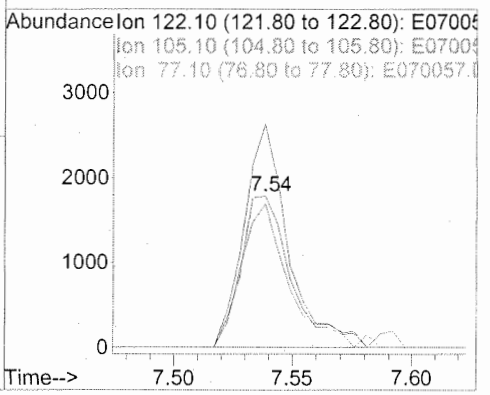


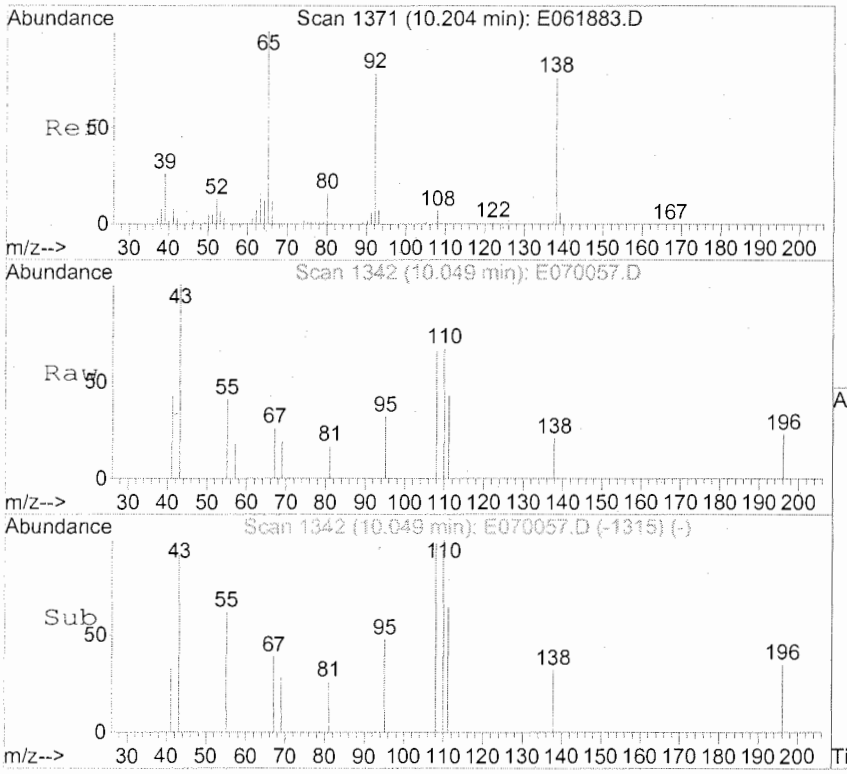


#28
Benzoic acid
Concen: 0.78 mg/L
RT: 7.54 min Scan# 872
Delta R.T. -0.28 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:122 Resp: 2641

Ion	Ratio	Lower	Upper
122	100		
105	129.8	110.2	165.2
77	90.6	89.8	134.8

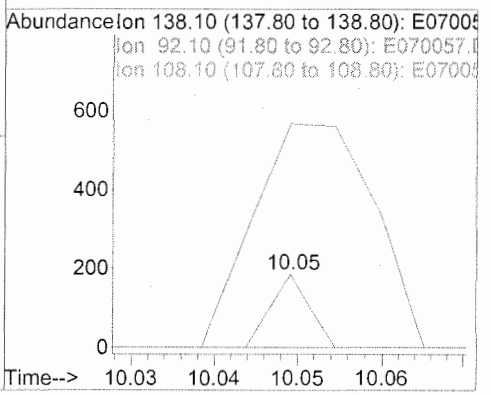


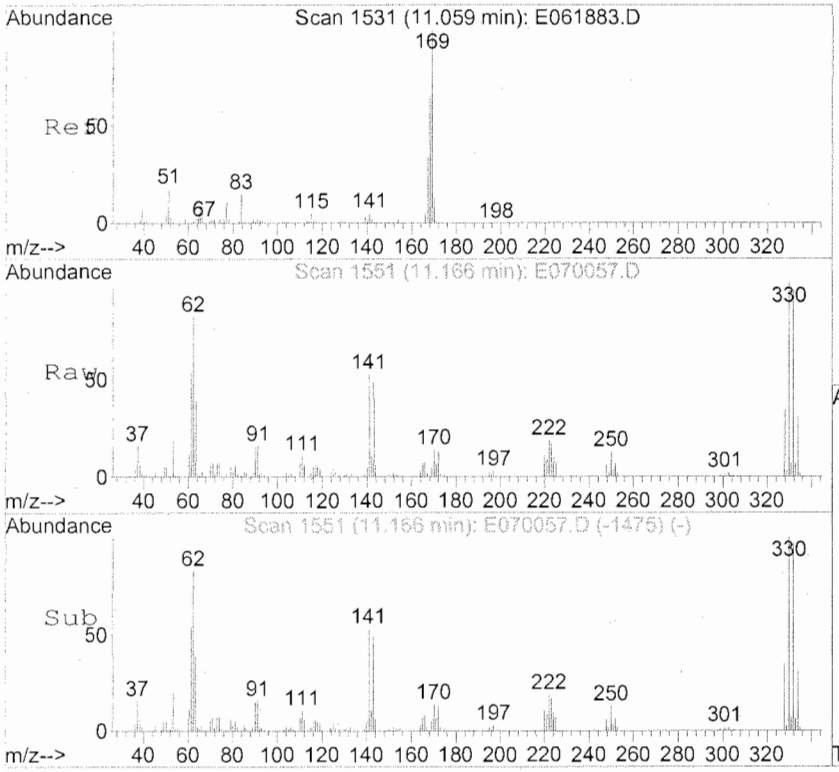


#47
3-Nitroaniline
Concen: 1.80 mg/L
RT: 10.05 min Scan# 1342
Delta R.T. -0.15 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:138 Resp: 59

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	952.5	8.1	12.1#

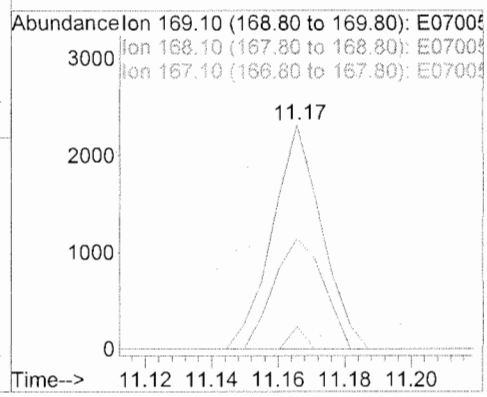


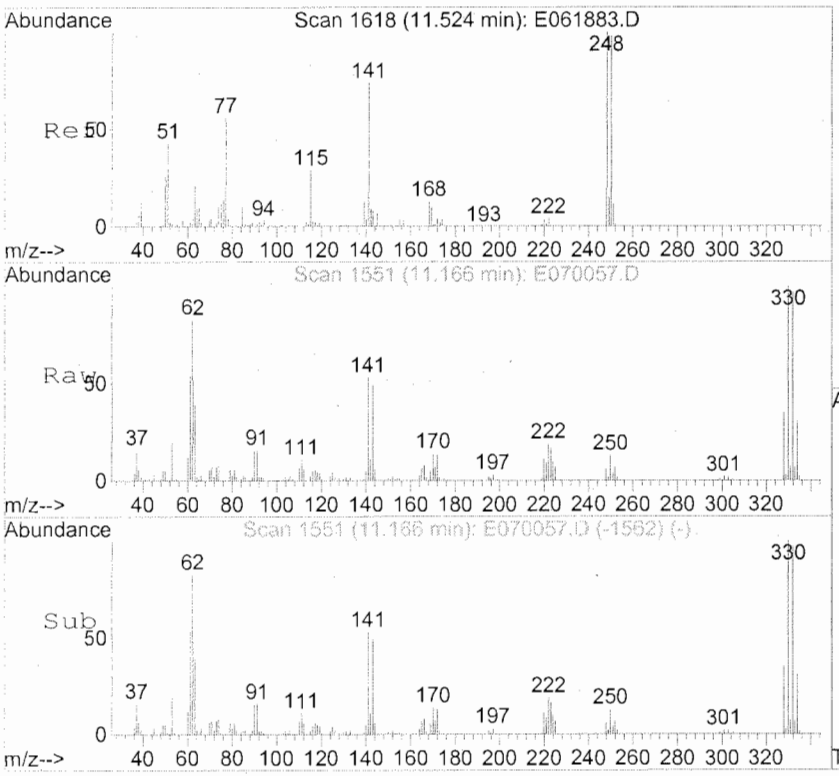


#59
N-Nitrosodiphenylamine
Concen: 0.30 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. 0.11 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:169 Resp: 2400

Ion	Ratio	Lower	Upper
169	100		
168	3.1	50.8	76.2#
167	49.8	27.0	40.4#

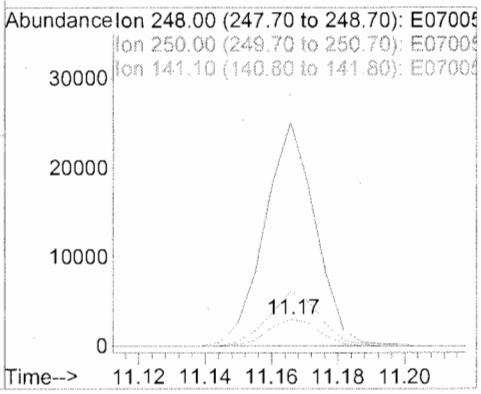


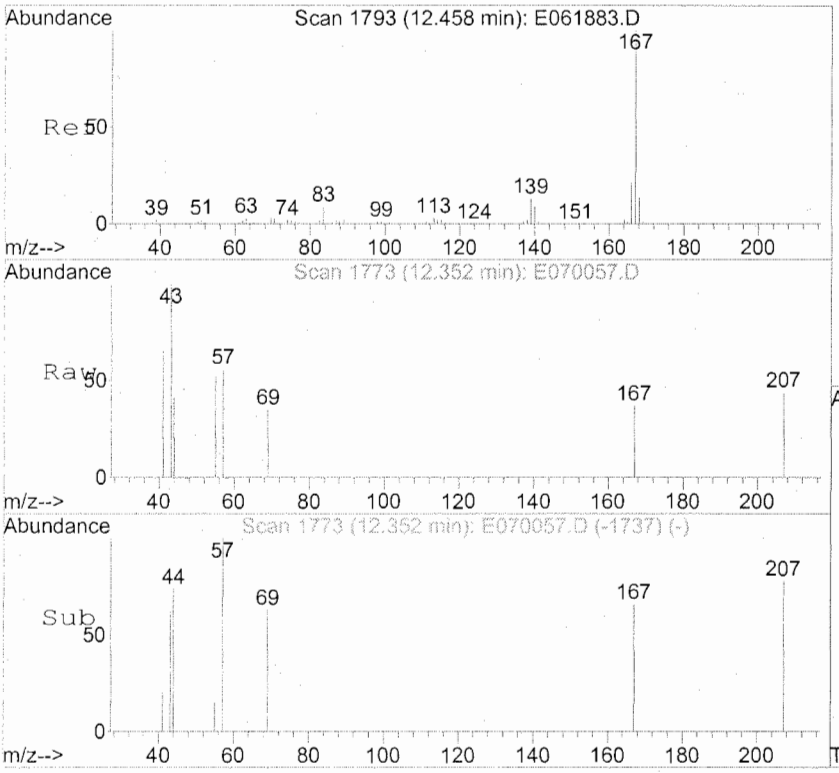


#62
4-Bromophenyl phenyl ether
Concen: 1.09 mg/L
RT: 11.17 min Scan# 1551
Delta R.T. -0.36 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:248 Resp: 3185

Ion	Ratio	Lower	Upper
248	100		
250	205.7	79.0	118.4#
141	842.4	64.3	96.5#

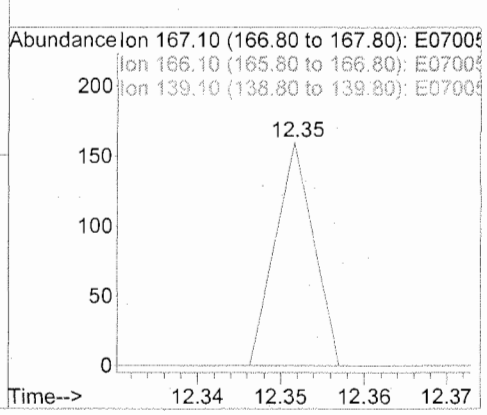


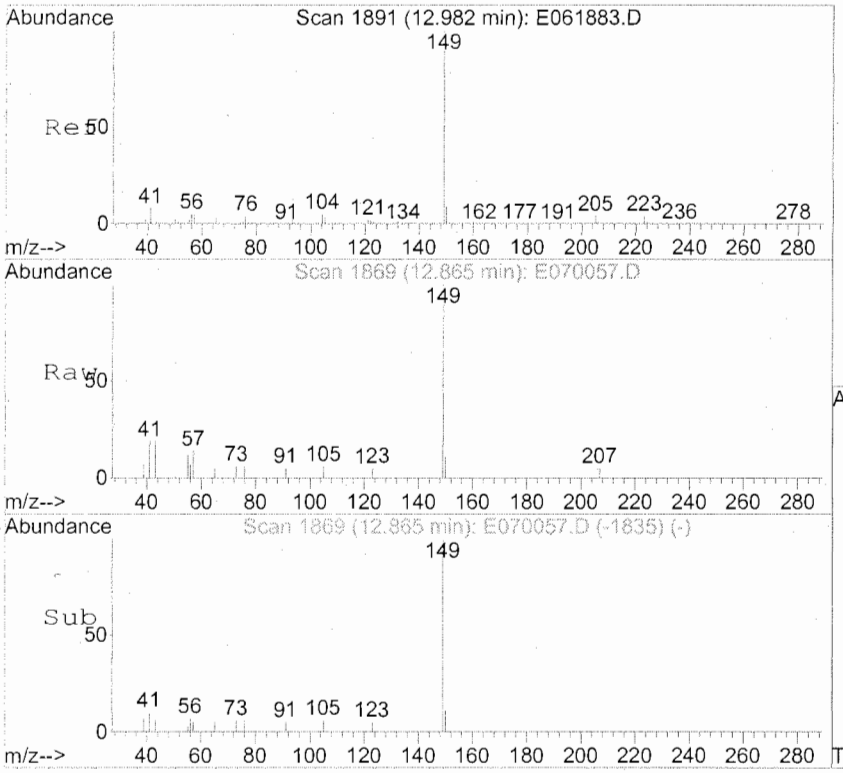


#67
Carbazole
Concen: Below Cal
RT: 12.35 min Scan# 1773
Delta R.T. -0.11 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:167 Resp: 51

Ion	Ratio	Lower	Upper
167	100		
166	0.0	17.2	25.8#
139	0.0	10.6	16.0#

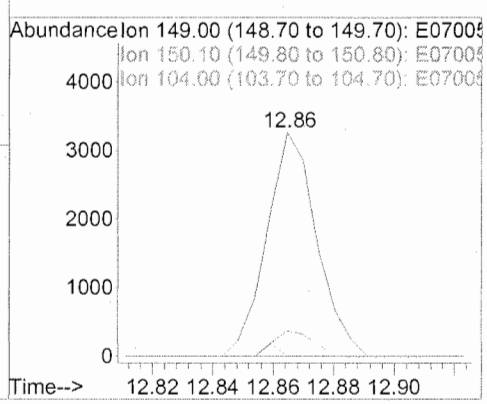


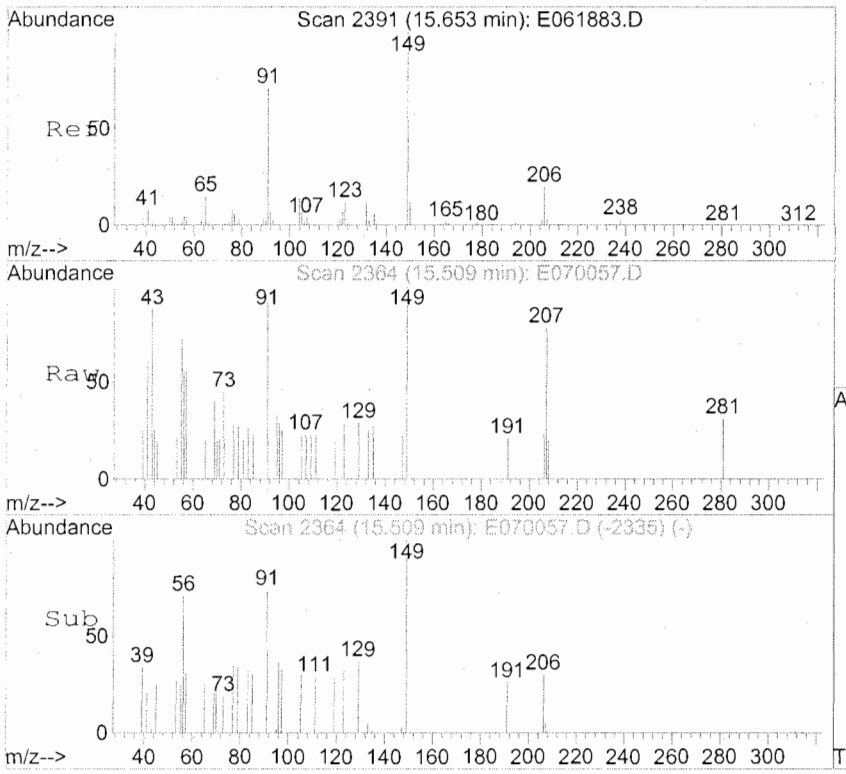


#68
Di-n-butylphthalate
Concen: 0.22 mg/L
RT: 12.86 min Scan# 1869
Delta R.T. -0.12 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:149 Resp: 3752

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.3	10.9
104	1.6	4.6	7.0#

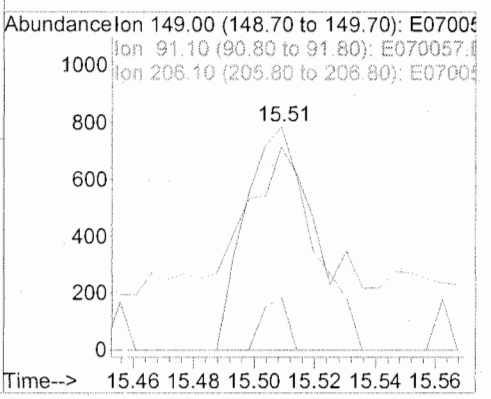


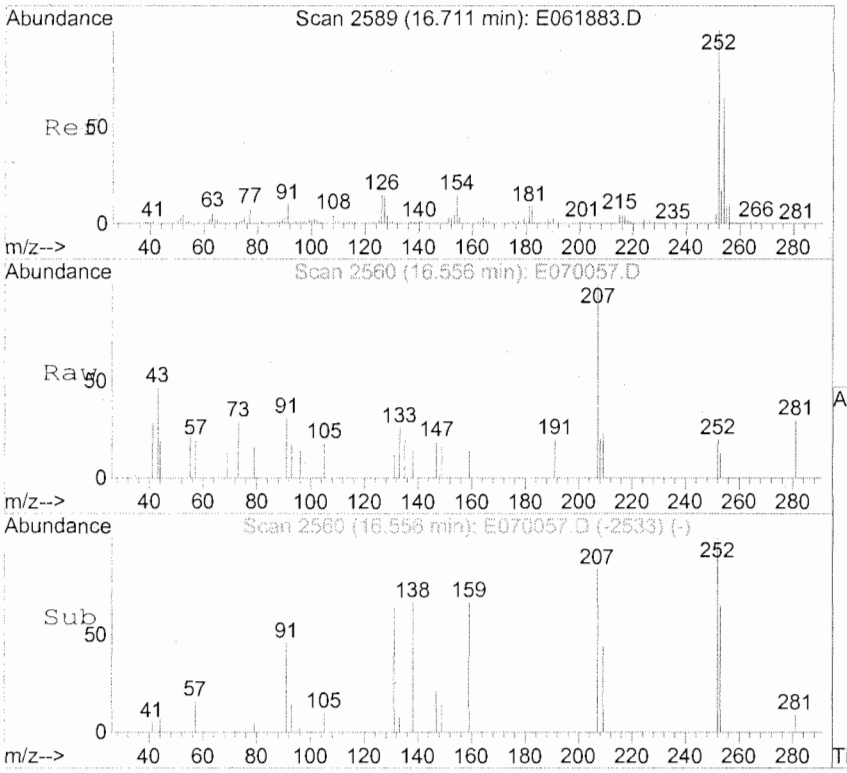


#74
Butylbenzylphthalate
Concen: 0.20 mg/L
RT: 15.51 min Scan# 2364
Delta R.T. -0.14 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:149 Resp: 1213

Ion	Ratio	Lower	Upper
149	100		
91	74.6	59.4	89.0
206	8.9	19.0	28.6#

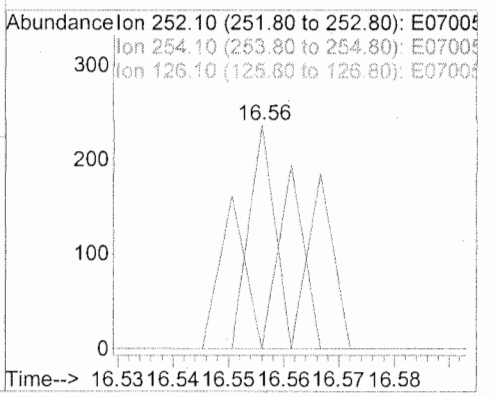


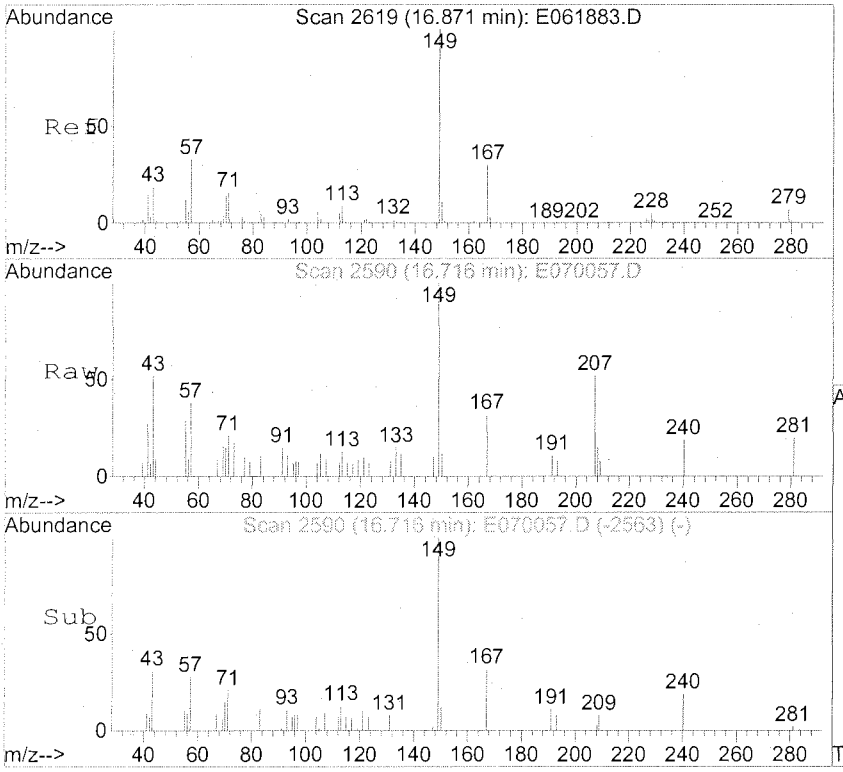


#75
3,3'-Dichlorobenzidine
Concen: 0.33 mg/L
RT: 16.56 min Scan# 2560
Delta R.T. -0.15 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:252 Resp: 135

Ion	Ratio	Lower	Upper
252	100		
254	38.5	52.6	79.0#
126	581.5	8.2	12.2#

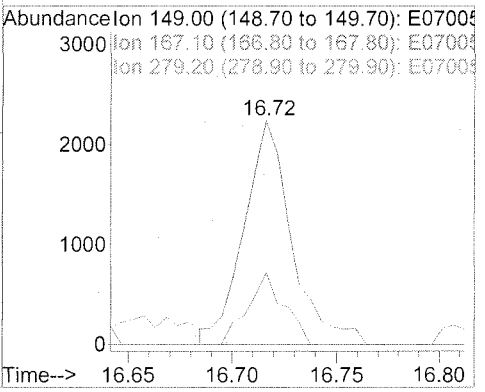


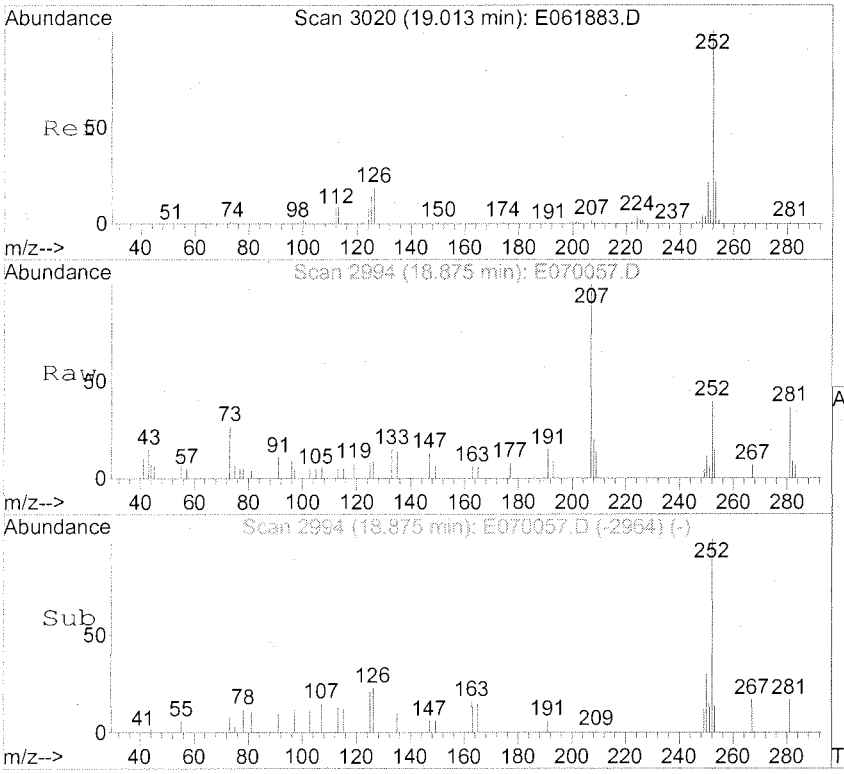


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.46 mg/L
RT: 16.72 min Scan# 2590
Delta R.T. -0.15 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:149 Resp: 3568

Ion	Ratio	Lower	Upper
149	100		
167	24.4	25.0	37.6#
279	0.0	6.2	9.2#

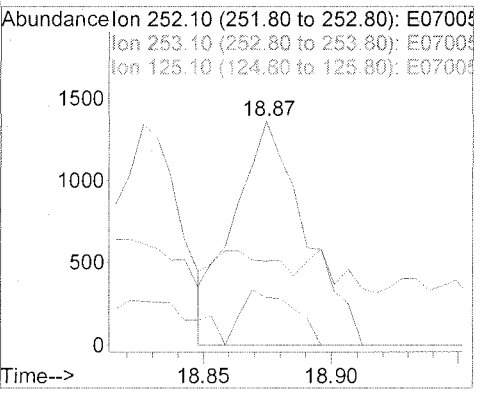


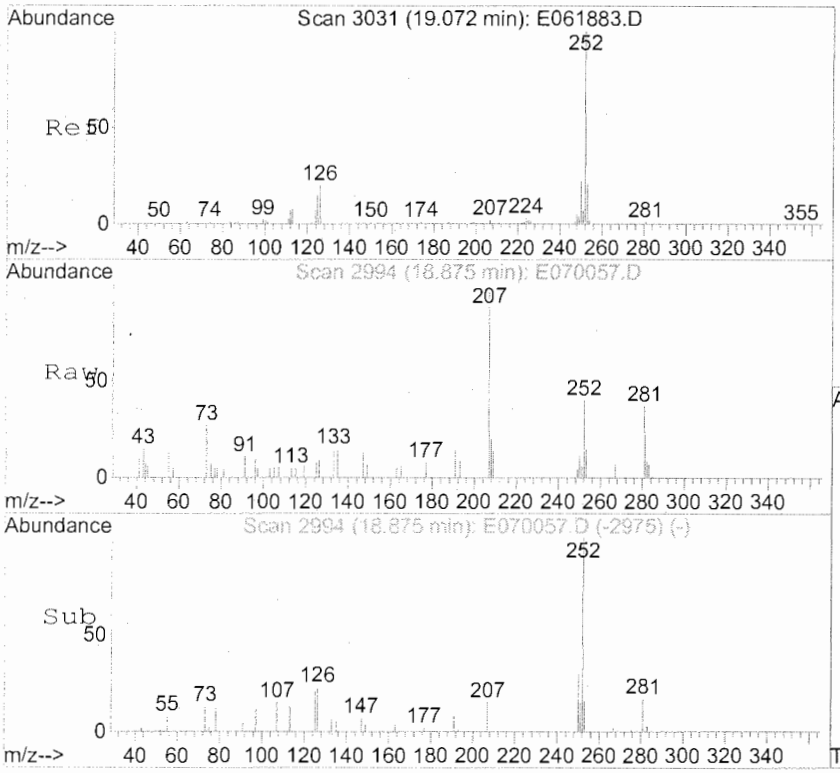


#82
Benzo(b)fluoranthene
Concen: 0.37 mg/L
RT: 18.87 min Scan# 2994
Delta R.T. -0.14 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:252 Resp: 2652

Ion	Ratio	Lower	Upper
252	100		
253	13.4	17.7	26.5#
125	17.7	6.3	9.5#

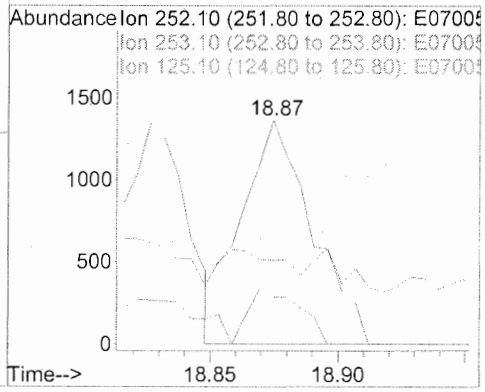


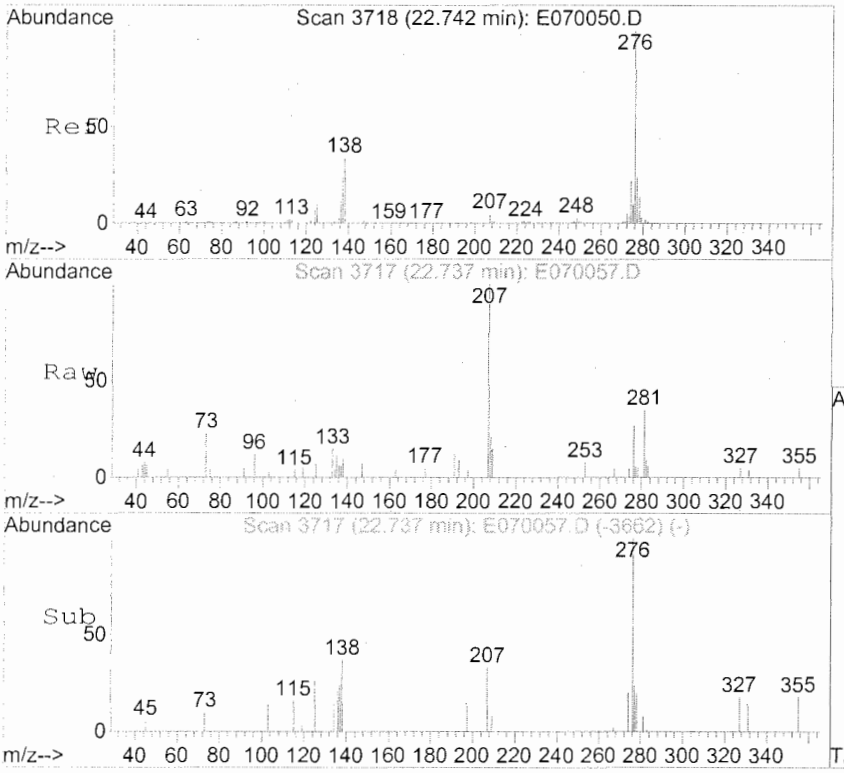


#83
Benzo(k)fluoranthene
Concen: 0.38 mg/L
RT: 18.87 min Scan# 2994
Delta R.T. -0.20 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:252 Resp: 2652

Ion	Ratio	Lower	Upper
252	100		
253	13.4	17.2	25.8#
125	17.7	6.2	9.4#

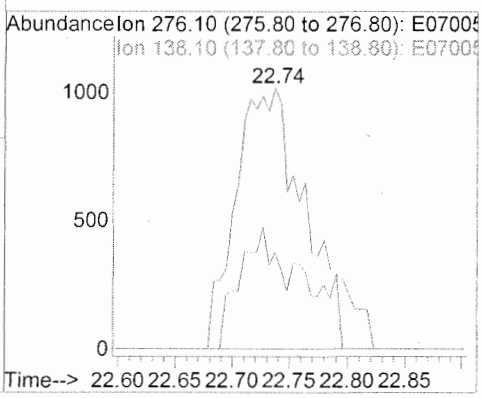


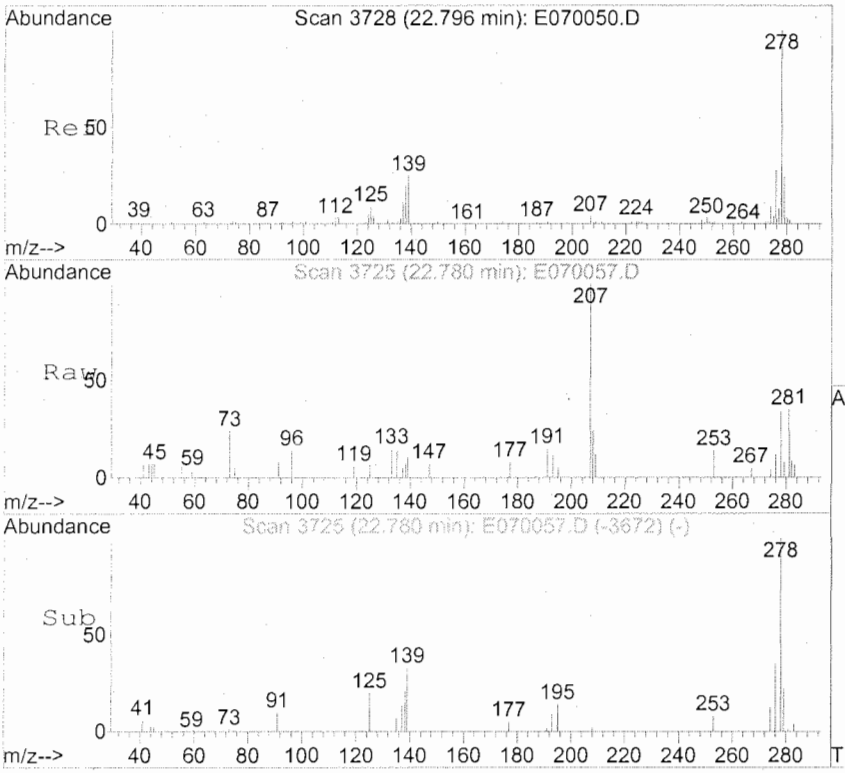


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.98 mg/L
RT: 22.74 min Scan# 3717
Delta R.T. -0.01 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:276 Resp: 4454

Ion	Ratio	Lower	Upper
276	100		
138	25.1	25.4	38.0#

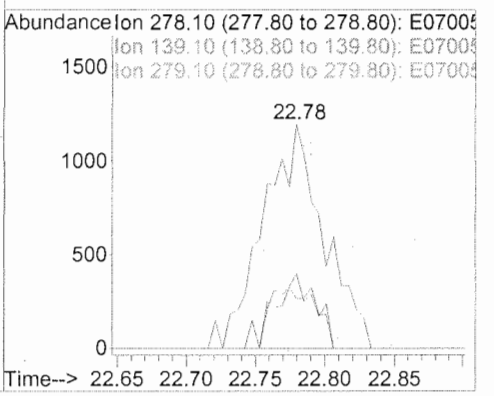


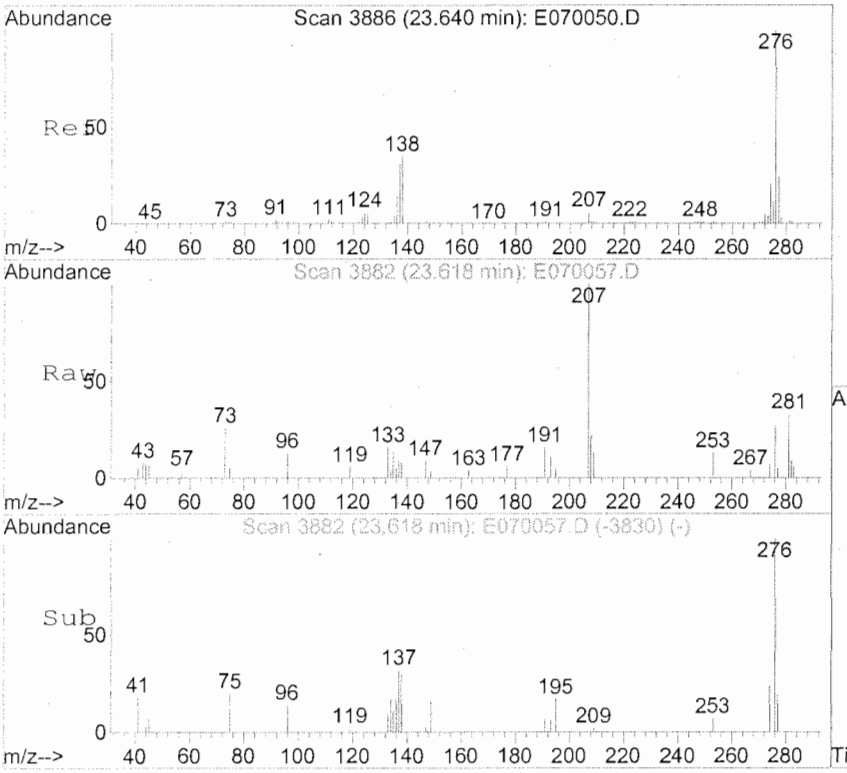


#86
Dibenz(a,h)anthracene
Concen: 0.93 mg/L
RT: 22.78 min Scan# 3725
Delta R.T. -0.02 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:278 Resp: 3641

Ion	Ratio	Lower	Upper
278	100		
139	23.2	18.0	27.0
279	19.7	19.4	29.0

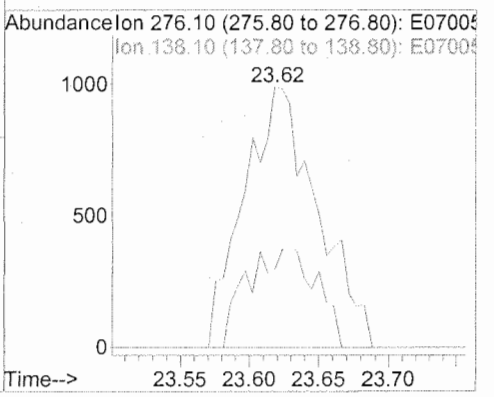




#87
Benzo(g,h,i)perylene
Concen: 0.97 mg/L
RT: 23.62 min Scan# 3882
Delta R.T. -0.02 min
Lab File: E070057.D
Acq: 18 Jan 2007 5:27 pm

Tgt Ion:276 Resp: 3633

Ion	Ratio	Lower	Upper
276	100		
138	35.8	26.2	39.2



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	01/09/2007	**Receive Date:**	01/13/2007

Analysis Lot:	DWG0700130	**Prep Lot:**	DWG0700129	**Report Group:**	D0700056
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76112	**Prep Date:**	01/15/2007		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070047.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070058.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 17:59	**Quant Date:**	01/19/2007 08:50	**Vial:**	11
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-005			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.28	0.00?	152	135143	40.00	OK
2	Naphthalene-d8	7.93	0.00?	136	538762	40.00	OK
3	Acenaphthene-d10	10.17	-0.01?	164	304323	40.00	OK
4	Phenanthrene-d10	12.05	0.00?	188	475035	40.00	OK
5	Chrysene-d12	16.63	-0.02?	240	263575	40.00	OK
6	Perylene-d12	19.70	-0.01?	264	155459	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.67	0.00	0.00	112	177482	41.25	83	23-115	OK	
1	Phenol-d5	5.81	-0.01	0.00	99	242795	43.54	87	23-121	OK	
2	Nitrobenzene-d5	7.03	0.00	0.00	82	223252	49.04	98	42-122	OK	
3	2-Fluorobiphenyl	9.30	-0.01	0.00	172	457629	47.69	95	47-110	OK	
4	2,4,6-Tribromophenol	11.17	0.00	0.00	330	46232	40.58	81	31-112	OK	
5	Terphenyl-d14	14.55	-0.01	0.00	244	353294	47.96	96	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	2.95		0.00	88	94657	47.83	46		
1	N-Nitrosodimethylamine				42	0**d**		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070058.D		**Instrument:** MSE
Acqu Date:	01/18/2007 17:59	**Quant Date:** 01/19/2007 08:50	**Vial:** 11
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0700056-005		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0**d**		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid	7.54	-0.19	-0.02	122	2965	1.03	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0**d**		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0**d**		0.30	U	
3	3-Nitroaniline				138	0**d**		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.71	-0.01	0.00	149	2030	0.2100	0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte deteeted above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E070118\E070058.D			**Instrument:**	MSE
Acqu Date:	01/18/2007 17:59	**Quant Date:**	01/19/2007 08:50	**Vial:**	11
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0700056-005			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate				149	0**d**		0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate				149	0**d**		0.30	U	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0**d**		0.42	U	
6	Benzo(k)fluoranthene				252	0**d**		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1.0 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E070118\E070058.D Vial: 11
Acq On : 18 Jan 2007 5:59 pm Operator: GJ
Sample : D0700056-005 8270W 1/15/07 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 19 08:48:42 2007 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Jan 18 14:16:28 2007
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.28	152	135143	40.00	mg/L	-0.08
22) Naphthalene-d8	7.93	136	538762	40.00	mg/L	-0.09
37) Acenaphthene-d10	10.17	164	304323	40.00	mg/L	-0.09
57) Phenanthrene-d10	12.05	188	475035	40.00	mg/L	-0.11
70) Chrysene-d12	16.63	240	263575	40.00	mg/L	-0.16
80) Perylene-d12	19.70	264	155459	40.00	mg/L	-0.21
System Monitoring Compounds						
6) 2-Fluorophenol	4.67	112	177482	41.25	mg/L	-0.06
Spiked Amount 50.000			Recovery =	82.50%		
7) Phenol-d5	5.81	99	242795	43.54	mg/L	-0.06
Spiked Amount 50.000			Recovery =	87.08%		
23) Nitrobenzene-d5	7.03	82	223252	49.04	mg/L	-0.08
Spiked Amount 50.000			Recovery =	98.08%		
41) 2-Fluorobiphenyl	9.30	172	457629	47.69	mg/L	-0.09
Spiked Amount 50.000			Recovery =	95.38%		
61) 2,4,6-Tribromophenol	11.17	330	46232	40.58	mg/L	-0.10
Spiked Amount 50.000			Recovery =	81.16%		
73) Terphenyl-d14	14.55	244	353294	47.96	mg/L	-0.14
Spiked Amount 50.000			Recovery =	95.92%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.95	88	94657	47.83	mg/L #	82
28) Benzoic acid	7.54	122	2965	1.03	mg/L	83
54) Diethylphthalate	10.71	149	2030	0.21	mg/L	99
67) Carbazole	12.35	167	111	Below Cal	#	43

GJ 1/19/07

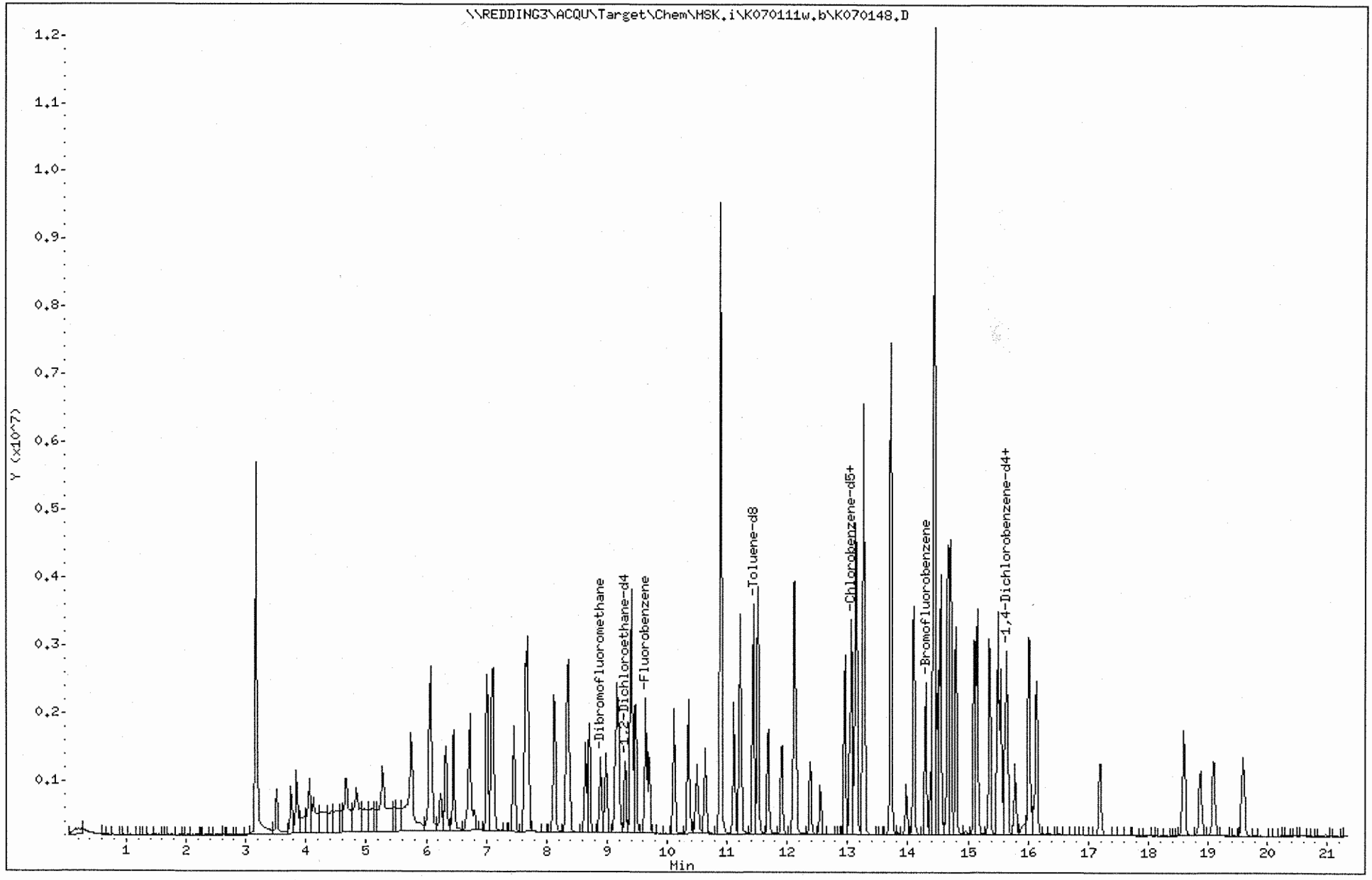
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	14.670	14.665	(0.939)	2942394	20.0000	20.4(AH)
78 1,3,5-Trimethylbenzene	105	14.715	14.724	(0.942)	2747360	20.0000	21.4(Q)
79 4-Chlorotoluene	126	14.804	14.799	(0.948)	751893	20.0000	19.6
80 tert-Butylbenzene	119	15.117	15.111	(0.968)	2311272	20.0000	20.0
81 1,2,4-Trimethylbenzene	105	15.161	15.156	(0.970)	2541128	20.0000	19.9
82 sec-Butylbenzene	105	15.354	15.364	(0.983)	3064410	20.0000	20.3
83 1,3-Dichlorobenzene	146	15.548	15.557	(0.995)	1390296	20.0000	20.0
84 p-Isopropyltoluene	119	15.503	15.513	(0.992)	2591059	20.0000	20.1
85 1,4-Dichlorobenzene	146	15.652	15.662	(1.002)	1397645	20.0000	19.6
86 BenzylChloride	126	14.804	14.799	(0.948)	751893	20.0000	19.6
87 n-Butylbenzene	91	16.009	16.018	(1.025)	2558026	20.0000	20.2
88 1,2-Dichlorobenzene	146	16.143	16.137	(1.033)	1286389	20.0000	19.5
89 1,2-Dibromo-3-chloropropane	75	17.184	17.194	(1.100)	438081	80.0000	75.6(Q)
90 1,2,4-Trichlorobenzene	180	18.597	18.607	(1.190)	947499	20.0000	20.7
91 Hexachlorobutadiene	225	18.880	18.874	(1.209)	423865	20.0000	20.1
92 Naphthalene	128	19.103	19.097	(1.223)	1736414	20.0000	20.6
93 1,2,3-Trichlorobenzene	180	19.594	19.588	(1.254)	824520	20.0000	20.5

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070148.D
Date : 11-JAN-2007 13:31
Client ID: VSTD020
Instrument: MSK.i
Sample Info: VSTD020;VSTD020
Purge Volume: 10.0
Operator: BM
Column phase: DB-624
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070149.D
Lab Smp Id: VSTD040 Client Smp ID: VSTD040
Inj Date : 11-JAN-2007 13:58
Operator : BM Inst ID: MSK.i
Smp Info : VSTD040;VSTD040
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:04 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 13:58 Cal File: K070149.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	9.697	9.697	(1.000)	1423998	10.0000	
* 2	Chlorobenzene-d5	117	13.043	13.043	(1.000)	1037894	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.617	15.616	(1.000)	457301	10.0000	
$ 4	Dibromofluoromethane	113	8.894	8.893	(0.917)	1746881	40.0000	38.1(H)
$ 5	1,2-Dichloroethane-d4	65	9.310	9.310	(0.960)	1554563	40.0000	36.8
$ 6	Toluene-d8	98	11.437	11.437	(0.877)	5046632	40.0000	37.5
$ 7	Bromofluorobenzene	174	14.308	14.308	(0.916)	1589672	40.0000	38.4
8	Dichlorodifluoromethane	85	3.509	3.510	(0.362)	1241880	40.0000	38.4(Q)
9	1,2-Dichlorotetrafluoroethane	85	3.747	3.747	(0.386)	1146515	40.0000	38.8(Q)
10	Chloromethane	50	3.851	3.837	(0.397)	1672990	40.0000	37.7
11	Vinyl chloride	62	4.059	4.059	(0.419)	1424343	40.0000	37.0
12	Bromomethane	94	4.669	4.655	(0.482)	981300	40.0000	41.6(A)
13	Chloroethane	64	4.833	4.833	(0.498)	730214	40.0000	39.3
14	Trichlorofluoromethane	101	5.279	5.265	(0.544)	1467536	40.0000	37.5
15	1,1,2-Trichlorotrifluoroethane	101	6.053	6.053	(0.624)	1464867	40.0000	38.8
16	Acrolein	56	5.889	5.874	(0.607)	36445	400.000	124(Q)
17	1,1-Dichloroethene	96	6.082	6.068	(0.627)	1277686	40.0000	37.1
18	Acetone	43	6.082	6.083	(0.627)	1779938	200.000	171
19	Bromoethane	108	6.320	6.321	(0.652)	1084742	40.0000	37.0
20	Iodomethane	142	6.320	6.321	(0.652)	1959433	40.0000	43.2(A)
21	Carbon disulfide	76	6.454	6.455	(0.666)	5710206	40.0000	38.6
22	Methylene chloride	84	6.722	6.722	(0.693)	1705636	40.0000	37.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	23 tert-Butanol	59	6.796	6.797	(0.701)	970292	400.000	354
	24 Acrylonitrile	53	7.019	7.005	(0.724)	4906847	400.000	387
	25 n-Hexane	57	8.135	8.135	(0.839)	1562039	40.0000	33.7
	26 trans-1,2-Dichloroethene	96	7.124	7.109	(0.735)	1595075	40.0000	37.4
	27 tert-Butylmethylether	73	7.094	7.094	(0.732)	3481142	40.0000	37.4
	28 1,1-Dichloroethane	63	7.644	7.644	(0.788)	3105891	40.0000	38.4
	29 Isopropylether	45	7.689	7.689	(0.793)	7456695	40.0000	38.6
	30 Vinyl acetate	43	7.644	7.644	(0.788)	6826509	40.0000	37.9
	31 tert-Butylethylether	59	8.135	8.135	(0.839)	5260285	40.0000	38.5
	32 2,2-Dichloropropane	77	8.373	8.372	(0.863)	1983659	40.0000	36.9(Q)
	33 cis-1,2-Dichloroethene	96	8.358	8.358	(0.862)	1801041	40.0000	38.5
M	34 1,2-Dichloroethene (total)	96				3396116	80.0000	75.9
	35 2-Butanone	43	8.313	8.314	(0.857)	3183205	200.000	191
	36 Bromochloromethane	128	8.641	8.641	(0.891)	853683	40.0000	38.5
	37 Chloroform	83	8.700	8.701	(0.897)	2838401	40.0000	37.4
	38 1,1,1-Trichloroethane	97	8.983	8.983	(0.926)	2050088	40.0000	38.9(Q)
	39 Isobutyl alcohol	43	9.132	9.132	(0.942)	1308661	1000.00	899(Q)
	40 1,1-Dichloropropene	75	9.161	9.162	(0.945)	2120268	40.0000	39.1
	41 Carbon tetrachloride	119	9.191	9.191	(0.948)	1675107	40.0000	39.3
	42 tert-Amylmethylether	73	9.474	9.474	(0.977)	3977728	40.0000	37.5
	43 Benzene	78	9.414	9.414	(0.971)	6109518	40.0000	38.5
	44 1,2-Dichloroethane	62	9.399	9.385	(0.969)	1980614	40.0000	37.2
	45 Trichloroethene	95	10.113	10.114	(1.043)	1625635	40.0000	39.7
	46 1,2-Dichloropropane	63	10.351	10.352	(1.067)	1814502	40.0000	38.1
	47 1,4-Dioxane	88	10.470	10.471	(1.080)	255492	1000.00	776(Q)
	48 Dibromomethane	93	10.500	10.500	(1.083)	1040542	40.0000	37.7
	49 Bromodichloromethane	83	10.634	10.634	(1.097)	2061400	40.0000	38.4
	50 2-Chloroethylvinyl ether	63	10.902	10.902	(1.124)	9313467	400.000	397
	51 cis-1,3-Dichloropropene	75	11.110	11.110	(1.146)	2614893	40.0000	39.2
	52 4-Methyl-2-pentanone	43	11.229	11.229	(1.158)	7224904	200.000	192
	53 Toluene	92	11.511	11.512	(0.883)	3714804	40.0000	38.5
	54 trans-1,3-Dichloropropene	75	11.690	11.690	(0.896)	2166269	40.0000	37.6
	55 1,1,2-Trichloroethane	83	11.913	11.913	(0.913)	1044801	40.0000	36.0
	56 Tetrachloroethene	166	12.151	12.151	(0.932)	1455546	40.0000	37.5
	57 1,3-Dichloropropane	76	12.106	12.107	(0.928)	2011398	40.0000	36.9
	58 2-Hexanone	43	12.121	12.122	(0.929)	4773396	200.000	177
	59 Dibromochloromethane	129	12.389	12.389	(0.950)	1538001	40.0000	38.8
	60 1,2-Dibromoethane	107	12.553	12.553	(0.962)	1377797	40.0000	37.3
	61 1-Chlorohexane	91	12.954	12.954	(0.993)	2181589	40.0000	37.8
	62 Chlorobenzene	112	13.073	13.073	(1.002)	4195126	40.0000	38.6(Q)
	63 1,1,1,2-Tetrachloroethane	131	13.133	13.133	(1.007)	1348327	40.0000	37.8
	64 Ethylbenzene	91	13.147	13.148	(1.008)	6778301	40.0000	39.5
	65 m-,p-Xylene	106	13.266	13.267	(1.017)	5024679	80.0000	78.0
	66 o-Xylene	106	13.713	13.713	(1.051)	2485370	40.0000	39.3
M	67 Xylene (total)	106				7510049	120.000	117
	68 Styrene	104	13.728	13.728	(1.052)	4508192	40.0000	39.5
	69 Bromoform	173	13.966	13.966	(1.071)	955467	40.0000	38.0
	70 Isopropylbenzene	105	14.099	14.100	(1.081)	6441197	40.0000	40.2(A)
	71 1,1,2,2-Tetrachloroethane	83	14.382	14.382	(0.921)	1517801	40.0000	36.4
	72 Bromobenzene	156	14.516	14.501	(0.930)	1645044	40.0000	38.0
	73 1,2,3-Trichloropropane	110	14.471	14.472	(0.927)	336535	40.0000	35.6(Q)
	74 n-Propylbenzene	120	14.546	14.546	(0.931)	1596995	40.0000	39.0
	75 trans-1,4-Dichloro-2-butene	53	14.442	14.442	(0.925)	3352860	40.0000	41.0(A)
	76 2-Chlorotoluene	126	14.694	14.695	(0.941)	1465088	40.0000	38.1

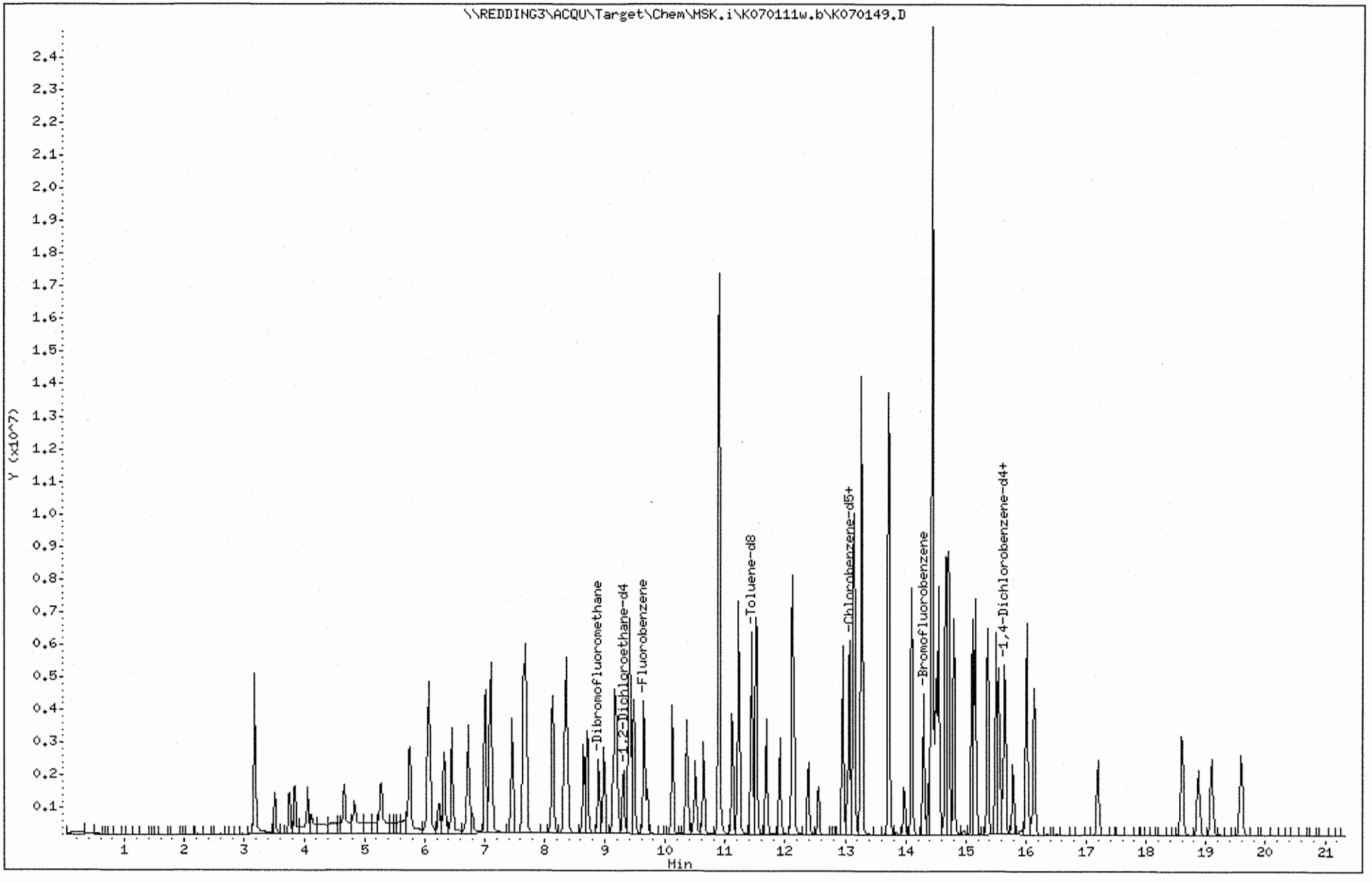
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	14.665	14.665	(0.939)	6459942	40.0000	41.5(AH)
78 1,3,5-Trimethylbenzene	105	14.724	14.724	(0.943)	5087441	40.0000	37.7(Q)
79 4-Chlorotoluene	126	14.798	14.799	(0.948)	1530233	40.0000	38.2
80 tert-Butylbenzene	119	15.111	15.111	(0.968)	4774255	40.0000	39.5
81 1,2,4-Trimethylbenzene	105	15.155	15.156	(0.970)	5258939	40.0000	39.3
82 sec-Butylbenzene	105	15.364	15.364	(0.984)	6322089	40.0000	39.9
83 1,3-Dichlorobenzene	146	15.557	15.557	(0.996)	2864178	40.0000	39.4
84 p-Isopropyltoluene	119	15.512	15.513	(0.993)	5316726	40.0000	39.3
85 1,4-Dichlorobenzene	146	15.661	15.662	(1.003)	2887221	40.0000	38.7
86 BenzylChloride	126	14.798	14.799	(0.948)	1530233	40.0000	38.2
87 n-Butylbenzene	91	16.018	16.018	(1.026)	5228022	40.0000	39.4
88 1,2-Dichlorobenzene	146	16.137	16.137	(1.033)	2587326	40.0000	37.4
89 1,2-Dibromo-3-chloropropane	75	17.193	17.194	(1.101)	887522	160.000	146(Q)
90 1,2,4-Trichlorobenzene	180	18.606	18.607	(1.191)	1928398	40.0000	40.2(A)
91 Hexachlorobutadiene	225	18.874	18.874	(1.209)	863777	40.0000	39.1
92 Naphthalene	128	19.097	19.097	(1.223)	3546759	40.0000	40.2(A)
93 1,2,3-Trichlorobenzene	180	19.588	19.588	(1.254)	1664107	40.0000	39.5

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070149.D
Date : 11-JAN-2007 13:58
Client ID: VSTD040
Sample Info: VSTD040;VSTD040
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: BM
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070150.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 11-JAN-2007 14:25
Operator : BM Inst ID: MSK.i
Smp Info : VSTD100;VSTD100
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:04 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	9.697	9.697	(1.000)	1384832	10.0000	
* 2	Chlorobenzene-d5	117	13.043	13.043	(1.000)	1020577	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.616	15.616	(1.000)	444298	10.0000	
$ 4	Dibromofluoromethane	113	8.893	8.893	(0.917)	4393234	100.000	98.4(AH)
$ 5	1,2-Dichloroethane-d4	65	9.310	9.310	(0.960)	3903523	100.000	95.1(A)
$ 6	Toluene-d8	98	11.437	11.437	(0.877)	12734480	100.000	96.2(A)
$ 7	Bromofluorobenzene	174	14.308	14.308	(0.916)	4002207	100.000	99.6(A)
8	Dichlorodifluoromethane	85	3.509	3.510	(0.362)	3016678	100.000	96.0(AQ)
9	1,2-Dichlorotetrafluoroethane	85	3.747	3.747	(0.386)	2744723	100.000	95.5(AQ)
10	Chloromethane	50	3.836	3.837	(0.396)	4201567	100.000	97.3(A)
11	Vinyl chloride	62	4.059	4.059	(0.419)	3438553	100.000	91.8(A)
12	Bromomethane	94	4.654	4.655	(0.480)	2443336	100.000	106(A)
13	Chloroethane	64	4.833	4.833	(0.498)	1731306	100.000	95.9(A)
14	Trichlorofluoromethane	101	5.264	5.265	(0.543)	3383306	100.000	88.8(A)
15	1,1,2-Trichlorotrifluoroethane	101	6.052	6.053	(0.624)	3473447	100.000	94.6(A)
16	Acrolein	56	5.874	5.874	(0.606)	179673	1000.00	626(AQ)
17	1,1-Dichloroethene	96	6.067	6.068	(0.626)	3044182	100.000	90.9(A)
18	Acetone	43	6.082	6.083	(0.627)	4389300	500.000	434(A)
19	Bromoethane	108	6.320	6.321	(0.652)	2633253	100.000	92.4(A)
20	Iodomethane	142	6.320	6.321	(0.652)	4555655	100.000	103(A)
21	Carbon disulfide	76	6.454	6.455	(0.666)	13841844	100.000	96.1(A)
22	Methylene chloride	84	6.722	6.722	(0.693)	4051128	100.000	92.5(A)

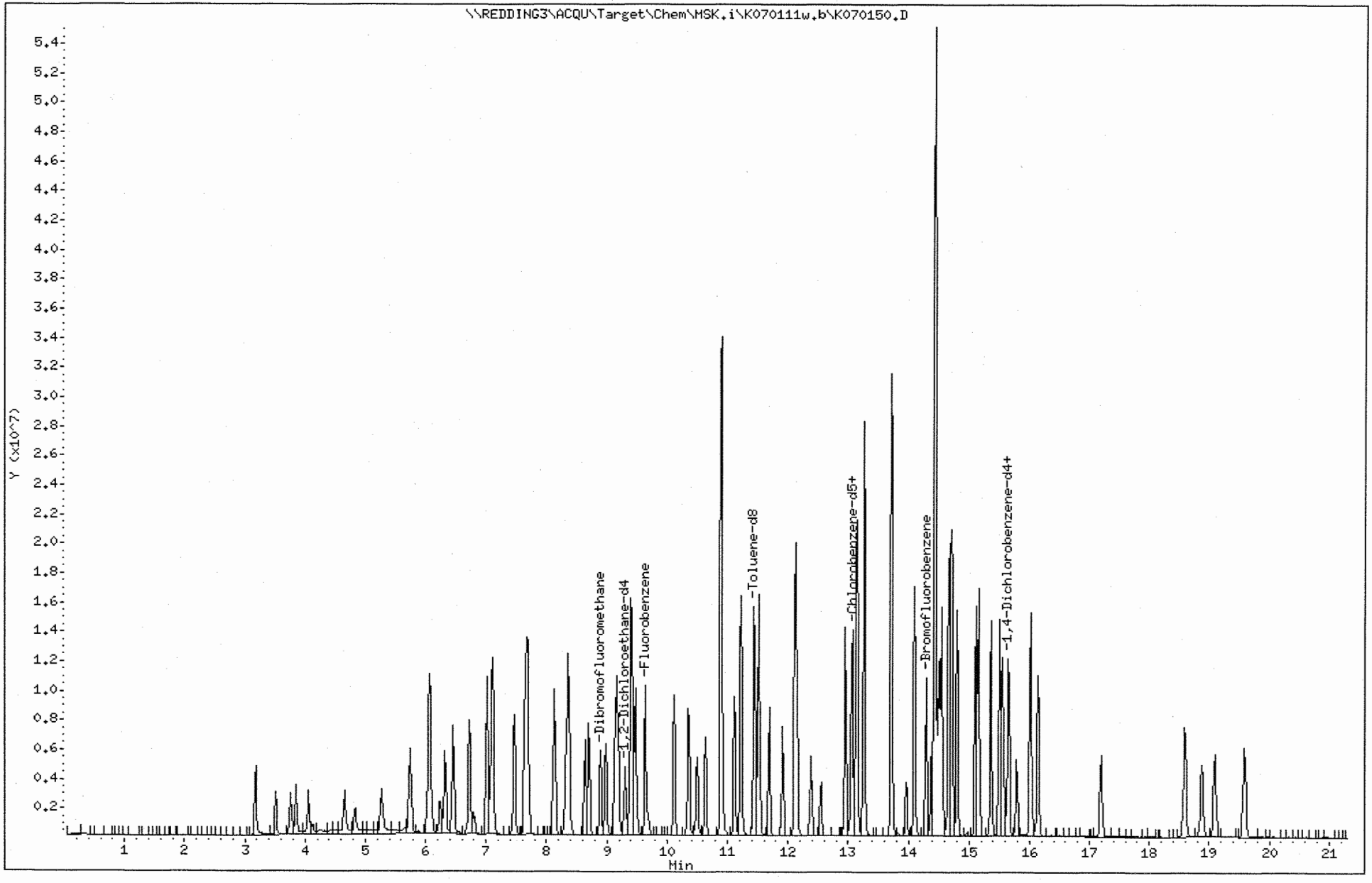
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 tert-Butanol	59	6.796	6.797	(0.701)	2476947	1000.00	929(A)
	24 Acrylonitrile	53	7.004	7.005	(0.722)	11698291	1000.00	949(A)
	25 n-Hexane	57	8.135	8.135	(0.839)	3683976	100.000	81.8(A)
	26 trans-1,2-Dichloroethene	96	7.109	7.109	(0.733)	3753736	100.000	90.5(A)
	27 tert-Butylmethylether	73	7.094	7.094	(0.732)	8315520	100.000	91.9(A)
	28 1,1-Dichloroethane	63	7.644	7.644	(0.788)	7328719	100.000	93.3(A)
	29 Isopropylether	45	7.689	7.689	(0.793)	17632059	100.000	94.0(A)
	30 Vinyl acetate	43	7.644	7.644	(0.788)	16210018	100.000	92.6(A)
	31 tert-Butylethylether	59	8.135	8.135	(0.839)	12559350	100.000	94.5(A)
	32 2,2-Dichloropropane	77	8.373	8.372	(0.863)	4630911	100.000	88.6(AQ)
	33 cis-1,2-Dichloroethene	96	8.358	8.358	(0.862)	4190524	100.000	92.1(A)
M	34 1,2-Dichloroethene (total)	96				7944260	200.000	183
	35 2-Butanone	43	8.313	8.314	(0.857)	7811335	500.000	482(A)
	36 Bromochloromethane	128	8.641	8.641	(0.891)	1999221	100.000	92.7(A)
	37 Chloroform	83	8.700	8.701	(0.897)	6738809	100.000	91.3(A)
	38 1,1,1-Trichloroethane	97	8.983	8.983	(0.926)	4919825	100.000	96.0(AQ)
	39 Isobutyl alcohol	43	9.131	9.132	(0.942)	3367457	2500.00	2380(AQ)
	40 1,1-Dichloropropene	75	9.161	9.162	(0.945)	5021419	100.000	95.2(A)
	41 Carbon tetrachloride	119	9.191	9.191	(0.948)	4000692	100.000	96.5(A)
	42 tert-Amylmethylether	73	9.473	9.474	(0.977)	9702920	100.000	94.1(A)
	43 Benzene	78	9.414	9.414	(0.971)	14602248	100.000	94.6(A)
	44 1,2-Dichloroethane	62	9.384	9.385	(0.968)	4756159	100.000	91.9(A)
	45 Trichloroethene	95	10.113	10.114	(1.043)	3963725	100.000	100(A)
	46 1,2-Dichloropropane	63	10.351	10.352	(1.067)	4373925	100.000	94.5(A)
	47 1,4-Dioxane	88	10.470	10.471	(1.080)	653494	2500.00	2040(AQ)
	48 Dibromomethane	93	10.500	10.500	(1.083)	2483372	100.000	92.6(A)
	49 Bromodichloromethane	83	10.634	10.634	(1.097)	4996450	100.000	95.6(A)
	50 2-Chloroethylvinyl ether	63	10.901	10.902	(1.124)	17609000	1000.00	772(A)
	51 cis-1,3-Dichloropropene	75	11.110	11.110	(1.146)	6373314	100.000	98.3(A)
	52 4-Methyl-2-pentanone	43	11.229	11.229	(1.158)	16523134	500.000	453(A)
	53 Toluene	92	11.511	11.512	(0.883)	9146501	100.000	96.5(A)
	54 trans-1,3-Dichloropropene	75	11.690	11.690	(0.896)	5353756	100.000	94.4(A)
	55 1,1,2-Trichloroethane	83	11.913	11.913	(0.913)	2590691	100.000	90.7(A)
	56 Tetrachloroethene	166	12.151	12.151	(0.932)	3562307	100.000	93.4(A)
	57 1,3-Dichloropropane	76	12.106	12.107	(0.928)	4996851	100.000	93.3(A)
	58 2-Hexanone	43	12.121	12.122	(0.929)	11764942	500.000	444(A)
	59 Dibromochloromethane	129	12.389	12.389	(0.950)	3831479	100.000	98.3(A)
	60 1,2-Dibromoethane	107	12.552	12.553	(0.962)	3452301	100.000	95.1(A)
	61 1-Chlorohexane	91	12.954	12.954	(0.993)	5354923	100.000	94.3(A)
	62 Chlorobenzene	112	13.073	13.073	(1.002)	10194701	100.000	95.3(AQ)
	63 1,1,1,2-Tetrachloroethane	131	13.132	13.133	(1.007)	3316663	100.000	94.7(A)
	64 Ethylbenzene	91	13.147	13.148	(1.008)	14630371	100.000	86.7(A)
	65 m-,p-Xylene	106	13.266	13.267	(1.017)	12014395	200.000	190(AQ)
	66 o-Xylene	106	13.713	13.713	(1.051)	5814420	100.000	93.4(A)
M	67 Xylene (total)	106				17828815	300.000	283
	68 Styrene	104	13.727	13.728	(1.052)	10555369	100.000	94.1(A)
	69 Bromoform	173	13.965	13.966	(1.071)	2365331	100.000	95.6(A)
	70 Isopropylbenzene	105	14.099	14.100	(1.081)	14255719	100.000	90.4(A)
	71 1,1,2,2-Tetrachloroethane	83	14.382	14.382	(0.921)	3706117	100.000	91.5(A)
	72 Bromobenzene	156	14.501	14.501	(0.929)	4001768	100.000	95.2(A)
	73 1,2,3-Trichloropropane	110	14.471	14.472	(0.927)	811059	100.000	88.4(AQ)
	74 n-Propylbenzene	120	14.545	14.546	(0.931)	3854048	100.000	96.9(AQ)
	75 trans-1,4-Dichloro-2-butene	53	14.441	14.442	(0.925)	7914670	100.000	99.7(A)
	76 2-Chlorotoluene	126	14.694	14.695	(0.941)	3448277	100.000	92.4(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	14.664	14.665	(0.939)	14106946	100.000	91.6(AH)
78 1,3,5-Trimethylbenzene	105	14.724	14.724	(0.943)	12177596	100.000	93.0(AQ)
79 4-Chlorotoluene	126	14.798	14.799	(0.948)	3606035	100.000	92.6(A)
80 tert-Butylbenzene	119	15.111	15.111	(0.968)	11270187	100.000	96.0(A)
81 1,2,4-Trimethylbenzene	105	15.155	15.156	(0.970)	12326390	100.000	94.9(A)
82 sec-Butylbenzene	105	15.364	15.364	(0.984)	14440138	100.000	93.8(A)
83 1,3-Dichlorobenzene	146	15.557	15.557	(0.996)	6763165	100.000	95.7(A)
84 p-Isopropyltoluene	119	15.512	15.513	(0.993)	12751566	100.000	96.9(A)
85 1,4-Dichlorobenzene	146	15.661	15.662	(1.003)	6964119	100.000	96.0(A)
86 BenzylChloride	126	14.798	14.799	(0.948)	3606035	100.000	92.6(A)
87 n-Butylbenzene	91	16.018	16.018	(1.026)	12584913	100.000	97.7(A)
88 1,2-Dichlorobenzene	146	16.137	16.137	(1.033)	6349975	100.000	94.5(A)
89 1,2-Dibromo-3-chloropropane	75	17.193	17.194	(1.101)	2158926	400.000	366(AQ)
90 1,2,4-Trichlorobenzene	180	18.606	18.607	(1.191)	4658615	100.000	99.9(A)
91 Hexachlorobutadiene	225	18.874	18.874	(1.209)	2113044	100.000	98.5(A)
92 Naphthalene	128	19.097	19.097	(1.223)	8581573	100.000	100(A)
93 1,2,3-Trichlorobenzene	180	19.588	19.588	(1.254)	4098957	100.000	100(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070150.D
Date : 11-JAN-2007 14:25
Client ID: VSTD100
Instrument: MSK.i
Sample Info: VSTD100;VSTD100
Purge Volume: 10.0
Operator: BM
Column phase: DB-624
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/11/2007

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK
File ID: K070152

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Dichlorodifluoromethane (CFC 12)	10.0	10.26	0.227	0.233	2.6	NA	+/- 25.0	AverageRF	
Chloromethane	10.0	10.38	0.312	0.324	3.8	NA	+/- 25.0	AverageRF	
Vinyl Chloride	10.0	9.723	0.270	0.263	-2.8	NA	+/- 25.0	AverageRF	
Bromomethane	10.0	10.05	0.166	0.167	NA	0.5	+/- 25.0	Linear	
Chloroethane	10.0	10.27	0.130	0.134	2.7	NA	+/- 25.0	AverageRF	
Trichlorofluoromethane (CFC 11)	10.0	10.20	0.275	0.281	2.0	NA	+/- 25.0	AverageRF	
1,1,2-Trichlorotrifluoroethane	10.0	10.44	0.265	0.277	4.4	NA	+/- 25.0	AverageRF	
1,1-Dichloroethene (1,1-DCE)	10.0	9.992	0.242	0.242	-0.1	NA	+/- 25.0	AverageRF	
Acetone	50.0	49.50	0.073	0.066	NA	-1.0	+/- 25.0	Linear	
Carbon Disulfide	10.0	10.13	1.040	1.054	1.3	NA	+/- 25.0	AverageRF	
Dichloromethane (Methylene Chloride)	10.0	10.00	0.316	0.316	0.0	NA	+/- 25.0	AverageRF	
trans-1,2-Dichloroethene	10.0	9.901	0.299	0.296	-1.0	NA	+/- 25.0	AverageRF	
Methyl tert-Butyl Ether	10.0	9.883	0.653	0.646	-1.2	NA	+/- 25.0	AverageRF	
1,1-Dichloroethane (1,1-DCA)	10.0	10.29	0.567	0.584	2.8	NA	+/- 25.0	AverageRF	
Vinyl Acetate	10.0	10.00	1.263	1.264	0.0	NA	+/- 25.0	AverageRF	
2,2-Dichloropropane	10.0	10.59	0.378	0.400	5.8	NA	+/- 25.0	AverageRF	
cis-1,2-Dichloroethene	10.0	10.06	0.329	0.331	0.6	NA	+/- 25.0	AverageRF	
2-Butanone (MEK)	50.0	46.14	0.117	0.108	-7.7	NA	+/- 25.0	AverageRF	
Bromochloromethane	10.0	10.17	0.156	0.158	1.7	NA	+/- 25.0	AverageRF	
Chloroform	10.0	10.00	0.533	0.533	0.0	NA	+/- 25.0	AverageRF	
1,1,1-Trichloroethane (TCA)	10.0	10.14	0.370	0.375	1.4	NA	+/- 25.0	AverageRF	
1,1-Dichloropropene	10.0	10.42	0.381	0.397	4.2	NA	+/- 25.0	AverageRF	
Carbon Tetrachloride	10.0	10.19	0.299	0.305	1.9	NA	+/- 25.0	AverageRF	
Benzene	10.0	9.934	1.114	1.107	-0.6	NA	+/- 25.0	AverageRF	
1,2-Dichloroethane (EDC)	10.0	9.839	0.374	0.368	-1.6	NA	+/- 25.0	AverageRF	
Trichloroethene (TCE)	10.0	9.701	0.312	0.302	-3.0	NA	+/- 25.0	AverageRF	
1,2-Dichloropropane	10.0	9.904	0.334	0.331	-1.0	NA	+/- 25.0	AverageRF	
Dibromomethane	10.0	9.770	0.194	0.189	-2.3	NA	+/- 25.0	AverageRF	
Bromodichloromethane	10.0	9.842	0.377	0.371	-1.6	NA	+/- 25.0	AverageRF	
cis-1,3-Dichloropropene	10.0	10.19	0.468	0.477	1.9	NA	+/- 25.0	AverageRF	
4-Methyl-2-pentanone (MIBK)	50.0	47.77	0.263	0.252	-4.4	NA	+/- 25.0	AverageRF	
Toluene	10.0	10.08	0.929	0.937	0.8	NA	+/- 25.0	AverageRF	
trans-1,3-Dichloropropene	10.0	9.696	0.556	0.539	-3.0	NA	+/- 25.0	AverageRF	
1,1,2-Trichloroethane	10.0	10.01	0.280	0.262	NA	0.1	+/- 25.0	Linear	
Tetrachloroethene (PCE)	10.0	9.829	0.374	0.367	-1.7	NA	+/- 25.0	AverageRF	
1,3-Dichloropropane	10.0	9.796	0.525	0.514	-2.0	NA	+/- 25.0	AverageRF	
2-Hexanone	50.0	49.50	0.259	0.238	NA	-1.0	+/- 25.0	Linear	
Dibromochloromethane	10.0	9.987	0.382	0.381	-0.1	NA	+/- 25.0	AverageRF	
1,2-Dibromoethane (EDB)	10.0	9.845	0.356	0.350	-1.5	NA	+/- 25.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/11/2007

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK
File ID: K070152

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chlorobenzene	10.0	9.757	1.048	1.023	-2.4	NA	+/- 25.0	AverageRF	
1,1,1,2-Tetrachloroethane	10.0	10.10	0.343	0.347	1.0	NA	+/- 25.0	AverageRF	
Ethylbenzene	10.0	10.14	1.653	1.676	1.4	NA	+/- 25.0	AverageRF	
Xylenes, Total	30.0	29.76	0.617	0.612	-0.8	NA	+/- 25.0	AverageRF	
Styrene	10.0	9.818	1.099	1.079	-1.8	NA	+/- 25.0	AverageRF	
Bromoform	10.0	9.574	0.243	0.232	-4.3	NA	+/- 25.0	AverageRF	
Isopropylbenzene	10.0	9.942	1.544	1.536	-0.6	NA	+/- 25.0	AverageRF	
1,1,2,2-Tetrachloroethane	10.0	9.733	0.912	0.825	NA	-2.7	+/- 25.0	Linear	
Bromobenzene	10.0	9.484	0.946	0.897	-5.2	NA	+/- 25.0	AverageRF	
1,2,3-Trichloropropane	10.0	9.769	0.206	0.185	NA	-2.3	+/- 25.0	Linear	
n-Propylbenzene	10.0	9.895	0.895	0.886	-1.0	NA	+/- 25.0	AverageRF	
2-Chlorotoluene	10.0	9.685	0.840	0.814	-3.2	NA	+/- 25.0	AverageRF	
1,3,5-Trimethylbenzene	10.0	9.442	2.949	2.784	-5.6	NA	+/- 25.0	AverageRF	
4-Chlorotoluene	10.0	9.594	0.877	0.841	-4.1	NA	+/- 25.0	AverageRF	
tert-Butylbenzene	10.0	9.692	2.643	2.562	-3.1	NA	+/- 25.0	AverageRF	
1,2,4-Trimethylbenzene	10.0	9.692	2.922	2.832	-3.1	NA	+/- 25.0	AverageRF	
sec-Butylbenzene	10.0	9.656	3.465	3.346	-3.4	NA	+/- 25.0	AverageRF	
1,3-Dichlorobenzene	10.0	9.713	1.590	1.544	-2.9	NA	+/- 25.0	AverageRF	
4-Isopropyltoluene	10.0	9.613	2.960	2.846	-3.9	NA	+/- 25.0	AverageRF	
1,4-Dichlorobenzene	10.0	9.853	1.632	1.608	-1.5	NA	+/- 25.0	AverageRF	
n-Butylbenzene	10.0	9.697	2.900	2.812	-3.0	NA	+/- 25.0	AverageRF	
1,2-Dichlorobenzene	10.0	9.420	1.512	1.424	-5.8	NA	+/- 25.0	AverageRF	
1,2-Dibromo-3-chloropropane (DBCP)	40.0	40.34	0.133	0.125	NA	0.8	+/- 25.0	Linear	
1,2,4-Trichlorobenzene	10.0	9.610	1.049	1.008	-3.9	NA	+/- 25.0	AverageRF	
Hexachlorobutadiene	10.0	9.547	0.483	0.461	-4.5	NA	+/- 25.0	AverageRF	
Naphthalene	10.0	9.345	1.931	1.804	-6.6	NA	+/- 25.0	AverageRF	
1,2,3-Trichlorobenzene	10.0	9.350	0.921	0.861	-6.5	NA	+/- 25.0	AverageRF	
Dibromofluoromethane	N/A	N/A	0.322	0.335	0.0	NA	+/- 25.0	AverageRF	
1,2-Dichloroethane-d4	N/A	N/A	0.296	0.290	0.0	NA	+/- 25.0	AverageRF	
Toluene-d8	N/A	N/A	1.297	1.307	0.0	NA	+/- 25.0	AverageRF	
4-Bromofluorobenzene	N/A	N/A	0.905	0.909	0.0	NA	+/- 25.0	AverageRF	

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070152.D
Lab Smp Id: QCALTSTD Client Smp ID: QCALTSTD
Inj Date : 11-JAN-2007 15:18
Operator : BM Inst ID: MSK.i
Smp Info : QCALTSTD;QCALTSTD
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:05 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	9.699	9.699	(1.000)	1302286	10.0000	
*	2 Chlorobenzene-d5	117	13.045	13.045	(1.000)	941043	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.618	15.618	(1.000)	412603	10.0000	
$	4 Dibromofluoromethane	113	8.895	8.895	(0.917)	435764	10.0000	10.4
$	5 1,2-Dichloroethane-d4	65	9.312	9.312	(0.960)	377673	10.0000	9.78
$	6 Toluene-d8	98	11.439	11.439	(0.877)	1230041	10.0000	10.1
$	7 Bromofluorobenzene	174	14.310	14.310	(0.916)	374910	10.0000	10.0
	8 Dichlorodifluoromethane	85	3.511	3.511	(0.362)	303185	10.0000	10.3(Q)
	9 1,2-Dichlorotetrafluoroethane	85	3.749	3.749	(0.387)	285752	10.0000	10.6(Q)
	10 Chloromethane	50	3.838	3.838	(0.396)	421510	10.0000	10.4
	11 Vinyl chloride	62	4.061	4.061	(0.419)	342397	10.0000	9.72
	12 Bromomethane	94	4.671	4.671	(0.482)	217729	10.0000	10.0
	13 Chloroethane	64	4.835	4.835	(0.499)	174310	10.0000	10.3
	14 Trichlorofluoromethane	101	5.266	5.266	(0.543)	365321	10.0000	10.2
	15 1,1,2-Trichlorotrifluoroethane	101	6.055	6.055	(0.624)	360554	10.0000	10.4
	16 Acrolein	56	5.876	5.876	(0.606)	7693	100.000	28.5(Q)
	17 1,1-Dichloroethene	96	6.084	6.084	(0.627)	314612	10.0000	9.99
	18 Acetone	43	6.084	6.084	(0.627)	431069	50.0000	49.5
	19 Bromoethane	108	6.322	6.322	(0.652)	267865	10.0000	10.0
	20 Iodomethane	142	6.322	6.322	(0.652)	503613	10.0000	12.1
	21 Carbon disulfide	76	6.456	6.456	(0.666)	1372212	10.0000	10.1
	22 Methylene chloride	84	6.724	6.724	(0.693)	412036	10.0000	10.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
23	tert-Butanol	59	6.798	6.798	(0.701)	232510	100.000	100
24	Acrylonitrile	53	7.021	7.021	(0.724)	1137494	100.000	98.1
25	n-Hexane	57	8.137	8.137	(0.839)	377783	10.0000	10.1
26	trans-1,2-Dichloroethene	96	7.111	7.111	(0.733)	386029	10.0000	9.90
27	tert-Butylmethylether	73	7.096	7.096	(0.732)	840666	10.0000	9.88
28	1,1-Dichloroethane	63	7.646	7.646	(0.788)	759908	10.0000	10.3
29	Isopropylether	45	7.691	7.691	(0.793)	1804610	10.0000	10.2
30	Vinyl acetate	43	7.646	7.646	(0.788)	1645981	10.0000	10.0
31	tert-Butylethylether	59	8.137	8.137	(0.839)	1247858	10.0000	9.98
32	2,2-Dichloropropane	77	8.375	8.375	(0.864)	520464	10.0000	10.6(Q)
33	cis-1,2-Dichloroethene	96	8.360	8.360	(0.862)	430646	10.0000	10.1
M 34	1,2-Dichloroethene (total)	96				816675	20.0000	20.0
35	2-Butanone	43	8.315	8.315	(0.857)	703293	50.0000	46.1
36	Bromochloromethane	128	8.643	8.643	(0.891)	206276	10.0000	10.2
37	Chloroform	83	8.702	8.702	(0.897)	694456	10.0000	10.0
38	1,1,1-Trichloroethane	97	8.985	8.985	(0.926)	488806	10.0000	10.1(Q)
39	Isobutyl alcohol	43	9.133	9.133	(0.942)	290450	250.000	240(Q)
40	1,1-Dichloropropene	75	9.163	9.163	(0.945)	516877	10.0000	10.4
41	Carbon tetrachloride	119	9.193	9.193	(0.948)	397283	10.0000	10.2
42	tert-Amylmethylether	73	9.476	9.476	(0.977)	944195	10.0000	9.74
43	Benzene	78	9.416	9.416	(0.971)	1441385	10.0000	9.93
44	1,2-Dichloroethane	62	9.386	9.386	(0.968)	478669	10.0000	9.84
45	Trichloroethene	95	10.115	10.115	(1.043)	393714	10.0000	9.70
46	1,2-Dichloropropane	63	10.353	10.353	(1.067)	431135	10.0000	9.90
47	1,4-Dioxane	88	10.487	10.487	(1.081)	65224	250.000	257(Q)
48	Dibromomethane	93	10.502	10.502	(1.083)	246363	10.0000	9.77
49	Bromodichloromethane	83	10.636	10.636	(1.097)	483429	10.0000	9.84
50	2-Chloroethylvinyl ether	63	10.903	10.903	(1.124)	2200104	100.000	102
51	cis-1,3-Dichloropropene	75	11.112	11.112	(1.146)	621075	10.0000	10.2
52	4-Methyl-2-pentanone	43	11.231	11.231	(1.158)	1639030	50.0000	47.8
53	Toluene	92	11.513	11.513	(0.883)	881663	10.0000	10.1
54	trans-1,3-Dichloropropene	75	11.692	11.692	(0.896)	506919	10.0000	9.70
55	1,1,2-Trichloroethane	83	11.915	11.915	(0.913)	246465	10.0000	10.0
56	Tetrachloroethene	166	12.153	12.153	(0.932)	345575	10.0000	9.83
57	1,3-Dichloropropane	76	12.108	12.108	(0.928)	483529	10.0000	9.80
58	2-Hexanone	43	12.123	12.123	(0.929)	1121939	50.0000	49.5
59	Dibromochloromethane	129	12.391	12.391	(0.950)	358801	10.0000	9.99
60	1,2-Dibromoethane	107	12.554	12.554	(0.962)	329389	10.0000	9.84
61	1-Chlorohexane	91	12.956	12.956	(0.993)	513481	10.0000	9.80
62	Chlorobenzene	112	13.075	13.075	(1.002)	962337	10.0000	9.76(Q)
63	1,1,1,2-Tetrachloroethane	131	13.135	13.135	(1.007)	326192	10.0000	10.1
64	Ethylbenzene	91	13.149	13.149	(1.008)	1577389	10.0000	10.1
65	m-,p-Xylene	106	13.268	13.268	(1.017)	1162545	20.0000	19.9
66	o-Xylene	106	13.715	13.715	(1.051)	564634	10.0000	9.84
M 67	Xylene (total)	106				1727179	30.0000	29.8
68	Styrene	104	13.729	13.729	(1.052)	1015151	10.0000	9.82
69	Bromoform	173	13.967	13.967	(1.071)	218493	10.0000	9.57
70	Isopropylbenzene	105	14.101	14.101	(1.081)	1445042	10.0000	9.94
71	1,1,2,2-Tetrachloroethane	83	14.384	14.384	(0.921)	340370	10.0000	9.73
72	Bromobenzene	156	14.503	14.503	(0.929)	370242	10.0000	9.48
73	1,2,3-Trichloropropane	110	14.473	14.473	(0.927)	76223	10.0000	9.77(Q)
74	n-Propylbenzene	120	14.548	14.548	(0.931)	365492	10.0000	9.90
75	trans-1,4-Dichloro-2-butene	53	14.443	14.443	(0.925)	797325	10.0000	10.8(A)
76	2-Chlorotoluene	126	14.696	14.696	(0.941)	335679	10.0000	9.68

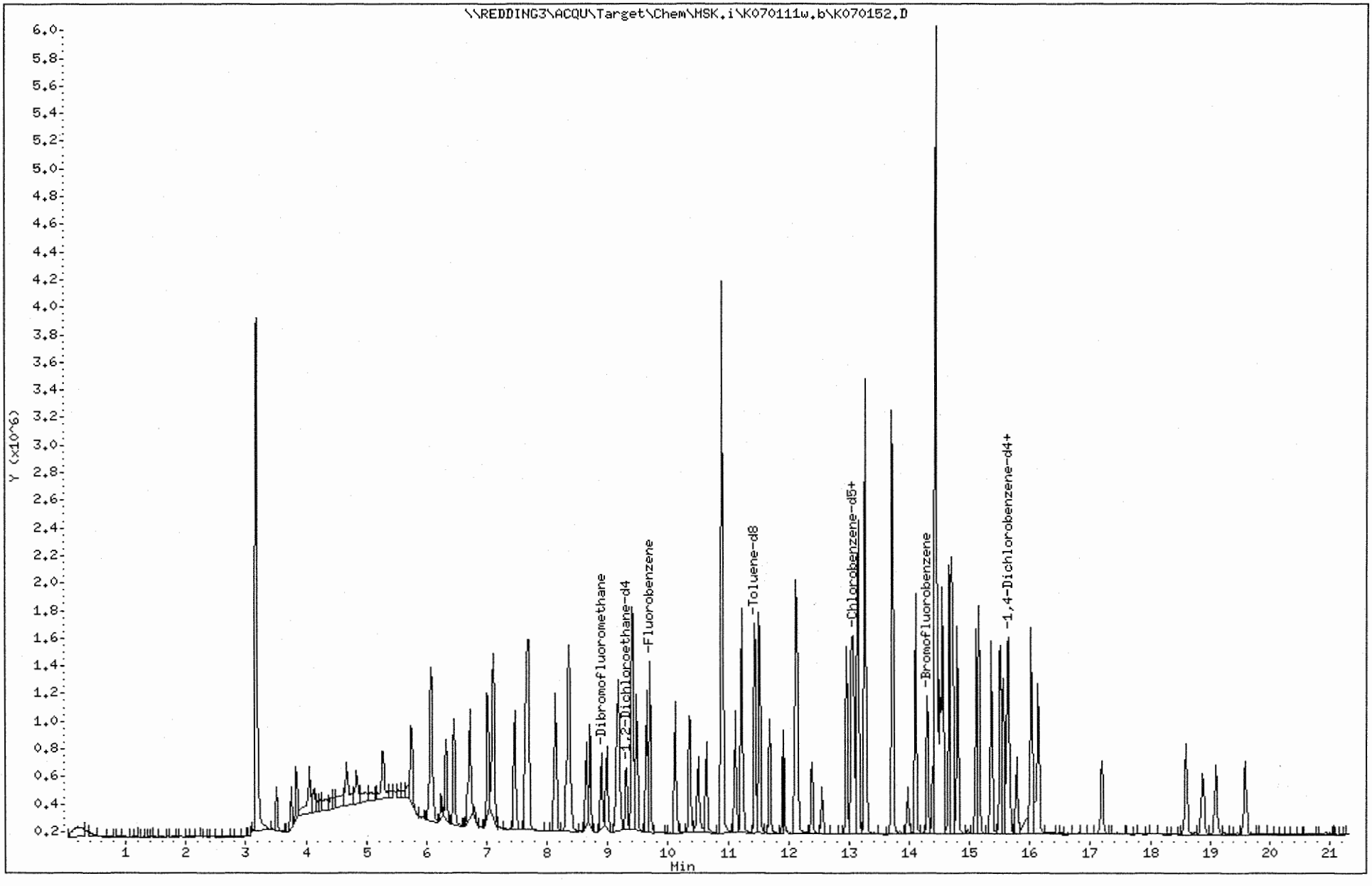
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77	4-Ethyltoluene	105	14.667	14.667	(0.939)	1446038	10.0000	10.1(A)
78	1,3,5-Trimethylbenzene	105	14.726	14.726	(0.943)	1148794	10.0000	9.44(Q)
79	4-Chlorotoluene	126	14.800	14.800	(0.948)	347037	10.0000	9.59
80	tert-Butylbenzene	119	15.113	15.113	(0.968)	1056957	10.0000	9.69
81	1,2,4-Trimethylbenzene	105	15.157	15.157	(0.970)	1168658	10.0000	9.69
82	sec-Butylbenzene	105	15.366	15.366	(0.984)	1380699	10.0000	9.66
83	1,3-Dichlorobenzene	146	15.559	15.559	(0.996)	637229	10.0000	9.71
84	p-Isopropyltoluene	119	15.514	15.514	(0.993)	1174186	10.0000	9.61
85	1,4-Dichlorobenzene	146	15.663	15.663	(1.003)	663636	10.0000	9.85
86	BenzylChloride	126	14.800	14.800	(0.948)	347037	10.0000	9.59
87	n-Butylbenzene	91	16.020	16.020	(1.026)	1160381	10.0000	9.70
88	1,2-Dichlorobenzene	146	16.139	16.139	(1.033)	587571	10.0000	9.42
89	1,2-Dibromo-3-chloropropane	75	17.195	17.195	(1.101)	206291	40.0000	40.3(Q)
90	1,2,4-Trichlorobenzene	180	18.608	18.608	(1.191)	416100	10.0000	9.61
91	Hexachlorobutadiene	225	18.876	18.876	(1.209)	190202	10.0000	9.55
92	Naphthalene	128	19.099	19.099	(1.223)	744469	10.0000	9.34
93	1,2,3-Trichlorobenzene	180	19.590	19.590	(1.254)	355135	10.0000	9.35

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070152.D
Date : 11-JAN-2007 15:18
Client ID: QCALTSTD
Sample Info: QCALTSTD;QCALTSTD
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: BM
Column diameter: 0.32



Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/16/2007

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK
File ID: K070344

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
	Dichlorodifluoromethane (CFC 12)	10.0	10.34	0.01	0.227	0.235	3.4	NA	+/- 40.0	AverageRF	
*	Chloromethane	10.0	9.284	0.10	0.312	0.289	-7.2	NA	+/- 40.0	AverageRF	
#	Vinyl Chloride	10.0	9.156	0.01	0.270	0.248	-8.4	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	10.32	0.01	0.166	0.172	NA	3.2	+/- 40.0	Linear	
	Chloroethane	10.0	9.956	0.01	0.130	0.130	-0.4	NA	+/- 40.0	AverageRF	
	Trichlorofluoromethane (CFC 11)	10.0	10.77	0.01	0.275	0.296	7.7	NA	+/- 40.0	AverageRF	
	1,1,2-Trichlorotrifluoroethane	10.0	10.26	0.01	0.265	0.272	2.6	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene (1,1-DCE)	10.0	9.216	0.01	0.242	0.223	-7.8	NA	+/- 20.0	AverageRF	
	Acetone	50.0	48.55	0.01	0.073	0.065	NA	-2.9	+/- 40.0	Linear	
	Carbon Disulfide	10.0	9.453	0.01	1.040	0.983	-5.5	NA	+/- 40.0	AverageRF	
	Dichloromethane (Methylene Chloride)	10.0	9.572	0.01	0.316	0.303	-4.3	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	9.437	0.01	0.299	0.283	-5.6	NA	+/- 40.0	AverageRF	
	Methyl tert-Butyl Ether	10.0	8.530	0.01	0.653	0.557	-14.7	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane (1,1-DCA)	10.0	10.03	0.10	0.567	0.569	0.3	NA	+/- 40.0	AverageRF	
	Vinyl Acetate	10.0	9.187	0.01	1.263	1.161	-8.1	NA	+/- 40.0	AverageRF	
	2,2-Dichloropropane	10.0	8.777	0.01	0.378	0.331	-12.2	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	9.679	0.01	0.329	0.318	-3.2	NA	+/- 40.0	AverageRF	
	2-Butanone (MEK)	50.0	42.43	0.01	0.117	0.099	-15.1	NA	+/- 40.0	AverageRF	
	Bromochloromethane	10.0	9.223	0.01	0.156	0.144	-7.8	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	10.12	0.01	0.533	0.539	1.2	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane (TCA)	10.0	10.14	0.01	0.370	0.375	1.4	NA	+/- 40.0	AverageRF	
	1,1-Dichloropropene	10.0	10.08	0.01	0.381	0.384	0.8	NA	+/- 40.0	AverageRF	
	Carbon Tetrachloride	10.0	9.433	0.01	0.299	0.282	-5.7	NA	+/- 40.0	AverageRF	
	Benzene	10.0	9.441	0.01	1.114	1.052	-5.6	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane (EDC)	10.0	9.940	0.01	0.374	0.371	-0.6	NA	+/- 40.0	AverageRF	
	Trichloroethene (TCE)	10.0	9.392	0.01	0.312	0.293	-6.1	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	9.706	0.01	0.334	0.324	-2.9	NA	+/- 20.0	AverageRF	
	Dibromomethane	10.0	9.760	0.01	0.194	0.189	-2.4	NA	+/- 40.0	AverageRF	
	Bromodichloromethane	10.0	9.646	0.01	0.377	0.364	-3.5	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	9.201	0.01	0.468	0.431	-8.0	NA	+/- 40.0	AverageRF	
	4-Methyl-2-pentanone (MIBK)	50.0	43.82	0.01	0.263	0.231	-12.4	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	10.17	0.01	0.929	0.945	1.7	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	9.306	0.01	0.556	0.517	-6.9	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	10.56	0.01	0.280	0.276	NA	5.6	+/- 40.0	Linear	
	Tetrachloroethene (PCE)	10.0	9.929	0.01	0.374	0.371	-0.7	NA	+/- 40.0	AverageRF	
	1,3-Dichloropropane	10.0	10.06	0.01	0.525	0.528	0.6	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	46.65	0.01	0.259	0.225	NA	-6.7	+/- 40.0	Linear	
	Dibromochloromethane	10.0	8.943	0.01	0.382	0.341	-10.6	NA	+/- 40.0	AverageRF	
	1,2-Dibromoethane (EDB)	10.0	9.650	0.01	0.356	0.343	-3.5	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/16/2007

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK
File ID: K070344

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chlorobenzene	10.0	9.610	0.30	1.048	1.007	-3.9	NA	+/- 40.0	AverageRF	
	1,1,1,2-Tetrachloroethane	10.0	9.380	0.01	0.343	0.322	-6.2	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	10.36	0.01	1.653	1.712	3.6	NA	+/- 20.0	AverageRF	
	Xylenes, Total	30.0	29.87	0.01	0.617	0.614	-0.4	NA	+/- 40.0	AverageRF	
	Styrene	10.0	9.914	0.01	1.099	1.089	-0.8	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	7.678	0.10	0.243	0.186	-23.2	NA	+/- 40.0	AverageRF	
	Isopropylbenzene	10.0	10.04	0.01	1.544	1.551	0.4	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	9.821	0.30	0.912	0.832	NA	-1.8	+/- 40.0	Linear	
	Bromobenzene	10.0	9.641	0.01	0.946	0.912	-3.6	NA	+/- 40.0	AverageRF	
	1,2,3-Trichloropropane	10.0	10.16	0.01	0.206	0.192	NA	1.6	+/- 40.0	Linear	
	n-Propylbenzene	10.0	9.938	0.01	0.895	0.890	-0.6	NA	+/- 40.0	AverageRF	
	2-Chlorotoluene	10.0	9.729	0.01	0.840	0.817	-2.7	NA	+/- 40.0	AverageRF	
	1,3,5-Trimethylbenzene	10.0	9.732	0.01	2.949	2.870	-2.7	NA	+/- 40.0	AverageRF	
	4-Chlorotoluene	10.0	9.525	0.01	0.877	0.835	-4.7	NA	+/- 40.0	AverageRF	
	tert-Butylbenzene	10.0	9.596	0.01	2.643	2.536	-4.0	NA	+/- 40.0	AverageRF	
	1,2,4-Trimethylbenzene	10.0	9.970	0.01	2.922	2.914	-0.3	NA	+/- 40.0	AverageRF	
	sec-Butylbenzene	10.0	9.983	0.01	3.465	3.460	-0.2	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	9.910	0.01	1.590	1.576	-0.9	NA	+/- 40.0	AverageRF	
	4-Isopropyltoluene	10.0	9.620	0.01	2.960	2.848	-3.8	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	9.796	0.01	1.632	1.599	-2.0	NA	+/- 40.0	AverageRF	
	n-Butylbenzene	10.0	10.15	0.01	2.900	2.943	1.5	NA	+/- 40.0	AverageRF	
	1,2-Dichlorobenzene	10.0	9.469	0.01	1.512	1.431	-5.3	NA	+/- 40.0	AverageRF	
	1,2-Dibromo-3-chloropropane (DBCP)	40.0	37.84	0.01	0.133	0.117	NA	-5.4	+/- 40.0	Linear	
	1,2,4-Trichlorobenzene	10.0	9.906	0.01	1.049	1.040	-0.9	NA	+/- 40.0	AverageRF	
	Hexachlorobutadiene	10.0	9.744	0.01	0.483	0.470	-2.6	NA	+/- 40.0	AverageRF	
	Naphthalene	10.0	8.521	0.01	1.931	1.645	-14.8	NA	+/- 40.0	AverageRF	
	1,2,3-Trichlorobenzene	10.0	9.926	0.01	0.921	0.914	-0.7	NA	+/- 40.0	AverageRF	
	Dibromofluoromethane	10.0	9.696	0.01	0.322	0.313	-3.0	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane-d4	10.0	9.821	0.01	0.296	0.291	-1.8	NA	+/- 40.0	AverageRF	
	Toluene-d8	10.0	10.10	0.01	1.297	1.311	1.0	NA	+/- 40.0	AverageRF	
	4-Bromofluorobenzene	10.0	9.939	0.01	0.905	0.899	-0.6	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070344.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 16-JAN-2007 23:56
Operator : X Inst ID: MSK.i
Smp Info : VSTD010;VSTD010
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:08 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.688	9.688	(1.000)	1144696	10.0000	
* 2	Chlorobenzene-d5	117	13.020	13.020	(1.000)	770748	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.608	15.608	(1.000)	338289	10.0000	
$ 4	Dibromofluoromethane	113	8.885	8.885	(0.917)	357724	10.0000	9.70
$ 5	1,2-Dichloroethane-d4	65	9.287	9.287	(0.959)	333316	10.0000	9.82
$ 6	Toluene-d8	98	11.428	11.428	(0.878)	1010405	10.0000	10.1
$ 7	Bromofluorobenzene	174	14.284	14.284	(0.915)	304206	10.0000	9.94
8	Dichlorodifluoromethane	85	3.501	3.501	(0.361)	268484	10.0000	10.3(Q)
10	Chloromethane	50	3.828	3.828	(0.395)	331284	10.0000	9.28
11	Vinyl chloride	62	4.051	4.051	(0.418)	283411	10.0000	9.16
12	Bromomethane	94	4.661	4.661	(0.481)	196871	10.0000	10.3
13	Chloroethane	64	4.824	4.824	(0.498)	148520	10.0000	9.96
14	Trichlorofluoromethane	101	5.256	5.256	(0.542)	339188	10.0000	10.8
15	1,1,2-Trichlorotrifluoroethane	101	6.044	6.044	(0.624)	311334	10.0000	10.2
17	1,1-Dichloroethene	96	6.059	6.059	(0.625)	255050	10.0000	9.22
18	Acetone	43	6.074	6.074	(0.627)	372065	50.0000	48.5
21	Carbon disulfide	76	6.446	6.446	(0.665)	1125335	10.0000	9.45
22	Methylene chloride	84	6.713	6.713	(0.693)	346529	10.0000	9.57
26	trans-1,2-Dichloroethene	96	7.100	7.100	(0.733)	323431	10.0000	9.44
27	tert-Butylmethylether	73	7.085	7.085	(0.731)	637802	10.0000	8.53(Q)
28	1,1-Dichloroethane	63	7.636	7.636	(0.788)	651594	10.0000	10.0
30	Vinyl acetate	43	7.636	7.636	(0.788)	1328639	10.0000	9.19(a)

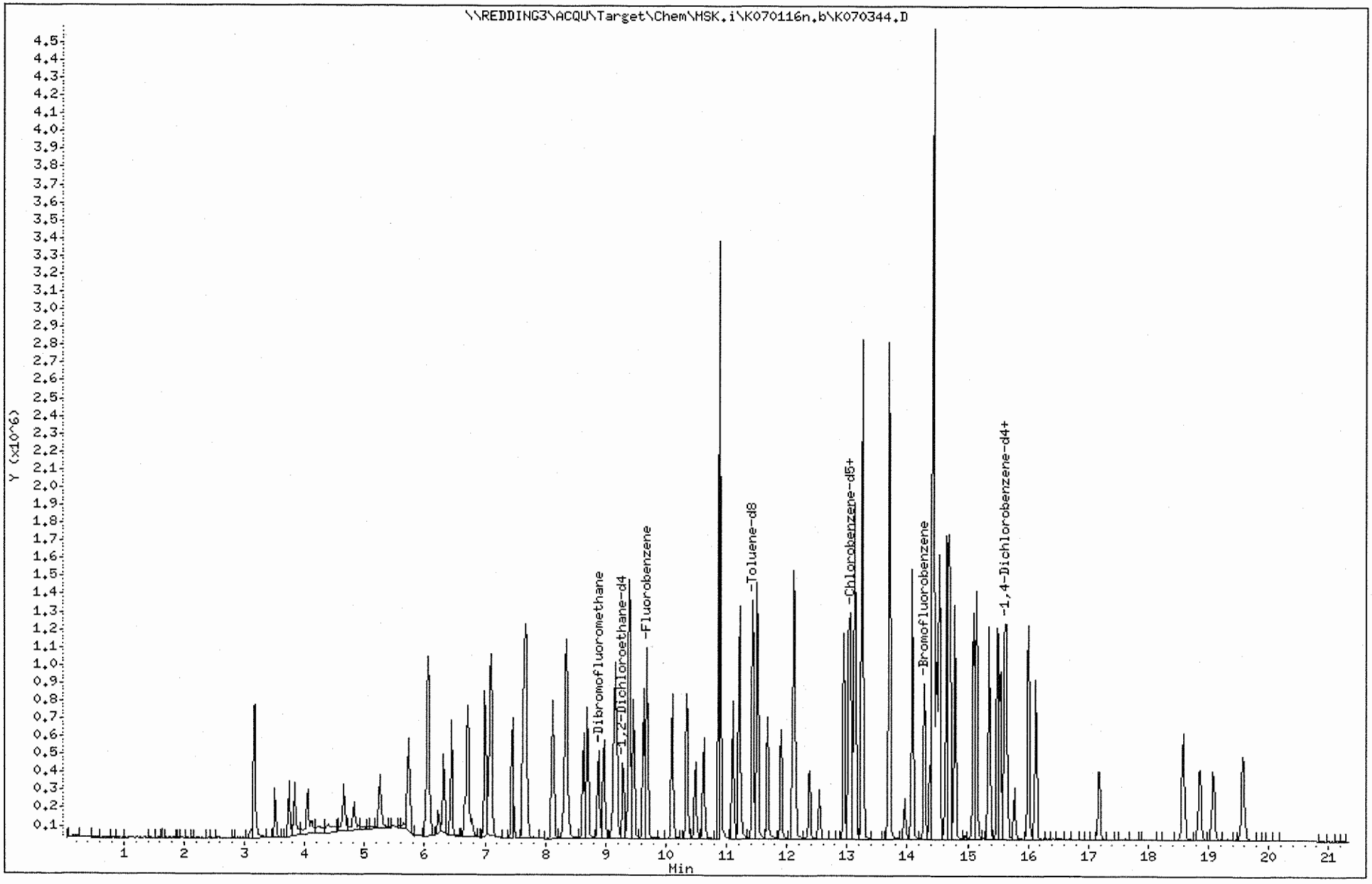
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
32	2,2-Dichloropropane	77	8.364	8.364	(0.863)	379323	10.0000	8.78(Q)
33	cis-1,2-Dichloroethene	96	8.349	8.349	(0.862)	364127	10.0000	9.68
35	2-Butanone	43	8.305	8.305	(0.857)	568426	50.0000	42.4
36	Bromochloromethane	128	8.632	8.632	(0.891)	164477	10.0000	9.22
37	Chloroform	83	8.692	8.692	(0.897)	617413	10.0000	10.1
38	1,1,1-Trichloroethane	97	8.974	8.974	(0.926)	429556	10.0000	10.1(Q)
40	1,1-Dichloropropene	75	9.153	9.153	(0.945)	439600	10.0000	10.1
41	Carbon tetrachloride	119	9.182	9.182	(0.948)	323266	10.0000	9.43
43	Benzene	78	9.406	9.406	(0.971)	1204116	10.0000	9.44
44	1,2-Dichloroethane	62	9.376	9.376	(0.968)	425080	10.0000	9.94
45	Trichloroethene	95	10.105	10.105	(1.043)	335017	10.0000	9.39
46	1,2-Dichloropropane	63	10.343	10.343	(1.068)	371393	10.0000	9.70
48	Dibromomethane	93	10.491	10.491	(1.083)	216334	10.0000	9.76
49	Bromodichloromethane	83	10.625	10.625	(1.097)	416469	10.0000	9.64
51	cis-1,3-Dichloropropene	75	11.101	11.101	(1.146)	493056	10.0000	9.20
52	4-Methyl-2-pentanone	43	11.220	11.220	(1.158)	1321580	50.0000	43.8
53	Toluene	92	11.503	11.503	(0.883)	728132	10.0000	10.2
54	trans-1,3-Dichloropropene	75	11.681	11.681	(0.897)	398470	10.0000	9.30
55	1,1,2-Trichlorcethane	83	11.904	11.904	(0.914)	212643	10.0000	10.6
56	Tetrachloroethene	166	12.142	12.142	(0.933)	285901	10.0000	9.93
57	1,3-Dichloropropane	76	12.098	12.098	(0.929)	406706	10.0000	10.1
58	2-Hexanone	43	12.113	12.113	(0.930)	868477	50.0000	46.6
59	Dibromochloromethane	129	12.380	12.380	(0.951)	263161	10.0000	8.94
60	1,2-Dibromoethane	107	12.544	12.544	(0.963)	264423	10.0000	9.65
62	Chlorobenzene	112	13.064	13.064	(1.003)	776336	10.0000	9.61(Q)
63	1,1,1,2-Tetrachloroethane	131	13.124	13.124	(1.008)	248184	10.0000	9.38
64	Ethylbenzene	91	13.139	13.139	(1.009)	1319211	10.0000	10.4
65	m-,p-Xylene	106	13.258	13.258	(1.018)	947879	20.0000	19.8
66	o-Xylene	106	13.704	13.704	(1.053)	472016	10.0000	10.0
M 67	Xylene (total)	106				1419895	30.0000	29.9
68	Styrene	104	13.704	13.704	(1.053)	839649	10.0000	9.91
69	Bromoform	173	13.957	13.957	(1.072)	143509	10.0000	7.68
70	Isopropylbenzene	105	14.091	14.091	(1.082)	1195343	10.0000	10.0
71	1,1,2,2-Tetrachloroethane	83	14.373	14.373	(0.921)	281534	10.0000	9.82
72	Bromobenzene	156	14.492	14.492	(0.929)	308598	10.0000	9.64
73	1,2,3-Trichloropropane	110	14.463	14.463	(0.927)	64926	10.0000	10.2(Q)
74	n-Propylbenzene	120	14.537	14.537	(0.931)	300965	10.0000	9.94
76	2-Chlorotoluene	126	14.686	14.686	(0.941)	276480	10.0000	9.73
78	1,3,5-Trimethylbenzene	105	14.716	14.716	(0.943)	970768	10.0000	9.73(Q)
79	4-Chlorotoluene	126	14.790	14.790	(0.948)	282498	10.0000	9.52
80	tert-Butylbenzene	119	15.102	15.102	(0.968)	857965	10.0000	9.60
81	1,2,4-Trimethylbenzene	105	15.147	15.147	(0.970)	985660	10.0000	9.97
82	sec-Butylbenzene	105	15.355	15.355	(0.984)	1170349	10.0000	9.98
83	1,3-Dichlorobenzene	146	15.548	15.548	(0.996)	533029	10.0000	9.91
84	p-Isopropyltoluene	119	15.504	15.504	(0.993)	963423	10.0000	9.62
85	1,4-Dichlorobenzene	146	15.638	15.638	(1.002)	541001	10.0000	9.80
87	n-Butylbenzene	91	16.010	16.010	(1.026)	995661	10.0000	10.1
88	1,2-Dichlorobenzene	146	16.129	16.129	(1.033)	484244	10.0000	9.47
89	1,2-Dibromo-3-chloropropane	75	17.170	17.170	(1.100)	158889	40.0000	37.8(Q)
90	1,2,4-Trichlorobenzene	180	18.583	18.583	(1.191)	351661	10.0000	9.90
91	Hexachlorobutadiene	225	18.865	18.865	(1.209)	159158	10.0000	9.74
92	Naphthalene	128	19.074	19.074	(1.222)	556579	10.0000	8.52
93	1,2,3-Trichlorobenzene	180	19.579	19.579	(1.254)	309099	10.0000	9.92

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070344.D
Date : 16-JAN-2007 23:56
Client ID: VSTD010
Sample Info: VSTD010;VSTD010
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/18/2007

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK
File ID: K070429

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
	Dichlorodifluoromethane (CFC 12)	10.0	9.947	0.01	0.227	0.226	-0.5	NA	+/- 40.0	AverageRF	
*	Chloromethane	10.0	9.305	0.10	0.312	0.290	-6.9	NA	+/- 40.0	AverageRF	
#	Vinyl Chloride	10.0	9.070	0.01	0.270	0.245	-9.3	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	9.919	0.01	0.166	0.165	NA	-0.8	+/- 40.0	Linear	
	Chloroethane	10.0	9.395	0.01	0.130	0.122	-6.0	NA	+/- 40.0	AverageRF	
	Trichlorofluoromethane (CFC 11)	10.0	10.51	0.01	0.275	0.289	5.1	NA	+/- 40.0	AverageRF	
	1,1,2-Trichlorotrifluoroethane	10.0	9.675	0.01	0.265	0.257	-3.2	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene (1,1-DCE)	10.0	9.106	0.01	0.242	0.220	-8.9	NA	+/- 20.0	AverageRF	
	Acetone	50.0	58.43	0.01	0.073	0.077	NA	16.9	+/- 40.0	Linear	
	Carbon Disulfide	10.0	9.354	0.01	1.040	0.973	-6.5	NA	+/- 40.0	AverageRF	
	Dichloromethane (Methylene Chloride)	10.0	9.916	0.01	0.316	0.314	-0.8	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	9.405	0.01	0.299	0.282	-5.9	NA	+/- 40.0	AverageRF	
	Methyl tert-Butyl Ether	10.0	8.992	0.01	0.653	0.587	-10.1	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane (1,1-DCA)	10.0	9.943	0.10	0.567	0.564	-0.6	NA	+/- 40.0	AverageRF	
	Vinyl Acetate	10.0	7.801	0.01	1.263	0.986	-22.0	NA	+/- 40.0	AverageRF	
	2,2-Dichloropropane	10.0	8.313	0.01	0.378	0.314	-16.9	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	9.598	0.01	0.329	0.315	-4.0	NA	+/- 40.0	AverageRF	
	2-Butanone (MEK)	50.0	49.52	0.01	0.117	0.116	-1.0	NA	+/- 40.0	AverageRF	
	Bromochloromethane	10.0	9.043	0.01	0.156	0.141	-9.6	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	10.08	0.01	0.533	0.537	0.8	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane (TCA)	10.0	9.959	0.01	0.370	0.369	-0.4	NA	+/- 40.0	AverageRF	
	1,1-Dichloropropene	10.0	9.640	0.01	0.381	0.367	-3.6	NA	+/- 40.0	AverageRF	
	Carbon Tetrachloride	10.0	9.071	0.01	0.299	0.272	-9.3	NA	+/- 40.0	AverageRF	
	Benzene	10.0	9.299	0.01	1.114	1.036	-7.0	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane (EDC)	10.0	10.06	0.01	0.374	0.376	0.6	NA	+/- 40.0	AverageRF	
	Trichloroethene (TCE)	10.0	9.759	0.01	0.312	0.304	-2.4	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	9.563	0.01	0.334	0.320	-4.4	NA	+/- 20.0	AverageRF	
	Dibromomethane	10.0	10.05	0.01	0.194	0.195	0.5	NA	+/- 40.0	AverageRF	
	Bromodichloromethane	10.0	9.389	0.01	0.377	0.354	-6.1	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	8.846	0.01	0.468	0.414	-11.5	NA	+/- 40.0	AverageRF	
	4-Methyl-2-pentanone (MIBK)	50.0	48.07	0.01	0.263	0.253	-3.8	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	9.996	0.01	0.929	0.929	-0.0	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	9.466	0.01	0.556	0.526	-5.3	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	11.31	0.01	0.280	0.295	NA	13.1	+/- 40.0	Linear	
	Tetrachloroethene (PCE)	10.0	9.844	0.01	0.374	0.368	-1.6	NA	+/- 40.0	AverageRF	
	1,3-Dichloropropane	10.0	10.61	0.01	0.525	0.557	6.1	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	54.59	0.01	0.259	0.262	NA	9.2	+/- 40.0	Linear	
	Dibromochloromethane	10.0	9.030	0.01	0.382	0.345	-9.7	NA	+/- 40.0	AverageRF	
	1,2-Dibromoethane (EDB)	10.0	10.03	0.01	0.356	0.357	0.3	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/18/2007

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK
File ID: K070429

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chlorobenzene	10.0	9.570	0.30	1.048	1.003	-4.3	NA	+/- 40.0	AverageRF	
	1,1,1,2-Tetrachloroethane	10.0	9.254	0.01	0.343	0.318	-7.4	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	10.06	0.01	1.653	1.663	0.6	NA	+/- 20.0	AverageRF	
	Xylenes, Total	30.0	28.77	0.01	0.617	0.591	-4.1	NA	+/- 40.0	AverageRF	
	Styrene	10.0	9.290	0.01	1.099	1.021	-7.1	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	8.186	0.10	0.243	0.199	-18.1	NA	+/- 40.0	AverageRF	
	Isopropylbenzene	10.0	9.443	0.01	1.544	1.459	-5.6	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	9.855	0.30	0.912	0.835	NA	-1.4	+/- 40.0	Linear	
	Bromobenzene	10.0	9.620	0.01	0.946	0.910	-3.8	NA	+/- 40.0	AverageRF	
	1,2,3-Trichloropropane	10.0	10.61	0.01	0.206	0.200	NA	6.1	+/- 40.0	Linear	
	n-Propylbenzene	10.0	9.060	0.01	0.895	0.811	-9.4	NA	+/- 40.0	AverageRF	
	2-Chlorotoluene	10.0	9.435	0.01	0.840	0.793	-5.6	NA	+/- 40.0	AverageRF	
	1,3,5-Trimethylbenzene	10.0	9.505	0.01	2.949	2.803	-4.9	NA	+/- 40.0	AverageRF	
	4-Chlorotoluene	10.0	8.968	0.01	0.877	0.786	-10.3	NA	+/- 40.0	AverageRF	
	tert-Butylbenzene	10.0	8.994	0.01	2.643	2.377	-10.0	NA	+/- 40.0	AverageRF	
	1,2,4-Trimethylbenzene	10.0	9.414	0.01	2.922	2.751	-5.8	NA	+/- 40.0	AverageRF	
	sec-Butylbenzene	10.0	9.437	0.01	3.465	3.270	-5.6	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	9.827	0.01	1.590	1.562	-1.7	NA	+/- 40.0	AverageRF	
	4-Isopropyltoluene	10.0	9.021	0.01	2.960	2.671	-9.8	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	9.569	0.01	1.632	1.562	-4.3	NA	+/- 40.0	AverageRF	
	n-Butylbenzene	10.0	9.754	0.01	2.900	2.829	-2.4	NA	+/- 40.0	AverageRF	
	1,2-Dichlorobenzene	10.0	9.649	0.01	1.512	1.459	-3.5	NA	+/- 40.0	AverageRF	
	1,2-Dibromo-3-chloropropane (DBCP)	40.0	41.53	0.01	0.133	0.129	NA	3.8	+/- 40.0	Linear	
	1,2,4-Trichlorobenzene	10.0	9.335	0.01	1.049	0.980	-6.6	NA	+/- 40.0	AverageRF	
	Hexachlorobutadiene	10.0	9.189	0.01	0.483	0.444	-8.1	NA	+/- 40.0	AverageRF	
	Naphthalene	10.0	8.607	0.01	1.931	1.662	-13.9	NA	+/- 40.0	AverageRF	
	1,2,3-Trichlorobenzene	10.0	9.493	0.01	0.921	0.874	-5.1	NA	+/- 40.0	AverageRF	
	Dibromofluoromethane	10.0	9.545	0.01	0.322	0.308	-4.5	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane-d4	10.0	10.21	0.01	0.296	0.303	2.1	NA	+/- 40.0	AverageRF	
	Toluene-d8	10.0	9.866	0.01	1.297	1.280	-1.3	NA	+/- 40.0	AverageRF	
	4-Bromofluorobenzene	10.0	9.435	0.01	0.905	0.854	-5.6	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070429.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 18-JAN-2007 22:19
Operator : X Inst ID: MSK.i
Smp Info : VSTD010;VSTD010
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

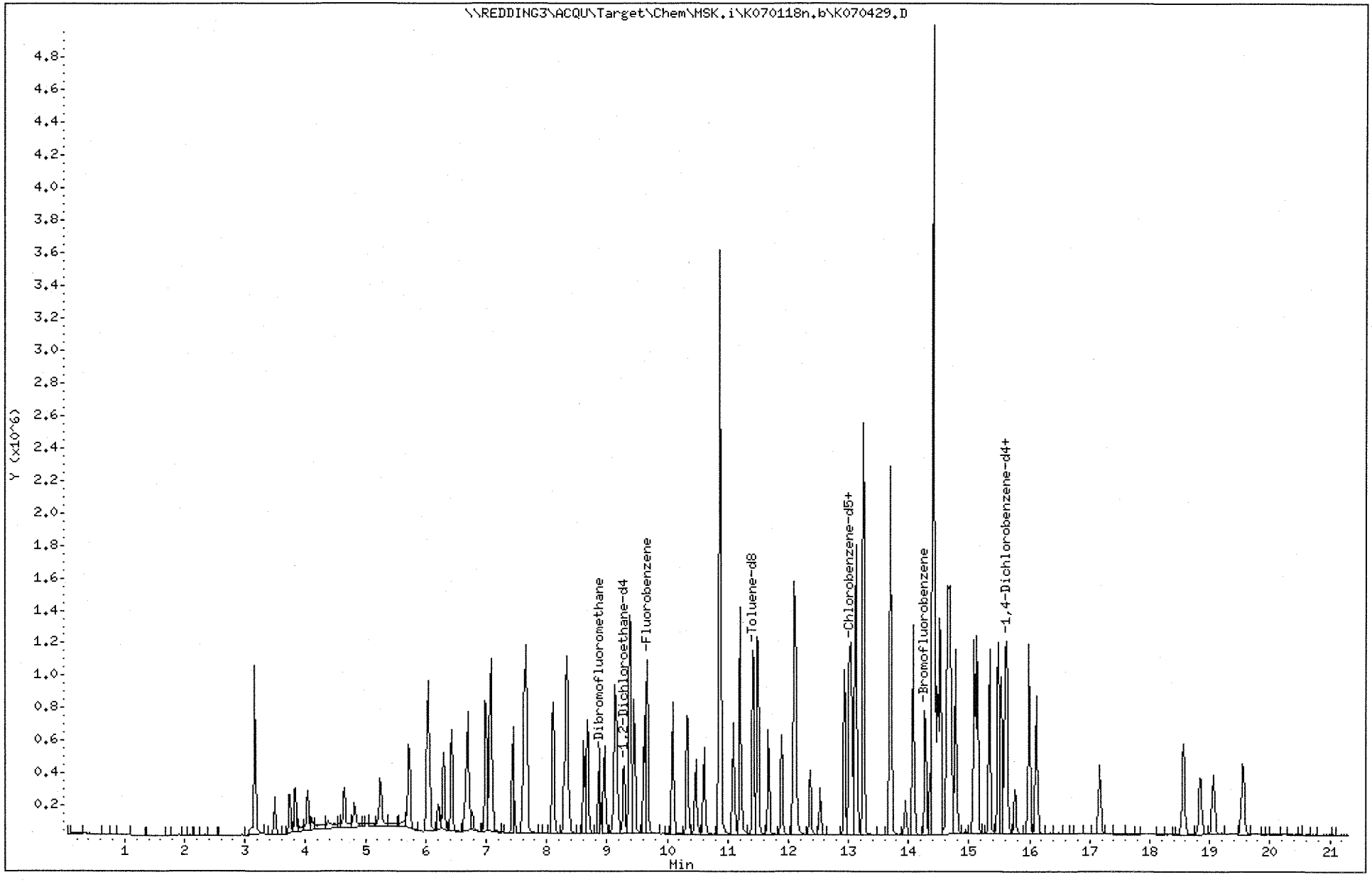
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	9.673	9.673	(1.000)	1098595	10.0000	
*	2 Chlorobenzene-d5	117	13.020	13.020	(1.000)	715700	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.593	15.593	(1.000)	322118	10.0000	
$	4 Dibromofluoromethane	113	8.870	8.870	(0.917)	337962	10.0000	9.54
$	5 1,2-Dichloroethane-d4	65	9.287	9.287	(0.960)	332507	10.0000	10.2
$	6 Toluene-d8	98	11.414	11.414	(0.877)	916105	10.0000	9.87
$	7 Bromofluorobenzene	174	14.284	14.284	(0.916)	274976	10.0000	9.43
	8 Dichlorodifluoromethane	85	3.486	3.486	(0.360)	247858	10.0000	9.95(Q)
	10 Chloromethane	50	3.828	3.828	(0.396)	318669	10.0000	9.30
	11 Vinyl chloride	62	4.036	4.036	(0.417)	269460	10.0000	9.07
	12 Bromomethane	94	4.646	4.646	(0.480)	181055	10.0000	9.92
	13 Chloroethane	64	4.810	4.810	(0.497)	134512	10.0000	9.40
	14 Trichlorofluoromethane	101	5.241	5.241	(0.542)	317565	10.0000	10.5
	15 1,1,2-Trichlorotrifluoroethane	101	6.029	6.029	(0.623)	281886	10.0000	9.68
	17 1,1-Dichloroethene	96	6.044	6.044	(0.625)	241865	10.0000	9.11
	18 Acetone	43	6.059	6.059	(0.626)	425349	50.0000	58.4
	21 Carbon disulfide	76	6.431	6.431	(0.665)	1068666	10.0000	9.35
	22 Methylene chloride	84	6.699	6.699	(0.692)	344529	10.0000	9.92
	26 trans-1,2-Dichloroethene	96	7.085	7.085	(0.732)	309350	10.0000	9.40
	27 tert-Butylmethylether	73	7.070	7.070	(0.731)	645291	10.0000	8.99(Q)
	28 1,1-Dichloroethane	63	7.621	7.621	(0.788)	619691	10.0000	9.94
	30 Vinyl acetate	43	7.665	7.665	(0.792)	1082706	10.0000	7.80(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
32	2,2-Dichloropropane	77	8.350	8.350	(0.863)	344794	10.0000	8.31(Q)
33	cis-1,2-Dichloroethene	96	8.335	8.335	(0.862)	346564	10.0000	9.60
35	2-Butanone	43	8.290	8.290	(0.857)	636748	50.0000	49.5
36	Bromochloromethane	128	8.617	8.617	(0.891)	154782	10.0000	9.04
37	Chloroform	83	8.677	8.677	(0.897)	590391	10.0000	10.1
38	1,1,1-Trichloroethane	97	8.959	8.959	(0.926)	404860	10.0000	9.96(Q)
40	1,1-Dichloropropene	75	9.138	9.138	(0.945)	403465	10.0000	9.64
41	Carbon tetrachloride	119	9.168	9.168	(0.948)	298351	10.0000	9.07
43	Benzene	78	9.391	9.391	(0.971)	1138264	10.0000	9.30
44	1,2-Dichloroethane	62	9.361	9.361	(0.968)	412852	10.0000	10.0
45	Trichloroethene	95	10.090	10.090	(1.043)	334091	10.0000	9.76
46	1,2-Dichloropropane	63	10.328	10.328	(1.068)	351201	10.0000	9.56
48	Dibromomethane	93	10.477	10.477	(1.083)	213842	10.0000	10.0
49	Bromodichloromethane	83	10.610	10.610	(1.097)	389049	10.0000	9.39
51	cis-1,3-Dichloropropene	75	11.086	11.086	(1.146)	454968	10.0000	8.85
52	4-Methyl-2-pentanone	43	11.205	11.205	(1.158)	1391399	50.0000	48.1
53	Toluene	92	11.503	11.503	(0.883)	664654	10.0000	10.0
54	trans-1,3-Dichloropropene	75	11.667	11.667	(0.896)	376384	10.0000	9.47
55	1,1,2-Trichloroethane	83	11.890	11.890	(0.913)	210997	10.0000	11.3
56	Tetrachloroethene	166	12.128	12.128	(0.931)	263207	10.0000	9.84
57	1,3-Dichloropropane	76	12.083	12.083	(0.928)	398406	10.0000	10.6
58	2-Hexanone	43	12.098	12.098	(0.929)	936968	50.0000	54.6
59	Dibromochloromethane	129	12.366	12.366	(0.950)	246734	10.0000	9.03
60	1,2-Dibromoethane	107	12.529	12.529	(0.962)	255288	10.0000	10.0
62	Chlorobenzene	112	13.050	13.050	(1.002)	717877	10.0000	9.57(Q)
63	1,1,1,2-Tetrachloroethane	131	13.109	13.109	(1.007)	227377	10.0000	9.25
64	Ethylbenzene	91	13.124	13.124	(1.008)	1190088	10.0000	10.1
65	m-,p-Xylene	106	13.243	13.243	(1.017)	849977	20.0000	19.1
66	o-Xylene	106	13.704	13.704	(1.053)	419668	10.0000	9.62
M 67	Xylene (total)	106				1269645	30.0000	28.8
68	Styrene	104	13.704	13.704	(1.053)	730560	10.0000	9.29
69	Bromoform	173	13.957	13.957	(1.072)	142081	10.0000	8.18
70	Isopropylbenzene	105	14.076	14.076	(1.081)	1043851	10.0000	9.44
71	1,1,2,2-Tetrachloroethane	83	14.359	14.359	(0.921)	268990	10.0000	9.85
72	Bromobenzene	156	14.493	14.493	(0.929)	293198	10.0000	9.62
73	1,2,3-Trichloropropane	110	14.448	14.448	(0.927)	64438	10.0000	10.6(Q)
74	n-Propylbenzene	120	14.537	14.537	(0.932)	261244	10.0000	9.06
76	2-Chlorotoluene	126	14.671	14.671	(0.941)	255293	10.0000	9.43
78	1,3,5-Trimethylbenzene	105	14.701	14.701	(0.943)	902804	10.0000	9.50(Q)
79	4-Chlorotoluene	126	14.775	14.775	(0.948)	253263	10.0000	8.97
80	tert-Butylbenzene	119	15.088	15.088	(0.968)	765751	10.0000	8.99
81	1,2,4-Trimethylbenzene	105	15.132	15.132	(0.970)	886229	10.0000	9.41
82	sec-Butylbenzene	105	15.340	15.340	(0.984)	1053387	10.0000	9.44
83	1,3-Dichlorobenzene	146	15.534	15.534	(0.996)	503280	10.0000	9.83
84	p-Isopropyltoluene	119	15.489	15.489	(0.993)	860290	10.0000	9.02
85	1,4-Dichlorobenzene	146	15.638	15.638	(1.003)	503198	10.0000	9.57
87	n-Butylbenzene	91	15.995	15.995	(1.026)	911204	10.0000	9.75
88	1,2-Dichlorobenzene	146	16.114	16.114	(1.033)	469876	10.0000	9.65
89	1,2-Dibromo-3-chloropropane	75	17.170	17.170	(1.101)	165684	40.0000	41.5(Q)
90	1,2,4-Trichlorobenzene	180	18.568	18.568	(1.191)	315541	10.0000	9.33
91	Hexachlorobutadiene	225	18.851	18.851	(1.209)	142930	10.0000	9.19
92	Naphthalene	128	19.059	19.059	(1.222)	535343	10.0000	8.61
93	1,2,3-Trichlorobenzene	180	19.550	19.550	(1.254)	281477	10.0000	9.49

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070429.D
Date : 18-JAN-2007 22:19
Client ID: VSTD010
Instrument: MSK.i
Sample Info: VSTD010;VSTD010
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants **Service Request:** D0700056
Project: TDY

Analysis Run Log
Volatile Organic Compounds

Analysis Method: SW8260 **Instrument ID:** MSK
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
K070144	VSTD00.5	VSTD00.5	01/11/2007	11:45		01/11/2007	12:05
K070145	VSTD001	VSTD001	01/11/2007	12:12		01/11/2007	12:32
K070146	VSTD005	VSTD005	01/11/2007	12:38		01/11/2007	12:58
K070147	VSTD010	VSTD010	01/11/2007	13:05		01/11/2007	13:25
K070148	VSTD020	VSTD020	01/11/2007	13:31		01/11/2007	13:51
K070149	VSTD040	VSTD040	01/11/2007	13:58		01/11/2007	14:18
K070150	VSTD100	VSTD100	01/11/2007	14:25		01/11/2007	14:45
K070152	QCALTSTD	QCALTSTD	01/11/2007	15:18		01/11/2007	15:38
K070344	VSTD010	VSTD010	01/16/2007	23:56		01/17/2007	00:16
K070345	Laboratory Control Sample	K0116W02LCS	01/17/2007	00:22		01/17/2007	00:42
K070346	Laboratory Control Sample Duplicate	K0116W02LCSD	01/17/2007	00:49		01/17/2007	01:09
K070348	Method Blank	K0116W02	01/17/2007	01:41		01/17/2007	02:01
K070352	BLD120-MW-2	D0700056-004	01/17/2007	03:26		01/17/2007	03:46
K070353	BLD120-MW-3	D0700056-005	01/17/2007	03:53		01/17/2007	04:13
K070429	VSTD010	VSTD010	01/18/2007	22:19		01/18/2007	22:39
K070430	Laboratory Control Sample	K0118W02LCS	01/18/2007	22:46		01/18/2007	23:06
K070431	Laboratory Control Sample Duplicate	K0118W02LCSD	01/18/2007	23:12		01/18/2007	23:32
K070433	Method Blank	K0118W02	01/19/2007	00:05		01/19/2007	00:25
K070436	QCEB	D0700056-003	01/19/2007	01:25		01/19/2007	01:45
K070437	BLD120-MW-4	D0700056-006	01/19/2007	01:52		01/19/2007	02:12
K070438	BLD120-MW-5	D0700056-007	01/19/2007	02:18		01/19/2007	02:38
K070439	BLD102-MW-4	D0700056-008	01/19/2007	02:45		01/19/2007	03:05
K070440	MWCL-1	D0700056-009	01/19/2007	03:11		01/19/2007	03:31
K070441	MWCL-2	D0700056-010	01/19/2007	03:38		01/19/2007	03:58
K070442	MWCL-3	D0700056-011	01/19/2007	04:04		01/19/2007	04:24
K070443	MWCL-4	D0700056-012	01/19/2007	04:31		01/19/2007	04:51
K070444	MWCL-6	D0700056-013	01/19/2007	04:57		01/19/2007	05:17
K070445	MWCL-7	D0700056-014	01/19/2007	05:23		01/19/2007	05:43
K070446	MWCL-5	D0700056-015	01/19/2007	05:50		01/19/2007	06:10
K070448	MWCL-8	D0700056-016	01/19/2007	06:43		01/19/2007	07:03
K070449	BLD120-MW-1	D0700056-001	01/19/2007	07:09		01/19/2007	07:29
K070450	BLD120-MW-1DL	D0700056-001DL	01/19/2007	07:36		01/19/2007	07:56
K070451	BLD120-MW-6	D0700056-002	01/19/2007	08:02		01/19/2007	08:22
K070452	BLD120-MW-6DL	D0700056-002DL	01/19/2007	08:29		01/19/2007	08:49
K070453	BLD120-MW-2DL	D0700056-004DL	01/19/2007	08:55		01/19/2007	09:15
K070454	BLD120-MW-3DL	D0700056-005DL	01/19/2007	09:22		01/19/2007	09:42

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Extracted: 01/17/2007

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K0116W02

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	K0116W02	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	K0116W02LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	K0116W02LCSD	NA	NA	10.00 ML	10.00	NA	
BLD120-MW-2	D0700056-004	01/09/2007	01/13/2007	10.00 ML	10.00	NA	
BLD120-MW-3	D0700056-005	01/09/2007	01/13/2007	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Extracted: 01/19/2007

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K0118W02

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	K0118W02	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	K0118W02LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	K0118W02LCSD	NA	NA	10.00 ML	10.00	NA	
QCEB	D0700056-003	01/09/2007	01/13/2007	10.00 ML	10.00	NA	
BLD120-MW-4	D0700056-006	01/10/2007	01/13/2007	10.00 ML	10.00	NA	
BLD120-MW-5	D0700056-007	01/10/2007	01/13/2007	10.00 ML	10.00	NA	
BLD102-MW-4	D0700056-008	01/10/2007	01/13/2007	10.00 ML	10.00	NA	
MWCL-1	D0700056-009	01/10/2007	01/13/2007	10.00 ML	10.00	NA	
MWCL-2	D0700056-010	01/11/2007	01/13/2007	10.00 ML	10.00	NA	
MWCL-3	D0700056-011	01/11/2007	01/13/2007	10.00 ML	10.00	NA	
MWCL-4	D0700056-012	01/11/2007	01/13/2007	10.00 ML	10.00	NA	
MWCL-6	D0700056-013	01/11/2007	01/13/2007	10.00 ML	10.00	NA	
MWCL-7	D0700056-014	01/12/2007	01/13/2007	10.00 ML	10.00	NA	
MWCL-5	D0700056-015	01/12/2007	01/13/2007	10.00 ML	10.00	NA	
MWCL-8	D0700056-016	01/12/2007	01/13/2007	10.00 ML	10.00	NA	
BLD120-MW-1	D0700056-001	01/09/2007	01/13/2007	10.00 ML	10.00	NA	
BLD120-MW-1DL	D0700056-001DL	01/09/2007	01/13/2007	10.00 ML	10.00	NA	
BLD120-MW-6	D0700056-002	01/09/2007	01/13/2007	10.00 ML	10.00	NA	
BLD120-MW-6DL	D0700056-002DL	01/09/2007	01/13/2007	10.00 ML	10.00	NA	
BLD120-MW-2DL	D0700056-004DL	01/09/2007	01/13/2007	10.00 ML	10.00	NA	
BLD120-MW-3DL	D0700056-005DL	01/09/2007	01/13/2007	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants **Service Request:** D0700056
Project: TDY

Holding Time Summary
Volatile Organic Compounds

Analysis Method: SW8260

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
BLD120-MW-1	01/09/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	10	
BLD120-MW-1DL	01/09/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	10	
BLD120-MW-6	01/09/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	10	
BLD120-MW-6DL	01/09/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	10	
QCEB	01/09/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	10	
BLD120-MW-2	01/09/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/17/2007	14	8	
BLD120-MW-2DL	01/09/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	10	
BLD120-MW-3	01/09/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/17/2007	14	8	
BLD120-MW-3DL	01/09/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	10	
BLD120-MW-4	01/10/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	9	
BLD120-MW-5	01/10/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	9	
BLD102-MW-4	01/10/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	9	
MWCL-1	01/10/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	9	
MWCL-2	01/11/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	8	
MWCL-3	01/11/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	8	
MWCL-4	01/11/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	8	
MWCL-6	01/11/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	8	
MWCL-7	01/12/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	7	
MWCL-5	01/12/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	7	
MWCL-8	01/12/2007	01/13/2007	N/A	N/A	N/A	N/A	N/A	N/A	01/19/2007	14	7	

Comments: _____

Raw Data

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070142.D

Date : 11-JAN-2007 10:50

Client ID: BFB

Instrument: MSK.i

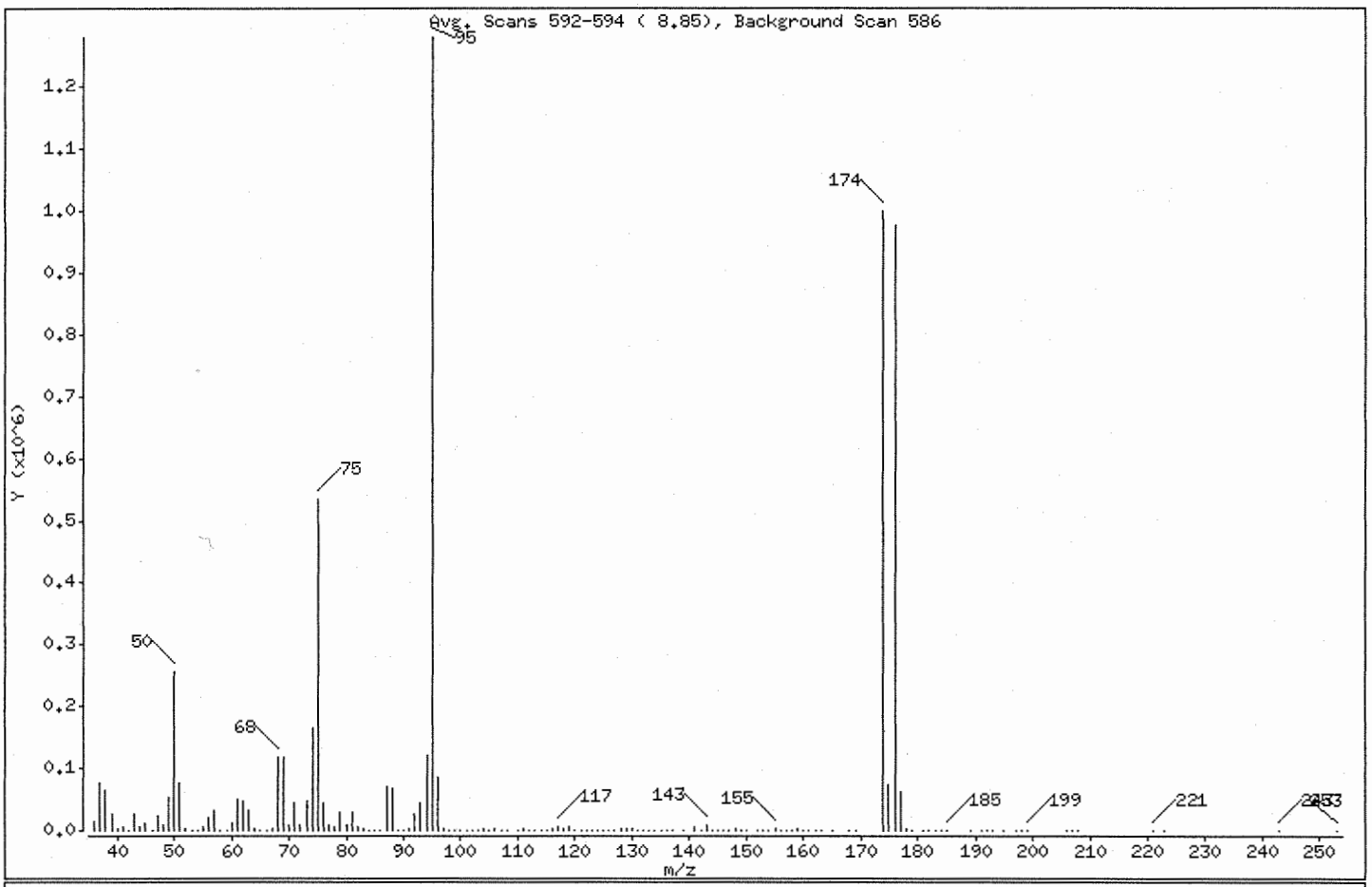
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.02
75	30.00 - 60.00% of mass 95	41.67
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	78.08
175	5.00 - 9.00% of mass 174	5.73 (7.33)
176	95.00 - 101.00% of mass 174	76.37 (97.81)
177	5.00 - 9.00% of mass 176	4.92 (6.44)

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070142.D

Date : 11-JAN-2007 10:50

Client ID: BFB

Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

Data File: K070142.D
Spectrum: Avg. Scans 592-594 (8.85), Background Scan 586
Location of Maximum: 95.00
Number of points: 153

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	15275	75.00	533568	115.00	1135	157.00	1469
37.00	76456	76.00	44552	116.00	2994	158.00	335
38.00	63976	77.00	7506	117.00	5855	159.00	2203
39.00	25248	78.00	7039	118.00	3685	160.00	566
40.00	1936	79.00	29632	119.00	4998	161.00	805
41.00	4901	80.00	7798	120.00	289	162.00	326
42.00	997	81.00	29904	121.00	220	163.00	103
43.00	26424	82.00	5899	122.00	151	165.00	105
44.00	5013	83.00	1964	123.00	273	168.00	102
45.00	13042	84.00	185	124.00	673	169.00	384
46.00	420	85.00	215	125.00	351	174.00	999872
47.00	24648	86.00	827	126.00	593	175.00	73328
48.00	9552	87.00	70096	127.00	498	176.00	977984
49.00	54176	88.00	68776	128.00	3879	177.00	63024
50.00	256384	89.00	115	129.00	1943	178.00	1702
51.00	77152	90.00	414	130.00	3522	179.00	73
52.00	3408	91.00	3516	131.00	1345	181.00	24
53.00	703	92.00	26576	132.00	160	182.00	150
54.00	256	93.00	42960	133.00	124	183.00	122
55.00	5896	94.00	120256	134.00	215	184.00	84
56.00	21136	95.00	1280512	135.00	996	185.00	328
57.00	32736	96.00	84424	136.00	134	189.00	92
58.00	1367	97.00	2781	137.00	1453	191.00	30
59.00	422	98.00	396	139.00	378	192.00	176
60.00	10538	99.00	296	141.00	6814	193.00	146
61.00	51072	100.00	222	142.00	281	195.00	100
62.00	46952	101.00	382	143.00	7933	197.00	124
63.00	33376	102.00	27	144.00	389	198.00	100
64.00	3453	103.00	422	145.00	505	199.00	323
65.00	140	104.00	4117	146.00	1235	206.00	83
66.00	147	105.00	1418	147.00	444	207.00	128
67.00	3961	106.00	4171	148.00	2197	208.00	13
68.00	118288	107.00	1302	149.00	615	221.00	183
69.00	116768	108.00	167	150.00	1187	223.00	107
70.00	9144	110.00	311	152.00	488	243.00	652

Date : 11-JAN-2007 10:50

Client ID: BFB Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624 Column diameter: 0.32

Data File: K070142.D
Spectrum: Avg. Scans 592-594 (8.85), Background Scan 586
Location of Maximum: 95.00
Number of points: 153

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	43768	111.00	2385	153.00	662	253.00	58
72.00	8287	112.00	464	154.00	709		
73.00	46184	113.00	830	155.00	3027		
74.00	164032	114.00	186	156.00	554		

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070142.D

Date : 11-JAN-2007 10:50

Client ID: BFB

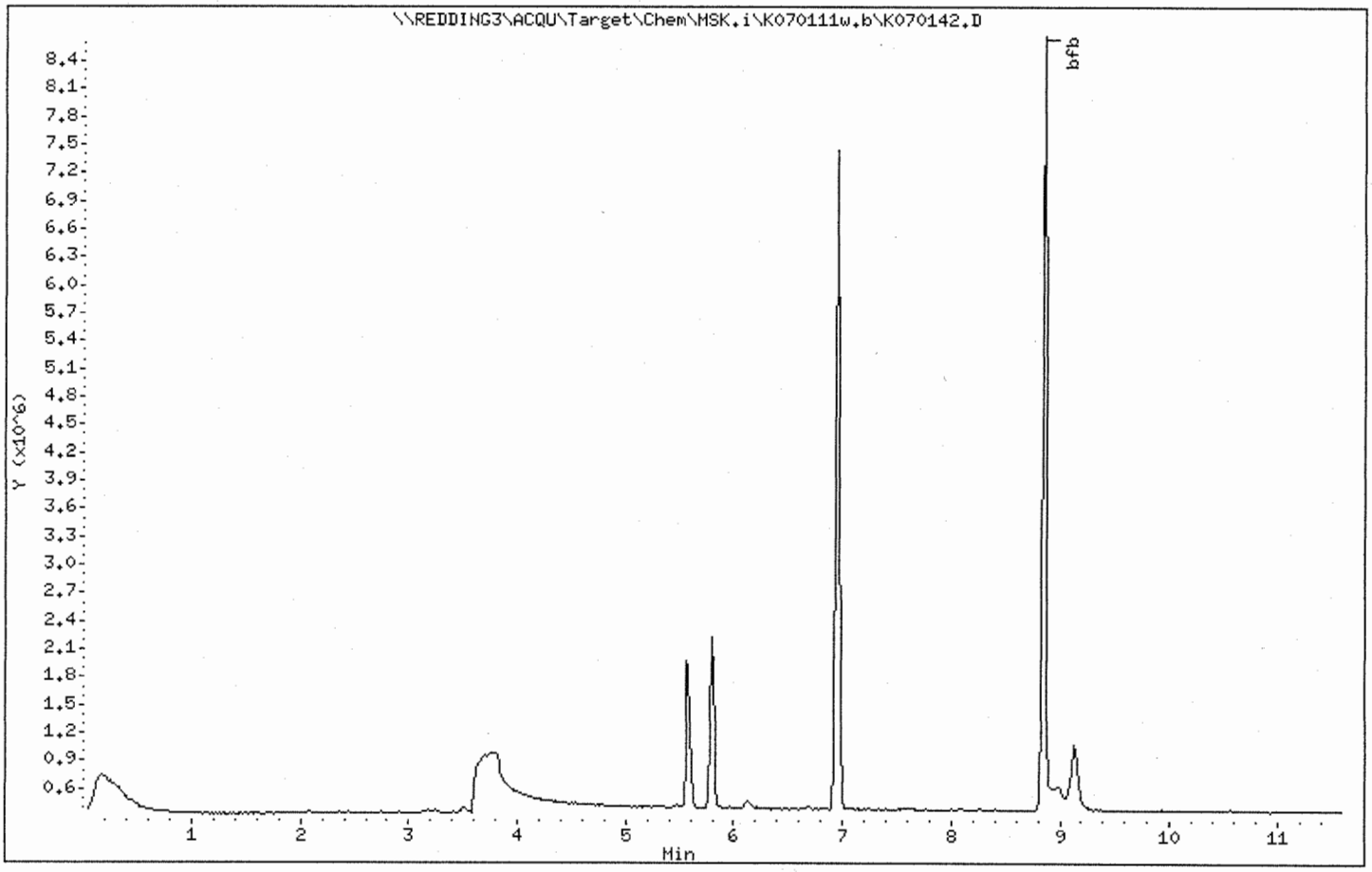
Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070342.D

Date : 16-JAN-2007 23:03

Client ID: BFB

Instrument: MSK.i

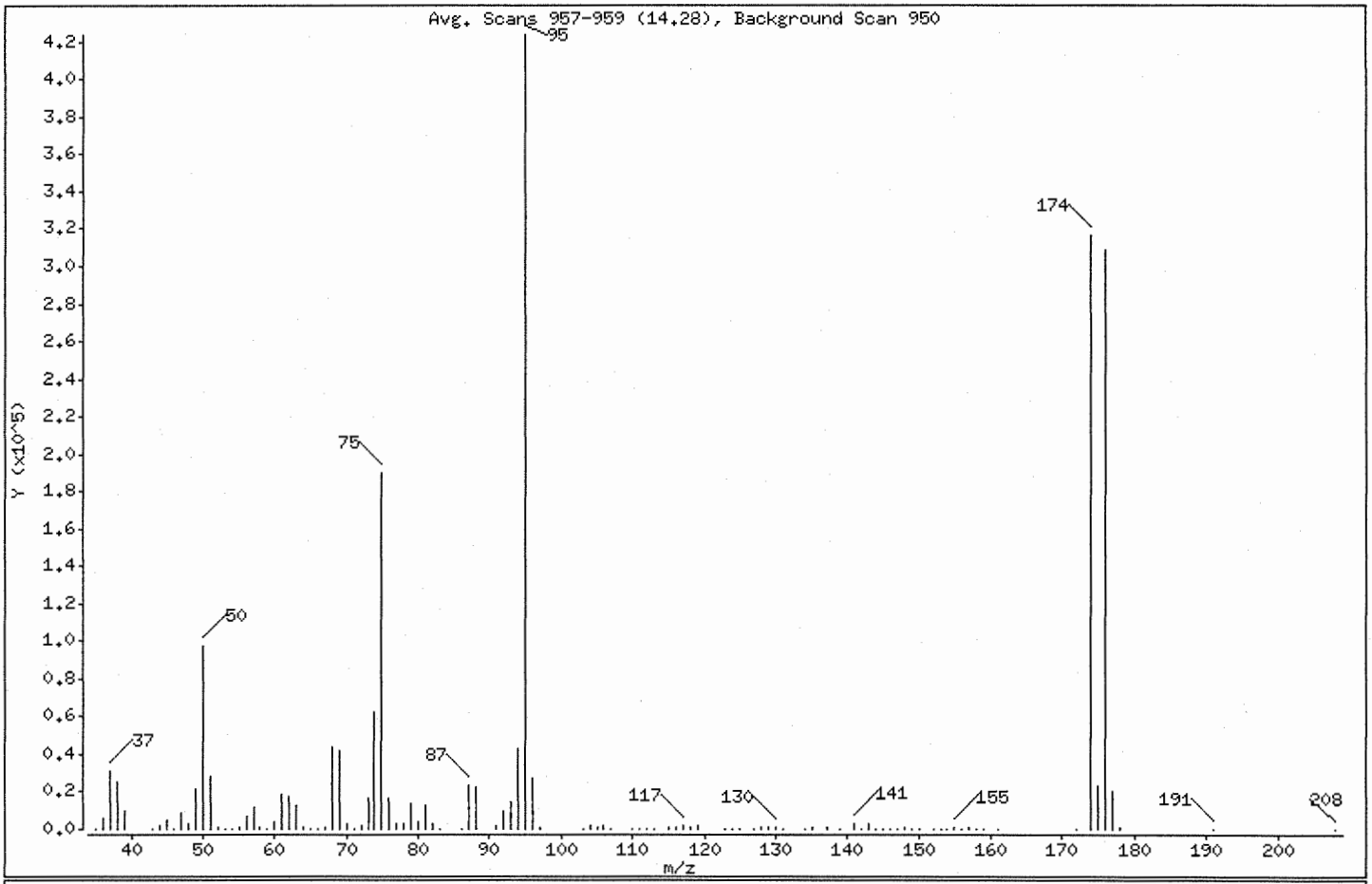
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.00
75	30.00 - 60.00% of mass 95	44.92
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	74.70
175	5.00 - 9.00% of mass 174	5.51 (7.38)
176	95.00 - 101.00% of mass 174	72.87 (97.55)
177	5.00 - 9.00% of mass 176	4.81 (6.61)

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070342.D

Date : 16-JAN-2007 23:03

Client ID: BFB

Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

Data File: K070342.D
Spectrum: Avg. Scans 957-959 (14.28), Background Scan 950
Location of Maximum: 95.00
Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	116	66.00	91	103.00	396	143.00	2776
36.00	5839	67.00	842	104.00	1660	144.00	226
37.00	30736	68.00	43360	105.00	728	145.00	95
38.00	25384	69.00	42208	106.00	1755	146.00	435
39.00	9574	70.00	3252	107.00	394	147.00	295
43.00	36	71.00	195	110.00	226	148.00	826
44.00	2405	72.00	2043	111.00	243	149.00	276
45.00	5150	73.00	16864	112.00	107	150.00	428
46.00	158	74.00	62128	113.00	241	152.00	225
47.00	8750	75.00	190336	115.00	563	153.00	215
48.00	3362	76.00	16311	116.00	1291	154.00	229
49.00	21200	77.00	2976	117.00	2002	155.00	833
50.00	97432	78.00	2454	118.00	1389	156.00	114
51.00	28360	79.00	13340	119.00	1993	157.00	576
52.00	1114	80.00	3651	123.00	98	158.00	90
53.00	235	81.00	12923	124.00	109	159.00	357
54.00	89	82.00	2601	125.00	87	161.00	322
55.00	1320	83.00	317	127.00	98	172.00	332
56.00	6667	86.00	250	128.00	1249	174.00	316480
57.00	12046	87.00	23048	129.00	604	175.00	23344
58.00	595	88.00	22720	130.00	1279	176.00	308736
59.00	95	91.00	1526	131.00	440	177.00	20400
60.00	4258	92.00	10219	134.00	172	178.00	656
61.00	18832	93.00	14910	135.00	643	191.00	101
62.00	17808	94.00	42816	137.00	514	208.00	308
63.00	12549	95.00	423680	139.00	103		
64.00	1202	96.00	27616	141.00	2875		
65.00	414	97.00	895	142.00	427		

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070342.D

Date : 16-JAN-2007 23:03

Client ID: BFB

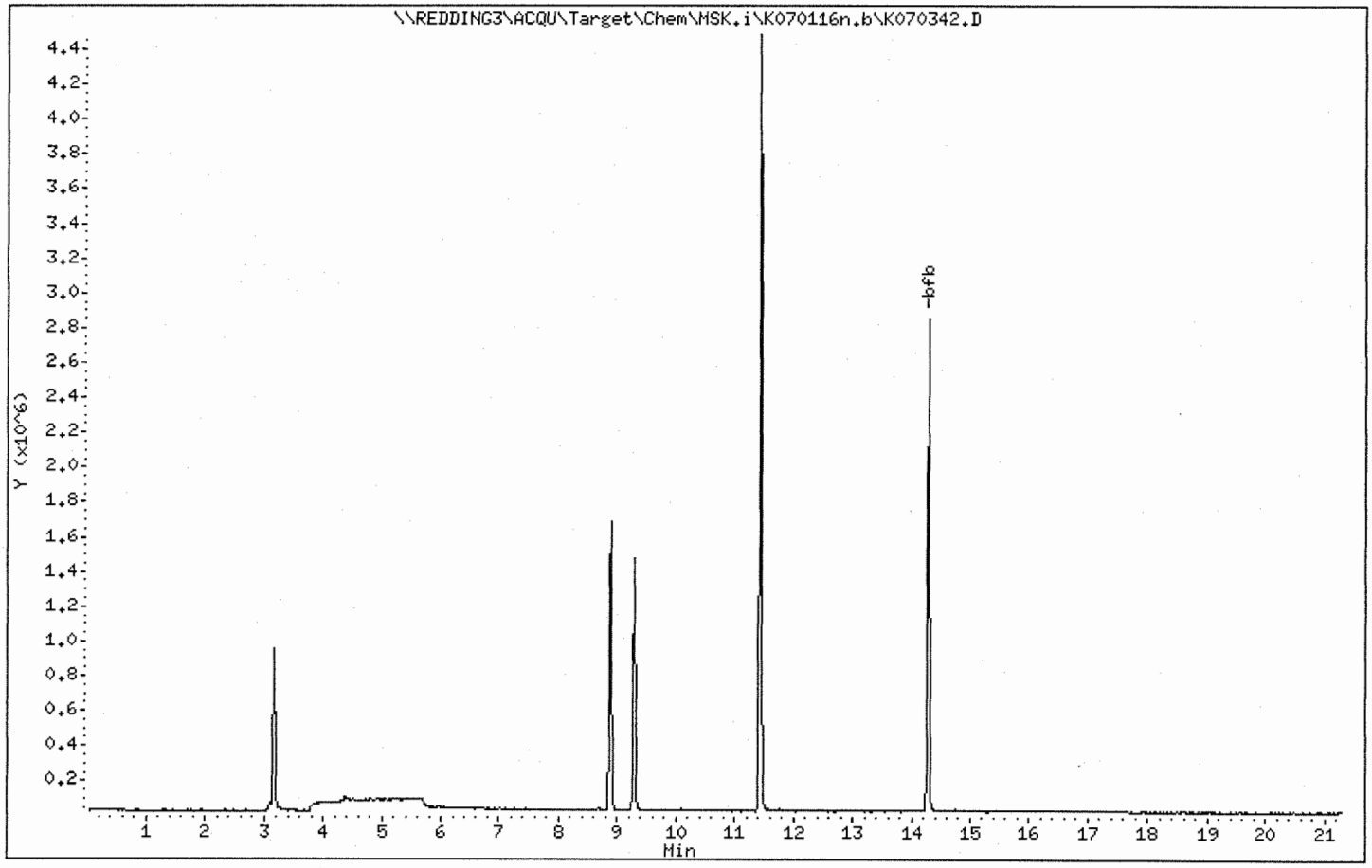
Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070427.D

Date : 18-JAN-2007 21:26

Client ID: BFB

Instrument: MSK.i

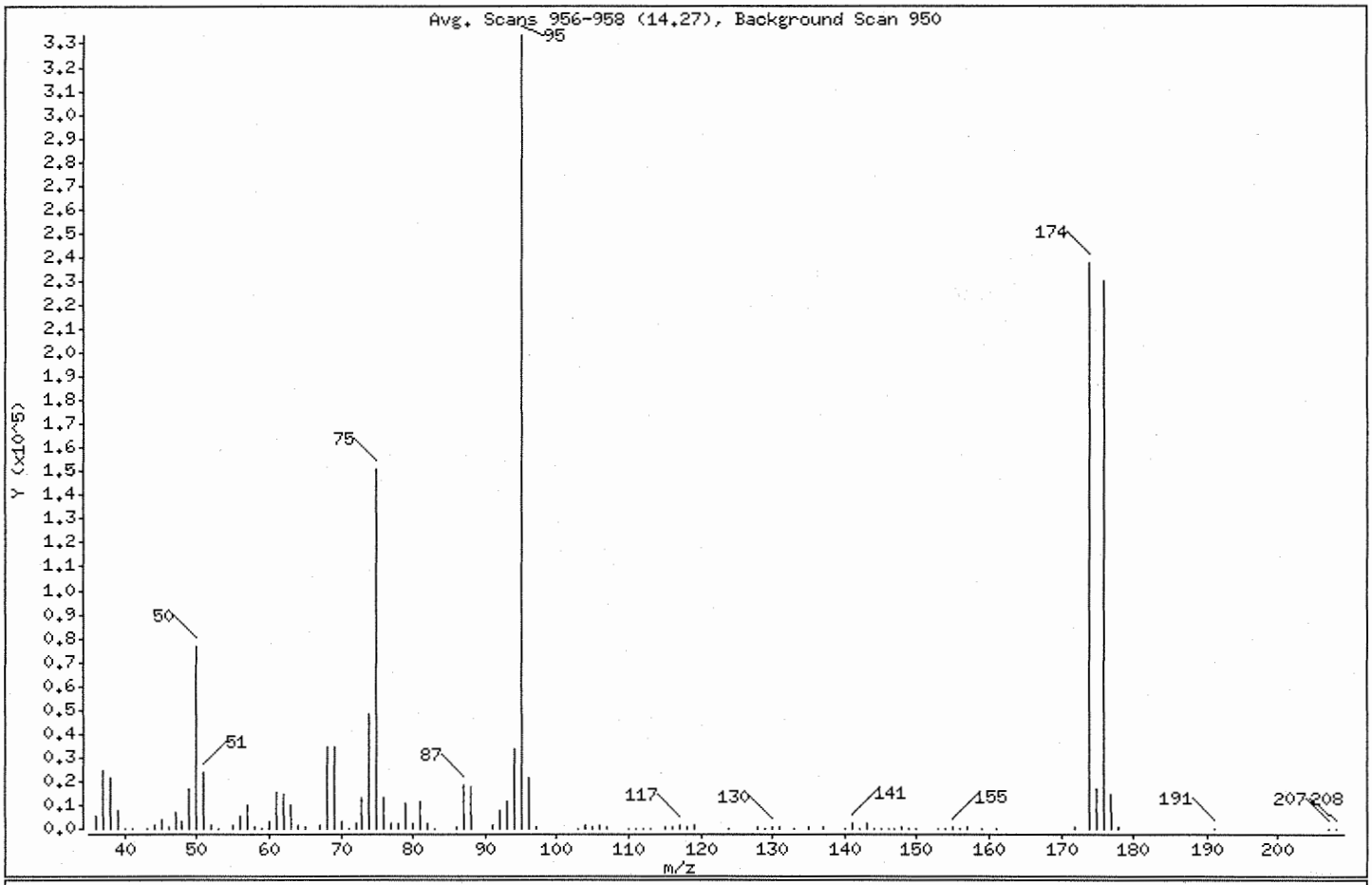
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.01
75	30.00 - 60.00% of mass 95	45.30
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	71.25
175	5.00 - 9.00% of mass 174	5.08 (7.13)
176	95.00 - 101.00% of mass 174	68.96 (96.79)
177	5.00 - 9.00% of mass 176	4.43 (6.42)

Date : 18-JAN-2007 21:26

Client ID: BFB Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624 Column diameter: 0.32

Data File: K070427.D
Spectrum: Avg. Scans 956-958 (14.27), Background Scan 950
Location of Maximum: 95.00
Number of points: 104

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5247	65.00	588	97.00	725	144.00	117
37.00	24704	67.00	1187	103.00	208	145.00	222
38.00	21160	68.00	34592	104.00	1503	146.00	355
39.00	7998	69.00	34680	105.00	539	147.00	130
40.00	206	70.00	2720	106.00	1567	148.00	657
41.00	118	71.00	86	107.00	408	149.00	187
43.00	246	72.00	1934	110.00	199	150.00	222
44.00	1296	73.00	12916	111.00	268	153.00	89
45.00	3776	74.00	48568	112.00	128	154.00	187
46.00	541	75.00	151040	113.00	102	155.00	529
47.00	6917	76.00	12798	115.00	404	156.00	141
48.00	2894	77.00	2629	116.00	1079	157.00	451
49.00	17240	78.00	2074	117.00	1798	159.00	250
50.00	76728	79.00	11003	118.00	991	161.00	302
51.00	23392	80.00	2675	119.00	1331	172.00	389
52.00	1246	81.00	11225	124.00	173	174.00	237568
53.00	205	82.00	2137	128.00	924	175.00	16944
55.00	1155	83.00	161	129.00	375	176.00	229952
56.00	5550	86.00	560	130.00	993	177.00	14766
57.00	9910	87.00	18128	131.00	402	178.00	443
58.00	566	88.00	17632	133.00	88	191.00	90
59.00	103	91.00	1303	135.00	426	207.00	168
60.00	3237	92.00	7771	137.00	452	208.00	195
61.00	15469	93.00	11667	140.00	211		
62.00	14273	94.00	33592	141.00	2312		
63.00	10278	95.00	333440	142.00	237		
64.00	1178	96.00	21824	143.00	2143		

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070427.D

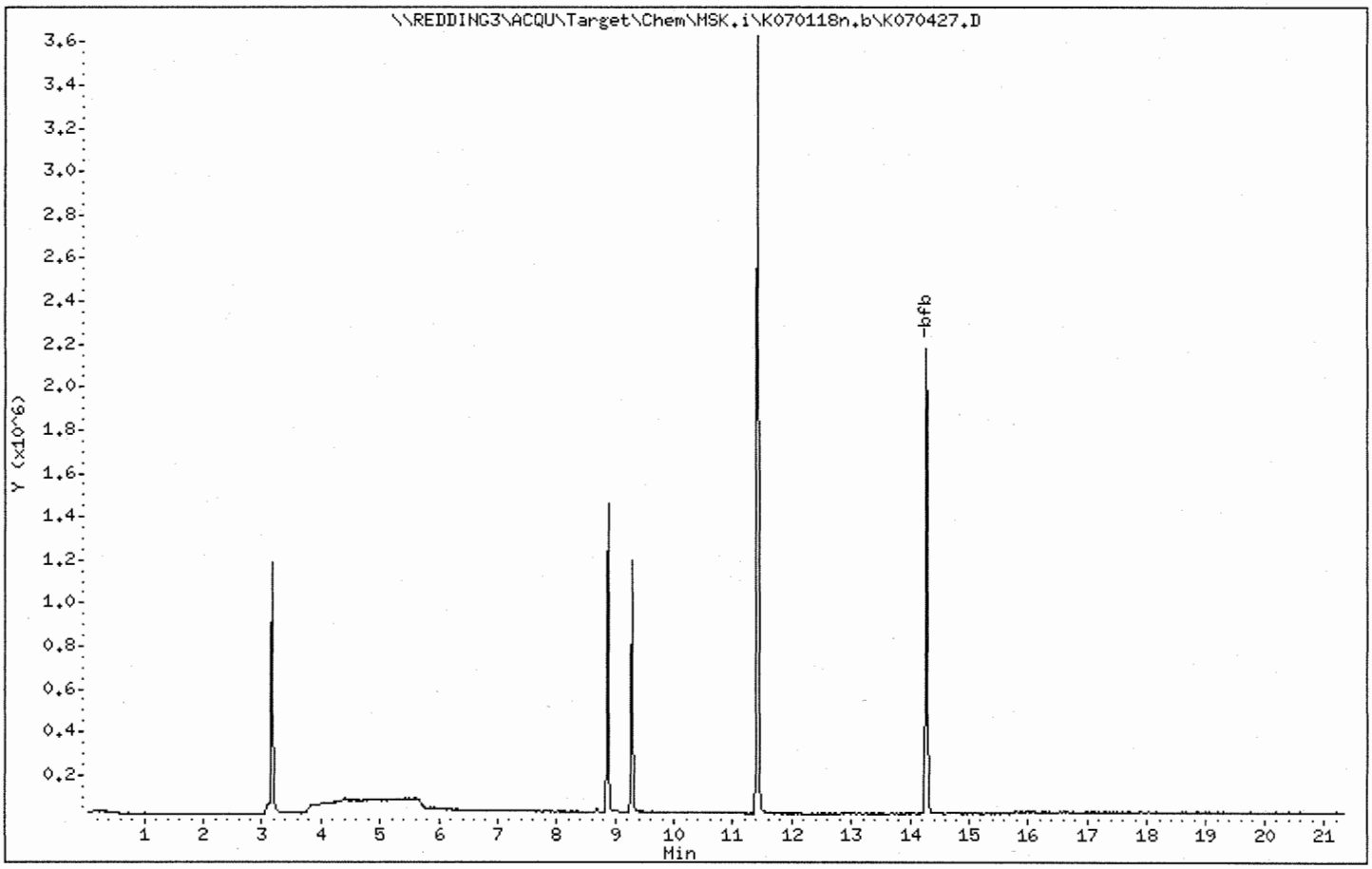
Date : 18-JAN-2007 21:26

Client ID: BFB Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624 Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0116W02
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloromethane	ND	U	0.24	1.0	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromomethane	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloroethane	ND	U	0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Acetone	ND	U	0.91	10	1	01/17/2007	01/17/2007	K0116W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/17/2007	01/17/2007	K0116W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/17/2007	01/17/2007	K0116W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Acetate	ND	U	0.24	10	1	01/17/2007	01/17/2007	K0116W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Butanone (MEK)	ND	U	0.66	10	1	01/17/2007	01/17/2007	K0116W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/17/2007	01/17/2007	K0116W02	
Chloroform	ND	U	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
Benzene	ND	U	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/17/2007	01/17/2007	K0116W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Dibromomethane	ND	U	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/17/2007	01/17/2007	K0116W02	
Toluene	ND	U	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Hexanone	ND	U	0.49	10	1	01/17/2007	01/17/2007	K0116W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/17/2007	01/17/2007	K0116W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0116W02
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/17/2007	01/17/2007	K0116W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/17/2007	01/17/2007	K0116W02	
Styrene	ND	U	0.070	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromoform	ND	U	0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromobenzene	ND	U	0.13	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/17/2007	01/17/2007	K0116W02	
Naphthalene	ND	U	0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	104	79-135	01/17/2007	
4-Bromofluorobenzene - SS	102	82-124	01/17/2007	
Dibromofluoromethane - SS	100	84-127	01/17/2007	
Toluene-d8 - SS	101	80-117	01/17/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070348.D
Lab Smp Id: K0116W02 Client Smp ID: K0116W02
Inj Date : 17-JAN-2007 01:41
Operator : X Inst ID: MSK.i
Smp Info : K0116W02;K0116W02
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:08 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 35 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.683	9.688	(1.000)	1104227	10.0000	
* 2	Chlorobenzene-d5	117	13.029	13.020	(1.000)	753116	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.617	15.608	(1.000)	316674	10.0000	
$ 4	Dibromofluoromethane	113	8.880	8.885	(0.917)	354764	9.96860	9.97
$ 5	1,2-Dichloroethane-d4	65	9.296	9.287	(0.960)	339407	10.3668	10.4
$ 6	Toluene-d8	98	11.438	11.428	(0.878)	991100	10.1437	10.1
$ 7	Bromofluorobenzene	174	14.294	14.284	(0.915)	290901	10.1529	10.2
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.670	4.661	(0.482)	2036	0.71607	0.716(aQ)
13	Chloroethane	64	4.730	4.824	(0.488)	3449	0.23968	0.240(a)
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

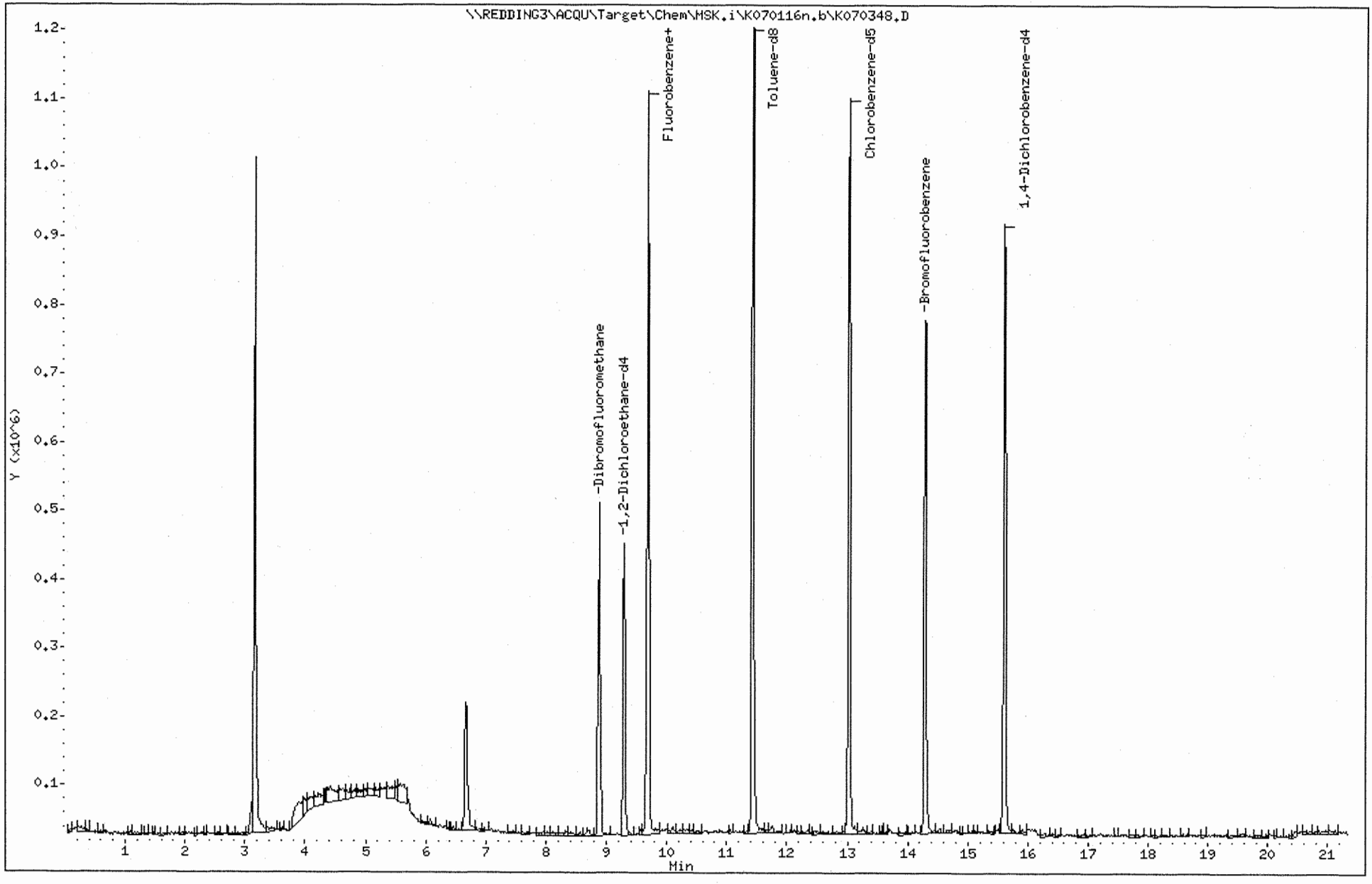
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.683	9.376	(1.000)	14112	0.34210	0.342 (a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070348.D
Date : 17-JAN-2007 01:41
Client ID: K0116W02
Sample Info: K0116W02;K0116W02
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070348.D

Date : 17-JAN-2007 01:41

Client ID: K0116W02

Instrument: MSK.i

Sample Info: K0116W02;K0116W02

Purge Volume: 10.0

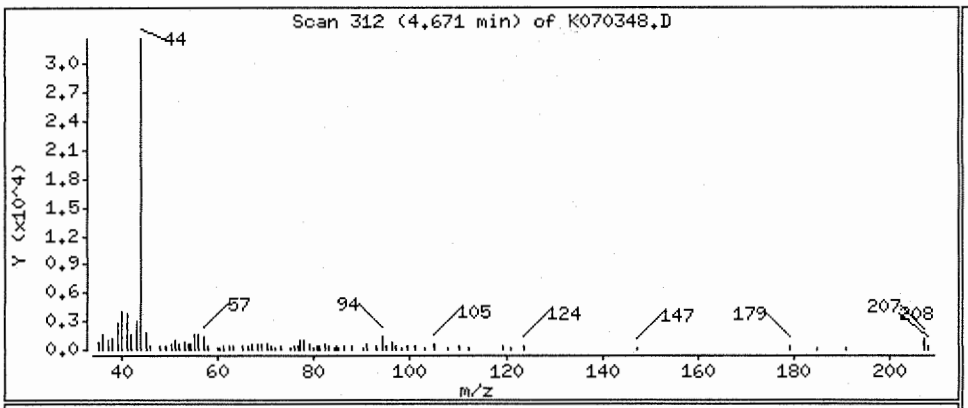
Operator: X

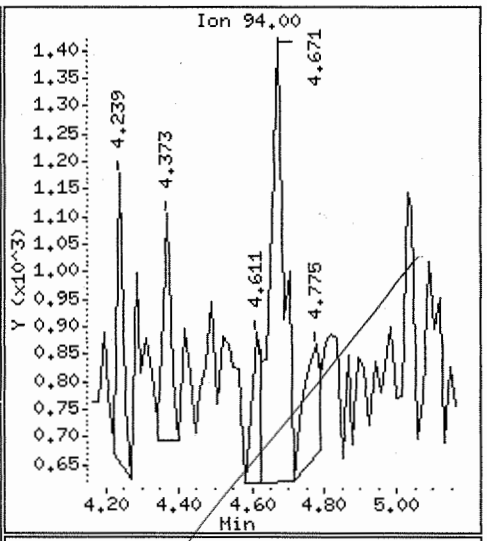
Column phase: DB-624

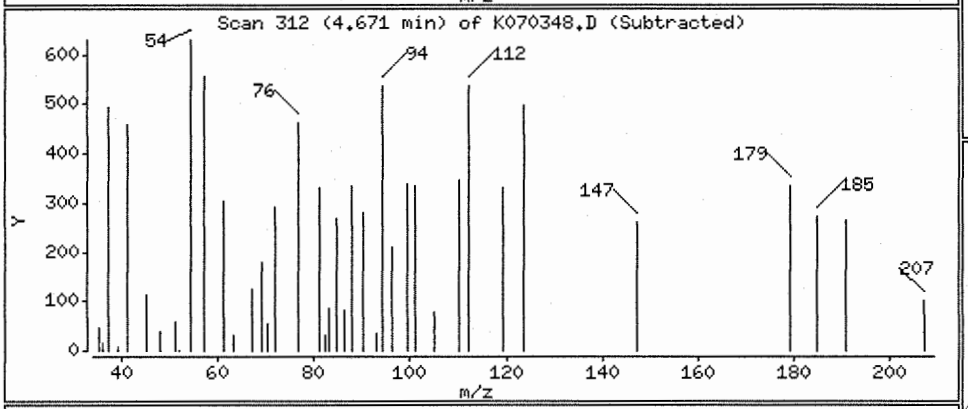
Column diameter: 0.32

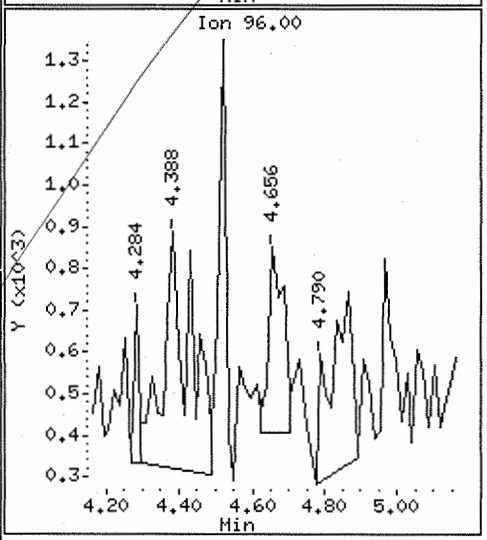
12 Bromomethane

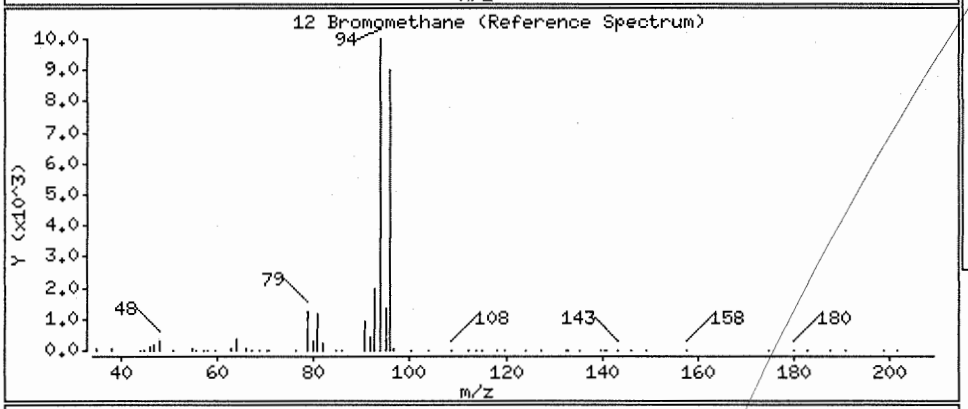
Concentration: 0.716 ug/L

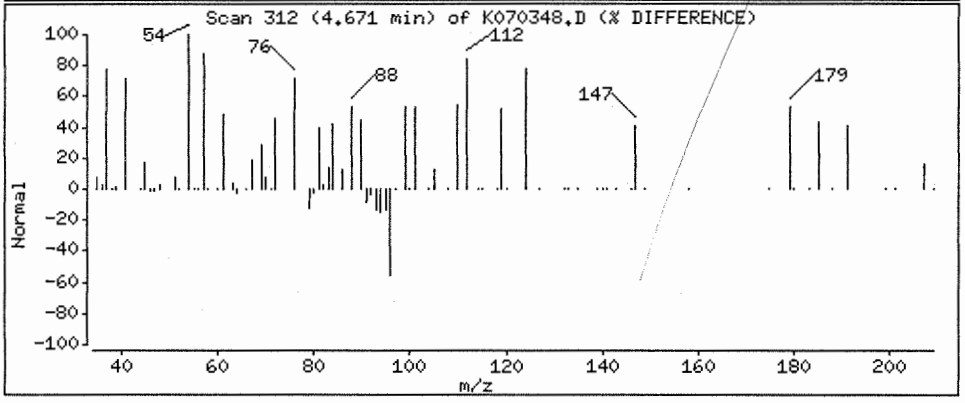












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070348.D

Date : 17-JAN-2007 01:41

Client ID: K0116W02

Instrument: MSK.i

Sample Info: K0116W02;K0116W02

Purge Volume: 10.0

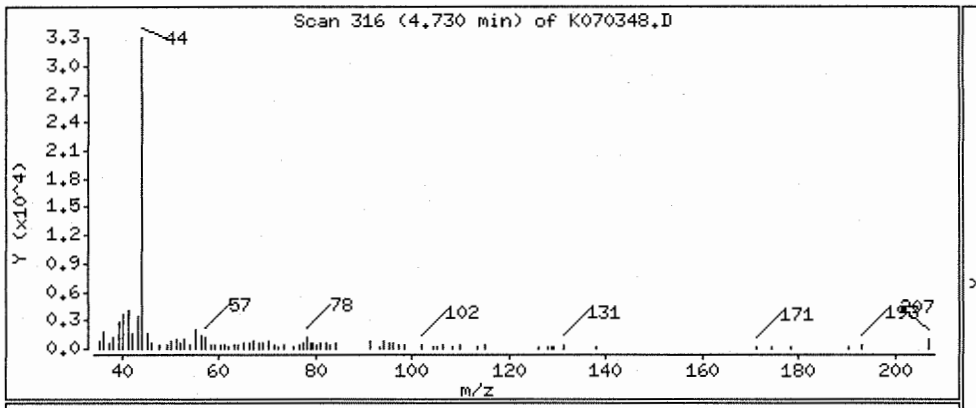
Operator: X

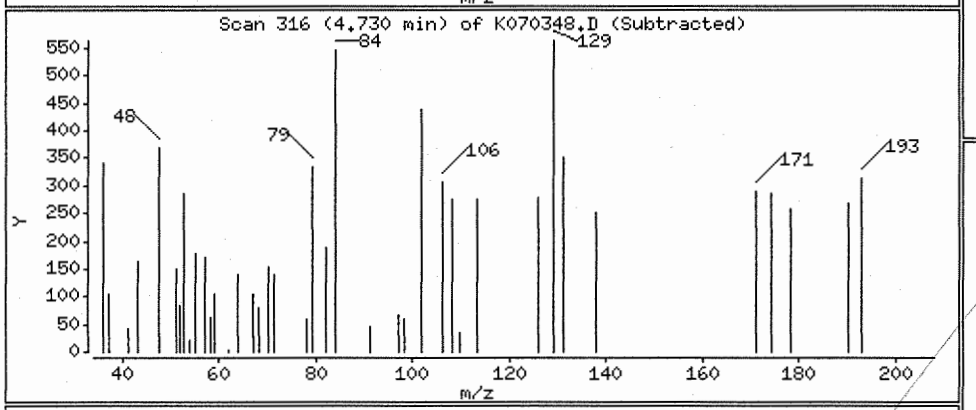
Column phase: DB-624

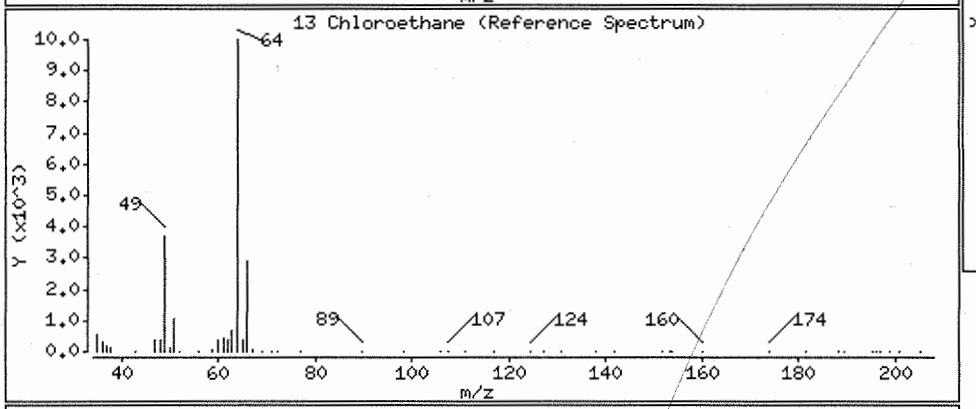
Column diameter: 0.32

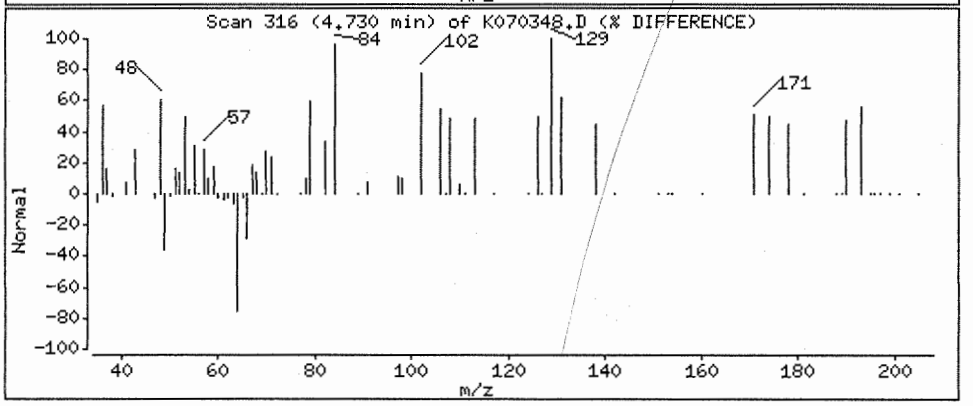
13 Chloroethane

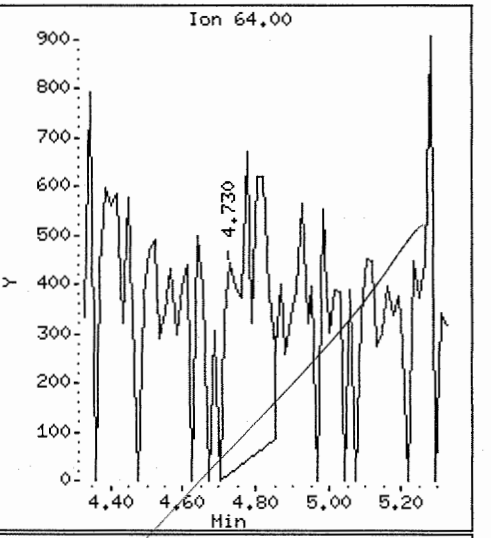
Concentration: 0.240 ug/L

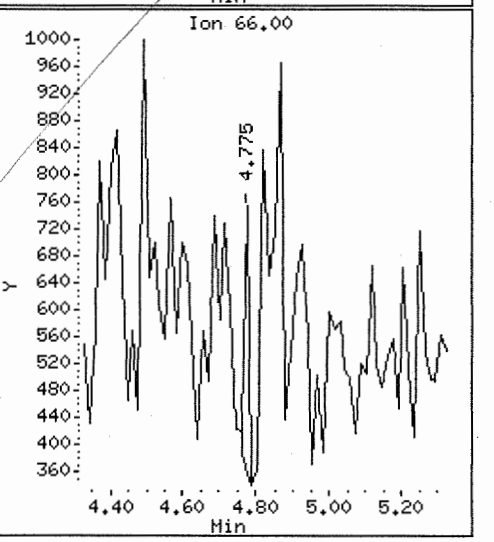












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070348.D

Date : 17-JAN-2007 01:41

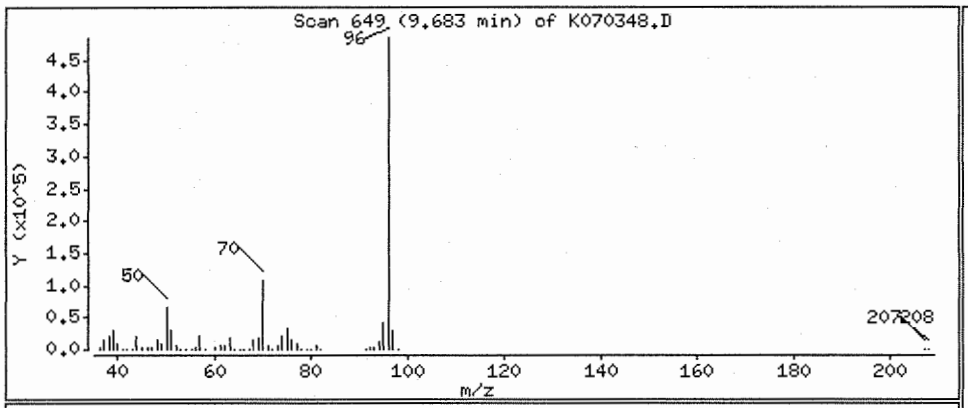
Client ID: K0116W02 Instrument: MSK.i

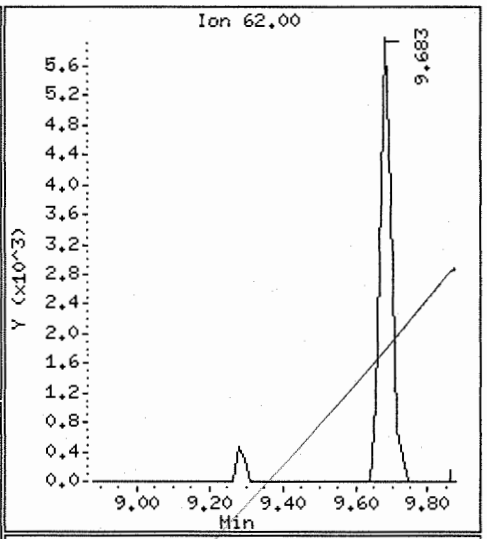
Sample Info: K0116W02;K0116W02

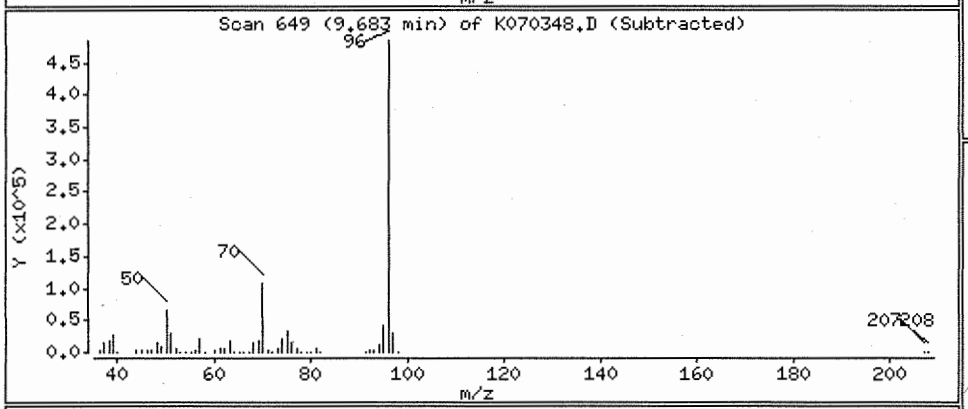
Purge Volume: 10.0 Operator: X

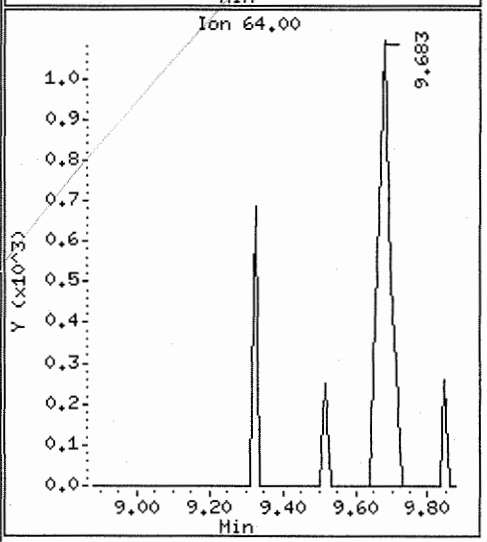
Column phase: DB-624 Column diameter: 0.32

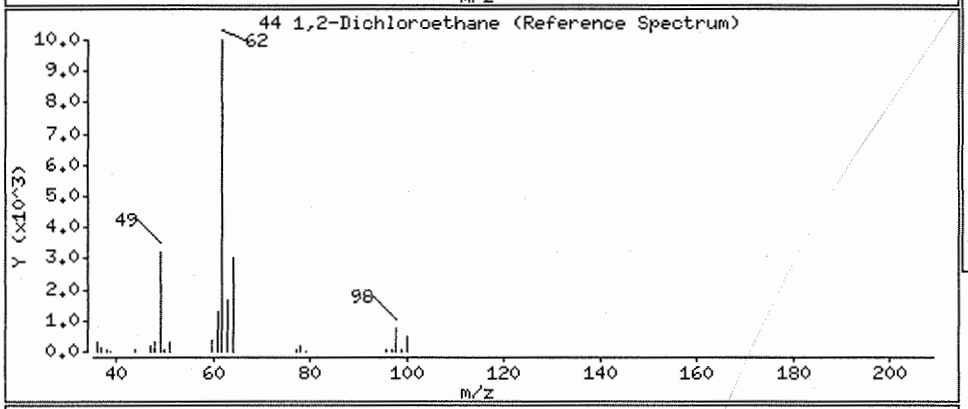
44 1,2-Dichloroethane Concentration: 0.342 ug/L

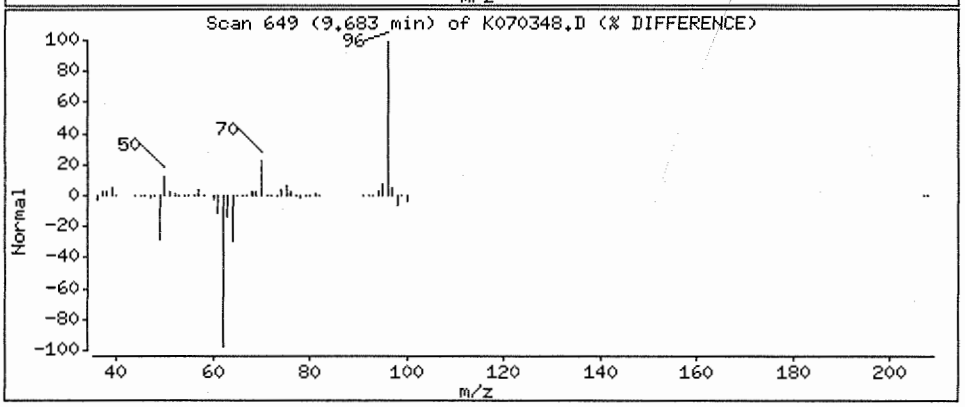












COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0118W02
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	ND	U	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	**0.16**	J	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0118W02
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	111	79-135	01/19/2007	
4-Bromofluorobenzene - SS	104	82-124	01/19/2007	
Dibromofluoromethane - SS	100	84-127	01/19/2007	
Toluene-d8 - SS	101	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070433.D
Lab Smp Id: K0118W02 Client Smp ID: K0118W02
Inj Date : 19-JAN-2007 00:05
Operator : X Inst ID: MSK.i
Smp Info : K0118W02;K0118W02
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 35 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

B01/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	9.669	9.673	(1.000)	1058104	10.0000	
*	2 Chlorobenzene-d5	117	13.016	13.020	(1.000)	713243	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.604	15.593	(1.000)	289379	10.0000	
$	4 Dibromofluoromethane	113	8.866	8.870	(0.917)	340527	9.98564	9.98
$	5 1,2-Dichloroethane-d4	65	9.282	9.287	(0.960)	349185	11.1303	11.1
$	6 Toluene-d8	98	11.424	11.414	(0.878)	931875	10.0707	10.1
$	7 Bromofluorobenzene	174	14.280	14.284	(0.915)	271187	10.3576	10.4
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	Compound Not Detected.					
	12 Bromomethane	94	4.642	4.646	(0.480)	1418	0.68762	0.688(aQ)
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	17 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Methylene chloride	84	Compound Not Detected.					
	26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	27 tert-Butylmethylether	73	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 Vinyl acetate	43	Compound Not Detected.					

1/19/7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.673	8.677	(0.897)	9311	0.16507	0.165(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.669	9.361	(1.000)	15162	0.38357	0.384(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070433.D

Date : 19-JAN-2007 00:05

Client ID: K0118W02

Instrument: MSK.i

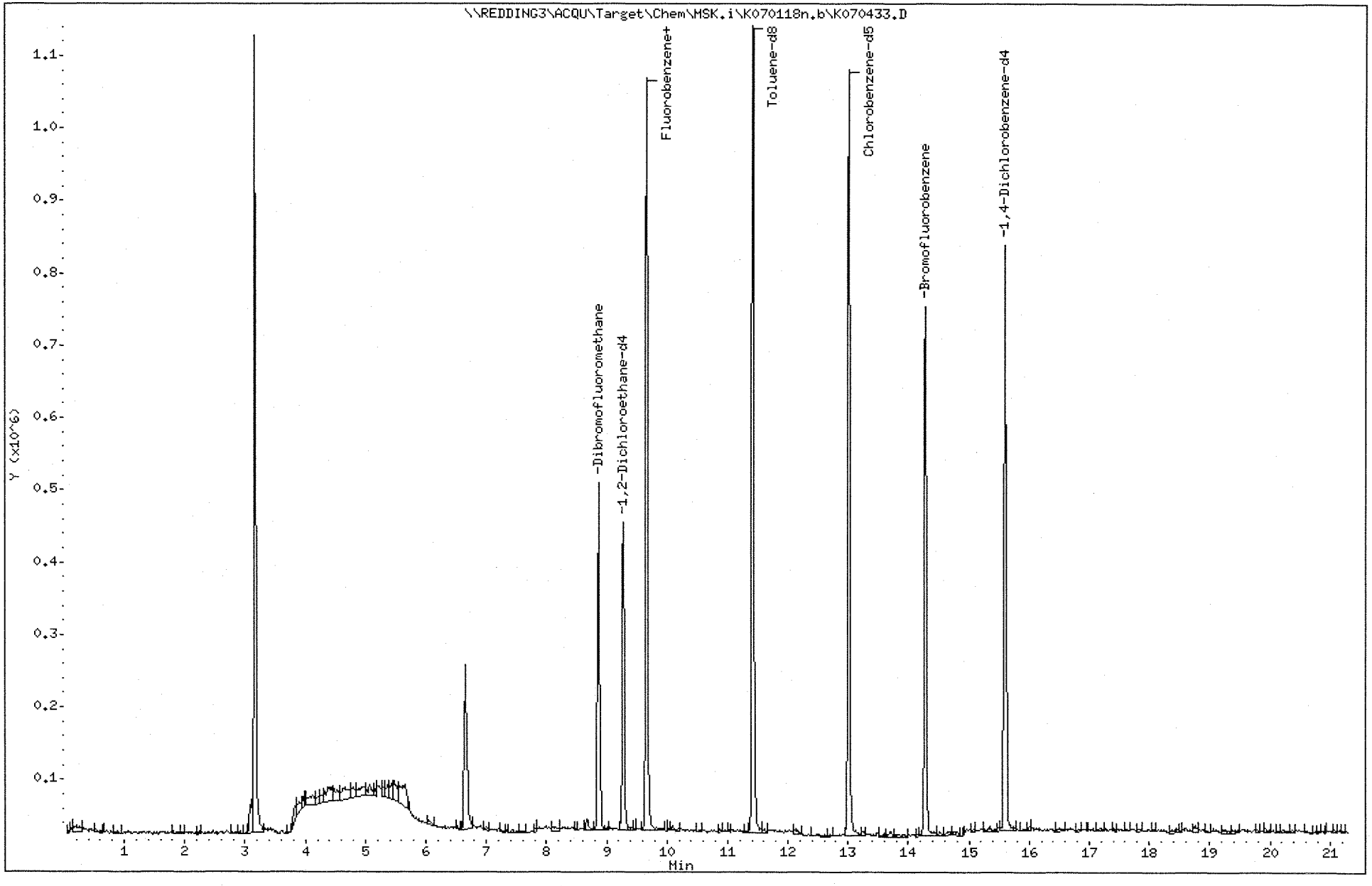
Sample Info: K0118W02;K0118W02

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070433.D

Date : 19-JAN-2007 00:05

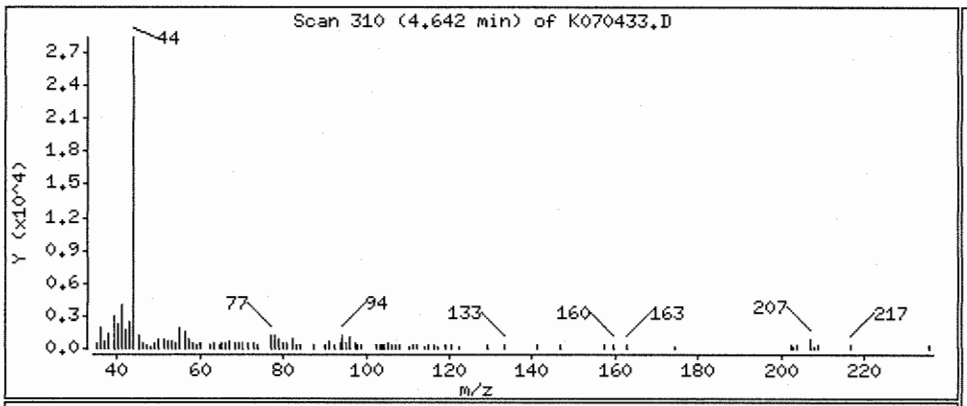
Client ID: K0118W02 Instrument: MSK.i

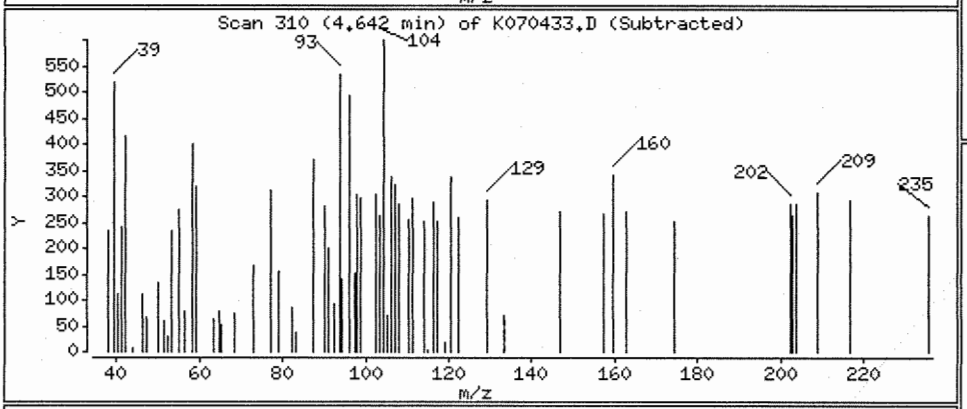
Sample Info: K0118W02;K0118W02

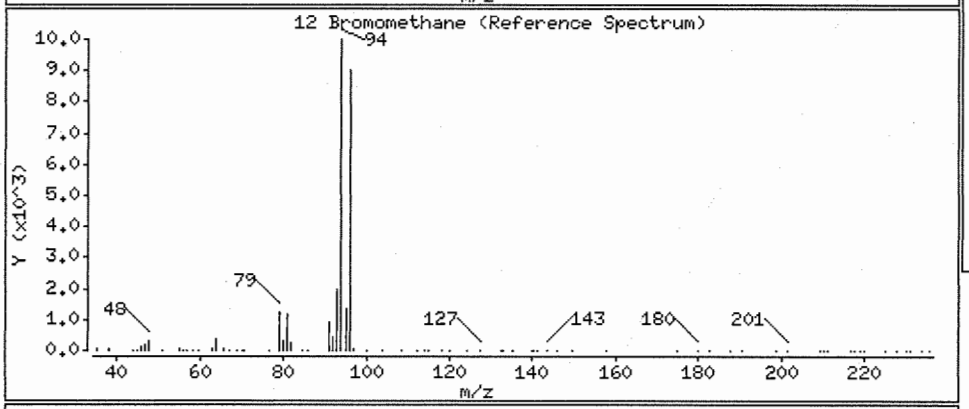
Purge Volume: 10.0 Operator: X

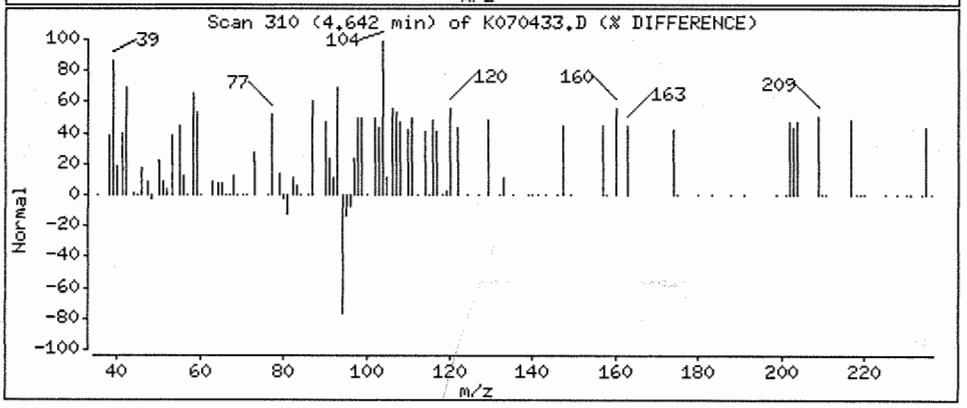
Column phase: DB-624 Column diameter: 0.32

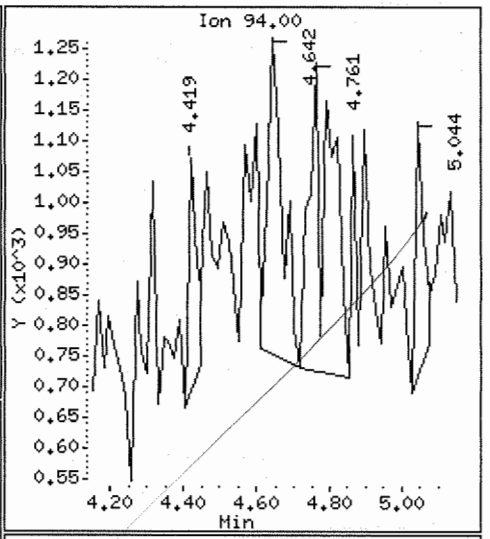
12 Bromomethane Concentration: 0.688 ug/L

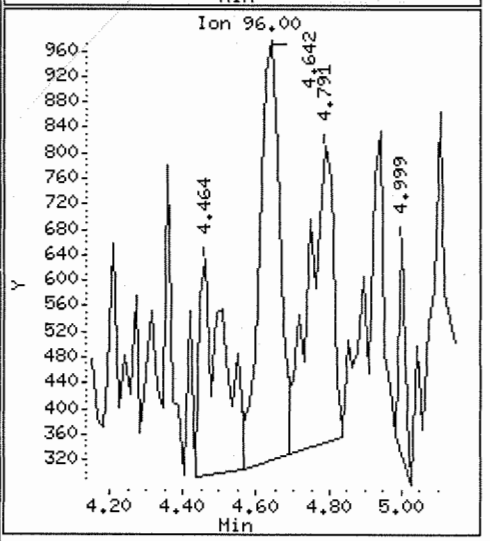












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070433.D

Date : 19-JAN-2007 00:05

Client ID: K0118W02

Instrument: MSK.i

Sample Info: K0118W02;K0118W02

Purge Volume: 10.0

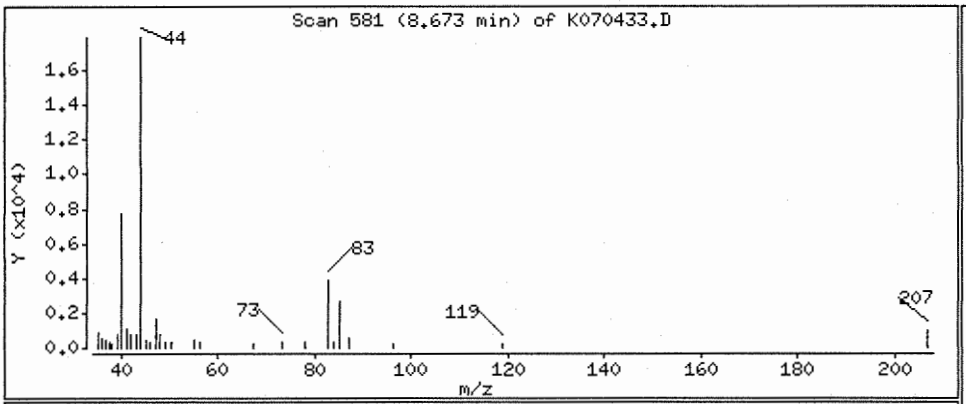
Operator: X

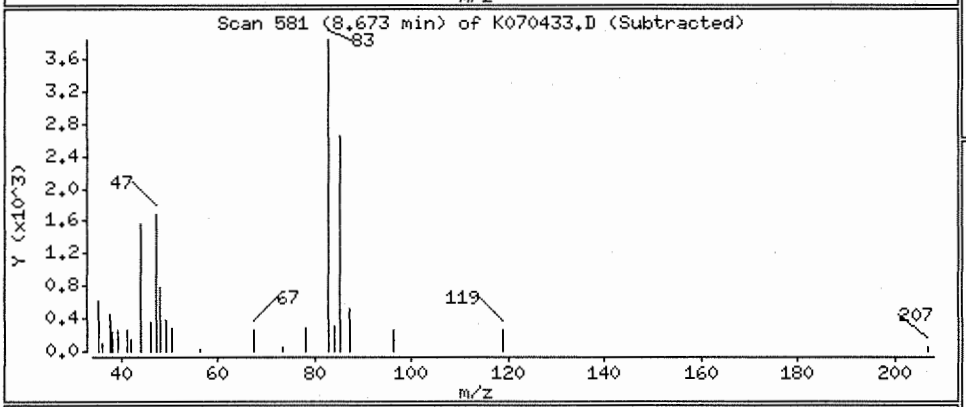
Column phase: DB-624

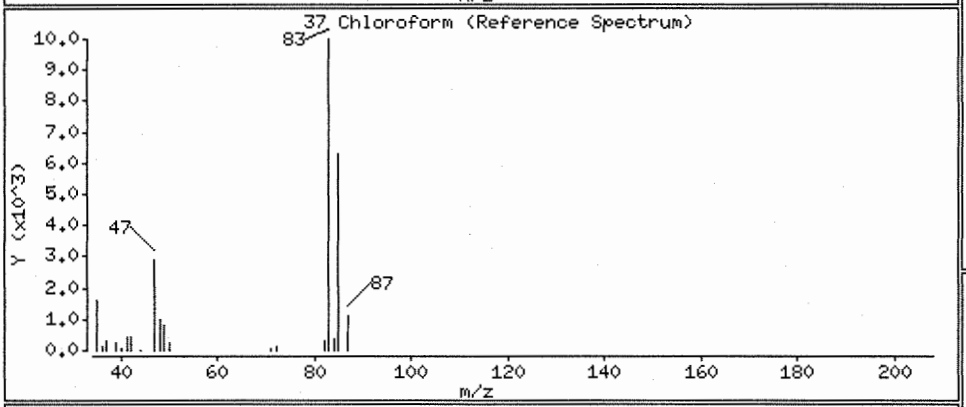
Column diameter: 0.32

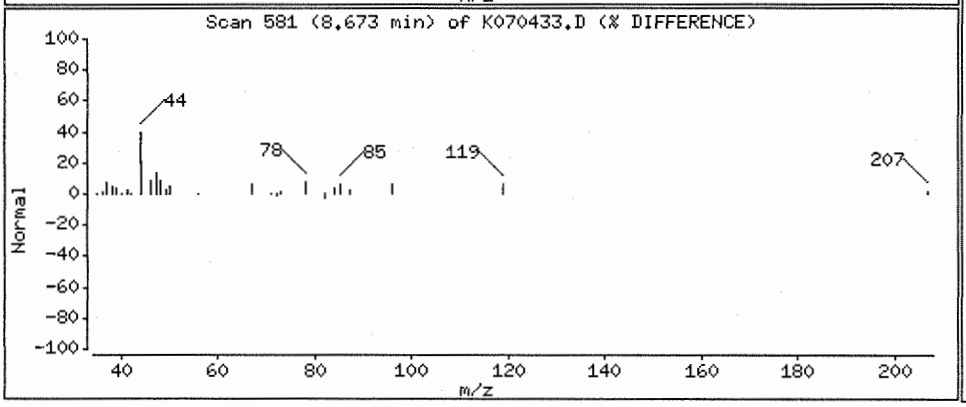
37 Chloroform

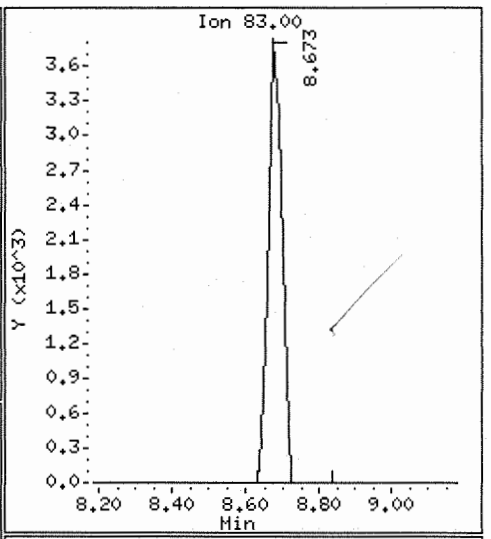
Concentration: 0.165 ug/L

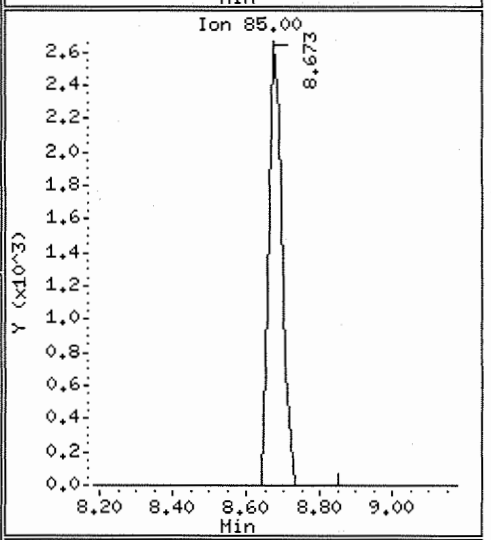


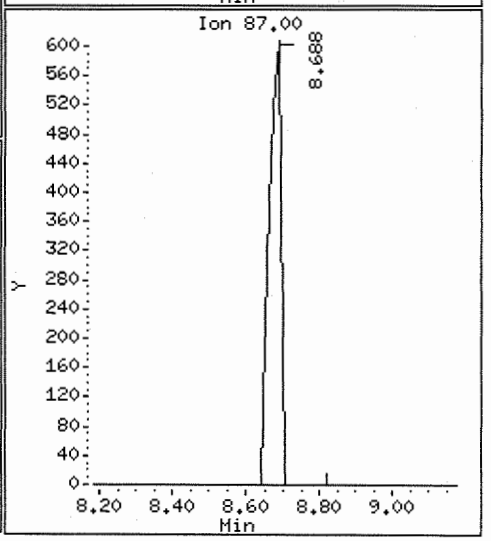












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070433.D

Date : 19-JAN-2007 00:05

Client ID: K0118W02

Instrument: MSK.i

Sample Info: K0118W02;K0118W02

Purge Volume: 10.0

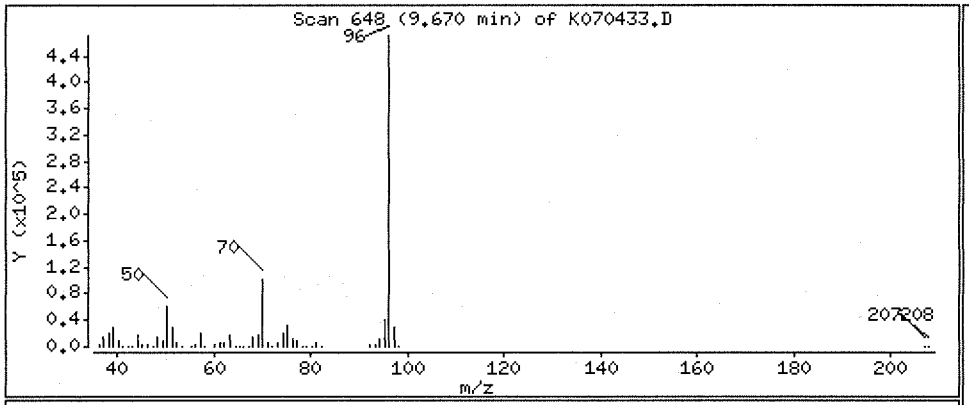
Operator: X

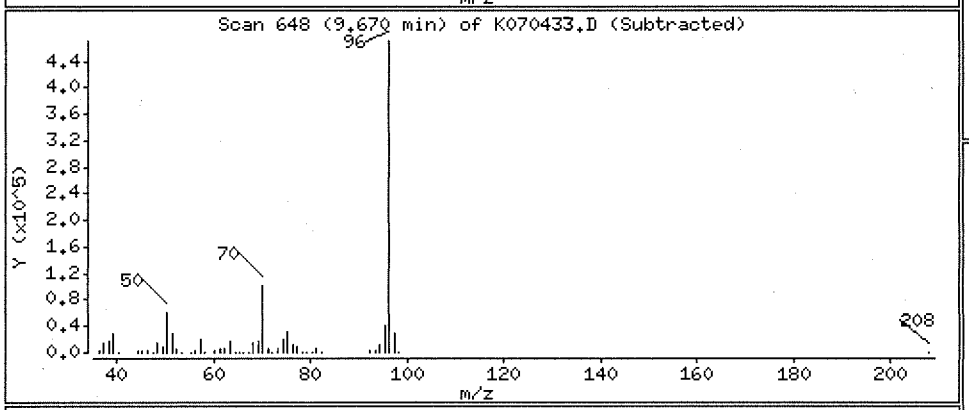
Column phase: DB-624

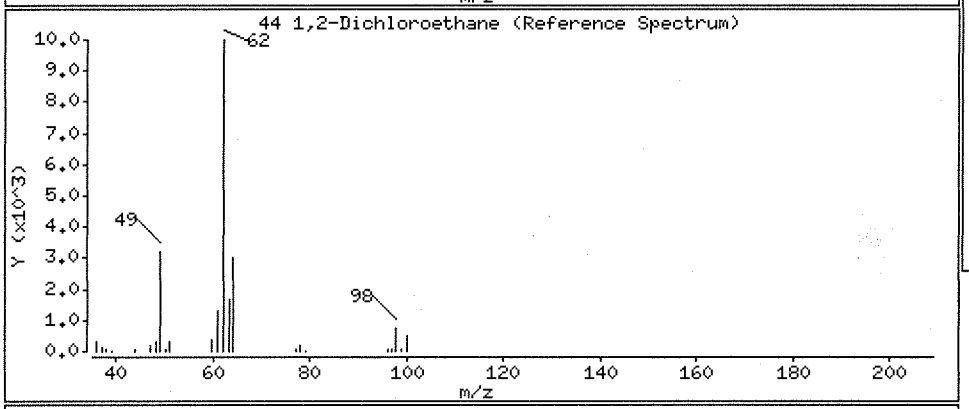
Column diameter: 0.32

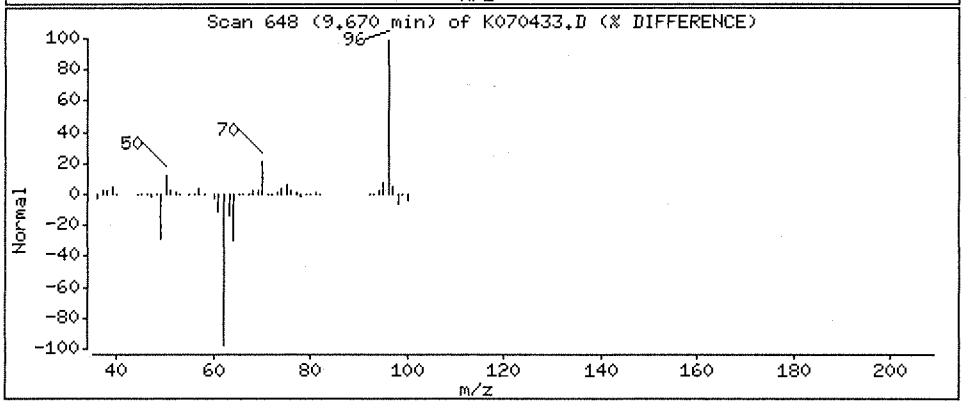
44 1,2-Dichloroethane

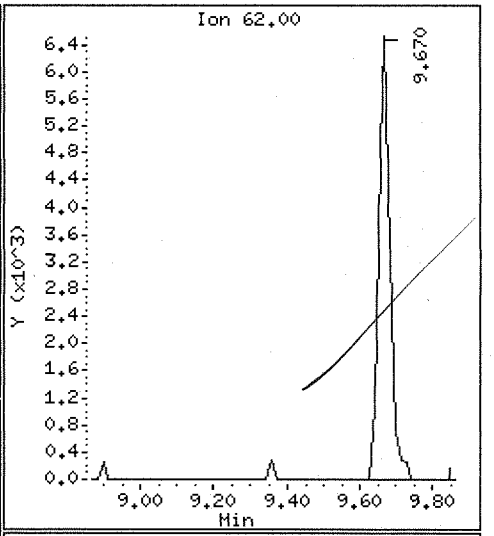
Concentration: 0.384 ug/L

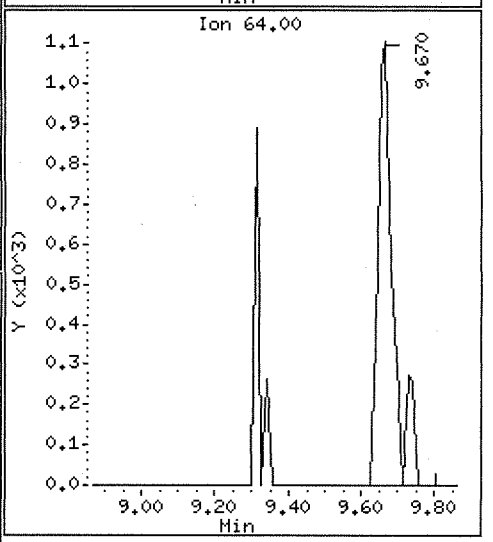












COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: K0116W02LCS
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**10.9**		0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloromethane	**9.56**		0.24	1.0	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Chloride	**9.93**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromomethane	**10.2**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloroethane	**10.0**		0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Trichlorofluoromethane (CFC 11)	**11.0**		0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichlorotrifluoroethane	**9.98**		0.15	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethene (1,1-DCE)	**10.1**		0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Acetone	**46.4**		0.91	10	1	01/17/2007	01/17/2007	K0116W02	
Carbon Disulfide	**9.33**		0.14	2.0	1	01/17/2007	01/17/2007	K0116W02	
Dichloromethane (Methylene Chloride)	**9.95**		0.19	2.0	1	01/17/2007	01/17/2007	K0116W02	
trans-1,2-Dichloroethene	**9.32**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Methyl tert-Butyl Ether	**8.44**		0.11	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethane (1,1-DCA)	**10.1**		0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Acetate	**8.66**	J	0.24	10	1	01/17/2007	01/17/2007	K0116W02	
2,2-Dichloropropane	**8.44**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
cis-1,2-Dichloroethene	**9.93**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Butanone (MEK)	**43.6**		0.66	10	1	01/17/2007	01/17/2007	K0116W02	
Bromochloromethane	**9.29**		0.17	0.50	1	01/17/2007	01/17/2007	K0116W02	
Chloroform	**9.93**		0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1-Trichloroethane (TCA)	**10.2**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloropropene	**10.1**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
Carbon Tetrachloride	**9.51**		0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
Benzene	**9.77**		0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloroethane (EDC)	**10.1**		0.10	0.50	1	01/17/2007	01/17/2007	K0116W02	
Trichloroethene (TCE)	**9.70**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloropropane	**9.69**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Dibromomethane	**9.34**		0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromodichloromethane	**9.54**		0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
cis-1,3-Dichloropropene	**9.03**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Methyl-2-pentanone (MIBK)	**43.8**		0.56	10	1	01/17/2007	01/17/2007	K0116W02	
Toluene	**10.1**		0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
trans-1,3-Dichloropropene	**9.24**		0.090	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichloroethane	**10.6**		0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Tetrachloroethene (PCE)	**10.0**		0.090	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichloropropane	**10.0**		0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Hexanone	**46.5**		0.49	10	1	01/17/2007	01/17/2007	K0116W02	
Dibromochloromethane	**8.86**		0.12	1.0	1	01/17/2007	01/17/2007	K0116W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: K0116W02LCS
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**9.48**		0.19	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chlorobenzene	**9.78**		0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1,2-Tetrachloroethane	**8.93**		0.19	0.50	1	01/17/2007	01/17/2007	K0116W02	
Ethylbenzene	**10.4**		0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
Xylenes, Total	**30.2**		0.10	1.5	1	01/17/2007	01/17/2007	K0116W02	
Styrene	**9.64**		0.070	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromoform	**7.93**		0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Isopropylbenzene	**10.2**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2,2-Tetrachloroethane	**9.61**		0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromobenzene	**9.60**		0.13	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichloropropane	**9.77**		0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Propylbenzene	**9.48**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
2-Chlorotoluene	**9.29**		0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3,5-Trimethylbenzene	**9.83**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
4-Chlorotoluene	**9.29**		0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
tert-Butylbenzene	**9.36**		0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trimethylbenzene	**9.90**		0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
sec-Butylbenzene	**10.4**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichlorobenzene	**9.62**		0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Isopropyltoluene	**9.29**		0.060	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,4-Dichlorobenzene	**9.62**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Butylbenzene	**9.93**		0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichlorobenzene	**9.51**		0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dibromo-3-chloropropane (DBCP)	**35.3**		0.95	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trichlorobenzene	**9.74**		0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
Hexachlorobutadiene	**9.09**		0.26	1.0	1	01/17/2007	01/17/2007	K0116W02	
Naphthalene	**8.48**		0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichlorobenzene	**9.58**		0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	100	79-135	01/17/2007	
4-Bromofluorobenzene - SS	95	82-124	01/17/2007	
Dibromofluoromethane - SS	96	84-127	01/17/2007	
Toluene-d8 - SS	100	80-117	01/17/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070345.D
Lab Smp Id: K0116W02LCS Client Smp ID: K0116W02LCS
Inj Date : 17-JAN-2007 00:22
Operator : X Inst ID: MSK.i
Smp Info : K0116W02LCS;K0116W02LCS
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:08 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

1/18/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	9.688	9.688	(1.000)	1143332	10.0000	
*	2 Chlorobenzene-d5	117	13.020	13.020	(1.000)	767682	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.608	15.608	(1.000)	346692	10.0000	
$	4 Dibromofluoromethane	113	8.885	8.885	(0.917)	353923	9.60482	9.60
$	5 1,2-Dichloroethane-d4	65	9.287	9.287	(0.959)	339848	10.0252	10.0
$	6 Toluene-d8	98	11.429	11.428	(0.878)	991317	9.95339	9.95
$	7 Bromofluorobenzene	174	14.284	14.284	(0.915)	299218	9.53896	9.54
	8 Dichlorodifluoromethane	85	3.501	3.501	(0.361)	282896	10.9086	10.9(Q)
	10 Chloromethane	50	3.828	3.828	(0.395)	340792	9.56174	9.56
	11 Vinyl chloride	62	4.051	4.051	(0.418)	307021	9.93019	9.93
	12 Bromomethane	94	4.661	4.661	(0.481)	194344	10.2108	10.2
	13 Chloroethane	64	4.825	4.824	(0.498)	149566	10.0381	10.0
	14 Trichlorofluoromethane	101	5.256	5.256	(0.543)	345770	10.9936	11.0
	15 1,1,2-Trichlorotrifluoroethane	101	6.044	6.044	(0.624)	302561	9.97846	9.98
	17 1,1-Dichloroethene	96	6.059	6.059	(0.625)	279542	10.1129	10.1
	18 Acetone	43	6.074	6.074	(0.627)	355906	46.3632	46.4
	21 Carbon disulfide	76	6.446	6.446	(0.665)	1109793	9.33388	9.33
	22 Methylene chloride	84	6.714	6.713	(0.693)	359732	9.94829	9.95
	26 trans-1,2-Dichloroethene	96	7.100	7.100	(0.733)	319017	9.31973	9.32
	27 tert-Butylmethylether	73	7.085	7.085	(0.731)	630316	8.44003	8.44(Q)
	28 1,1-Dichloroethane	63	7.636	7.636	(0.788)	655363	10.1035	10.1
	30 Vinyl acetate	43	7.636	7.636	(0.788)	1250651	8.65820	8.66(a)

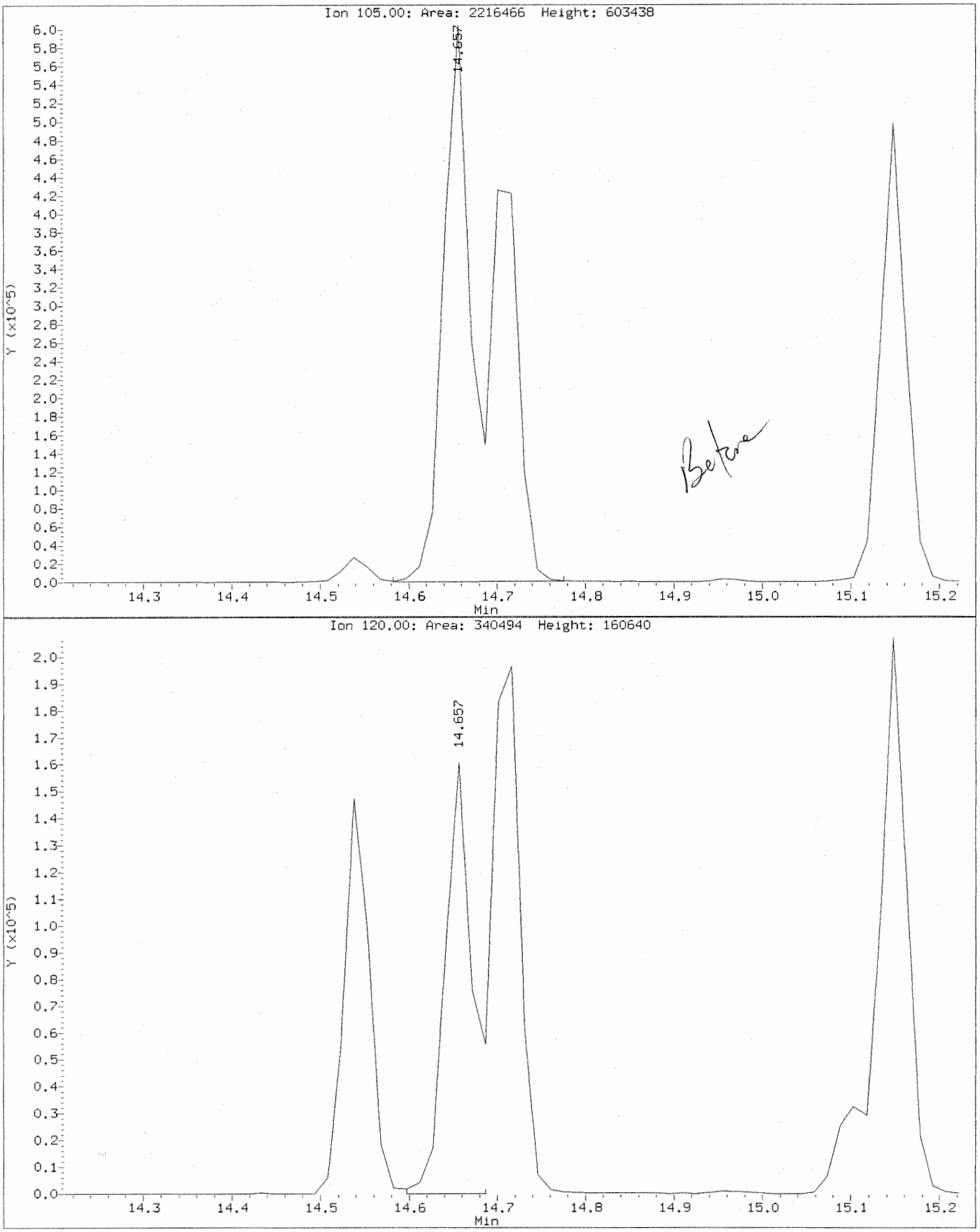
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	8.365	8.364	(0.863)	364348	8.44079	8.44(Q)
33	cis-1,2-Dichloroethene	96	8.350	8.349	(0.862)	373127	9.92974	9.93
35	2-Butanone	43	8.305	8.305	(0.857)	582768	43.5512	43.6
36	Bromochloromethane	128	8.632	8.632	(0.891)	165557	9.29417	9.29(Q)
37	Chloroform	83	8.692	8.692	(0.897)	605106	9.92822	9.93
38	1,1,1-Trichloroethane	97	8.974	8.974	(0.926)	433322	10.2418	10.2(Q)
40	1,1-Dichloropropene	75	9.153	9.153	(0.945)	440705	10.1180	10.1
41	Carbon tetrachloride	119	9.183	9.182	(0.948)	325605	9.51234	9.51
43	Benzene	78	9.406	9.406	(0.971)	1244862	9.77243	9.77
44	1,2-Dichloroethane	62	9.376	9.376	(0.968)	432226	10.1195	10.1
45	Trichloroethene	95	10.105	10.105	(1.043)	345701	9.70261	9.70
46	1,2-Dichloropropane	63	10.343	10.343	(1.068)	370297	9.68883	9.69
48	Dibromomethane	93	10.492	10.491	(1.083)	206673	9.33549	9.34
49	Bromodichloromethane	83	10.625	10.625	(1.097)	411529	9.54266	9.54
51	cis-1,3-Dichloropropene	75	11.101	11.101	(1.146)	483309	9.02938	9.03
52	4-Methyl-2-pentanone	43	11.220	11.220	(1.158)	1319225	43.7976	43.8
53	Toluene	92	11.503	11.503	(0.883)	720725	10.1051	10.1
54	trans-1,3-Dichloropropene	75	11.682	11.681	(0.897)	394220	9.24329	9.24
55	1,1,2-Trichloroethane	83	11.905	11.904	(0.914)	213217	10.6345	10.6
56	Tetrachloroethene	166	12.143	12.142	(0.933)	287687	10.0305	10.0
57	1,3-Dichloropropane	76	12.098	12.098	(0.929)	403350	10.0169	10.0
58	2-Hexanone	43	12.113	12.113	(0.930)	861849	46.4701	46.5
59	Dibromochloromethane	129	12.381	12.380	(0.951)	259544	8.85579	8.86
60	1,2-Dibromoethane	107	12.529	12.544	(0.962)	258882	9.48526	9.48
62	Chlorobenzene	112	13.065	13.064	(1.003)	787378	9.78568	9.78(Q)
63	1,1,1,2-Tetrachloroethane	131	13.124	13.124	(1.008)	235441	8.93374	8.93
64	Ethylbenzene	91	13.139	13.139	(1.009)	1319864	10.4029	10.4
65	m-,p-Xylene	106	13.258	13.258	(1.018)	958386	20.1270	20.1
66	o-Xylene	106	13.704	13.704	(1.053)	472103	10.0875	10.1
M 67	Xylene (total)	106				1430489	30.2145	30.2
68	Styrene	104	13.704	13.704	(1.053)	813137	9.63973	9.64
69	Bromoform	173	13.957	13.957	(1.072)	147585	7.92716	7.93
70	Isopropylbenzene	105	14.091	14.091	(1.082)	1209073	10.1974	10.2
71	1,1,2,2-Tetrachloroethane	83	14.374	14.373	(0.921)	282537	9.61329	9.61
72	Bromobenzene	156	14.493	14.492	(0.929)	314777	9.59594	9.60
73	1,2,3-Trichloropropane	110	14.463	14.463	(0.927)	64074	9.77368	9.77(Q)
74	n-Propylbenzene	120	14.537	14.537	(0.931)	294139	9.47740	9.48
76	2-Chlorotoluene	126	14.686	14.686	(0.941)	270517	9.28868	9.29
78	1,3,5-Trimethylbenzene	105	14.701	14.716	(0.942)	1005376	9.83465	9.83(M)
79	4-Chlorotoluene	126	14.790	14.790	(0.948)	282514	9.29498	9.29
80	tert-Butylbenzene	119	15.103	15.102	(0.968)	857286	9.35559	9.36
81	1,2,4-Trimethylbenzene	105	15.147	15.147	(0.970)	1003342	9.90268	9.90
82	sec-Butylbenzene	105	15.355	15.355	(0.984)	1250920	10.4118	10.4
83	1,3-Dichlorobenzene	146	15.549	15.548	(0.996)	530459	9.62312	9.62
84	p-Isopropyltoluene	119	15.489	15.504	(0.992)	953402	9.28918	9.29
85	1,4-Dichlorobenzene	146	15.638	15.638	(1.002)	544243	9.61624	9.62
87	n-Butylbenzene	91	16.010	16.010	(1.026)	998514	9.93102	9.93
88	1,2-Dichlorobenzene	146	16.129	16.129	(1.033)	498515	9.51171	9.51
89	1,2-Dibromo-3-chloropropane	75	17.170	17.170	(1.100)	152029	35.2708	35.3(Q)
90	1,2,4-Trichlorobenzene	180	18.583	18.583	(1.191)	354507	9.74389	9.74
91	Hexachlorobutadiene	225	18.866	18.865	(1.209)	152122	9.08706	9.09
92	Naphthalene	128	19.074	19.074	(1.222)	567735	8.48119	8.48
93	1,2,3-Trichlorobenzene	180	19.580	19.579	(1.254)	305671	9.57783	9.58

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

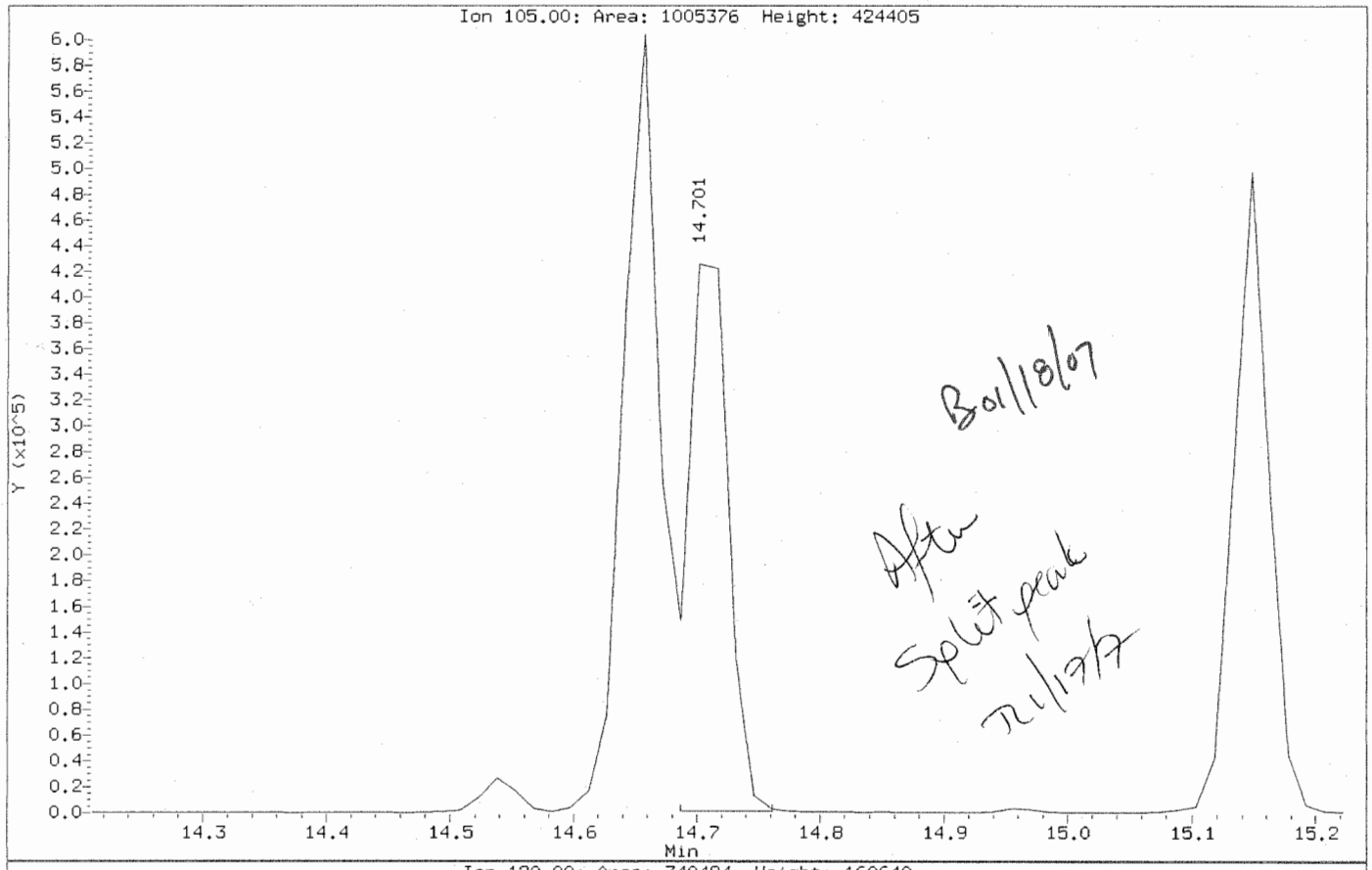
Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070345.D
Injection Date: 17-JAN-2007 00:22
Instrument: MSK.i
Client Sample ID: K0116W02LCS

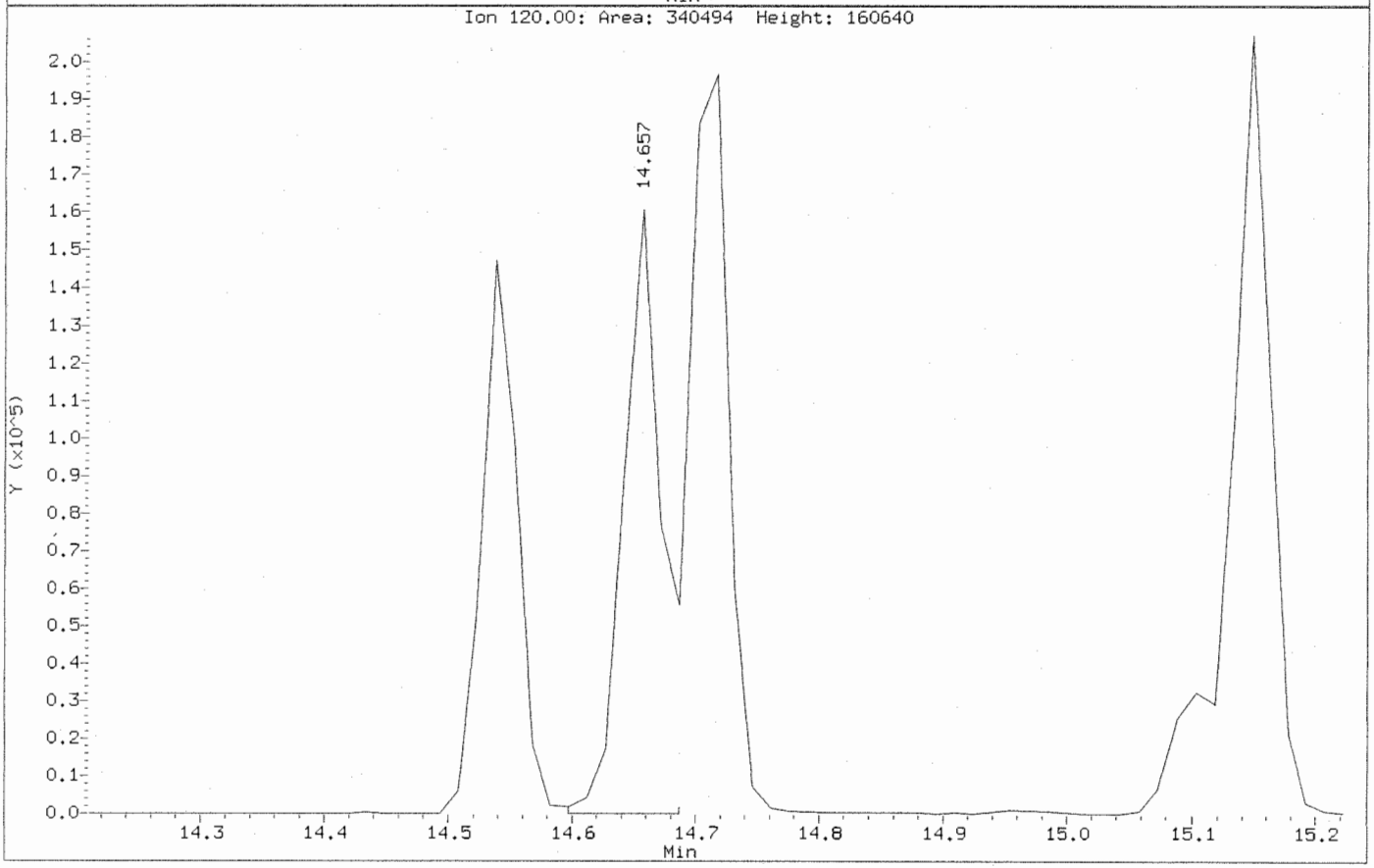
Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



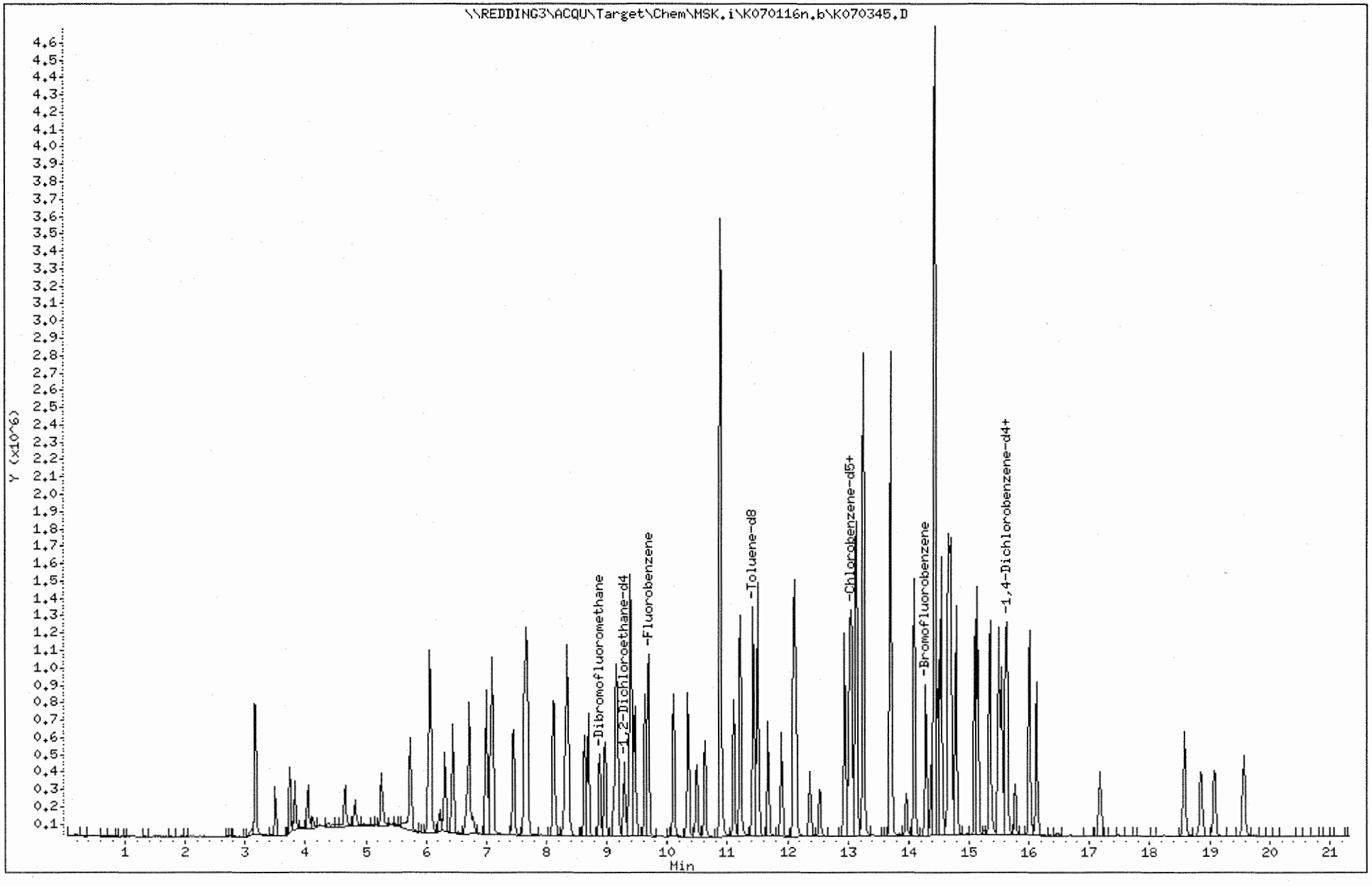
Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070345.D
Injection Date: 17-JAN-2007 00:22
Instrument: MSK.i
Client Sample ID: K0116W02LCS

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070345.D
Date : 17-JAN-2007 00:22
Client ID: K0116W02LCS
Instrument: MSK.i
Sample Info: K0116W02LCS;K0116W02LCS
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: K0116W02LCSD
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**11.2**		0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloromethane	**9.98**		0.24	1.0	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Chloride	**10.1**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromomethane	**10.5**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloroethane	**10.0**		0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Trichlorofluoromethane (CFC 11)	**11.2**		0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichlorotrifluoroethane	**10.1**		0.15	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethene (1,1-DCE)	**10.2**		0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Acetone	**46.6**		0.91	10	1	01/17/2007	01/17/2007	K0116W02	
Carbon Disulfide	**9.30**		0.14	2.0	1	01/17/2007	01/17/2007	K0116W02	
Dichloromethane (Methylene Chloride)	**9.76**		0.19	2.0	1	01/17/2007	01/17/2007	K0116W02	
trans-1,2-Dichloroethene	**9.31**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Methyl tert-Butyl Ether	**8.36**		0.11	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethane (1,1-DCA)	**10.1**		0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Acetate	**8.92**	J	0.24	10	1	01/17/2007	01/17/2007	K0116W02	
2,2-Dichloropropane	**8.33**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
cis-1,2-Dichloroethene	**9.76**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Butanone (MEK)	**42.1**		0.66	10	1	01/17/2007	01/17/2007	K0116W02	
Bromochloromethane	**9.08**		0.17	0.50	1	01/17/2007	01/17/2007	K0116W02	
Chloroform	**9.91**		0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1-Trichloroethane (TCA)	**10.3**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloropropene	**10.1**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
Carbon Tetrachloride	**9.56**		0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
Benzene	**9.76**		0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloroethane (EDC)	**10.2**		0.10	0.50	1	01/17/2007	01/17/2007	K0116W02	
Trichloroethene (TCE)	**9.57**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloropropane	**9.77**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Dibromomethane	**9.71**		0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromodichloromethane	**9.72**		0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
cis-1,3-Dichloropropene	**9.22**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Methyl-2-pentanone (MIBK)	**43.8**		0.56	10	1	01/17/2007	01/17/2007	K0116W02	
Toluene	**9.88**		0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
trans-1,3-Dichloropropene	**9.12**		0.090	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichloroethane	**10.6**		0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Tetrachloroethene (PCE)	**9.80**		0.090	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichloropropane	**9.86**		0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Hexanone	**45.0**		0.49	10	1	01/17/2007	01/17/2007	K0116W02	
Dibromochloromethane	**8.66**		0.12	1.0	1	01/17/2007	01/17/2007	K0116W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: K0116W02LCSD
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**9.24**		0.19	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chlorobenzene	**9.69**		0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1,2-Tetrachloroethane	**8.70**		0.19	0.50	1	01/17/2007	01/17/2007	K0116W02	
Ethylbenzene	**10.3**		0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
Xylenes, Total	**29.7**		0.10	1.5	1	01/17/2007	01/17/2007	K0116W02	
Styrene	**9.54**		0.070	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromoform	**7.76**		0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Isopropylbenzene	**10.2**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2,2-Tetrachloroethane	**10.1**		0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromobenzene	**9.44**		0.13	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichloropropane	**9.79**		0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Propylbenzene	**9.53**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
2-Chlorotoluene	**9.67**		0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3,5-Trimethylbenzene	**9.65**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
4-Chlorotoluene	**9.53**		0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
tert-Butylbenzene	**9.65**		0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trimethylbenzene	**10.1**		0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
sec-Butylbenzene	**10.7**		0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichlorobenzene	**9.89**		0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Isopropyltoluene	**9.41**		0.060	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,4-Dichlorobenzene	**9.83**		0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Butylbenzene	**9.87**		0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichlorobenzene	**9.80**		0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dibromo-3-chloropropane (DBCP)	**35.4**		0.95	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trichlorobenzene	**9.86**		0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
Hexachlorobutadiene	**9.22**		0.26	1.0	1	01/17/2007	01/17/2007	K0116W02	
Naphthalene	**8.75**		0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichlorobenzene	**9.73**		0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	99	79-135	01/17/2007	
4-Bromofluorobenzene - SS	97	82-124	01/17/2007	
Dibromofluoromethane - SS	97	84-127	01/17/2007	
Toluene-d8 - SS	96	80-117	01/17/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070346.D
Lab Smp Id: K0116W02LCSD Client Smp ID: K0116W02LCSD
Inj Date : 17-JAN-2007 00:49
Operator : X Inst ID: MSK.i
Smp Info : K0116W02LCSD;K0116W02LCSD
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:08 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 33 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.687	9.688	(1.000)	1147838	10.0000	
* 2 Chlorobenzene-d5	117	13.019	13.020	(1.000)	789509	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	15.607	15.608	(1.000)	341012	10.0000	
$ 4 Dibromofluoromethane	113	8.884	8.885	(0.917)	358714	9.69662	9.70
$ 5 1,2-Dichloroethane-d4	65	9.301	9.287	(0.960)	337456	9.91558	9.92
$ 6 Toluene-d8	98	11.428	11.428	(0.878)	986130	9.62757	9.63
$ 7 Bromofluorobenzene	174	14.283	14.284	(0.915)	300093	9.72620	9.73
8 Dichlorodifluoromethane	85	3.500	3.501	(0.361)	290589	11.1612	11.2(Q)
10 Chloromethane	50	3.842	3.828	(0.397)	357105	9.98011	9.98
11 Vinyl chloride	62	4.050	4.051	(0.418)	314213	10.1229	10.1
12 Bromomethane	94	4.660	4.661	(0.481)	201719	10.5359	10.5
13 Chloroethane	64	4.824	4.824	(0.498)	150307	10.0482	10.0
14 Trichlorofluoromethane	101	5.270	5.256	(0.544)	354581	11.2295	11.2
15 1,1,2-Trichlorotrifluoroethane	101	6.043	6.044	(0.624)	306773	10.0777	10.1
17 1,1-Dichloroethene	96	6.073	6.059	(0.627)	284254	10.2430	10.2
18 Acetone	43	6.073	6.074	(0.627)	359066	46.6067	46.6
21 Carbon disulfide	76	6.445	6.446	(0.665)	1109683	9.29632	9.30
22 Methylene chloride	84	6.713	6.713	(0.693)	354490	9.76484	9.76
26 trans-1,2-Dichloroethene	96	7.099	7.100	(0.733)	319929	9.30968	9.31
27 tert-Butylmethylether	73	7.084	7.085	(0.731)	626586	8.35715	8.36(Q)
28 1,1-Dichloroethane	63	7.635	7.636	(0.788)	655356	10.0637	10.1
30 Vinyl acetate	43	7.635	7.636	(0.788)	1292987	8.91615	8.92(a)

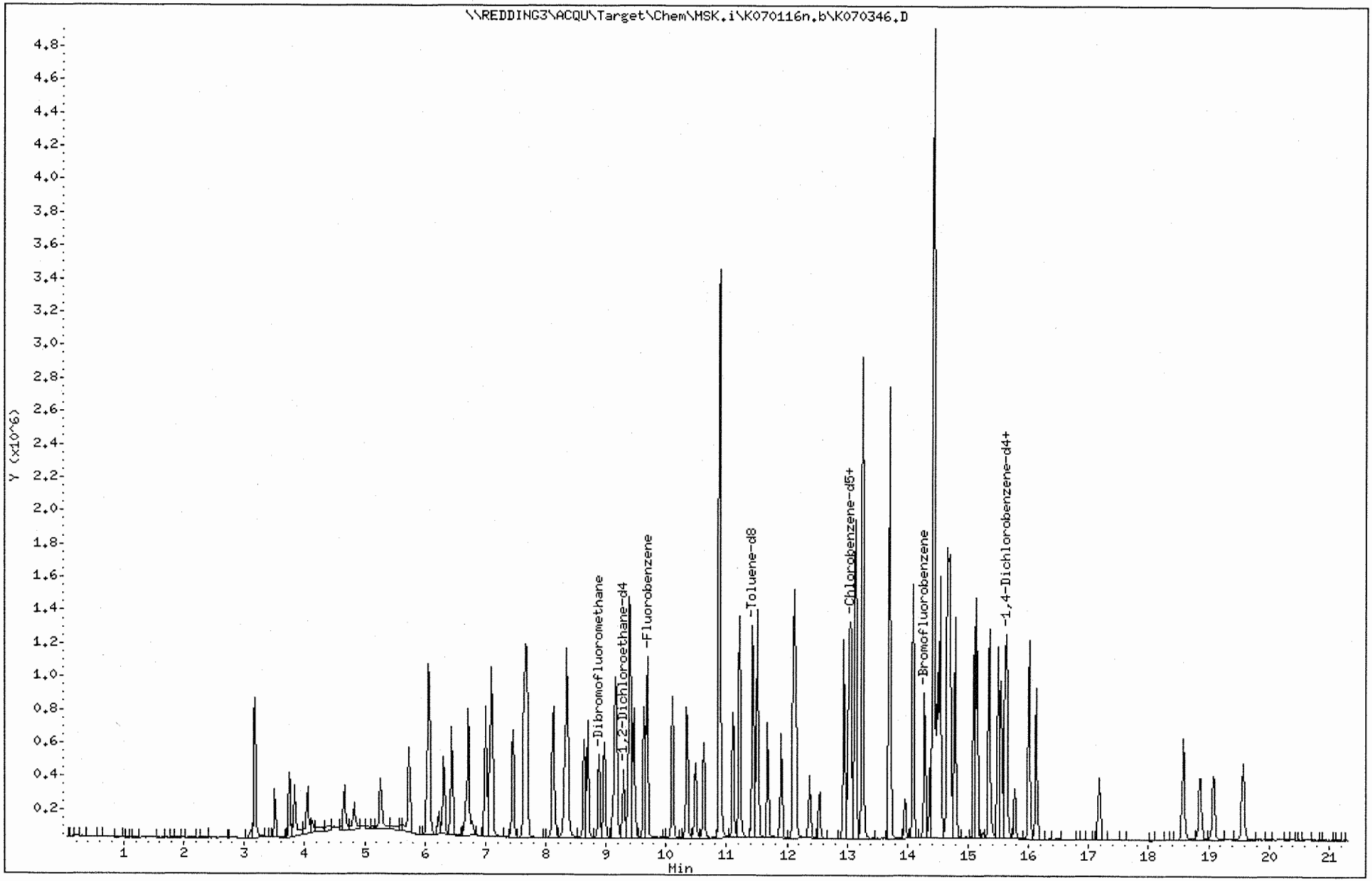
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	8.364	8.364	(0.863)	360880	8.32763	8.33 (Q)
33	cis-1,2-Dichloroethene	96	8.349	8.349	(0.862)	368363	9.76448	9.76
35	2-Butanone	43	8.304	8.305	(0.857)	565039	42.0605	42.1
36	Bromochloromethane	128	8.631	8.632	(0.891)	162386	9.08036	9.08
37	Chloroform	83	8.691	8.692	(0.897)	606458	9.91134	9.91
38	1,1,1-Trichloroethane	97	8.973	8.974	(0.926)	438479	10.3230	10.3 (Q)
40	1,1-Dichloropropene	75	9.152	9.153	(0.945)	443039	10.1316	10.1
41	Carbon tetrachloride	119	9.182	9.182	(0.948)	328606	9.56233	9.56
43	Benzene	78	9.405	9.406	(0.971)	1248187	9.76006	9.76
44	1,2-Dichloroethane	62	9.375	9.376	(0.968)	437803	10.2098	10.2
45	Trichloroethene	95	10.104	10.105	(1.043)	342413	9.57260	9.57
46	1,2-Dichloropropane	63	10.342	10.343	(1.068)	374889	9.77048	9.77
48	Dibromomethane	93	10.491	10.491	(1.083)	215916	9.71471	9.71
49	Bromodichloromethane	83	10.624	10.625	(1.097)	420686	9.71670	9.72
51	cis-1,3-Dichloropropene	75	11.100	11.101	(1.146)	495527	9.22130	9.22
52	4-Methyl-2-pentanone	43	11.219	11.220	(1.158)	1326184	43.8558	43.8
53	Toluene	92	11.502	11.503	(0.883)	724425	9.87617	9.88
54	trans-1,3-Dichloropropene	75	11.680	11.681	(0.897)	400138	9.12267	9.12
55	1,1,2-Trichloroethane	83	11.904	11.904	(0.914)	219693	10.6552	10.6
56	Tetrachloroethene	166	12.142	12.142	(0.933)	289186	9.80400	9.80
57	1,3-Dichloropropane	76	12.097	12.098	(0.929)	408557	9.86572	9.86
58	2-Hexanone	43	12.112	12.113	(0.930)	860452	45.0409	45.0
59	Dibromochloromethane	129	12.380	12.380	(0.951)	261180	8.66524	8.66
60	1,2-Dibromoethane	107	12.543	12.544	(0.963)	259279	9.23717	9.24
62	Chlorobenzene	112	13.064	13.064	(1.003)	801791	9.68931	9.69 (Q)
63	1,1,1,2-Tetrachloroethane	131	13.123	13.124	(1.008)	235837	8.70137	8.70
64	Ethylbenzene	91	13.138	13.139	(1.009)	1341649	10.2822	10.3
65	m-,p-Xylene	106	13.257	13.258	(1.018)	979817	20.0082	20.0
66	o-Xylene	106	13.703	13.704	(1.053)	468609	9.73599	9.74
M 67	Xylene (total)	106				1448426	29.7442	29.7
68	Styrene	104	13.703	13.704	(1.053)	827333	9.53687	9.54
69	Bromoform	173	13.956	13.957	(1.072)	148543	7.75804	7.76
70	Isopropylbenzene	105	14.090	14.091	(1.082)	1243448	10.1974	10.2
71	1,1,2,2-Tetrachloroethane	83	14.373	14.373	(0.921)	292294	10.1201	10.1
72	Bromobenzene	156	14.492	14.492	(0.929)	304735	9.44454	9.44
73	1,2,3-Trichloropropane	110	14.462	14.463	(0.927)	63149	9.79377	9.79 (Q)
74	n-Propylbenzene	120	14.536	14.537	(0.931)	290805	9.52604	9.53
76	2-Chlorotoluene	126	14.685	14.686	(0.941)	277145	9.67477	9.67
78	1,3,5-Trimethylbenzene	105	14.715	14.716	(0.943)	970358	9.65021	9.65 (Q)
79	4-Chlorotoluene	126	14.789	14.790	(0.948)	284967	9.53185	9.53
80	tert-Butylbenzene	119	15.102	15.102	(0.968)	869596	9.64799	9.65
81	1,2,4-Trimethylbenzene	105	15.146	15.147	(0.970)	1004989	10.0841	10.1
82	sec-Butylbenzene	105	15.354	15.355	(0.984)	1265201	10.7061	10.7
83	1,3-Dichlorobenzene	146	15.548	15.548	(0.996)	536233	9.88990	9.89
84	p-Isopropyltoluene	119	15.503	15.504	(0.993)	950166	9.41185	9.41
85	1,4-Dichlorobenzene	146	15.637	15.638	(1.002)	547252	9.83047	9.83
87	n-Butylbenzene	91	16.009	16.010	(1.026)	976332	9.87215	9.87
88	1,2-Dichlorobenzene	146	16.128	16.129	(1.033)	505435	9.80438	9.80
89	1,2-Dibromo-3-chloropropane	75	17.184	17.170	(1.101)	150184	35.4270	35.4 (Q)
90	1,2,4-Trichlorobenzene	180	18.582	18.583	(1.191)	352694	9.85553	9.86
91	Hexachlorobutadiene	225	18.865	18.865	(1.209)	151810	9.21947	9.22
92	Naphthalene	128	19.088	19.074	(1.223)	576035	8.74851	8.75
93	1,2,3-Trichlorobenzene	180	19.579	19.579	(1.254)	305587	9.73468	9.73

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070346.D
Date : 17-JAN-2007 00:49
Client ID: K0116W02LCSD
Sample Info: K0116W02LCSD;K0116W02LCSD
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: K0118W02LCS
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**11.2**		0.15	1.0	1	01/18/2007	01/18/2007	K0118W02	
Chloromethane	**10.1**		0.24	1.0	1	01/18/2007	01/18/2007	K0118W02	
Vinyl Chloride	**9.94**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
Bromomethane	**10.3**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
Chloroethane	**9.76**		0.18	1.0	1	01/18/2007	01/18/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	**11.4**		0.18	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	**10.3**		0.15	2.0	1	01/18/2007	01/18/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	**10.2**		0.15	0.50	1	01/18/2007	01/18/2007	K0118W02	
Acetone	**55.3**		0.91	10	1	01/18/2007	01/18/2007	K0118W02	
Carbon Disulfide	**9.44**		0.14	2.0	1	01/18/2007	01/18/2007	K0118W02	
Dichloromethane (Methylene Chloride)	**10.0**		0.19	2.0	1	01/18/2007	01/18/2007	K0118W02	
trans-1,2-Dichloroethene	**9.30**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
Methyl tert-Butyl Ether	**8.98**		0.11	2.0	1	01/18/2007	01/18/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	**10.2**		0.11	0.50	1	01/18/2007	01/18/2007	K0118W02	
Vinyl Acetate	**7.58**	J	0.24	10	1	01/18/2007	01/18/2007	K0118W02	
2,2-Dichloropropane	**8.15**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
cis-1,2-Dichloroethene	**9.78**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
2-Butanone (MEK)	**49.0**		0.66	10	1	01/18/2007	01/18/2007	K0118W02	
Bromochloromethane	**9.21**		0.17	0.50	1	01/18/2007	01/18/2007	K0118W02	
Chloroform	**10.1**		0.13	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	**10.2**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,1-Dichloropropene	**9.68**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
Carbon Tetrachloride	**9.37**		0.13	0.50	1	01/18/2007	01/18/2007	K0118W02	
Benzene	**9.50**		0.13	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,2-Dichloroethane (EDC)	**10.5**		0.10	0.50	1	01/18/2007	01/18/2007	K0118W02	
Trichloroethene (TCE)	**9.76**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,2-Dichloropropane	**9.59**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
Dibromomethane	**9.85**		0.15	0.50	1	01/18/2007	01/18/2007	K0118W02	
Bromodichloromethane	**9.59**		0.14	1.0	1	01/18/2007	01/18/2007	K0118W02	
cis-1,3-Dichloropropene	**8.97**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	**48.6**		0.56	10	1	01/18/2007	01/18/2007	K0118W02	
Toluene	**10.2**		0.13	0.50	1	01/18/2007	01/18/2007	K0118W02	
trans-1,3-Dichloropropene	**9.48**		0.090	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,1,2-Trichloroethane	**11.6**		0.15	0.50	1	01/18/2007	01/18/2007	K0118W02	
Tetrachloroethene (PCE)	**10.3**		0.090	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,3-Dichloropropane	**10.8**		0.11	0.50	1	01/18/2007	01/18/2007	K0118W02	
2-Hexanone	**54.8**		0.49	10	1	01/18/2007	01/18/2007	K0118W02	
Dibromochloromethane	**9.16**		0.12	1.0	1	01/18/2007	01/18/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: K0118W02LCS
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**10.3**		0.19	1.0	1	01/18/2007	01/18/2007	K0118W02	
Chlorobenzene	**9.81**		0.12	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,1,1,2-Tetrachloroethane	**9.27**		0.19	0.50	1	01/18/2007	01/18/2007	K0118W02	
Ethylbenzene	**10.6**		0.11	0.50	1	01/18/2007	01/18/2007	K0118W02	
Xylenes, Total	**30.4**		0.10	1.5	1	01/18/2007	01/18/2007	K0118W02	
Styrene	**9.74**		0.070	0.50	1	01/18/2007	01/18/2007	K0118W02	
Bromoform	**8.61**		0.18	1.0	1	01/18/2007	01/18/2007	K0118W02	
Isopropylbenzene	**9.93**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,1,2,2-Tetrachloroethane	**10.4**		0.20	0.50	1	01/18/2007	01/18/2007	K0118W02	
Bromobenzene	**9.78**		0.13	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,2,3-Trichloropropane	**11.0**		0.20	0.50	1	01/18/2007	01/18/2007	K0118W02	
n-Propylbenzene	**9.23**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
2-Chlorotoluene	**9.48**		0.11	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,3,5-Trimethylbenzene	**9.49**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
4-Chlorotoluene	**9.41**		0.14	1.0	1	01/18/2007	01/18/2007	K0118W02	
tert-Butylbenzene	**9.31**		0.080	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,2,4-Trimethylbenzene	**9.91**		0.080	1.0	1	01/18/2007	01/18/2007	K0118W02	
sec-Butylbenzene	**10.5**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,3-Dichlorobenzene	**10.0**		0.15	0.50	1	01/18/2007	01/18/2007	K0118W02	
4-Isopropyltoluene	**9.33**		0.060	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,4-Dichlorobenzene	**9.88**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
n-Butylbenzene	**9.84**		0.10	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,2-Dichlorobenzene	**10.1**		0.12	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	**41.6**		0.95	2.0	1	01/18/2007	01/18/2007	K0118W02	
1,2,4-Trichlorobenzene	**9.85**		0.11	1.0	1	01/18/2007	01/18/2007	K0118W02	
Hexachlorobutadiene	**9.23**		0.26	1.0	1	01/18/2007	01/18/2007	K0118W02	
Naphthalene	**8.95**		0.10	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,2,3-Trichlorobenzene	**9.96**		0.15	1.0	1	01/18/2007	01/18/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	103	79-135	01/18/2007	
4-Bromofluorobenzene - SS	95	82-124	01/18/2007	
Dibromofluoromethane - SS	95	84-127	01/18/2007	
Toluene-d8 - SS	101	80-117	01/18/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070430.D
Lab Smp Id: K0118W02LCS Client Smp ID: K0118W02LCS
Inj Date : 18-JAN-2007 22:46
Operator : X Inst ID: MSK.i
Smp Info : K0118W02LCS;K0118W02LCS
Misc Info :
Comment :
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Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

3a 1/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	9.674	9.673	(1.000)	1117897	10.0000	
*	2 Chlorobenzene-d5	117	13.021	13.020	(1.000)	724646	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.594	15.593	(1.000)	325748	10.0000	
$	4 Dibromofluoromethane	113	8.871	8.870	(0.917)	342513	9.50666	9.51
$	5 1,2-Dichloroethane-d4	65	9.287	9.287	(0.960)	342287	10.3269	10.3
$	6 Toluene-d8	98	11.414	11.414	(0.877)	951207	10.1179	10.1
$	7 Bromofluorobenzene	174	14.285	14.284	(0.916)	280661	9.52264	9.52
	8 Dichlorodifluoromethane	85	3.487	3.486	(0.360)	283115	11.1654	11.2(Q)
	10 Chloromethane	50	3.829	3.828	(0.396)	351717	10.0928	10.1
	11 Vinyl chloride	62	4.037	4.036	(0.417)	300365	9.93595	9.94
	12 Bromomethane	94	4.647	4.646	(0.480)	192515	10.3368	10.3
	13 Chloroethane	64	4.810	4.810	(0.497)	142268	9.76551	9.76
	14 Trichlorofluoromethane	101	5.242	5.241	(0.542)	351056	11.4156	11.4
	15 1,1,2-Trichlorotrifluoroethane	101	6.030	6.029	(0.623)	305373	10.3003	10.3
	17 1,1-Dichloroethene	96	6.045	6.044	(0.625)	275172	10.1813	10.2
	18 Acetone	43	6.060	6.059	(0.626)	411007	55.3287	55.3
	21 Carbon disulfide	76	6.432	6.431	(0.665)	1097670	9.44197	9.44
	22 Methylene chloride	84	6.699	6.699	(0.693)	354025	10.0132	10.0
	26 trans-1,2-Dichloroethene	96	7.086	7.085	(0.732)	311241	9.29944	9.30
	27 tert-Butylmethylether	73	7.071	7.070	(0.731)	655546	8.97759	8.98(Q)
	28 1,1-Dichloroethane	63	7.621	7.621	(0.788)	649706	10.2442	10.2
	30 Vinyl acetate	43	7.666	7.665	(0.792)	1070905	7.58251	7.58(a)

TL 1/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	8.350	8.350	(0.863)	343999	8.15069	8.15(Q)
33	cis-1,2-Dichloroethene	96	8.335	8.335	(0.862)	359407	9.78224	9.78
35	2-Butanone	43	8.291	8.290	(0.857)	641552	49.0351	49.0
36	Bromochloromethane	128	8.618	8.617	(0.891)	160367	9.20764	9.21
37	Chloroform	83	8.678	8.677	(0.897)	599532	10.0606	10.1
38	1,1,1-Trichloroethane	97	8.960	8.959	(0.926)	423761	10.2437	10.2(Q)
40	1,1-Dichloropropene	75	9.139	9.138	(0.945)	412180	9.67838	9.68
41	Carbon tetrachloride	119	9.168	9.168	(0.948)	313759	9.37482	9.37
43	Benzene	78	9.391	9.391	(0.971)	1182774	9.49628	9.50
44	1,2-Dichloroethane	62	9.362	9.361	(0.968)	439551	10.5251	10.5
45	Trichloroethene	95	10.091	10.090	(1.043)	339968	9.75880	9.76
46	1,2-Dichloropropane	63	10.329	10.328	(1.068)	358457	9.59244	9.59
48	Dibromomethane	93	10.477	10.477	(1.083)	213228	9.85072	9.85
49	Bromodichloromethane	83	10.611	10.610	(1.097)	404453	9.59197	9.59
51	cis-1,3-Dichloropropene	75	11.087	11.086	(1.146)	469696	8.97471	8.97
52	4-Methyl-2-pentanone	43	11.206	11.205	(1.158)	1432119	48.6274	48.6
53	Toluene	92	11.489	11.503	(0.882)	685173	10.1772	10.2
54	trans-1,3-Dichloropropene	75	11.667	11.667	(0.896)	381680	9.48075	9.48
55	1,1,2-Trichloroethane	83	11.890	11.890	(0.913)	218712	11.5868	11.6
56	Tetrachloroethene	166	12.128	12.128	(0.931)	279150	10.3109	10.3
57	1,3-Dichloropropane	76	12.084	12.083	(0.928)	409508	10.7738	10.8
58	2-Hexanone	43	12.099	12.098	(0.929)	952782	54.8414	54.8
59	Dibromochloromethane	129	12.366	12.366	(0.950)	253395	9.15946	9.16
60	1,2-Dibromoethane	107	12.530	12.529	(0.962)	265707	10.3135	10.3
62	Chlorobenzene	112	13.050	13.050	(1.002)	745412	9.81430	9.81(Q)
63	1,1,1,2-Tetrachloroethane	131	13.110	13.109	(1.007)	230621	9.27055	9.27
64	Ethylbenzene	91	13.125	13.124	(1.008)	1266840	10.5780	10.6
65	m-,p-Xylene	106	13.244	13.243	(1.017)	908055	20.2026	20.2
66	o-Xylene	106	13.690	13.704	(1.051)	451195	10.2133	10.2
M 67	Xylene (total)	106				1359250	30.4158	30.4
68	Styrene	104	13.705	13.704	(1.053)	775382	9.73806	9.74
69	Bromoform	173	13.958	13.957	(1.072)	151276	8.60798	8.61
70	Isopropylbenzene	105	14.077	14.076	(1.081)	1111504	9.93124	9.93
71	1,1,2,2-Tetrachloroethane	83	14.359	14.359	(0.921)	286368	10.3841	10.4
72	Bromobenzene	156	14.493	14.493	(0.929)	301579	9.78470	9.78
73	1,2,3-Trichloropropane	110	14.449	14.448	(0.927)	67220	10.9567	11.0(Q)
74	n-Propylbenzene	120	14.523	14.537	(0.931)	269087	9.22765	9.23
76	2-Chlorotoluene	126	14.672	14.671	(0.941)	259374	9.47868	9.48
78	1,3,5-Trimethylbenzene	105	14.701	14.701	(0.943)	911184	9.48634	9.49(Q)
79	4-Chlorotoluene	126	14.776	14.775	(0.948)	268751	9.41068	9.41
80	tert-Butylbenzene	119	15.088	15.088	(0.968)	801880	9.31358	9.31
81	1,2,4-Trimethylbenzene	105	15.133	15.132	(0.970)	943667	9.91253	9.91
82	sec-Butylbenzene	105	15.341	15.340	(0.984)	1190650	10.5473	10.5
83	1,3-Dichlorobenzene	146	15.534	15.534	(0.996)	518350	10.0080	10.0
84	p-Isopropyltoluene	119	15.490	15.489	(0.993)	899475	9.32723	9.33
85	1,4-Dichlorobenzene	146	15.624	15.638	(1.002)	525176	9.87596	9.88
87	n-Butylbenzene	91	15.996	15.995	(1.026)	929803	9.84222	9.84
88	1,2-Dichlorobenzene	146	16.115	16.114	(1.033)	495827	10.0687	10.1
89	1,2-Dibromo-3-chloropropane	75	17.156	17.170	(1.100)	167703	41.5665	41.6(Q)
90	1,2,4-Trichlorobenzene	180	18.569	18.568	(1.191)	336843	9.85365	9.85
91	Hexachlorobutadiene	225	18.851	18.851	(1.209)	145258	9.23492	9.23
92	Naphthalene	128	19.060	19.059	(1.222)	562982	8.95092	8.95
93	1,2,3-Trichlorobenzene	180	19.550	19.550	(1.254)	298540	9.95583	9.96

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070430.D

Date : 18-JAN-2007 22:46

Client ID: K0118W02LCS

Instrument: MSK.i

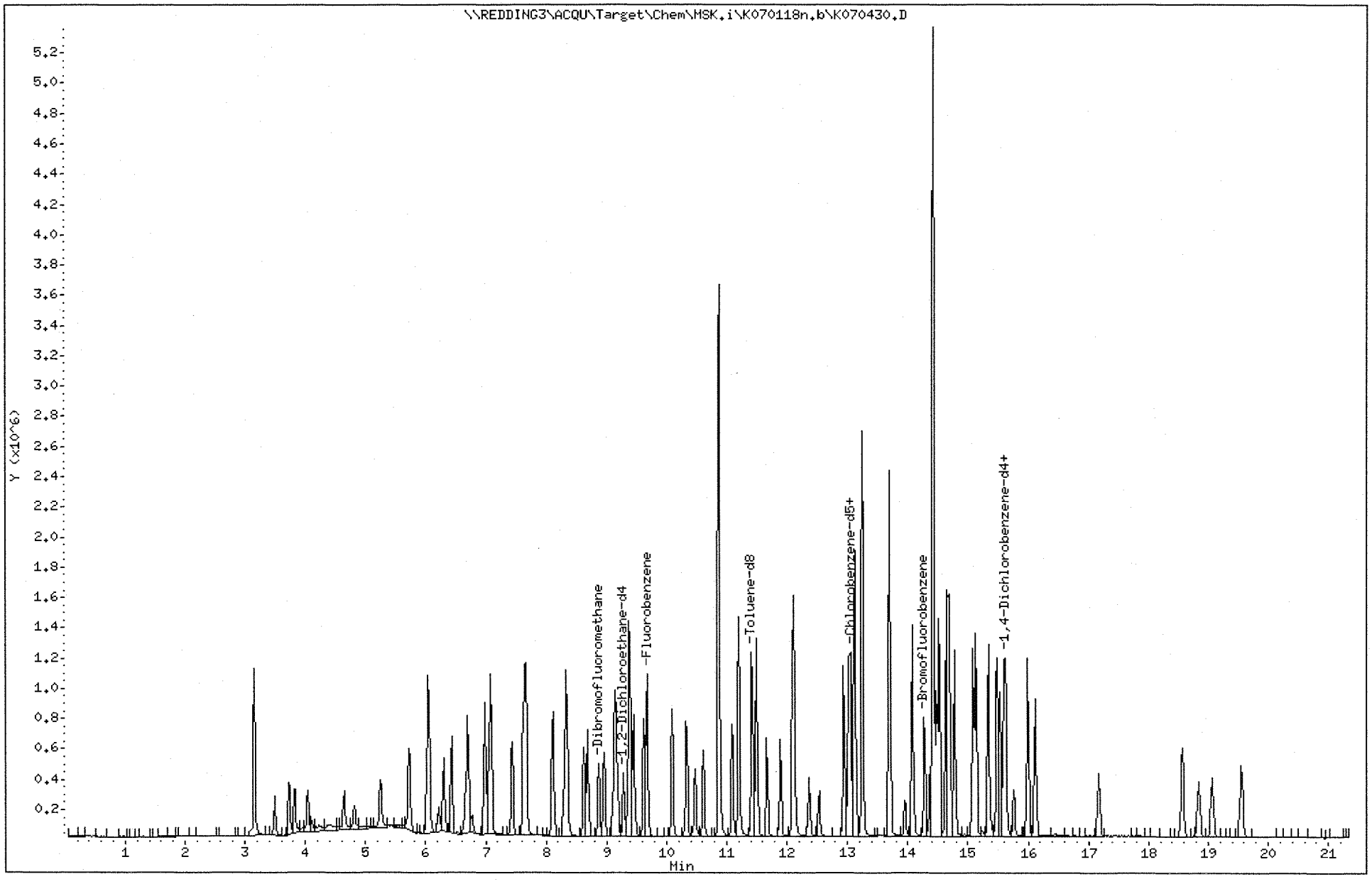
Sample Info: K0118W02LCS;K0118W02LCS

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: K0118W02LCSD
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**11.2**		0.15	1.0	1	01/18/2007	01/18/2007	K0118W02	
Chloromethane	**10.1**		0.24	1.0	1	01/18/2007	01/18/2007	K0118W02	
Vinyl Chloride	**9.94**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
Bromomethane	**10.5**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
Chloroethane	**10.1**		0.18	1.0	1	01/18/2007	01/18/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	**11.4**		0.18	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	**10.3**		0.15	2.0	1	01/18/2007	01/18/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	**10.4**		0.15	0.50	1	01/18/2007	01/18/2007	K0118W02	
Acetone	**51.9**		0.91	10	1	01/18/2007	01/18/2007	K0118W02	
Carbon Disulfide	**9.46**		0.14	2.0	1	01/18/2007	01/18/2007	K0118W02	
Dichloromethane (Methylene Chloride)	**10.4**		0.19	2.0	1	01/18/2007	01/18/2007	K0118W02	
trans-1,2-Dichloroethene	**9.48**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
Methyl tert-Butyl Ether	**8.96**		0.11	2.0	1	01/18/2007	01/18/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	**10.3**		0.11	0.50	1	01/18/2007	01/18/2007	K0118W02	
Vinyl Acetate	**9.37**	J	0.24	10	1	01/18/2007	01/18/2007	K0118W02	
2,2-Dichloropropane	**8.12**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
cis-1,2-Dichloroethene	**10.0**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
2-Butanone (MEK)	**48.4**		0.66	10	1	01/18/2007	01/18/2007	K0118W02	
Bromochloromethane	**9.34**		0.17	0.50	1	01/18/2007	01/18/2007	K0118W02	
Chloroform	**10.2**		0.13	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	**10.3**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,1-Dichloropropene	**9.92**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
Carbon Tetrachloride	**9.30**		0.13	0.50	1	01/18/2007	01/18/2007	K0118W02	
Benzene	**9.81**		0.13	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,2-Dichloroethane (EDC)	**10.7**		0.10	0.50	1	01/18/2007	01/18/2007	K0118W02	
Trichloroethene (TCE)	**9.58**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,2-Dichloropropane	**10.1**		0.16	0.50	1	01/18/2007	01/18/2007	K0118W02	
Dibromomethane	**10.3**		0.15	0.50	1	01/18/2007	01/18/2007	K0118W02	
Bromodichloromethane	**9.82**		0.14	1.0	1	01/18/2007	01/18/2007	K0118W02	
cis-1,3-Dichloropropene	**9.42**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	**49.3**		0.56	10	1	01/18/2007	01/18/2007	K0118W02	
Toluene	**10.0**		0.13	0.50	1	01/18/2007	01/18/2007	K0118W02	
trans-1,3-Dichloropropene	**9.45**		0.090	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,1,2-Trichloroethane	**11.3**		0.15	0.50	1	01/18/2007	01/18/2007	K0118W02	
Tetrachloroethene (PCE)	**10.0**		0.090	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,3-Dichloropropane	**10.5**		0.11	0.50	1	01/18/2007	01/18/2007	K0118W02	
2-Hexanone	**52.4**		0.49	10	1	01/18/2007	01/18/2007	K0118W02	
Dibromochloromethane	**9.18**		0.12	1.0	1	01/18/2007	01/18/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: K0118W02LCSD
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**9.99**		0.19	1.0	1	01/18/2007	01/18/2007	K0118W02	
Chlorobenzene	**9.91**		0.12	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,1,1,2-Tetrachloroethane	**9.18**		0.19	0.50	1	01/18/2007	01/18/2007	K0118W02	
Ethylbenzene	**10.3**		0.11	0.50	1	01/18/2007	01/18/2007	K0118W02	
Xylenes, Total	**29.5**		0.10	1.5	1	01/18/2007	01/18/2007	K0118W02	
Styrene	**9.63**		0.070	0.50	1	01/18/2007	01/18/2007	K0118W02	
Bromoform	**8.29**		0.18	1.0	1	01/18/2007	01/18/2007	K0118W02	
Isopropylbenzene	**9.83**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,1,2,2-Tetrachloroethane	**11.0**		0.20	0.50	1	01/18/2007	01/18/2007	K0118W02	
Bromobenzene	**9.70**		0.13	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,2,3-Trichloropropane	**11.0**		0.20	0.50	1	01/18/2007	01/18/2007	K0118W02	
n-Propylbenzene	**9.50**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
2-Chlorotoluene	**9.51**		0.11	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,3,5-Trimethylbenzene	**9.82**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
4-Chlorotoluene	**9.32**		0.14	1.0	1	01/18/2007	01/18/2007	K0118W02	
tert-Butylbenzene	**9.43**		0.080	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,2,4-Trimethylbenzene	**9.80**		0.080	1.0	1	01/18/2007	01/18/2007	K0118W02	
sec-Butylbenzene	**10.4**		0.090	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,3-Dichlorobenzene	**9.68**		0.15	0.50	1	01/18/2007	01/18/2007	K0118W02	
4-Isopropyltoluene	**9.14**		0.060	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,4-Dichlorobenzene	**9.87**		0.14	0.50	1	01/18/2007	01/18/2007	K0118W02	
n-Butylbenzene	**9.86**		0.10	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,2-Dichlorobenzene	**9.93**		0.12	0.50	1	01/18/2007	01/18/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	**40.4**		0.95	2.0	1	01/18/2007	01/18/2007	K0118W02	
1,2,4-Trichlorobenzene	**9.84**		0.11	1.0	1	01/18/2007	01/18/2007	K0118W02	
Hexachlorobutadiene	**8.92**		0.26	1.0	1	01/18/2007	01/18/2007	K0118W02	
Naphthalene	**8.76**		0.10	1.0	1	01/18/2007	01/18/2007	K0118W02	
1,2,3-Trichlorobenzene	**9.80**		0.15	1.0	1	01/18/2007	01/18/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	104	79-135	01/18/2007	
4-Bromofluorobenzene - SS	97	82-124	01/18/2007	
Dibromofluoromethane - SS	100	84-127	01/18/2007	
Toluene-d8 - SS	100	80-117	01/18/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070431.D
Lab Smp Id: K0118W02LCSD Client Smp ID: K0118W02LCSD
Inj Date : 18-JAN-2007 23:12
Operator : X Inst ID: MSK.i
Smp Info : K0118W02LCSD;K0118W02LCSD
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 33 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJI063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

BAI 1/9/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	9.673	9.673	(1.000)	1120306	10.0000	
*	2 Chlorobenzene-d5	117	13.019	13.020	(1.000)	751136	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.608	15.593	(1.000)	334990	10.0000	
$	4 Dibromofluoromethane	113	8.870	8.870	(0.917)	361966	10.0250	10.0
$	5 1,2-Dichloroethane-d4	65	9.286	9.287	(0.960)	343997	10.3562	10.4
$	6 Toluene-d8	98	11.413	11.414	(0.877)	973307	9.98783	9.99
$	7 Bromofluorobenzene	174	14.284	14.284	(0.915)	292851	9.66211	9.66
	8 Dichlorodifluoromethane	85	3.485	3.486	(0.360)	285101	11.2195	11.2(Q)
	10 Chloromethane	50	3.827	3.828	(0.396)	351869	10.0754	10.1
	11 Vinyl chloride	62	4.036	4.036	(0.417)	301077	9.93809	9.94
	12 Bromomethane	94	4.645	4.646	(0.480)	195474	10.4650	10.5
	13 Chloroethane	64	4.809	4.810	(0.497)	147751	10.1201	10.1
	14 Trichlorofluoromethane	101	5.240	5.241	(0.542)	352129	11.4259	11.4
	15 1,1,2-Trichlorotrifluoroethane	101	6.029	6.029	(0.623)	305211	10.2727	10.3
	17 1,1-Dichloroethene	96	6.044	6.044	(0.625)	280448	10.3542	10.4
	18 Acetone	43	6.058	6.059	(0.626)	387649	51.8870	51.9
	21 Carbon disulfide	76	6.430	6.431	(0.665)	1102409	9.46235	9.46
	22 Methylene chloride	84	6.698	6.699	(0.692)	367395	10.3690	10.4
	26 trans-1,2-Dichloroethene	96	7.085	7.085	(0.732)	317892	9.47774	9.48
	27 tert-Butylmethylether	73	7.070	7.070	(0.731)	655588	8.95886	8.96(Q)
	28 1,1-Dichloroethane	63	7.620	7.621	(0.788)	652636	10.2682	10.3
	30 Vinyl acetate	43	7.620	7.665	(0.788)	1326837	9.37443	9.37(a)

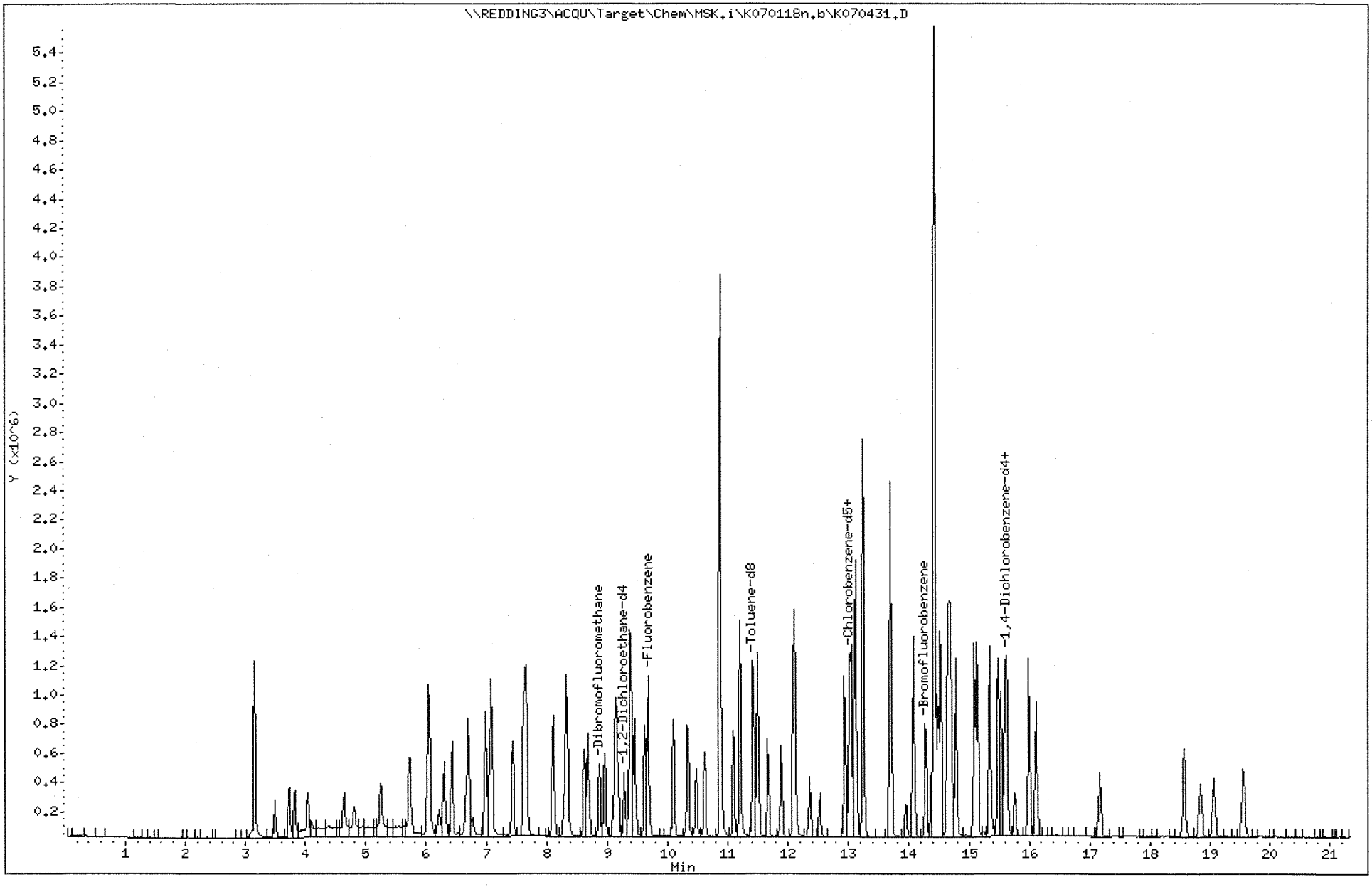
TJ 1/9/7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	8.349	8.350	(0.863)	343587	8.12342	8.12(Q)
33	cis-1,2-Dichloroethene	96	8.334	8.335	(0.862)	369425	10.0333	10.0
35	2-Butanone	43	8.290	8.290	(0.857)	634251	48.3728	48.4
36	Bromochloromethane	128	8.617	8.617	(0.891)	163075	9.34299	9.34
37	Chloroform	83	8.676	8.677	(0.897)	609171	10.2003	10.2
38	1,1,1-Trichloroethane	97	8.959	8.959	(0.926)	428927	10.3462	10.3(Q)
40	1,1-Dichloropropene	75	9.137	9.138	(0.945)	423498	9.92276	9.92
41	Carbon tetrachloride	119	9.167	9.168	(0.948)	312116	9.30568	9.30
43	Benzene	78	9.390	9.391	(0.971)	1224409	9.80942	9.81
44	1,2-Dichloroethane	62	9.375	9.361	(0.969)	446349	10.6649	10.7
45	Trichloroethene	95	10.089	10.090	(1.043)	334470	9.58034	9.58
46	1,2-Dichloropropane	63	10.327	10.328	(1.068)	377615	10.0834	10.1
48	Dibromomethane	93	10.476	10.477	(1.083)	222758	10.2689	10.3
49	Bromodichloromethane	83	10.610	10.610	(1.097)	414858	9.81757	9.82
51	cis-1,3-Dichloropropene	75	11.086	11.086	(1.146)	493916	9.41720	9.42
52	4-Methyl-2-pentanone	43	11.205	11.205	(1.158)	1454105	49.2678	49.3
53	Toluene	92	11.502	11.503	(0.883)	700687	10.0406	10.0
54	trans-1,3-Dichloropropene	75	11.666	11.667	(0.896)	394468	9.45284	9.45
55	1,1,2-Trichloroethane	83	11.889	11.890	(0.913)	220858	11.2788	11.3
56	Tetrachloroethene	166	12.127	12.128	(0.931)	282158	10.0544	10.0
57	1,3-Dichloropropane	76	12.082	12.083	(0.928)	414740	10.5267	10.5
58	2-Hexanone	43	12.097	12.098	(0.929)	946266	52.4434	52.4
59	Dibromochloromethane	129	12.365	12.366	(0.950)	263169	9.17728	9.18
60	1,2-Dibromoethane	107	12.529	12.529	(0.962)	266711	9.98737	9.99
62	Chlorobenzene	112	13.049	13.050	(1.002)	780368	9.91219	9.91(Q)
63	1,1,1,2-Tetrachloroethane	131	13.109	13.109	(1.007)	236814	9.18378	9.18
64	Ethylbenzene	91	13.124	13.124	(1.008)	1278723	10.3006	10.3
65	m-,p-Xylene	106	13.243	13.243	(1.017)	918257	19.7091	19.7
66	o-Xylene	106	13.704	13.704	(1.053)	450629	9.84073	9.84
M 67	Xylene (total)	106				1368886	29.5498	29.5
68	Styrene	104	13.704	13.704	(1.053)	794918	9.63133	9.63
69	Bromoform	173	13.957	13.957	(1.072)	151092	8.29430	8.29
70	Isopropylbenzene	105	14.076	14.076	(1.081)	1140322	9.82940	9.83
71	1,1,2,2-Tetrachloroethane	83	14.358	14.359	(0.920)	311648	10.9993	11.0
72	Bromobenzene	156	14.492	14.493	(0.929)	307611	9.70506	9.70
73	1,2,3-Trichloropropane	110	14.447	14.448	(0.926)	69755	11.0596	11.0(Q)
74	n-Propylbenzene	120	14.537	14.537	(0.931)	285066	9.50591	9.50
76	2-Chlorotoluene	126	14.671	14.671	(0.940)	267704	9.51319	9.51
78	1,3,5-Trimethylbenzene	105	14.700	14.701	(0.942)	969510	9.81510	9.82(Q)
79	4-Chlorotoluene	126	14.775	14.775	(0.947)	273822	9.32372	9.32
80	tert-Butylbenzene	119	15.087	15.088	(0.967)	834906	9.42964	9.43
81	1,2,4-Trimethylbenzene	105	15.132	15.132	(0.970)	959505	9.80083	9.80
82	sec-Butylbenzene	105	15.340	15.340	(0.983)	1204232	10.3733	10.4
83	1,3-Dichlorobenzene	146	15.533	15.534	(0.995)	515599	9.68029	9.68
84	p-Isopropyltoluene	119	15.489	15.489	(0.992)	906092	9.13662	9.14
85	1,4-Dichlorobenzene	146	15.637	15.638	(1.002)	539693	9.86896	9.87
87	n-Butylbenzene	91	15.994	15.995	(1.025)	957874	9.85962	9.86
88	1,2-Dichlorobenzene	146	16.113	16.114	(1.032)	502720	9.92701	9.93
89	1,2-Dibromo-3-chloropropane	75	17.154	17.170	(1.099)	167779	40.4135	40.4(Q)
90	1,2,4-Trichlorobenzene	180	18.567	18.568	(1.190)	345917	9.83992	9.84
91	Hexachlorobutadiene	225	18.850	18.851	(1.208)	144224	8.91622	8.92
92	Naphthalene	128	19.058	19.059	(1.221)	566505	8.75844	8.76
93	1,2,3-Trichlorobenzene	180	19.564	19.550	(1.253)	302184	9.79933	9.80

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070431.D
Date : 18-JAN-2007 23:12
Client ID: K0118W02LCSD
Instrument: MSK.i
Sample Info: K0118W02LCSD;K0118W02LCSD
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



SUPPORT DOCUMENTATION

Columbia Analytical Services

GC/MS VOA Injection Log

MSK; Karl

Date
01/10/07 (01/11/07)

Analyst: R
ICAL Date/Time: 01/11/07
Method: SW846/8260

Internal Standard Std Prep # 9MSV-33-3
BFB / Surrogate Std Prep # 9MSV-34-1
Calibration Std Prep # 9MSV-34-2A
QCALTSTD / LCS Std Prep # 9MSV-34-3A
MS/MSD Std Prep # ↓

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
1050	K070142	BFB	NA	WA	NA	NA	NA	NA	✓	✓	
1119	43	VSTD00.3							✓	✓	
1145	44	VSTD00.5							✓	✓	
1212	45	VSTD001							✓	✓	
1238	46	VSTD005							✓	✓	
1305	47	VSTD010							✓	✓	
1331	48	VSTD020							✓	✓	
1358	49	VSTD040							✓	✓	
1425	50	VSTD100							✓	✓	
1451	51	QCALCSTD							✓	N	use 2nd
1518	52	QCALCSTD							✓	✓	
1544	53	K011WD1 LCS							✓	✓	
1611	54	K011WD1 LCSD							✓	✓	
	55	Wash							—	—	
	56	~~K011WD1~~ WASH							—	—	
1730	57	~~D07000~~ K011WD1	↓		↓	↓			✓	✓	
1757	58	D0700041 - 001	.01		7	x			✓	✓	Hill
1824	59	-002	.01		7	x			✓	✓	
1850	60	-003	.01		7	x			✓	✓	
1917	61	-004	.01		7	x			✓	✓	
1943	62	-005	.01		7	x			✓	✓	
2010	63	-006	.01		7	x			✓	✓	
2036	64	-007	.01		7	x			✓	✓	
2103	65	-008	.01		7	x			✓	✓	
2130	66	-009	.01		7	x			✓	✓	
2156	67	-010	.01		7	x			✓	✓	
2223	68	-010 MS	.01		7	x			✓	N	not requested
2249	69	-010 MSD	.01	↓	7	x	↓	↓	✓	N	↓

Last Analysis within 12-Hour clock? ☒ Yes ☐ No

CCV Used? ~~☐ #3~~ ☐ #4 TPM

MS/MSD present? ☒ Yes ☐ No

Columbia Analytical Services

GC/MS VOA Injection Log

MSK; Karl

Date
01/16/07 N

Analyst: RT

ICAL Date/Time: 01/11/07

Method: SW846 8260B

Internal Standard Std Prep # 9MSV 352

BFB / Surrogate Std Prep # 9MSV-35-1

Calibration Std Prep # 9MSV-34-2A

QCALTSTD / LCS Std Prep # 9MSV-34-3A

MS/MSD Std Prep # 9MSV-34-3A

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
—	K070341	BFB	NA	WA	NA	NA	NA	NA	✓	N	use 2nd
2350	42	BFB							✓	✓	
2330	43	VSTD010							✓	N	use 2nd
2356	44	VSTD010							✓	✓	
0022	45	K0116WS2LCS							✓	✓	
0049	46	K0116WS2LCSD							✓	✓	
—	47	Wash							—	—	
0141	48	K0116WS2	↓		↓	↓			✓	✓	
0208	49	D0700576-001	.01		<2	1x			N	N	TOL LJ1063 1,4DCE@404, trans@108, TCE@754, Tet@896
0234	50	-002	.01		<2	1x			N	N	trans@112; cis@881A c/o
0300	51	-003	.01		<2	1x			✓	N	c/o
0326	52	-004	.01		<2	1x			N	✓	cis@689; TCE@441; Tet@222
0353	53	-005	.01		<2	1x			N	✓	1,4DCE@232; cis@741A, TCE@709, Tet@301
1/17/7 ~~0336~~ 0419	54	-006	.01		<2	1x			✓	N	c/o
0445	55	-007	.01		<2	1x			✓	N	c/o
0511	56	-008	.01		<2	1x			✓	N	c/o
0538	57	-009	.01		<2	1x			✓	N	c/o
0604	58	-010	.01		<2	1x			✓	N	c/o
0630	59	-011	.01		<2	1x			✓	N	c/o
0656	60	-012	.01		<2	1x			✓	N	c/o
0723	61	-013	.01		<2	1x			✓	N	c/o.
0749	62	-013DL	.01		<2	5x			✓	N	not needed
0815	63	-014	.01		<2	1x			✓	N	c/o Tet.
0841	64	-015	.01		<2	1x			N	N	c/o Tet. cis@132
0908	65	-015DL	.01		<2	10x			✓	N	c/o Tet.
0934	66	-016	.01		<2	1x			✓	N	c/o Tet. 0.14
1001	67	-016DL	.01		<2	10x			✓	N	not needed
1027	68	-014MS	.01		<2	1x			✓	N	not requested
1054	69	-014MSD	.01	↓	<2	1x	↓	↓	✓	N	↓ ↓
											TCL 1/16/7

Last Analysis within 12-Hour clock? ☑ Yes ☐ No CCV Used? ☒ #3 ☐ #4 MS/MSD present? ☒ Yes ☐ No

Columbia Analytical Services

GC/MS VOA Injection Log

MSK; Karl

Date
01/18/07 N

Analyst: R

ICAL Date/Time: 01/11/07

Method: SW846 8260B

Internal Standard Std Prep # 9MSV-35-2

BFB / Surrogate Std Prep # 9MSV-35-1

Calibration Std Prep # 9MSV-34-2A

QCALTSTD / LCS Std Prep # 9MSV-34-3A

MS/MSD Std Prep # ↓

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
—	K070426	BFB	NA	WA	NA	NA	NA	NA	✓	N	Use 2nd
2126	27	BFB							✓	✓	
2153	28	VSTD010							✓	N	Use 2nd
2219	29	VSTD010							✓	✓	
2246	30	K0118W02LCS							✓	✓	
2312	31	K0118W02LCSD							✓	✓	
—	32	Wash							—	—	
0005	33	K0118W02	↓		↓	↓			✓	✓	
0032	34	D0700051-002	.01		<2	1x			✓	✓	SB
0059	35	-003	.01		<2	1x			✓	✓	↓
0125	36	D0700526-003	.02		<2	1x			✓	✓	TDY
0152	37	-006	.02		<2	1x			✓	✓	
0218	38	-007	.02		<2	1x			✓	✓	
0245	39	-008	.02		<2	1x			✓	✓	
0311	40	-009	.02		<2	1x			✓	✓	
0338	41	-010	.02		<2	1x			✓	✓	
0404	42	-011	.02		<2	1x			✓	✓	
0431	43	-012	.02		<2	1x			✓	✓	
0457	44	-013	.02		<2	1x			✓	✓	
0523	45	-014	.02		<2	1x			✓	✓	
0550	46	-015	.02		<2	1x			✓	✓	
0616	47	-015DL	.02		<2	10x			✓	N	not needed
0643	48	-016	.02		<2	1x			✓	✓	
0709	49	-001	.02		<2	10x			N	✓	CIS @ 293 (2920); TCE @ 251 (2570) Tet @ 318 (3180)
0736	50	-001DL	.02		<2	100x			✓	✓	
0802	51	-002	.02		<2	10x			N	✓	CIS @ 422 (4220)
0829	52	-002DL	.02		<2	100x			✓	✓	
0855	53	-004DL	.02		<2	20x			✓	✓	
0922	54	-005DL	.02	↓	<2	20x	↓	↓	✓	✓	↓
											1/18/7

Last Analysis within 12-Hour clock? ☒ Yes ☐ No CCV Used? ☒ #3 ☐ #4 MS/MSD present? ☐ Yes ☒ No LCS/LCSD

GC/MS SEMIVOLATILE ORGANICS

Client: GeoSyntec Consultants
Project: TDY/SC0307
Service Request: D0700056

Cover Page - Organic Analysis Data Package
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name	Lab Code	Date Collected	Date Received
BLD120-MW-1	D0700056-001	01/09/2007	01/13/2007
BLD120-MW-6	D0700056-002	01/09/2007	01/13/2007
BLD120-MW-2	D0700056-004	01/09/2007	01/13/2007
BLD120-MW-3	D0700056-005	01/09/2007	01/13/2007
BLD120-MW-4	D0700056-006	01/10/2007	01/13/2007
BLD120-MW-5	D0700056-007	01/10/2007	01/13/2007
BLD102-MW-4	D0700056-008	01/10/2007	01/13/2007
MWCL-1	D0700056-009	01/10/2007	01/13/2007
MWCL-2	D0700056-010	01/11/2007	01/13/2007
MWCL-3	D0700056-011	01/11/2007	01/13/2007
MWCL-4	D0700056-012	01/11/2007	01/13/2007
MWCL-6	D0700056-013	01/11/2007	01/13/2007
MWCL-7	D0700056-014	01/12/2007	01/13/2007
MWCL-5	D0700056-015	01/12/2007	01/13/2007
MWCL-8	D0700056-016	01/12/2007	01/13/2007

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Gina Johnson Name: Gina Johnson

Date: 1/19/07 Title: Chemist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-1
Lab Code: D0700056-001

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	**1100**	D	39	8.2	20	01/15/07	01/19/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-1
Lab Code: D0700056-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**13**		4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	ND	U	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-1
Lab Code: D0700056-001

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	87	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	99	47-110	01/18/07	Acceptable
2-Fluorophenol	84	23-115	01/18/07	Acceptable
Nitrobenzene-d5	98	42-122	01/18/07	Acceptable
Phenol-d5	87	23-121	01/18/07	Acceptable
Terphenyl-d14	106	37-130	01/18/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-6
Lab Code: D0700056-002

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	**33**		2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-6
Lab Code: D0700056-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**0.91**	J	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	ND	U	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-6
Lab Code: D0700056-002

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	83	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	93	47-110	01/18/07	Acceptable
2-Fluorophenol	83	23-115	01/18/07	Acceptable
Nitrobenzene-d5	96	42-122	01/18/07	Acceptable
Phenol-d5	86	23-121	01/18/07	Acceptable
Terphenyl-d14	99	37-130	01/18/07	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-2
Lab Code: D0700056-004

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	**34**		2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-2
Lab Code: D0700056-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	ND	U	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0700056
Project:	TDY/SC0307	**Date Collected:**	01/09/2007
Sample Matrix:	Water	**Date Received:**	01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	BLD120-MW-2	**Units:**	ug/L
Lab Code:	D0700056-004	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	80	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	94	47-110	01/18/07	Acceptable
2-Fluorophenol	81	23-115	01/18/07	Acceptable
Nitrobenzene-d5	94	42-122	01/18/07	Acceptable
Phenol-d5	85	23-121	01/18/07	Acceptable
Terphenyl-d14	96	37-130	01/18/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-3
Lab Code: D0700056-005

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	**46**		2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-3
Lab Code: D0700056-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	ND	U	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-3
Lab Code: D0700056-005

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	81	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	95	47-110	01/18/07	Acceptable
2-Fluorophenol	83	23-115	01/18/07	Acceptable
Nitrobenzene-d5	98	42-122	01/18/07	Acceptable
Phenol-d5	87	23-121	01/18/07	Acceptable
Terphenyl-d14	96	37-130	01/18/07	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-4
Lab Code: D0700056-006

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	ND	U	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-4
Lab Code: D0700056-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.33**	J	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-4
Lab Code: D0700056-006

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	87	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	95	47-110	01/18/07	Acceptable
2-Fluorophenol	84	23-115	01/18/07	Acceptable
Nitrobenzene-d5	97	42-122	01/18/07	Acceptable
Phenol-d5	89	23-121	01/18/07	Acceptable
Terphenyl-d14	97	37-130	01/18/07	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-5
Lab Code: D0700056-007

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	ND	U	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-5
Lab Code: D0700056-007

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**0.38**	J	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.28**	J	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD120-MW-5
Lab Code: D0700056-007

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	79	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	91	47-110	01/18/07	Acceptable
2-Fluorophenol	76	23-115	01/18/07	Acceptable
Nitrobenzene-d5	92	42-122	01/18/07	Acceptable
Phenol-d5	81	23-121	01/18/07	Acceptable
Terphenyl-d14	76	37-130	01/18/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD102-MW-4
Lab Code: D0700056-008

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/19/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/19/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/19/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/19/07	DWG0700129	
1,4-Dioxane	ND	U	2.0	0.41	1	01/15/07	01/19/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/19/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/19/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/19/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/19/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/19/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/19/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/19/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/19/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/19/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/19/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/19/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/19/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/19/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/19/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/19/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/19/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/19/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/19/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/19/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/19/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/19/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/19/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/19/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/19/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/19/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/19/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/19/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/19/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/19/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD102-MW-4
Lab Code: D0700056-008

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/19/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/19/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/19/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/19/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/19/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/19/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/19/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/19/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**0.38**	J	4.8	0.30	1	01/15/07	01/19/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/19/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/19/07	DWG0700129	
Di-n-butyl Phthalate	**0.27**	J	4.8	0.25	1	01/15/07	01/19/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/19/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/19/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/19/07	DWG0700129	
Diethyl Phthalate	**0.70**	J	4.8	0.28	1	01/15/07	01/19/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/19/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/19/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/19/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/19/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/19/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/19/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/19/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/19/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/19/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/19/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/19/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/19/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/19/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/19/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/19/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/19/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/19/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/19/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: BLD102-MW-4
Lab Code: D0700056-008

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/19/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	78	31-112	01/19/07	Acceptable
2-Fluorobiphenyl	118	47-110	01/19/07	Outside Control Limits
2-Fluorophenol	82	23-115	01/19/07	Acceptable
Nitrobenzene-d5	93	42-122	01/19/07	Acceptable
Phenol-d5	4	23-121	01/19/07	Outside Control Limits
Terphenyl-d14	100	37-130	01/19/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-1
Lab Code: D0700056-009

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	**6.0**		2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-1
Lab Code: D0700056-009

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**0.71**	J	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.34**	J	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0700056
Project:	TDY/SC0307	**Date Collected:**	01/10/2007
Sample Matrix:	Water	**Date Received:**	01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	MWCL-1	**Units:**	ug/L
Lab Code:	D0700056-009	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	81	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	93	47-110	01/18/07	Acceptable
2-Fluorophenol	82	23-115	01/18/07	Acceptable
Nitrobenzene-d5	94	42-122	01/18/07	Acceptable
Phenol-d5	79	23-121	01/18/07	Acceptable
Terphenyl-d14	102	37-130	01/18/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-2
Lab Code: D0700056-010

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	ND	U	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-2
Lab Code: D0700056-010

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**1.4**	J	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.38**	J	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-2
Lab Code: D0700056-010

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	80	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	92	47-110	01/18/07	Acceptable
2-Fluorophenol	80	23-115	01/18/07	Acceptable
Nitrobenzene-d5	93	42-122	01/18/07	Acceptable
Phenol-d5	85	23-121	01/18/07	Acceptable
Terphenyl-d14	96	37-130	01/18/07	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-3
Lab Code: D0700056-011

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	ND	U	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-3
Lab Code: D0700056-011

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**1.8**	J	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.49**	J	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-3
Lab Code: D0700056-011

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	89	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	96	47-110	01/18/07	Acceptable
2-Fluorophenol	87	23-115	01/18/07	Acceptable
Nitrobenzene-d5	98	42-122	01/18/07	Acceptable
Phenol-d5	92	23-121	01/18/07	Acceptable
Terphenyl-d14	97	37-130	01/18/07	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-4
Lab Code: D0700056-012

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	ND	U	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-4
Lab Code: D0700056-012

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**0.43**	J	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.39**	J	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	**0.47**	J	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-4
Lab Code: D0700056-012

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	86	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	95	47-110	01/18/07	Acceptable
2-Fluorophenol	86	23-115	01/18/07	Acceptable
Nitrobenzene-d5	98	42-122	01/18/07	Acceptable
Phenol-d5	90	23-121	01/18/07	Acceptable
Terphenyl-d14	102	37-130	01/18/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-6
Lab Code: D0700056-013

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	**1.9**	J	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	10	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	50	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	5.0	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	5.0	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	5.0	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	5.0	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	5.0	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	5.0	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	50	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	**7.1**		5.0	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	5.0	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	5.0	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	5.0	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-6
Lab Code: D0700056-013

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	50	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	10	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	5.0	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**1.3**	J	5.0	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.37**	J	5.0	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	**0.88**	J	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	**0.30**	J	5.0	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	5.0	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	**0.95**	J	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	10	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	10	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	10	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	5.0	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	**2.4**	J	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	5.0	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	30	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	5.0	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	5.0	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-6
Lab Code: D0700056-013

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	87	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	97	47-110	01/18/07	Acceptable
2-Fluorophenol	84	23-115	01/18/07	Acceptable
Nitrobenzene-d5	98	42-122	01/18/07	Acceptable
Phenol-d5	89	23-121	01/18/07	Acceptable
Terphenyl-d14	108	37-130	01/18/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-7
Lab Code: D0700056-014

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	**0.68**	J	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	**7.0**		4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-7
Lab Code: D0700056-014

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**0.51**	J	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	ND	U	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0700056
Project:	TDY/SC0307	**Date Collected:**	01/12/2007
Sample Matrix:	Water	**Date Received:**	01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	MWCL-7	**Units:**	ug/L
Lab Code:	D0700056-014	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	81	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	89	47-110	01/18/07	Acceptable
2-Fluorophenol	82	23-115	01/18/07	Acceptable
Nitrobenzene-d5	93	42-122	01/18/07	Acceptable
Phenol-d5	86	23-121	01/18/07	Acceptable
Terphenyl-d14	90	37-130	01/18/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-5
Lab Code: D0700056-015

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	ND	U	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-5
Lab Code: D0700056-015

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**0.92**	J	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.44**	J	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-5
Lab Code: D0700056-015

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	84	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	94	47-110	01/18/07	Acceptable
2-Fluorophenol	85	23-115	01/18/07	Acceptable
Nitrobenzene-d5	95	42-122	01/18/07	Acceptable
Phenol-d5	86	23-121	01/18/07	Acceptable
Terphenyl-d14	99	37-130	01/18/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-8
Lab Code: D0700056-016

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	ND	U	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	48	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	4.8	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	4.8	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	4.8	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	4.8	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-8
Lab Code: D0700056-016

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	48	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**8.7**		4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.43**	J	4.8	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	**1.4**	J	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	9.6	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	9.6	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	4.8	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	4.8	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	4.8	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	29	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	4.8	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	4.8	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	4.8	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-8
Lab Code: D0700056-016

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	70	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	90	47-110	01/18/07	Acceptable
2-Fluorophenol	76	23-115	01/18/07	Acceptable
Nitrobenzene-d5	91	42-122	01/18/07	Acceptable
Phenol-d5	80	23-121	01/18/07	Acceptable
Terphenyl-d14	79	37-130	01/18/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0700129-3

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	01/15/07	01/18/07	DWG0700129	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	01/15/07	01/18/07	DWG0700129	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	01/15/07	01/18/07	DWG0700129	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	01/15/07	01/18/07	DWG0700129	
1,4-Dioxane	ND	U	2.0	0.41	1	01/15/07	01/18/07	DWG0700129	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	01/15/07	01/18/07	DWG0700129	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	01/15/07	01/18/07	DWG0700129	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	01/15/07	01/18/07	DWG0700129	
2,4-Dimethylphenol	ND	U	10	0.83	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrophenol	ND	U	50	10	1	01/15/07	01/18/07	DWG0700129	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	01/15/07	01/18/07	DWG0700129	
2-Chloronaphthalene	ND	U	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
2-Chlorophenol	ND	U	5.0	0.24	1	01/15/07	01/18/07	DWG0700129	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	01/15/07	01/18/07	DWG0700129	
2-Methylnaphthalene	ND	U	5.0	0.18	1	01/15/07	01/18/07	DWG0700129	
2-Methylphenol	ND	U	5.0	0.32	1	01/15/07	01/18/07	DWG0700129	
2-Nitroaniline	ND	U	20	0.27	1	01/15/07	01/18/07	DWG0700129	
2-Nitrophenol	ND	U	5.0	0.26	1	01/15/07	01/18/07	DWG0700129	
3,3'-Dichlorobenzidine	**3.1**	J	20	0.84	1	01/15/07	01/18/07	DWG0700129	
3-Nitroaniline	ND	U	20	0.29	1	01/15/07	01/18/07	DWG0700129	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	01/15/07	01/18/07	DWG0700129	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	01/15/07	01/18/07	DWG0700129	
4-Chloroaniline	ND	U	5.0	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
4-Methylphenol	ND	U	5.0	0.28	1	01/15/07	01/18/07	DWG0700129	
4-Nitroaniline	ND	U	20	0.36	1	01/15/07	01/18/07	DWG0700129	
4-Nitrophenol	ND	U	50	20	1	01/15/07	01/18/07	DWG0700129	
Acenaphthene	ND	U	5.0	0.15	1	01/15/07	01/18/07	DWG0700129	
Acenaphthylene	ND	U	5.0	0.23	1	01/15/07	01/18/07	DWG0700129	
Aniline	ND	U	5.0	0.34	1	01/15/07	01/18/07	DWG0700129	
Anthracene	ND	U	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Benz(a)anthracene	ND	U	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Benzo(a)pyrene	ND	U	5.0	0.54	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0700129-3

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	01/15/07	01/18/07	DWG0700129	
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	01/15/07	01/18/07	DWG0700129	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	01/15/07	01/18/07	DWG0700129	
Benzoic acid	ND	U	50	20	1	01/15/07	01/18/07	DWG0700129	
Benzyl alcohol	ND	U	10	0.22	1	01/15/07	01/18/07	DWG0700129	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	01/15/07	01/18/07	DWG0700129	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-Chloroisopropyl)ether	ND	U	5.0	0.24	1	01/15/07	01/18/07	DWG0700129	
Bis(2-ethylhexyl) Phthalate	**0.74**	J	5.0	0.30	1	01/15/07	01/18/07	DWG0700129	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	01/15/07	01/18/07	DWG0700129	
Chrysene	ND	U	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
Di-n-butyl Phthalate	**0.31**	J	5.0	0.25	1	01/15/07	01/18/07	DWG0700129	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	01/15/07	01/18/07	DWG0700129	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	01/15/07	01/18/07	DWG0700129	
Dibenzofuran	ND	U	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
Diethyl Phthalate	ND	U	5.0	0.28	1	01/15/07	01/18/07	DWG0700129	
Dimethyl Phthalate	ND	U	5.0	0.26	1	01/15/07	01/18/07	DWG0700129	
Fluoranthene	ND	U	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Fluorene	ND	U	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobenzene	ND	U	2.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Hexachlorobutadiene	ND	U	10	0.22	1	01/15/07	01/18/07	DWG0700129	
Hexachlorocyclopentadiene	ND	U	10	1.8	1	01/15/07	01/18/07	DWG0700129	
Hexachloroethane	ND	U	10	2.5	1	01/15/07	01/18/07	DWG0700129	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	01/15/07	01/18/07	DWG0700129	
Isophorone	ND	U	5.0	0.30	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	01/15/07	01/18/07	DWG0700129	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	01/15/07	01/18/07	DWG0700129	
Naphthalene	ND	U	5.0	0.21	1	01/15/07	01/18/07	DWG0700129	
Nitrobenzene	ND	U	5.0	0.26	1	01/15/07	01/18/07	DWG0700129	
Pentachlorophenol	ND	U	30	0.63	1	01/15/07	01/18/07	DWG0700129	
Phenanthrene	ND	U	5.0	0.22	1	01/15/07	01/18/07	DWG0700129	
Phenol	ND	U	5.0	0.11	1	01/15/07	01/18/07	DWG0700129	
Pyrene	ND	U	5.0	0.33	1	01/15/07	01/18/07	DWG0700129	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0700129-3

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	0.33	1	01/15/07	01/18/07	DWG0700129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	72	31-112	01/18/07	Acceptable
2-Fluorobiphenyl	93	47-110	01/18/07	Acceptable
2-Fluorophenol	82	23-115	01/18/07	Acceptable
Nitrobenzene-d5	94	42-122	01/18/07	Acceptable
Phenol-d5	86	23-121	01/18/07	Acceptable
Terphenyl-d14	93	37-130	01/18/07	Acceptable

Comments:

QC Summary

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056

Surrogate Recovery Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2		Sur3	Sur4	Sur5		Sur6
BLD120-MW-1	D0700056-001	87	99		84	98	87		106
BLD120-MW-6	D0700056-002	83	93		83	96	86		99
BLD120-MW-2	D0700056-004	80	94		81	94	85		96
BLD120-MW-3	D0700056-005	81	95		83	98	87		96
BLD120-MW-4	D0700056-006	87	95		84	97	89		97
BLD120-MW-5	D0700056-007	79	91		76	92	81		76
BLD102-MW-4	D0700056-008	78	118	*	82	93	4	*	100
MWCL-1	D0700056-009	81	93		82	94	79		102
MWCL-2	D0700056-010	80	92		80	93	85		96
MWCL-3	D0700056-011	89	96		87	98	92		97
MWCL-4	D0700056-012	86	95		86	98	90		102
MWCL-6	D0700056-013	87	97		84	98	89		108
MWCL-7	D0700056-014	81	89		82	93	86		90
MWCL-5	D0700056-015	84	94		85	95	86		99
MWCL-8	D0700056-016	70	90		76	91	80		79
Method Blank	DWG0700129-3	72	93		82	94	86		93
Lab Control Sample	DWG0700129-1	82	94		79	94	86		96
Duplicate Lab Control Sample	DWG0700129-2	79	94		83	95	86		94

Surrogate Recovery Control Limits (%)

Sur1 = 2,4,6-Tribromophenol	31-112	Sur5 = Phenol-d5	23-121
Sur2 = 2-Fluorobiphenyl	47-110	Sur6 = Terphenyl-d14	37-130
Sur3 = 2-Fluorophenol	23-115		
Sur4 = Nitrobenzene-d5	42-122		

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/18/2007
Time Analyzed: 14:13

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E070118\E070051.D
Instrument ID: MSE
Analysis Method: 8270C

Lab Code: DWG0700130-2
Analysis Lot: DWG0700130

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	133,016	6.28	292,619	10.18	272,240	16.65
	Upper Limit ==>	266,032	6.78	585,238	10.68	544,480	17.15
	Lower Limit ==>	66,508	5.78	146,310	9.68	136,120	16.15
	ICAL Result ==>	187,948	6.36	416,321	10.26	304,961	16.79
Associated Analyses							
Method Blank	DWG0700129-3	134,021	6.28	300,514	10.17	263,920	16.64
Lab Control Sample	DWG0700129-1	139,477	6.28	324,637	10.18	303,551	16.65
Duplicate Lab Control Sample	DWG0700129-2	122,874	6.28	284,328	10.18	271,247	16.64
BLD120-MW-1	D0700056-001	148,683	6.28	327,489	10.17	270,345	16.63
BLD120-MW-6	D0700056-002	147,872	6.28	330,053	10.17	249,974	16.64
BLD120-MW-2	D0700056-004	160,428	6.28	361,928	10.18	308,456	16.64
BLD120-MW-3	D0700056-005	135,143	6.28	304,323	10.17	263,575	16.63
BLD120-MW-4	D0700056-006	130,718	6.28	295,893	10.18	261,153	16.64
BLD120-MW-5	D0700056-007	108,603	6.28	235,427	10.17	199,870	16.63
MWCL-1	D0700056-009	133,599	6.28	291,384	10.18	225,590	16.63
MWCL-2	D0700056-010	159,130	6.28	357,793	10.18	295,844	16.64
MWCL-3	D0700056-011	179,029	6.28	410,514	10.17	352,691	16.63
MWCL-4	D0700056-012	169,059	6.28	385,487	10.18	319,693	16.64
MWCL-6	D0700056-013	153,785	6.28	344,356	10.18	273,145	16.64
MWCL-7	D0700056-014	153,212	6.28	342,319	10.18	277,084	16.64
MWCL-5	D0700056-015	164,949	6.28	363,195	10.17	281,106	16.63
MWCL-8	D0700056-016	182,748	6.28	421,033	10.18	365,655	16.64

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/18/2007
Time Analyzed: 14:13

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E070118\E070051.D
Instrument ID: MSE
Analysis Method: 8270C

Lab Code: DWG0700130-2
Analysis Lot: DWG0700130

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	521,098	7.93	161,716	19.71	464,760	12.05
	Upper Limit ==>	1,042,196	8.43	323,432	20.21	929,520	12.55
	Lower Limit ==>	260,549	7.43	80,858	19.21	232,380	11.55
	ICAL Result ==>	748,255	8.02	143,248	19.91	621,575	12.15
Associated Analyses							
Method Blank	DWG0700129-3	537,245	7.93	178,436	19.70	458,051	12.05
Lab Control Sample	DWG0700129-1	558,278	7.94	176,677	19.71	518,539	12.06
Duplicate Lab Control Sample	DWG0700129-2	493,017	7.93	168,412	19.70	463,610	12.05
BLD120-MW-1	D0700056-001	580,767	7.93	160,177	19.70	509,701	12.05
BLD120-MW-6	D0700056-002	587,158	7.93	146,060	19.70	500,344	12.05
BLD120-MW-2	D0700056-004	635,470	7.93	196,943	19.70	555,721	12.05
BLD120-MW-3	D0700056-005	538,762	7.93	155,459	19.70	475,035	12.05
BLD120-MW-4	D0700056-006	521,980	7.93	169,052	19.70	459,968	12.05
BLD120-MW-5	D0700056-007	422,708	7.93	123,297	19.69	358,933	12.04
MWCL-1	D0700056-009	527,159	7.93	107,956	19.70	450,054	12.05
MWCL-2	D0700056-010	635,787	7.93	177,237	19.70	550,772	12.05
MWCL-3	D0700056-011	723,608	7.93	214,166	19.70	638,673	12.05
MWCL-4	D0700056-012	679,657	7.93	199,363	19.70	595,950	12.05
MWCL-6	D0700056-013	610,616	7.93	153,264	19.70	528,981	12.05
MWCL-7	D0700056-014	609,145	7.93	167,546	19.70	521,849	12.05
MWCL-5	D0700056-015	650,016	7.93	182,002	19.69	549,686	12.05
MWCL-8	D0700056-016	737,727	7.93	211,973	19.70	656,985	12.05

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/19/2007
Time Analyzed: 11:45

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E070119\E070071.D
Instrument ID: MSE
Analysis Method: 8270C

Lab Code: DWG0700131-2
Analysis Lot: DWG0700131

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	139,800	6.28	318,901	10.18	275,800	16.64
	Upper Limit ==>	279,600	6.78	637,802	10.68	551,600	17.14
	Lower Limit ==>	69,900	5.78	159,451	9.68	137,900	16.14
	ICAL Result ==>	187,948	6.36	416,321	10.26	304,961	16.79
Associated Analyses							
BLD120-MW-1DL	D0700056-001	187,262	6.28	403,981	10.18	290,275	16.64
BLD102-MW-4	D0700056-008	154,759	6.28	262,538	10.18	255,072	16.64

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/19/2007
Time Analyzed: 11:45

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E070119\E070071.D
Instrument ID: MSE
Analysis Method: 8270C

Lab Code: DWG0700131-2
Analysis Lot: DWG0700131

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	559,812	7.94	136,739	19.70	510,031	12.05
	Upper Limit ==>	1,119,624	8.44	273,478	20.20	1,020,062	12.55
	Lower Limit ==>	279,906	7.44	68,370	19.20	255,016	11.55
	ICAL Result ==>	748,255	8.02	143,248	19.91	621,575	12.15
Associated Analyses							
BLD120-MW-1DL	D0700056-001	740,449	7.93	168,439	19.70	602,186	12.05
BLD102-MW-4	D0700056-008	612,951	7.93	72,501	19.70	514,558	12.05

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Extracted: 01/15/2007
Date Analyzed: 01/18/2007

Lab Control Spike/Duplicate Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: DWG0700129

	Lab Control Sample DWG0700129-1 Lab Control Spike			Duplicate Lab Control Sample DWG0700129-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	40.9	50.0	82	41.4	50.0	83	30-101	1	20
1,2-Dichlorobenzene	39.7	50.0	79	40.4	50.0	81	20-105	2	20
1,3-Dichlorobenzene	38.5	50.0	77	39.4	50.0	79	15-104	2	20
1,4-Dichlorobenzene	38.9	50.0	78	39.4	50.0	79	19-102	1	20
1,4-Dioxane	38.6	50.0	77	41.0	50.0	82	35-101	6	20
2,4,5-Trichlorophenol	45.2	50.0	90	45.3	50.0	91	48-114	0	20
2,4,6-Trichlorophenol	45.5	50.0	91	46.2	50.0	92	48-112	1	20
2,4-Dichlorophenol	47.6	50.0	95	47.8	50.0	96	49-114	1	20
2,4-Dimethylphenol	47.3	50.0	95	47.4	50.0	95	38-107	0	20
2,4-Dinitrophenol	67.4	100	67	63.7	100	64	16-134	6	20
2,4-Dinitrotoluene	47.4	50.0	95	48.2	50.0	96	23-132	2	20
2,6-Dinitrotoluene	47.2	50.0	94	46.9	50.0	94	47-116	1	20
2-Chloronaphthalene	43.1	50.0	86	43.4	50.0	87	41-113	1	20
2-Chlorophenol	44.0	50.0	88	45.0	50.0	90	45-108	2	20
2-Methyl-4,6-dinitrophenol	76.6	100	77	73.1	100	73	21-134	5	20
2-Methylnaphthalene	45.2	50.0	90	44.8	50.0	90	41-112	1	20
2-Methylphenol	45.1	50.0	90	46.3	50.0	93	44-110	3	20
2-Nitroaniline	44.1	50.0	88	43.6	50.0	87	19-137	1	20
2-Nitrophenol	44.3	50.0	89	44.6	50.0	89	47-117	1	20
3,3'-Dichlorobenzidine	97.5	100	97	97.9	100	98	10-122	0	20
3-Nitroaniline	52.9	50.0	106	53.2	50.0	106	25-146	1	20
4-Bromophenyl Phenyl Ether	41.0	50.0	82	40.4	50.0	81	46-117	1	20
4-Chloro-3-methylphenol	48.8	50.0	98	48.5	50.0	97	45-115	1	20
4-Chloroaniline	50.1	50.0	100	50.7	50.0	101	16-139	1	20
4-Chlorophenyl Phenyl Ether	47.5	50.0	95	47.7	50.0	95	45-115	0	20
4-Methylphenol	46.2	50.0	92	46.7	50.0	93	60-108	1	20
4-Nitroaniline	51.9	50.0	104	51.7	50.0	103	16-147	0	20
4-Nitrophenol	89.4	100	89	87.5	100	88	10-134	2	20
Acenaphthene	45.5	50.0	91	45.7	50.0	91	39-119	0	20
Acenaphthylene	45.3	50.0	91	45.4	50.0	91	51-112	0	20
Aniline	44.9	50.0	90	46.2	50.0	92	10-144	3	20
Anthracene	46.9	50.0	94	46.5	50.0	93	40-123	1	20
Benz(a)anthracene	46.3	50.0	93	46.1	50.0	92	36-126	0	20
Benzo(a)pyrene	45.7	50.0	91	45.5	50.0	91	41-125	0	20
Benzo(b)fluoranthene	45.4	50.0	91	44.4	50.0	89	48-126	2	20
Benzo(g,h,i)perylene	47.7	50.0	95	52.6	50.0	105	33-138	10	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Extracted: 01/15/2007
Date Analyzed: 01/18/2007

Lab Control Spike/Duplicate Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: DWG0700129

	Lab Control Sample DWG0700129-1 Lab Control Spike			Duplicate Lab Control Sample DWG0700129-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Benzo(k)fluoranthene	45.4	50.0	91	43.4	50.0	87	49-125	4	20
Benzoic acid	162	250	65	134	250	54	10-148	19	20
Benzyl alcohol	45.9	50.0	92	45.8	50.0	92	48-119	0	20
bis(2-Chloroethoxy)methane	45.5	50.0	91	46.0	50.0	92	39-120	1	20
Bis(2-chloroethyl) Ether	43.9	50.0	88	44.7	50.0	89	41-108	2	20
Bis(2-Chloroisopropyl)ether	39.5	50.0	79	40.1	50.0	80	38-119	1	20
Bis(2-ethylhexyl) Phthalate	61.1	50.0	122	61.8	50.0	124	42-127	1	20
Butyl Benzyl Phthalate	53.9	50.0	108	54.0	50.0	108	40-126	0	20
Chrysene	45.9	50.0	92	45.7	50.0	91	47-117	0	20
Di-n-butyl Phthalate	51.5	50.0	103	51.3	50.0	103	40-126	0	20
Di-n-octyl Phthalate	61.1	50.0	122	58.3	50.0	117	48-127	5	20
Dibenz(a,h)anthracene	49.2	50.0	98	53.4	50.0	107	44-137	8	20
Dibenzofuran	46.5	50.0	93	46.5	50.0	93	45-115	0	20
Diethyl Phthalate	48.1	50.0	96	48.1	50.0	96	41-120	0	20
Dimethyl Phthalate	46.7	50.0	93	46.9	50.0	94	46-116	0	20
Fluoranthene	51.9	50.0	104	51.5	50.0	103	35-127	1	20
Fluorene	47.3	50.0	95	47.0	50.0	94	46-121	1	20
Hexachlorobenzene	39.6	50.0	79	39.2	50.0	78	44-117	1	20
Hexachlorobutadiene	35.6	50.0	71	36.4	50.0	73	17-101	2	20
Hexachlorocyclopentadiene	17.2	50.0	34	16.2	50.0	32	10-74	6	20
Hexachloroethane	37.1	50.0	74	38.1	50.0	76	10-105	3	20
Indeno(1,2,3-cd)pyrene	48.4	50.0	97	52.6	50.0	105	38-131	8	20
Isophorone	46.9	50.0	94	47.1	50.0	94	44-115	0	20
N-Nitrosodi-n-propylamine	46.8	50.0	94	47.0	50.0	94	43-112	0	20
N-Nitrosodimethylamine	41.7	50.0	83	42.1	50.0	84	35-119	1	20
N-Nitrosodiphenylamine	45.3	50.0	91	44.3	50.0	89	53-106	2	20
Naphthalene	43.6	50.0	87	43.5	50.0	87	36-111	0	20
Nitrobenzene	46.4	50.0	93	46.2	50.0	92	42-116	0	20
Pentachlorophenol	71.6	100	72	68.8	100	69	15-141	4	20
Phenanthrene	46.2	50.0	92	45.8	50.0	92	43-120	1	20
Phenol	44.3	50.0	89	44.7	50.0	89	20-119	1	20
Pyrene	47.6	50.0	95	47.2	50.0	94	29-140	1	20
Pyridine	36.8	50.0	74	32.9	50.0	66	23-98	11	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Extracted: 01/15/2007
Date Analyzed: 01/18/2007
Time Analyzed: 14:45

Method Blank Summary
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0700129-3

File ID: Q:\TARGET\CHEM\MSE.I\E070118\E070052
Instrument ID: MSE

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low
Extraction Lot: DWG0700129

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	DWG0700129-1	Q:\TARGET\CHEM\MSE.I\E070118\E070053.D	01/18/07	15:17
Duplicate Lab Control Sample	DWG0700129-2	Q:\TARGET\CHEM\MSE.I\E070118\E070054.D	01/18/07	15:50
BLD120-MW-1	D0700056-001	Q:\TARGET\CHEM\MSE.I\E070118\E070055.D	01/18/07	16:22
BLD120-MW-6	D0700056-002	Q:\TARGET\CHEM\MSE.I\E070118\E070056.D	01/18/07	16:54
BLD120-MW-2	D0700056-004	Q:\TARGET\CHEM\MSE.I\E070118\E070057.D	01/18/07	17:27
BLD120-MW-3	D0700056-005	Q:\TARGET\CHEM\MSE.I\E070118\E070058.D	01/18/07	17:59
BLD120-MW-4	D0700056-006	Q:\TARGET\CHEM\MSE.I\E070118\E070059.D	01/18/07	18:31
BLD120-MW-5	D0700056-007	Q:\TARGET\CHEM\MSE.I\E070118\E070060.D	01/18/07	19:04
MWCL-1	D0700056-009	Q:\TARGET\CHEM\MSE.I\E070118\E070062.D	01/18/07	20:08
MWCL-2	D0700056-010	Q:\TARGET\CHEM\MSE.I\E070118\E070063.D	01/18/07	20:40
MWCL-3	D0700056-011	Q:\TARGET\CHEM\MSE.I\E070118\E070064.D	01/18/07	21:13
MWCL-4	D0700056-012	Q:\TARGET\CHEM\MSE.I\E070118\E070065.D	01/18/07	21:45
MWCL-6	D0700056-013	Q:\TARGET\CHEM\MSE.I\E070118\E070066.D	01/18/07	22:17
MWCL-7	D0700056-014	Q:\TARGET\CHEM\MSE.I\E070118\E070067.D	01/18/07	22:50
MWCL-5	D0700056-015	Q:\TARGET\CHEM\MSE.I\E070118\E070068.D	01/18/07	23:22
MWCL-8	D0700056-016	Q:\TARGET\CHEM\MSE.I\E070118\E070069.D	01/18/07	23:54
BLD120-MW-1	D0700056-001	Q:\TARGET\CHEM\MSE.I\E070119\E070072.D	01/19/07	12:57
BLD102-MW-4	D0700056-008	Q:\TARGET\CHEM\MSE.I\E070119\E070073.D	01/19/07	13:29

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056

Lab Control Sample/Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	Lab Control Sample	**Sample Name:**	Duplicate Lab Control Sample
Lab Code:	DWG0700129-1	**Lab Code:**	DWG0700129-2
File ID:	Q:\TARGET\CHEM\MSE.I\E070118\E070053.D	**File ID:**	Q:\TARGET\CHEM\MSE.I\E070118\E070054.D
Instrument ID:	MSE	**Instrument ID:**	MSE
Date Extracted:	01/15/2007	**Date Extracted:**	01/15/2007
Date Analyzed:	01/18/2007	**Date Analyzed:**	01/18/2007
Time Analyzed:	15:17	**Time Analyzed:**	15:50

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low
Extraction Lot: DWG0700129

These Lab Control Samples apply to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	DWG0700129-3	Q:\TARGET\CHEM\MSE.I\E070118\E070052.D	01/18/07	14:45
BLD120-MW-1	D0700056-001	Q:\TARGET\CHEM\MSE.I\E070118\E070055.D	01/18/07	16:22
BLD120-MW-6	D0700056-002	Q:\TARGET\CHEM\MSE.I\E070118\E070056.D	01/18/07	16:54
BLD120-MW-2	D0700056-004	Q:\TARGET\CHEM\MSE.I\E070118\E070057.D	01/18/07	17:27
BLD120-MW-3	D0700056-005	Q:\TARGET\CHEM\MSE.I\E070118\E070058.D	01/18/07	17:59
BLD120-MW-4	D0700056-006	Q:\TARGET\CHEM\MSE.I\E070118\E070059.D	01/18/07	18:31
BLD120-MW-5	D0700056-007	Q:\TARGET\CHEM\MSE.I\E070118\E070060.D	01/18/07	19:04
MWCL-1	D0700056-009	Q:\TARGET\CHEM\MSE.I\E070118\E070062.D	01/18/07	20:08
MWCL-2	D0700056-010	Q:\TARGET\CHEM\MSE.I\E070118\E070063.D	01/18/07	20:40
MWCL-3	D0700056-011	Q:\TARGET\CHEM\MSE.I\E070118\E070064.D	01/18/07	21:13
MWCL-4	D0700056-012	Q:\TARGET\CHEM\MSE.I\E070118\E070065.D	01/18/07	21:45
MWCL-6	D0700056-013	Q:\TARGET\CHEM\MSE.I\E070118\E070066.D	01/18/07	22:17
MWCL-7	D0700056-014	Q:\TARGET\CHEM\MSE.I\E070118\E070067.D	01/18/07	22:50
MWCL-5	D0700056-015	Q:\TARGET\CHEM\MSE.I\E070118\E070068.D	01/18/07	23:22
MWCL-8	D0700056-016	Q:\TARGET\CHEM\MSE.I\E070118\E070069.D	01/18/07	23:54
BLD120-MW-1	D0700056-001	Q:\TARGET\CHEM\MSE.I\E070119\E070072.D	01/19/07	12:57
BLD102-MW-4	D0700056-008	Q:\TARGET\CHEM\MSE.I\E070119\E070073.D	01/19/07	13:29

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/18/2007
Time Analyzed: 12:01

Tune Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E070118\E070047.D
Instrument ID: MSE
Column:

Analysis Method: 8270C
Analysis Lot: DWG0700130

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	60	49.9	6631	PASS
68	69	0	2	0.9	54	PASS
69	198	0	100	45.4	6031	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	56.4	7485	PASS
197	198	0	1	0.5	61	PASS
198	198	100	100	100.0	13283	PASS
199	198	5	9	6.5	867	PASS
275	198	10	30	22.3	2959	PASS
365	198	1	100	2.5	337	PASS
441	443	0	100	72.1	1523	PASS
442	198	40	100	79.0	10491	PASS
443	442	17	23	20.1	2113	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	DWG0700130-2	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	14:13	
Method Blank	DWG0700129-3	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	14:45	
Lab Control Sample	DWG0700129-1	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	15:17	
Duplicate Lab Control Sample	DWG0700129-2	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	15:50	
BLD120-MW-1	D0700056-001	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	16:22	
BLD120-MW-6	D0700056-002	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	16:54	
BLD120-MW-2	D0700056-004	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	17:27	
BLD120-MW-3	D0700056-005	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	17:59	
BLD120-MW-4	D0700056-006	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	18:31	
BLD120-MW-5	D0700056-007	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	19:04	
MWCL-1	D0700056-009	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	20:08	
MWCL-2	D0700056-010	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	20:40	
MWCL-3	D0700056-011	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	21:13	
MWCL-4	D0700056-012	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	21:45	
MWCL-6	D0700056-013	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	22:17	
MWCL-7	D0700056-014	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	22:50	
MWCL-5	D0700056-015	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	23:22	
MWCL-8	D0700056-016	Q:\TARGET\CHEM\MSE.I\E070118\	01/18/2007	23:54	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/19/2007
Time Analyzed: 11:28

Tune Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E070119\E070070.D
Instrument ID: MSE
Column:

Analysis Method: 8270C
Analysis Lot: DWG0700131

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	60	49.5	8113	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	43.0	7049	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	53.5	8755	PASS
197	198	0	1	0.4	67	PASS
198	198	100	100	100.0	16379	PASS
199	198	5	9	6.0	981	PASS
275	198	10	30	21.2	3472	PASS
365	198	1	100	2.9	480	PASS
441	443	0	100	78.0	1853	PASS
442	198	40	100	76.3	12501	PASS
443	442	17	23	19.0	2376	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	DWG0700131-2	Q:\TARGET\CHEM\MSE.I\E070119\	01/19/2007	11:45	
BLD120-MW-1	D0700056-001	Q:\TARGET\CHEM\MSE.I\E070119\	01/19/2007	12:57	
BLD102-MW-4	D0700056-008	Q:\TARGET\CHEM\MSE.I\E070119\	01/19/2007	13:29	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Level ID	File ID
A	C:\MSDCHEM\1\DATA\E061226\E061879.D
B	C:\MSDCHEM\1\DATA\E061226\E061880.D
C	C:\MSDCHEM\1\DATA\E061226\E061881.D
D	C:\MSDCHEM\1\DATA\E061226\E061882.D
E	C:\MSDCHEM\1\DATA\E061226\E061883.D
F	C:\MSDCHEM\1\DATA\E061226\E061884.D
G	C:\MSDCHEM\1\DATA\E061226\E061885.D

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,2,4-Trichlorobenzene	A	2.0	0.293	B	4.0	0.300	C	10	0.300	D	25	0.296	E	50	0.295
	F	70	0.293	G	100	0.292									
1,2-Dichlorobenzene	A	2.0	1.55	B	4.0	1.56	C	10	1.53	D	25	1.53	E	50	1.54
	F	70	1.53	G	100	1.52									
1,3-Dichlorobenzene	A	2.0	1.66	B	4.0	1.62	C	10	1.60	D	25	1.62	E	50	1.61
	F	70	1.59	G	100	1.60									
‡ 1,4-Dichlorobenzene	A	2.0	1.69	B	4.0	1.68	C	10	1.65	D	25	1.65	E	50	1.63
	F	70	1.61	G	100	1.62									
1,4-Dioxane	A	2.0	0.587	B	4.0	0.604	C	10	0.593	D	25	0.587	E	50	0.588
	F	70	0.570	G	100	0.570									
2,4,5-Trichlorophenol	A	2.0	0.328	B	4.0	0.345	C	10	0.351	D	25	0.364	E	50	0.366
	F	70	0.371	G	100	0.375									
‡ 2,4,6-Trichlorophenol	A	2.0	0.299	B	4.0	0.320	C	10	0.323	D	25	0.335	E	50	0.338
	F	70	0.344	G	100	0.346									
‡ 2,4-Dichlorophenol	A	2.0	0.261	B	4.0	0.269	C	10	0.279	D	25	0.278	E	50	0.281
	F	70	0.276	G	100	0.277									
2,4-Dimethylphenol	A	2.0	0.315	B	4.0	0.324	C	10	0.319	D	25	0.329	E	50	0.329
	F	70	0.327	G	100	0.326									
† 2,4-Dinitrophenol							C	20	0.138	D	50	0.169	E	100	0.176
	F	140	0.189	G	200	0.191									
2,4-Dinitrotoluene	A	2.0	0.326	B	4.0	0.349	C	10	0.359	D	25	0.386	E	50	0.385
	F	70	0.390	G	100	0.392									
2,6-Dinitrotoluene	A	2.0	0.255	B	4.0	0.270	C	10	0.290	D	25	0.298	E	50	0.301
	F	70	0.305	G	100	0.306									
2-Chloronaphthalene	A	2.0	1.12	B	4.0	1.15	C	10	1.13	D	25	1.13	E	50	1.12
	F	70	1.13	G	100	1.11									
2-Chlorophenol	A	2.0	1.45	B	4.0	1.44	C	10	1.46	D	25	1.49	E	50	1.50
	F	70	1.49	G	100	1.49									

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Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Methyl-4,6-dinitrophenol				B	8.0	0.107	C	20	0.124	D	50	0.138	E	100	0.142
	F	140	0.145	G	200	0.145									
2-Methylnaphthalene	A	2.0	0.694	B	4.0	0.703	C	10	0.711	D	25	0.718	E	50	0.710
	F	70	0.713	G	100	0.702									
2-Methylphenol	A	2.0	1.28	B	4.0	1.25	C	10	1.29	D	25	1.32	E	50	1.30
	F	70	1.30	G	100	1.32									
2-Nitroaniline	A	2.0	0.300	B	4.0	0.314	C	10	0.342	D	25	0.356	E	50	0.362
	F	70	0.376	G	100	0.375									
‡ 2-Nitrophenol	A	2.0	0.172	B	4.0	0.181	C	10	0.204	D	25	0.250	E	50	0.196
	F	70	0.200	G	100	0.197									
3,3'-Dichlorobenzidine	A	4.0	0.309	B	8.0	0.273	C	20	0.270	D	50	0.223	E	100	0.276
	F	140	0.349	G	200	0.358									
3-Nitroaniline	A	2.0	0.235	B	4.0	0.249	C	10	0.191	D	25	0.156	E	50	0.261
	F	70	0.286	G	100	0.288									
4-Bromophenyl Phenyl Ether	A	2.0	0.204	B	4.0	0.210	C	10	0.208	D	25	0.209	E	50	0.213
	F	70	0.212	G	100	0.215									
4-Chloro-3-methylphenol	A	2.0	0.246	B	4.0	0.270	C	10	0.280	D	25	0.288	E	50	0.294
	F	70	0.293	G	100	0.292									
4-Chloroaniline	A	2.0	0.315	B	4.0	0.350	C	10	0.349	D	25	0.321	E	50	0.412
	F	70	0.409	G	100	0.407									
4-Chlorophenyl Phenyl Ether	A	2.0	0.537	B	4.0	0.562	C	10	0.553	D	25	0.559	E	50	0.555
	F	70	0.560	G	100	0.559									
4-Methylphenol	A	2.0	1.56	B	4.0	1.58	C	10	1.62	D	25	1.68	E	50	1.66
	F	70	1.68	G	100	1.69									
4-Nitroaniline	A	2.0	0.217	B	4.0	0.188	C	10	0.137	D	25	0.168	E	50	0.230
	F	70	0.263	G	100	0.265									
† 4-Nitrophenol	A	4.0	0.114	B	8.0	0.124	C	20	0.136	D	50	0.155	E	100	0.148
	F	140	0.158	G	200	0.157									
‡ Acenaphthene	A	2.0	1.18	B	4.0	1.22	C	10	1.25	D	25	1.26	E	50	1.26
	F	70	1.13	G	100	1.15									
Acenaphthylene	A	2.0	1.76	B	4.0	1.81	C	10	1.85	D	25	1.86	E	50	1.83
	F	70	1.87	G	100	1.85									
Aniline	A	2.0	1.77	B	4.0	1.91	C	10	2.07	D	25	2.07	E	50	2.09
	F	70	2.09	G	100	2.10									

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Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Anthracene	A	2.0	1.05	B	4.0	1.08	C	10	1.10	D	25	1.12	E	50	1.11
	F	70	1.10	G	100	1.11									
Benz(a)anthracene	A	2.0	1.15	B	4.0	1.12	C	10	1.14	D	25	1.17	E	50	1.18
	F	70	1.18	G	100	1.19									
‡ Benzo(a)pyrene	A	2.0	1.21	B	4.0	1.03	C	10	1.07	D	25	1.14	E	50	1.17
	F	70	1.19	G	100	1.20									
Benzo(b)fluoranthene	A	2.0	1.58	B	4.0	1.34	C	10	1.32	D	25	1.44	E	50	1.52
	F	70	1.49	G	100	1.47									
Benzo(g,h,i)perylene	A	2.0	0.728	B	4.0	0.700	C	10	0.729	D	25	0.717	E	50	0.725
	F	70	0.827	G	100	0.907									
Benzo(k)fluoranthene	A	2.0	1.57	B	4.0	1.35	C	10	1.36	D	25	1.39	E	50	1.42
	F	70	1.38	G	100	1.37									
Benzoic acid				B	20	0.165	C	50	0.194	D	130	0.224	E	250	0.229
	F	350	0.234	G	500	0.232									
Benzyl alcohol	A	2.0	0.899	B	4.0	0.896	C	10	0.931	D	25	0.964	E	50	0.962
	F	70	0.959	G	100	0.969									
bis(2-Chloroethoxy)methane	A	2.0	0.396	B	4.0	0.405	C	10	0.403	D	25	0.404	E	50	0.402
	F	70	0.398	G	100	0.392									
Bis(2-chloroethyl) Ether	A	2.0	1.46	B	4.0	1.44	C	10	1.43	D	25	1.45	E	50	1.42
	F	70	1.41	G	100	1.41									
Bis(2-Chloroisopropyl)ether	A	2.0	2.81	B	4.0	2.78	C	10	2.80	D	25	2.79	E	50	2.68
	F	70	2.64	G	100	2.60									
Bis(2-ethylhexyl) Phthalate	A	2.0	0.850	B	4.0	0.913	C	10	1.00	D	25	1.04	E	50	1.15
	F	70	1.05	G	100	1.06									
Butyl Benzyl Phthalate	A	2.0	0.738	B	4.0	0.708	C	10	0.760	D	25	0.792	E	50	0.867
	F	70	0.796	G	100	0.785									
Chrysene	A	2.0	1.12	B	4.0	1.09	C	10	1.09	D	25	1.09	E	50	1.08
	F	70	1.08	G	100	1.09									
Di-n-butyl Phthalate	A	2.0	1.07	B	4.0	1.17	C	10	1.26	D	25	1.27	E	50	1.28
	F	70	1.25	G	100	1.27									
‡ Di-n-octyl Phthalate	A	2.0	1.87	B	4.0	1.96	C	10	2.35	D	25	2.83	E	50	3.41
	F	70	2.91	G	100	2.72									
Dibenz(a,h)anthracene	A	2.0	0.763	B	4.0	0.726	C	10	0.754	D	25	0.754	E	50	0.765
	F	70	0.865	G	100	0.941									

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Project: TDY/SC0307

Service Request: D0700056
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dibenzofuran	A	2.0	1.57	B	4.0	1.59	C	10	1.57	D	25	1.59	E	50	1.58
	F	70	1.59	G	100	1.57									
Diethyl Phthalate	A	2.0	1.20	B	4.0	1.23	C	10	1.24	D	25	1.25	E	50	1.27
	F	70	1.26	G	100	1.27									
Dimethyl Phthalate	A	2.0	1.18	B	4.0	1.22	C	10	1.24	D	25	1.25	E	50	1.25
	F	70	1.26	G	100	1.26									
‡ Fluoranthene	A	2.0	0.890	B	4.0	0.921	C	10	0.952	D	25	1.00	E	50	0.961
	F	70	0.968	G	100	0.981									
Fluorene	A	2.0	1.25	B	4.0	1.27	C	10	1.28	D	25	1.29	E	50	1.29
	F	70	1.30	G	100	1.31									
Hexachlorobenzene	A	2.0	0.221	B	4.0	0.222	C	10	0.224	D	25	0.217	E	50	0.223
	F	70	0.218	G	100	0.224									
‡ Hexachlorobutadiene	A	2.0	0.153	B	4.0	0.155	C	10	0.156	D	25	0.154	E	50	0.157
	F	70	0.157	G	100	0.155									
† Hexachlorocyclopentadiene	A	2.0	0.297	B	4.0	0.307	C	10	0.319	D	25	0.322	E	50	0.327
	F	70	0.329	G	100	0.327									
Hexachloroethane	A	2.0	0.589	B	4.0	0.598	C	10	0.612	D	25	0.611	E	50	0.607
	F	70	0.610	G	100	0.615									
Indeno(1,2,3-cd)pyrene	A	2.0	0.926	B	4.0	0.819	C	10	0.865	D	25	0.869	E	50	0.884
	F	70	1.01	G	100	1.10									
Isophorone	A	2.0	0.593	B	4.0	0.621	C	10	0.639	D	25	0.650	E	50	0.657
	F	70	0.653	G	100	0.645									
† N-Nitrosodi-n-propylamine	A	2.0	0.920	B	4.0	0.941	C	10	0.951	D	25	0.974	E	50	0.990
	F	70	0.991	G	100	1.00									
N-Nitrosodimethylamine	A	2.0	0.779	B	4.0	0.777	C	10	0.753	D	25	0.770	E	50	0.756
	F	70	0.746	G	100	0.750									
‡ N-Nitrosodiphenylamine	A	2.0	0.580	B	4.0	0.598	C	10	0.584	D	25	0.502	E	50	0.564
	F	70	0.574	G	100	0.597									
Naphthalene	A	2.0	1.05	B	4.0	1.06	C	10	1.07	D	25	1.05	E	50	1.04
	F	70	1.04	G	100	1.03									
Nitrobenzene	A	2.0	0.350	B	4.0	0.349	C	10	0.357	D	25	0.360	E	50	0.357
	F	70	0.357	G	100	0.355									
‡ Pentachlorophenol				B	8.0	0.121	C	20	0.137	D	50	0.149	E	100	0.155
	F	140	0.157	G	200	0.161									

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Service Request: D0700056
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Phenanthrene	A	2.0	1.13	B	4.0	1.12	C	10	1.12	D	25	1.13	E	50	1.11
	F	70	1.11	G	100	1.12									
‡ Phenol	A	2.0	1.70	B	4.0	1.72	C	10	1.75	D	25	1.77	E	50	1.74
	F	70	1.74	G	100	1.75									
Pyrene	A	2.0	1.60	B	4.0	1.71	C	10	1.71	D	25	1.74	E	50	1.87
	F	70	1.76	G	100	1.71									
Pyridine	A	2.0	1.54	B	4.0	1.52	C	10	1.51	D	25	1.54	E	50	1.53
	F	70	1.51	G	100	1.50									
2,4,6-Tribromophenol	A	2.0	0.0823	B	4.0	0.0890	C	10	0.0945	D	25	0.0988	E	50	0.101
	F	70	0.102	G	100	0.104									
2-Fluorobiphenyl	A	2.0	1.26	B	4.0	1.27	C	10	1.27	D	25	1.26	E	50	1.25
	F	70	1.26	G	100	1.26									
2-Fluorophenol	A	2.0	1.23	B	4.0	1.26	C	10	1.27	D	25	1.29	E	50	1.29
	F	70	1.29	G	100	1.28									
Nitrobenzene-d5	A	2.0	0.320	B	4.0	0.329	C	10	0.340	D	25	0.343	E	50	0.346
	F	70	0.346	G	100	0.342									
Phenol-d5	A	2.0	1.62	B	4.0	1.62	C	10	1.64	D	25	1.67	E	50	1.66
	F	70	1.66	G	100	1.67									
Terphenyl-d14	A	2.0	1.03	B	4.0	1.08	C	10	1.11	D	25	1.12	E	50	1.22
	F	70	1.14	G	100	1.13									

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Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	1.1		≤ 15	0.296		
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	0.9		≤ 15	1.54		
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	1.4		≤ 15	1.61		
‡ 1,4-Dichlorobenzene	MS	AverageRF	% RSD	1.8		≤ 30	1.65		
1,4-Dioxane	MS	AverageRF	% RSD	2.1		≤ 15	0.586		
2,4,5-Trichlorophenol	TRG	AverageRF	% RSD	4.7		≤ 15	0.357		
‡ 2,4,6-Trichlorophenol	TRG	AverageRF	% RSD	5.0		≤ 30	0.329		
‡ 2,4-Dichlorophenol	TRG	AverageRF	% RSD	2.5		≤ 30	0.274		
2,4-Dimethylphenol	TRG	AverageRF	% RSD	1.7		≤ 15	0.324		
† 2,4-Dinitrophenol	TRG	AverageRF	% RSD	12.5		≤ 15	0.173		0.05
2,4-Dinitrotoluene	MS	AverageRF	% RSD	6.9		≤ 15	0.369		
2,6-Dinitrotoluene	TRG	AverageRF	% RSD	6.7		≤ 15	0.289		
2-Chloronaphthalene	TRG	AverageRF	% RSD	0.9		≤ 15	1.13		
2-Chlorophenol	MS	AverageRF	% RSD	1.5		≤ 15	1.47		
2-Methyl-4,6-dinitrophenol	TRG	AverageRF	% RSD	11.2		≤ 15	0.133		
2-Methylnaphthalene	TRG	AverageRF	% RSD	1.2		≤ 15	0.707		
2-Methylphenol	TRG	AverageRF	% RSD	1.7		≤ 15	1.29		
2-Nitroaniline	TRG	AverageRF	% RSD	8.6		≤ 15	0.347		
‡ 2-Nitrophenol	TRG	AverageRF	% RSD	12.4		≤ 30	0.200		
3,3'-Dichlorobenzidine	TRG	Quadratic	COD	0.995		≥ 0.99	0.294		
3-Nitroaniline	TRG	Quadratic	COD	0.993		≥ 0.99	0.238		
4-Bromophenyl Phenyl Ether	TRG	AverageRF	% RSD	1.8		≤ 15	0.210		
4-Chloro-3-methylphenol	MS	AverageRF	% RSD	6.2		≤ 15	0.280		
4-Chloroaniline	TRG	AverageRF	% RSD	11.6		≤ 15	0.366		
4-Chlorophenyl Phenyl Ether	TRG	AverageRF	% RSD	1.6		≤ 15	0.555		
4-Methylphenol	TRG	AverageRF	% RSD	3.1		≤ 15	1.64		
4-Nitroaniline	TRG	Quadratic	COD	0.996		≥ 0.99	0.210		
† 4-Nitrophenol	MS	AverageRF	% RSD	12.3		≤ 15	0.142		0.05
‡ Acenaphthene	MS	AverageRF	% RSD	4.4		≤ 30	1.21		
Acenaphthylene	TRG	AverageRF	% RSD	2.1		≤ 15	1.83		
Aniline	TRG	AverageRF	% RSD	6.2		≤ 15	2.01		
Anthracene	TRG	AverageRF	% RSD	2.1		≤ 15	1.10		
Benz(a)anthracene	TRG	AverageRF	% RSD	2.2		≤ 15	1.16		
‡ Benzo(a)pyrene	TRG	AverageRF	% RSD	6.1		≤ 30	1.14		
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	6.4		≤ 15	1.45		
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	10.0		≤ 15	0.762		
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	5.5		≤ 15	1.41		
Benzoic acid	TRG	AverageRF	% RSD	13.2		≤ 15	0.213		
Benzyl alcohol	TRG	AverageRF	% RSD	3.4		≤ 15	0.940		
bis(2-Chloroethoxy)methane	TRG	AverageRF	% RSD	1.2		≤ 15	0.400		
Bis(2-chloroethyl) Ether	TRG	AverageRF	% RSD	1.4		≤ 15	1.43		
Bis(2-Chloroisopropyl)ether	TRG	AverageRF	% RSD	3.1		≤ 15	2.73		

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Bis(2-ethylhexyl) Phthalate	TRG	AverageRF	% RSD	10.0		≤ 15	1.01		
Butyl Benzyl Phthalate	TRG	AverageRF	% RSD	6.5		≤ 15	0.778		
Chrysene	TRG	AverageRF	% RSD	1.1		≤ 15	1.09		
Di-n-butyl Phthalate	TRG	AverageRF	% RSD	6.3		≤ 15	1.23		
‡ Di-n-octyl Phthalate	TRG	AverageRF	% RSD	21.3		≤ 30	2.58		
Dibenz(a,h)anthracene	TRG	AverageRF	% RSD	9.7		≤ 15	0.795		
Dibenzofuran	TRG	AverageRF	% RSD	0.5		≤ 15	1.58		
Diethyl Phthalate	TRG	AverageRF	% RSD	2.1		≤ 15	1.25		
Dimethyl Phthalate	TRG	AverageRF	% RSD	2.2		≤ 15	1.24		
‡ Fluoranthene	TRG	AverageRF	% RSD	4.0		≤ 30	0.954		
Fluorene	TRG	AverageRF	% RSD	1.6		≤ 15	1.29		
Hexachlorobenzene	TRG	AverageRF	% RSD	1.3		≤ 15	0.221		
‡ Hexachlorobutadiene	TRG	AverageRF	% RSD	1.0		≤ 30	0.155		
† Hexachlorocyclopentadiene	TRG	AverageRF	% RSD	3.7		≤ 15	0.318		0.05
Hexachloroethane	TRG	AverageRF	% RSD	1.5		≤ 15	0.606		
Indeno(1,2,3-cd)pyrene	TRG	AverageRF	% RSD	10.4		≤ 15	0.924		
Isophorone	TRG	AverageRF	% RSD	3.6		≤ 15	0.637		
† N-Nitrosodi-n-propylamine	MS	AverageRF	% RSD	3.1		≤ 15	0.967		0.05
N-Nitrosodimethylamine	TRG	AverageRF	% RSD	1.8		≤ 15	0.762		
‡ N-Nitrosodiphenylamine	TRG	AverageRF	% RSD	5.8		≤ 15	0.571		
Naphthalene	TRG	AverageRF	% RSD	1.4		≤ 15	1.05		
Nitrobenzene	TRG	AverageRF	% RSD	1.1		≤ 15	0.355		
‡ Pentachlorophenol	MS	AverageRF	% RSD	10.1		≤ 30	0.147		
Phenanthrene	TRG	AverageRF	% RSD	0.8		≤ 15	1.12		
‡ Phenol	MS	AverageRF	% RSD	1.3		≤ 30	1.74		
Pyrene	MS	AverageRF	% RSD	4.6		≤ 15	1.73		
Pyridine	TRG	AverageRF	% RSD	1.0		≤ 15	1.52		
2,4,6-Tribromophenol	SURR	AverageRF	% RSD	8.2		≤ 15	0.0959		
2-Fluorobiphenyl	SURR	AverageRF	% RSD	0.5		≤ 15	1.26		
2-Fluorophenol	SURR	AverageRF	% RSD	1.8		≤ 15	1.27		
Nitrobenzene-d5	SURR	AverageRF	% RSD	2.8		≤ 15	0.338		
Phenol-d5	SURR	AverageRF	% RSD	1.4		≤ 15	1.65		
Terphenyl-d14	SURR	AverageRF	% RSD	5.2		≤ 15	1.12		

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/18/2007

Continuing Calibration Verification Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 12/26/2006
ICAL ID: CAL1241
Analysis Lot: DWG0700130
Units: mg/L

File ID: C:\MSDCHEM\1\DATA\E070118\E070051.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	50	54		0.296	0.316	7	NA	± 40 %	AverageRF
1,2-Dichlorobenzene	50	53		1.54	1.62	5	NA	± 40 %	AverageRF
1,3-Dichlorobenzene	50	53		1.61	1.73	7	NA	± 40 %	AverageRF
‡ 1,4-Dichlorobenzene	50	52		1.65	1.72	4	NA	± 20 %	AverageRF
1,4-Dioxane	50	52		0.586	0.608	4	NA	± 40 %	AverageRF
2,4,5-Trichlorophenol	50	54		0.357	0.382	7	NA	± 40 %	AverageRF
‡ 2,4,6-Trichlorophenol	50	54		0.329	0.354	8	NA	± 20 %	AverageRF
‡ 2,4-Dichlorophenol	50	56		0.274	0.305	11	NA	± 20 %	AverageRF
2,4-Dimethylphenol	50	54		0.324	0.350	8	NA	± 40 %	AverageRF
† 2,4-Dinitrophenol	100	83	0.05	0.173	0.143	-17	NA	± 40 %	AverageRF
2,4-Dinitrotoluene	50	54		0.369	0.398	8	NA	± 40 %	AverageRF
2,6-Dinitrotoluene	50	54		0.289	0.313	8	NA	± 40 %	AverageRF
2-Chloronaphthalene	50	52		1.13	1.18	4	NA	± 40 %	AverageRF
2-Chlorophenol	50	53		1.47	1.55	5	NA	± 40 %	AverageRF
2-Methyl-4,6-dinitrophenol	100	89		0.133	0.119	-11	NA	± 40 %	AverageRF
2-Methylnaphthalene	50	54		0.707	0.757	7	NA	± 40 %	AverageRF
2-Methylphenol	50	52		1.29	1.34	3	NA	± 40 %	AverageRF
2-Nitroaniline	50	51		0.347	0.356	3	NA	± 40 %	AverageRF
‡ 2-Nitrophenol	50	52		0.200	0.207	4	NA	± 20 %	AverageRF
3,3'-Dichlorobenzidine	100	110		0.294	0.349	NA	14	± 40 %	Quadratic
3-Nitroaniline	50	53		0.238	0.269	NA	5	± 40 %	Quadratic
4-Bromophenyl Phenyl Ether	50	47		0.210	0.196	-7	NA	± 40 %	AverageRF
4-Chloro-3-methylphenol	50	55		0.280	0.310	10	NA	± 40 %	AverageRF
4-Chloroaniline	50	55		0.366	0.403	10	NA	± 40 %	AverageRF
4-Chlorophenyl Phenyl Ether	50	54		0.555	0.603	9	NA	± 40 %	AverageRF
4-Methylphenol	50	53		1.64	1.74	6	NA	± 40 %	AverageRF
4-Nitroaniline	50	55		0.210	0.258	NA	9	± 40 %	Quadratic
† 4-Nitrophenol	100	100	0.05	0.142	0.145	2	NA	± 40 %	AverageRF
‡ Acenaphthene	50	54		1.21	1.29	7	NA	± 20 %	AverageRF
Acenaphthylene	50	53		1.83	1.93	5	NA	± 40 %	AverageRF
Aniline	50	50		2.01	2.00	-1	NA	± 40 %	AverageRF
Anthracene	50	53		1.10	1.16	6	NA	± 40 %	AverageRF
Benz(a)anthracene	50	53		1.16	1.23	6	NA	± 40 %	AverageRF
‡ Benzo(a)pyrene	50	56		1.14	1.28	12	NA	± 20 %	AverageRF
Benzo(b)fluoranthene	50	54		1.45	1.56	7	NA	± 40 %	AverageRF
Benzo(g,h,i)perylene	50	57		0.762	0.870	14	NA	± 40 %	AverageRF
Benzo(k)fluoranthene	50	53		1.41	1.49	6	NA	± 40 %	AverageRF
Benzoic acid	250	260		0.213	0.221	4	NA	± 40 %	AverageRF
Benzyl alcohol	50	52		0.940	0.986	5	NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/18/2007

Continuing Calibration Verification Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 12/26/2006
ICAL ID: CAL1241
Analysis Lot: DWG0700130
Units: mg/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D		%Drift	Criteria	Curve Fit
bis(2-Chloroethoxy)methane	50	52		0.400	0.418	4		NA	± 40 %	AverageRF
Bis(2-chloroethyl) Ether	50	52		1.43	1.48	3		NA	± 40 %	AverageRF
Bis(2-Chloroisopropyl)ether	50	46		2.73	2.52	-8		NA	± 40 %	AverageRF
Bis(2-ethylhexyl) Phthalate	50	68		1.01	1.38	36		NA	± 40 %	AverageRF
Butyl Benzyl Phthalate	50	60		0.778	0.927	19		NA	± 40 %	AverageRF
Chrysene	50	53		1.09	1.15	6		NA	± 40 %	AverageRF
Di-n-butyl Phthalate	50	58		1.23	1.41	15		NA	± 40 %	AverageRF
‡ Di-n-octyl Phthalate	50	68		2.58	3.52	36	*	NA	± 20 %	AverageRF
Dibenz(a,h)anthracene	50	60		0.795	0.949	19		NA	± 40 %	AverageRF
Dibenzofuran	50	54		1.58	1.70	8		NA	± 40 %	AverageRF
Diethyl Phthalate	50	54		1.25	1.34	8		NA	± 40 %	AverageRF
Dimethyl Phthalate	50	53		1.24	1.32	7		NA	± 40 %	AverageRF
‡ Fluoranthene	50	58		0.954	1.10	15		NA	± 20 %	AverageRF
Fluorene	50	54		1.29	1.39	8		NA	± 40 %	AverageRF
Hexachlorobenzene	50	45		0.221	0.200	-10		NA	± 40 %	AverageRF
‡ Hexachlorobutadiene	50	49		0.155	0.153	-2		NA	± 20 %	AverageRF
† Hexachlorocyclopentadiene	50	36	0.05	0.318	0.229	-28		NA	± 40 %	AverageRF
Hexachloroethane	50	52		0.606	0.634	5		NA	± 40 %	AverageRF
Indeno(1,2,3-cd)pyrene	50	59		0.924	1.09	18		NA	± 40 %	AverageRF
Isophorone	50	54		0.637	0.693	9		NA	± 40 %	AverageRF
† N-Nitrosodi-n-propylamine	50	53	0.05	0.967	1.03	6		NA	± 40 %	AverageRF
N-Nitrosodimethylamine	50	50		0.762	0.766	1		NA	± 40 %	AverageRF
‡ N-Nitrosodiphenylamine	50	49		0.571	0.563	-1		NA	± 40 %	AverageRF
Naphthalene	50	53		1.05	1.11	6		NA	± 40 %	AverageRF
Nitrobenzene	50	54		0.355	0.384	8		NA	± 40 %	AverageRF
‡ Pentachlorophenol	100	83		0.147	0.121	-17		NA	± 20 %	AverageRF
Phenanthrene	50	52		1.12	1.17	4		NA	± 40 %	AverageRF
‡ Phenol	50	53		1.74	1.86	7		NA	± 20 %	AverageRF
Pyrene	50	53		1.73	1.84	6		NA	± 40 %	AverageRF
Pyridine	50	52		1.52	1.57	4		NA	± 40 %	AverageRF
2,4,6-Tribromophenol	50	47		0.0959	0.0908	-5		NA	± 40 %	AverageRF
2-Fluorobiphenyl	50	53		1.26	1.34	6		NA	± 40 %	AverageRF
2-Fluorophenol	50	52		1.27	1.33	4		NA	± 40 %	AverageRF
Nitrobenzene-d5	50	54		0.338	0.362	7		NA	± 40 %	AverageRF
Phenol-d5	50	52		1.65	1.73	5		NA	± 40 %	AverageRF
Terphenyl-d14	50	50		1.12	1.11	-1		NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/19/2007

Continuing Calibration Verification Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 12/26/2006
ICAL ID: CAL1241
Analysis Lot: DWG0700131
Units: mg/L

File ID: C:\MSDCHEM\1\DATA\E070119\E070071.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	50	52		0.296	0.308	4	NA	± 40 %	AverageRF
1,2-Dichlorobenzene	50	53		1.54	1.63	6	NA	± 40 %	AverageRF
1,3-Dichlorobenzene	50	53		1.61	1.71	6	NA	± 40 %	AverageRF
‡ 1,4-Dichlorobenzene	50	53		1.65	1.73	5	NA	± 20 %	AverageRF
1,4-Dioxane	50	51		0.586	0.598	2	NA	± 40 %	AverageRF
2,4,5-Trichlorophenol	50	53		0.357	0.377	6	NA	± 40 %	AverageRF
‡ 2,4,6-Trichlorophenol	50	54		0.329	0.354	8	NA	± 20 %	AverageRF
‡ 2,4-Dichlorophenol	50	55		0.274	0.304	11	NA	± 20 %	AverageRF
2,4-Dimethylphenol	50	53		0.324	0.347	7	NA	± 40 %	AverageRF
† 2,4-Dinitrophenol	100	93	0.05	0.173	0.160	-7	NA	± 40 %	AverageRF
2,4-Dinitrotoluene	50	55		0.369	0.408	11	NA	± 40 %	AverageRF
2,6-Dinitrotoluene	50	54		0.289	0.313	8	NA	± 40 %	AverageRF
2-Chloronaphthalene	50	52		1.13	1.16	3	NA	± 40 %	AverageRF
2-Chlorophenol	50	53		1.47	1.57	6	NA	± 40 %	AverageRF
2-Methyl-4,6-dinitrophenol	100	98		0.133	0.130	-2	NA	± 40 %	AverageRF
2-Methylnaphthalene	50	54		0.707	0.757	7	NA	± 40 %	AverageRF
2-Methylphenol	50	52		1.29	1.35	4	NA	± 40 %	AverageRF
2-Nitroaniline	50	51		0.347	0.350	1	NA	± 40 %	AverageRF
‡ 2-Nitrophenol	50	53		0.200	0.211	5	NA	± 20 %	AverageRF
3,3'-Dichlorobenzidine	100	84		0.294	0.240	NA	-16	± 40 %	Quadratic
3-Nitroaniline	50	49		0.238	0.247	NA	-2	± 40 %	Quadratic
4-Bromophenyl Phenyl Ether	50	46		0.210	0.194	-8	NA	± 40 %	AverageRF
4-Chloro-3-methylphenol	50	56		0.280	0.316	13	NA	± 40 %	AverageRF
4-Chloroaniline	50	51		0.366	0.373	2	NA	± 40 %	AverageRF
4-Chlorophenyl Phenyl Ether	50	54		0.555	0.602	8	NA	± 40 %	AverageRF
4-Methylphenol	50	54		1.64	1.75	7	NA	± 40 %	AverageRF
4-Nitroaniline	50	53		0.210	0.248	NA	6	± 40 %	Quadratic
† 4-Nitrophenol	100	100	0.05	0.142	0.143	1	NA	± 40 %	AverageRF
‡ Acenaphthene	50	50		1.21	1.20	-1	NA	± 20 %	AverageRF
Acenaphthylene	50	53		1.83	1.94	6	NA	± 40 %	AverageRF
Aniline	50	46		2.01	1.86	-7	NA	± 40 %	AverageRF
Anthracene	50	53		1.10	1.17	7	NA	± 40 %	AverageRF
Benz(a)anthracene	50	52		1.16	1.21	5	NA	± 40 %	AverageRF
‡ Benzo(a)pyrene	50	57		1.14	1.30	13	NA	± 20 %	AverageRF
Benzo(b)fluoranthene	50	54		1.45	1.58	9	NA	± 40 %	AverageRF
Benzo(g,h,i)perylene	50	50		0.762	0.763	0	NA	± 40 %	AverageRF
Benzo(k)fluoranthene	50	58		1.41	1.62	16	NA	± 40 %	AverageRF
Benzoic acid	250	270		0.213	0.229	7	NA	± 40 %	AverageRF
Benzyl alcohol	50	52		0.940	0.971	3	NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
Date Analyzed: 01/19/2007

Continuing Calibration Verification Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 12/26/2006
ICAL ID: CAL1241
Analysis Lot: DWG0700131
Units: mg/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D		%Drift	Criteria	Curve Fit
bis(2-Chloroethoxy)methane	50	52		0.400	0.418	5		NA	± 40 %	AverageRF
Bis(2-chloroethyl) Ether	50	52		1.43	1.48	4		NA	± 40 %	AverageRF
Bis(2-Chloroisopropyl)ether	50	46		2.73	2.50	-8		NA	± 40 %	AverageRF
Bis(2-ethylhexyl) Phthalate	50	70		1.01	1.41	40		NA	± 40 %	AverageRF
Butyl Benzyl Phthalate	50	63		0.778	0.977	26		NA	± 40 %	AverageRF
Chrysene	50	52		1.09	1.14	4		NA	± 40 %	AverageRF
Di-n-butyl Phthalate	50	58		1.23	1.43	17		NA	± 40 %	AverageRF
‡ Di-n-octyl Phthalate	50	79		2.58	4.06	58	*	NA	± 20 %	AverageRF
Dibenz(a,h)anthracene	50	55		0.795	0.873	10		NA	± 40 %	AverageRF
Dibenzofuran	50	54		1.58	1.70	7		NA	± 40 %	AverageRF
Diethyl Phthalate	50	54		1.25	1.35	9		NA	± 40 %	AverageRF
Dimethyl Phthalate	50	54		1.24	1.33	7		NA	± 40 %	AverageRF
‡ Fluoranthene	50	57		0.954	1.09	14		NA	± 20 %	AverageRF
Fluorene	50	54		1.29	1.40	9		NA	± 40 %	AverageRF
Hexachlorobenzene	50	45		0.221	0.198	-11		NA	± 40 %	AverageRF
‡ Hexachlorobutadiene	50	48		0.155	0.149	-4		NA	± 20 %	AverageRF
† Hexachlorocyclopentadiene	50	40	0.05	0.318	0.256	-19		NA	± 40 %	AverageRF
Hexachloroethane	50	53		0.606	0.641	6		NA	± 40 %	AverageRF
Indeno(1,2,3-cd)pyrene	50	54		0.924	0.999	8		NA	± 40 %	AverageRF
Isophorone	50	54		0.637	0.689	8		NA	± 40 %	AverageRF
† N-Nitrosodi-n-propylamine	50	54	0.05	0.967	1.04	8		NA	± 40 %	AverageRF
N-Nitrosodimethylamine	50	49		0.762	0.750	-1		NA	± 40 %	AverageRF
‡ N-Nitrosodiphenylamine	50	46		0.571	0.530	-7		NA	± 40 %	AverageRF
Naphthalene	50	52		1.05	1.10	5		NA	± 40 %	AverageRF
Nitrobenzene	50	53		0.355	0.377	6		NA	± 40 %	AverageRF
‡ Pentachlorophenol	100	87		0.147	0.127	-13		NA	± 20 %	AverageRF
Phenanthrene	50	52		1.12	1.16	4		NA	± 40 %	AverageRF
‡ Phenol	50	53		1.74	1.85	7		NA	± 20 %	AverageRF
Pyrene	50	57		1.73	1.96	14		NA	± 40 %	AverageRF
Pyridine	50	51		1.52	1.56	3		NA	± 40 %	AverageRF
2,4,6-Tribromophenol	50	49		0.0959	0.0934	-3		NA	± 40 %	AverageRF
2-Fluorobiphenyl	50	53		1.26	1.33	6		NA	± 40 %	AverageRF
2-Fluorophenol	50	52		1.27	1.32	4		NA	± 40 %	AverageRF
Nitrobenzene-d5	50	53		0.338	0.359	6		NA	± 40 %	AverageRF
Phenol-d5	50	53		1.65	1.75	6		NA	± 40 %	AverageRF
Terphenyl-d14	50	52		1.12	1.16	4		NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056

Analysis Run Log
Semivolatile Organic Compounds by EPA Method 8270C

Analysis Method: 8270C

Analysis Lot: DWG0700130
Instrument ID: MSE

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\E070047.D	GC/MS Tuning - Decafluorotriphenyl	DWG0700130-1	1/18/2007	12:01		1/18/2007	12:10
\E070051.D	Continuing Calibration Verification	DWG0700130-2	1/18/2007	14:13		1/18/2007	14:38
\E070052.D	Method Blank	DWG0700129-3	1/18/2007	14:45		1/18/2007	15:10
\E070053.D	Lab Control Sample	DWG0700129-1	1/18/2007	15:17		1/18/2007	15:42
\E070054.D	Duplicate Lab Control Sample	DWG0700129-2	1/18/2007	15:50		1/18/2007	16:15
\E070055.D	BLD120-MW-1	D0700056-001	1/18/2007	16:22		1/18/2007	16:47
\E070056.D	BLD120-MW-6	D0700056-002	1/18/2007	16:54		1/18/2007	17:19
\E070057.D	BLD120-MW-2	D0700056-004	1/18/2007	17:27		1/18/2007	17:52
\E070058.D	BLD120-MW-3	D0700056-005	1/18/2007	17:59		1/18/2007	18:24
\E070059.D	BLD120-MW-4	D0700056-006	1/18/2007	18:31		1/18/2007	18:56
\E070060.D	BLD120-MW-5	D0700056-007	1/18/2007	19:04		1/18/2007	19:29
\E070061.D	ZZZZZZ	ZZZZZZ	1/18/2007	19:36		1/18/2007	20:01
\E070062.D	MWCL-1	D0700056-009	1/18/2007	20:08		1/18/2007	20:33
\E070063.D	MWCL-2	D0700056-010	1/18/2007	20:40		1/18/2007	21:05
\E070064.D	MWCL-3	D0700056-011	1/18/2007	21:13		1/18/2007	21:38
\E070065.D	MWCL-4	D0700056-012	1/18/2007	21:45		1/18/2007	22:10
\E070066.D	MWCL-6	D0700056-013	1/18/2007	22:17		1/18/2007	22:42
\E070067.D	MWCL-7	D0700056-014	1/18/2007	22:50		1/18/2007	23:15
\E070068.D	MWCL-5	D0700056-015	1/18/2007	23:22		1/18/2007	23:47
\E070069.D	MWCL-8	D0700056-016	1/18/2007	23:54		1/19/2007	00:19

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056

Analysis Run Log
Semivolatile Organic Compounds by EPA Method 8270C

Analysis Method: 8270C

Analysis Lot: DWG0700131
Instrument ID: MSE

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\E070070.D	GC/MS Tuning - Decafluorotriphenyl	DWG0700131-1	1/19/2007	11:28		1/19/2007	11:37
\E070071.D	Continuing Calibration Verification	DWG0700131-2	1/19/2007	11:45		1/19/2007	12:10
\E070072.D	BLD120-MW-1	D0700056-001	1/19/2007	12:57		1/19/2007	13:22
\E070073.D	BLD102-MW-4	D0700056-008	1/19/2007	13:29		1/19/2007	13:54

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0700056
Date Extracted: 01/15/2007

Extraction Prep Log
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Extraction Lot: DWG0700129
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BLD120-MW-1DL	D0700056-001	01/09/07	01/13/07	1050ml	1.0ml	NA	
BLD120-MW-1	D0700056-001	01/09/07	01/13/07	1050ml	1.0ml	NA	
BLD120-MW-6	D0700056-002	01/09/07	01/13/07	1050ml	1.0ml	NA	
BLD120-MW-2	D0700056-004	01/09/07	01/13/07	1050ml	1.0ml	NA	
BLD120-MW-3	D0700056-005	01/09/07	01/13/07	1050ml	1.0ml	NA	
BLD120-MW-4	D0700056-006	01/10/07	01/13/07	1050ml	1.0ml	NA	
BLD120-MW-5	D0700056-007	01/10/07	01/13/07	1050ml	1.0ml	NA	
BLD102-MW-4	D0700056-008	01/10/07	01/13/07	1050ml	1.0ml	NA	
MWCL-1	D0700056-009	01/10/07	01/13/07	1050ml	1.0ml	NA	
MWCL-2	D0700056-010	01/11/07	01/13/07	1050ml	1.0ml	NA	
MWCL-3	D0700056-011	01/11/07	01/13/07	1050ml	1.0ml	NA	
MWCL-4	D0700056-012	01/11/07	01/13/07	1050ml	1.0ml	NA	
MWCL-6	D0700056-013	01/11/07	01/13/07	1000ml	1.0ml	NA	
MWCL-7	D0700056-014	01/12/07	01/13/07	1050ml	1.0ml	NA	
MWCL-5	D0700056-015	01/12/07	01/13/07	1050ml	1.0ml	NA	
MWCL-8	D0700056-016	01/12/07	01/13/07	1050ml	1.0ml	NA	
Method Blank	DWG0700129-3	NA	NA	1000ml	1.0ml	NA	
Lab Control Sample	DWG0700129-1	NA	NA	1000ml	1.0ml	NA	
Duplicate Lab Control Sample	DWG0700129-2	NA	NA	1000ml	1.0ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Initial Calibration Data

Initial Calibration - Summary Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
1,4-Dioxane	MS	AverageRF		0.586	15	2.1			OK	
N-Nitrosodimethylamine	TRG	AverageRF		0.762	15	1.8			OK	
Pyridine	TRG	AverageRF		1.520	15	1.0			OK	
PGMEA	TRG	AverageRF		2.753	15	2.3			OK	
2-Fluorophenol	SURR	AverageRF		1.274	15	1.8			NA	
Phenol-d5	SURR	AverageRF		1.651	15	1.4			NA	
Phenol	MS	AverageRF		1.739	15	1.3			OK	
Aniline	TRG	AverageRF		2.014	15	6.2			OK	
Bis(2-chloroethyl) Ether	TRG	AverageRF		1.431	15	1.4			OK	
2-Chlorophenol	MS	AverageRF		1.474	15	1.5			OK	
1,3-Dichlorobenzene	TRG	AverageRF		1.613	15	1.4			OK	
1,4-Dichlorobenzene	MS	AverageRF		1.647	15	1.8			OK	
Benzyl alcohol	TRG	AverageRF		0.940	15	3.4			OK	
1,2-Dichlorobenzene	TRG	AverageRF		1.537	15	0.9			OK	
1-Methyl-2-pyrrolidinone	TRG	AverageRF		0.935	15	4.6			OK	
2-Methylphenol	TRG	AverageRF		1.293	15	1.7			OK	
Bis(2-Chloroisopropyl)ether	TRG	AverageRF		2.729	15	3.1			OK	
4-Methylphenol	TRG	AverageRF		1.638	15	3.1			OK	
N-Nitrosodi-n-propylamine	MS	AverageRF	0.050	0.967	15	3.1			OK	
Hexachloroethane	TRG	AverageRF		0.606	15	1.5			OK	
Nitrobenzene-d5	SURR	AverageRF		0.338	15	2.8			NA	
Nitrobenzene	TRG	AverageRF		0.355	15	1.1			OK	
Isophorone	TRG	AverageRF		0.637	15	3.6			OK	
2-Nitrophenol	TRG	AverageRF		0.200	15	12.4			OK	
2,4-Dimethylphenol	TRG	AverageRF		0.324	15	1.7			OK	
Benzoic acid	TRG	AverageRF		0.213	15	13.2			OK	
bis(2-Chloroethoxy)methane	TRG	AverageRF		0.400	15	1.2			OK	
2,4-Dichlorophenol	TRG	AverageRF		0.274	15	2.5			OK	
1,2,4-Trichlorobenzene	MS	AverageRF		0.296	15	1.1			OK	
Naphthalene	TRG	AverageRF		1.048	15	1.4			OK	
4-Chloroaniline	TRG	AverageRF		0.366	15	11.6			OK	
Hexachlorobutadiene	TRG	AverageRF		0.155	15	1.0			OK	
4-Chloro-3-methylphenol	MS	AverageRF		0.280	15	6.2			OK	
2-Methylnaphthalene	TRG	AverageRF		0.707	15	1.2			OK	
Hexachlorocyclopentadiene	TRG	AverageRF	0.050	0.318	15	3.7			OK	
2,4,6-Trichlorophenol	TRG	AverageRF		0.329	15	5.0			OK	
2,4,5-Trichlorophenol	TRG	AverageRF		0.357	15	4.7			OK	
2-Fluorobiphenyl	SURR	AverageRF		1.261	15	0.5			NA	
2-Chloronaphthalene	TRG	AverageRF		1.127	15	0.9			OK	
2-Nitroaniline	TRG	AverageRF		0.347	15	8.6			OK	
Dimethyl Phthalate	TRG	AverageRF		1.237	15	2.2			OK	
Acenaphthylene	TRG	AverageRF		1.833	15	2.1			OK	
2,6-Dinitrotoluene	TRG	AverageRF		0.289	15	6.7			OK	
3-Nitroaniline	TRG	Quadratic		0.238			0.99	0.9929	OK	2.79 *
Acenaphthene	MS	AverageRF		1.208	15	4.4			OK	
2,4-Dinitrophenol	TRG	AverageRF	0.050	0.173	15	12.5			OK	
4-Nitrophenol	MS	AverageRF	0.050	0.142	15	12.3			OK	
Dibenzofuran	TRG	AverageRF		1.579	15	0.5			OK	
2,4-Dinitrotoluene	MS	AverageRF		0.369	15	6.9			OK	
Fluorene	TRG	AverageRF		1.285	15	1.6			OK	
Diethyl Phthalate	TRG	AverageRF		1.246	15	2.1			OK	
4-Chlorophenyl Phenyl Ether	TRG	AverageRF		0.555	15	1.6			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
4-Nitroaniline	TRG	Quadratic		0.210			0.99	0.9956	OK	3.15 *
2-Methyl-4,6-dinitrophenol	TRG	AverageRF		0.133	15	11.2			OK	
N-Nitrosodiphenylamine	TRG	AverageRF		0.571	15	5.8			OK	
Azobenzene	TRG	AverageRF		0.818	15	1.5			OK	
2,4,6-Tribromophenol	SURR	AverageRF		0.096	15	8.2			NA	
4-Bromophenyl Phenyl Ether	TRG	AverageRF		0.210	15	1.8			OK	
Hexachlorobenzene	TRG	AverageRF		0.221	15	1.3			OK	
Pentachlorophenol	MS	AverageRF		0.147	15	10.1			OK	
Phenanthrene	TRG	AverageRF		1.120	15	0.8			OK	
Anthracene	TRG	AverageRF		1.095	15	2.1			OK	
Carbazole	TRG	Quadratic		0.702			0.99	0.9974	OK	-23.20 *
Di-n-butyl Phthalate	TRG	AverageRF		1.226	15	6.3			OK	
Fluoranthene	TRG	AverageRF		0.954	15	4.0			OK	
Benzidine	TRG	AverageRF		0.506	15	13.3			OK	
Pyrene	MS	AverageRF		1.729	15	4.6			OK	
Terphenyl-d14	SURR	AverageRF		1.118	15	5.2			NA	
Butyl Benzyl Phthalate	TRG	AverageRF		0.778	15	6.5			OK	
3,3'-Dichlorobenzidine	TRG	Quadratic		0.294			0.99	0.9949	OK	2.94
Benz(a)anthracene	TRG	AverageRF		1.162	15	2.2			OK	
Chrysene	TRG	AverageRF		1.091	15	1.1			OK	
Bis(2-ethylhexyl) Phthalate	TRG	AverageRF		1.010	15	10.0			OK	
Mirex	TRG	AverageRF		0.217	15	11.3			OK	
Di-n-octyl Phthalate	TRG	AverageRF		2.579	15	21.3*			OK	
Benzo(b)fluoranthene	TRG	AverageRF		1.451	15	6.4			OK	
Benzo(k)fluoranthene	TRG	AverageRF		1.406	15	5.5			OK	
Benzo(a)pyrene	TRG	AverageRF		1.143	15	6.1			OK	
Indeno(1,2,3-cd)pyrene	TRG	AverageRF		0.924	15	10.4			OK	
Dibenz(a,h)anthracene	TRG	AverageRF		0.795	15	9.7			OK	
Benzo(g,h,i)perylene	TRG	AverageRF		0.762	15	10.0			OK	

Method Specified Maximum Average %RSD = 15.0 **Calculated Average %RSD =** 5.5

Initial Calibration - Summary Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS

SPCC and CCC Evaluations

Parameter Name	Type	SPCC Criteria	SPCC Result	CCC Criteria	CCC Result
Phenol	CCC			30	1.3
1,4-Dichlorobenzene	CCC			30	1.8
N-Nitrosodi-n-propylamine	SPCC	0.050	0.967		
2-Nitrophenol	CCC			30	12.4
2,4-Dichlorophenol	CCC			30	2.5
Hexachlorobutadiene	CCC			30	1.0
Hexachlorocyclopentadiene	SPCC	0.050	0.318		
2,4,6-Trichlorophenol	CCC			30	5.0
Acenaphthene	CCC			30	4.4
2,4-Dinitrophenol	SPCC	0.050	0.173		
4-Nitrophenol	SPCC	0.050	0.142		
N-Nitrosodiphenylamine	CCC			30	5.8
Pentachlorophenol	CCC			30	10.1
Fluoranthene	CCC			30	4.0
Di-n-octyl Phthalate	CCC			30	21.3
Benzo(a)pyrene	CCC			30	6.1

Initial Calibration - Detailed Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
15398	C:\MSDCHEM\1\DATA\E061226\E061879.D	12/26/2006 14:51	12/27/2006 09:07	12/27/2006 13:48
15399	C:\MSDCHEM\1\DATA\E061226\E061880.D	12/26/2006 15:23	12/27/2006 09:05	12/27/2006 13:48
15400	C:\MSDCHEM\1\DATA\E061226\E061881.D	12/26/2006 15:56	12/27/2006 08:56	12/27/2006 13:48
15401	C:\MSDCHEM\1\DATA\E061226\E061882.D	12/26/2006 16:28	12/27/2006 08:58	12/27/2006 13:48
15402	C:\MSDCHEM\1\DATA\E061226\E061883.D	12/26/2006 17:01	12/27/2006 09:00	12/27/2006 13:48
15403	C:\MSDCHEM\1\DATA\E061226\E061884.D	12/26/2006 17:33	12/27/2006 09:02	12/27/2006 13:48
15404	C:\MSDCHEM\1\DATA\E061226\E061885.D	12/26/2006 18:05	12/27/2006 09:03	12/27/2006 13:48

	FileID							Mean	
Parameter Name	**15398**	**15399**	**15400**	**15401**	**15402**	**15403**	**15404**	**RF**	**%RSD**
1,4-Dioxane	0.587	0.604	0.593	0.587	0.588	0.570	0.570	0.586	2.1
N-Nitrosodimethylamine	0.779	0.777	0.753	0.770	0.756	0.746	0.750	0.762	1.8
Pyridine	1.542	1.518	1.508	1.536	1.528	1.507	1.504	1.520	1.0
PGMEA	2.821	2.796	2.814	2.782	2.700	2.673	2.687	2.753	2.3
2-Fluorophenol	1.228	1.261	1.273	1.293	1.290	1.287	1.283	1.274	1.8
Phenol-d5	1.622	1.624	1.638	1.675	1.661	1.662	1.672	1.651	1.4
Phenol	1.704	1.718	1.752	1.770	1.741	1.739	1.749	1.739	1.3
Aniline	1.772	1.909	2.072	2.067	2.086	2.091	2.097	2.014	6.2
Bis(2-chloroethyl) Ether	1.459	1.436	1.430	1.454	1.419	1.411	1.406	1.431	1.4
2-Chlorophenol	1.452	1.442	1.460	1.490	1.495	1.486	1.494	1.474	1.5
1,3-Dichlorobenzene	1.660	1.616	1.600	1.617	1.608	1.594	1.597	1.613	1.4
1,4-Dichlorobenzene	1.695	1.676	1.652	1.649	1.627	1.615	1.619	1.647	1.8
Benzyl alcohol	0.899	0.896	0.931	0.964	0.962	0.959	0.969	0.940	3.4
1,2-Dichlorobenzene	1.547	1.563	1.529	1.529	1.535	1.531	1.524	1.537	0.9
1-Methyl-2-pyrrolidinone	0.858	0.907	0.913	0.964	0.960	0.969	0.974	0.935	4.6
2-Methylphenol	1.278	1.254	1.286	1.318	1.301	1.300	1.315	1.293	1.7
Bis(2-Chloroisopropyl)ether	2.815	2.776	2.796	2.786	2.681	2.644	2.603	2.729	3.1
4-Methylphenol	1.563	1.578	1.619	1.676	1.661	1.681	1.686	1.638	3.1
N-Nitrosodi-n-propylamine	0.920	0.941	0.951	0.974	0.990	0.991	1.001	0.967	3.1
Hexachloroethane	0.589	0.598	0.612	0.611	0.607	0.610	0.615	0.606	1.5
Nitrobenzene-d5	0.320	0.329	0.340	0.343	0.346	0.346	0.342	0.338	2.8
Nitrobenzene	0.350	0.349	0.357	0.360	0.357	0.357	0.355	0.355	1.1
Isophorone	0.593	0.621	0.639	0.650	0.657	0.653	0.645	0.637	3.6
2-Nitrophenol	0.172	0.181	0.204	0.250	0.196	0.200	0.197	0.200	12.4
2,4-Dimethylphenol	0.315	0.324	0.319	0.329	0.329	0.327	0.326	0.324	1.7
Benzoic acid		0.165	0.194	0.224	0.229	0.234	0.232	0.213	13.2
bis(2-Chloroethoxy)methane	0.396	0.405	0.403	0.404	0.402	0.398	0.392	0.400	1.2
2,4-Dichlorophenol	0.261	0.269	0.279	0.278	0.281	0.276	0.277	0.274	2.5
1,2,4-Trichlorobenzene	0.293	0.300	0.300	0.296	0.295	0.293	0.292	0.296	1.1
Naphthalene	1.053	1.060	1.070	1.046	1.039	1.041	1.027	1.048	1.4
4-Chloroaniline	0.315	0.350	0.349	0.321	0.412	0.409	0.407	0.366	11.6
Hexachlorobutadiene	0.153	0.155	0.156	0.154	0.157	0.157	0.155	0.155	1.0
4-Chloro-3-methylphenol	0.246	0.270	0.280	0.288	0.294	0.293	0.292	0.280	6.2
2-Methylnaphthalene	0.694	0.703	0.711	0.718	0.710	0.713	0.702	0.707	1.2
Hexachlorocyclopentadiene	0.297	0.307	0.319	0.322	0.327	0.329	0.327	0.318	3.7
2,4,6-Trichlorophenol	0.299	0.320	0.323	0.335	0.338	0.344	0.346	0.329	5.0
2,4,5-Trichlorophenol	0.328	0.345	0.351	0.364	0.366	0.371	0.375	0.357	4.7
2-Fluorobiphenyl	1.258	1.267	1.272	1.255	1.253	1.263	1.260	1.261	0.5
2-Chloronaphthalene	1.122	1.146	1.131	1.127	1.125	1.129	1.113	1.127	0.9
2-Nitroaniline	0.300	0.314	0.342	0.356	0.362	0.376	0.375	0.347	8.6

Initial Calibration - Detailed Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	AverageRF

	FileID							Mean	
Parameter Name	**15398**	**15399**	**15400**	**15401**	**15402**	**15403**	**15404**	**RF**	**%RSD**
Dimethyl Phthalate	1.184	1.219	1.239	1.254	1.247	1.257	1.257	1.237	2.2
Acenaphthylene	1.755	1.812	1.855	1.861	1.835	1.867	1.847	1.833	2.1
2,6-Dinitrotoluene	0.255	0.270	0.290	0.298	0.301	0.305	0.306	0.289	6.7
3-Nitroaniline	0.235	0.249	0.191	0.156	0.261	0.286	0.288	0.238	20.6#
Acenaphthene	1.182	1.221	1.247	1.261	1.264	1.133	1.152	1.208	4.4
2,4-Dinitrophenol			0.138	0.169	0.176	0.189	0.191	0.173	12.5
4-Nitrophenol	0.114	0.124	0.136	0.155	0.148	0.158	0.157	0.142	12.3
Dibenzofuran	1.568	1.589	1.572	1.586	1.578	1.588	1.574	1.579	0.5
2,4-Dinitrotoluene	0.326	0.349	0.359	0.386	0.385	0.390	0.392	0.369	6.9
Fluorene	1.252	1.267	1.281	1.294	1.289	1.302	1.313	1.285	1.6
Diethyl Phthalate	1.197	1.227	1.244	1.254	1.269	1.260	1.269	1.246	2.1
4-Chlorophenyl Phenyl Ether	0.537	0.562	0.553	0.559	0.555	0.560	0.559	0.555	1.6
4-Nitroaniline	0.217	0.188	0.137	0.168	0.230	0.263	0.265	0.210	23.0#
2-Methyl-4,6-dinitrophenol		0.107	0.124	0.138	0.142	0.145	0.145	0.133	11.2
N-Nitrosodiphenylamine	0.580	0.598	0.584	0.502	0.564	0.574	0.597	0.571	5.8
Azobenzene	0.804	0.815	0.838	0.824	0.825	0.803	0.816	0.818	1.5
2,4,6-Tribromophenol	0.082	0.089	0.095	0.099	0.101	0.102	0.104	0.096	8.2
4-Bromophenyl Phenyl Ether	0.204	0.210	0.208	0.209	0.213	0.212	0.215	0.210	1.8
Hexachlorobenzene	0.221	0.222	0.224	0.217	0.223	0.218	0.224	0.221	1.3
Pentachlorophenol		0.121	0.137	0.149	0.155	0.157	0.161	0.147	10.1
Phenanthrene	1.131	1.122	1.125	1.127	1.111	1.106	1.115	1.120	0.8
Anthracene	1.051	1.078	1.103	1.115	1.107	1.099	1.114	1.095	2.1
Carbazole	0.894	0.864	0.668	0.395	0.531	0.713	0.852	0.702	26.7#
Di-n-butyl Phthalate	1.074	1.168	1.257	1.270	1.285	1.254	1.272	1.226	6.3
Fluoranthene	0.890	0.921	0.952	1.004	0.961	0.968	0.981	0.954	4.0
Benzidine	0.395	0.574	0.588	0.542	0.486	0.466	0.490	0.506	13.3
Pyrene	1.601	1.712	1.710	1.737	1.870	1.758	1.711	1.729	4.6
Terphenyl-d14	1.028	1.079	1.112	1.118	1.219	1.142	1.128	1.118	5.2
Butyl Benzyl Phthalate	0.738	0.708	0.760	0.792	0.867	0.796	0.785	0.778	6.5
3,3'-Dichlorobenzidine	0.309	0.273	0.270	0.223	0.276	0.349	0.358	0.294	16.2#
Benz(a)anthracene	1.148	1.121	1.142	1.174	1.180	1.184	1.185	1.162	2.2
Chrysene	1.116	1.087	1.090	1.094	1.077	1.083	1.087	1.091	1.1
Bis(2-ethylhexyl) Phthalate	0.850	0.913	1.001	1.037	1.154	1.052	1.061	1.010	10.0
Mirex	0.173	0.200	0.220	0.220	0.249	0.230	0.228	0.217	11.3
Di-n-octyl Phthalate	1.872	1.963	2.345	2.833	3.408	2.911	2.722	2.579	21.3*
Benzo(b)fluoranthene	1.579	1.341	1.322	1.439	1.521	1.486	1.466	1.451	6.4
Benzo(k)fluoranthene	1.574	1.350	1.357	1.391	1.418	1.385	1.369	1.406	5.5
Benzo(a)pyrene	1.206	1.028	1.068	1.140	1.169	1.188	1.199	1.143	6.1
Indeno(1,2,3-cd)pyrene	0.926	0.819	0.865	0.869	0.884	1.009	1.095	0.924	10.4
Dibenz(a,h)anthracene	0.763	0.726	0.754	0.754	0.765	0.865	0.941	0.795	9.7
Benzo(g,h,i)perylene	0.728	0.700	0.729	0.717	0.725	0.827	0.907	0.762	10.0

 # RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

Alternate Calibration Evaluation Summary

Maximum Allowable Average %RSD =	15.0
Calculated Average %RSD =	5.5

1 compound out of 81 failed Maximum %RSD criteria

Initial Calibration - Detailed Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	Quadratic

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
15398	C:\MSDCHEM\1\DATA\E061226\E061879.D	12/26/2006 14:51	12/27/2006 09:07	12/27/2006 13:48
15399	C:\MSDCHEM\1\DATA\E061226\E061880.D	12/26/2006 15:23	12/27/2006 09:05	12/27/2006 13:48
15400	C:\MSDCHEM\1\DATA\E061226\E061881.D	12/26/2006 15:56	12/27/2006 08:56	12/27/2006 13:48
15401	C:\MSDCHEM\1\DATA\E061226\E061882.D	12/26/2006 16:28	12/27/2006 08:58	12/27/2006 13:48
15402	C:\MSDCHEM\1\DATA\E061226\E061883.D	12/26/2006 17:01	12/27/2006 09:00	12/27/2006 13:48
15403	C:\MSDCHEM\1\DATA\E061226\E061884.D	12/26/2006 17:33	12/27/2006 09:02	12/27/2006 13:48
15404	C:\MSDCHEM\1\DATA\E061226\E061885.D	12/26/2006 18:05	12/27/2006 09:03	12/27/2006 13:48

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
3-Nitroaniline	0.028	0.226	-0.010	0.9929	0.238
4-Nitroaniline	0.026	0.210	-0.011	0.9956	0.210
Carbazole	0.253	0.203	0.055	0.9974	0.702
3,3'-Dichlorobenzidine	0.027	0.228	-0.001	0.9949	0.294

Second Source Calibration Verification Summary

CalibrationID: CAL1241 **Units:** ug/L

Method ID: MJ360 **Column:** MS

DataFile Location: C:\MSDCHEM\1\DATA\E061226\E061886.D

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
1,4-Dioxane	15405	AverageRF	30	0.586	0.558	-4.8	50.00	47.6	
N-Nitrosodimethylamine	15405	AverageRF	30	0.762	0.780	2.4	50.00	51.2	
Pyridine	15405	AverageRF	30	1.520	1.474	-3.0	50.00	48.5	
PGMEA	15405	AverageRF	30	2.753	2.666	-3.2	50.00	48.4	
Phenol	15405	AverageRF	30	1.739	1.735	-0.2	50.00	49.9	
Aniline	15405	AverageRF	30	2.014	2.030	0.8	50.00	50.4	
Bis(2-chloroethyl) Ether	15405	AverageRF	30	1.431	1.417	-1.0	50.00	49.5	
2-Chlorophenol	15405	AverageRF	30	1.474	1.459	-1.0	50.00	49.5	
1,3-Dichlorobenzene	15405	AverageRF	30	1.613	1.608	-0.3	50.00	49.8	
1,4-Dichlorobenzene	15405	AverageRF	30	1.647	1.640	-0.4	50.00	49.8	
Benzyl alcohol	15405	AverageRF	30	0.940	0.944	0.5	50.00	50.2	
1,2-Dichlorobenzene	15405	AverageRF	30	1.537	1.545	0.6	50.00	50.3	
1-Methyl-2-pyrrolidinone	15405	AverageRF	30	0.935	0.950	1.6	50.00	50.8	
2-Methylphenol	15405	AverageRF	30	1.293	1.316	1.8	50.00	50.9	
Bis(2-Chloroisopropyl)ether	15405	AverageRF	30	2.729	2.281	-16.4	50.00	41.8	
4-Methylphenol	15405	AverageRF	30	1.638	1.691	3.2	50.00	51.6	
N-Nitrosodi-n-propylamine	15405	AverageRF	30	0.967	1.001	3.5	50.00	51.8	
Hexachloroethane	15405	AverageRF	30	0.606	0.608	0.3	50.00	50.1	
Nitrobenzene	15405	AverageRF	30	0.355	0.359	1.1	50.00	50.6	
Isophorone	15405	AverageRF	30	0.637	0.678	6.4	50.00	53.2	
2-Nitrophenol	15405	AverageRF	30	0.200	0.185	-7.7	50.00	46.1	
2,4-Dimethylphenol	15405	AverageRF	30	0.324	0.318	-1.9	50.00	49.0	
Benzoic acid	15405	AverageRF	30	0.213	0.210	-1.3	50.00	49.4	
bis(2-Chloroethoxy)methane	15405	AverageRF	30	0.400	0.368	-7.9	50.00	46.0	
2,4-Dichlorophenol	15405	AverageRF	30	0.274	0.279	1.8	50.00	50.9	
1,2,4-Trichlorobenzene	15405	AverageRF	30	0.296	0.292	-1.3	50.00	49.3	
Naphthalene	15405	AverageRF	30	1.048	1.043	-0.4	50.00	49.8	
4-Chloroaniline	15405	AverageRF	30	0.366	0.413	12.6	50.00	56.3	
Hexachlorobutadiene	15405	AverageRF	30	0.155	0.158	1.7	50.00	50.9	
4-Chloro-3-methylphenol	15405	AverageRF	30	0.280	0.288	2.8	50.00	51.4	
2-Methylnaphthalene	15405	AverageRF	30	0.707	0.703	-0.6	50.00	49.7	
Hexachlorocyclopentadiene	15405	AverageRF	30	0.318	0.270	-15.0	50.00	42.5	
2,4,6-Trichlorophenol	15405	AverageRF	30	0.329	0.336	1.9	50.00	50.9	
2,4,5-Trichlorophenol	15405	AverageRF	30	0.357	0.368	3.2	50.00	51.6	
2-Chloronaphthalene	15405	AverageRF	30	1.127	1.123	-0.4	50.00	49.8	
2-Nitroaniline	15405	AverageRF	30	0.347	0.369	6.6	50.00	53.3	
Dimethyl Phthalate	15405	AverageRF	30	1.237	1.260	1.9	50.00	50.9	
Acenaphthylene	15405	AverageRF	30	1.833	1.707	-6.9	50.00	46.6	
2,6-Dinitrotoluene	15405	AverageRF	30	0.289	0.313	8.4	50.00	54.2	
3-Nitroaniline	15405	Quadratic	30				50.00	56.1	12.3
Acenaphthene	15405	AverageRF	30	1.208	1.290	6.7	50.00	53.4	
2,4-Dinitrophenol	15405	AverageRF	30	0.173	0.189	9.7	100.00	109.7	
4-Nitrophenol	15405	AverageRF	30	0.142	0.157	11.1	100.00	111.1	
Dibenzofuran	15405	AverageRF	30	1.579	1.561	-1.2	50.00	49.4	
2,4-Dinitrotoluene	15405	AverageRF	30	0.369	0.387	4.7	50.00	52.3	
Fluorene	15405	AverageRF	30	1.285	1.296	0.8	50.00	50.4	
Diethyl Phthalate	15405	AverageRF	30	1.246	1.272	2.1	50.00	51.0	

Second Source Calibration Verification Summary

CalibrationID: CAL1241 **Units:** ug/L

Method ID: MJ360 **Column:** MS

DataFile Location: C:\MSDCHEM\1\DATA\E061226\E061886.D

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
4-Chlorophenyl Phenyl Ether	15405	AverageRF	30	0.555	0.562	1.2	50.00	50.6	
4-Nitroaniline	15405	Quadratic	30				50.00	57.1	14.1
2-Methyl-4,6-dinitrophenol	15405	AverageRF	30	0.133	0.153	14.9	100.00	114.9	
N-Nitrosodiphenylamine	15405	AverageRF	30	0.571	0.519	-9.2	50.00	45.4	
Azobenzene	15405	AverageRF	30	0.818	0.813	-0.6	50.00	49.7	
4-Bromophenyl Phenyl Ether	15405	AverageRF	30	0.210	0.212	1.0	50.00	50.5	
Hexachlorobenzene	15405	AverageRF	30	0.221	0.219	-0.9	50.00	49.5	
Pentachlorophenol	15405	AverageRF	30	0.147	0.157	6.9	100.00	106.9	
Phenanthrene	15405	AverageRF	30	1.120	1.086	-3.0	50.00	48.5	
Anthracene	15405	AverageRF	30	1.095	1.108	1.2	50.00	50.6	
Carbazole	15405	Quadratic	30				50.00	53.2	6.3
Di-n-butyl Phthalate	15405	AverageRF	30	1.226	1.300	6.0	50.00	53.0	
Fluoranthene	15405	AverageRF	30	0.954	1.022	7.1	50.00	53.5	
Benzidine	15405	AverageRF	30	0.506	0.437	-13.6	100.00	86.4	
Pyrene	15405	AverageRF	30	1.729	1.672	-3.3	50.00	48.4	
Butyl Benzyl Phthalate	15405	AverageRF	30	0.778	0.801	2.9	50.00	51.5	
3,3'-Dichlorobenzidine	15405	Quadratic	30				100.00	104.6	4.6
Benz(a)anthracene	15405	AverageRF	30	1.162	1.209	4.0	50.00	52.0	
Chrysene	15405	AverageRF	30	1.091	1.100	0.8	50.00	50.4	
Bis(2-ethylhexyl) Phthalate	15405	AverageRF	30	1.010	1.068	5.8	50.00	52.9	
Mirex	15405	AverageRF	30	0.217	0.218	0.1	25.00	25.0	
Di-n-octyl Phthalate	15405	AverageRF	30	2.579	2.739	6.2	50.00	53.1	
Benzo(b)fluoranthene	15405	AverageRF	30	1.451	1.421	-2.0	50.00	49.0	
Benzo(k)fluoranthene	15405	AverageRF	30	1.406	1.380	-1.8	50.00	49.1	
Benzo(a)pyrene	15405	AverageRF	30	1.143	1.195	4.5	50.00	52.3	
Indeno(1,2,3-cd)pyrene	15405	AverageRF	30	0.924	1.010	9.4	50.00	54.7	
Dibenz(a,h)anthracene	15405	AverageRF	30	0.795	0.811	1.9	50.00	51.0	
Benzo(g,h,i)perylene	15405	AverageRF	30	0.762	0.801	5.1	50.00	52.5	

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	0.0
Calculated Average %D =	4.3

Response Factor Report MSE

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

Calibration Files
1 =E061879.D 2 =E061880.D 3 =E061881.D
4 =E061882.D 5 =E061883.D 6 =E061884.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)	N	1,4-Dioxane	0.587	0.604	0.593	0.587	0.588	0.570	0.586	2.09
3)	T	N-Nitrosodimeth	0.779	0.777	0.753	0.770	0.756	0.746	0.762	1.78
4)	T	Pyridine	1.542	1.518	1.508	1.536	1.528	1.507	1.520	1.00
5)	N	PGMEA	2.821	2.796	2.814	2.782	2.700	2.673	2.753	2.33
6)	S	2-Fluorophenol	1.228	1.261	1.273	1.293	1.290	1.287	1.274	1.81
7)	S	Phenol-d5	1.622	1.624	1.638	1.675	1.661	1.662	1.651	1.36
8)	CMT	Phenol	1.704	1.718	1.752	1.770	1.741	1.739	1.739	1.26#
9)	T	Aniline	1.772	1.909	2.072	2.067	2.086	2.091	2.014	6.21
10)	T	Bis(2-chloroeth	1.459	1.436	1.430	1.454	1.419	1.411	1.431	1.44
11)	MT	2-Chlorophenol	1.452	1.442	1.460	1.490	1.495	1.486	1.4[illegible]	[illegible]
12)	T	1,3-Dichloroben	1.660	1.616	1.600	1.617	1.608	1.594	1.6[illegible]	[illegible]
13)	CMT	1,4-Dichloroben	1.695	1.676	1.652	1.649	1.627	1.615	1.647	1.82#
14)	T	Benzyl alcohol	0.899	0.896	0.931	0.964	0.962	0.959	0.940	3.36
15)	T	1,2-Dichloroben	1.547	1.563	1.529	1.529	1.535	1.531	1.537	0.88
16)	N	N-Methyl pyrrol	0.858	0.907	0.913	0.964	0.960	0.969	0.935	4.63
17)	T	2-Methylphenol	1.278	1.254	1.286	1.318	1.301	1.300	1.293	1.73
18)	T	Bis(2-chloroiso	2.815	2.776	2.796	2.786	2.681	2.644	2.729	3.09
19)	T	4-Methylphenol	1.563	1.578	1.619	1.676	1.661	1.681	1.638	3.12
20)	PMT	N-Nitrosodi-n-p	0.920	0.941	0.951	0.974	0.990	0.991	0.967	3.11
21)	T	Hexachloroethan	0.589	0.598	0.612	0.611	0.607	0.610	0.606	1.51
22)	I	Naphthalene-d8	ISTD							
23)	S	Nitrobenzene-d5	0.320	0.329	0.340	0.343	0.346	0.346	0.[illegible]	[illegible]
24)	T	Nitrobenzene	0.350	0.349	0.357	0.360	0.357	0.357	0.355	1.13
25)	T	Isophorone	0.593	0.621	0.639	0.650	0.657	0.653	0.637	3.56
26)	CT	2-Nitrophenol	0.172	0.181	0.204	0.250	0.196	0.200	0.200	12.40#
27)	T	2,4-Dimethylphe	0.315	0.324	0.319	0.329	0.329	0.327	0.324	1.66
28)	T	Benzoic acid		0.165	0.194	0.224	0.229	0.234	0.213	13.18
29)	T	Bis(2-chloroeth	0.396	0.405	0.403	0.404	0.402	0.398	0.400	1.21
30)	CT	2,4-Dichlorophe	0.261	0.269	0.279	0.278	0.281	0.276	0.274	2.55#
31)	MT	1,2,4-Trichloro	0.293	0.300	0.300	0.296	0.295	0.293	0.296	1.10
32)	T	Naphthalene	1.053	1.060	1.070	1.046	1.039	1.041	1.048	1.38
33)	T	4-Chloroaniline	0.315	0.350	0.349	0.321	0.412	0.409	0.366	11.56
34)	CT	Hexachlorobutad	0.153	0.155	0.156	0.154	0.157	0.157	0.155	0.96#
35)	CMT	4-Chloro-3-meth	0.246	0.270	0.280	0.288	0.294	0.293	0.280	6.24#
36)	T	2-Methylnaphtha	0.694	0.703	0.711	0.718	0.710	0.713	0.707	1.15
37)	I	Acenaphthene-d10	ISTD							
38)	PT	Hexachlorocyclo	0.297	0.307	0.319	0.322	0.327	0.329	0.318	3.74
39)	CT	2,4,6-Trichloro	0.299	0.320	0.323	0.335	0.338	0.344	0.329	5.01#
40)	T	2,4,5-Trichloro	0.328	0.345	0.351	0.364	0.366	0.371	0.357	4.72
41)	S	2-Fluorobipheny	1.258	1.267	1.272	1.255	1.253	1.263	1.261	0.53
42)	T	2-Chloronaphtha	1.122	1.146	1.131	1.127	1.125	1.129	1.127	0.90
43)	T	2-Nitroaniline	0.300	0.314	0.342	0.356	0.362	0.376	0.347	8.56
44)	T	Dimethylphthala	1.184	1.219	1.239	1.254	1.247	1.257	1.237	2.18
45)	T	Acenaphthylene	1.755	1.812	1.855	1.861	1.835	1.867	1.833	2.12
46)	T	2,6-Dinitrotolu	0.255	0.270	0.290	0.298	0.301	0.305	0.289	6.74
47)	T	3-Nitroaniline	0.235	0.249	0.191	0.156	0.261	0.286	0.238	20.59
48)	CMT	Acenaphthene	1.182	1.221	1.247	1.261	1.264	1.133	1.208	4.41#
49)	PT	2,4-Dinitrophen			0.138	0.169	0.176	0.189	0.173	12.48
50)	PMT	4-Nitrophenol	0.114	0.124	0.136	0.155	0.148	0.158	0.142	12.33
51)	T	Dibenzofuran	1.568	1.589	1.572	1.586	1.578	1.588	1.579	0.54
52)	MT	2,4-Dinitrotolu	0.326	0.349	0.359	0.386	0.385	0.390	0.369	6.92
53)	T	Fluorene	1.252	1.267	1.281	1.294	1.289	1.302	1.285	1.62

(#) = Out of Range ### Number of calibration levels exceeded format ###

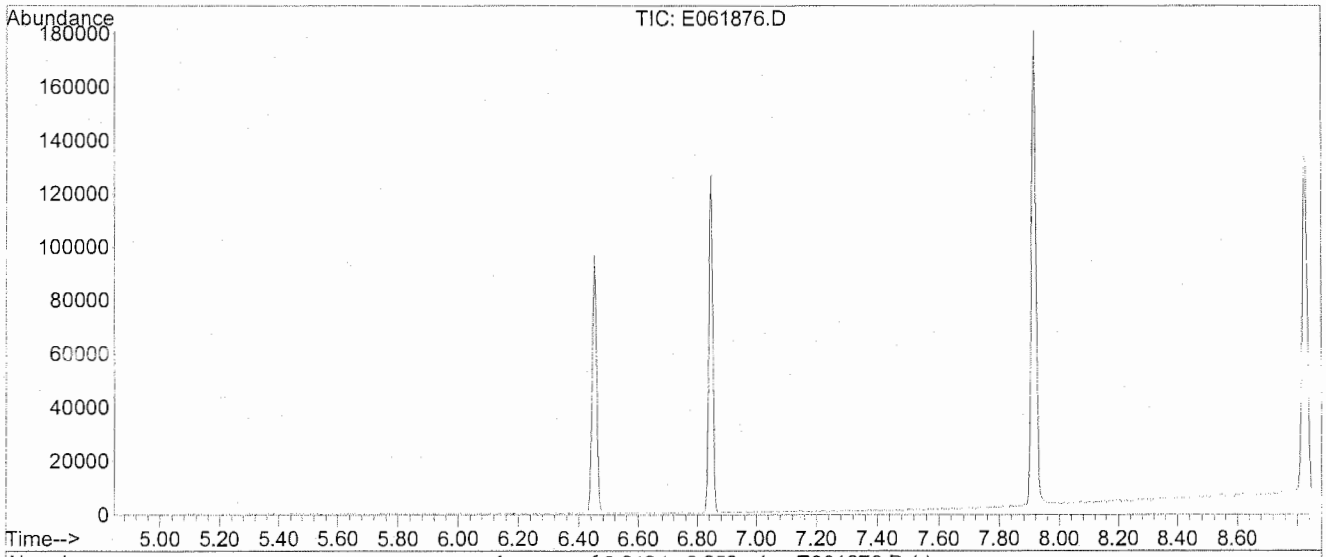
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

Calibration Files
1 =E061879.D 2 =E061880.D 3 =E061881.D
4 =E061882.D 5 =E061883.D 6 =E061884.D

		Compound	1	2	3	4	5	6	Avg	%RSD
54)	T	Diethylphthalat	1.197	1.227	1.244	1.254	1.269	1.260	1.246	2.09
55)	T	4-Chlorophenyl	0.537	0.562	0.553	0.559	0.555	0.560	0.555	1.56
56)	T	4-Nitroaniline	0.217	0.188	0.137	0.168	0.230	0.263	0.210	22.96
57)	I	Phenanthrene-d10	ISTD							
58)	T	2-Methyl-4,6-di		0.107	0.124	0.138	0.142	0.145	0.133	11.22
59)	CT	N-Nitrosodiphen	0.580	0.598	0.584	0.502	0.564	0.574	0.571	5.76#
60)	N	Azobenzene	0.804	0.815	0.838	0.824	0.825	0.803	0.818	1.52
61)	S	2,4,6-Tribromop	0.082	0.089	0.095	0.099	0.101	0.102	0.096	8.22
62)	T	4-Bromophenyl p	0.204	0.210	0.208	0.209	0.213	0.212	0.210	1.81
63)	T	Hexachlorobenze	0.221	0.222	0.224	0.217	0.223	0.218	0.221	1.27
64)	CMT	Pentachlorophen		0.121	0.137	0.149	0.155	0.157	0.[illegible]	[illegible]#
65)	T	Phenanthrene	1.131	1.122	1.125	1.127	1.111	1.106	1.[illegible]	[illegible]
66)	T	Anthracene	1.051	1.078	1.103	1.115	1.107	1.099	1.095	2.12
67)	N	Carbazole	0.894	0.864	0.668	0.395	0.531	0.713	0.702	26.67
68)	T	Di-n-butylphtha	1.074	1.168	1.257	1.270	1.285	1.254	1.226	6.29
69)	CT	Fluoranthene	0.890	0.921	0.952	1.004	0.961	0.968	0.954	3.98#
70)	I	Chrysene-d12	ISTD							
71)	N	Benzidine	0.395	0.574	0.588	0.542	0.486	0.466	0.506	13.29
72)	MT	Pyrene	1.601	1.712	1.710	1.737	1.870	1.758	1.729	4.62
73)	S	Terphenyl-d14	1.028	1.079	1.112	1.118	1.219	1.142	1.118	5.23
74)	T	Butylbenzylphth	0.738	0.708	0.760	0.792	0.867	0.796	0.778	6.49
75)	T	3,3'-Dichlorobe	0.309	0.273	0.270	0.223	0.276	0.349	0.[illegible]	[illegible]
76)	T	Benz(a)anthrace	1.148	1.121	1.142	1.174	1.180	1.184	1.[illegible]	[illegible]
77)	T	Chrysene	1.116	1.087	1.090	1.094	1.077	1.083	1.091	1.13
78)	T	Bis(2-ethylhexy	0.850	0.913	1.001	1.037	1.154	1.052	1.010	9.99
79)	N	Mirex	0.173	0.200	0.220	0.220	0.249	0.230	0.217	11.30
80)	I	Perylene-d12	ISTD							
81)	CT	Di-n-octylphtha	1.872	1.963	2.345	2.833	3.408	2.911	2.579	21.33#
82)	T	Benzo(b)fluoran	1.579	1.341	1.322	1.439	1.521	1.486	1.451	6.39
83)	T	Benzo(k)fluoran	1.574	1.350	1.357	1.391	1.418	1.385	1.406	5.52
84)	CT	Benzo(a)pyrene	1.206	1.028	1.068	1.140	1.169	1.188	1.143	6.05#
85)	T	Indeno(1,2,3-c,	0.926	0.819	0.865	0.869	0.884	1.009	0.924	10.43
86)	T	Dibenz(a,h)anth	0.763	0.726	0.754	0.754	0.765	0.865	0.795	9.75
87)	T	Benzo(g,h,i)per	0.728	0.700	0.729	0.717	0.725	0.827	0.762	9.98

(#) = Out of Range ### Number of calibration levels exceeded format ###

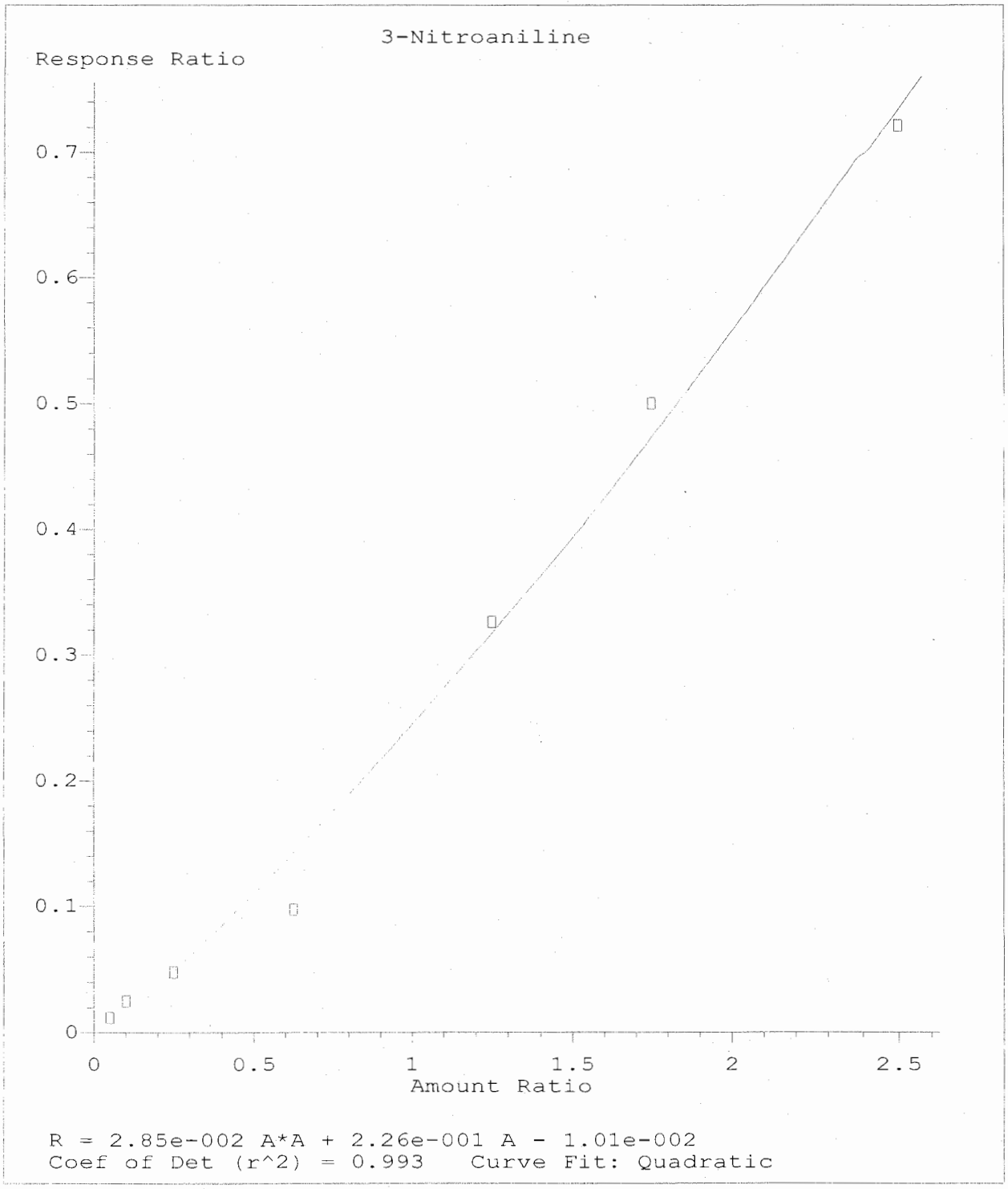
Data File : C:\MSDCHEM\1\DATA\E061226\E061876.D Vial: 1
Acq On : 26 Dec 2006 1:16 pm Operator: SC
Sample : STUN1226 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method



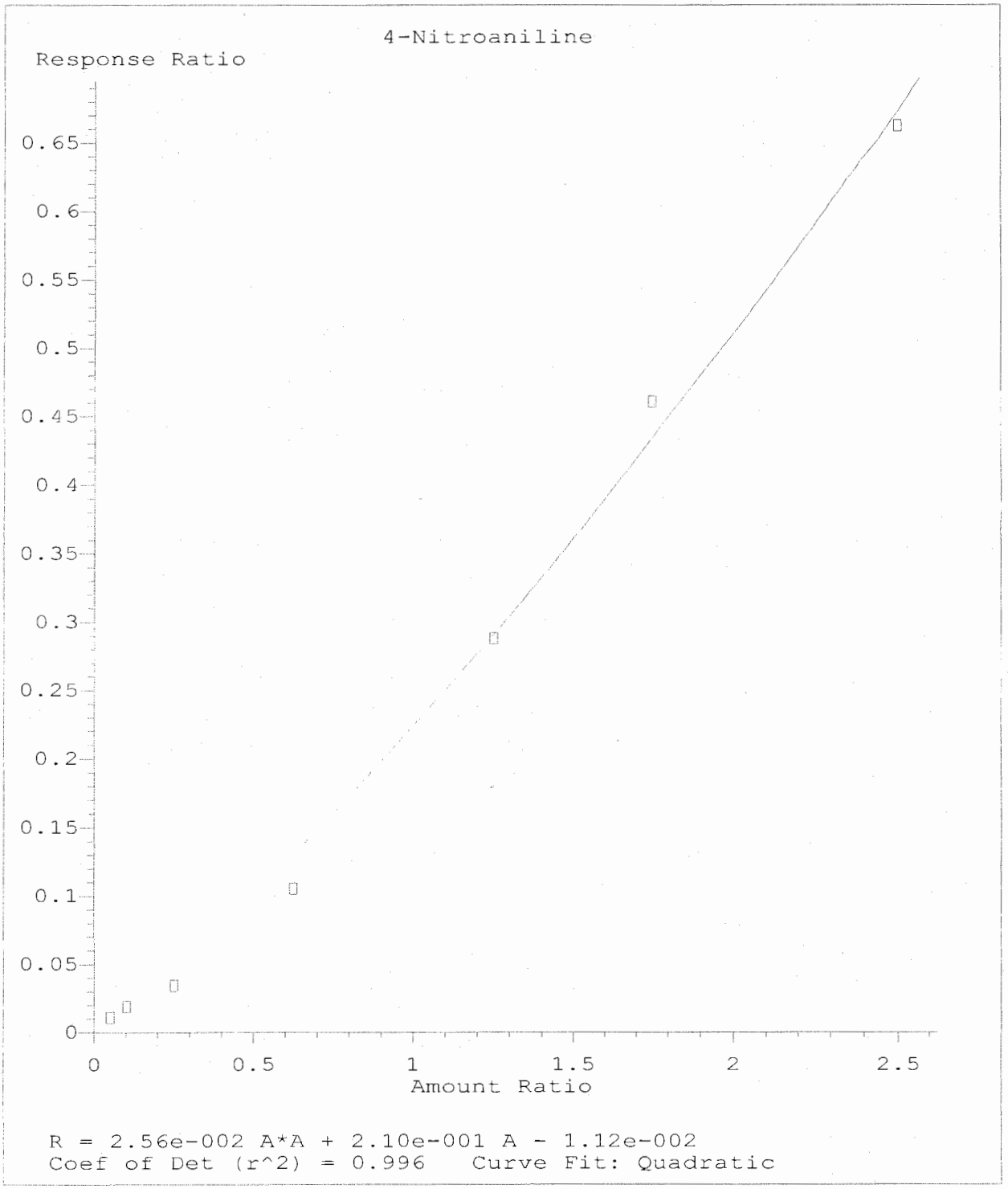
AutoFind: Scans 330, 331, 332; Background Corrected with Scan 318

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.9	6624	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.4	5240	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	57.4	6345	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	11060	PASS
199	198	5	9	6.9	761	PASS
275	198	10	30	26.5	2934	PASS
365	198	1	100	3.4	378	PASS
441	443	0.01	100	77.1	1477	PASS
442	198	40	100	90.7	10033	PASS
443	442	17	23	19.1	1916	PASS

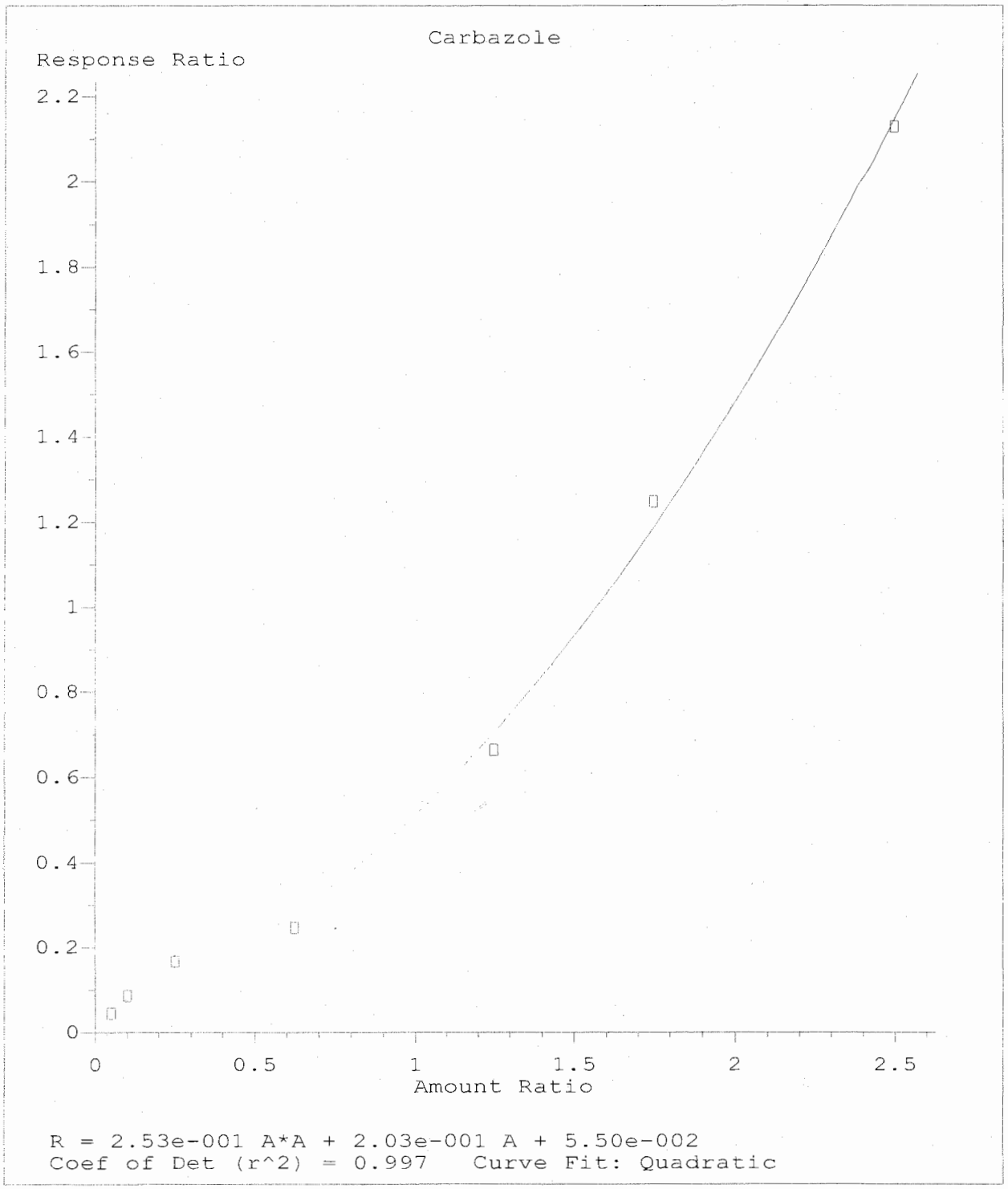
E061876.D TUNE.M Wed Dec 27 16:03:42 2006



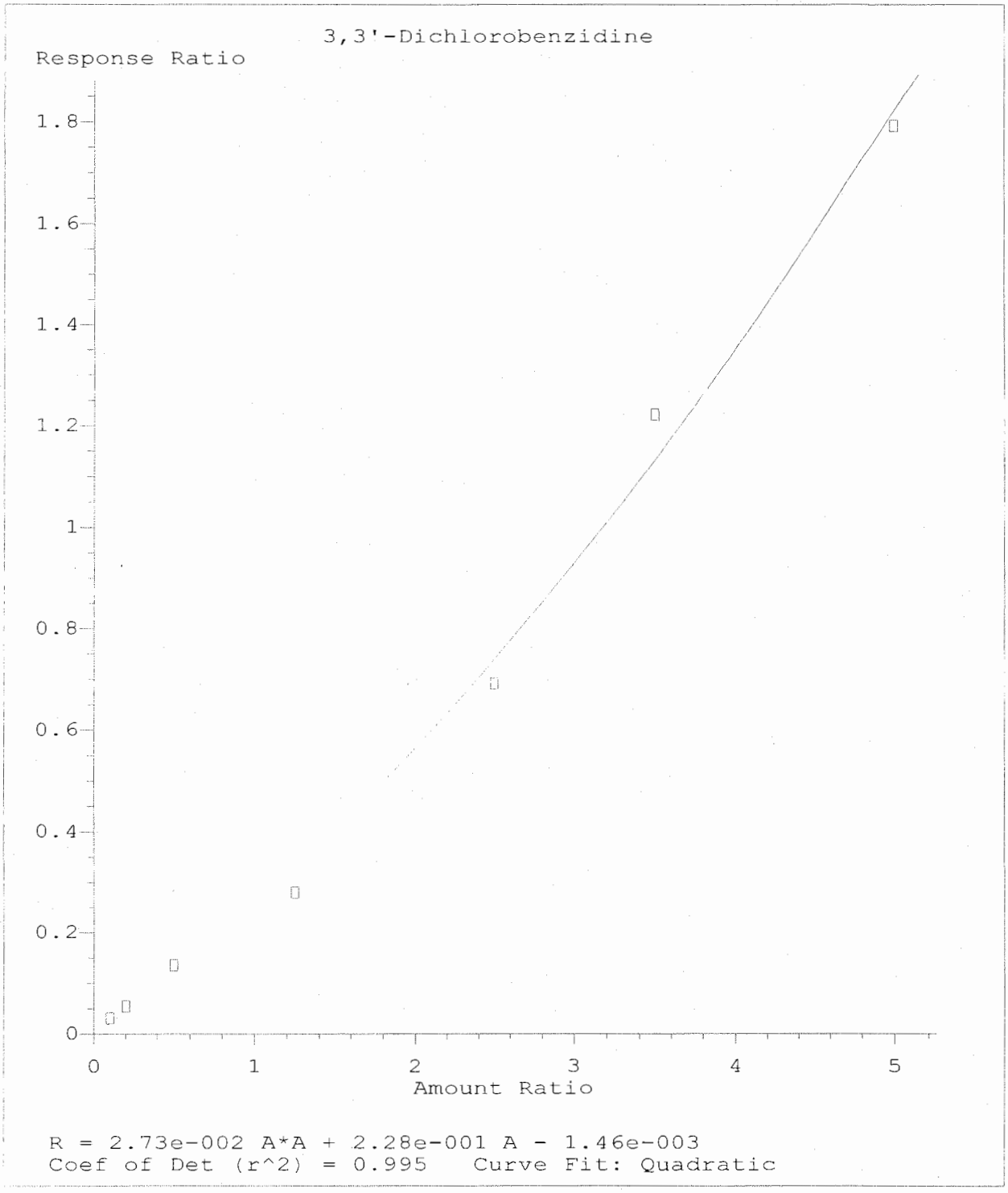
Method Name: C:\MSDCHEM\1\METHODS\BA061226.M
Calibration Table Last Updated: Wed Dec 27 09:26:51 2006



Method Name: C:\MSDCHEM\1\METHODS\BA061226.M
Calibration Table Last Updated: Wed Dec 27 09:46:57 2006



Method Name: C:\MSDCHEM\1\METHODS\BA061226.M
Calibration Table Last Updated: Wed Dec 27 09:47:17 2006



Method Name: C:\MSDCHEM\1\METHODS\BA061226.M
Calibration Table Last Updated: Wed Dec 27 09:47:38 2006

Calibration Status Report MSE

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	2	40	C:\MSDCHEM\1\DATA\E061226\E061879.D
2	2	4	40	C:\MSDCHEM\1\DATA\E061226\E061880.D
3	3	10	40	C:\MSDCHEM\1\DATA\E061226\E061881.D
4	4	25	40	C:\MSDCHEM\1\DATA\E061226\E061882.D
5	5	50	40	C:\MSDCHEM\1\DATA\E061226\E061883.D
6	6	70	40	C:\MSDCHEM\1\DATA\E061226\E061884.D
7	7	100	40	C:\MSDCHEM\1\DATA\E061226\E061885.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Dec 27 09:11 2006	Dec 27 09:07 2006	26 Dec 2006 2:51 pm
2	2	Dec 27 09:11 2006	Dec 27 09:05 2006	26 Dec 2006 3:23 pm
3	3	Dec 27 09:12 2006	Dec 27 08:56 2006	26 Dec 2006 3:5[illegible]
4	4	Dec 27 09:12 2006	Dec 27 08:58 2006	26 Dec 2006 4:2[illegible]
5	5	Dec 27 09:12 2006	Dec 27 09:00 2006	26 Dec 2006 5:01 pm
6	6	Dec 27 09:13 2006	Dec 27 09:02 2006	26 Dec 2006 5:33 pm
7	7	Dec 27 09:13 2006	Dec 27 09:03 2006	26 Dec 2006 6:05 pm

BA061226.M Wed Dec 27 09:48:35 2006

DATA ANALYSIS PARAMETERS

Method Name: C:\MSDCHEM\1\METHODS\BA061226.M

Percent Report Settings

Sort By: Signal

Output Destination
Screen: No
Printer: Yes
File: No

Integration Events: Meth Default

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search	Minimum Quality
C:\Database\NIST98.L	0

Integration Events: Meth Default

Report Type: Summary

Output Destination
Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination
Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

MS09 EPA Method 625/8270C
Calibration Last Updated: Wed Dec 27 09:48:07 2006

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes

Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---

1) 1,4-Dichlorobenzene-d4 (ISTD TR)

Ret. Time 6.36 min., Extract & Integrate from 6.06 to 6.66 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	152.00			*** METH DEFAULT ***
Q1	150.00	154.20	20.0	*** METH DEFAULT ***
Q2	115.00	59.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	194464
2		40.000	195783
3		40.000	183318
4		40.000	174410
5		40.000	187948
6		40.000	184673
7		40.000	165487

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

2) 1,4-Dioxane ( )

Ret. Time 3.02 min., Extract & Integrate from 2.72 to 3.32 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	88.10			*** METH DEFAULT ***
Q1	58.00	66.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	5711
2		4.000	11834
3		10.000	27196
4		25.000	63944
5		50.000	138145
6		70.000	184236
7		100.000	236025

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

3) N-Nitrosodimethylamine ( )

Ret. Time 3.37 min., Extract & Integrate from 3.07 to 3.67 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	42.10			*** METH DEFAULT ***
Q1	74.10	123.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	7576
2		4.000	15210
3		10.000	34517
4		25.000	83974
5		50.000	177615
6		70.000	241045
7		100.000	310408

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

4) Pyridine ( )

Ret. Time 3.39 min., Extract & Integrate from 3.09 to 3.69 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 79.10			*** METH DEFAULT ***
Q1 52.00	61.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	14992
2		4.000	29711
3		10.000	69092
4		25.000	167462
5		50.000	359004
6		70.000	486917
7		100.000	622289

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

5) PGMEA ( )

Ret. Time 4.64 min., Extract & Integrate from 4.34 to 4.94 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 43.00			*** METH DEFAULT ***
Q1 58.10	12.10	20.0	*** METH DEFAULT ***
Q2 72.10	25.50	20.0	*** METH DEFAULT ***
Q3 87.10	9.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27425
2		4.000	54739
3		10.000	128981
4		25.000	303263
5		50.000	634263
6		70.000	863719
7		100.000	1111507

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

6) 2-Fluorophenol ( )

Ret. Time 4.73 min., Extract & Integrate from 4.43 to 5.03 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 112.00			*** METH DEFAULT ***
Q1 64.00	63.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	11936
2		4.000	24691
3		10.000	58332
4		25.000	140895
5		50.000	303143
6		70.000	416063
7		100.000	530675

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

7) Phenol-d5 ( )

Ret. Time 5.87 min., Extract & Integrate from 5.57 to 6.17 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 99.10			*** METH DEFAULT ***
Q1 71.10	41.30	20.0	*** METH DEFAULT ***

Q2	42.10	20.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15767
2		4.000	31803
3		10.000	75056
4		25.000	182567
5		50.000	390169
6		70.000	537280
7		100.000	691919

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

8) Phenol ( )

Ret. Time 5.89 min., Extract & Integrate from 5.59 to 6.19 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	94.10			*** METH DEFAULT ***
Q1	66.10	47.90	20.0	*** METH DEFAULT ***
Q2	65.10	33.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	16573
2		4.000	33628
3		10.000	80311
4		25.000	192914
5		50.000	408938
6		70.000	562040
7		100.000	723729

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

9) Aniline ( )

Ret. Time 5.97 min., Extract & Integrate from 5.67 to 6.27 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	93.10			*** METH DEFAULT ***
Q1	66.10	40.00	20.0	*** METH DEFAULT ***
Q2	65.10	21.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	17230
2		4.000	37372
3		10.000	94936
4		25.000	225363
5		50.000	490129
6		70.000	675855
7		100.000	867703

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

10) Bis(2-chloroethyl)ether ( )

Ret. Time 6.03 min., Extract & Integrate from 5.73 to 6.33 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	93.00			*** METH DEFAULT ***
Q1	63.00	73.50	20.0	*** METH DEFAULT ***
Q2	95.00	32.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	14191
2		4.000	28117
3		10.000	65554

4	25.000	158488
5	50.000	333366
6	70.000	455961
7	100.000	581737

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

11) 2-Chlorophenol ( )

Ret. Time 6.12 min., Extract & Integrate from 5.82 to 6.42 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 128.00			*** METH DEFAULT ***
Q1 64.00	48.50	20.0	*** METH DEFAULT ***
Q2 130.00	33.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	14116
2		4.000	28224
3		10.000	66895
4		25.000	162396
5		50.000	351264
6		70.000	480300
7		100.000	617999

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

12) 1,3-Dichlorobenzene ( )

Ret. Time 6.31 min., Extract & Integrate from 6.01 to 6.61 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	63.90	20.0	*** METH DEFAULT ***
Q2 111.00	39.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	16136
2		4.000	31639
3		10.000	73314
4		25.000	176317
5		50.000	377857
6		70.000	515234
7		100.000	660528

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

13) 1,4-Dichlorobenzene ( )

Ret. Time 6.38 min., Extract & Integrate from 6.08 to 6.68 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	64.40	20.0	*** METH DEFAULT ***
Q2 111.00	38.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	16479
2		4.000	32813
3		10.000	75692
4		25.000	179715
5		50.000	382128
6		70.000	521841
7		100.000	669722

Qualifier Peak Analysis ON

Curve Fit: Avg. RF

---

14) Benzyl alcohol ( )

Ret. Time 6.53 min., Extract & Integrate from 6.23 to 6.83 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 108.10			*** METH DEFAULT ***
Q1 79.10	147.00	20.0	*** METH DEFAULT ***
Q2 77.00	98.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	8738
2		4.000	17542
3		10.000	42651
4		25.000	105090
5		50.000	226004
6		70.000	309859
7		100.000	400782

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

15) 1,2-Dichlorobenzene ( )

Ret. Time 6.62 min., Extract & Integrate from 6.32 to 6.92 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	62.10	20.0	*** METH DEFAULT ***
Q2 111.00	41.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15041
2		4.000	30603
3		10.000	70058
4		25.000	166706
5		50.000	360704
6		70.000	494704
7		100.000	630681

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

16) N-Methyl pyrrolidine (NMP) ( )

Ret. Time 6.67 min., Extract & Integrate from 6.37 to 6.97 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 99.10			*** METH DEFAULT ***
Q1 98.10	70.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	8347
2		4.000	17757
3		10.000	41830
4		25.000	105050
5		50.000	225511
6		70.000	313149
7		100.000	402831

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

17) 2-Methylphenol ( )

Ret. Time 6.69 min., Extract & Integrate from 6.39 to 6.99 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 108.10			*** METH DEFAULT ***
Q1 107.10	88.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12428
2		4.000	24554
3		10.000	58958
4		25.000	143686
5		50.000	305620
6		70.000	420284
7		100.000	544091

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

18) Bis(2-chloroisopropyl)ether ( )

Ret. Time 6.73 min., Extract & Integrate from 6.43 to 7.03 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 45.10			*** METH DEFAULT ***
Q1 77.00	17.80	20.0	*** METH DEFAULT ***
Q2 121.10	31.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27369
2		4.000	54348
3		10.000	128124
4		25.000	303697
5		50.000	629933
6		70.000	854351
7		100.000	1077050

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

19) 4-Methylphenol ( )

Ret. Time 6.87 min., Extract & Integrate from 6.57 to 7.17 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 107.10			*** METH DEFAULT ***
Q1 108.10	81.20	20.0	*** METH DEFAULT ***
Q2 77.10	37.30	20.0	*** METH DEFAULT ***
Q3 79.10	26.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15197
2		4.000	30903
3		10.000	74201
4		25.000	182654
5		50.000	390329
6		70.000	543132
7		100.000	697675

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

20) N-Nitrosodi-n-propylamine ( )

Ret. Time 6.92 min., Extract & Integrate from 6.62 to 7.02 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 70.10			*** METH DEFAULT ***
Q1 43.10	89.10	20.0	*** METH DEFAULT ***
Q2 130.10	24.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response

1	2.000	8945
2	4.000	18421
3	10.000	43604
4	25.000	106203
5	50.000	232631
6	70.000	320292
7	100.000	413953

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

21) Hexachloroethane ( )

Ret. Time 7.03 min., Extract & Integrate from 6.73 to 7.33 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 116.90			*** METH DEFAULT ***
Q1 200.90	102.80	20.0	*** METH DEFAULT ***
Q2 198.90	64.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	5728
2		4.000	11713
3		10.000	28059
4		25.000	66655
5		50.000	142528
6		70.000	197069
7		100.000	254330

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

22) Naphthalene-d8 (ISTD TR)

Ret. Time 8.02 min., Extract & Integrate from 7.72 to 8.32 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 136.10			*** METH DEFAULT ***
Q1 68.00	5.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	768067
2		40.000	766038
3		40.000	717819
4		40.000	694619
5		40.000	748255
6		40.000	740240
7		40.000	671716

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

23) Nitrobenzene-d5 ( )

Ret. Time 7.11 min., Extract & Integrate from 6.81 to 7.41 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 82.10			*** METH DEFAULT ***
Q1 128.10	41.90	20.0	*** METH DEFAULT ***
Q2 54.10	50.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12305
2		4.000	25217
3		10.000	60952
4		25.000	148866
5		50.000	323342
6		70.000	447726
7		100.000	574792

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

24) Nitrobenzene ( )

Ret. Time 7.13 min., Extract & Integrate from 6.83 to 7.43 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 77.00			*** METH DEFAULT ***
Q1 123.00	39.60	20.0	*** METH DEFAULT ***
Q2 51.00	49.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	13447
2		4.000	26766
3		10.000	64128
4		25.000	156306
5		50.000	334273
6		70.000	462827
7		100.000	595689

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

25) Isophorone ( )

Ret. Time 7.42 min., Extract & Integrate from 7.12 to 7.72 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 82.10			*** METH DEFAULT ***
Q1 138.10	18.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	22775
2		4.000	47557
3		10.000	114701
4		25.000	282105
5		50.000	614612
6		70.000	846008
7		100.000	1083362

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

26) 2-Nitrophenol ( )

Ret. Time 7.54 min., Extract & Integrate from 7.24 to 7.84 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 139.00			*** METH DEFAULT ***
Q1 65.00	59.10	20.0	*** METH DEFAULT ***
Q2 109.00	38.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6609
2		4.000	13884
3		10.000	36551
4		25.000	108646
5		50.000	183669
6		70.000	258562
7		100.000	330852

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

27) 2,4-Dimethylphenol ( )

Ret. Time 7.55 min., Extract & Integrate from 7.25 to 7.85 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 122.10			*** METH DEFAULT ***
Q1 107.10	130.50	20.0	*** METH DEFAULT ***
Q2 121.10	57.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12088
2		4.000	24842
3		10.000	57167
4		25.000	142653
5		50.000	307860
6		70.000	423389
7		100.000	547068

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

28) Benzoic acid ( )

Ret. Time 7.82 min., Extract & Integrate from 7.52 to 8.12 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 122.10			*** METH DEFAULT ***
Q1 105.10	137.70	20.0	*** METH DEFAULT ***
Q2 77.10	112.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		20.000	63051
3		50.000	173684
4		125.000	487209
5		250.000	1073170
6		350.000	1518271
7		500.000	1949592

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

29) Bis(2-chloroethoxy)methane ( )

Ret. Time 7.68 min., Extract & Integrate from 7.38 to 7.98 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 93.00			*** METH DEFAULT ***
Q1 63.00	69.30	20.0	*** METH DEFAULT ***
Q2 123.00	14.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15226
2		4.000	31041
3		10.000	72278
4		25.000	175598
5		50.000	376231
6		70.000	515808
7		100.000	658159

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

30) 2,4-Dichlorophenol ( )

Ret. Time 7.83 min., Extract & Integrate from 7.53 to 8.13 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 162.00			*** METH DEFAULT ***
Q1 164.00	64.10	20.0	*** METH DEFAULT ***
Q2 98.00	32.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	10016
2		4.000	20641
3		10.000	49991
4		25.000	120784
5		50.000	262590
6		70.000	357560
7		100.000	465830

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

31) 1,2,4-Trichlorobenzene ( )

Ret. Time 7.95 min., Extract & Integrate from 7.65 to 8.25 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	179.90			*** METH DEFAULT ***
Q1	181.90	95.80	20.0	*** METH DEFAULT ***
Q2	145.00	29.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	11256
2		4.000	22997
3		10.000	53828
4		25.000	128384
5		50.000	275706
6		70.000	379720
7		100.000	490960

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

32) Naphthalene ( )

Ret. Time 8.05 min., Extract & Integrate from 7.75 to 8.35 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	128.10			*** METH DEFAULT ***
Q1	129.10	10.90	20.0	*** METH DEFAULT ***
Q2	127.10	13.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	40434
2		4.000	81223
3		10.000	192000
4		25.000	454155
5		50.000	971733
6		70.000	1347939
7		100.000	1724136

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

33) 4-Chloroaniline ( )

Ret. Time 8.11 min., Extract & Integrate from 7.81 to 8.41 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	127.00			*** METH DEFAULT ***
Q1	129.00	32.40	20.0	*** METH DEFAULT ***
Q2	65.00	34.80	20.0	*** METH DEFAULT ***
Q3	92.10	19.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12107
2		4.000	26847
3		10.000	62718

4	25.000	139283
5	50.000	385558
6	70.000	529785
7	100.000	682751

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

34) Hexachlorobutadiene ( )

Ret. Time 8.25 min., Extract & Integrate from 7.95 to 8.55 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	224.90			*** METH DEFAULT ***
Q1	222.90	63.10	20.0	*** METH DEFAULT ***
Q2	226.80	63.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	5873
2		4.000	11884
3		10.000	28054
4		25.000	67074
5		50.000	146931
6		70.000	203459
7		100.000	260630

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

35) 4-Chloro-3-methylphenol ( )

Ret. Time 8.69 min., Extract & Integrate from 8.39 to 8.99 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	107.10			*** METH DEFAULT ***
Q1	142.00	79.10	20.0	*** METH DEFAULT ***
Q2	144.00	25.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	9438
2		4.000	20714
3		10.000	50169
4		25.000	124979
5		50.000	274972
6		70.000	379764
7		100.000	490285

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

36) 2-Methylnaphthalene ( )

Ret. Time 8.92 min., Extract & Integrate from 8.62 to 9.22 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	142.10			*** METH DEFAULT ***
Q1	141.10	86.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	26638
2		4.000	53864
3		10.000	127569
4		25.000	311689
5		50.000	664393
6		70.000	923935
7		100.000	1179496

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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37) Acenaphthene-d10 (ISTD TR)

Ret. Time 10.26 min., Extract & Integrate from 9.96 to 10.56 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	164.20			*** METH DEFAULT ***
Q1	162.10	91.00	20.0	*** METH DEFAULT ***
Q2	160.10	40.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	414550
2		40.000	415428
3		40.000	389154
4		40.000	382921
5		40.000	416321
6		40.000	407271
7		40.000	369208

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

38) Hexachlorocyclopentadiene ( )

Ret. Time 9.19 min., Extract & Integrate from 8.89 to 9.49 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	236.90			*** METH DEFAULT ***
Q1	234.90	63.90	20.0	*** METH DEFAULT ***
Q2	271.80	12.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6159
2		4.000	12748
3		10.000	31013
4		25.000	77141
5		50.000	170302
6		70.000	234243
7		100.000	301383

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

39) 2,4,6-Trichlorophenol ( )

Ret. Time 9.29 min., Extract & Integrate from 8.99 to 9.59 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	95.20	20.0	*** METH DEFAULT ***
Q2	199.90	31.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6205
2		4.000	13289
3		10.000	31458
4		25.000	80200
5		50.000	176148
6		70.000	245271
7		100.000	319376

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

40) 2,4,5-Trichlorophenol ( )

Ret. Time 9.34 min., Extract & Integrate from 9.04 to 9.64 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	94.20	20.0	*** METH DEFAULT ***
Q2	97.00	53.00	20.0	*** METH DEFAULT ***
Q3	132.00	25.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6791
2		4.000	14315
3		10.000	34119
4		25.000	87167
5		50.000	190603
6		70.000	264469
7		100.000	345765

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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41) 2-Fluorobiphenyl ( )

Ret. Time 9.39 min., Extract & Integrate from 9.09 to 9.69 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	172.10			*** METH DEFAULT ***
Q1	171.10	35.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	26079
2		4.000	52629
3		10.000	123762
4		25.000	300414
5		50.000	651981
6		70.000	900414
7		100.000	1163212

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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42) 2-Chloronaphthalene ( )

Ret. Time 9.54 min., Extract & Integrate from 9.24 to 9.84 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	162.00			*** METH DEFAULT ***
Q1	164.00	32.80	20.0	*** METH DEFAULT ***
Q2	127.10	36.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	23257
2		4.000	47611
3		10.000	110053
4		25.000	269745
5		50.000	585287
6		70.000	804489
7		100.000	1026959

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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43) 2-Nitroaniline ( )

Ret. Time 9.69 min., Extract & Integrate from 9.39 to 9.99 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	65.00			*** METH DEFAULT ***
Q1	92.10	64.90	20.0	*** METH DEFAULT ***
Q2	138.10	100.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response

1	2.000	6219
2	4.000	13046
3	10.000	33301
4	25.000	85100
5	50.000	188474
6	70.000	268110
7	100.000	346503

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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44) Dimethylphthalate ( )

Ret. Time 9.93 min., Extract & Integrate from 9.63 to 10.23 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 163.10			*** METH DEFAULT ***
Q1 77.00	21.80	20.0	*** METH DEFAULT ***
Q2 194.10	6.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	24535
2		4.000	50630
3		10.000	120513
4		25.000	300089
5		50.000	649103
6		70.000	896148
7		100.000	1160061

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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45) Acenaphthylene ( )

Ret. Time 10.08 min., Extract & Integrate from 9.78 to 10.38 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 152.10			*** METH DEFAULT ***
Q1 151.10	20.00	20.0	*** METH DEFAULT ***
Q2 153.10	12.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	36383
2		4.000	75296
3		10.000	180446
4		25.000	445453
5		50.000	954843
6		70.000	1330516
7		100.000	1704728

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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46) 2,6-Dinitrotoluene ( )

Ret. Time 10.03 min., Extract & Integrate from 9.73 to 10.23 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 165.00			*** METH DEFAULT ***
Q1 63.00	56.60	20.0	*** METH DEFAULT ***
Q2 89.10	58.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	5290
2		4.000	11196
3		10.000	28190
4		25.000	71363
5		50.000	156478
6		70.000	217105

7	100.000	282443

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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47) 3-Nitroaniline ( )

Ret. Time 10.20 min., Extract & Integrate from 9.90 to 10.50 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 138.10			*** METH DEFAULT ***
Q1 92.10	119.00	20.0	*** METH DEFAULT ***
Q2 108.10	10.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	4871
2		4.000	10353
3		10.000	18626
4		25.000	37238
5		50.000	135724
6		70.000	203562
7		100.000	266125

Qualifier Peak Analysis ON
Curve Fit: Quadratic

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48) Acenaphthene ( )

Ret. Time 10.31 min., Extract & Integrate from 10.01 to 10.61 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 154.10			*** METH DEFAULT ***
Q1 153.10	107.90	20.0	*** METH DEFAULT ***
Q2 152.10	49.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	24496
2		4.000	50720
3		10.000	121294
4		25.000	301718
5		50.000	657877
6		70.000	807749
7		100.000	1062954

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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49) 2,4-Dinitrophenol ( )

Ret. Time 10.33 min., Extract & Integrate from 10.23 to 10.63 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 184.00			*** METH DEFAULT ***
Q1 63.00	64.80	20.0	*** METH DEFAULT ***
Q2 154.00	60.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		20.000	26775
4		50.000	80962
5		100.000	183527
6		140.000	268717
7		200.000	353330

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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50) 4-Nitrophenol ( )

Ret. Time 10.37 min., Extract & Integrate from 10.27 to 10.67 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	109.10			*** METH DEFAULT ***
Q1	65.10	111.60	20.0	*** METH DEFAULT ***
Q2	139.10	101.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		4.000	4717
2		8.000	10318
3		20.000	26471
4		50.000	74414
5		100.000	153657
6		140.000	224747
7		200.000	289771

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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51) Dibenzofuran ( )

Ret. Time 10.50 min., Extract & Integrate from 10.20 to 10.80 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	168.10			*** METH DEFAULT ***
Q1	139.10	39.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	32495
2		4.000	66015
3		10.000	152921
4		25.000	379675
5		50.000	821333
6		70.000	1131688
7		100.000	1452933

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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52) 2,4-Dinitrotoluene ( )

Ret. Time 10.52 min., Extract & Integrate from 10.32 to 10.82 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	165.10			*** METH DEFAULT ***
Q1	63.00	47.60	20.0	*** METH DEFAULT ***
Q2	89.00	77.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6748
2		4.000	14488
3		10.000	34880
4		25.000	92325
5		50.000	200327
6		70.000	278069
7		100.000	361853

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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53) Fluorene ( )

Ret. Time 10.94 min., Extract & Integrate from 10.64 to 11.24 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	166.10			*** METH DEFAULT ***
Q1	165.10	93.60	20.0	*** METH DEFAULT ***

Q2	167.10	13.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	25960
2		4.000	52619
3		10.000	124614
4		25.000	309738
5		50.000	670815
6		70.000	927619
7		100.000	1212276

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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54) Diethylphthalate ( )

Ret. Time 10.81 min., Extract & Integrate from 10.51 to 11.11 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	177.10	23.80	20.0	*** METH DEFAULT ***
Q2	150.10	12.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	24815
2		4.000	50964
3		10.000	120992
4		25.000	300197
5		50.000	660334
6		70.000	898183
7		100.000	1171118

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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55) 4-Chlorophenyl phenyl ether ( )

Ret. Time 10.91 min., Extract & Integrate from 10.61 to 11.21 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	204.00			*** METH DEFAULT ***
Q1	206.00	32.40	20.0	*** METH DEFAULT ***
Q2	141.10	57.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	11124
2		4.000	23358
3		10.000	53806
4		25.000	133676
5		50.000	288899
6		70.000	399174
7		100.000	516358

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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56) 4-Nitroaniline ( )

Ret. Time 10.99 min., Extract & Integrate from 10.69 to 11.29 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	138.10			*** METH DEFAULT ***
Q1	65.00	108.00	20.0	*** METH DEFAULT ***
Q2	108.10	93.80	20.0	*** METH DEFAULT ***
Q3	92.10	51.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	4501
2		4.000	7806

3	10.000	13299
4	25.000	40283
5	50.000	119870
6	70.000	187613
7	100.000	244574

Qualifier Peak Analysis ON
Curve Fit: Quadratic

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57) Phenanthrene-d10 (ISTD TR)

Ret. Time 12.15 min., Extract & Integrate from 11.85 to 12.45 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 188.20			*** METH DEFAULT ***
Q1 94.00	7.70	20.0	*** METH DEFAULT ***
Q2 80.00	8.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	610431
2		40.000	621089
3		40.000	575672
4		40.000	582081
5		40.000	621575
6		40.000	621549
7		40.000	561916

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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58) 2-Methyl-4,6-dinitrophenol ( )

Ret. Time 11.04 min., Extract & Integrate from 10.74 to 11.34 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 198.00			*** METH DEFAULT ***
Q1 51.00	42.60	20.0	*** METH DEFAULT ***
Q2 105.00	38.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		8.000	13306
3		20.000	35792
4		50.000	100078
5		100.000	221061
6		140.000	314629
7		200.000	406377

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

59) N-Nitrosodiphenylamine ( )

Ret. Time 11.06 min., Extract & Integrate from 10.76 to 11.36 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 169.10			*** METH DEFAULT ***
Q1 168.10	63.50	20.0	*** METH DEFAULT ***
Q2 167.10	33.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	17698
2		4.000	37157
3		10.000	84049
4		25.000	182527
5		50.000	437924
6		70.000	624164
7		100.000	837997

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

60) Azobenzene ( )

Ret. Time 11.11 min., Extract & Integrate from 10.81 to 11.41 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	77.00			*** METH DEFAULT ***
Q1	51.00	30.90	20.0	*** METH DEFAULT ***
Q2	182.10	28.90	20.0	*** METH DEFAULT ***
Q3	105.10	14.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	24527
2		4.000	50603
3		10.000	120536
4		25.000	299745
5		50.000	641201
6		70.000	873105
7		100.000	1146107

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

61) 2,4,6-Tribromophenol ( )

Ret. Time 11.26 min., Extract & Integrate from 10.96 to 11.56 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	329.80			*** METH DEFAULT ***
Q1	331.80	96.10	20.0	*** METH DEFAULT ***
Q2	141.00	48.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	2513
2		4.000	5526
3		10.000	13602
4		25.000	35942
5		50.000	78431
6		70.000	110498
7		100.000	146719

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

62) 4-Bromophenyl phenyl ether ( )

Ret. Time 11.52 min., Extract & Integrate from 11.22 to 11.82 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	248.00			*** METH DEFAULT ***
Q1	250.00	98.70	20.0	*** METH DEFAULT ***
Q2	141.10	80.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6215
2		4.000	13073
3		10.000	29938
4		25.000	75856
5		50.000	165866
6		70.000	230291
7		100.000	301973

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

63) Hexachlorobenzene ( )

Ret. Time 11.74 min., Extract & Integrate from 11.44 to 12.04 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	283.80			*** METH DEFAULT ***
Q1	141.90	42.80	20.0	*** METH DEFAULT ***
Q2	248.90	34.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6736
2		4.000	13807
3		10.000	32192
4		25.000	78885
5		50.000	173139
6		70.000	237113
7		100.000	314663

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

64) Pentachlorophenol ( )

Ret. Time 11.96 min., Extract & Integrate from 11.66 to 12.26 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	265.90			*** METH DEFAULT ***
Q1	263.90	64.10	20.0	*** METH DEFAULT ***
Q2	267.90	63.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		8.000	15073
3		20.000	39389
4		50.000	108625
5		100.000	240473
6		140.000	340528
7		200.000	451713

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

65) Phenanthrene ( )

Ret. Time 12.19 min., Extract & Integrate from 11.89 to 12.49 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	178.10			*** METH DEFAULT ***
Q1	179.10	15.60	20.0	*** METH DEFAULT ***
Q2	176.10	18.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	34533
2		4.000	69663
3		10.000	161896
4		25.000	409982
5		50.000	863568
6		70.000	1202977
7		100.000	1566533

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

66) Anthracene ( )

Ret. Time 12.25 min., Extract & Integrate from 11.95 to 12.55 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	178.10			*** METH DEFAULT ***
Q1	176.10	18.30	20.0	*** METH DEFAULT ***

Q2	179.10	15.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	32086
2		4.000	66940
3		10.000	158813
4		25.000	405658
5		50.000	860203
6		70.000	1195619
7		100.000	1565563

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

67) Carbazole ( )

Ret. Time 12.46 min., Extract & Integrate from 12.16 to 12.76 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	167.10			*** METH DEFAULT ***
Q1	166.10	21.50	20.0	*** METH DEFAULT ***
Q2	139.10	13.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27290
2		4.000	53658
3		10.000	96117
4		25.000	143545
5		50.000	412577
6		70.000	775435
7		100.000	1196277

Qualifier Peak Analysis ON
Curve Fit: Quadratic

---

68) Di-n-butylphthalate ( )

Ret. Time 12.98 min., Extract & Integrate from 12.68 to 13.28 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	150.10	9.10	20.0	*** METH DEFAULT ***
Q2	104.00	5.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	32778
2		4.000	72554
3		10.000	180956
4		25.000	462104
5		50.000	998221
6		70.000	1363446
7		100.000	1786508

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

69) Fluoranthene ( )

Ret. Time 14.04 min., Extract & Integrate from 13.74 to 14.34 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	202.10			*** METH DEFAULT ***
Q1	101.00	8.40	20.0	*** METH DEFAULT ***
Q2	203.10	17.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27173
2		4.000	57212
3		10.000	137046

4	25.000	365275
5	50.000	746526
6	70.000	1052820
7	100.000	1378775

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

70) Chrysene-d12 (ISTD TR)

Ret. Time 16.79 min., Extract & Integrate from 16.49 to 17.09 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	240.20			*** METH DEFAULT ***
Q1	120.10	8.80	20.0	*** METH DEFAULT ***
Q2	236.20	25.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	344813
2		40.000	343966
3		40.000	319780
4		40.000	330836
5		40.000	304961
6		40.000	335336
7		40.000	310337

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

71) Benzidine ( )

Ret. Time 14.22 min., Extract & Integrate from 13.92 to 14.52 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	184.10			*** METH DEFAULT ***
Q1	92.10	6.20	20.0	*** METH DEFAULT ***
Q2	185.10	14.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		4.000	13622
2		8.000	39459
3		20.000	94014
4		50.000	224306
5		100.000	370877
6		140.000	547251
7		200.000	760629

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

72) Pyrene ( )

Ret. Time 14.44 min., Extract & Integrate from 14.14 to 14.74 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	202.10			*** METH DEFAULT ***
Q1	200.10	20.20	20.0	*** METH DEFAULT ***
Q2	203.10	18.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27600
2		4.000	58878
3		10.000	136734
4		25.000	359169
5		50.000	713009
6		70.000	1031949
7		100.000	1327467

Qualifier Peak Analysis ON

Curve Fit: Avg. RF

---

73) Terphenyl-d14 ( )

Ret. Time 14.69 min., Extract & Integrate from 14.39 to 14.99 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	244.20			*** METH DEFAULT ***
Q1	122.10	8.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	17730
2		4.000	37099
3		10.000	88893
4		25.000	231117
5		50.000	464646
6		70.000	670040
7		100.000	875501

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

74) Butylbenzylphthalate ( )

Ret. Time 15.65 min., Extract & Integrate from 15.35 to 15.95 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	91.10	74.20	20.0	*** METH DEFAULT ***
Q2	206.10	23.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12726
2		4.000	24348
3		10.000	60753
4		25.000	163761
5		50.000	330432
6		70.000	467391
7		100.000	608819

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

75) 3,3'-Dichlorobenzidine ( )

Ret. Time 16.71 min., Extract & Integrate from 16.41 to 17.01 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	254.10	65.80	20.0	*** METH DEFAULT ***
Q2	126.10	10.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		4.000	10668
2		8.000	18752
3		20.000	43247
4		50.000	92395
5		100.000	210687
6		140.000	409501
7		200.000	556137

Qualifier Peak Analysis ON
Curve Fit: Quadratic

---

76) Benz(a)anthracene ( )

Ret. Time 16.76 min., Extract & Integrate from 16.46 to 17.06 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	229.10	19.80	20.0	*** METH DEFAULT ***
Q2	226.10	25.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	19795
2		4.000	38548
3		10.000	91312
4		25.000	242686
5		50.000	449645
6		70.000	694686
7		100.000	919735

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

77) Chrysene ( )

Ret. Time 16.85 min., Extract & Integrate from 16.55 to 17.15 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	226.10	28.50	20.0	*** METH DEFAULT ***
Q2	229.10	19.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	19239
2		4.000	37385
3		10.000	87142
4		25.000	226179
5		50.000	410701
6		70.000	635508
7		100.000	843554

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

78) Bis(2-ethylhexyl)phthalate ( )

Ret. Time 16.87 min., Extract & Integrate from 16.57 to 17.17 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	167.10	31.30	20.0	*** METH DEFAULT ***
Q2	279.20	7.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	14646
2		4.000	31411
3		10.000	79999
4		25.000	214448
5		50.000	439941
6		70.000	617338
7		100.000	823207

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

79) Mirex ( )

Ret. Time 17.66 min., Extract & Integrate from 17.36 to 17.96 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	271.80			*** METH DEFAULT ***
Q1	236.90	59.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	1489

2	2.000	3443
3	5.000	8800
4	12.500	22762
5	25.000	47551
6	35.000	67540
7	50.000	88570

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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80) Perylene-d12 (ISTD)

Ret. Time 19.91 min., Extract & Integrate from 19.61 to 20.21 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	264.20			*** METH DEFAULT ***
Q1	260.20	22.10	20.0	*** METH DEFAULT ***
Q2	265.20	20.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	193306
2		40.000	189472
3		40.000	177692
4		40.000	169785
5		40.000	143248
6		40.000	176484
7		40.000	178531

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

81) Di-n-octylphthalate ( )

Ret. Time 18.14 min., Extract & Integrate from 17.84 to 18.44 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	150.00	9.80	20.0	*** METH DEFAULT ***
Q2	167.10	1.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	18093
2		4.000	37199
3		10.000	104181
4		25.000	300605
5		50.000	610160
6		70.000	899004
7		100.000	1215079

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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82) Benzo(b)fluoranthene ( )

Ret. Time 19.01 min., Extract & Integrate from 18.71 to 19.31 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	22.10	20.0	*** METH DEFAULT ***
Q2	125.10	7.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15261
2		4.000	25417
3		10.000	58718
4		25.000	152671
5		50.000	272375
6		70.000	458870
7		100.000	654267

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

83) Benzo(k)fluoranthene ( )

Ret. Time 19.07 min., Extract & Integrate from 18.77 to 19.37 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	21.50	20.0	*** METH DEFAULT ***
Q2	125.10	7.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15216
2		4.000	25575
3		10.000	60292
4		25.000	147573
5		50.000	253868
6		70.000	427628
7		100.000	610855

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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84) Benzo(a)pyrene ( )

Ret. Time 19.78 min., Extract & Integrate from 19.48 to 20.08 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	22.70	20.0	*** METH DEFAULT ***
Q2	125.10	9.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	11661
2		4.000	19482
3		10.000	47458
4		25.000	120920
5		50.000	209373
6		70.000	367054
7		100.000	535265

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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85) Indeno(1,2,3-c,d)pyrene ( )

Ret. Time 23.07 min., Extract & Integrate from 22.77 to 23.37 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.10	17.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	8946
2		4.000	15521
3		10.000	38413
4		25.000	92191
5		50.000	158292
6		70.000	311567
7		100.000	488879

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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86) Dibenz(a,h)anthracene ( )

Ret. Time 23.12 min., Extract & Integrate from 22.82 to 23.42 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	278.10			*** METH DEFAULT ***
Q1	139.10	15.10	20.0	*** METH DEFAULT ***
Q2	279.10	23.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	7378
2		4.000	13761
3		10.000	33516
4		25.000	79976
5		50.000	136988
6		70.000	267090
7		100.000	419877

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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87) Benzo(g,h,i)perylene ( )

Ret. Time 24.00 min., Extract & Integrate from 23.70 to 24.30 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.10	17.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	7032
2		4.000	13267
3		10.000	32402
4		25.000	76058
5		50.000	129881
6		70.000	255452
7		100.000	404725

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Wed Dec 27 09:48:39 2006

Injection Log

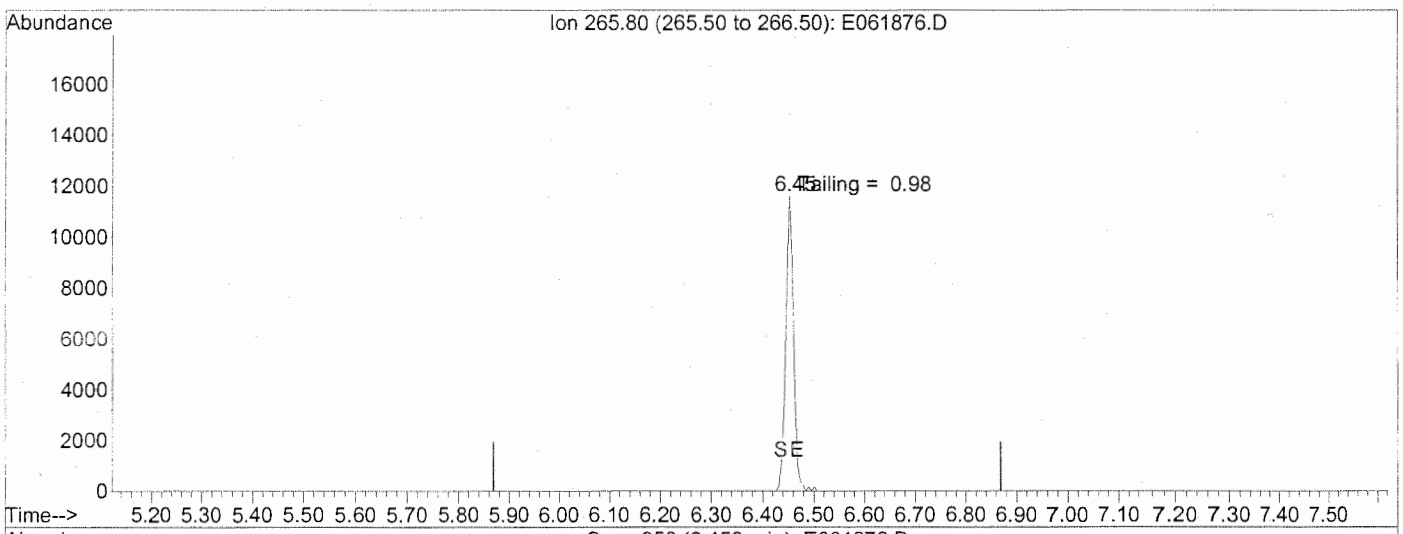
Directory: C:\MSDCHEM\1\DATA\E061226

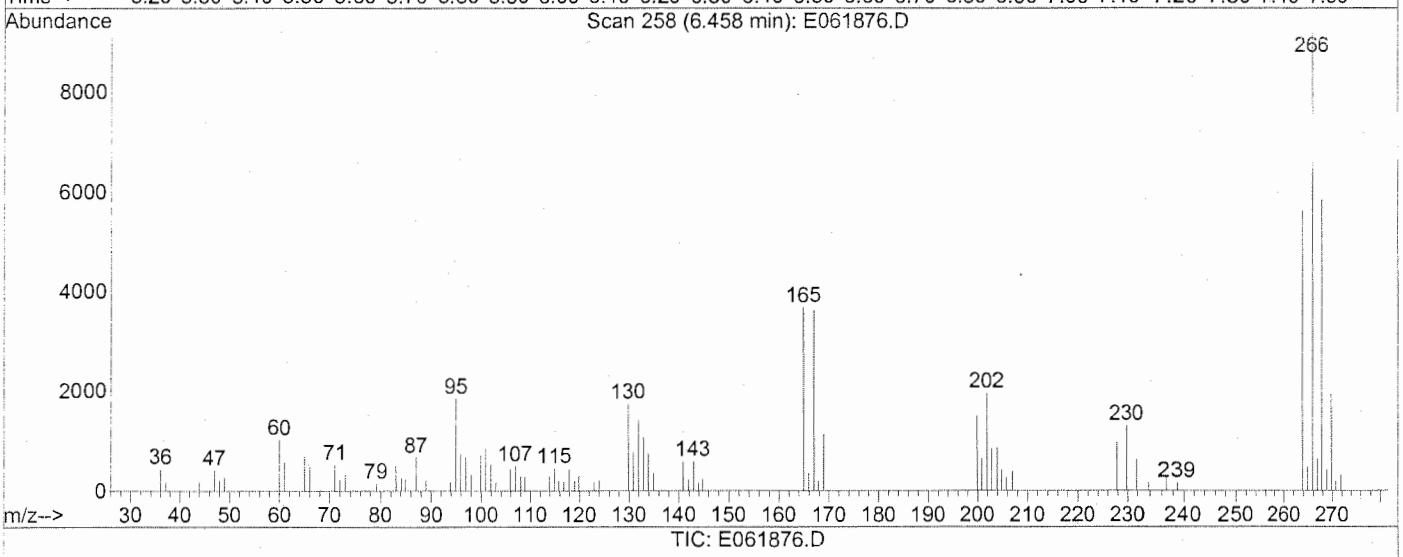
Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E061876.d	1.	STUN1226		26 Dec 2006 13:16
2	2	E061877.d	1.	50PPM 8270 CCV		26 Dec 2006 13:32
3	3	E061878.d	1.	50PPM 8270 CCV		26 Dec 2006 14:05
4	4	E061879.d	1.	2PPM 8270 79-4		26 Dec 2006 14:51
5	5	E061880.d	1.	4PPM 8270 79-5		26 Dec 2006 15:23
6	6	E061881.d	1.	10PPM 8270 79-6		26 Dec 2006 15:56
7	7	E061882.d	1.	25PPM 8270 79-7		26 Dec 2006 16:28
8	8	E061883.d	1.	50PPM 8270 79-8		26 Dec 2006 17:01
9	9	E061884.d	1.	70PPM 8270 79-9		26 Dec 2006 17:33
10	10	E061885.d	1.	100PPM 8270 79-10		26 Dec 2006 18:05
11	11	E061886.d	1.	50PPM 8270 ICV 79-11		26 Dec 2006 18:38
12	12	E061887.d	1.	25 PPM 8270 CCV		26 Dec 2006 19:10
13	13	E061888.d	1.	MB 8270S 12/20/06		26 Dec 2006 19:42
14	14	E061889.d	1.	LCS 8270S 12/20/06		26 Dec 2006 20:14
15	15	E061890.d	1.	D0602087-001 1/2 8270S 12/2...		26 Dec 2006 20:47
16	16	E061891.d	1.	D0602087-002 1/2 8270S 12/2...		26 Dec 2006 21:19
17	17	E061892.d	1.	D0602087-003 1/2 8270S 12/2...		26 Dec 2006 21:51
18	18	E061893.d	1.	D0602087-004 1/2 8270S 12/2...		26 Dec 2006 22:24
19	19	E061894.d	1.	D0602087-005 1/2 8270S 12/2...		26 Dec 2006 22:56
20	20	E061895.d	1.	D0602087-006 1/2 8270S 12/2...		26 Dec 2006 23:29
21	21	E061896.d	1.	D0602087-008 1/2 8270S 12/2...		27 Dec 2006 00:01
22	22	E061897.d	1.	D0602087-009 1/2 8270S 12/2...		27 Dec 2006 00:33
23	23	E061898.d	1.	D0602087-010 1/2 8270S 12/2...		27 Dec 2006 01:05

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061876.D Vial: 1
Acq On : 26 Dec 2006 1:16 pm Operator: SC
Sample : STUN1226 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Dec 27 16:03 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061876.D

(1) Pentachlorophenol

6.46min 0.00

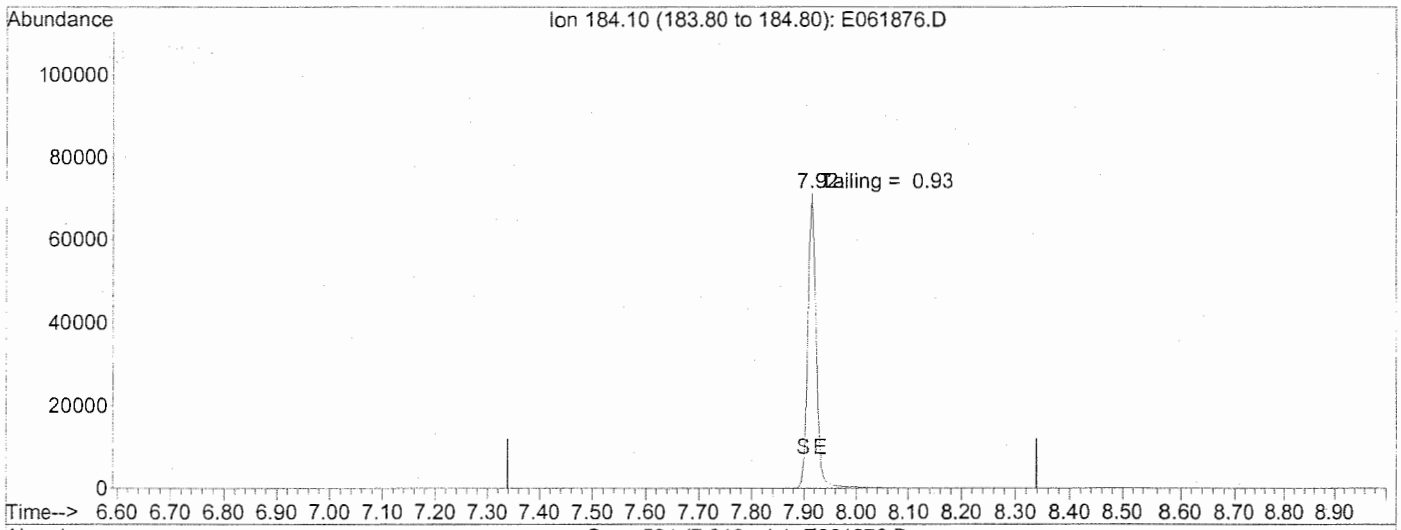
response 124253

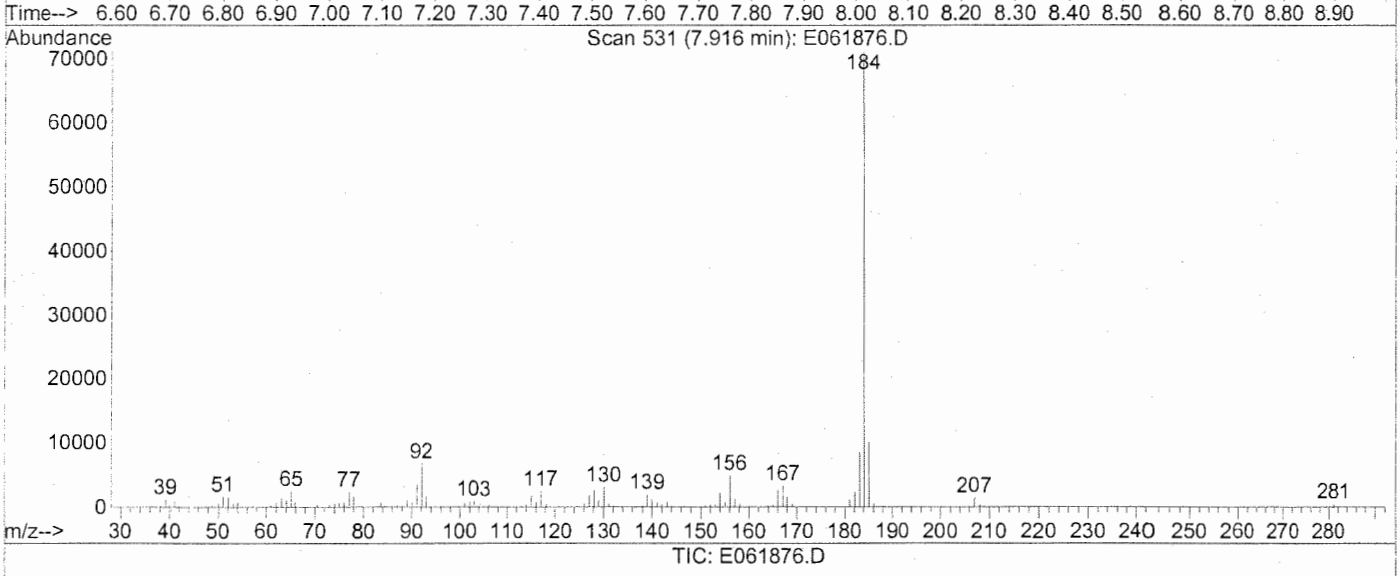
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061876.D Vial: 1
Acq On : 26 Dec 2006 1:16 pm Operator: SC
Sample : STUN1226 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Dec 27 16:03 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061876.D

(2) Benzidine

7.92min 0.00

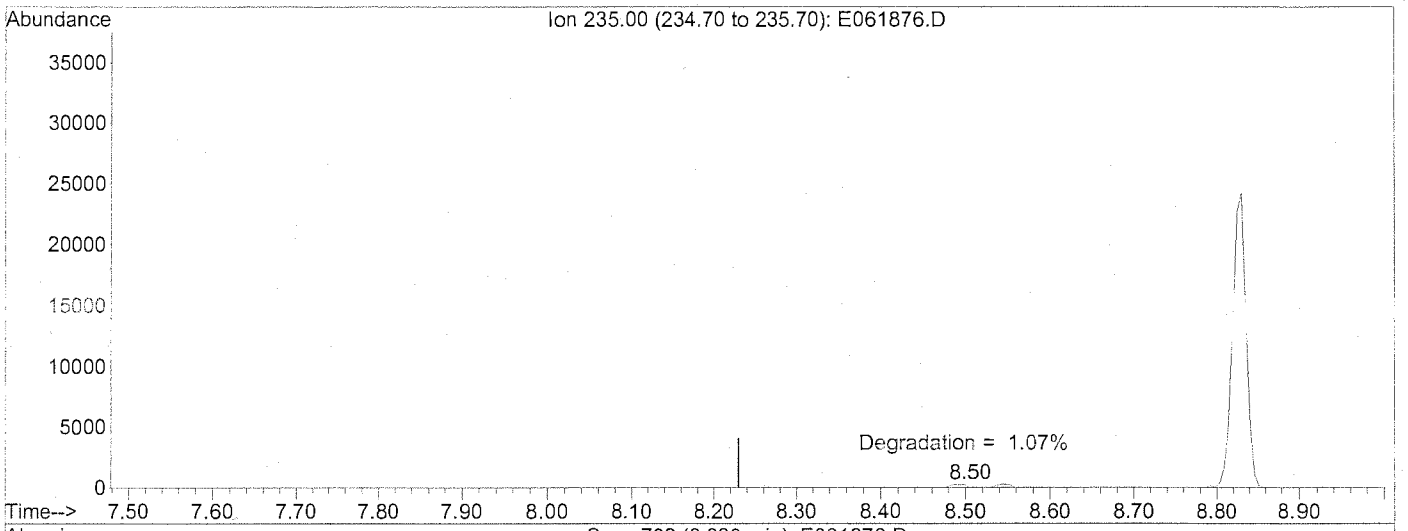
response 781489

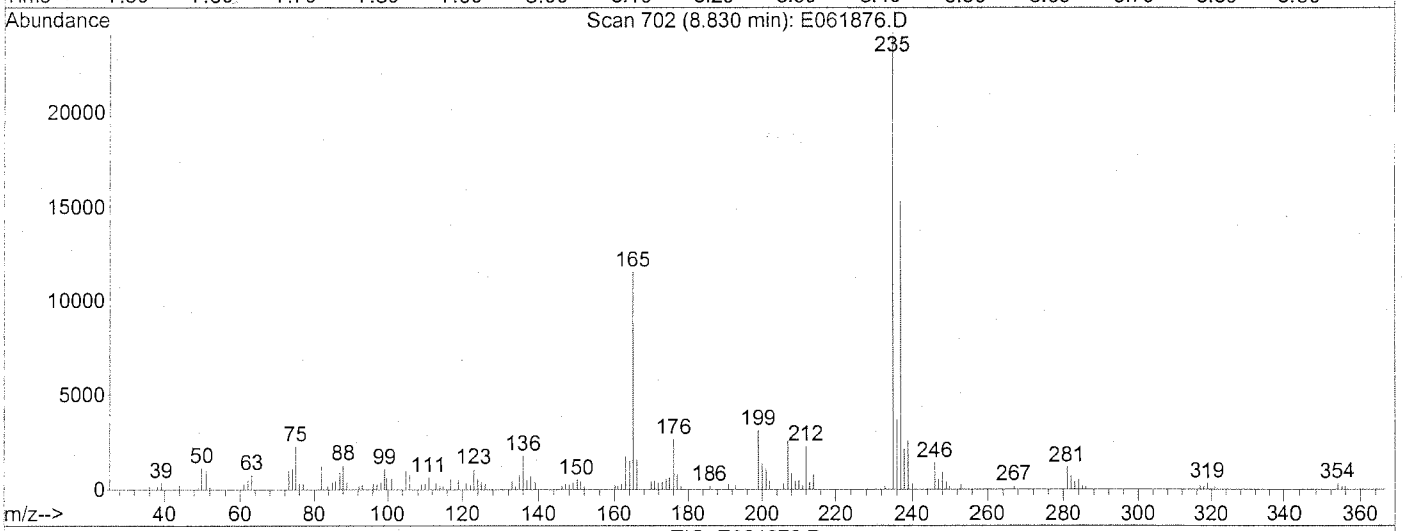
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061876.D Vial: 1
Acq On : 26 Dec 2006 1:16 pm Operator: SC
Sample : STUN1226 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Dec 27 16:03 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061876.D

(4) 4,4-DDT

8.83min 0.00

response 283773

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:06:25 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	194464	40.00	mg/L	0.00
22) Naphthalene-d8	8.01	136	768067	40.00	mg/L	0.00
37) Acenaphthene-d10	10.26	164	414550	40.00	mg/L	0.00
57) Phenanthrene-d10	12.15	188	610431	40.00	mg/L	0.00
70) Chrysene-d12	16.80	240	344813	40.00	mg/L	0.00
80) Perylene-d12	19.92	264	193306	40.00	mg/L	0.01
System Monitoring Compounds						
6) 2-Fluorophenol	4.72	112	11936	1.90	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.80%		
7) Phenol-d5	5.86	99	15767	1.95	mg/L	-0.02
Spiked Amount 50.000			Recovery =	3.90%		
23) Nitrobenzene-d5	7.10	82	12305	1.85	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.70%		
41) 2-Fluorobiphenyl	9.38	172	26079	2.01	mg/L	0.00
Spiked Amount 50.000			Recovery =	4.02%		
61) 2,4,6-Tribromophenol	11.26	330	2513	1.63	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.26%		
73) Terphenyl-d14	14.69	244	17730	1.69	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.38%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.03	88	5711	2.00	mg/L #	60
3) N-Nitrosodimethylamine	3.37	42	7576	2.06	mg/L	86
4) Pyridine	3.41	79	14992	2.02	mg/L #	49
5) PGMEA	4.64	43	27425	2.09	mg/L #	87
8) Phenol	5.88	94	16573	1.96	mg/L	93
9) Aniline	5.96	93	17230	1.70	mg/L	98
10) Bis(2-chloroethyl)ether	6.02	93	14191	2.06	mg/L	92
11) 2-Chlorophenol	6.12	128	14116	1.94	mg/L	97
12) 1,3-Dichlorobenzene	6.31	146	16136	2.06	mg/L	99
13) 1,4-Dichlorobenzene	6.37	146	16479m	2.08	mg/L	
14) Benzyl alcohol	6.52	108	8738	1.87	mg/L #	73
15) 1,2-Dichlorobenzene	6.62	146	15041	2.02	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.59	99	8347	1.79	mg/L	97
17) 2-Methylphenol	6.66	108	12428	1.97	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.73	45	27369	2.10	mg/L #	78
19) 4-Methylphenol	6.84	107	15197	1.88	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.90	70	8945	1.86	mg/L #	75
21) Hexachloroethane	7.03	117	5728	1.94	mg/L #	78
24) Nitrobenzene	7.12	77	13447	1.96	mg/L #	79
25) Isophorone	7.41	82	22775	1.81	mg/L	92
26) 2-Nitrophenol	7.54	139	6609	1.75	mg/L #	83
27) 2,4-Dimethylphenol	7.54	122	12088	1.91	mg/L #	82
28) Benzoic acid	7.62	122	30756m	1.40	mg/L	
29) Bis(2-chloroethoxy)methane	7.67	93	15226	1.97	mg/L	89
30) 2,4-Dichlorophenol	7.82	162	10016	1.86	mg/L	98
31) 1,2,4-Trichlorobenzene	7.95	180	11256	1.99	mg/L	99
32) Naphthalene	8.04	128	40434	2.03	mg/L	98
33) 4-Chloroaniline	8.10	127	12107	1.53	mg/L	94
34) Hexachlorobutadiene	8.25	225	5873	1.95	mg/L	97
35) 4-Chloro-3-methylphenol	8.69	107	9438	1.67	mg/L	88
36) 2-Methylnaphthalene	8.91	142	26638	1.95	mg/L	99
38) Hexachlorocyclopentadiene	9.19	237	6159	1.82	mg/L	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:06:25 2006 Quant Results File: BA061226.RES

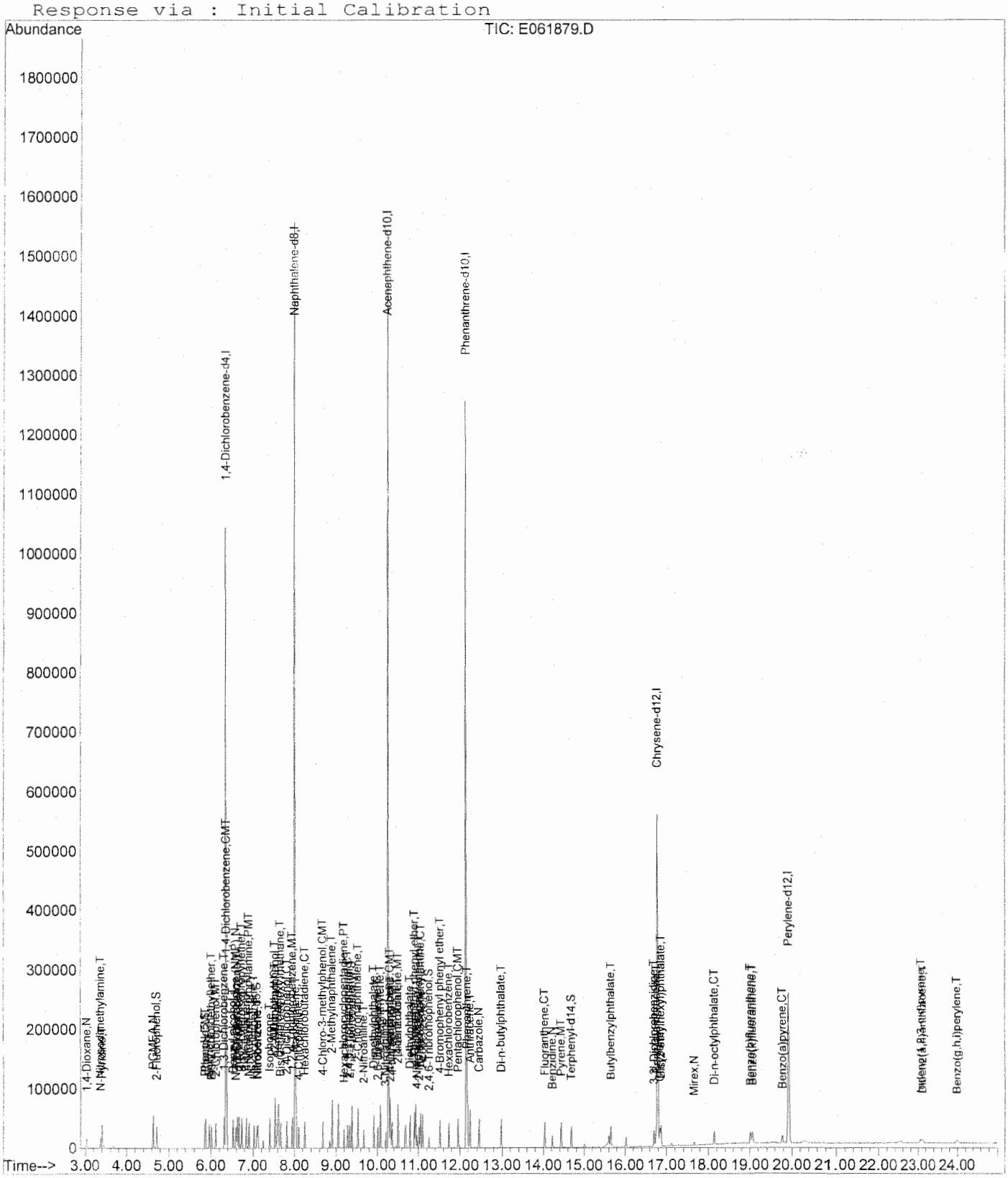
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	6205	1.77	mg/L		99
40)	2,4,5-Trichlorophenol	9.33	196	6791	1.79	mg/L		97
42)	2-Chloronaphthalene	9.53	162	23257	2.00	mg/L		98
43)	2-Nitroaniline	9.68	65	6219	1.66	mg/L		96
44)	Dimethylphthalate	9.92	163	24535	1.90	mg/L		96
45)	Acenaphthylene	10.07	152	36383	1.91	mg/L		99
46)	2,6-Dinitrotoluene	10.02	165	5290	1.70	mg/L		94
47)	3-Nitroaniline	10.19	138	4871	1.80	mg/L		[illegible]
48)	Acenaphthene	10.30	154	24496	1.87	mg/L		[illegible]
49)	2,4-Dinitrophenol	10.32	184	4155	1.14	mg/L	#	1
50)	4-Nitrophenol	10.35	109	4717	1.54	mg/L	#	36
51)	Dibenzofuran	10.50	168	32495	1.99	mg/L		95
52)	2,4-Dinitrotoluene	10.51	165	6748	1.69	mg/L	#	[illegible]
53)	Fluorene	10.93	166	25960	1.94	mg/L		99
54)	Diethylphthalate	10.80	149	24815	1.89	mg/L		96
55)	4-Chlorophenyl phenyl ethe	10.90	204	11124	1.93	mg/L		94
56)	4-Nitroaniline	10.97	138	4501	1.89	mg/L	#	86
58)	2-Methyl-4,6-dinitrophenol	11.02	198	5882	1.35	mg/L	#	82
59)	N-Nitrosodiphenylamine	11.05	169	17698	2.06	mg/L		99
60)	Azobenzene	11.10	77	24527	1.95	mg/L		[illegible]
62)	4-Bromophenyl phenyl ether	11.52	248	6215	1.91	mg/L		[illegible]
63)	Hexachlorobenzene	11.74	284	6736	1.98	mg/L		95
64)	Pentachlorophenol	11.96	266	6805	1.44	mg/L		97
65)	Phenanthrene	12.19	178	34533	2.04	mg/L		99
66)	Anthracene	12.24	178	32086	1.90	mg/L		99
67)	Carbazole	12.45	167	27290	3.37	mg/L		97
68)	Di-n-butylphthalate	12.98	149	32778	1.67	mg/L		99
69)	Fluoranthene	14.03	202	27173	1.85	mg/L	#	93
71)	Benzidine	14.22	184	13622	1.62	mg/L	#	95
72)	Pyrene	14.44	202	27600	1.71	mg/L		99
74)	Butylbenzylphthalate	15.65	149	12726	1.70	mg/L	#	92
75)	3,3'-Dichlorobenzidine	16.71	252	10668	2.24	mg/L	#	97
76)	Benz(a)anthracene	16.76	228	19795	1.95	mg/L		98
77)	Chrysene	16.84	228	19239	2.07	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	16.87	149	14646	1.47	mg/L		99
79)	Mirex	17.67	272	1489	1.38	mg/L		97
81)	Di-n-octylphthalate	18.15	149	18093	1.10	mg/L		100
82)	Benzo(b)fluoranthene	19.01	252	15261	2.08	mg/L	#	94
83)	Benzo(k)fluoranthene	19.07	252	15216	2.22	mg/L	#	94
84)	Benzo(a)pyrene	19.77	252	11661	2.06	mg/L	#	90
85)	Indeno(1,2,3-c,d)pyrene	23.06	276	8946	2.09	mg/L	#	92
86)	Dibenz(a,h)anthracene	23.12	278	7378	2.00	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.99	276	7032	2.01	mg/L	#	64

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:07 2006 Quant Results File: BA061226.RES

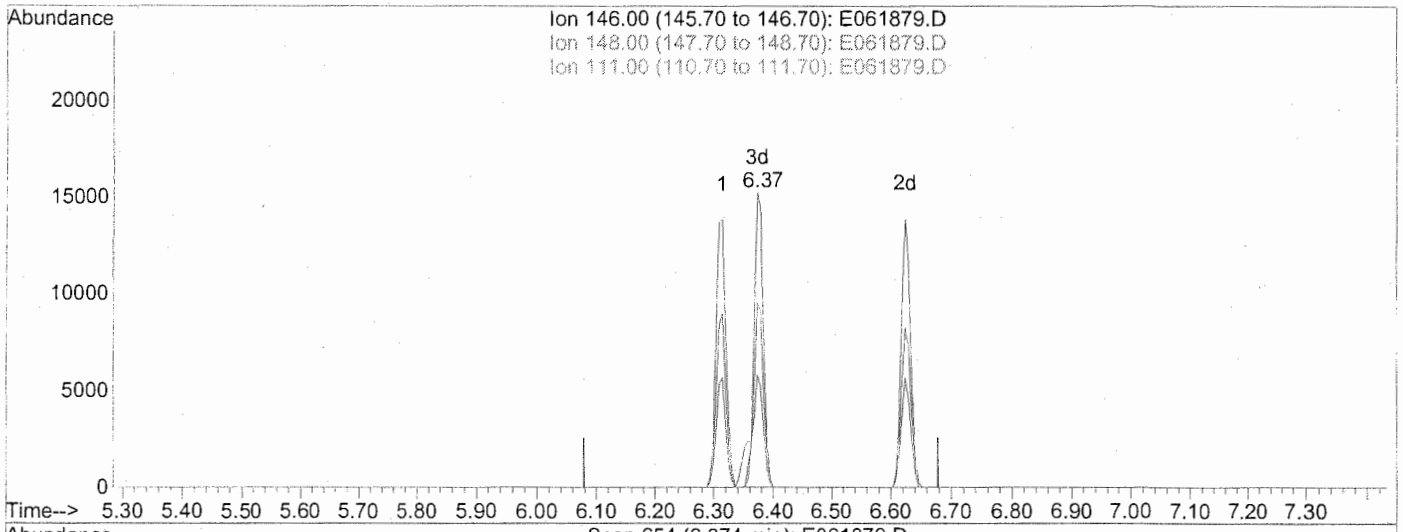
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration

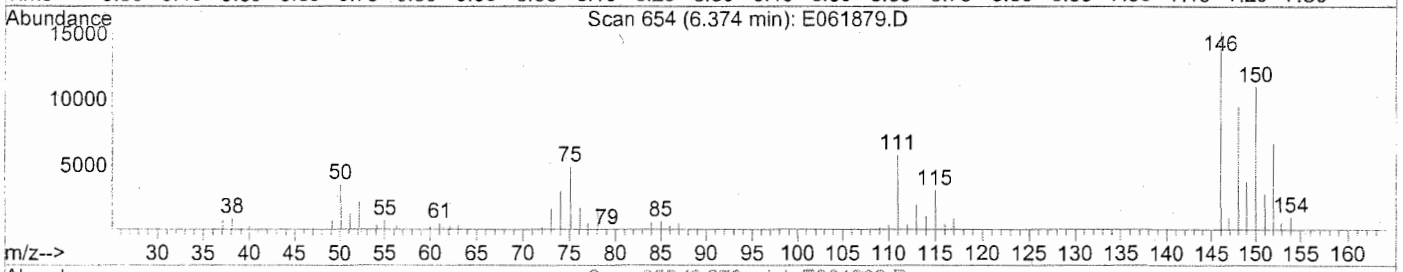


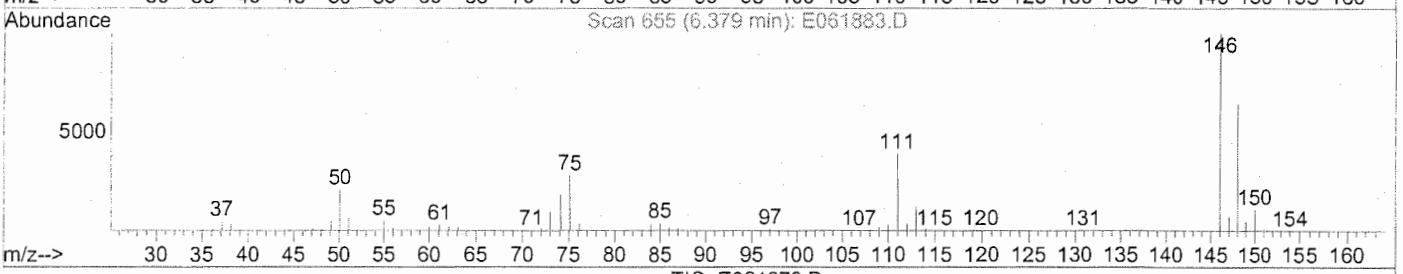
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Single Level Calibration







TIC: E061879.D

(13) 1,4-Dichlorobenzene (CMT)

6.37min 2.08mg/L m

response 16479

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	61.24
111.00	38.30	38.68
0.00	0.00	0.00

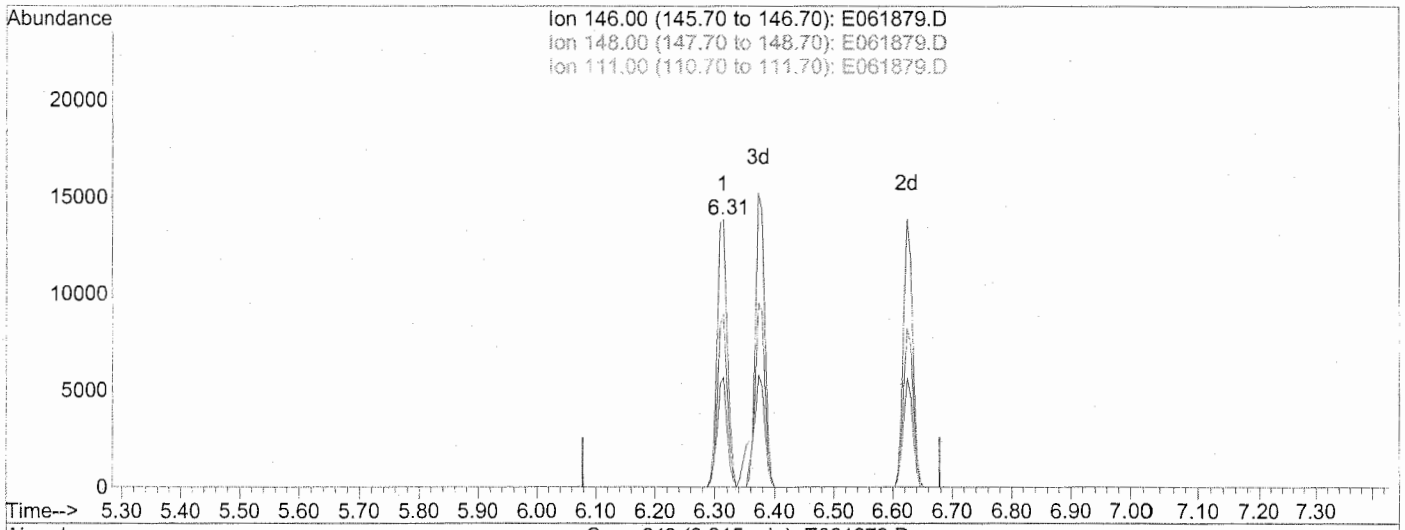
Using peak

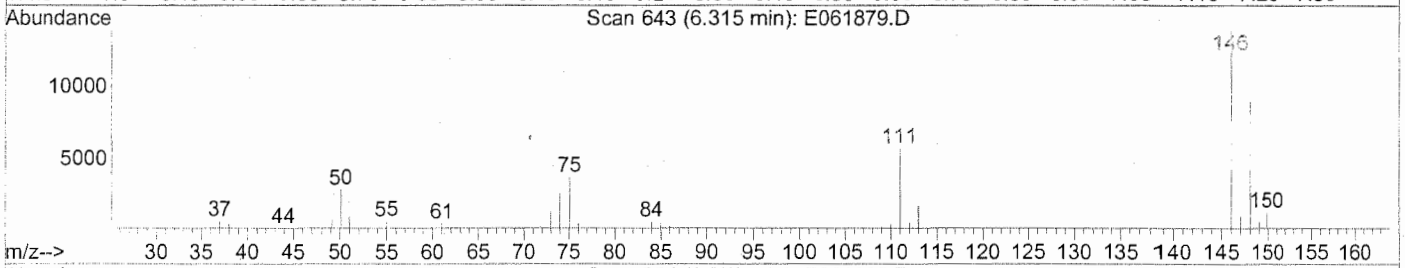
ch 1/8/07 in 12/27/06

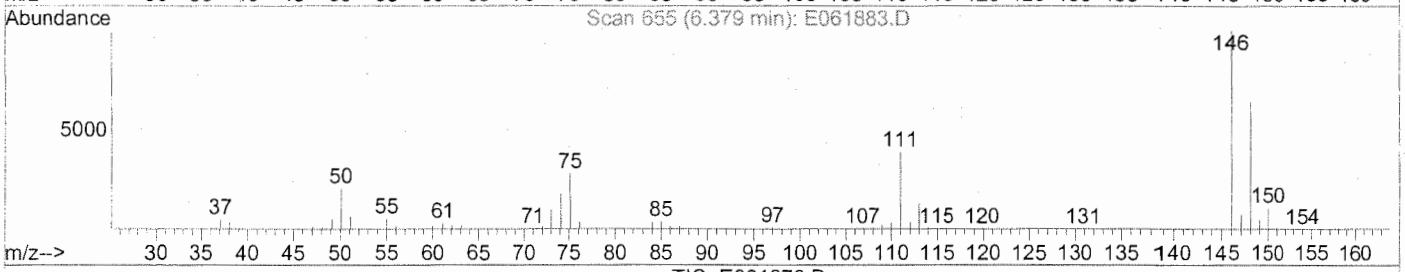
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Single Level Calibration







TIC: E061879.D

(13) 1,4-Dichlorobenzene (CMT)

6.31min 2.04mg/L

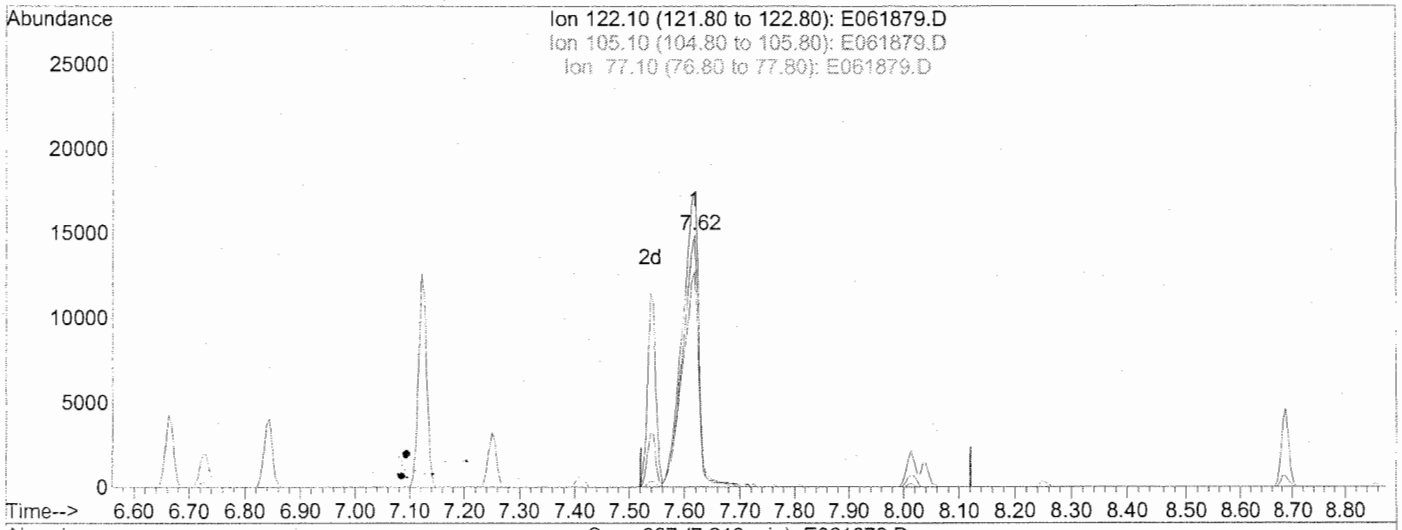
response 16136

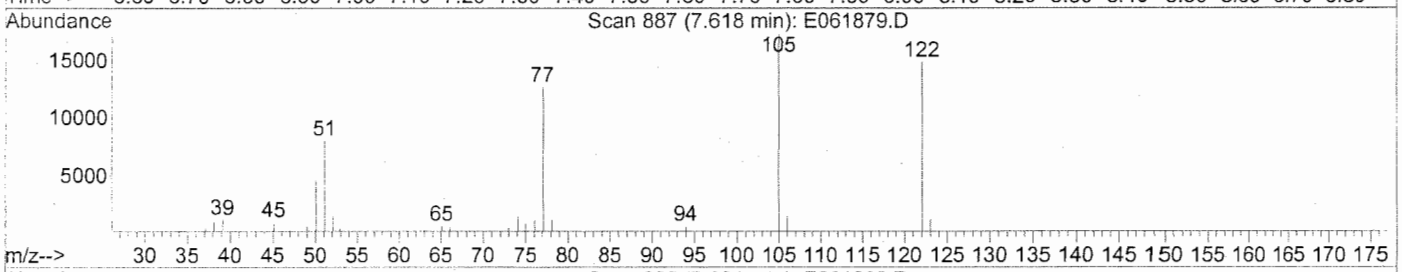
Ion	Exp%	Act%
146.00	100	100
148.00	64.40	62.54
111.00	38.30	39.50
0.00	0.00	0.00

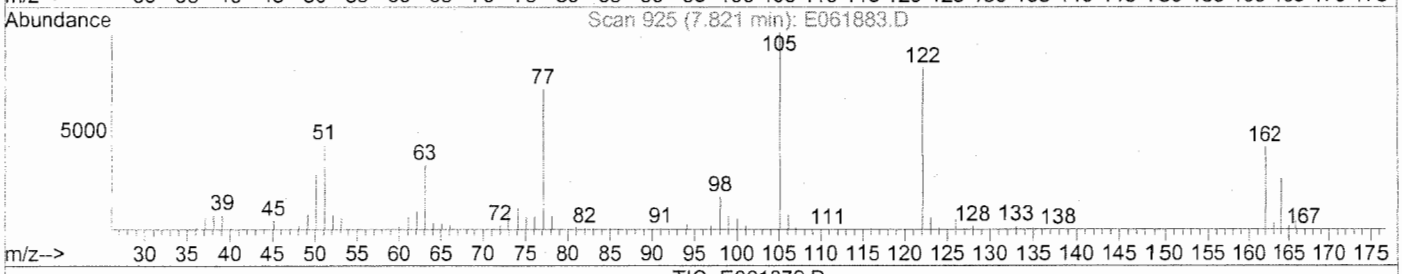
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:07 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Single Level Calibration







TIC: E061879.D

(28) Benzoic acid (T)

7.62min 1.40mg/L m

response 30756

Ion	Exp%	Act%
122.10	100	100
105.10	137.70	119.87
77.10	112.30	85.57#
0.00	0.00	0.00

Baseline

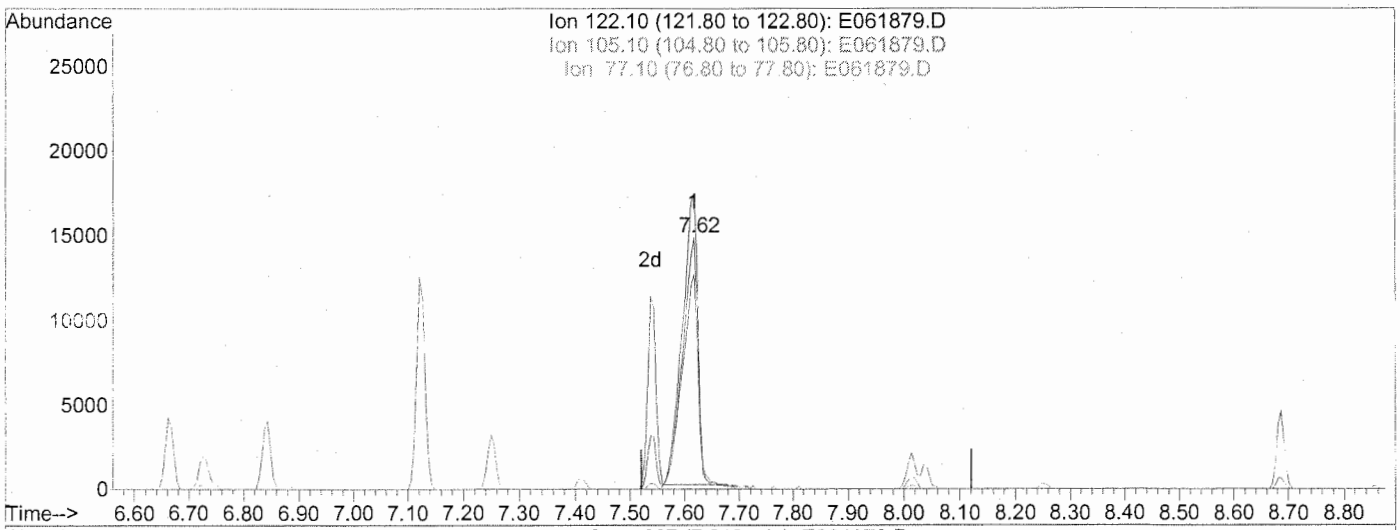
12/27/06

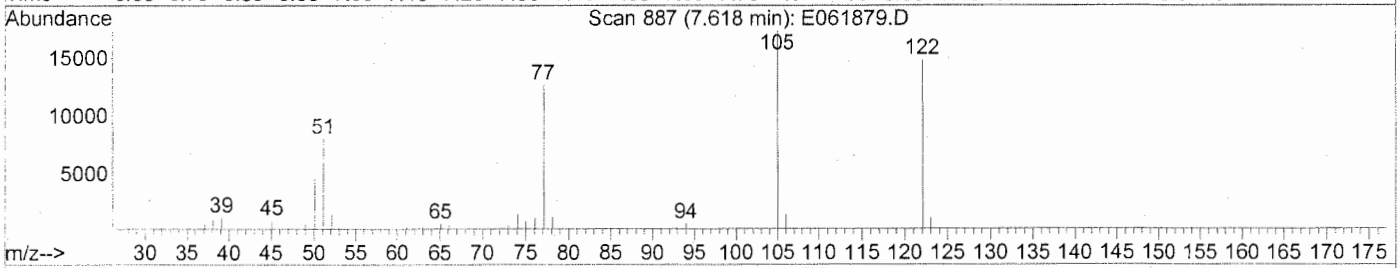
1/2/07

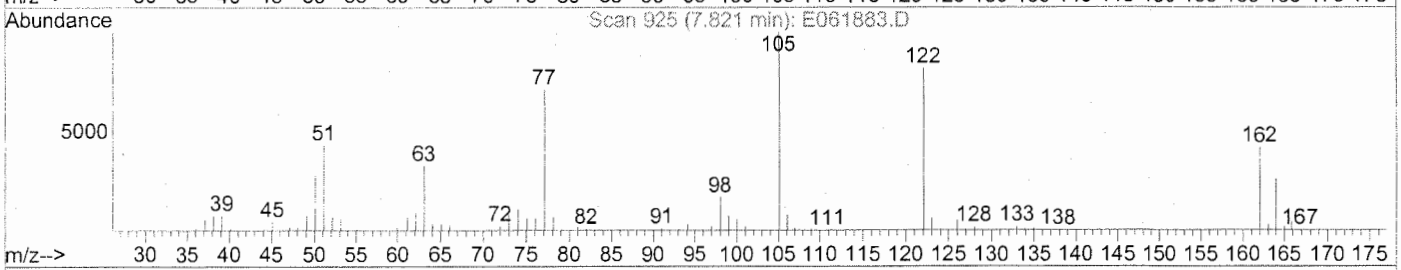
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Single Level Calibration







TIC: E061879.D

(28) Benzoic acid (T)

7.62min 1.30mg/L

response 28727

Ion	Exp%	Act%
122.10	100	100
105.10	137.70	128.34
77.10	112.30	91.61
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:06:25 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	194464	40.00	mg/L	0.00
22) Naphthalene-d8	8.01	136	768067	40.00	mg/L	0.00
37) Acenaphthene-d10	10.26	164	414550	40.00	mg/L	0.00
57) Phenanthrene-d10	12.15	188	610431	40.00	mg/L	0.00
70) Chrysene-d12	16.80	240	344813	40.00	mg/L	0.00
80) Perylene-d12	19.92	264	193306	40.00	mg/L	0.01
System Monitoring Compounds						
6) 2-Fluorophenol	4.72	112	11936	1.90	mg/L	0.02
Spiked Amount 50.000			Recovery = 3.80%			
7) Phenol-d5	5.86	99	15767	1.95	mg/L	-0.02
Spiked Amount 50.000			Recovery = 3.90%			
23) Nitrobenzene-d5	7.10	82	12305	1.85	mg/L	0.00
Spiked Amount 50.000			Recovery = 3.70%			
41) 2-Fluorobiphenyl	9.38	172	26079	2.01	mg/L	0.00
Spiked Amount 50.000			Recovery = 4.02%			
61) 2,4,6-Tribromophenol	11.26	330	2513	1.63	mg/L	0.00
Spiked Amount 50.000			Recovery = 3.26%			
73) Terphenyl-d14	14.69	244	17730	1.69	mg/L	0.00
Spiked Amount 50.000			Recovery = 3.38%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.03	88	5711	2.00	mg/L #	60
3) N-Nitrosodimethylamine	3.37	42	7576	2.06	mg/L	86
4) Pyridine	3.41	79	14992	2.02	mg/L #	49
5) PGMEA	4.64	43	27425	2.09	mg/L #	87
8) Phenol	5.88	94	16573	1.96	mg/L	93
9) Aniline	5.96	93	17230	1.70	mg/L	98
10) Bis(2-chloroethyl)ether	6.02	93	14191	2.06	mg/L	92
11) 2-Chlorophenol	6.12	128	14116	1.94	mg/L	97
12) 1,3-Dichlorobenzene	6.31	146	16136	2.06	mg/L	99
13) 1,4-Dichlorobenzene	6.31	146	16136	2.04	mg/L	98
14) Benzyl alcohol	6.52	108	8738	1.87	mg/L #	73
15) 1,2-Dichlorobenzene	6.62	146	15041	2.02	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.59	99	8347	1.79	mg/L	97
17) 2-Methylphenol	6.66	108	12428	1.97	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.73	45	27369	2.10	mg/L #	78
19) 4-Methylphenol	6.84	107	15197	1.88	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.90	70	8945	1.86	mg/L #	75
21) Hexachloroethane	7.03	117	5728	1.94	mg/L #	78
24) Nitrobenzene	7.12	77	13447	1.96	mg/L #	79
25) Isophorone	7.41	82	22775	1.81	mg/L	92
26) 2-Nitrophenol	7.54	139	6609	1.75	mg/L #	83
27) 2,4-Dimethylphenol	7.54	122	12088	1.91	mg/L #	82
28) Benzoic acid	7.62	122	28727	1.30	mg/L	87
29) Bis(2-chloroethoxy)methane	7.67	93	15226	1.97	mg/L	89
30) 2,4-Dichlorophenol	7.82	162	10016	1.86	mg/L	98
31) 1,2,4-Trichlorobenzene	7.95	180	11256	1.99	mg/L	99
32) Naphthalene	8.04	128	40434	2.03	mg/L	98
33) 4-Chloroaniline	8.10	127	12107	1.53	mg/L	94
34) Hexachlorobutadiene	8.25	225	5873	1.95	mg/L	97
35) 4-Chloro-3-methylphenol	8.69	107	9438	1.67	mg/L	88
36) 2-Methylnaphthalene	8.91	142	26638	1.95	mg/L	99
38) Hexachlorocyclopentadiene	9.19	237	6159	1.82	mg/L	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:06:25 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

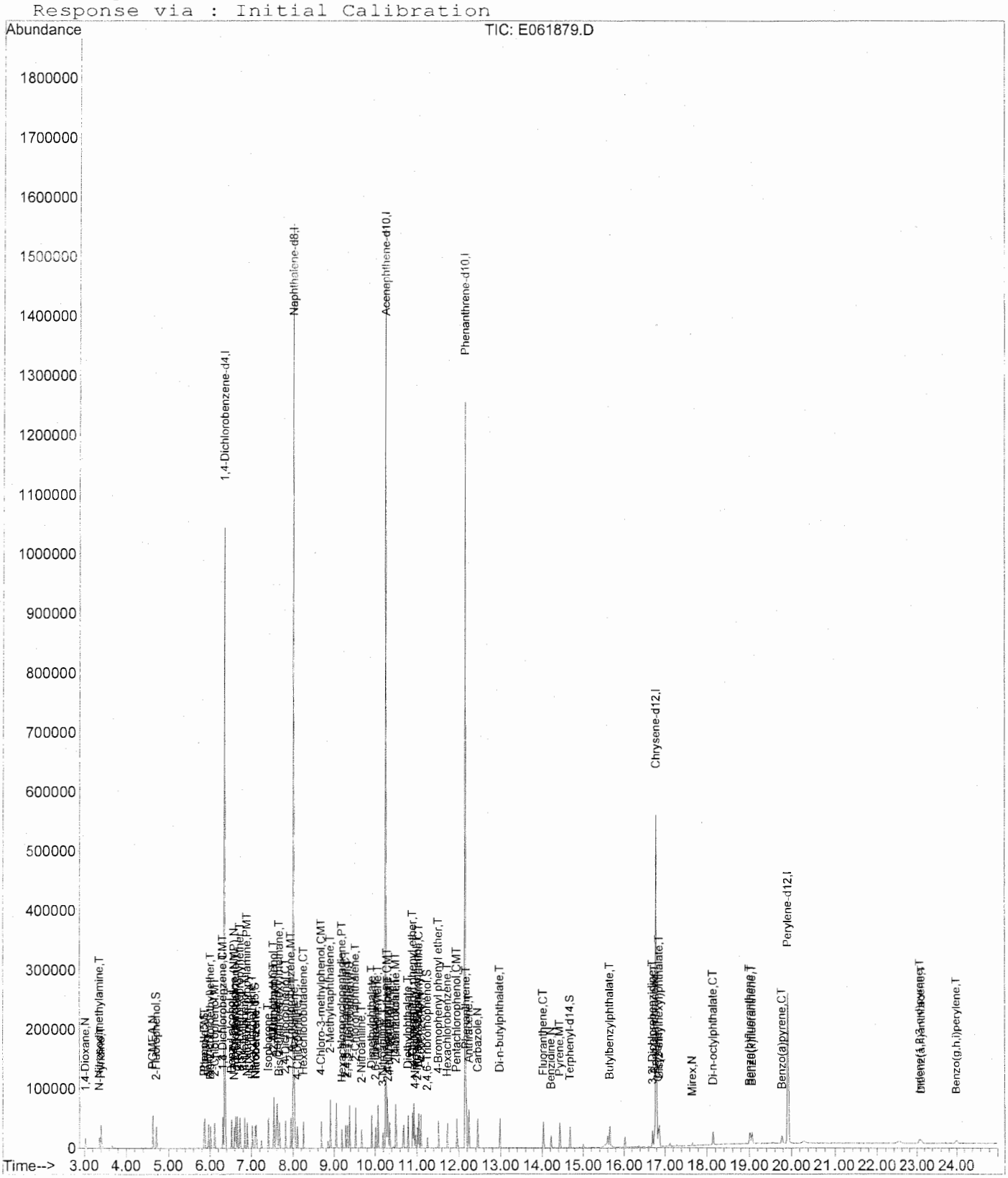
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	6205	1.77	mg/L		99
40)	2,4,5-Trichlorophenol	9.33	196	6791	1.79	mg/L		97
42)	2-Chloronaphthalene	9.53	162	23257	2.00	mg/L		98
43)	2-Nitroaniline	9.68	65	6219	1.66	mg/L		96
44)	Dimethylphthalate	9.92	163	24535	1.90	mg/L		96
45)	Acenaphthylene	10.07	152	36383	1.91	mg/L		99
46)	2,6-Dinitrotoluene	10.02	165	5290	1.70	mg/L		94
47)	3-Nitroaniline	10.19	138	4871	1.80	mg/L		98
48)	Acenaphthene	10.30	154	24496	1.87	mg/L		92
49)	2,4-Dinitrophenol	10.32	184	4155	1.14	mg/L	#	1
50)	4-Nitrophenol	10.35	109	4717	1.54	mg/L	#	36
51)	Dibenzofuran	10.50	168	32495	1.99	mg/L		95
52)	2,4-Dinitrotoluene	10.51	165	6748	1.69	mg/L	#	83
53)	Fluorene	10.93	166	25960	1.94	mg/L		99
54)	Diethylphthalate	10.80	149	24815	1.89	mg/L		96
55)	4-Chlorophenyl phenyl ethe	10.90	204	11124	1.93	mg/L		94
56)	4-Nitroaniline	10.97	138	4501	1.89	mg/L	#	86
58)	2-Methyl-4,6-dinitrophenol	11.02	198	5882	1.35	mg/L	#	82
59)	N-Nitrosodiphenylamine	11.05	169	17698	2.06	mg/L		99
60)	Azobenzene	11.10	77	24527	1.95	mg/L	#	87
62)	4-Bromophenyl phenyl ether	11.52	248	6215	1.91	mg/L		99
63)	Hexachlorobenzene	11.74	284	6736	1.98	mg/L		95
64)	Pentachlorophenol	11.96	266	6805	1.44	mg/L		97
65)	Phenanthrene	12.19	178	34533	2.04	mg/L		99
66)	Anthracene	12.24	178	32086	1.90	mg/L		99
67)	Carbazole	12.45	167	27290	3.37	mg/L		97
68)	Di-n-butylphthalate	12.98	149	32778	1.67	mg/L		99
69)	Fluoranthene	14.03	202	27173	1.85	mg/L	#	93
71)	Benzidine	14.22	184	13622	1.62	mg/L	#	95
72)	Pyrene	14.44	202	27600	1.71	mg/L		99
74)	Butylbenzylphthalate	15.65	149	12726	1.70	mg/L	#	92
75)	3,3'-Dichlorobenzidine	16.71	252	10668	2.24	mg/L	#	97
76)	Benz(a)anthracene	16.76	228	19795	1.95	mg/L		98
77)	Chrysene	16.84	228	19239	2.07	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	16.87	149	14646	1.47	mg/L		99
79)	Mirex	17.67	272	1489	1.38	mg/L		97
81)	Di-n-octylphthalate	18.15	149	18093	1.10	mg/L		100
82)	Benzo(b)fluoranthene	19.01	252	15261	2.08	mg/L	#	94
83)	Benzo(k)fluoranthene	19.07	252	15216	2.22	mg/L	#	94
84)	Benzo(a)pyrene	19.77	252	11661	2.06	mg/L	#	90
85)	Indeno(1,2,3-c,d)pyrene	23.06	276	8946	2.09	mg/L	#	92
86)	Dibenz(a,h)anthracene	23.12	278	7378	2.00	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.99	276	7032	2.01	mg/L	#	64

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:06 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061880.D Vial: 5
Acq On : 26 Dec 2006 3:23 pm Operator: SC
Sample : 4PPM 8270 79-5 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:05:23 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	195783	40.00	mg/L		0.00
22) Naphthalene-d8	8.01	136	766038	40.00	mg/L		0.00
37) Acenaphthene-d10	10.26	164	415428	40.00	mg/L		0.00
57) Phenanthrene-d10	12.15	188	621089	40.00	mg/L		0.00
70) Chrysene-d12	16.79	240	343966	40.00	mg/L		0.00
80) Perylene-d12	19.92	264	189472	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.72	112	24691	3.91	mg/L		[illegible]
Spiked Amount 50.000			Recovery =	7.81%			
7) Phenol-d5	5.86	99	31803	3.91	mg/L		-0.01
Spiked Amount 50.000			Recovery =	7.82%			
23) Nitrobenzene-d5	7.10	82	25217	3.81	mg/L		0.00
Spiked Amount 50.000			Recovery =	7.62%			
41) 2-Fluorobiphenyl	9.38	172	52629	4.04	mg/L		0.00
Spiked Amount 50.000			Recovery =	8.08%			
61) 2,4,6-Tribromophenol	11.26	330	5526	3.53	mg/L		0.00
Spiked Amount 50.000			Recovery =	7.06%			
73) Terphenyl-d14	14.68	244	37099	3.54	mg/L		0.00
Spiked Amount 50.000			Recovery =	7.08%			
Target Compounds							Qvalue
2) 1,4-Dioxane	3.03	88	11834	4.11	mg/L	#	59
3) N-Nitrosodimethylamine	3.37	42	15210	4.11	mg/L		86
4) Pyridine	3.41	79	29711	3.97	mg/L	#	46
5) PGMEA	4.64	43	54739	4.14	mg/L	#	87
8) Phenol	5.88	94	33628	3.95	mg/L		92
9) Aniline	5.97	93	37372	3.66	mg/L		99
10) Bis(2-chloroethyl)ether	6.02	93	28117	4.05	mg/L		90
11) 2-Chlorophenol	6.12	128	28224	3.86	mg/L		97
12) 1,3-Dichlorobenzene	6.31	146	31639	4.02	mg/L		100
13) 1,4-Dichlorobenzene	6.37	146	32813	4.12	mg/L		94
14) Benzyl alcohol	6.52	108	17542	3.73	mg/L	#	76
15) 1,2-Dichlorobenzene	6.62	146	30603	4.07	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.59	99	17757	3.78	mg/L		99
17) 2-Methylphenol	6.66	108	24554	3.86	mg/L		99
18) Bis(2-chloroisopropyl)ethe	6.73	45	54348	4.14	mg/L	#	78
19) 4-Methylphenol	6.84	107	30903	3.80	mg/L	#	91
20) N-Nitrosodi-n-propylamine	6.90	70	18421	3.80	mg/L	#	72
21) Hexachloroethane	7.03	117	11713	3.94	mg/L	#	79
24) Nitrobenzene	7.12	77	26766	3.91	mg/L	#	75
25) Isophorone	7.41	82	47557	3.78	mg/L		95
26) 2-Nitrophenol	7.53	139	13884	3.69	mg/L	#	86
27) 2,4-Dimethylphenol	7.54	122	24842	3.94	mg/L	#	81
28) Benzoic acid	7.64	122	63051	2.87	mg/L	#	82
29) Bis(2-chloroethoxy)methane	7.67	93	31041	4.03	mg/L		89
30) 2,4-Dichlorophenol	7.82	162	20641	3.84	mg/L		97
31) 1,2,4-Trichlorobenzene	7.95	180	22997	4.07	mg/L		99
32) Naphthalene	8.04	128	81223	4.08	mg/L		99
33) 4-Chloroaniline	8.10	127	26847	3.40	mg/L		96
34) Hexachlorobutadiene	8.25	225	11884	3.95	mg/L		98
35) 4-Chloro-3-methylphenol	8.68	107	20714	3.68	mg/L		94
36) 2-Methylnaphthalene	8.91	142	53864	3.96	mg/L		98
38) Hexachlorocyclopentadiene	9.19	237	12748	3.75	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061880.D Vial: 5
Acq On : 26 Dec 2006 3:23 pm Operator: SC
Sample : 4PPM 8270 79-5 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:05:23 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

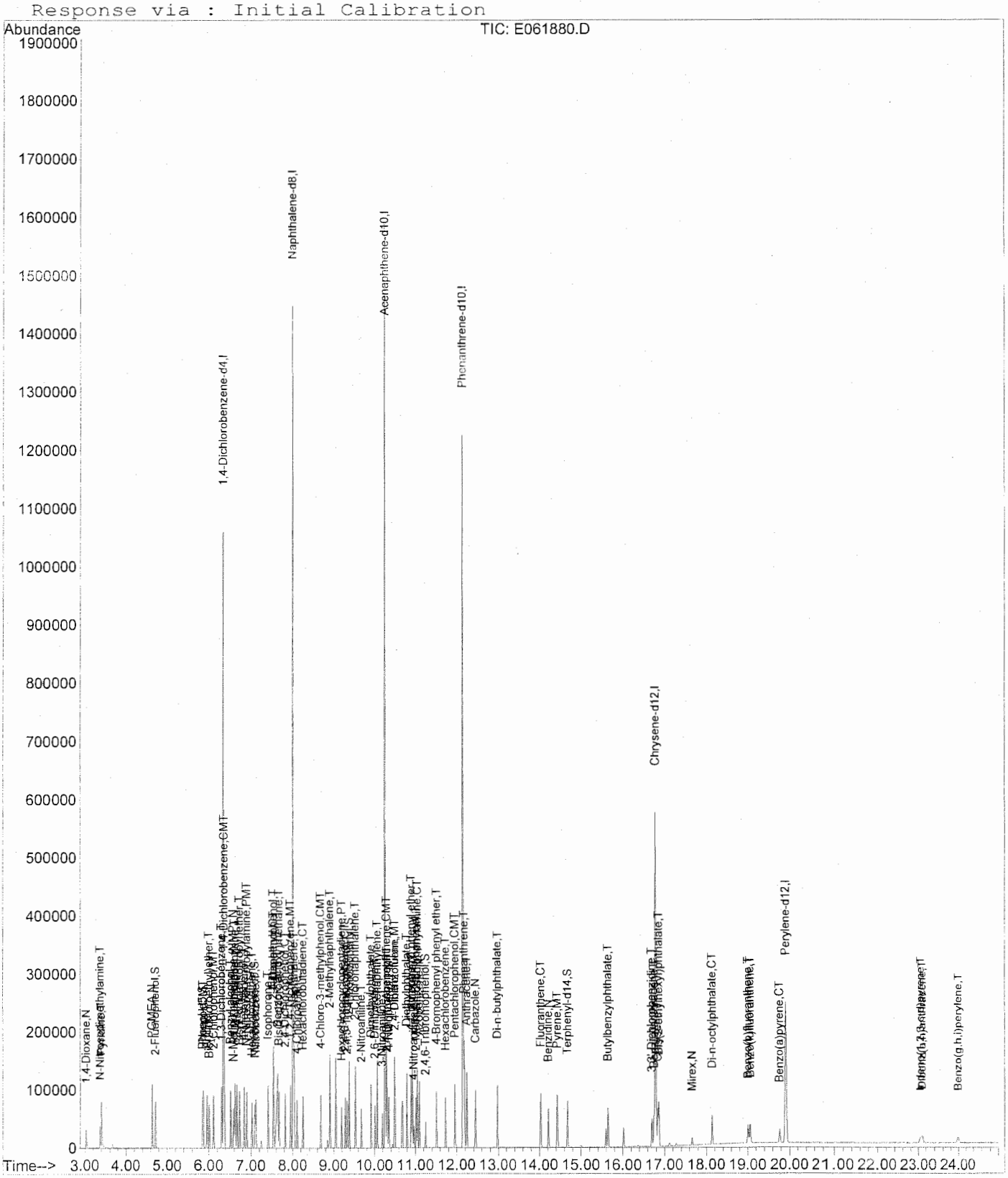
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	13289	3.78	mg/L		99
40)	2,4,5-Trichlorophenol	9.33	196	14315	3.76	mg/L	#	97
42)	2-Chloronaphthalene	9.53	162	47611	4.08	mg/L		98
43)	2-Nitroaniline	9.68	65	13046	3.47	mg/L		94
44)	Dimethylphthalate	9.92	163	50630	3.91	mg/L		96
45)	Acenaphthylene	10.07	152	75296	3.95	mg/L		100
46)	2,6-Dinitrotoluene	10.01	165	11196	3.59	mg/L		92
47)	3-Nitroaniline	10.19	138	10353	3.82	mg/L		89
48)	Acenaphthene	10.30	154	50720	3.86	mg/L		65
49)	2,4-Dinitrophenol	10.32	184	9180	2.51	mg/L	#	1
50)	4-Nitrophenol	10.35	109	10318	3.36	mg/L	#	42
51)	Dibenzofuran	10.49	168	66015	4.03	mg/L		93
52)	2,4-Dinitrotoluene	10.51	165	14488	3.62	mg/L	#	84
53)	Fluorene	10.93	166	52619	3.93	mg/L		99
54)	Diethylphthalate	10.79	149	50964	3.87	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.90	204	23358	4.05	mg/L		95
56)	4-Nitroaniline	10.96	138	7806	3.26	mg/L	#	84
58)	2-Methyl-4,6-dinitrophenol	11.02	198	13306	3.01	mg/L	#	81
59)	N-Nitrosodiphenylamine	11.05	169	37157	4.25	mg/L		99
60)	Azobenzene	11.10	77	50603	3.95	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.51	248	13073	3.94	mg/L		99
63)	Hexachlorobenzene	11.73	284	13807	3.99	mg/L		94
64)	Pentachlorophenol	11.96	266	15073	3.14	mg/L		99
65)	Phenanthrene	12.18	178	69663	4.04	mg/L		100
66)	Anthracene	12.24	178	66940	3.89	mg/L		99
67)	Carbazole	12.45	167	53658	6.51	mg/L		99
68)	Di-n-butylphthalate	12.98	149	72554	3.64	mg/L		99
69)	Fluoranthene	14.03	202	57212	3.83	mg/L	#	93
71)	Benzidine	14.22	184	39459	4.72	mg/L	#	96
72)	Pyrene	14.43	202	58878	3.66	mg/L		99
74)	Butylbenzylphthalate	15.65	149	24348	3.27	mg/L		94
75)	3,3'-Dichlorobenzidine	16.70	252	18752	3.95	mg/L	#	96
76)	Benz(a)anthracene	16.75	228	38548	3.80	mg/L		99
77)	Chrysene	16.84	228	37385	4.04	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.87	149	31411	3.17	mg/L		99
79)	Mirex	17.66	272	3443	3.21	mg/L		96
81)	Di-n-octylphthalate	18.14	149	37199	2.30	mg/L		99
82)	Benzo(b)fluoranthene	19.01	252	25417	3.53	mg/L	#	94
83)	Benzo(k)fluoranthene	19.06	252	25575	3.81	mg/L	#	91
84)	Benzo(a)pyrene	19.77	252	19482	3.52	mg/L	#	94
85)	Indeno(1,2,3-c,d)pyrene	23.05	276	15521	3.71	mg/L	#	85
86)	Dibenz(a,h)anthracene	23.11	278	13761	3.80	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.99	276	13267	3.86	mg/L	#	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061880.D Vial: 5
Acq On : 26 Dec 2006 3:23 pm Operator: SC
Sample : 4PPM 8270 79-5 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:05 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061881.D Vial: 6
Acq On : 26 Dec 2006 3:56 pm Operator: SC
Sample : 10PPM 8270 79-6 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 08:56:21 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	183318	40.00	mg/L	0.00
22) Naphthalene-d8	8.01	136	717819	40.00	mg/L	0.00
37) Acenaphthene-d10	10.26	164	389154	40.00	mg/L	0.00
57) Phenanthrene-d10	12.15	188	575672	40.00	mg/L	0.00
70) Chrysene-d12	16.79	240	319780	40.00	mg/L	0.00
80) Perylene-d12	19.91	264	177692	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.72	112	58332	9.86	mg/L	-0.02
Spiked Amount 50.000			Recovery =	19.72%		
7) Phenol-d5	5.86	99	75056	9.86	mg/L	-0.01
Spiked Amount 50.000			Recovery =	19.72%		
23) Nitrobenzene-d5	7.10	82	60952	9.82	mg/L	0.00
Spiked Amount 50.000			Recovery =	19.64%		
41) 2-Fluorobiphenyl	9.38	172	123762	10.15	mg/L	0.00
Spiked Amount 50.000			Recovery =	20.30%		
61) 2,4,6-Tribromophenol	11.25	330	13602	9.36	mg/L	-0.01
Spiked Amount 50.000			Recovery =	18.72%		
73) Terphenyl-d14	14.68	244	88893	9.12	mg/L	0.00
Spiked Amount 50.000			Recovery =	18.24%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	27196	10.09	mg/L #	62
3) N-Nitrosodimethylamine	3.37	42	34517	9.96	mg/L	90
4) Pyridine	3.40	79	69092	9.87	mg/L #	46
5) PGMEA	4.63	43	128981	10.42	mg/L #	87
8) Phenol	5.88	94	80311	10.07	mg/L	92
9) Aniline	5.97	93	94936	9.93	mg/L	100
10) Bis(2-chloroethyl)ether	6.02	93	65554	10.08	mg/L	92
11) 2-Chlorophenol	6.12	128	66895	9.76	mg/L	98
12) 1,3-Dichlorobenzene	6.31	146	73314	9.95	mg/L	99
13) 1,4-Dichlorobenzene	6.37	146	75692	10.15	mg/L	98
14) Benzyl alcohol	6.52	108	42651	9.67	mg/L #	75
15) 1,2-Dichlorobenzene	6.62	146	70058	9.96	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.60	99	41830	9.51	mg/L	100
17) 2-Methylphenol	6.67	108	58958	9.89	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.73	45	128124	10.43	mg/L #	78
19) 4-Methylphenol	6.84	107	74201	9.74	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.90	70	43604	9.61	mg/L #	73
21) Hexachloroethane	7.03	117	28059	10.09	mg/L #	77
24) Nitrobenzene	7.12	77	64128	10.00	mg/L #	76
25) Isophorone	7.41	82	114701	9.73	mg/L	93
26) 2-Nitrophenol	7.53	139	36551	10.37	mg/L #	88
27) 2,4-Dimethylphenol	7.54	122	57167	9.68	mg/L #	82
28) Benzoic acid	7.68	122	173684	8.44	mg/L #	81
29) Bis(2-chloroethoxy)methane	7.67	93	72278	10.01	mg/L #	76
30) 2,4-Dichlorophenol	7.82	162	49991	9.92	mg/L	98
31) 1,2,4-Trichlorobenzene	7.95	180	53828	10.18	mg/L	100
32) Naphthalene	8.04	128	192000	10.30	mg/L	99
33) 4-Chloroaniline	8.10	127	62718	8.48	mg/L	95
34) Hexachlorobutadiene	8.25	225	28054	9.95	mg/L	99
35) 4-Chloro-3-methylphenol	8.69	107	50169	9.51	mg/L	92
36) 2-Methylnaphthalene	8.91	142	127569	10.01	mg/L	98
38) Hexachlorocyclopentadiene	9.19	237	31013	9.74	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061881.D Vial: 6
Acq On : 26 Dec 2006 3:56 pm Operator: SC
Sample : 10PPM 8270 79-6 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 08:56:21 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

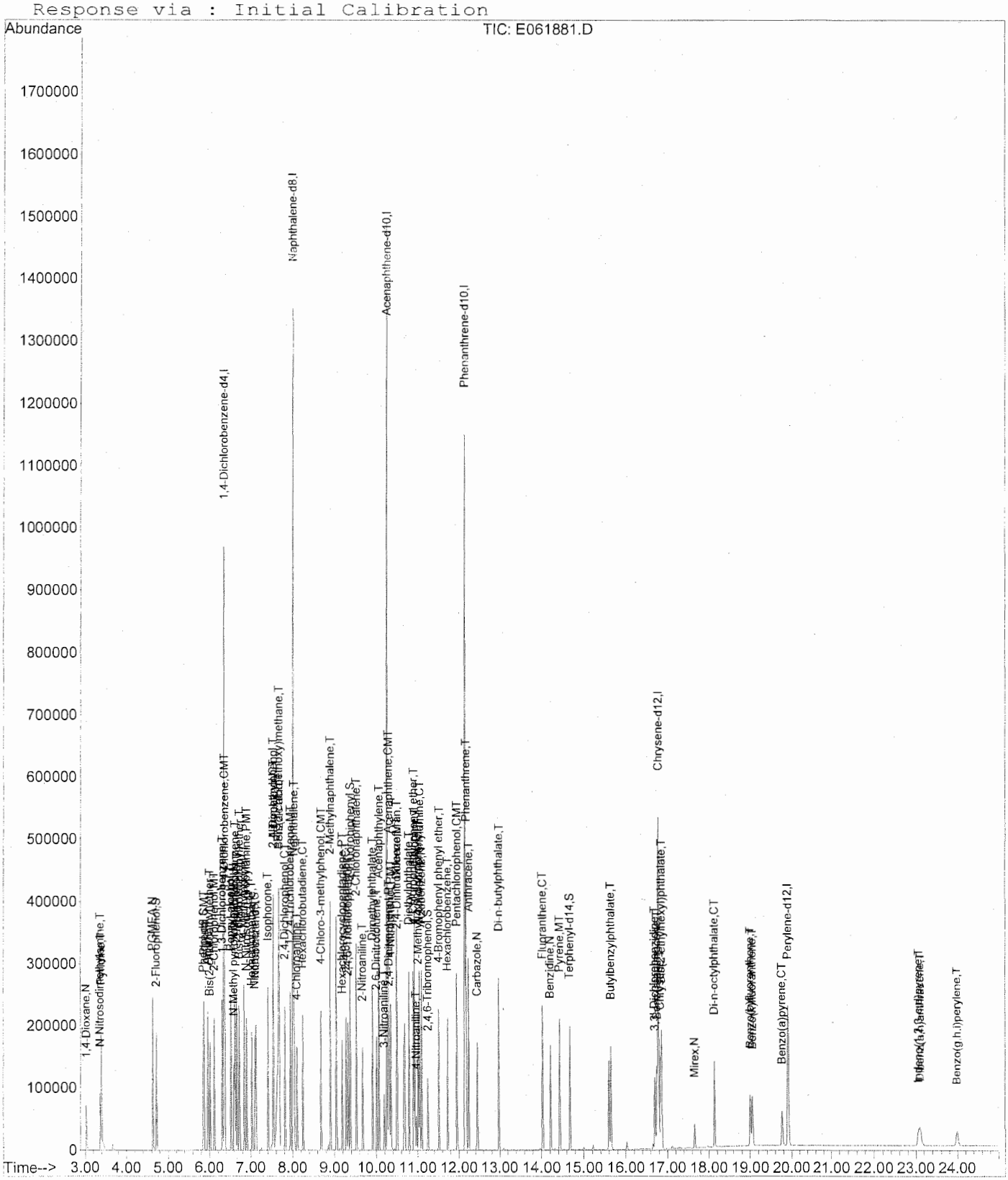
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	31458	9.55	mg/L		98
40)	2,4,5-Trichlorophenol	9.33	196	34119	9.58	mg/L	#	96
42)	2-Chloronaphthalene	9.53	162	110053	10.06	mg/L		99
43)	2-Nitroaniline	9.68	65	33301	9.45	mg/L		94
44)	Dimethylphthalate	9.92	163	120513	9.93	mg/L		97
45)	Acenaphthylene	10.07	152	180446	10.11	mg/L		99
46)	2,6-Dinitrotoluene	10.02	165	28190	9.64	mg/L		95
47)	3-Nitroaniline	10.20	138	18626	7.34	mg/L		86
48)	Acenaphthene	10.30	154	121294	9.86	mg/L		88
49)	2,4-Dinitrophenol	10.32	184	26775	7.80	mg/L	#	1
50)	4-Nitrophenol	10.35	109	26471	9.21	mg/L	#	43
51)	Dibenzofuran	10.49	168	152921	9.96	mg/L		95
52)	2,4-Dinitrotoluene	10.51	165	34880	9.31	mg/L	#	86
53)	Fluorene	10.93	166	124614	9.94	mg/L		98
54)	Diethylphthalate	10.79	149	120992	9.80	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.90	204	53806	9.96	mg/L		93
56)	4-Nitroaniline	10.97	138	13299	5.93	mg/L	#	85
58)	2-Methyl-4,6-dinitrophenol	11.02	198	35792	8.74	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.05	169	84049	10.36	mg/L		99
60)	Azobenzene	11.10	77	120536	10.15	mg/L	#	96
62)	4-Bromophenyl phenyl ether	11.52	248	29938	9.74	mg/L		99
63)	Hexachlorobenzene	11.73	284	32192	10.04	mg/L		95
64)	Pentachlorophenol	11.96	266	39389	8.84	mg/L		98
65)	Phenanthrene	12.18	178	161896	10.12	mg/L		100
66)	Anthracene	12.24	178	158813	9.97	mg/L		99
67)	Carbazole	12.45	167	96117	12.58	mg/L		98
68)	Di-n-butylphthalate	12.98	149	180956	9.79	mg/L		99
69)	Fluoranthene	14.03	202	137046	9.91	mg/L	#	93
71)	Benzidine	14.22	184	94014	12.09	mg/L	#	97
72)	Pyrene	14.44	202	136734	9.14	mg/L		99
74)	Butylbenzylphthalate	15.65	149	60753	8.77	mg/L		96
75)	3,3'-Dichlorobenzidine	16.70	252	43247	9.79	mg/L	#	96
76)	Benz(a)anthracene	16.75	228	91312	9.68	mg/L		99
77)	Chrysene	16.84	228	87142	10.12	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.87	149	79999	8.67	mg/L		98
79)	Mirex	17.66	272	8800	8.82	mg/L		99
81)	Di-n-octylphthalate	18.14	149	104181	6.88	mg/L		99
82)	Benzo(b)fluoranthene	19.01	252	58718	8.69	mg/L	#	94
83)	Benzo(k)fluoranthene	19.06	252	60292	9.57	mg/L	#	94
84)	Benzo(a)pyrene	19.77	252	47458	9.14	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.06	276	38413	9.78	mg/L	#	51
86)	Dibenz(a,h)anthracene	23.11	278	33516	9.86	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.99	276	32402	10.06	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061881.D Vial: 6
Acq On : 26 Dec 2006 3:56 pm Operator: SC
Sample : 10PPM 8270 79-6 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 8:56 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061882.D Vial: 7
Acq On : 26 Dec 2006 4:28 pm Operator: SC
Sample : 25PPM 8270 79-7 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 08:58:45 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	174410	40.00	mg/L	0.00
22) Naphthalene-d8	8.01	136	694619	40.00	mg/L	0.00
37) Acenaphthene-d10	10.26	164	382921	40.00	mg/L	0.00
57) Phenanthrene-d10	12.15	188	582081	40.00	mg/L	0.00
70) Chrysene-d12	16.79	240	330836	40.00	mg/L	0.00
80) Perylene-d12	19.92	264	169785	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.72	112	140895	25.04	mg/L	0.00
Spiked Amount 50.000			Recovery = 50.08%			
7) Phenol-d5	5.87	99	182567	25.21	mg/L	0.00
Spiked Amount 50.000			Recovery = 50.42%			
23) Nitrobenzene-d5	7.10	82	148866	24.80	mg/L	0.00
Spiked Amount 50.000			Recovery = 49.60%			
41) 2-Fluorobiphenyl	9.38	172	300414	25.05	mg/L	0.00
Spiked Amount 50.000			Recovery = 50.10%			
61) 2,4,6-Tribromophenol	11.26	330	35942	24.47	mg/L	0.00
Spiked Amount 50.000			Recovery = 48.94%			
73) Terphenyl-d14	14.68	244	231117	22.93	mg/L	0.00
Spiked Amount 50.000			Recovery = 45.86%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	63944	24.94	mg/L #	60
3) N-Nitrosodimethylamine	3.37	42	83974	25.47	mg/L	89
4) Pyridine	3.40	79	167462	25.13	mg/L #	48
5) PGMEA	4.64	43	303263	25.76	mg/L #	87
8) Phenol	5.88	94	192914	25.42	mg/L	92
9) Aniline	5.97	93	225363	24.77	mg/L	100
10) Bis(2-chloroethyl)ether	6.02	93	158488	25.62	mg/L	92
11) 2-Chlorophenol	6.12	128	162396	24.91	mg/L	97
12) 1,3-Dichlorobenzene	6.31	146	176317	25.14	mg/L	100
13) 1,4-Dichlorobenzene	6.38	146	179715	25.34	mg/L	99
14) Benzyl alcohol	6.53	108	105090	25.05	mg/L #	76
15) 1,2-Dichlorobenzene	6.62	146	166706	24.90	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.62	99	105050	25.10	mg/L	100
17) 2-Methylphenol	6.68	108	143686	25.33	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.73	45	303697	25.98	mg/L #	78
19) 4-Methylphenol	6.85	107	182654	25.21	mg/L #	92
20) N-Nitrosodi-n-propylamine	6.91	70	106203	24.60	mg/L #	74
21) Hexachloroethane	7.03	117	66655	25.20	mg/L #	78
24) Nitrobenzene	7.13	77	156306	25.19	mg/L #	77
25) Isophorone	7.42	82	282105	24.72	mg/L	93
26) 2-Nitrophenol	7.54	139	108646	31.86	mg/L #	82
27) 2,4-Dimethylphenol	7.54	122	142653	24.96	mg/L #	82
28) Benzoic acid	7.75	122	487209	24.45	mg/L #	80
29) Bis(2-chloroethoxy)methane	7.68	93	175598	25.14	mg/L #	85
30) 2,4-Dichlorophenol	7.83	162	120784	24.77	mg/L	98
31) 1,2,4-Trichlorobenzene	7.95	180	128384	25.08	mg/L	99
32) Naphthalene	8.04	128	454155	25.17	mg/L	99
33) 4-Chloroaniline	8.11	127	139283	19.46	mg/L	95
34) Hexachlorobutadiene	8.25	225	67074	24.59	mg/L	100
35) 4-Chloro-3-methylphenol	8.69	107	124979	24.48	mg/L	92
36) 2-Methylnaphthalene	8.91	142	311689	25.27	mg/L	98
38) Hexachlorocyclopentadiene	9.19	237	77141	24.62	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061882.D Vial: 7
Acq On : 26 Dec 2006 4:28 pm Operator: SC
Sample : 25PPM 8270 79-7 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 08:58:45 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

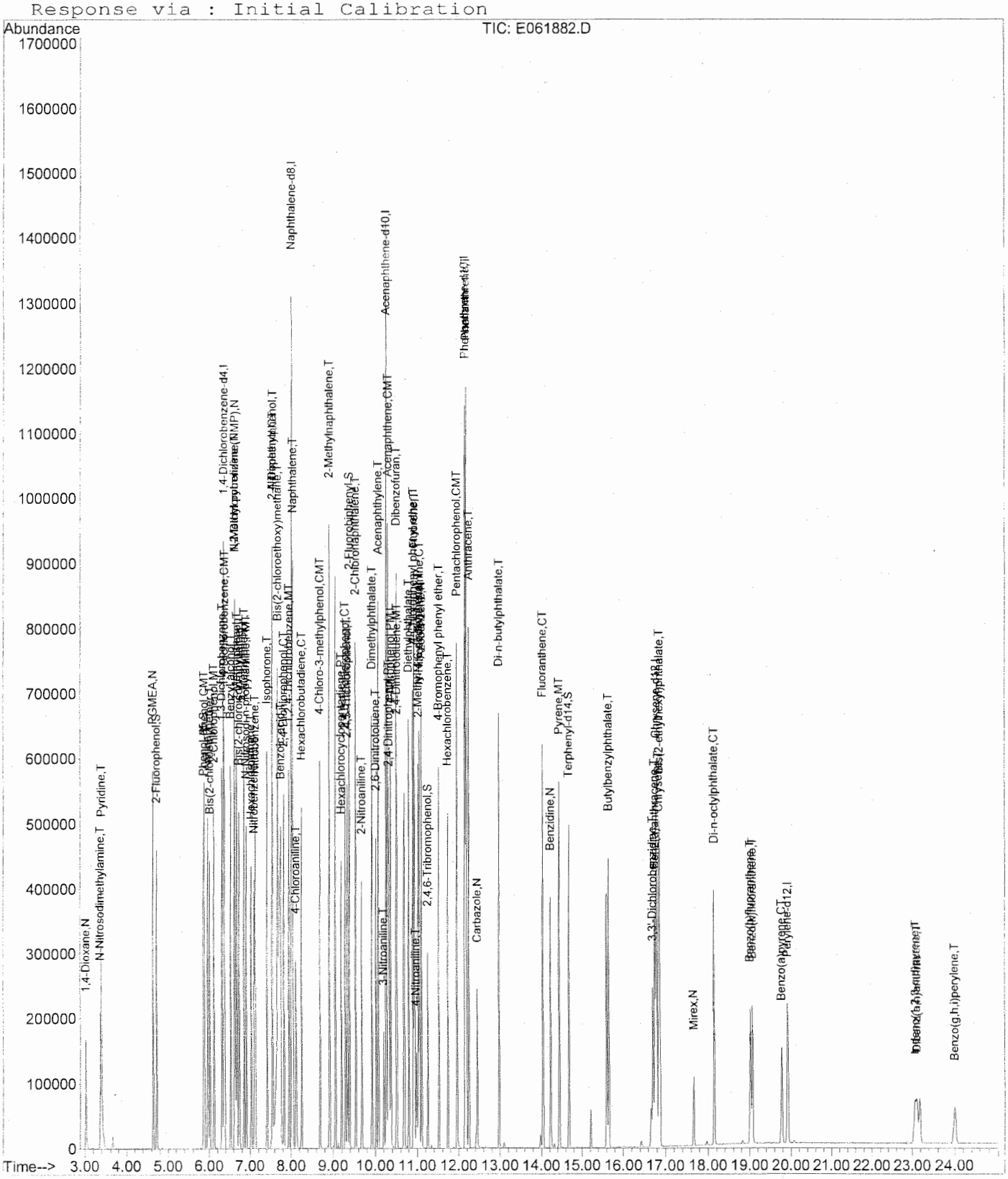
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	80200	24.75	mg/L		99
40)	2,4,5-Trichlorophenol	9.33	196	87167	24.86	mg/L		97
42)	2-Chloronaphthalene	9.53	162	269745	25.05	mg/L		98
43)	2-Nitroaniline	9.68	65	85100	24.55	mg/L		93
44)	Dimethylphthalate	9.92	163	300089	25.13	mg/L		96
45)	Acenaphthylene	10.07	152	445453	25.36	mg/L		99
46)	2,6-Dinitrotoluene	10.02	165	71363	24.79	mg/L		93
47)	3-Nitroaniline	10.20	138	37238	14.91	mg/L		87
48)	Acenaphthene	10.31	154	301718	24.93	mg/L		87
49)	2,4-Dinitrophenol	10.33	184	80962	23.98	mg/L	#	1
50)	4-Nitrophenol	10.36	109	74414	26.33	mg/L	#	48
51)	Dibenzofuran	10.50	168	379675	25.13	mg/L		95
52)	2,4-Dinitrotoluene	10.51	165	92325	25.05	mg/L	#	87
53)	Fluorene	10.94	166	309738	25.10	mg/L		99
54)	Diethylphthalate	10.80	149	300197	24.71	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.90	204	133676	25.15	mg/L		95
56)	4-Nitroaniline	10.98	138	40283	18.27	mg/L	#	89
58)	2-Methyl-4,6-dinitrophenol	11.03	198	100078	24.17	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.05	169	182527	22.25	mg/L		92
60)	Azobenzene	11.10	77	299745	24.96	mg/L	#	77
62)	4-Bromophenyl phenyl ether	11.52	248	75856	24.42	mg/L		99
63)	Hexachlorobenzene	11.74	284	78885	24.33	mg/L		96
64)	Pentachlorophenol	11.96	266	108625	24.12	mg/L		99
65)	Phenanthrene	12.19	178	409982	25.35	mg/L		99
66)	Anthracene	12.24	178	405658	25.18	mg/L		99
67)	Carbazole	12.45	167	143545	18.58	mg/L		98
68)	Di-n-butylphthalate	12.98	149	462104	24.72	mg/L		99
69)	Fluoranthene	14.03	202	365275	26.12	mg/L	#	93
71)	Benzidine	14.22	184	224306	27.87	mg/L	#	97
72)	Pyrene	14.44	202	359169	23.22	mg/L		99
74)	Butylbenzylphthalate	15.65	149	163761	22.84	mg/L		94
75)	3,3'-Dichlorobenzidine	16.71	252	92395	20.21	mg/L	#	96
76)	Benz(a)anthracene	16.75	228	242686	24.88	mg/L		99
77)	Chrysene	16.84	228	226179	25.38	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.87	149	214448	22.47	mg/L		98
79)	Mirex	17.66	272	22762	22.06	mg/L		98
81)	Di-n-octylphthalate	18.14	149	300605	20.78	mg/L		99
82)	Benzo(b)fluoranthene	19.01	252	152671	23.65	mg/L	#	94
83)	Benzo(k)fluoranthene	19.07	252	147573	24.52	mg/L	#	94
84)	Benzo(a)pyrene	19.77	252	120920	24.36	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.06	276	92191	24.57	mg/L	#	51
86)	Dibenz(a,h)anthracene	23.11	278	79976	24.63	mg/L	#	91
87)	Benzo(g,h,i)perylene	23.99	276	76058	24.70	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061882.D Vial: 7
Acq On : 26 Dec 2006 4:28 pm Operator: SC
Sample : 25PPM 8270 79-7 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 8:58 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061883.D Vial: 8
Acq On : 26 Dec 2006 5:01 pm Operator: SC
Sample : 50PPM 8270 79-8 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:00:04 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	187948	40.00	mg/L		0.00
22) Naphthalene-d8	8.02	136	748255	40.00	mg/L		0.00
37) Acenaphthene-d10	10.26	164	416321	40.00	mg/L		0.00
57) Phenanthrene-d10	12.15	188	621575	40.00	mg/L		0.00
70) Chrysene-d12	16.79	240	304961	40.00	mg/L		0.00
80) Perylene-d12	19.91	264	143248	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.73	112	303143	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
7) Phenol-d5	5.87	99	390169	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
23) Nitrobenzene-d5	7.11	82	323342	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
41) 2-Fluorobiphenyl	9.39	172	651981	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
61) 2,4,6-Tribromophenol	11.26	330	78431	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
73) Terphenyl-d14	14.69	244	464646	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
Target Compounds							Qvalue
2) 1,4-Dioxane	3.02	88	138145	50.00	mg/L	#	60
3) N-Nitrosodimethylamine	3.37	42	177615	50.00	mg/L		90
4) Pyridine	3.39	79	359004	50.00	mg/L	#	48
5) PGMEA	4.64	43	634263	50.00	mg/L	#	88
8) Phenol	5.89	94	408938	50.00	mg/L		93
9) Aniline	5.97	93	490129	50.00	mg/L		100
10) Bis(2-chloroethyl)ether	6.03	93	333366	50.00	mg/L		92
11) 2-Chlorophenol	6.12	128	351264	50.00	mg/L		98
12) 1,3-Dichlorobenzene	6.31	146	377857	50.00	mg/L		99
13) 1,4-Dichlorobenzene	6.38	146	382128	50.00	mg/L		99
14) Benzyl alcohol	6.53	108	226004	50.00	mg/L	#	76
15) 1,2-Dichlorobenzene	6.62	146	360704	50.00	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.67	99	225511	50.00	mg/L		100
17) 2-Methylphenol	6.69	108	305620	50.00	mg/L		98
18) Bis(2-chloroisopropyl)ethe	6.73	45	629933	50.00	mg/L	#	79
19) 4-Methylphenol	6.87	107	390329	50.00	mg/L	#	92
20) N-Nitrosodi-n-propylamine	6.92	70	232631	50.00	mg/L	#	77
21) Hexachloroethane	7.03	117	142528	50.00	mg/L	#	78
24) Nitrobenzene	7.13	77	334273	50.00	mg/L	#	78
25) Isophorone	7.42	82	614612	50.00	mg/L		93
26) 2-Nitrophenol	7.54	139	183669	50.00	mg/L	#	85
27) 2,4-Dimethylphenol	7.55	122	307860	50.00	mg/L	#	83
28) Benzoic acid	7.82	122	1073170	50.00	mg/L	#	81
29) Bis(2-chloroethoxy)methane	7.68	93	376231	50.00	mg/L	#	88
30) 2,4-Dichlorophenol	7.83	162	262590	50.00	mg/L		97
31) 1,2,4-Trichlorobenzene	7.95	180	275706	50.00	mg/L		99
32) Naphthalene	8.05	128	971733	50.00	mg/L		99
33) 4-Chloroaniline	8.11	127	385558	50.00	mg/L		96
34) Hexachlorobutadiene	8.25	225	146931	50.00	mg/L		99
35) 4-Chloro-3-methylphenol	8.69	107	274972	50.00	mg/L		92
36) 2-Methylnaphthalene	8.92	142	664393	50.00	mg/L		99
38) Hexachlorocyclopentadiene	9.19	237	170302	50.00	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061883.D Vial: 8
Acq On : 26 Dec 2006 5:01 pm Operator: SC
Sample : 50PPM 8270 79-8 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:00:04 2006 Quant Results File: BA061226.RES

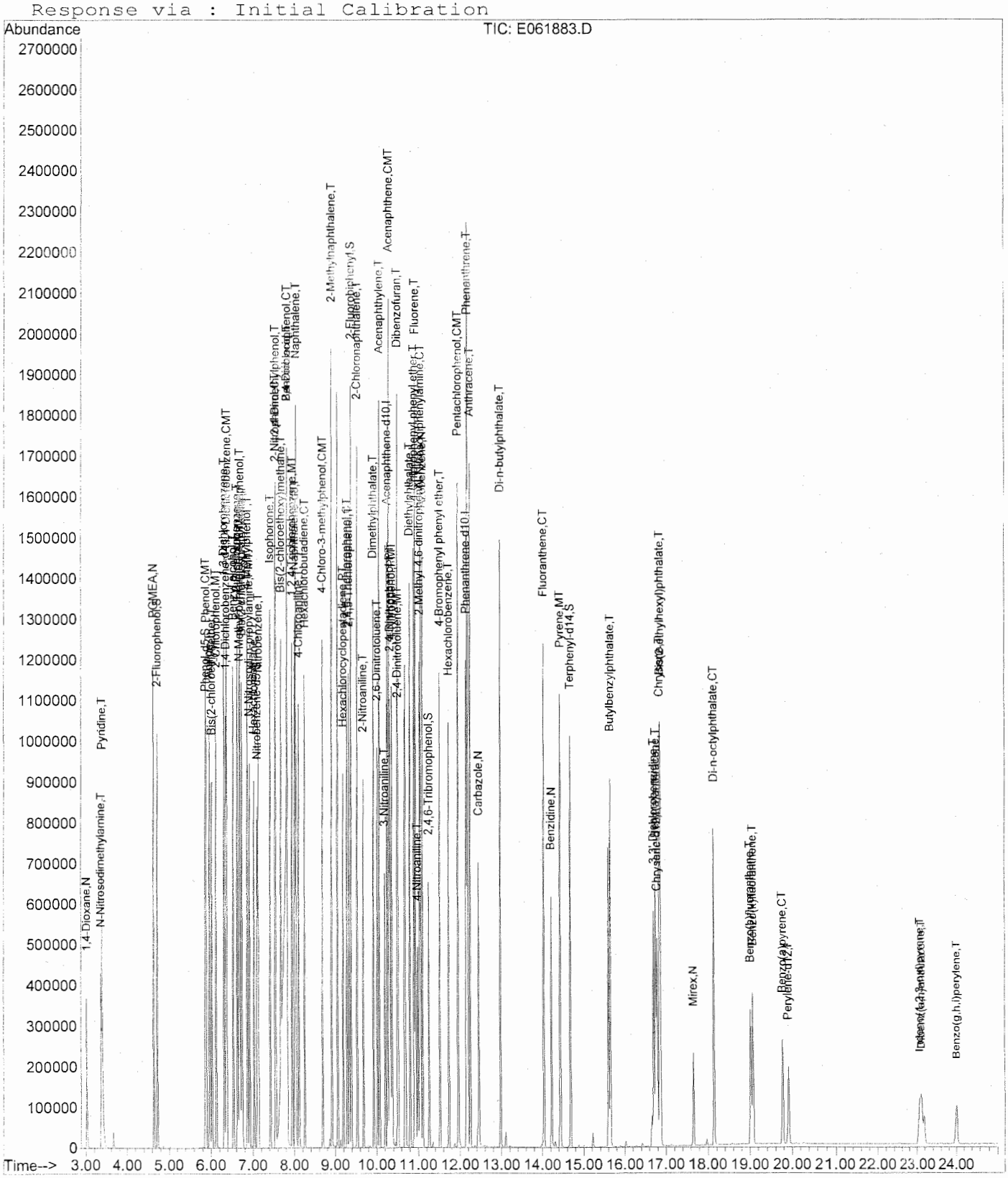
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	176148	50.00	mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	190603	50.00	mg/L	#	97
42)	2-Chloronaphthalene	9.54	162	585287	50.00	mg/L		98
43)	2-Nitroaniline	9.69	65	188474	50.00	mg/L		92
44)	Dimethylphthalate	9.93	163	649103	50.00	mg/L		97
45)	Acenaphthylene	10.08	152	954843	50.00	mg/L		100
46)	2,6-Dinitrotoluene	10.03	165	156478	50.00	mg/L		93
47)	3-Nitroaniline	10.20	138	135724	50.00	mg/L		83
48)	Acenaphthene	10.31	154	657877	50.00	mg/L		86
49)	2,4-Dinitrophenol	10.33	184	183527	50.00	mg/L	#	1
50)	4-Nitrophenol	10.37	109	153657	50.00	mg/L	#	43
51)	Dibenzofuran	10.50	168	821333	50.00	mg/L		95
52)	2,4-Dinitrotoluene	10.52	165	200327	50.00	mg/L	#	88
53)	Fluorene	10.94	166	670815	50.00	mg/L		99
54)	Diethylphthalate	10.81	149	660334	50.00	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.91	204	288899	50.00	mg/L		94
56)	4-Nitroaniline	10.99	138	119870	50.00	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	11.04	198	221061	50.00	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.06	169	437924	50.00	mg/L		92
60)	Azobenzene	11.11	77	641201	50.00	mg/L	#	93
62)	4-Bromophenyl phenyl ether	11.52	248	165866	50.00	mg/L		100
63)	Hexachlorobenzene	11.74	284	173139	50.00	mg/L		95
64)	Pentachlorophenol	11.96	266	240473	50.00	mg/L		98
65)	Phenanthrene	12.19	178	863568	50.00	mg/L		100
66)	Anthracene	12.25	178	860203	50.00	mg/L		99
67)	Carbazole	12.46	167	412577	50.00	mg/L		98
68)	Di-n-butylphthalate	12.98	149	998221	50.00	mg/L		99
69)	Fluoranthene	14.04	202	746526	50.00	mg/L	#	93
71)	Benzidine	14.22	184	370877	50.00	mg/L	#	97
72)	Pyrene	14.44	202	713009	50.00	mg/L		99
74)	Butylbenzylphthalate	15.65	149	330432	50.00	mg/L		94
75)	3,3'-Dichlorobenzidine	16.71	252	210687	50.00	mg/L	#	97
76)	Benz(a)anthracene	16.76	228	449645	50.00	mg/L		99
77)	Chrysene	16.85	228	410701	50.00	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.87	149	439941	50.00	mg/L		98
79)	Mirex	17.66	272	47551	50.00	mg/L		100
81)	Di-n-octylphthalate	18.14	149	610160	50.00	mg/L		100
82)	Benzo(b)fluoranthene	19.01	252	272375	50.00	mg/L	#	95
83)	Benzo(k)fluoranthene	19.07	252	253868	50.00	mg/L	#	94
84)	Benzo(a)pyrene	19.78	252	209373	50.00	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.07	276	158292	50.00	mg/L	#	51
86)	Dibenz(a,h)anthracene	23.12	278	136988	50.00	mg/L	#	89
87)	Benzo(g,h,i)perylene	24.00	276	129881	50.00	mg/L	#	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061883.D Vial: 8
Acq On : 26 Dec 2006 5:01 pm Operator: SC
Sample : 50PPM 8270 79-8 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:00 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061884.D Vial: 9
Acq On : 26 Dec 2006 5:33 pm Operator: SC
Sample : 70PPM 8270 79-9 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:02:35 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	184673	40.00	mg/L		0.00
22) Naphthalene-d8	8.02	136	740240	40.00	mg/L		0.00
37) Acenaphthene-d10	10.27	164	407271	40.00	mg/L		0.00
57) Phenanthrene-d10	12.16	188	621549	40.00	mg/L		0.00
70) Chrysene-d12	16.80	240	335336	40.00	mg/L		0.01
80) Perylene-d12	19.92	264	176484	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.73	112	416063	69.84	mg/L		0.00
Spiked Amount 50.000			Recovery = 139.68%				
7) Phenol-d5	5.88	99	537280	70.07	mg/L		0.00
Spiked Amount 50.000			Recovery = 140.14%				
23) Nitrobenzene-d5	7.11	82	447726	69.98	mg/L		0.00
Spiked Amount 50.000			Recovery = 139.96%				
41) 2-Fluorobiphenyl	9.39	172	900414	70.59	mg/L		0.00
Spiked Amount 50.000			Recovery = 141.18%				
61) 2,4,6-Tribromophenol	11.26	330	110498	70.45	mg/L		0.00
Spiked Amount 50.000			Recovery = 140.90%				
73) Terphenyl-d14	14.69	244	670040	65.57	mg/L		0.00
Spiked Amount 50.000			Recovery = 131.14%				
Target Compounds							Qvalue
2) 1,4-Dioxane	3.02	88	184236	67.86	mg/L	#	59
3) N-Nitrosodimethylamine	3.38	42	241045	69.06	mg/L		91
4) Pyridine	3.39	79	486917	69.02	mg/L	#	47
5) PGMEA	4.64	43	863719	69.30	mg/L	#	88
8) Phenol	5.90	94	562040	69.94	mg/L		93
9) Aniline	5.97	93	675855	70.17	mg/L		100
10) Bis(2-chloroethyl)ether	6.03	93	455961	69.60	mg/L		92
11) 2-Chlorophenol	6.12	128	480300	69.58	mg/L		97
12) 1,3-Dichlorobenzene	6.31	146	515234	69.39	mg/L		99
13) 1,4-Dichlorobenzene	6.38	146	521841	69.49	mg/L		100
14) Benzyl alcohol	6.54	108	309859	69.77	mg/L	#	77
15) 1,2-Dichlorobenzene	6.63	146	494704	69.79	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.69	99	313149	70.66	mg/L		100
17) 2-Methylphenol	6.69	108	420284	69.98	mg/L		99
18) Bis(2-chloroisopropyl)ethe	6.73	45	854351	69.02	mg/L	#	79
19) 4-Methylphenol	6.88	107	543132	70.81	mg/L	#	93
20) N-Nitrosodi-n-propylamine	6.93	70	320292	70.06	mg/L	#	76
21) Hexachloroethane	7.03	117	197069	70.36	mg/L	#	78
24) Nitrobenzene	7.14	77	462827	69.98	mg/L	#	79
25) Isophorone	7.43	82	846008	69.57	mg/L		93
26) 2-Nitrophenol	7.54	139	258562	71.15	mg/L	#	86
27) 2,4-Dimethylphenol	7.55	122	423389	69.51	mg/L	#	83
28) Benzoic acid	7.86	122	1518271	71.50	mg/L	#	82
29) Bis(2-chloroethoxy)methane	7.68	93	515808	69.29	mg/L	#	87
30) 2,4-Dichlorophenol	7.84	162	357560	68.82	mg/L		98
31) 1,2,4-Trichlorobenzene	7.95	180	379720	69.61	mg/L		99
32) Naphthalene	8.05	128	1347939	70.11	mg/L		99
33) 4-Chloroaniline	8.12	127	529785	69.45	mg/L		96
34) Hexachlorobutadiene	8.25	225	203459	69.99	mg/L		100
35) 4-Chloro-3-methylphenol	8.70	107	379764	69.80	mg/L		91
36) 2-Methylnaphthalene	8.92	142	923935	70.29	mg/L		98
38) Hexachlorocyclopentadiene	9.19	237	234243	70.30	mg/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061884.D Vial: 9
Acq On : 26 Dec 2006 5:33 pm Operator: SC
Sample : 70PPM 8270 79-9 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:02:35 2006 Quant Results File: BA061226.RES

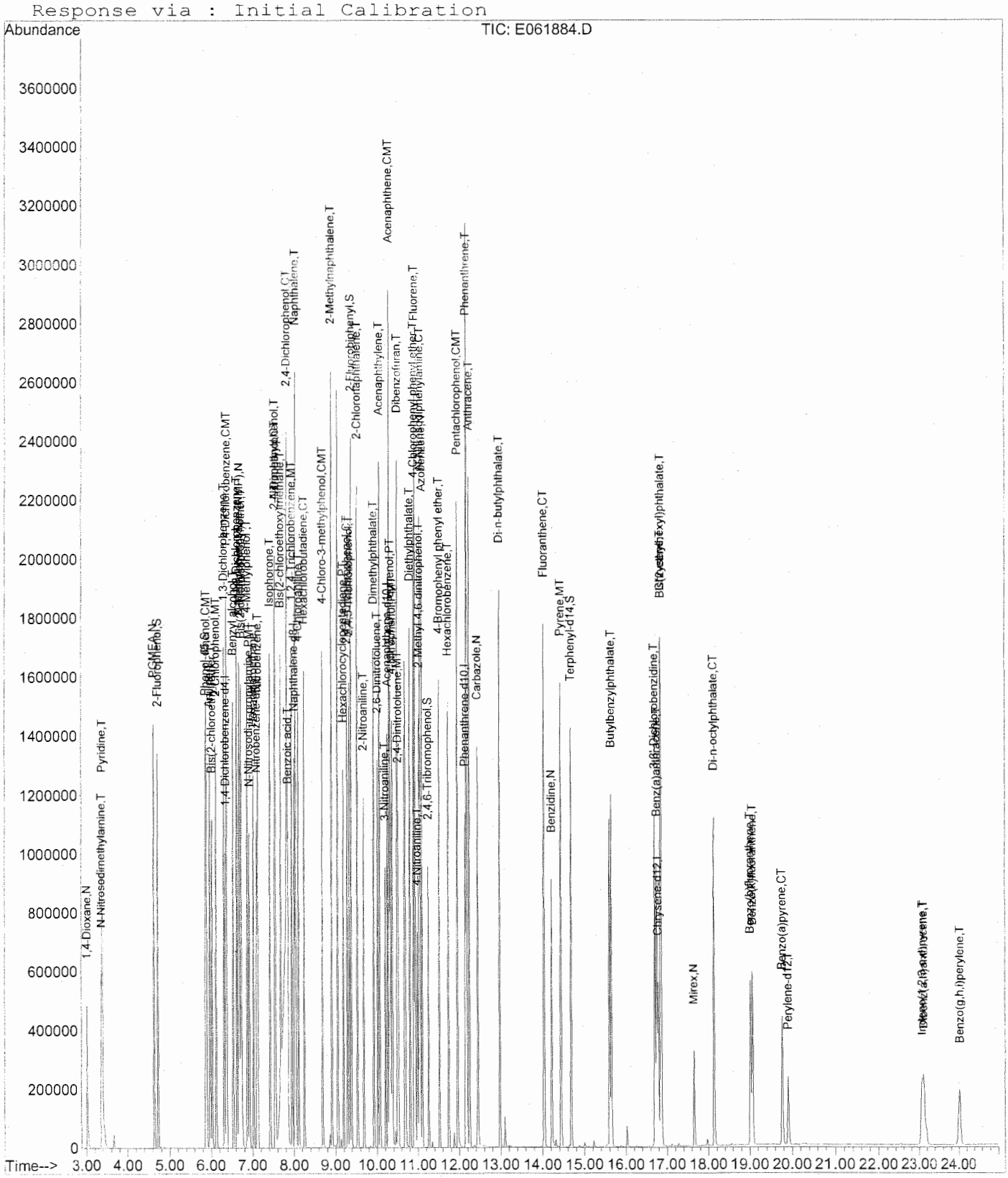
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	245271	71.17 mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	264469	70.92 mg/L	#	97
42)	2-Chloronaphthalene	9.54	162	804489	70.25 mg/L		98
43)	2-Nitroaniline	9.69	65	268110	72.71 mg/L		93
44)	Dimethylphthalate	9.93	163	896148	70.56 mg/L		97
45)	Acenaphthylene	10.08	152	1330516	71.22 mg/L		100
46)	2,6-Dinitrotoluene	10.03	165	217105	70.91 mg/L		93
47)	3-Nitroaniline	10.21	138	203562	76.66 mg/L		97
48)	Acenaphthene	10.31	154	807749	62.75 mg/L		96
49)	2,4-Dinitrophenol	10.34	184	268717	74.84 mg/L	#	59
50)	4-Nitrophenol	10.38	109	224747	74.76 mg/L	#	45
51)	Dibenzofuran	10.51	168	1131688	70.42 mg/L		95
52)	2,4-Dinitrotoluene	10.52	165	278069	70.95 mg/L	#	88
53)	Fluorene	10.94	166	927619	70.68 mg/L		99
54)	Diethylphthalate	10.81	149	898183	69.52 mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.91	204	399174	70.62 mg/L		94
56)	4-Nitroaniline	11.00	138	187613	80.00 mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	11.05	198	314629	71.17 mg/L	#	79
59)	N-Nitrosodiphenylamine	11.06	169	624164	71.27 mg/L		93
60)	Azobenzene	11.11	77	873105	68.09 mg/L		96
62)	4-Bromophenyl phenyl ether	11.52	248	230291	69.42 mg/L		99
63)	Hexachlorobenzene	11.74	284	237113	68.48 mg/L		96
64)	Pentachlorophenol	11.97	266	340528	70.81 mg/L		99
65)	Phenanthrene	12.19	178	1202977	69.65 mg/L		99
66)	Anthracene	12.26	178	1195619	69.50 mg/L		99
67)	Carbazole	12.46	167	775435	93.98 mg/L		98
68)	Di-n-butylphthalate	12.98	149	1363446	68.30 mg/L		99
69)	Fluoranthene	14.05	202	1052820	70.52 mg/L	#	93
71)	Benzidine	14.23	184	547251	67.10 mg/L	#	96
72)	Pyrene	14.45	202	1031949	65.81 mg/L		99
74)	Butylbenzylphthalate	15.66	149	467391	64.32 mg/L		94
75)	3,3'-Dichlorobenzidine	16.72	252	409501	88.38 mg/L	#	97
76)	Benz(a)anthracene	16.76	228	694686	70.25 mg/L		99
77)	Chrysene	16.86	228	635508	70.36 mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.87	149	617338	63.81 mg/L		98
79)	Mirex	17.66	272	67540	64.59 mg/L		100
81)	Di-n-octylphthalate	18.15	149	899004	59.80 mg/L		100
82)	Benzo(b)fluoranthene	19.02	252	458870	68.37 mg/L	#	95
83)	Benzo(k)fluoranthene	19.08	252	427628	68.36 mg/L	#	94
84)	Benzo(a)pyrene	19.78	252	367054	71.15 mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.07	276	311567	79.88 mg/L	#	53
86)	Dibenz(a,h)anthracene	23.12	278	267090	79.13 mg/L	#	91
87)	Benzo(g,h,i)perylene	24.01	276	255452	79.82 mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061884.D Vial: 9
Acq On : 26 Dec 2006 5:33 pm Operator: SC
Sample : 70PPM 8270 79-9 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:02 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061885.D Vial: 10
Acq On : 26 Dec 2006 6:05 pm Operator: SC
Sample : 100PPM 8270 79-10 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:03:35 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	165487	40.00	mg/L	0.00
22) Naphthalene-d8	8.02	136	671716	40.00	mg/L	0.00
37) Acenaphthene-d10	10.27	164	369208	40.00	mg/L	0.00
57) Phenanthrene-d10	12.16	188	561916	40.00	mg/L	0.00
70) Chrysene-d12	16.80	240	310337	40.00	mg/L	0.01
80) Perylene-d12	19.92	264	178531	40.00	mg/L	0.01
System Monitoring Compounds						
6) 2-Fluorophenol	4.74	112	530675	99.41	mg/L	0.01
Spiked Amount 50.000			Recovery =	198.82%		
7) Phenol-d5	5.88	99	691919	100.70	mg/L	0.01
Spiked Amount 50.000			Recovery =	201.40%		
23) Nitrobenzene-d5	7.12	82	574792	99.01	mg/L	0.01
Spiked Amount 50.000			Recovery =	198.02%		
41) 2-Fluorobiphenyl	9.39	172	1163212	100.59	mg/L	0.00
Spiked Amount 50.000			Recovery =	201.18%		
61) 2,4,6-Tribromophenol	11.27	330	146719	103.46	mg/L	0.00
Spiked Amount 50.000			Recovery =	206.92%		
73) Terphenyl-d14	14.69	244	875501	92.58	mg/L	0.00
Spiked Amount 50.000			Recovery =	185.16%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	236025	97.02	mg/L #	60
3) N-Nitrosodimethylamine	3.38	42	310408	99.24	mg/L	90
4) Pyridine	3.40	79	622289	98.43	mg/L #	47
5) PGMEA	4.64	43	1111507	99.51	mg/L #	88
8) Phenol	5.90	94	723729	100.50	mg/L	93
9) Aniline	5.98	93	867703	100.53	mg/L	100
10) Bis(2-chloroethyl)ether	6.03	93	581737	99.09	mg/L	91
11) 2-Chlorophenol	6.13	128	617999	99.91	mg/L	97
12) 1,3-Dichlorobenzene	6.31	146	660528	99.27	mg/L	99
13) 1,4-Dichlorobenzene	6.38	146	669722	99.52	mg/L	99
14) Benzyl alcohol	6.54	108	400782	100.70	mg/L #	77
15) 1,2-Dichlorobenzene	6.63	146	630681	99.29	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.69	99	402831	101.44	mg/L	100
17) 2-Methylphenol	6.68	108	544091	101.10	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.74	45	1077050	97.09	mg/L #	80
19) 4-Methylphenol	6.89	107	697675	101.50	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.93	70	413953	101.05	mg/L #	77
21) Hexachloroethane	7.03	117	254330	101.33	mg/L #	78
24) Nitrobenzene	7.14	77	595689	99.25	mg/L #	79
25) Isophorone	7.43	82	1083362	98.18	mg/L	94
26) 2-Nitrophenol	7.54	139	330852	100.33	mg/L #	86
27) 2,4-Dimethylphenol	7.56	122	547068	98.97	mg/L	83
28) Benzoic acid	7.90	122	1949592	101.18	mg/L #	84
29) Bis(2-chloroethoxy)methane	7.69	93	658159	97.43	mg/L #	89
30) 2,4-Dichlorophenol	7.84	162	465830	98.81	mg/L	98
31) 1,2,4-Trichlorobenzene	7.95	180	490960	99.18	mg/L	99
32) Naphthalene	8.05	128	1724136	98.82	mg/L	99
33) 4-Chloroaniline	8.12	127	682751	98.63	mg/L	96
34) Hexachlorobutadiene	8.25	225	260630	98.80	mg/L	99
35) 4-Chloro-3-methylphenol	8.70	107	490285	99.31	mg/L	92
36) 2-Methylnaphthalene	8.92	142	1179496	98.88	mg/L	99
38) Hexachlorocyclopentadiene	9.20	237	301383	99.78	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061885.D Vial: 10
Acq On : 26 Dec 2006 6:05 pm Operator: SC
Sample : 100PPM 8270 79-10 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:03:35 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

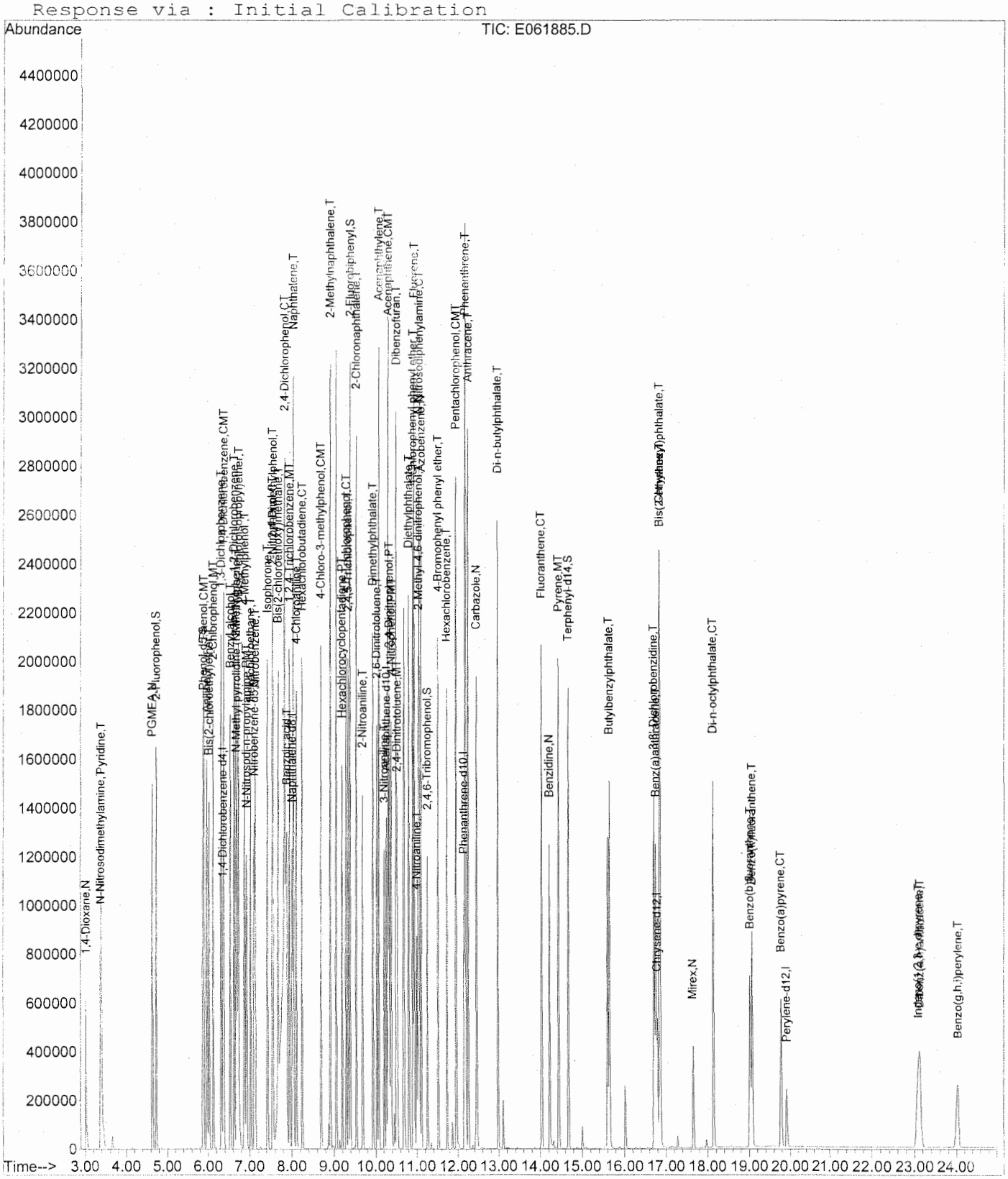
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.30	196	319376	102.22	mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	345765	102.28	mg/L	#	98
42)	2-Chloronaphthalene	9.54	162	1026959	98.93	mg/L		98
43)	2-Nitroaniline	9.70	65	346503	103.65	mg/L		93
44)	Dimethylphthalate	9.94	163	1160061	100.76	mg/L		97
45)	Acenaphthylene	10.08	152	1704728	100.66	mg/L		100
46)	2,6-Dinitrotoluene	10.03	165	282443	101.77	mg/L		93
47)	3-Nitroaniline	10.21	138	266125	110.55	mg/L		87
48)	Acenaphthene	10.31	154	1062954	91.10	mg/L		94
49)	2,4-Dinitrophenol	10.34	184	353330	108.54	mg/L	#	86
50)	4-Nitrophenol	10.39	109	289771	106.32	mg/L	#	45
51)	Dibenzofuran	10.51	168	1452933	99.74	mg/L		95
52)	2,4-Dinitrotoluene	10.54	165	361853	101.84	mg/L	#	97
53)	Fluorene	10.95	166	1212276	101.89	mg/L		99
54)	Diethylphthalate	10.81	149	1171118	99.99	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.91	204	516358	100.77	mg/L		94
56)	4-Nitroaniline	11.01	138	244574	115.03	mg/L	#	86
58)	2-Methyl-4,6-dinitrophenol	11.05	198	406377	101.67	mg/L	#	57
59)	N-Nitrosodiphenylamine	11.07	169	837997	105.84	mg/L		93
60)	Azobenzene	11.12	77	1146107	98.86	mg/L	#	93
62)	4-Bromophenyl phenyl ether	11.52	248	301973	100.69	mg/L		99
63)	Hexachlorobenzene	11.74	284	314663	100.52	mg/L		95
64)	Pentachlorophenol	11.97	266	451713	103.89	mg/L		98
65)	Phenanthrene	12.20	178	1566533	100.33	mg/L		99
66)	Anthracene	12.26	178	1565563	100.66	mg/L		100
67)	Carbazole	12.47	167	1196277	160.37	mg/L		99
68)	Di-n-butylphthalate	12.99	149	1786508	98.99	mg/L		98
69)	Fluoranthene	14.05	202	1378775	102.15	mg/L	#	93
71)	Benzidine	14.23	184	760629	100.77	mg/L	#	97
72)	Pyrene	14.45	202	1327467	91.48	mg/L		100
74)	Butylbenzylphthalate	15.66	149	608819	90.53	mg/L		96
75)	3,3'-Dichlorobenzidine	16.72	252	556137	129.70	mg/L	#	96
76)	Benz(a)anthracene	16.77	228	919735	100.50	mg/L		99
77)	Chrysene	16.86	228	843554	100.92	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.88	149	823207	91.94	mg/L		97
79)	Mirex	17.67	272	88570	91.52	mg/L		99
81)	Di-n-octylphthalate	18.15	149	1215079	79.89	mg/L		100
82)	Benzo(b)fluoranthene	19.03	252	654267	96.37	mg/L	#	94
83)	Benzo(k)fluoranthene	19.08	252	610855	96.53	mg/L	#	95
84)	Benzo(a)pyrene	19.79	252	535265	102.56	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.09	276	488879	123.90	mg/L	#	53
86)	Dibenz(a,h)anthracene	23.14	278	419877	122.97	mg/L	#	92
87)	Benzo(g,h,i)perylene	24.03	276	404725	125.01	mg/L	#	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061885.D Vial: 10
Acq On : 26 Dec 2006 6:05 pm Operator: SC
Sample : 100PPM 8270 79-10 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:03 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
ICAL Date: 12/26/2006
Date Analyzed: 12/26/2006

Second Source Calibration Verification
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL ID: CAL1241
Units: mg/L

File ID: C:\MSDCHEM\1\DATA\E061226\E061886.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	50	49	0.296	0.292	-1	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	50	50	1.54	1.55	1	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	50	50	1.61	1.61	0	NA	± 30 %	AverageRF
‡ 1,4-Dichlorobenzene	50	50	1.65	1.64	0	NA	± 30 %	AverageRF
1,4-Dioxane	50	48	0.586	0.558	-5	NA	± 30 %	AverageRF
2,4,5-Trichlorophenol	50	52	0.357	0.368	3	NA	± 30 %	AverageRF
‡ 2,4,6-Trichlorophenol	50	51	0.329	0.336	2	NA	± 30 %	AverageRF
‡ 2,4-Dichlorophenol	50	51	0.274	0.279	2	NA	± 30 %	AverageRF
2,4-Dimethylphenol	50	49	0.324	0.318	-2	NA	± 30 %	AverageRF
† 2,4-Dinitrophenol	100	110	0.173	0.189	10	NA	± 30 %	AverageRF
2,4-Dinitrotoluene	50	52	0.369	0.387	5	NA	± 30 %	AverageRF
2,6-Dinitrotoluene	50	54	0.289	0.313	8	NA	± 30 %	AverageRF
2-Chloronaphthalene	50	50	1.13	1.12	0	NA	± 30 %	AverageRF
2-Chlorophenol	50	50	1.47	1.46	-1	NA	± 30 %	AverageRF
2-Methyl-4,6-dinitrophenol	100	110	0.133	0.153	15	NA	± 30 %	AverageRF
2-Methylnaphthalene	50	50	0.707	0.703	-1	NA	± 30 %	AverageRF
2-Methylphenol	50	51	1.29	1.32	2	NA	± 30 %	AverageRF
2-Nitroaniline	50	53	0.347	0.369	7	NA	± 30 %	AverageRF
‡ 2-Nitrophenol	50	46	0.200	0.185	-8	NA	± 30 %	AverageRF
3,3'-Dichlorobenzidine	100	100	0.294	0.313	NA	5	± 30 %	Quadratic
3-Nitroaniline	50	56	0.238	0.291	NA	12	± 30 %	Quadratic
4-Bromophenyl Phenyl Ether	50	51	0.210	0.212	1	NA	± 30 %	AverageRF
4-Chloro-3-methylphenol	50	51	0.280	0.288	3	NA	± 30 %	AverageRF
4-Chloroaniline	50	56	0.366	0.413	13	NA	± 30 %	AverageRF
4-Chlorophenyl Phenyl Ether	50	51	0.555	0.562	1	NA	± 30 %	AverageRF
4-Methylphenol	50	52	1.64	1.69	3	NA	± 30 %	AverageRF
4-Nitroaniline	50	57	0.210	0.272	NA	14	± 30 %	Quadratic
† 4-Nitrophenol	100	110	0.142	0.157	11	NA	± 30 %	AverageRF
‡ Acenaphthene	50	53	1.21	1.29	7	NA	± 30 %	AverageRF
Acenaphthylene	50	47	1.83	1.71	-7	NA	± 30 %	AverageRF
Aniline	50	50	2.01	2.03	1	NA	± 30 %	AverageRF
Anthracene	50	51	1.10	1.11	1	NA	± 30 %	AverageRF
Benz(a)anthracene	50	52	1.16	1.21	4	NA	± 30 %	AverageRF
‡ Benzo(a)pyrene	50	52	1.14	1.19	5	NA	± 30 %	AverageRF
Benzo(b)fluoranthene	50	49	1.45	1.42	-2	NA	± 30 %	AverageRF
Benzo(g,h,i)perylene	50	53	0.762	0.801	5	NA	± 30 %	AverageRF
Benzo(k)fluoranthene	50	49	1.41	1.38	-2	NA	± 30 %	AverageRF
Benzoic acid	50	49	0.213	0.210	-1	NA	± 30 %	AverageRF
Benzyl alcohol	50	50	0.940	0.944	0	NA	± 30 %	AverageRF
bis(2-Chloroethoxy)methane	50	46	0.400	0.368	-8	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056
ICAL Date: 12/26/2006
Date Analyzed: 12/26/2006

Second Source Calibration Verification
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL ID: CAL1241
Units: mg/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Bis(2-chloroethyl) Ether	50	50	1.43	1.42	-1	NA	± 30 %	AverageRF
Bis(2-Chloroisopropyl)ether	50	42	2.73	2.28	-16	NA	± 30 %	AverageRF
Bis(2-ethylhexyl) Phthalate	50	53	1.01	1.07	6	NA	± 30 %	AverageRF
Butyl Benzyl Phthalate	50	51	0.778	0.801	3	NA	± 30 %	AverageRF
Chrysene	50	50	1.09	1.10	1	NA	± 30 %	AverageRF
Di-n-butyl Phthalate	50	53	1.23	1.30	6	NA	± 30 %	AverageRF
‡ Di-n-octyl Phthalate	50	53	2.58	2.74	6	NA	± 30 %	AverageRF
Dibenz(a,h)anthracene	50	51	0.795	0.811	2	NA	± 30 %	AverageRF
Dibenzofuran	50	49	1.58	1.56	-1	NA	± 30 %	AverageRF
Diethyl Phthalate	50	51	1.25	1.27	2	NA	± 30 %	AverageRF
Dimethyl Phthalate	50	51	1.24	1.26	2	NA	± 30 %	AverageRF
‡ Fluoranthene	50	54	0.954	1.02	7	NA	± 30 %	AverageRF
Fluorene	50	50	1.29	1.30	1	NA	± 30 %	AverageRF
Hexachlorobenzene	50	50	0.221	0.219	-1	NA	± 30 %	AverageRF
‡ Hexachlorobutadiene	50	51	0.155	0.158	2	NA	± 30 %	AverageRF
† Hexachlorocyclopentadiene	50	42	0.318	0.270	-15	NA	± 30 %	AverageRF
Hexachloroethane	50	50	0.606	0.608	0	NA	± 30 %	AverageRF
Indeno(1,2,3-cd)pyrene	50	55	0.924	1.01	9	NA	± 30 %	AverageRF
Isophorone	50	53	0.637	0.678	6	NA	± 30 %	AverageRF
† N-Nitrosodi-n-propylamine	50	52	0.967	1.00	4	NA	± 30 %	AverageRF
N-Nitrosodimethylamine	50	51	0.762	0.780	2	NA	± 30 %	AverageRF
‡ N-Nitrosodiphenylamine	50	45	0.571	0.519	-9	NA	± 30 %	AverageRF
Naphthalene	50	50	1.05	1.04	0	NA	± 30 %	AverageRF
Nitrobenzene	50	51	0.355	0.359	1	NA	± 30 %	AverageRF
‡ Pentachlorophenol	100	110	0.147	0.157	7	NA	± 30 %	AverageRF
Phenanthrene	50	49	1.12	1.09	-3	NA	± 30 %	AverageRF
‡ Phenol	50	50	1.74	1.74	0	NA	± 30 %	AverageRF
Pyrene	50	48	1.73	1.67	-3	NA	± 30 %	AverageRF
Pyridine	50	48	1.52	1.47	-3	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2	N	1,4-Dioxane	0.586	0.558	4.8	91	0.00
3	T	N-Nitrosodimethylamine	0.762	0.780	-2.4	99	0.00
4	T	Pyridine	1.520	1.474	3.0	92	0.00
5	N	PGMEA	2.753	2.666	3.2	95	0.00
6	S	2-Fluorophenol	1.274	1.227	3.7	91	0.00
7	S	Phenol-d5	1.651	1.605	2.8	93	0.00
8	CMT	Phenol	1.739	1.735	0.2#	96	0.00
9	T	Aniline	2.014	2.030	-0.8	93	0.00
10	T	Bis(2-chloroethyl)ether	1.431	1.417	1.0	96	0.00
11	MT	2-Chlorophenol	1.474	1.459	1.0	94	0.00
12	T	1,3-Dichlorobenzene	1.613	1.608	0.3	96	0.00
13	CMT	1,4-Dichlorobenzene	1.647	1.640	0.4#	97	0.00
14	T	Benzyl alcohol	0.940	0.944	-0.4	94	0.00
15	T	1,2-Dichlorobenzene	1.537	1.545	-0.5	97	0.00
16	N	N-Methyl pyrrolidine (NMP)	0.935	0.950	-1.6	95	-0.03
17	T	2-Methylphenol	1.293	1.316	-1.8	97	0.00
18	T	Bis(2-chloroisopropyl)ether	2.729	2.281	16.4	82	0.00
19	T	4-Methylphenol	1.638	1.691	-3.2	98	0.00
20	PMT	N-Nitrosodi-n-propylamine	0.967	1.001	-3.5	97	0.00
21	T	Hexachloroethane	0.606	0.608	-0.3	96	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	97	0.00
23	S	Nitrobenzene-d5	0.338	0.339	-0.3	95	0.00
24	T	Nitrobenzene	0.355	0.359	-1.1	98	0.00
25	T	Isophorone	0.637	0.678	-6.4	100	0.00
26	CT	2-Nitrophenol	0.200	0.185	7.5#	92	0.00
27	T	2,4-Dimethylphenol	0.324	0.318	1.9	94	0.00
28	T	Benzoic acid	0.213	0.042#	80.3#	18#	-0.13
29	T	Bis(2-chloroethoxy)methane	0.400	0.368	8.0	89	0.00
30	CT	2,4-Dichlorophenol	0.274	0.279	-1.8#	97	0.00
31	MT	1,2,4-Trichlorobenzene	0.296	0.292	1.4	96	0.00
32	T	Naphthalene	1.048	1.043	0.5	98	0.00
33	T	4-Chloroaniline	0.366	0.413	-12.8	97	0.00
34	CT	Hexachlorobutadiene	0.155	0.158	-1.9#	98	0.00
35	CMT	4-Chloro-3-methylphenol	0.280	0.288	-2.9#	95	0.00
36	T	2-Methylnaphthalene	0.707	0.703	0.6	96	0.00
37	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
38	PT	Hexachlorocyclopentadiene	0.318	0.270	15.1	80	0.00
39	CT	2,4,6-Trichlorophenol	0.329	0.336	-2.1#	96	0.00
40	T	2,4,5-Trichlorophenol	0.357	0.368	-3.1	97	0.00
41	S	2-Fluorobiphenyl	1.261	1.232	2.3	95	0.00
42	T	2-Chloronaphthalene	1.127	1.123	0.4	97	0.00
43	T	2-Nitroaniline	0.347	0.369	-6.3	99	0.00
44	T	Dimethylphthalate	1.237	1.260	-1.9	98	0.00
45	T	Acenaphthylene	1.833	1.707	6.9	90	0.00
46	T	2,6-Dinitrotoluene	0.289	0.313	-8.3	101	0.00
47	T	3-Nitroaniline	0.238	0.291	-22.3#	108	0.00
48	CMT	Acenaphthene	1.208	1.290	-6.8#	99	0.00
49	PT	2,4-Dinitrophenol	0.173	0.189	-9.2	104	0.00
50	PMT	4-Nitrophenol	0.142	0.157	-10.6	103	0.00
51	T	Dibenzofuran	1.579	1.561	1.1	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	MT	2,4-Dinitrotoluene	0.369	0.387	-4.9	97	0.00
53	T	Fluorene	1.285	1.296	-0.9	97	0.00
54	T	Diethylphthalate	1.246	1.272	-2.1	97	0.00
55	T	4-Chlorophenyl phenyl ether	0.555	0.562	-1.3	98	0.00
56	T	4-Nitroaniline	0.210	0.272	-29.5#	114	0.00
57	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
58	T	2-Methyl-4,6-dinitrophenol	0.133	0.153	-15.0	10[illegible]	[illegible]
59	CT	N-Nitrosodiphenylamine	0.571	0.519	9.1#	92	0.00
60	N	Azobenzene	0.818	0.813	0.6	98	0.00
61	S	2,4,6-Tribromophenol	0.096	0.095	1.0	94	0.00
62	T	4-Bromophenyl phenyl ether	0.210	0.212	-1.0	99	0.00
63	T	Hexachlorobenzene	0.221	0.219	0.9	98	0.00
64	CMT	Pentachlorophenol	0.147	0.157	-6.8#	101	0.00
65	T	Phenanthrene	1.120	1.086	3.0	98	0.00
66	T	Anthracene	1.095	1.108	-1.2	100	0.00
67	N	Carbazole	0.702	0.618	12.0	116	0.00
68	T	Di-n-butylphthalate	1.226	1.300	-6.0	101	0.00
69	CT	Fluoranthene	0.954	1.022	-7.1#	106	0.00
70	I	Chrysene-d12	1.000	1.000	0.0	122	0.01
71	N	Benzidine	0.506	0.437	13.6	110	0.00
72	MT	Pyrene	1.729	1.672	3.3	109	0.00
73	S	Terphenyl-d14	1.118	1.086	2.9	109	0.00
74	T	Butylbenzylphthalate	0.778	0.801	-3.0	113	0.00
75	T	3,3'-Dichlorobenzidine	0.294	0.313	-6.5	138	0.00
76	T	Benz(a)anthracene	1.162	1.209	-4.0	125	0.00
77	T	Chrysene	1.091	1.100	-0.8	124	0.00
78	T	Bis(2-ethylhexyl)phthalate	1.010	1.068	-5.7	113	0.00
79	N	Mirex	0.217	0.218	-0.5	106	0.00
80	I	Perylene-d12	1.000	1.000	0.0	150#	0.01
81	CT	Di-n-octylphthalate	2.579	2.739	-6.2#	121	0.00
82	T	Benzo(b)fluoranthene	1.451	1.421	2.1	140	0.01
83	T	Benzo(k)fluoranthene	1.406	1.380	1.8	146	0.00
84	CT	Benzo(a)pyrene	1.143	1.195	-4.5#	153#	0.00
85	T	Indeno(1,2,3-c,d)pyrene	0.924	1.010	-9.3	172#	0.01
86	T	Dibenz(a,h)anthracene	0.795	0.811	-2.0	159#	0.00
87	T	Benzo(g,h,i)perylene	0.762	0.801	-5.1	166#	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 13
E061886.D BA061226.M Wed Dec 27 09:55:13 2006 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:53:42 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	180197	40.00	mg/L	0.00
22) Naphthalene-d8	8.01	136	728348	40.00	mg/L	0.00
37) Acenaphthene-d10	10.26	164	402334	40.00	mg/L	0.00
57) Phenanthrene-d10	12.15	188	621200	40.00	mg/L	0.00
70) Chrysene-d12	16.80	240	371626	40.00	mg/L	0.01
80) Perylene-d12	19.92	264	214998	40.00	mg/L	0.01
System Monitoring Compounds						
6) 2-Fluorophenol	4.73	112	276424	48.18	mg/L	0.00
Spiked Amount 50.000			Recovery = 96.36%			
7) Phenol-d5	5.87	99	361574	48.63	mg/L	0.00
Spiked Amount 50.000			Recovery = 97.26%			
23) Nitrobenzene-d5	7.11	82	308365	50.11	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.21%			
41) 2-Fluorobiphenyl	9.39	172	619355	48.82	mg/L	0.00
Spiked Amount 50.000			Recovery = 97.64%			
61) 2,4,6-Tribromophenol	11.26	330	74112	49.74	mg/L	0.00
Spiked Amount 50.000			Recovery = 99.48%			
73) Terphenyl-d14	14.69	244	504285	48.55	mg/L	0.00
Spiked Amount 50.000			Recovery = 97.10%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	125675	47.62	mg/L #	59
3) N-Nitrosodimethylamine	3.37	42	175675	51.20	mg/L	89
4) Pyridine	3.39	79	332031	48.48	mg/L #	46
5) PGMEA	4.64	43	600554	48.42	mg/L #	87
8) Phenol	5.89	94	390911	49.90	mg/L	93
9) Aniline	5.97	93	457182	50.40	mg/L	99
10) Bis(2-chloroethyl)ether	6.03	93	319124	49.51	mg/L	91
11) 2-Chlorophenol	6.12	128	328701	49.50	mg/L	98
12) 1,3-Dichlorobenzene	6.31	146	362129	49.83	mg/L	99
13) 1,4-Dichlorobenzene	6.38	146	369441	49.78	mg/L	100
14) Benzyl alcohol	6.53	108	212727	50.24	mg/L #	77
15) 1,2-Dichlorobenzene	6.62	146	348099	50.28	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.65	99	213982m	50.81	mg/L	
17) 2-Methylphenol	6.69	108	296529	50.89	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.73	45	513709	41.79	mg/L #	85
19) 4-Methylphenol	6.86	107	380836	51.62	mg/L #	92
20) N-Nitrosodi-n-propylamine	6.92	70	225458	51.76	mg/L #	76
21) Hexachloroethane	7.03	117	136884	50.14	mg/L #	78
24) Nitrobenzene	7.13	77	327046	50.57	mg/L #	78
25) Isophorone	7.42	82	617087	53.21	mg/L	94
26) 2-Nitrophenol	7.54	139	168059	46.14	mg/L #	85
27) 2,4-Dimethylphenol	7.55	122	289242	49.03	mg/L #	83
28) Benzoic acid	7.69	122	191562	49.36	mg/L #	81
29) Bis(2-chloroethoxy)methane	7.68	93	335457	46.04	mg/L #	87
30) 2,4-Dichlorophenol	7.83	162	254370	50.90	mg/L	97
31) 1,2,4-Trichlorobenzene	7.95	180	265530	49.33	mg/L	99
32) Naphthalene	8.04	128	949809	49.78	mg/L	100
33) 4-Chloroaniline	8.11	127	375569	56.31	mg/L	96
34) Hexachlorobutadiene	8.25	225	144013	50.87	mg/L	99
35) 4-Chloro-3-methylphenol	8.69	107	262431	51.40	mg/L	92
36) 2-Methylnaphthalene	8.92	142	639830	49.68	mg/L	99
38) Hexachlorocyclopentadiene	9.19	237	135974	42.48	mg/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D
Acq On : 26 Dec 2006 6:38 pm
Sample : 50PPM 8270 ICV 79-11
Misc :
MS Integration Params: rteint.p
Quant Time: Dec 27 09:53:42 2006

Vial: 11
Operator: SC
Inst : MSE
Multiplr: 1.00
Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	168783	50.93	mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	185233	51.58	mg/L		97
42)	2-Chloronaphthalene	9.54	162	564990	49.82	mg/L		98
43)	2-Nitroaniline	9.69	65	185706	53.28	mg/L		93
44)	Dimethylphthalate	9.93	163	633622	50.94	mg/L		96
45)	Acenaphthylene	10.08	152	858427	46.56	mg/L		100
46)	2,6-Dinitrotoluene	10.02	165	157615	54.20	mg/L		93
47)	3-Nitroaniline	10.21	138	146236	56.14	mg/L		87
48)	Acenaphthene	10.31	154	648627	53.36	mg/L		85
49)	2,4-Dinitrophenol	10.33	184	190419	109.68	mg/L	#	1
50)	4-Nitrophenol	10.37	109	158307	111.09	mg/L	#	42
51)	Dibenzofuran	10.50	168	784969	49.41	mg/L		95
52)	2,4-Dinitrotoluene	10.52	165	194479	52.34	mg/L	#	68
53)	Fluorene	10.94	166	651741	50.41	mg/L		99
54)	Diethylphthalate	10.81	149	639610	51.05	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.91	204	282500	50.60	mg/L		95
56)	4-Nitroaniline	10.99	138	136816	57.07	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	11.04	198	238123	114.92	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.06	169	402668	45.40	mg/L		91
60)	Azobenzene	11.11	77	630975	49.69	mg/L	#	88
62)	4-Bromophenyl phenyl ether	11.52	248	164779	50.50	mg/L		99
63)	Hexachlorobenzene	11.74	284	170196	49.55	mg/L		96
64)	Pentachlorophenol	11.96	266	243361	106.90	mg/L		98
65)	Phenanthrene	12.19	178	843371	48.50	mg/L		100
66)	Anthracene	12.25	178	860692	50.59	mg/L		99
67)	Carbazole	12.46	167	479910	53.15	mg/L		99
68)	Di-n-butylphthalate	12.98	149	1009143	53.02	mg/L		99
69)	Fluoranthene	14.04	202	793371	53.55	mg/L	#	94
71)	Benzidine	14.23	184	406231	86.41	mg/L	#	97
72)	Pyrene	14.45	202	776811	48.37	mg/L		100
74)	Butylbenzylphthalate	15.66	149	372003	51.47	mg/L		94
75)	3,3'-Dichlorobenzidine	16.72	252	290474	104.61	mg/L	#	98
76)	Benz(a)anthracene	16.76	228	561596	52.02	mg/L		99
77)	Chrysene	16.85	228	510884	50.42	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.87	149	496299	52.91	mg/L		98
79)	Mirex	17.66	272	50528	25.03	mg/L		100
81)	Di-n-octylphthalate	18.14	149	736000	53.09	mg/L		100
82)	Benzo(b)fluoranthene	19.02	252	381989	48.99	mg/L	#	95
83)	Benzo(k)fluoranthene	19.08	252	370990	49.09	mg/L	#	94
84)	Benzo(a)pyrene	19.78	252	321083	52.27	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.08	276	271480	54.68	mg/L	#	55
86)	Dibenz(a,h)anthracene	23.12	278	217917	50.97	mg/L	#	92
87)	Benzo(g,h,i)perylene	24.01	276	215195	52.55	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 ph (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

January 29, 2007 Service Request No: D0700056

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road
Suite 200
San Diego, CA 92127

RE: TDY/SC0307

Dear Brian:

Enclosed are the results of the sample(s) submitted to our laboratory on January 13, 2007. For your reference, these analyses have been assigned our service request number D0700056.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 123. You may also contact me via email at DBurnett@redding.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Douglas Burnett
Project Chemist

TABLE OF CONTENTS

CAS Service Request: D0700056
CAS Tier Level: IV

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Current CAS Redding Accreditation Programs

Federal and National Programs

- U.S Air Force, Air Force Center for Environmental Excellence (AFCEE)
  Approved laboratory for Wastewater and Hazardous Waste
- U.S. Army Corps of Engineers – MRD, HTRW Mandatory Center of Expertise
  Validated for Wastewater and Hazardous Waste
- Department of the Navy, Naval Facilities Engineering Service Center (NFESC)
  Approved laboratory for Wastewater and Hazardous Waste

State and Local Programs

- State of Alaska, Department of Environmental Conservation
  Approved Laboratory for Contaminated Sites
  Lab ID UST-001
- State of Arizona, Department of Health Services, Office of Laboratory Licensure
  Approved Laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID AZ0604
- State of California, Department of Health Services, National Environmental Laboratory Accreditation Program **(NELAP)**
  Approved Laboratory for Drinking Water, Wastewater and Hazardous Waste
  Lab ID 01105CA
  - Los Angeles County Sanitation District
    Approved Laboratory for Wastewater
    Lab ID 10243
- State of California, Department of Health Services, Environmental Laboratory Accreditation Program (ELAP)
  Approved Laboratory for Microbiology of Drinking Water and Wastewater
  Lab ID 2635
- State of Florida, Department of Health, Bureau of Laboratories **(NELAP)**
  Approved Environmental Testing Laboratory for Wastewater and Hazardous Waste
  Lab ID E87203
- State of Kansas, Department of Health and Environment **(NELAP)**
  Approved Laboratory for Hazardous Waste
  Lab ID E-10323
- State of Massachusetts, Department of Environmental Protection
  Approved laboratory for Drinking Water and Wastewater
  Lab ID M-CA025
- State of Oklahoma, Department of Environmental Quality
  Approved Laboratory for General Water Quality/Sludge Testing
  Lab ID 9952
- State of Oregon, Environmental Laboratory Accreditation Program **(ORELAP)**
  Approved Laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID CA200004
- State of Utah, Department of Health, Bureau of Laboratory Improvement **(NELAP)**
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID QUAL1
- State of Washington, Department of Ecology
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID C1234
- State of Wisconsin, Department of Natural Resources
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID 999767340

CAS/Redding: Data Qualifiers

Organic Analyses

A -- This qualifier indicates that a Tentatively Identified Compound (TIC) is a suspected aldol-condensation product.

B -- This qualifier is used when the analyte is found in the associated blank as well as the sample, indicating possible blank contamination. The data user should carefully evaluate the qualified analyte and the reported concentrations.

C -- This qualifier indicates the presence of this compound has been confirmed by the GC/MS analysis.

D -- This qualifier is used for all the analytes identified in an analysis at a secondary dilution factor. "D" qualifiers are used only for the samples reported at more than one dilution factor.

E -- This qualifier indicates that the value reported exceeds the linear calibration range for that analyte. Therefore, the sample should be reanalyzed at the appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

J -- Indicates an estimated value. This qualifier is used when the data indicates the presence of a target analyte below the reporting limit or the presence of a Tentatively Identified Compound (TIC).

N -- This qualifier indicates presumptive evidence of an analyte. This flag is only used for Tentatively Identified Compounds (TIC) where the identification is based on a mass spectral library research. It is applied to all TIC results. For generic characterization of a TIC, such as a chlorinated hydrocarbon, the "N" qualifier is not used.

P -- This qualifier is used for target analytes when there is a greater than 40% difference for detected concentrations between the two columns or detectors. The concentration value is reported on Form I and flagged with a "P".

U -- Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustments when indicated.

DL -- Diluted reanalysis. "DL" indicates that the results were determined in an analysis of a secondary dilution of a sample or extract. A digit to indicate multiple dilutions of the sample or extract may follow the "DL" suffix. The results of more than one diluted reanalysis may be reported.

MS -- Matrix spike (may be followed by a digit to indicate multiple matrix spikes within a sample set).

MSD -- Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spikes within a sample set).

R -- Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. It may be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE -- Re-extraction and reanalysis. The sample was re-extracted and reanalyzed. It may be followed by a digit to indicate multiple re-extracted analysis of the same sample at the same dilution.

Metals and Wet Chemistry Analyses

B/J -- The reported value obtained was less than the MRL/CRDL, but greater than or equal to the MDL/IDL.

U -- The value was less than the MDL/IDL or was not detected.

E -- The reported value is estimate because of interference.

N -- Spiked sample recovery not within control limits.

ND -- Not detected at or above the MRL/CRDL.

* -- Duplicate analysis not within control limits.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0700056

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
D0700056-001	BLD120-MW-1	01/09/07	09:59
D0700056-002	BLD120-MW-6	01/09/07	12:04
D0700056-003	QCEB	01/09/07	14:10
D0700056-004	BLD120-MW-2	01/09/07	15:41
D0700056-005	BLD120-MW-3	01/09/07	17:04
D0700056-006	BLD120-MW-4	01/10/07	11:07
D0700056-007	BLD120-MW-5	01/10/07	13:36
D0700056-008	BLD102-MW-4	01/10/07	15:09
D0700056-009	MWCL-1	01/10/07	17:32
D0700056-010	MWCL-2	01/11/07	09:10
D0700056-011	MWCL-3	01/11/07	12:30
D0700056-012	MWCL-4	01/11/07	14:03
D0700056-013	MWCL-6	01/11/07	15:39
D0700056-014	MWCL-7	01/12/07	10:25
D0700056-015	MWCL-5	01/12/07	14:57
D0700056-016	MWCL-8	01/12/07	16:40

CASE NARRATIVE

CHAIN OF CUSTODY DOCUMENTATION

Document Number: 1654

Analysis Request and Chain of Custody Record

Project Name: TDY	Project Number: SC0307	
Samplers Names: JRinehart CLeider	Project Contact: Brian Hitchens	
Laboratory Name: Columbia Analytical	Lab Contact:	
Lab Address:	Lab Phone:	
	Carrier/Waybill No.	

Page 1 of 2

W [redacted]

Yellow copy: field copy

Sample Name	Date	Time	Sample Type	Required Analyses: VOCs by 8260	Metals	SVOCs by 8270	TPH 8015	Bottle Type and Volume/Preservative: 3 VOA	1L AMBER	3 VOA	Number of Containers	Comments	Lab Use Only: Condition of Bottles
BLD120-MW-1	1/9/07	9:59	GW	3		1	3					1	
BLD120-MW-6	1/9/07	12:04	GW	3		1	3					2	
QCEB	1/9/07	14:10	GW	3								3	
BLD120-MW-2	1/9/07	15:41	GW	3		1	3					4	
BLD120-MW-3	1/9/07	17:04	GW	3		1	3					5	
BLD120-MW-4	1/10/07	11:07	GW	3		1	3					6	
BLD120-MW-5	1/10/07	13:36	GW	3		1	3					7	
BLD102-MW-4	1/10/07	15:09	GW	3		1	3					8	
MWCL-1	1/10/07	17:32	GW	3		1	3					9	
MWCL-2	1/11/07	9:10	GW	3		1	3					10	
MWCL-3	1/11/07	12:30	GW	3		1	3					11	
MWCL-4	1/11/07	14:03	GW	3		1	3					12	

Special Instructions:

Turn-around Time:
☐ Normal ☐ Rush: _____

1. Relinquished by (Signature/Affiliation)	Date: 1/12/07 Time: 17:45	1. Received by (Signature/Affiliation) JOEL R JOHNSON CAS	Date: 1/13/07 Time: 1005
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Analysis Request and Chain of Custody Record

Continued from Document Number: 1654

Page 2 of 2

Project Name: TDY

Project Number: SC0307

Wh [redacted]

Yellow copy: field copy

Sample Name	Date	Time	Sample Type	Required Analyses: VOCs by ____	Metals	SVOCs by 8270	TPH 8015	PCBs						Comments	Lab Use Only: Condition of Bottles
				Bottle Type and Volume/Preservative: 40 ml VOA		1L Amber	40 ml VOA	1L Amber							
				Number of Containers											
MWCL-6	1/11/07	15:39	GW	3		1	3							13	
MWCL-7	1/12/07	10:25	GW	3		1	3							14	
MWCL-5	1/12/07	14:57	GW	3		1	3							15	
MWCL-8	1/12/07	16:40	GW	3		1	3	1						16	

Columbia Analytical Services inc.
An Employee-Owned Company

[redacted]

5090 Caterpillar Road
Redding, CA 96003
Phone: (530) 244-5262
Fax #: (530) 244-4109

COOLER RECEIPT FORM

Project/Client: GEO SYNTEC CONSULTANTS Batch No.:

1. Cooler(s)/Sample(s) received on: 4/13/07 Shipped via: UPS
   Shipping Bill # (s): # of Coolers/Packages 3
2. Radiological Screening by: J JOHNSON Acceptable Rejected
3. Custody seals on outside of cooler: YES (NO) N/A
   If yes, where? Front_____ Rear_____ Lt Side_____ Rt Side_____
   Seals intact: YES (NO)

COOLER/SAMPLE PROCESSING

4. Sample Processing/Tagging by: JOEL JOHNSON
5. Cooler(s)/Sample(s) Temp's: 3°C 1°C 5°C _____ _____
   (or)
   Temp. Blank (if included): _____ _____ _____ _____ _____
6. Type of packing material (circle): (Ice) Blue Ice (Bubble Wrap) (Bubble Bags) (Zip Locks) (Webbing)
   Other:
7. Custody papers properly filled out (ink, signed, dated, released, etc.)? (YES) NO
8. Containers arrived in good condition (not broken, leaking, etc.)? YES (NO)
9. Samples received with adequate holding time remaining to conduct analysis? (YES) NO
10. Container labels complete (i.e. analysis, preservation, date/time, etc.)? (YES) NO
11. Container labels and tags agree with custody papers? (YES) NO
12. Correct types of containers used for the tests indicated? (YES) NO
    a.) Adequate sample received? If not, note on Exception Report. (YES) NO
13. Containers supplied by: (CAS) Other
14. Preserved containers received with the appropriate preservative? (YES) NO (N/A)
    pH: VOAs @ <2 PER DOCS (or) See pH log.
15. VOA vials free of air bubbles? (YES) NO N/A
16. Trip Blank preparation date: _____ CAS Other (N/A)
17. Volatile Soil samples: Encores or Plugs in Vials
    Freezer or GC/MS Date:_____ Time:_____ (N/A)

See Exception Report for discrepancies.

Rev. 8/18/2004/ds

Columbia Analytical Services INC.
An Employee - Owned Company

5090 Caterpillar Road
Redding, CA 96003
530-244-5227
FAX 530-244-4109

BATCH:

CLIENT: GeoSYNTEC

PROJECT: [redacted]

SAMPLE RECEIPT EXCEPTION REPORT

Issue Type Legend	
	1) Holding Time
	2) Temperature
	3) COC/Label
	4) Container
	5) Other

SMO Technician / Date: JOEL JOHNSON 1/13/07

Project Chemist / Date: (D) 1-13-07

Client Contact(s):

Item #	Issue Type	DESCRIPTION
1	4	SAMPLE # 11 FOR 8260 ARRIVED W/ 1 BROKEN CONTAINER.
	4	SAMPLE # 12 FOR 8015 ARRIVED W/ 1 BROKEN CONTAINER.

Corrective Actions Taken

1	OK. Does not alter analytical work.

GC ORGANOCHLORINE PCBS

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056

Cover Page - Analysis Data Package
PolyChlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
MWCL-8	D0700056-016	01/12/2007	01/13/2007

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang
Name: WIDA ANG
Date: 1/19/07
Title: Organic Manager

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

PolyChlorinated Biphenyls (PCBs)

Sample Name: MWCL-8
Lab Code: D0700056-016
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.12	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1221	ND	U	0.21	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1232	ND	U	0.22	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1242	ND	U	0.078	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1248	ND	U	0.11	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1254	ND	U	0.040	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1260	ND	U	0.034	1.0	1	01/15/2007	01/18/2007	PWB10115	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	25	10-110	01/18/2007	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

PolyChlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: PWB10115
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.12	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1221	ND	U	0.21	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1232	ND	U	0.22	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1242	ND	U	0.078	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1248	ND	U	0.11	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1254	ND	U	0.040	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1260	ND	U	0.034	1.0	1	01/15/2007	01/18/2007	PWB10115	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	30	10-110	01/18/2007	

Comments: _____

Summary

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056

Surrogate Recovery Summary
PolyChlorinated Biphenyls (PCBs)

Prep Method: SW3520
Analysis Method: SW8082

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	PWB10115LCS		70
Laboratory Control Sample Duplicate	PWB10115LCSD		70
Method Blank	PWB10115		30
MWCL-8	D0700056-016		25

Surrogate Recovery Control Limits (%)

S1: Decachlorobiphenyl - SS 10-110

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0700056
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	01/15/2007
		Date Analyzed:	01/18/2007

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
PolyChlorinated Biphenyls (PCBs)

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10115LCS / PWB10115LCSD	**Units:**	ug/L (ppb)
Extraction	SW3520		
Analysis Method:	SW8082		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Aroclor 1016	1.0	5.000	5.224	5.062	104	101	69-119	3	
Aroclor 1260	1.0	5.000	4.417	4.338	88	87	58-135	2	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Extracted: 01/15/2007
Date Analyzed: 01/18/2007
Time Analyzed: 18:30

Method Blank Summary
PolyChlorinated Biphenyls (PCBs)

Extaction Method: SW3520
Analysis Method: SW8082

Extraction Lot: PWB10115

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	PWB10115LCS	A0118016	01/18/2007	17:31
Laboratory Control Sample Duplicate	PWB10115LCSD	A0118017	01/18/2007	18:01
MWCL-8	D0700056-016	A0118020	01/18/2007	19:28

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 11/21/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 11/21/2006GCA
Instrument ID: GCA

Column: RTX-CLP

Level ID	File ID
A	A1121019
B	A1121020
C	A1121021
D	A1121022
E	A1121023
F	A1121024

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Decachlorobiphenyl	A	0.005	17829	B	0.020	8721	C	0.050	7597	D	0.100	7728	E	0.150	7585
	F	0.200	7471												
Tetrachloro-m-xylene	A	0.005	19202	B	0.020	10478	C	0.050	9860	D	0.100	10263	E	0.150	10166
	F	0.200	10007												
Aroclor 1221										D	0.500	140.9			
Aroclor 1232										D	0.500	244.7			
Aroclor 1242										D	0.500	170.5			
Aroclor 1248										D	0.500	370.5			
Aroclor 1254										D	0.500	497.3			

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 11/21/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 11/21/2006GCA
Instrument ID: GCA

Column: RTX-CLP

Level ID	File ID
A	A1121019
B	A1121020
C	A1121021
D	A1121022
E	A1121023

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Aroclor 1016	A	0.025	368.7	B	0.100	214.1	C	0.250	194.3	D	0.500	182.3	E	0.750	181.2
	F	1.000	178.0												
Aroclor 1260	A	0.025	788.8	B	0.100	405.7	C	0.250	365.7	D	0.500	354.7	E	0.750	351.6
	F	1.000	346.8												

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 11/21/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 11/21/2006GCA
Instrument ID: GCA
Mean RSD: 1.00

Column: RTX-CLP

			Calibration Evaluation			
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
Decachlorobiphenyl	SUR	Linear	r	1.000		0.995
Tetrachloro-m-xylene	TRG	Linear	r	1.000		0.995
Aroclor 1221	TRG	AverageRF	% RSD	0.0		20.0
Aroclor 1232	TRG	AverageRF	% RSD	0.0		20.0
Aroclor 1242	TRG	AverageRF	% RSD	0.0		20.0
Aroclor 1248	TRG	AverageRF	% RSD	0.0		20.0
Aroclor 1254	TRG	AverageRF	% RSD	0.0		20.0

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 11/21/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 11/21/2006GCA
Instrument ID: GCA
Mean RSD: 1.00

Column: RTX-CLP

			Calibration Evaluation			
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
Aroclor 1016	TRG	Linear	r	1.000		0.995
Aroclor 1260	TRG	Linear	r	1.000		0.995

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 11/21/2006

Second Source Calibration Verification
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 11/21/2006GCA
Instrument ID: GCA
File ID: A1121025

Column: RTX-CLP

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl	0.100	0.100	0.100	0.100	NA	0.2	+/- 15.0	Linear	
Aroclor 1016	0.500	0.538	0.538	0.500	NA	7.6	+/- 15.0	Linear	
Aroclor 1260	0.500	0.474	0.473	0.500	NA	-5.3	+/- 15.0	Linear	
Tetrachloro-m-xylene	0.100	0.100	0.100	0.100	NA	0.2	+/- 15.0	Linear	

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/18/2007

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 11/21/2006GCA
Instrument ID: GCA
File ID: A0118014

Column: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl	0.100	0.093	0.093	0.100	NA	-7.4	+/- 15.0	Linear	
Aroclor 1016	0.500	0.521	0.521	0.500	NA	4.2	+/- 15.0	Linear	
Aroclor 1260	0.500	0.488	0.488	0.500	NA	-2.3	+/- 15.0	Linear	
Tetrachloro-m-xylene	0.100	0.109	0.109	0.100	NA	8.8	+/- 15.0	Linear	

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/18/2007

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 11/21/2006GCA
Instrument ID: GCA
File ID: A0118022

Column: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl	0.150	0.144	0.144	0.150	NA	-4.2	+/- 15.0	Linear	
Aroclor 1016	0.750	0.774	0.774	0.750	NA	3.3	+/- 15.0	Linear	
Aroclor 1260	0.750	0.758	0.758	0.750	NA	1.1	+/- 15.0	Linear	
Tetrachloro-m-xylene	0.150	0.158	0.158	0.150	NA	5.1	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants **Service Request:** D0700056
Project: TDY

Analysis Run Log
PolyChlorinated Biphenyls (PCBs)

Analysis Method: SW8082 **Instrument ID:** GCA
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
A1121012	OSTD4 1221	OSTD4 1221	11/21/2006	11:55		11/21/2006	12:25
A1121013	OSTD4 1232	OSTD4 1232	11/21/2006	12:24		11/21/2006	12:54
A1121014	OSTD4 1242	OSTD4 1242	11/21/2006	12:53		11/21/2006	13:23
A1121015	OSTD4 1248	OSTD4 1248	11/21/2006	13:22		11/21/2006	13:52
A1121016	OSTD4 1254	OSTD4 1254	11/21/2006	13:51		11/21/2006	14:21
A1121017	OSTD4 1268	OSTD4 1268	11/21/2006	14:20		11/21/2006	14:50
A1121019	OSTD1 1660	OSTD1 1660	11/21/2006	15:19		11/21/2006	15:49
A1121020	OSTD2 1660	OSTD2 1660	11/21/2006	15:48		11/21/2006	16:18
A1121021	OSTD3 1660	OSTD3 1660	11/21/2006	16:17		11/21/2006	16:47
A1121022	OSTD4 1660	OSTD4 1660	11/21/2006	16:46		11/21/2006	17:16
A1121023	OSTD5 1660	OSTD5 1660	11/21/2006	17:15		11/21/2006	17:45
A1121024	OSTD6 1660	OSTD6 1660	11/21/2006	17:45		11/21/2006	18:15
A1121025	QCALTSTD	QCALTSTD	11/21/2006	18:14		11/21/2006	18:44
A0118014	OSTD4 1660	OSTD4 1660	01/18/2007	16:33		01/18/2007	17:03
A0118016	Laboratory Control Sample	PWB10115LCS	01/18/2007	17:31		01/18/2007	18:01
A0118017	Laboratory Control Sample Duplicate	PWB10115LCSD	01/18/2007	18:01		01/18/2007	18:31
A0118018	Method Blank	PWB10115	01/18/2007	18:30		01/18/2007	19:00
A0118020	MWCL-8	D0700056-016	01/18/2007	19:28		01/18/2007	19:58
A0118022	OSTD5 1660	OSTD5 1660	01/18/2007	20:26		01/18/2007	20:56

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Extracted: 01/15/2007

Extraction Prep Log
PolyChlorinated Biphenyls (PCBs)

Extaction Method: SW3520
Analysis Method: SW8082

Extraction Lot: PWB10115

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10115	NA	NA	1.000 L	10	NA	
Laboratory Control Sample	PWB10115LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10115LCSD	NA	NA	1.000 L	10	NA	
MWCL-8	D0700056-016	01/12/2007	01/13/2007	1.050 L	10	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants **Service Request:** D0700056
Project: TDY

Holding Time Summary
PolyChlorinated Biphenyls (PCBs)

Analysis Method: SW8082

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
MWCL-8	01/12/2007	01/13/2007	01/15/2007	7	3	N/A	N/A	N/A	01/18/2007	40	3	

Comments:_____

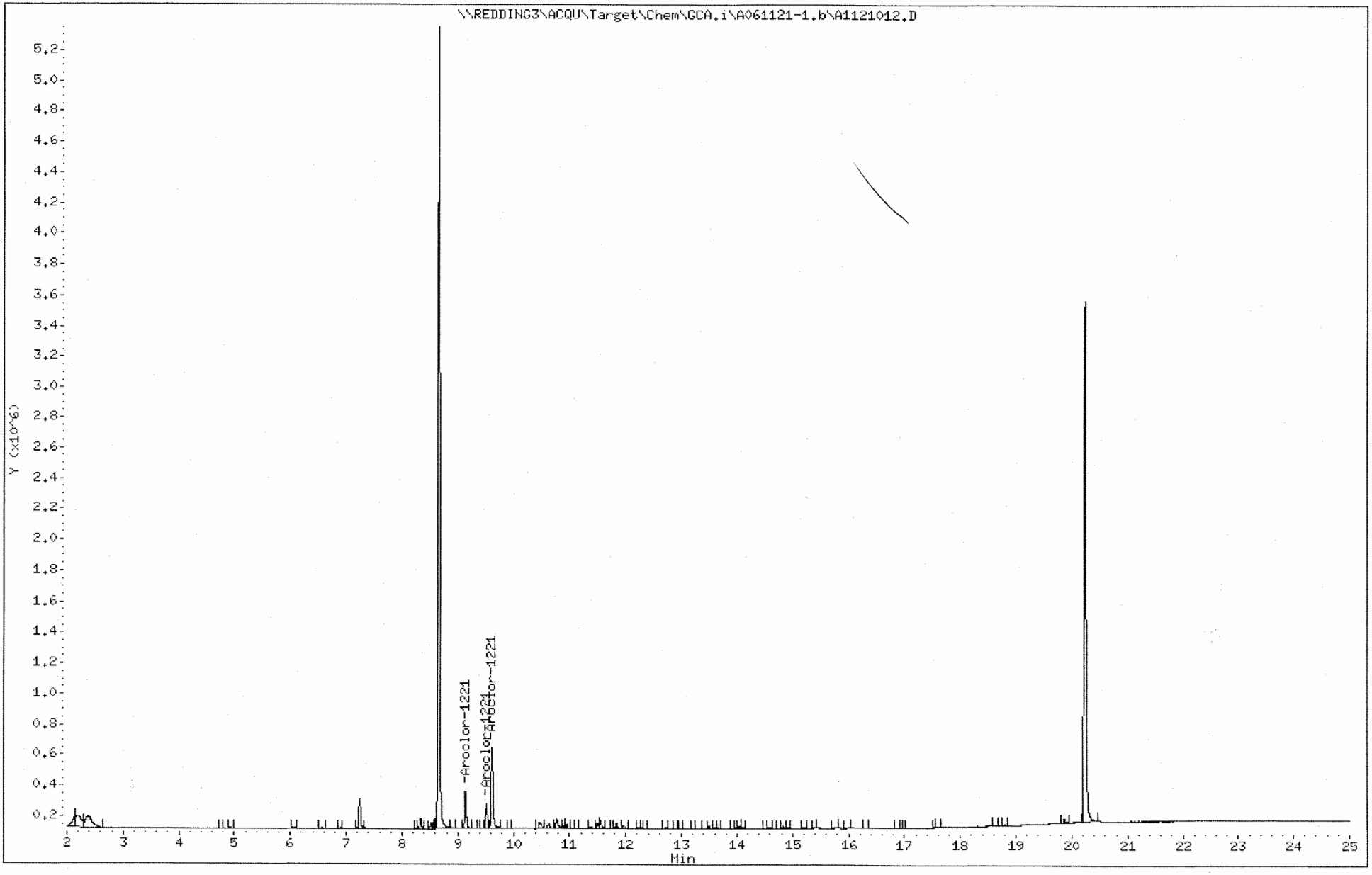
Standards Data

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121012.D
Date : 21-NOV-2006 11:55
Client ID: OSTD4 1221
Sample Info: OSTD4 1221

Instrument: gca.i

Operator: SW-846 8082
Column diameter: 0.32

Column phase: RTX-CLP



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121012.D
Lab Smp Id: OSTD4 1221 Client Smp ID: OSTD4 1221
Inj Date : 21-NOV-2006 11:55
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD4 1221
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1221.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO
5 Aroclor-1221					CAS #: 11104-28-2		
9.141	9.141	0.000	528261	0.50000	0.5000	80.00- 120.00	100.00(a)
9.516	9.516	0.000	337725	0.50000	0.5000	43.93- 83.93	63.93
9.617	9.617	0.000	1247067	0.50000	0.5000	216.07- 256.07	236.07
		Average of Peak Amounts =			0.50000		

QC Flag Legend

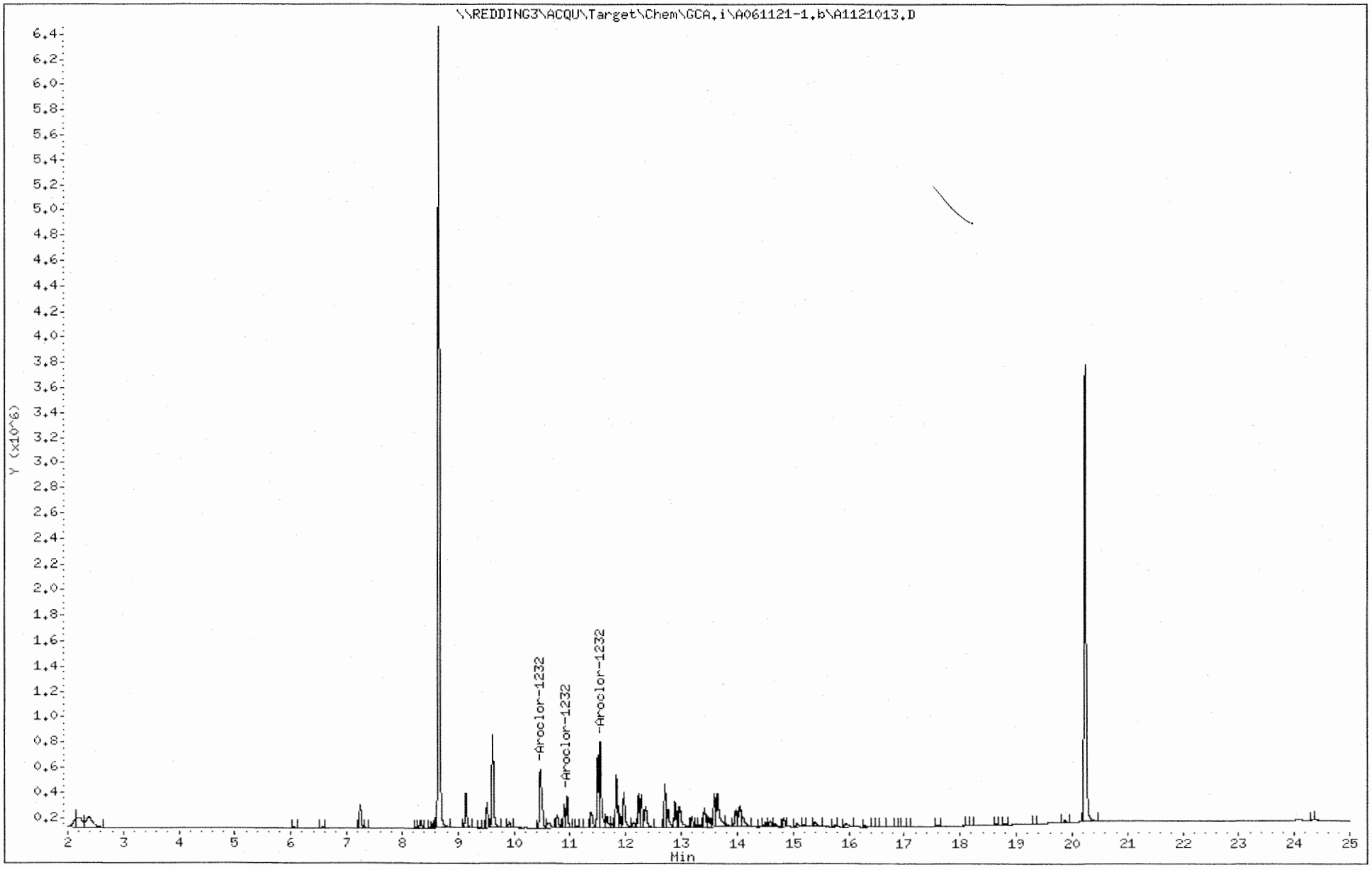
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121013.D
Date : 21-NOV-2006 12:24
Client ID: OSTD4 1232
Sample Info: OSTD4 1232

Instrument: gca.i

Operator: SW-846 8082
Column diameter: 0.32

Column phase: RTX-CLP



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121013.D
Lab Smp Id: OSTD4 1232 Client Smp ID: OSTD4 1232
Inj Date : 21-NOV-2006 12:24
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD4 1232
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1232.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO
6 Aroclor-1232					CAS #: 11141-16-5		
10.466	10.466	0.000	1440808	0.50000	0.5000	80.00- 120.00	100.00(a)
10.948	10.948	0.000	548751	0.50000	0.5000	18.09- 58.09	38.09
11.541	11.541	0.000	1681095	0.50000	0.5000	96.68- 136.68	116.68
		Average of Peak Amounts =			0.50000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121014.D

Date : 21-NOV-2006 12:53

Client ID: OSTD4 1242

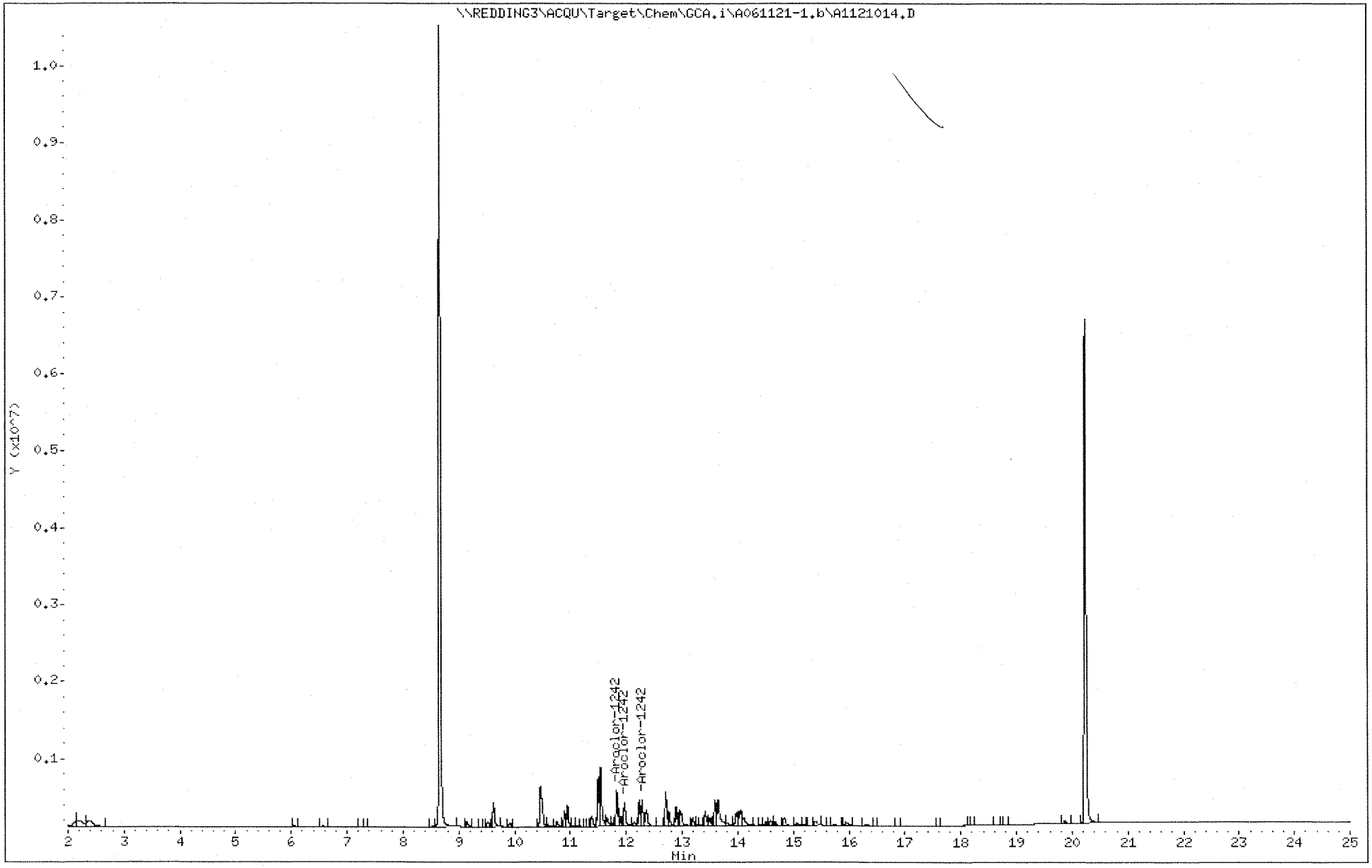
Sample Info: OSTD4 1242

Instrument: gca.i

Operator: SW-846 8082

Column phase: RTX-CLP

Column diameter: 0.32



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121014.D
Lab Smp Id: OSTD4 1242 Client Smp ID: OSTD4 1242
Inj Date : 21-NOV-2006 12:53
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD4 1242
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1242.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

11/22/06

				AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	TARGET RANGE	RATIO
7 Aroclor-1242					CAS #: 53469-21-9		
11.829	11.829	0.000	995977	0.50000	0.5000	80.00- 120.00	100.00(a)
11.966	11.966	0.000	827259	0.50000	0.5000	63.06- 103.06	83.06
12.283	12.283	0.000	733737	0.50000	0.5000	53.67- 93.67	73.67
		Average of Peak Amounts =			0.50000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121015.D

Date : 21-NOV-2006 13:22

Client ID: OSTD4 1248

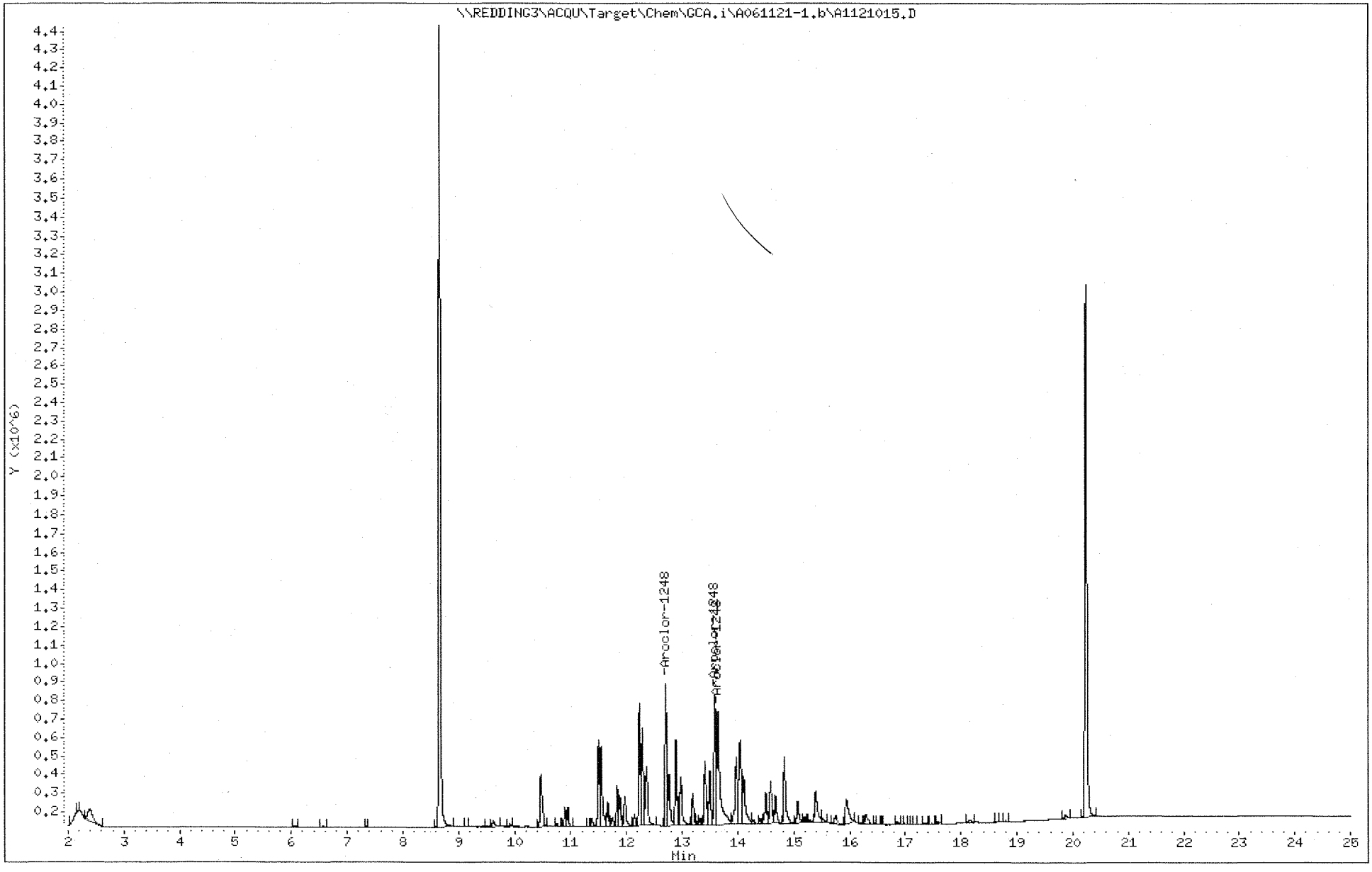
Sample Info: OSTD4 1248

Column phase: RTX-CLP

Instrument: gca.i

Operator: SW-846 8082

Column diameter: 0.32



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121015.D
Lab Smp Id: OSTD4 1248 Client Smp ID: OSTD4 1248
Inj Date : 21-NOV-2006 13:22
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD4 1248
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1248.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

11/22/06

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO
8 Aroclor-1248					CAS #: 12672-29-6		
12.706	12.706	0.000	1630005	0.50000	0.5000	80.00- 120.00	100.00
13.589	13.589	0.000	1705768	0.50000	0.5000	84.65- 124.65	104.65
13.646	13.646	0.000	2221398	0.50000	0.5000	116.28- 156.28	136.28
		Average of Peak Amounts =			0.50000		

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121016.D

Date : 21-NOV-2006 13:51

Client ID: OSTD4 1254

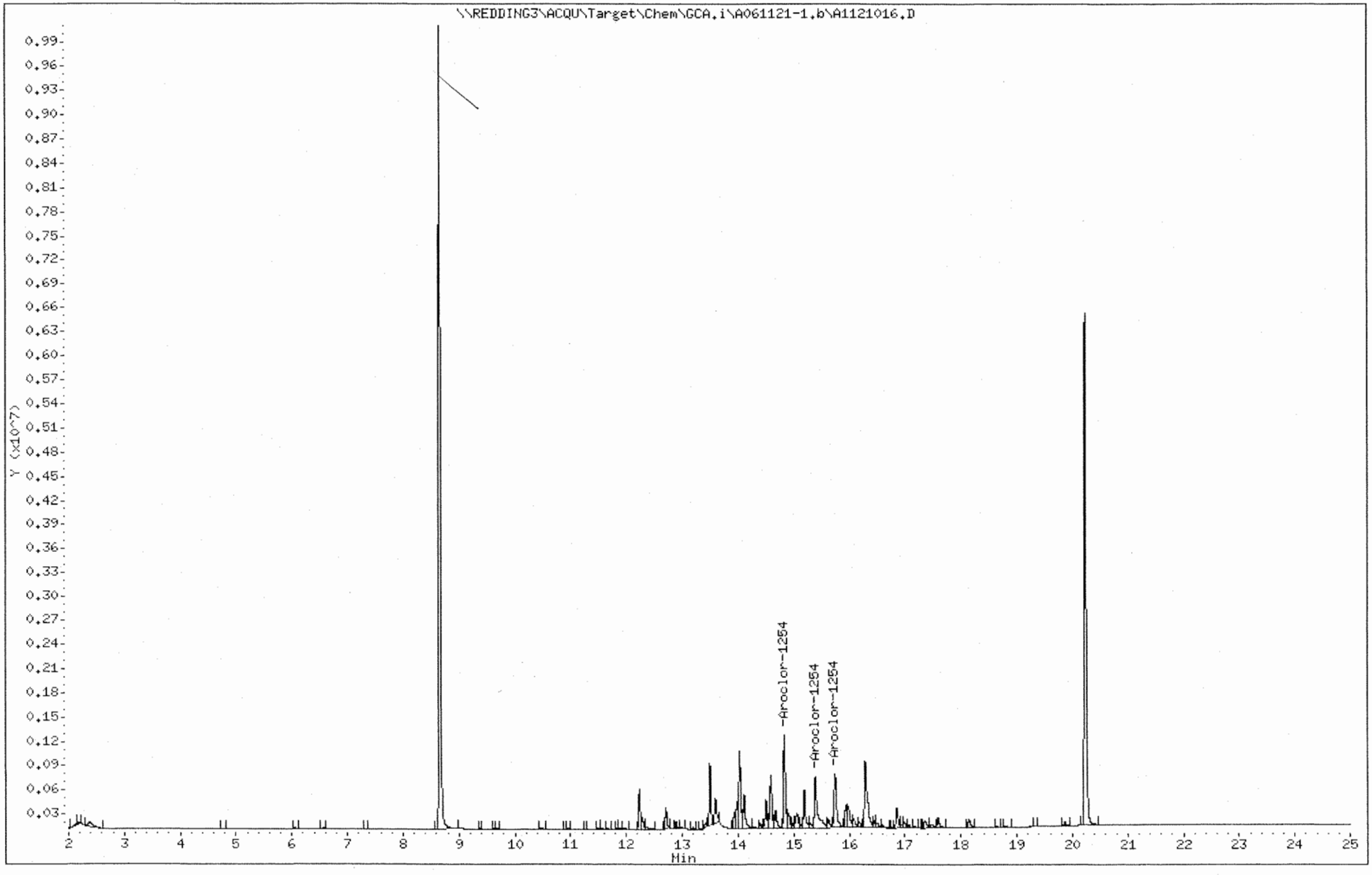
Sample Info: OSTD4 1254

Instrument: gca.i

Operator: SW-846 8082

Column phase: RTX-CLP

Column diameter: 0.32



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121016.D
Lab Smp Id: OSTD4 1254 Client Smp ID: OSTD4 1254
Inj Date : 21-NOV-2006 13:51
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD4 1254
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1254.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

11/22/06

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO
9 Aroclor-1254					CAS #: 11097-69-1		
14.831	14.831	0.000	2787860	0.50000	0.5000	80.00- 120.00	100.00(a)
15.388	15.388	0.000	2440414	0.50000	0.5000	67.54- 107.54	87.54
15.745	15.745	0.000	2230788	0.50000	0.5000	60.02- 100.02	80.02
		Average of Peak Amounts =		0.50000			

QC Flag Legend

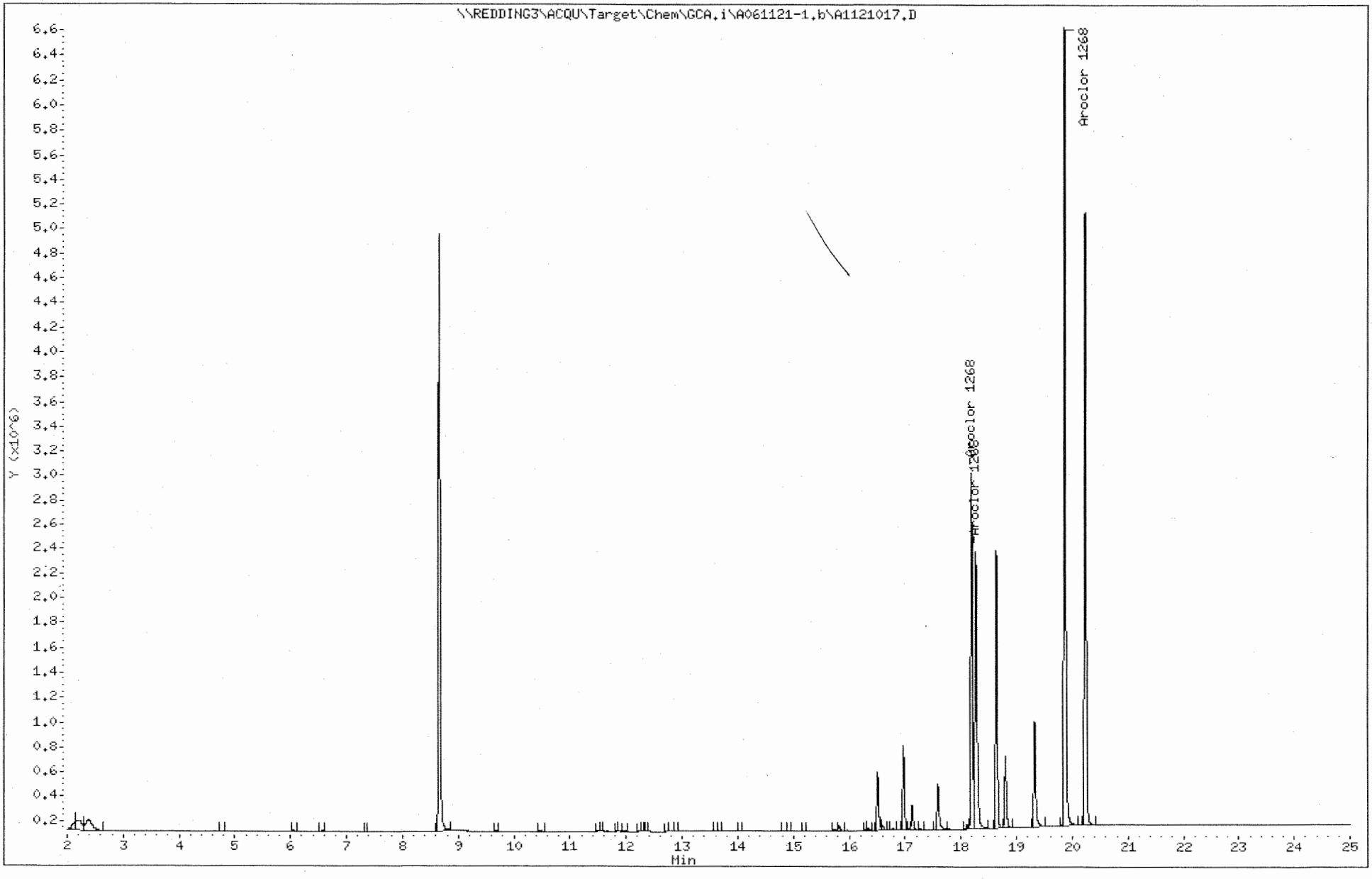
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121017.D
Date : 21-NOV-2006 14:20
Client ID: OSTD4 1268
Sample Info: OSTD4 1268

Instrument: gca.i

Operator: SW-846 8082
Column diameter: 0.32

Column phase: RTX-CLP



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121017.D
Lab Smp Id: OSTD4 1268 Client Smp ID: OSTD4 1268
Inj Date : 21-NOV-2006 14:20
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD4 1268
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1268.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

11/22/06

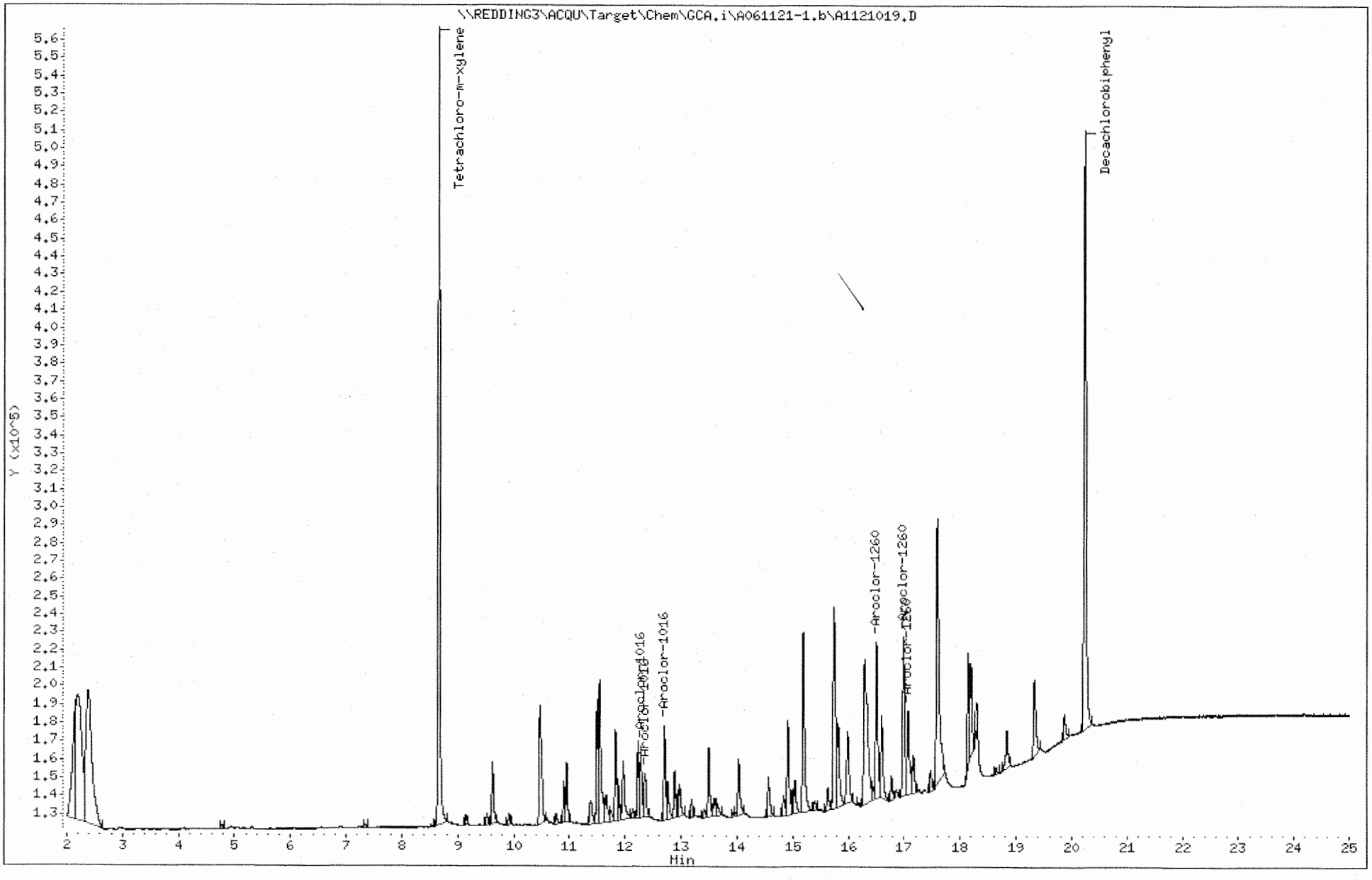
			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO
81 Aroclor 1268					CAS #: 11100-14-4		
18.195	18.195	0.000	6288798	0.50000	0.5000	80.00- 120.00	100.00
18.271	18.271	0.000	5883958	0.50000	0.5000	73.56- 113.56	93.56
19.868	19.868	0.000	14184072	0.50000	0.5000	205.55- 245.55	225.55
		Average of Peak Amounts =			0.50000		

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121019.D
Date : 21-NOV-2006 15:19
Client ID: OSTD1 1660
Sample Info: OSTD1 1660

Instrument: gca.i

Operator: SW-846 8082
Column diameter: 0.32

Column phase: RTX-CLP



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121019.D
Lab Smp Id: OSTD1 1660 Client Smp ID: OSTD1 1660
Inj Date : 21-NOV-2006 15:19
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD1 1660
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 18 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660CAL2.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

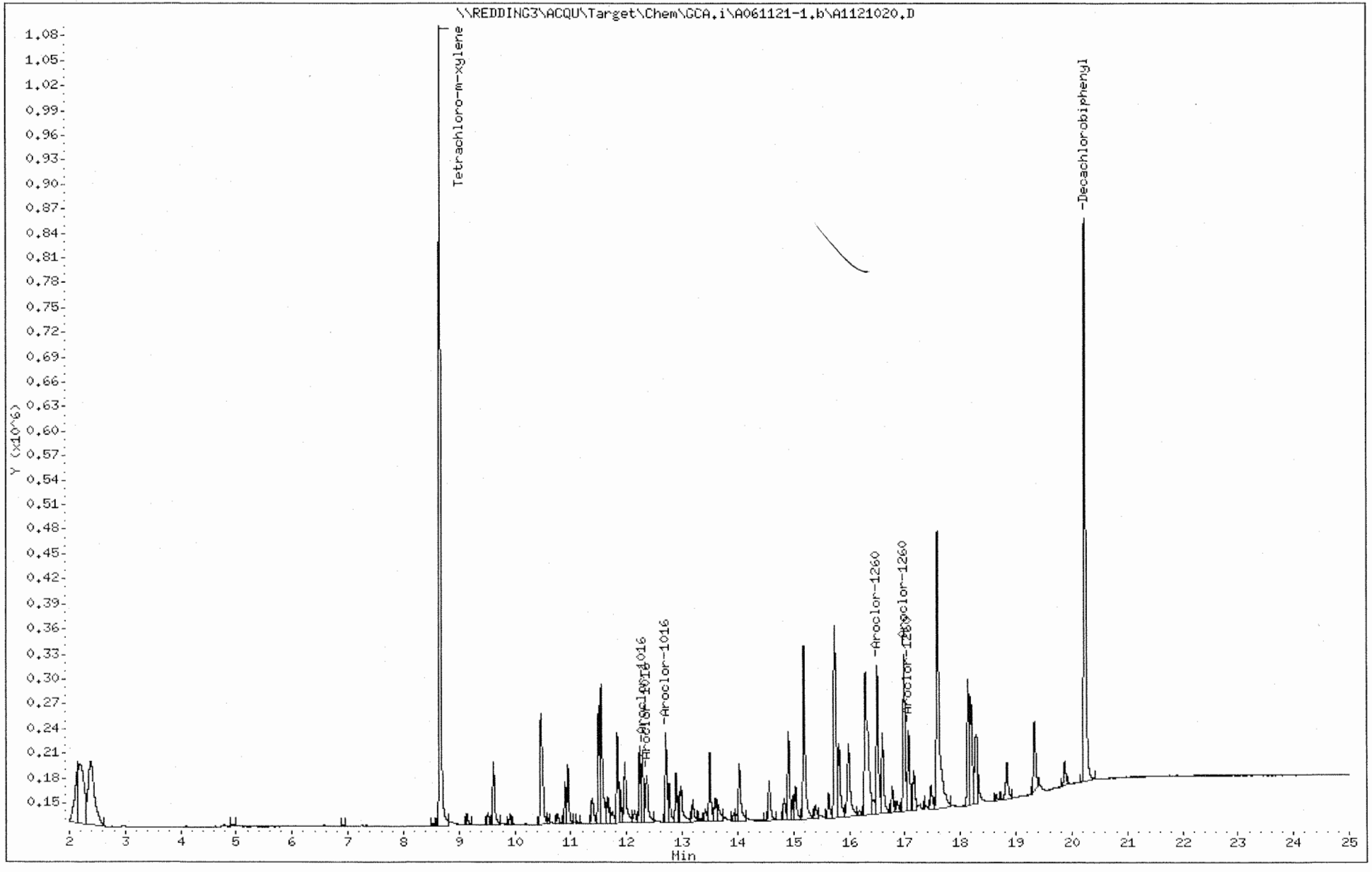
				AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	TARGET RANGE	RATIO
$ 3 Decachlorobiphenyl					CAS #: 2051-24-3		
20.241	20.241	0.000	891442	0.00500	0.009395		
$ 2 Tetrachloro-m-xylene					CAS #:		
8.662	8.662	0.000	960078	0.00500	0.008232		
4 Aroclor-1016					CAS #: 12674-11-2		
12.285	12.285	0.000	90446	0.02500	0.02535	80.00- 120.00	100.00(a)
12.360	12.360	0.000	71943	0.02500	0.01440	59.54- 99.54	79.54
12.708	12.708	0.000	114092	0.02500	0.03486	106.14- 146.14	126.14
Average of Peak Amounts =					0.02487		
10 Aroclor-1260					CAS #: 11096-82-5		
16.508	16.508	0.000	222793	0.02500	0.03079	80.00- 120.00	100.00
16.991	16.991	0.000	231121	0.02500	0.03519	83.74- 123.74	103.74
17.075	17.075	0.000	137711	0.02500	0.03420	41.81- 81.81	61.81
Average of Peak Amounts =					0.03339		

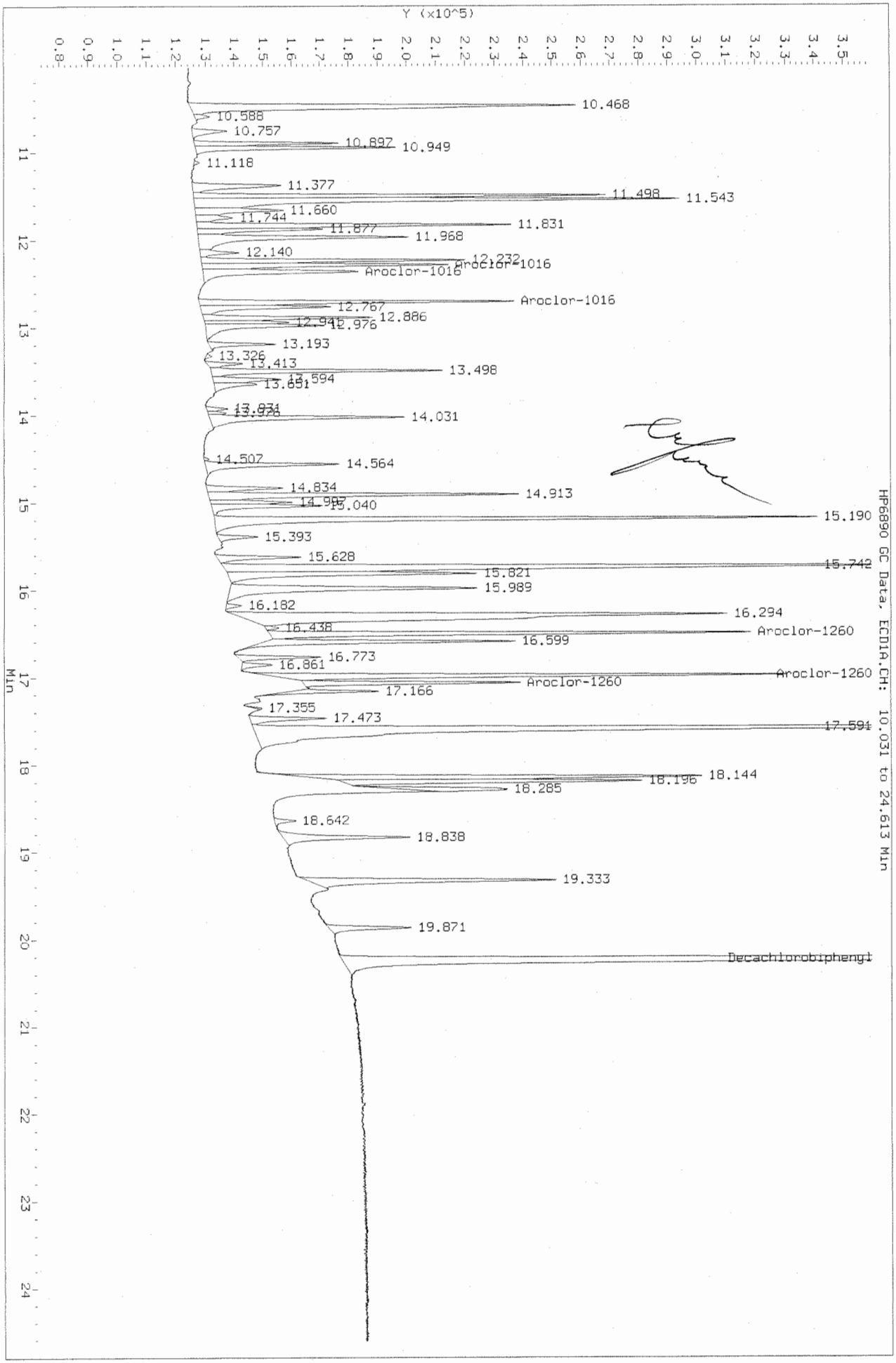
Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121020.D
Date : 21-NOV-2006 15:48
Client ID: OSTD2 1660
Sample Info: OSTD2 1660

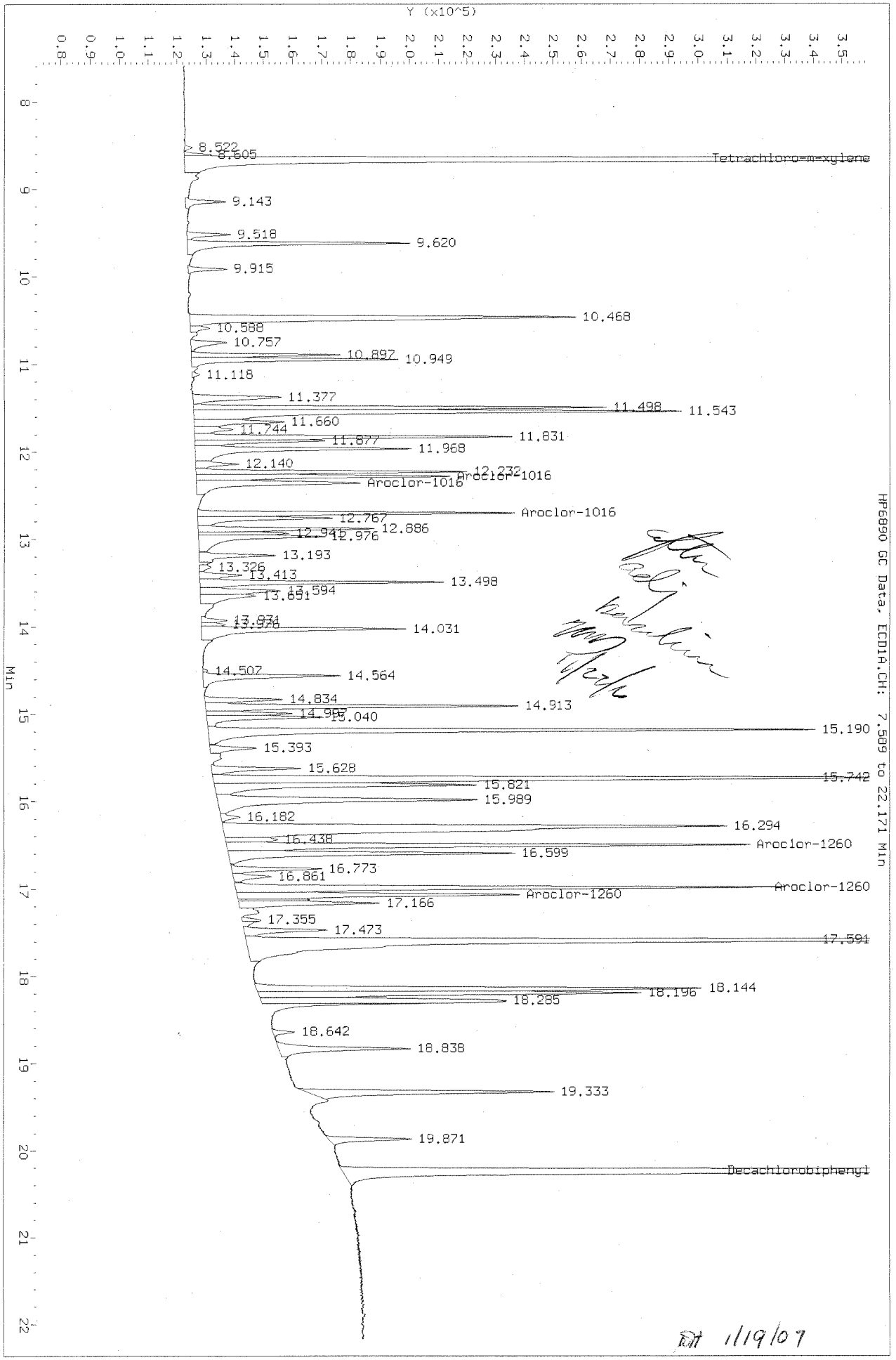
Instrument: gca.i

Operator: SW-846 8082
Column diameter: 0.32

Column phase: RTX-CLP




Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121020.D
Injection Date: 21-NOV-2006 15:48
Instrument: gca.i
Client Sample ID: OSTD2 1660
HP6890 GC Data, ECD1A.CH: 10.031 to 24.613 Min
Y (x10^5)
Min
10.468
10.588
10.757
10.897
10.949
11.118
11.377
11.498
11.543
11.660
11.744
11.831
11.877
11.968
12.140
12.232
Aroclor-1016
Aroclor-1016
Aroclor-1016
12.767
12.886
12.941
12.976
13.193
13.326
13.413
13.498
13.594
13.651
13.931
13.978
14.031
14.507
14.564
14.834
14.913
14.987
15.040
15.190
15.393
15.628
15.742
15.821
15.989
16.182
16.294
16.438
Aroclor-1260
16.599
16.773
16.861
Aroclor-1260
Aroclor-1260
17.166
17.355
17.473
17.591
18.144
18.196
18.285
18.642
18.838
19.333
19.871
Decachlorobiphenyl


Y (x10^5)
Min
8.522
8.605
Tetrachloro-m-xylene
9.143
9.518
9.620
9.915
10.468
10.588
10.757
10.897
10.949
11.118
11.377
11.498
11.543
11.660
11.744
11.831
11.877
11.968
12.140
12.272
Aroclor-1016
Aroclor-1016
Aroclor-1016
12.767
12.886
12.945
12.976
13.193
13.326
13.413
13.498
13.594
13.651
14.031
14.507
14.564
14.834
14.913
15.040
15.190
15.393
15.628
15.742
15.821
15.989
16.182
16.294
16.438
Aroclor-1260
16.599
16.773
16.861
Aroclor-1260
Aroclor-1260
17.166
17.355
17.473
17.591
18.144
18.196
18.285
18.642
18.838
19.333
19.871
Decachlorobiphenyl
HP6890 GC Data, ECD1A.CH: 7.589 to 22.171 Min
Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121020.D
Injection Date: 21-NOV-2006 15:48
Instrument: gca.i
Client Sample ID: OSTD2 1660
1/19/07

Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121020.D
Lab Smp Id: OSTD2 1660 Client Smp ID: OSTD2 1660
Inj Date : 21-NOV-2006 15:48
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD2 1660
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 15:19 Cal File: A1121019.D
Als bottle: 19 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660CAL2.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	
$ 3 Decachlorobiphenyl					CAS #: 2051-24-3			
20.238	20.238	0.000	1744108	0.02000	0.01838			
$ 2 Tetrachloro-m-xylene					CAS #:			
8.660	8.660	0.000	2095647	0.02000	0.01797			(M)
4 Aroclor-1016					CAS #: 12674-11-2			
12.285	12.285	0.000	206269	0.10000	0.09688	80.00- 120.00	100.00	(M)
12.362	12.362	0.000	192555	0.10000	0.1012	73.35- 113.35	93.35	
12.706	12.706	0.000	243318	0.10000	0.09332	97.96- 137.96	117.96	
Average of Peak Amounts =					0.09713			
10 Aroclor-1260					CAS #: 11096-82-5			
16.505	16.505	0.000	469179	0.10000	0.09556	80.00- 120.00	100.00	(M)
16.990	16.990	0.000	481981	0.10000	0.09382	82.73- 122.73	102.73	
17.071	17.071	0.000	266013	0.10000	0.09596	36.70- 76.70	56.70	
Average of Peak Amounts =					0.09511			

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121021.D

Date : 21-NOV-2006 16:17

Client ID: OSTD3 1660

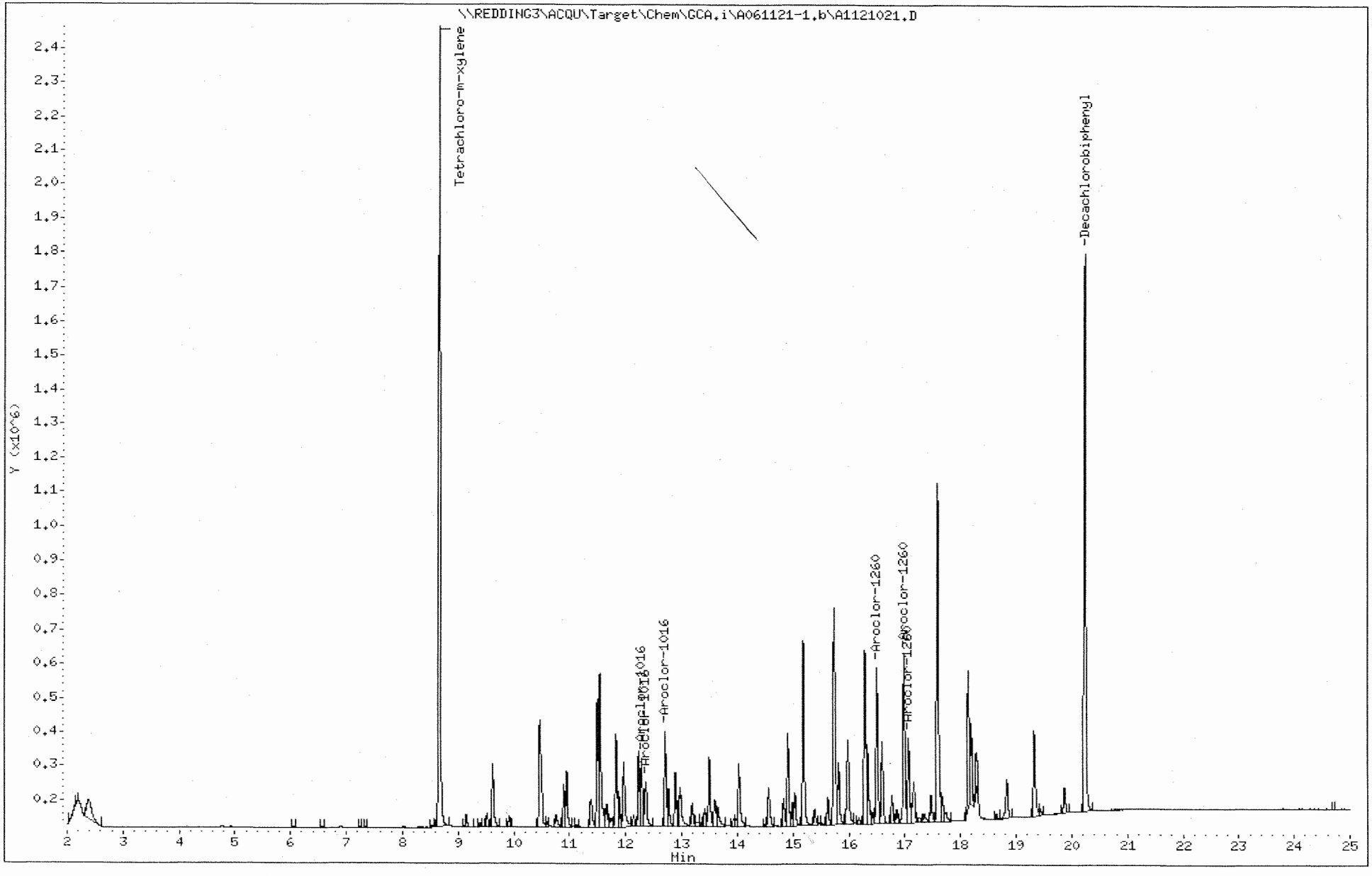
Sample Info: OSTD3 1660

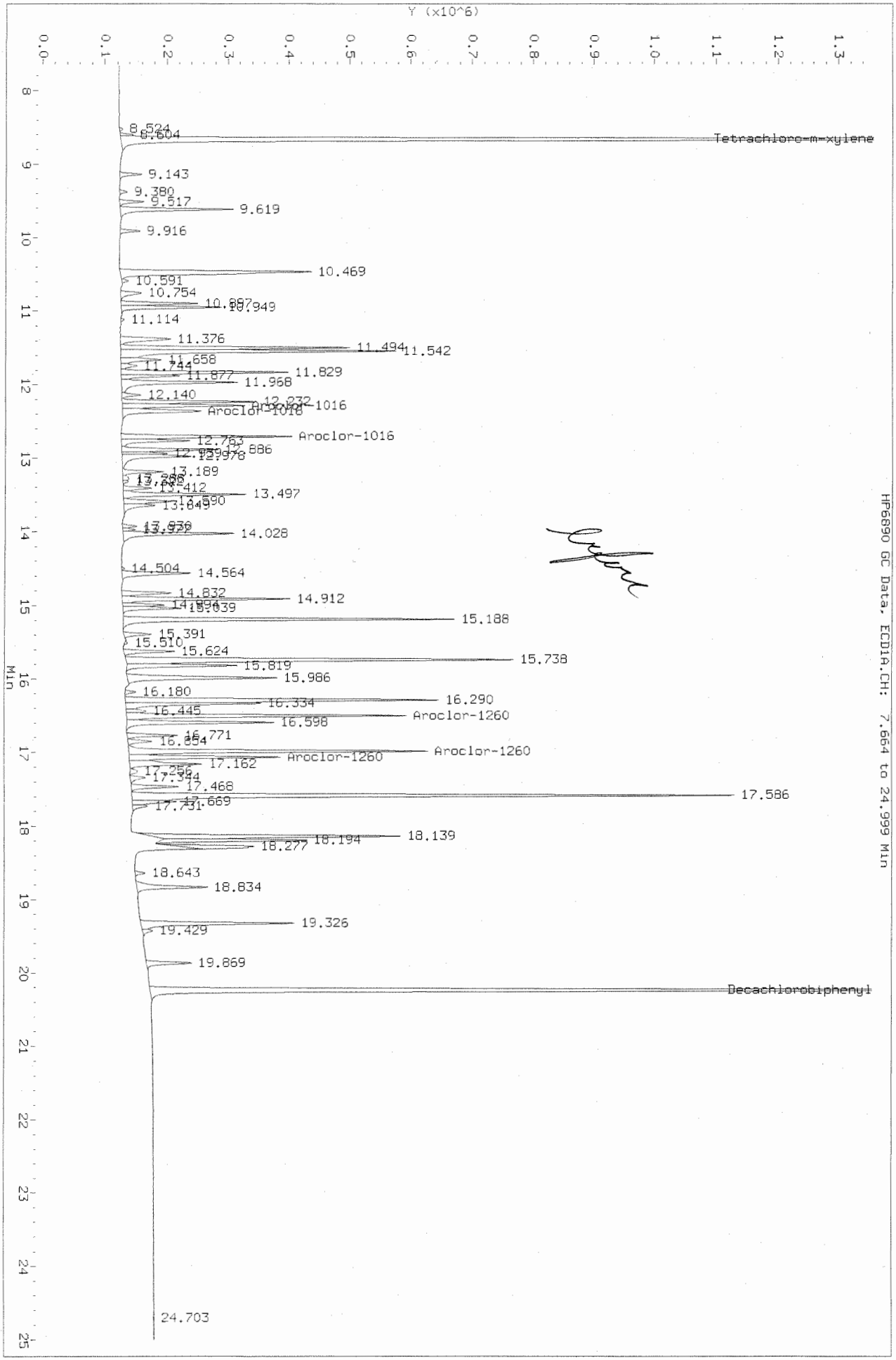
Column phase: RTX-CLP

Instrument: gca.i

Operator: SW-846 8082

Column diameter: 0.32




Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121021.D
Injection Date: 21-NOV-2006 16:17
Instrument: gca.i
Client Sample ID: OSTD3 1660
HP6890 GC Data, ECD1A.CH: 7.664 to 24.999 Min
Y (x10^6)
Min
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
8.524
8.604
9.143
9.380
9.517
9.619
9.916
10.469
10.591
10.754
10.887
10.949
11.114
11.376
11.494
11.542
11.658
11.744
11.877
11.829
11.968
12.140
12.232
1016
12.783
12.886
13.189
13.412
13.497
13.590
13.849
13.930
14.028
14.504
14.564
14.832
14.912
15.039
15.188
15.391
15.510
15.624
15.738
15.819
15.986
16.180
16.290
16.334
16.445
16.598
16.771
16.854
17.162
17.256
17.344
17.468
17.586
17.669
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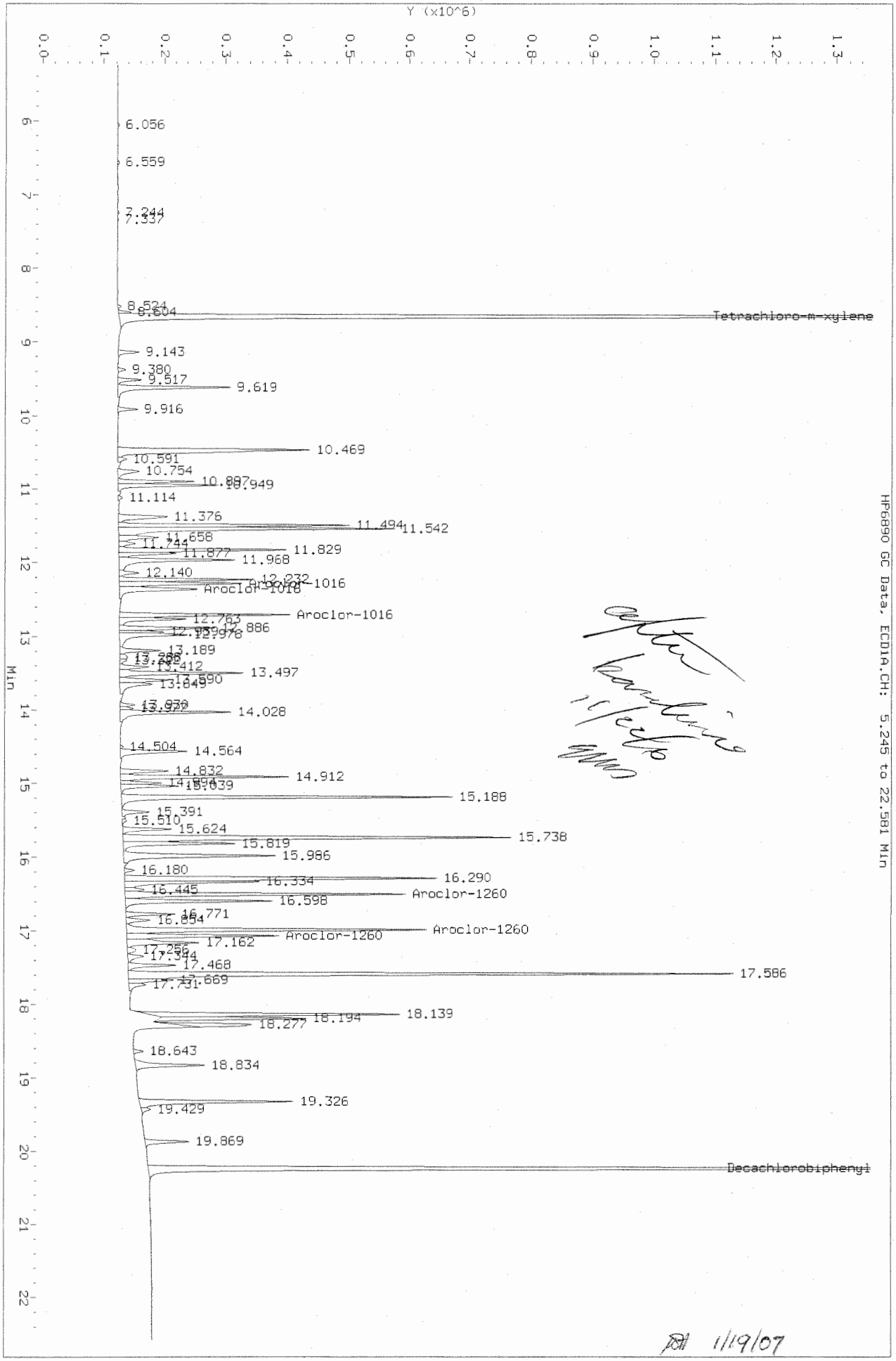
18.139
18.194
18.277
18.643
18.834
19.326
19.429
19.869
24.703


Y (x10^6)
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0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
Min
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
6.056
6.559
7.244
7.337
8.524
8.604
Tetrachloro-m-xylene
9.143
9.380
9.517
9.619
9.916
10.469
10.591
10.754
10.887
10.949
11.114
11.376
11.494
11.542
11.658
11.744
11.877
11.829
11.968
12.140
12.232
Aroclor-1016
Aroclor-1016
12.763
12.886
12.978
13.189
13.412
13.497
13.590
13.849
14.028
14.504
14.564
14.832
14.912
15.039
15.188
15.391
15.510
15.624
15.738
15.819
15.986
16.180
16.290
16.334
16.445
Aroclor-1260
16.598
16.771
16.864
Aroclor-1260
Aroclor-1260
17.162
17.256
17.344
17.468
17.586
17.669
17.731
18.139
18.194
18.277
18.643
18.834
19.326
19.429
19.869
Decachlorobiphenyl
Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121021.D
Injection Date: 21-NOV-2006 16:17
Instrument: gca.i
Client Sample ID: OSTB3 1660
HP6890 GC Data, ECD1A.CH: 5.245 to 22.581 Min

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Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121021.D
Lab Smp Id: OSTD3 1660 Client Smp ID: OSTD3 1660
Inj Date : 21-NOV-2006 16:17
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD3 1660
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 15:48 Cal File: A1121020.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660CAL2.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

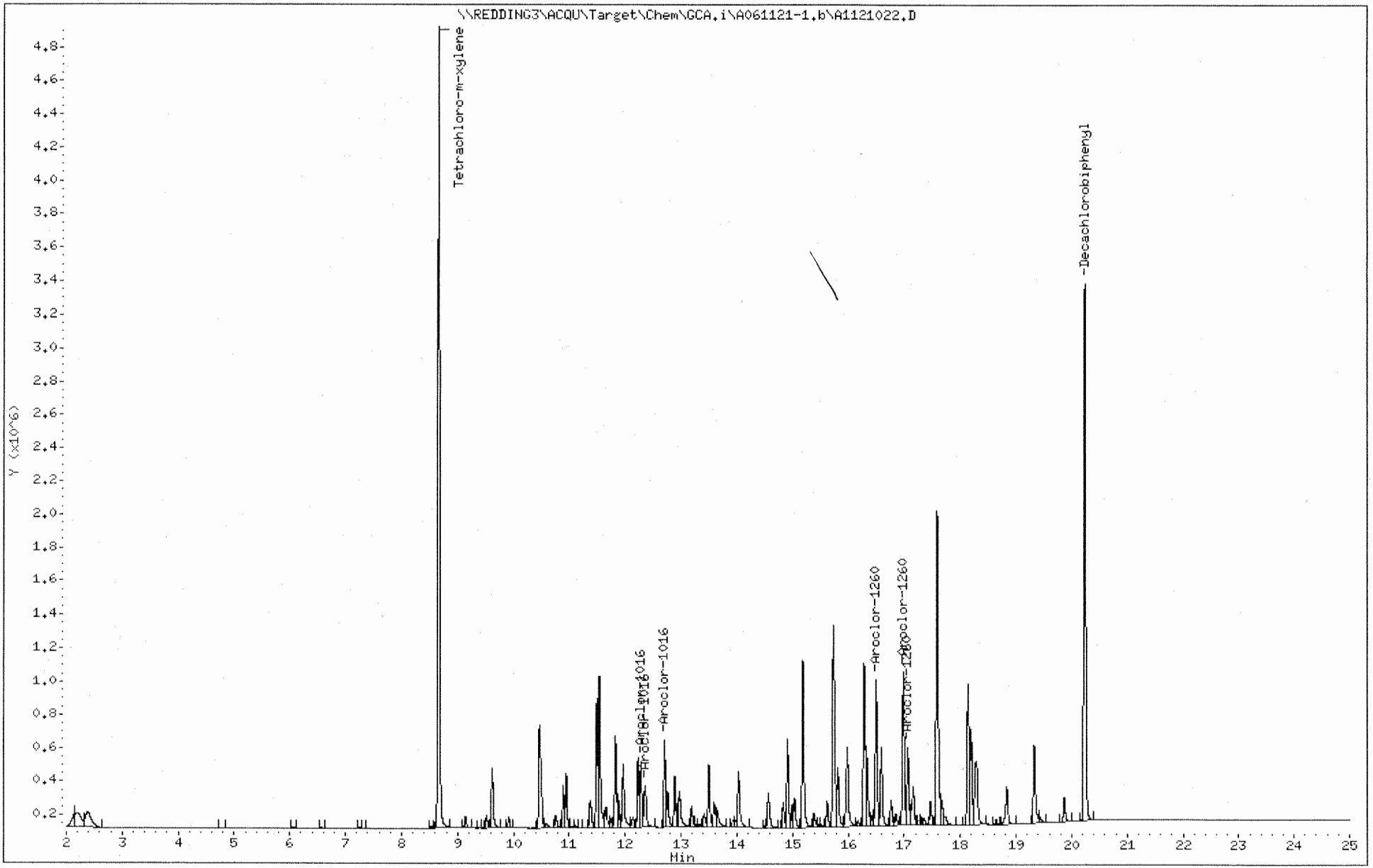
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO
$ 3 Decachlorobiphenyl					CAS #: 2051-24-3		
20.238	20.238	0.000	3798309	0.05000	0.04003		
$ 2 Tetrachloro-m-xylene					CAS #:		
8.661	8.661	0.000	4930124	0.05000	0.04227		
4 Aroclor-1016					CAS #: 12674-11-2		
12.283	12.283	0.000	457420	0.25000	0.2520	80.00- 120.00	100.00(M)
12.358	12.358	0.000	404116	0.25000	0.2536	68.35- 108.35	88.35
12.706	12.706	0.000	595811	0.25000	0.2528	110.25- 150.25	130.25
		Average of Peak Amounts =			0.25280		
10 Aroclor-1260					CAS #: 11096-82-5		
16.504	16.504	0.000	1031276	0.25000	0.2433	80.00- 120.00	100.00(M)
16.987	16.987	0.000	1137252	0.25000	0.2470	90.28- 130.28	110.28
17.067	17.067	0.000	573989	0.25000	0.2442	35.66- 75.66	55.66
		Average of Peak Amounts =			0.24483		

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121022.D
Date : 21-NOV-2006 16:46
Client ID: OSTD4 1660
Sample Info: OSTD4 1660

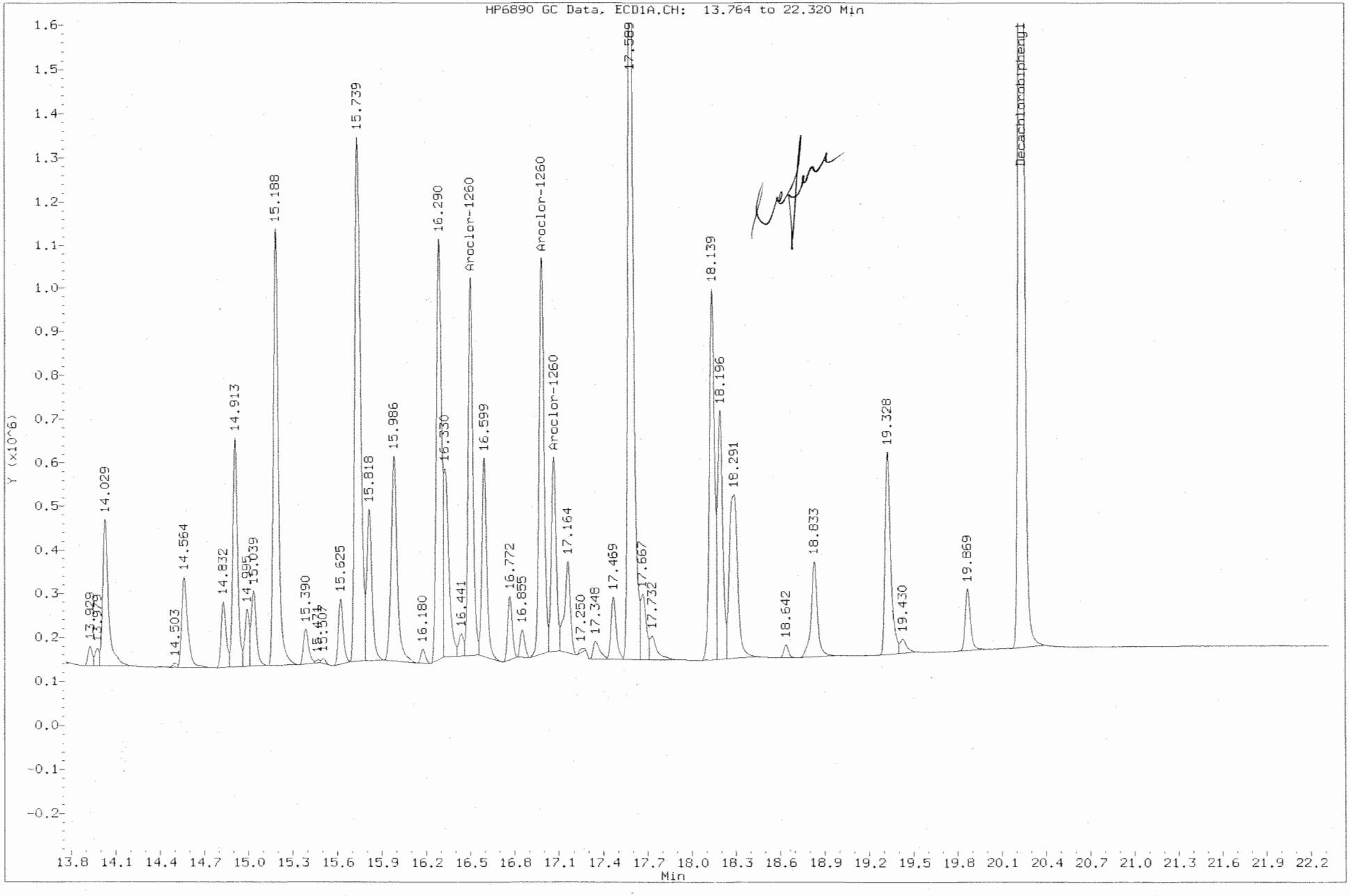
Instrument: gca.i

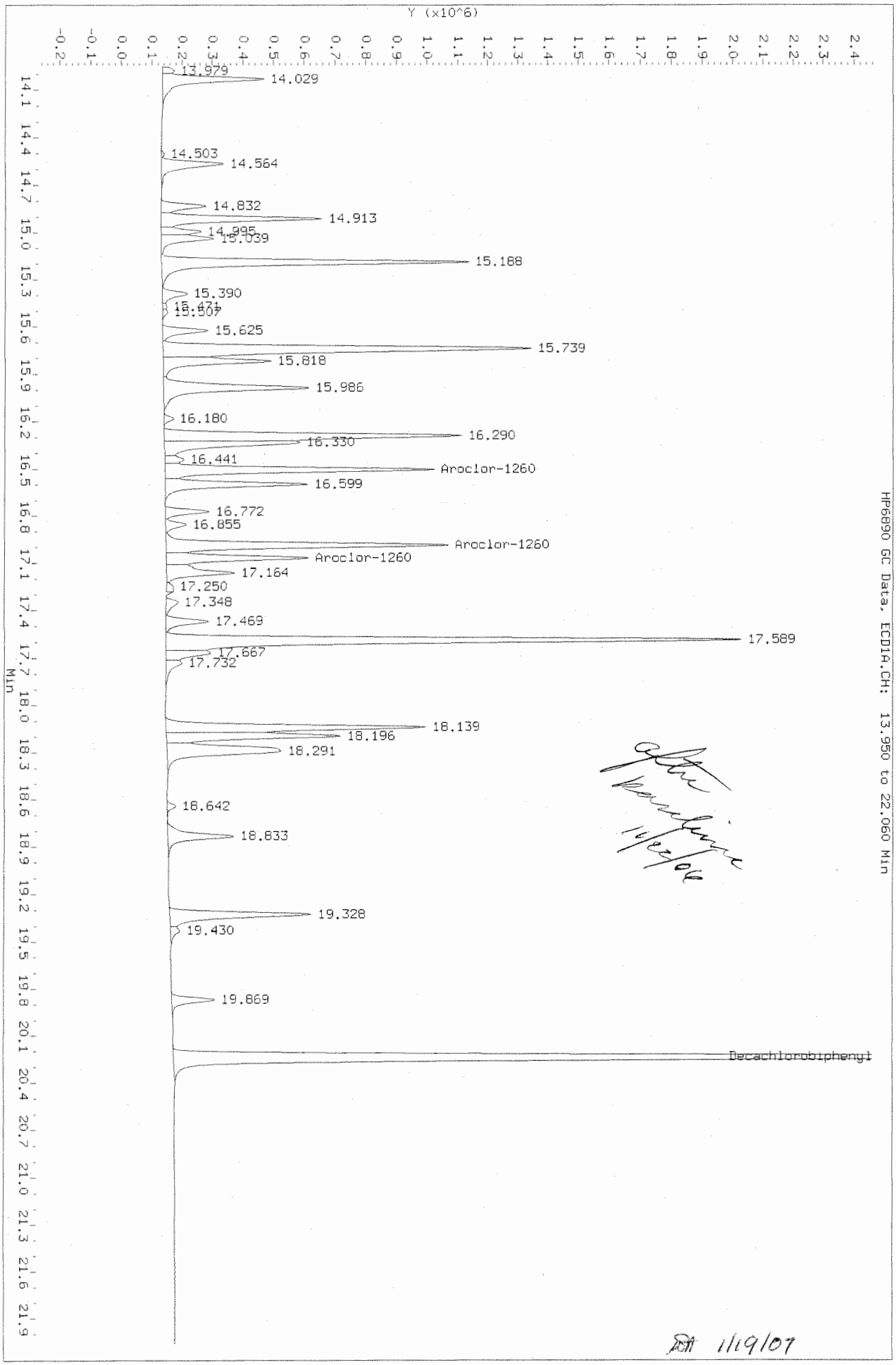
Operator: SW-846 8082
Column diameter: 0.32

Column phase: RTX-CLP



Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121022.D
Injection Date: 21-NOV-2006 16:46
Instrument: gca.i
Client Sample ID: OSTD4 1660




Y (x10^6)
13.979
14.029
14.503
14.564
14.832
14.913
14.995
15.039
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15.390
15.471
15.507
15.625
15.739
15.818
15.986
16.180
16.290
16.330
16.441
Aroclor-1260
16.599
16.772
16.855
Aroclor-1260
Aroclor-1260
17.164
17.250
17.348
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17.589
17.667
17.732
18.139
18.196
18.291
18.642
18.833
19.328
19.430
19.869
Decachlorobiphenyl
Min
HP6890 GC Data, ECD1A.CH; 13.950 to 22.060 Min
Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121022.D
Injection Date: 21-NOV-2006 16:46
Instrument: gca.i
Client Sample ID: OSTD4 1660

11/9/06

11/9/07

Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121022.D
Lab Smp Id: OSTD4 1660 Client Smp ID: OSTD4 1660
Inj Date : 21-NOV-2006 16:46
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD4 1660
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:17 Cal File: A1121021.D
Als bottle: 21 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660CAL2.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

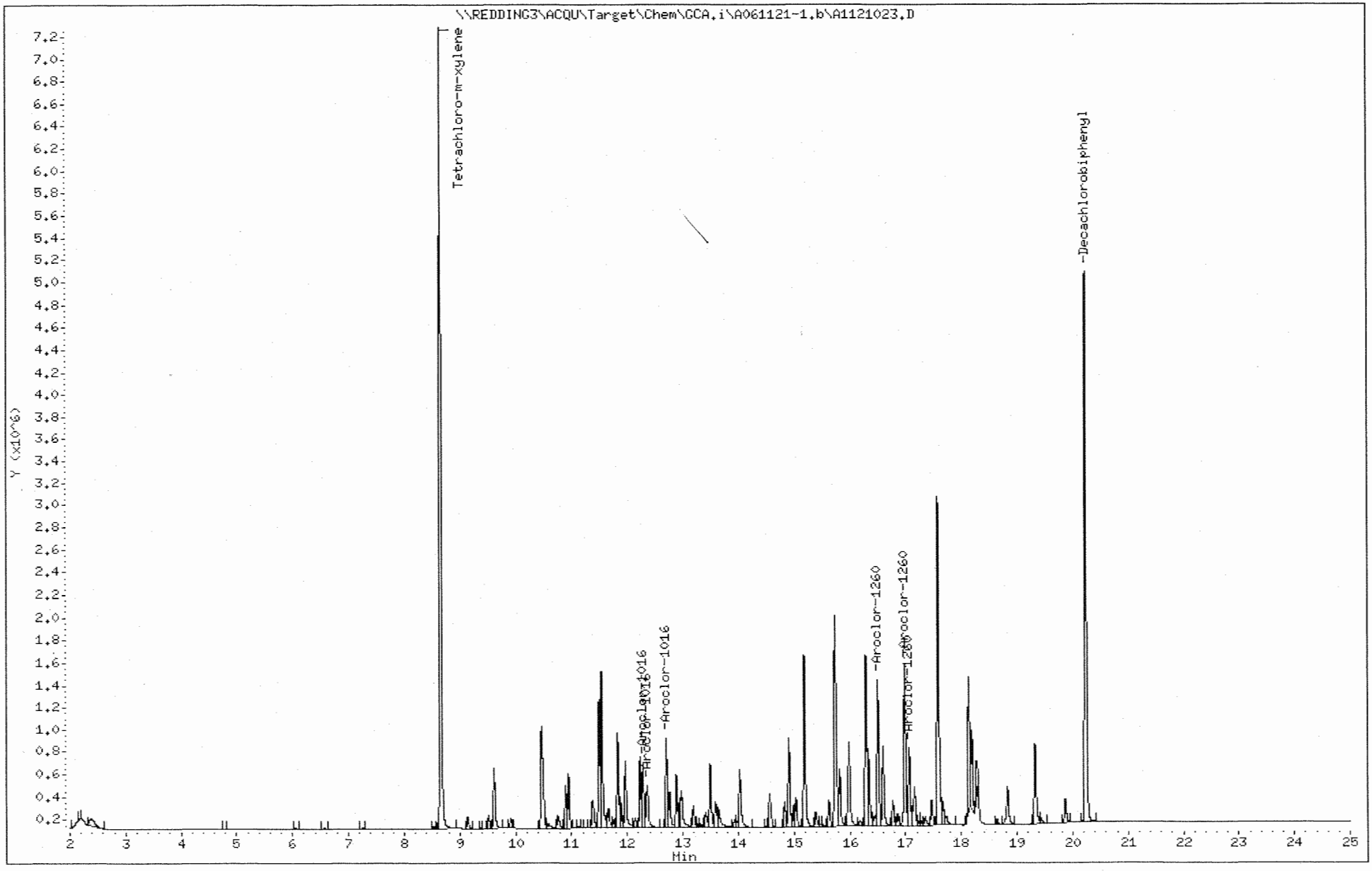
				AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO
$ 3 Decachlorobiphenyl					CAS #: 2051-24-3		
20.237	20.237	0.000	7727978	0.10000	0.08145		
$ 2 Tetrachloro-m-xylene					CAS #:		
8.660	8.660	0.000	10263342	0.10000	0.08800		
4 Aroclor-1016					CAS #: 12674-11-2		
12.282	12.282	0.000	858974	0.50000	0.5000	80.00- 120.00	100.00
12.357	12.357	0.000	755045	0.50000	0.5063	67.90- 107.90	87.90
12.706	12.706	0.000	1120669	0.50000	0.4902	110.47- 150.47	130.47
Average of Peak Amounts =					0.49883		
10 Aroclor-1260					CAS #: 11096-82-5		
16.504	16.504	0.000	2024590	0.50000	0.5044	80.00- 120.00	100.00(M)
16.986	16.986	0.000	2197189	0.50000	0.4947	88.53- 128.53	108.53
17.068	17.068	0.000	1099533	0.50000	0.4971	34.31- 74.31	54.31
Average of Peak Amounts =					0.49873		

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121023.D
Date : 21-NOV-2006 17:15
Client ID: OSTD5 1660
Sample Info: OSTD5 1600

Instrument: gca.i

Operator: SW-846 8082
Column diameter: 0.32

Column phase: RTX-CLP



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121023.D
Lab Smp Id: OSTD5 1600 Client Smp ID: OSTD5 1660
Inj Date : 21-NOV-2006 17:15
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD5 1600
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660CAL2.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

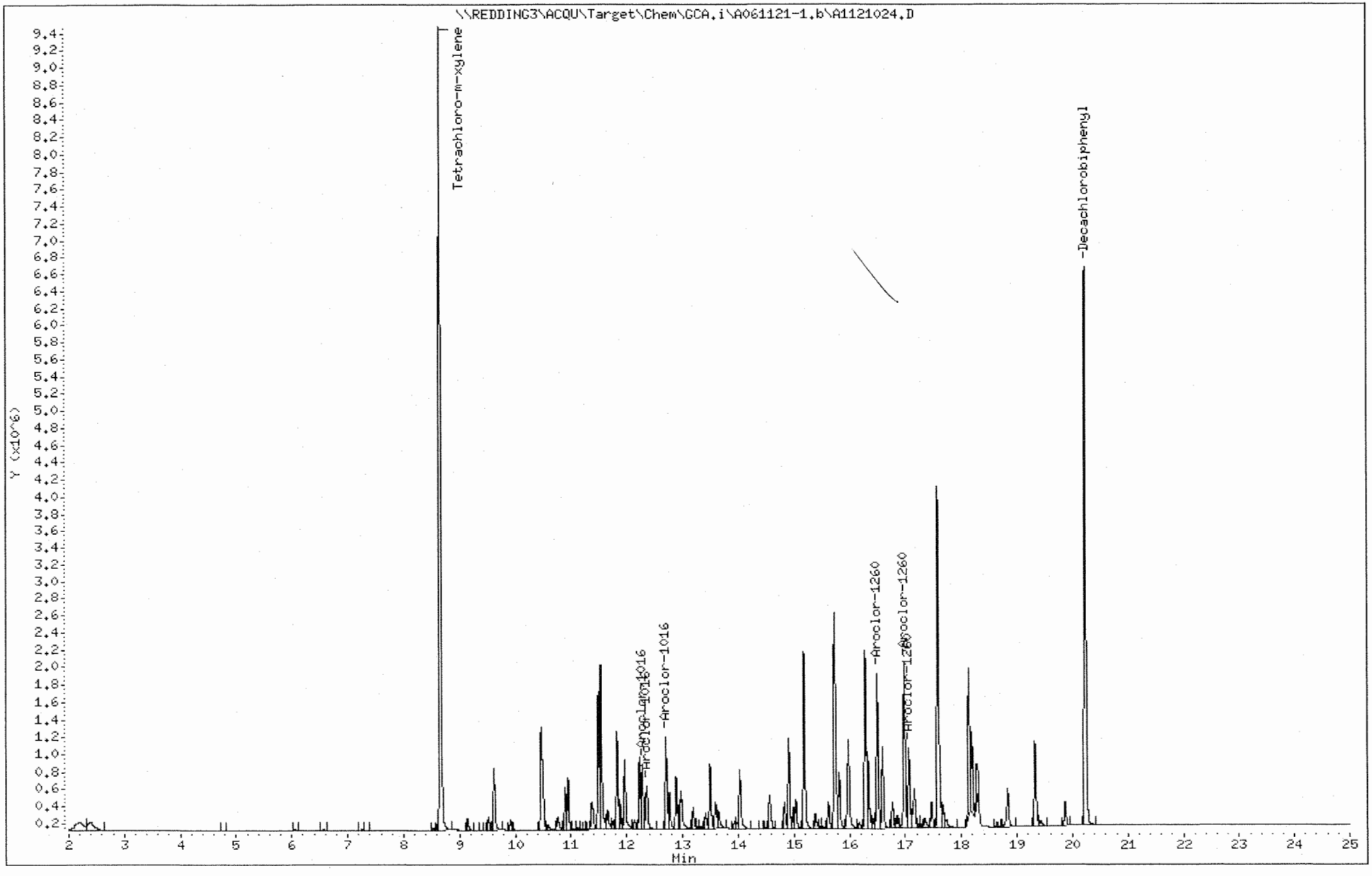
				AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	TARGET RANGE	RATIO
$ 3 Decachlorobiphenyl					CAS #: 2051-24-3		
20.237	20.237	0.000	11378117	0.15000	0.1199		
$ 2 Tetrachloro-m-xylene					CAS #:		
8.660	8.660	0.000	15249087	0.15000	0.1308		
4 Aroclor-1016					CAS #: 12674-11-2		
12.282	12.282	0.000	1270424	0.75000	0.7541	80.00- 120.00	100.00
12.359	12.359	0.000	1115897	0.75000	0.7662	67.84- 107.84	87.84
12.706	12.706	0.000	1690580	0.75000	0.7480	113.07- 153.07	133.07
		Average of Peak Amounts =			0.75610		
10 Aroclor-1260					CAS #: 11096-82-5		
16.504	16.504	0.000	2978799	0.75000	0.7552	80.00- 120.00	100.00
16.987	16.987	0.000	3302089	0.75000	0.7529	90.85- 130.85	110.85
17.068	17.068	0.000	1630133	0.75000	0.7525	34.72- 74.72	54.72
		Average of Peak Amounts =			0.75353		

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121024.D
Date : 21-NOV-2006 17:45
Client ID: OSTD6 1660
Sample Info: OSTD6 1660

Instrument: gca.i

Operator: SW-846 8082
Column diameter: 0.32

Column phase: RTX-CLP



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Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121024.D
Lab Smp Id: OSTD6 1660 Client Smp ID: OSTD6 1660
Inj Date : 21-NOV-2006 17:45
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD6 1660
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:04 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 17:15 Cal File: A1121023.D
Als bottle: 23 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660CAL2.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	TARGET RANGE	RATIO
$ 3 Decachlorobiphenyl					CAS #: 2051-24-3		
20.237	20.237	0.000	14941588	0.20000	0.1575		
$ 2 Tetrachloro-m-xylene					CAS #:		
8.660	8.660	0.000	20013890	0.20000	0.1716		
4 Aroclor-1016					CAS #: 12674-11-2		
12.282	12.282	0.000	1663226	1.00000	0.9967	80.00- 120.00	100.00
12.359	12.359	0.000	1417308	1.00000	0.9832	65.21- 105.21	85.21
12.706	12.706	0.000	2260545	1.00000	1.006	115.91- 155.91	135.91
Average of Peak Amounts =					0.99530		
10 Aroclor-1260					CAS #: 11096-82-5		
16.504	16.504	0.000	3893371	1.00000	0.9956	80.00- 120.00	100.00
16.987	16.987	0.000	4365070	1.00000	1.001	92.12- 132.12	112.12
17.066	17.066	0.000	2146594	1.00000	1.001	35.13- 75.13	55.13
Average of Peak Amounts =					0.99920		

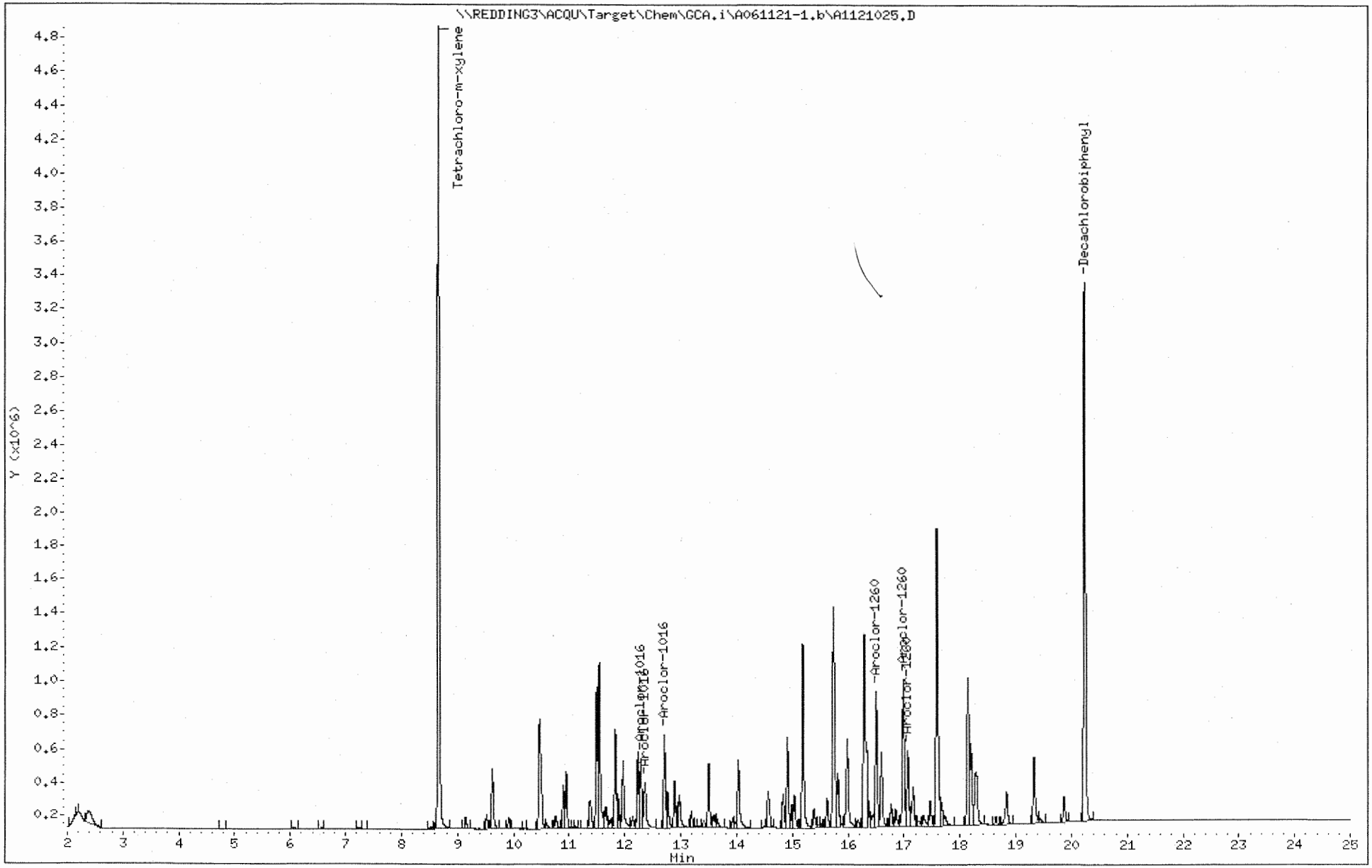
11/22/06

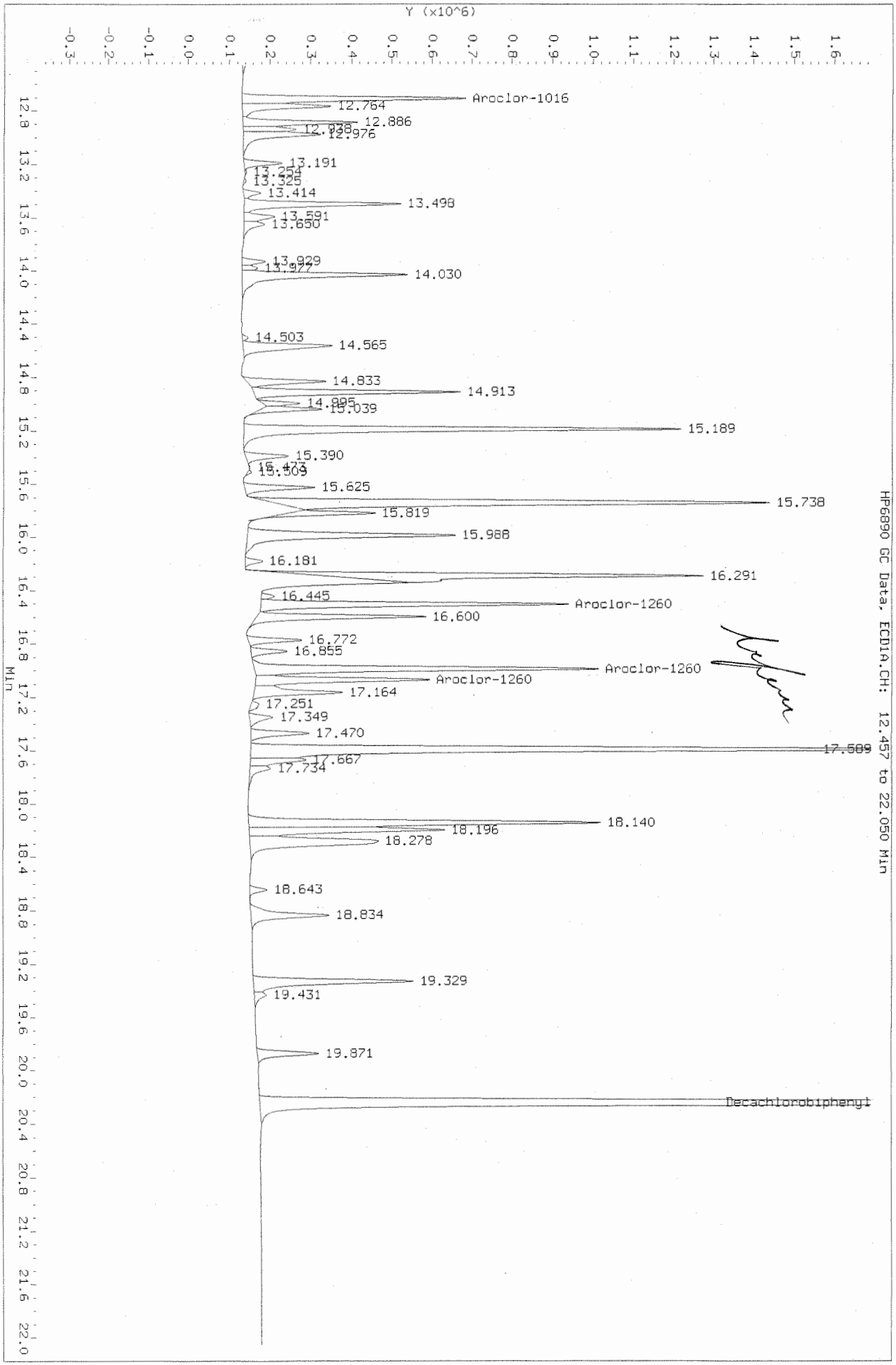
Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121025.D
Date : 21-NOV-2006 18:14
Client ID: QCALTSTD
Sample Info: OSTD4 1660

Instrument: gca.i

Operator: SW-846 8082
Column diameter: 0.32

Column phase: RTX-CLP




Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121025.D
Injection Date: 21-NOV-2006 18:14
Instrument: gca.i
Client Sample ID: OSTD4 1660
Y (x10^6)
Min
HP6890 GC Data, ECD1A.CH: 12.457 to 22.050 Min
Aroclor-1016
12.764
12.886
12.976
13.191
13.254
13.325
13.414
13.498
13.591
13.650
13.929
13.977
14.030
14.503
14.565
14.833
14.913
14.995
15.039
15.189
15.390
15.625
15.738
15.819
15.988
16.181
16.291
16.445
Aroclor-1260
16.600
16.772
16.855
Aroclor-1260
Aroclor-1260
17.164
17.251
17.349
17.470
17.589
17.667
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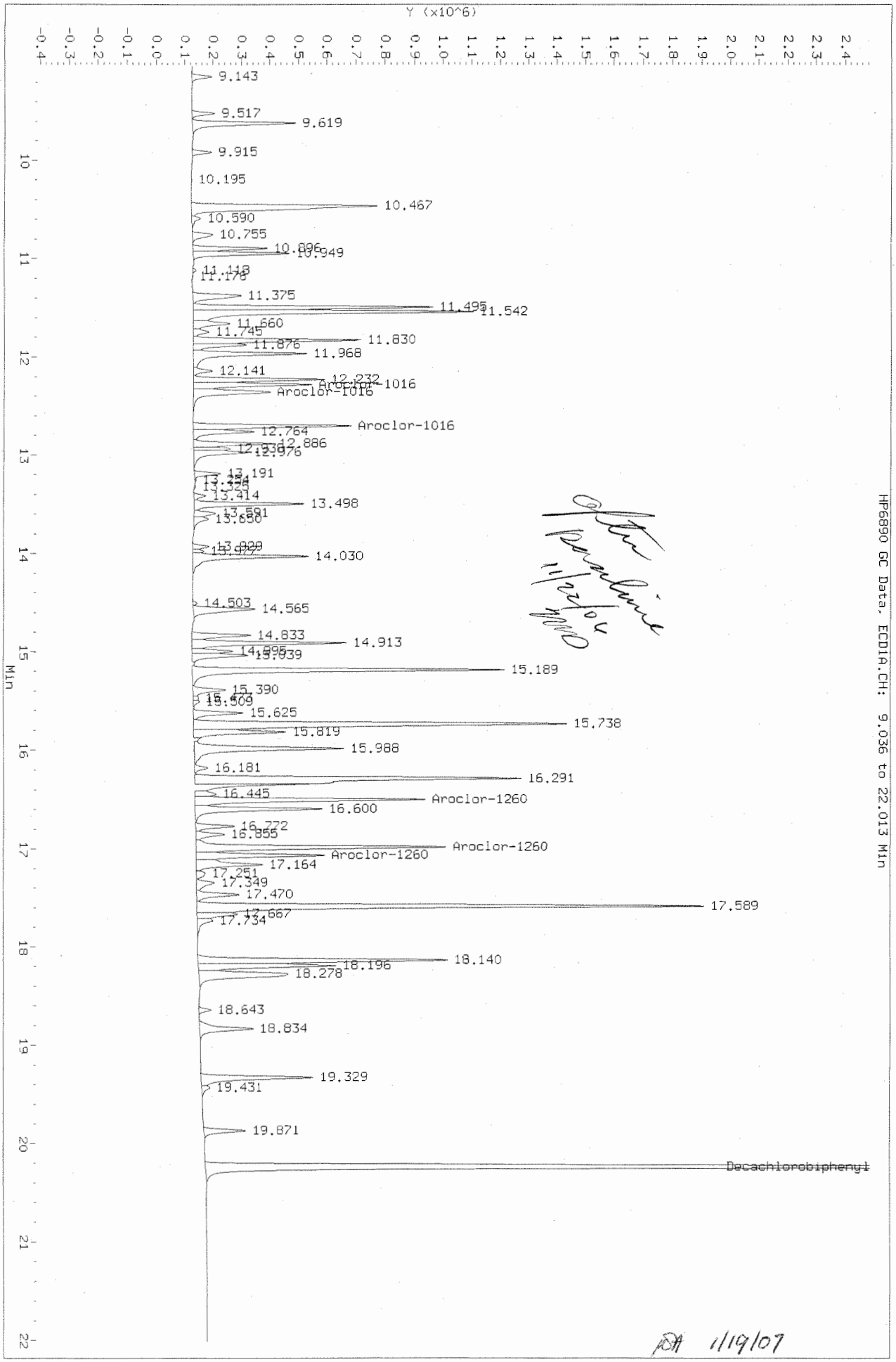
18.140
18.196
18.278
18.643
18.834
19.329
19.431
19.871
Decachlorobiphenyl


Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121025.D
Injection Date: 21-NOV-2006 18:14
Instrument: gca.i
Client Sample ID: OSTD4 1660
HP6890 GC Data, ECDIA.CH: 9.036 to 22.013 Min
Y (x10^6)
Min
9.143
9.517
9.619
9.915
10.195
10.467
10.590
10.755
10.896
10.949
11.118
11.178
11.375
11.495
11.542
11.660
11.745
11.830
11.876
11.968
12.141
12.232
Aroclor-1016
Aroclor-1016
Aroclor-1016
12.764
12.886
12.930
12.976
13.191
13.256
13.329
13.414
13.498
13.581
13.680
13.822
13.929
14.030
14.503
14.565
14.833
14.913
14.995
15.039
15.189
15.390
15.509
15.625
15.738
15.819
15.988
16.181
16.291
16.445
Aroclor-1260
16.600
16.772
16.855
Aroclor-1260
Aroclor-1260
17.164
17.251
17.349
17.470
17.589
17.667
17.734
18.140
18.196
18.278
18.643
18.834
19.329
19.431
19.871
Decachlorobiphenyl
11/27/06
1/19/07

Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b\A1121025.D
Lab Smp Id: QCALTSTD Client Smp ID: QCALTSTD
Inj Date : 21-NOV-2006 18:14
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD4 1660
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A061121-1.b_A8082_1WS_1121.m
Meth Date : 22-Nov-2006 09:31 gca.i Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660CAL2.sub
Target Version: 4.12 Sample Matrix: SOIL

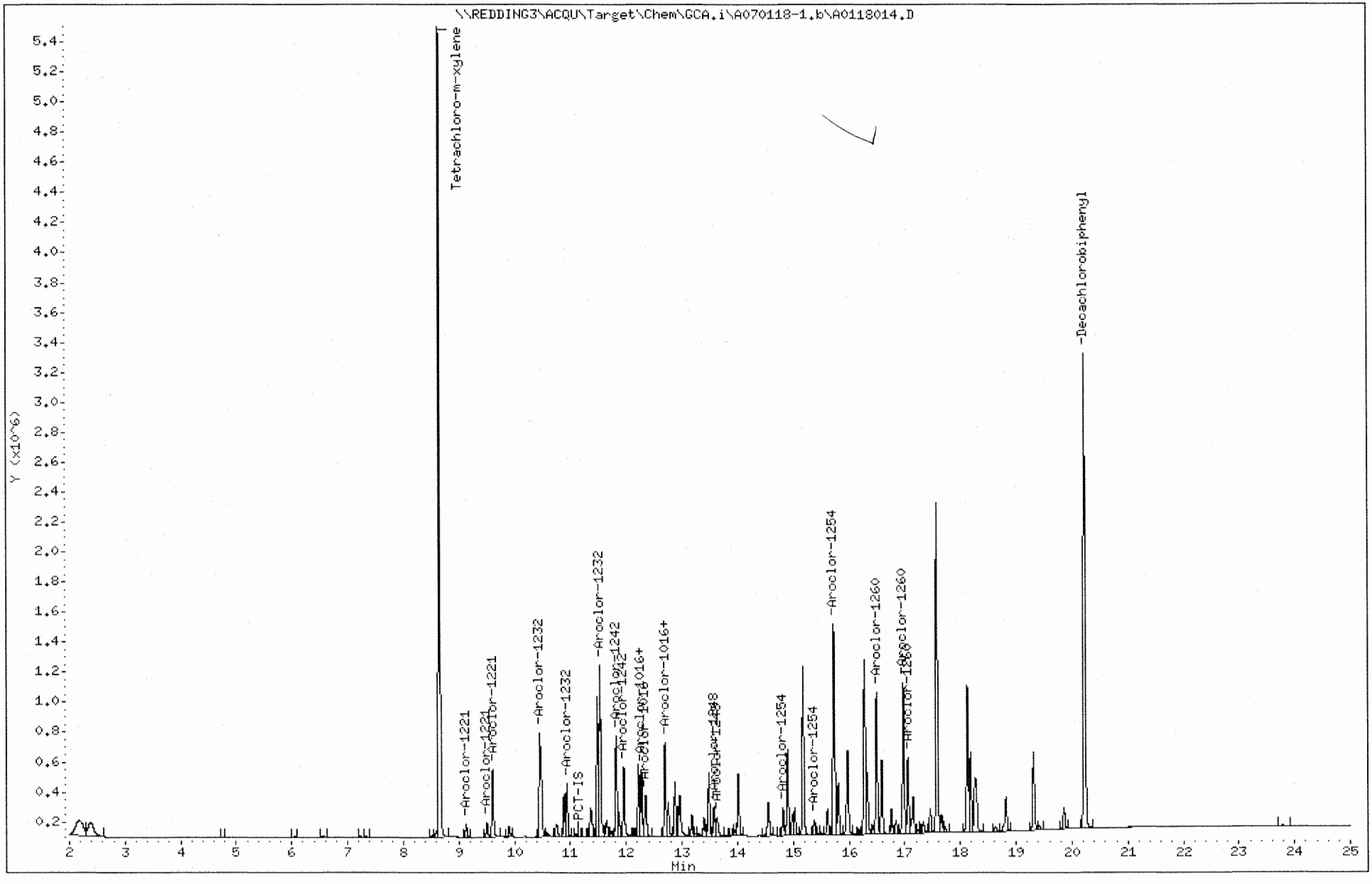
Concentration Formula: Amt * DF * Uf*(Vt)*(1/Ws)/((100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	factor for ppm to ppb
Vt	10.000	Volume of final extract (mL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				AMOUNTS				
					CAL-AMT	ON-COL		
	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO
$	3 Decachlorobiphenyl					CAS #: 2051-24-3		
	20.238	20.238	0.000	7672655	0.10000	0.1002		
$	2 Tetrachloro-m-xylene					CAS #:		
	8.662	8.662	0.000	10183086	0.10000	0.1002		
	4 Aroclor-1016					CAS #: 12674-11-2		
	12.283	12.283	0.000	922316	0.50000	0.5391	80.00- 120.00	100.00
	12.358	12.358	0.000	818206	0.50000	0.5518	68.71- 108.71	88.71
	12.707	12.707	0.000	1193473	0.50000	0.5231	109.40- 149.40	129.40
		Average of Peak Amounts =				0.53800		
	10 Aroclor-1260					CAS #: 11096-82-5		
	16.504	16.504	0.000	1834931	0.50000	0.4546	80.00- 120.00	100.00(M)
	16.987	16.987	0.000	2114018	0.50000	0.4753	95.21- 135.21	115.21
	17.068	17.068	0.000	1086032	0.50000	0.4906	39.19- 79.19	59.19
		Average of Peak Amounts =				0.47350		

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118014.D
Date : 18-JAN-2007 16:33
Client ID: OSTD4 1660
Sample Info: OSTD4 1660
Volume Injected (uL): 1.0
Column phase: RTX-CLP

Instrument: gca.i
Operator: SW-846 8082
Column diameter: 0.32



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118014.D
Lab Smp Id: OSTD4 1660 Client Smp ID: OSTD4 1660
Inj Date : 18-JAN-2007 16:33
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD4 1660
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b_A8082_1WS_1121.m
Meth Date : 19-Jan-2007 14:33 mdyer Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660CAL2.sub
Target Version: 4.12 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/(Vo*Vi) * CpndVariable

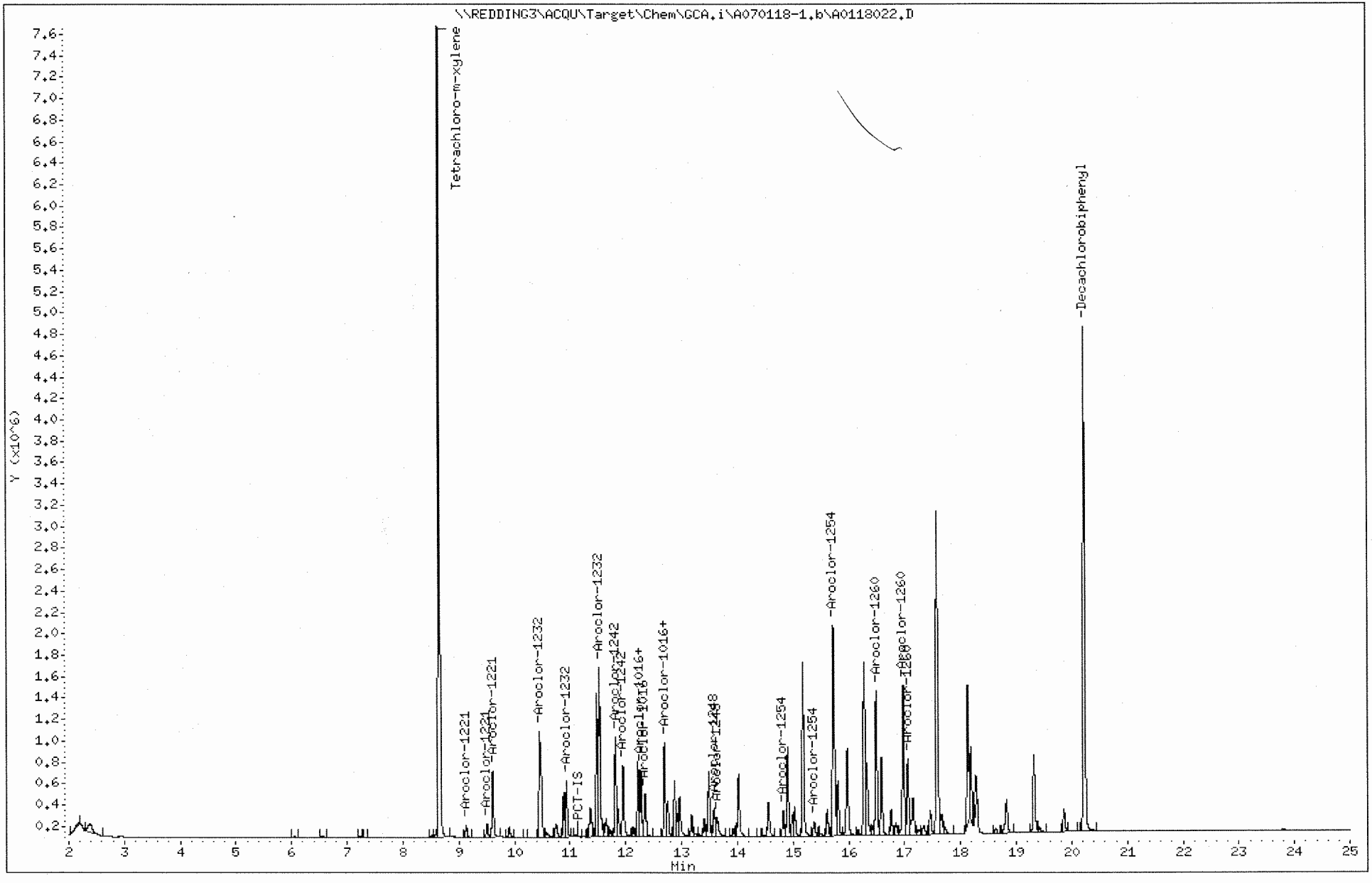
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vo	1.000	Volume of sample extracted (L)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO
$ 3 Decachlorobiphenyl						CAS #: 2051-24-3		
	20.225	20.225	0.000	7123362	0.10000	0.09265		
$ 2 Tetrachloro-m-xylene						CAS #:		
	8.648	8.649	-0.001	11038401	0.10000	0.1088		
4 Aroclor-1016						CAS #: 12674-11-2		
	12.271	12.272	-0.001	902262	0.50000	0.5267	80.00- 120.00	100.00(a)
	12.345	12.347	-0.002	722578	0.50000	0.4829	61.10- 101.10	80.09
	12.693	12.695	-0.002	1259958	0.50000	0.5532	117.70- 157.70	139.64
		Average of Peak Amounts =				0.52093		
10 Aroclor-1260						CAS #: 11096-82-5		
	16.492	16.494	-0.002	1978875	0.50000	0.4924	80.00- 120.00	100.00(a)
	16.974	16.977	-0.003	2197686	0.50000	0.4948	90.24- 130.24	111.06
	17.054	17.057	-0.003	1059889	0.50000	0.4780	33.58- 73.58	53.56
		Average of Peak Amounts =				0.48840		

1/19/07

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118022.D
Date : 18-JAN-2007 20:26
Client ID: OSTD5 1660
Sample Info: OSTD5 1660
Volume Injected (uL): 1.0
Column phase: RTX-CLP

Instrument: gca.i
Operator: SW-846 8082
Column diameter: 0.32



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118022.D
Lab Smp Id: OSTD5 1660 Client Smp ID: OSTD5 1660
Inj Date : 18-JAN-2007 20:26
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : OSTD5 1660
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b_A8082_1WS_1121.m
Meth Date : 19-Jan-2007 14:33 mdyer Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660CAL2.sub
Target Version: 4.12 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vo	1.000	Volume of sample extracted (L)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

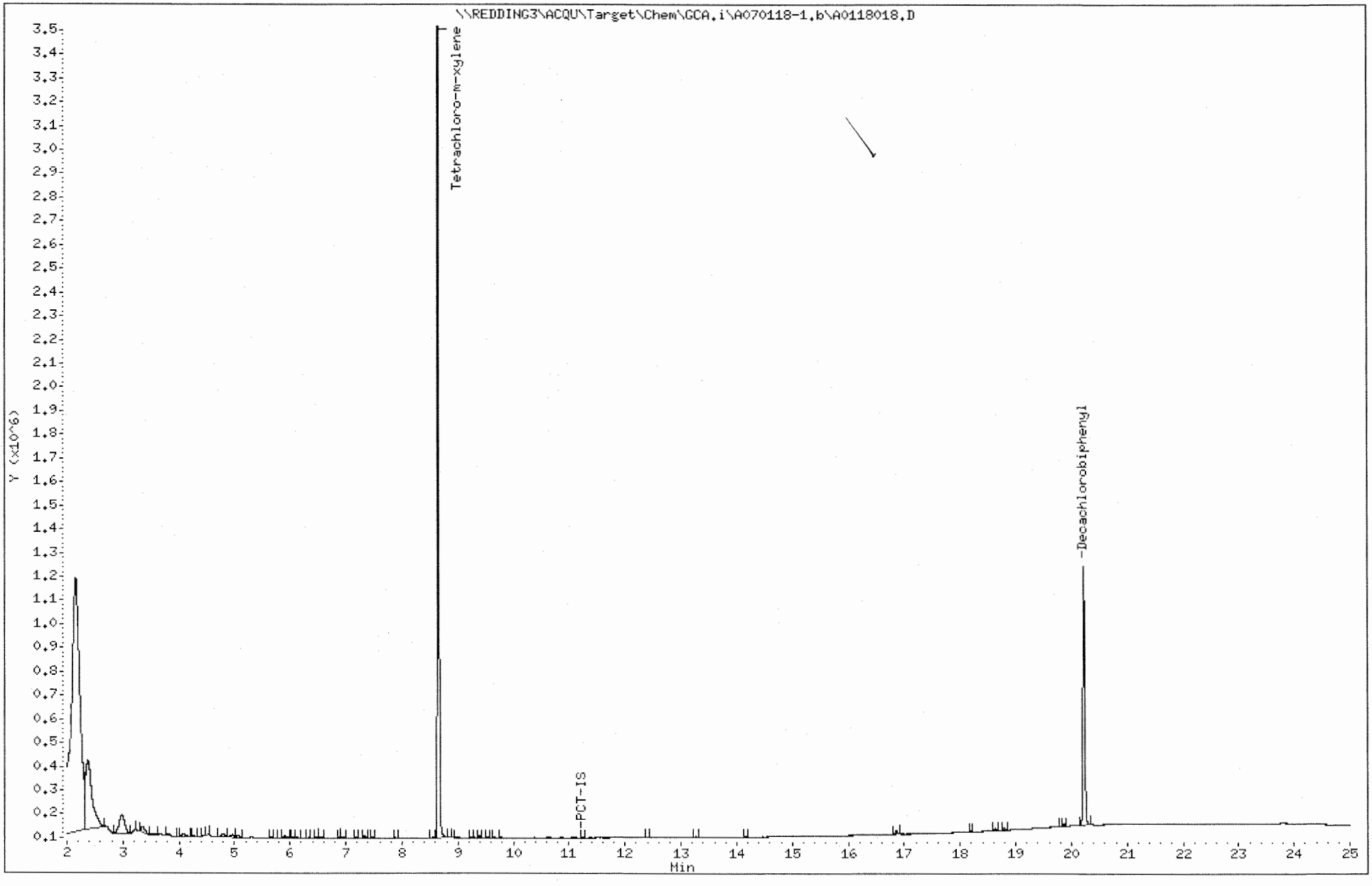
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO
$ 3 Decachlorobiphenyl					CAS #: 2051-24-3		
20.225	20.225	0.000	10857231	0.10000	0.1437		
$ 2 Tetrachloro-m-xylene					CAS #:		
8.649	8.649	0.000	15879512	0.10000	0.1576		
4 Aroclor-1016					CAS #: 12674-11-2		
12.272	12.272	0.000	1319904	0.50000	0.7846	80.00- 120.00	100.00(a)
12.347	12.347	0.000	1070454	0.50000	0.7334	61.10- 101.10	81.10
12.695	12.695	0.000	1817505	0.50000	0.8054	117.70- 157.70	137.70
Average of Peak Amounts =					0.77447		
10 Aroclor-1260					CAS #: 11096-82-5		
16.494	16.494	0.000	3024285	0.50000	0.7672	80.00- 120.00	100.00(a)
16.977	16.977	0.000	3334016	0.50000	0.7604	90.24- 130.24	110.24
17.057	17.057	0.000	1620470	0.50000	0.7478	33.58- 73.58	53.58
Average of Peak Amounts =					0.75847		

1/19/07

QC Summary
(Batch ID: PWB10115)

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118018.D
Date : 18-JAN-2007 18:30
Client ID: PWB10115
Sample Info: PWB10115
Volume Injected (uL): 1.0
Column phase: RTX-CLP

Instrument: gca.i
Operator: SW-846 8082
Column diameter: 0.32



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118018.D
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Inj Date : 18-JAN-2007 18:30
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : PWB10115
Misc Info : PWB10115;070115W;15-JAN-2007;;;;;;;;;;;;;;;;;;
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b_A8082_1WS_1121.m
Meth Date : 19-Jan-2007 14:33 mdyer Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 18 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: sw846.sub
Target Version: 4.12 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vo	1.000	Volume of sample extracted (L)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO
1 PCT-IS							CAS #:	
	11.235	11.167	0.068	3520				
$ 3 Decachlorobiphenyl							CAS #: 2051-24-3	
	20.228	20.225	0.003	2543346	0.03001	0.3001		
4 Aroclor-1016							CAS #: 12674-11-2	
Peaks not detected for Quant. or Qual. signal(s).								
5 Aroclor-1221							CAS #: 11104-28-2	
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor-1232							CAS #: 11141-16-5	
Peaks not detected for Quant. or Qual. signal(s).								

1/19/07

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO

7 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

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8 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

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9 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

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10 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0700056
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

PolyChlorinated Biphenyls (PCBs)

Sample Name:	Laboratory Control Sample		
Lab Code:	PWB10115LCS	**Units:**	ug/L (ppb)
Extraction	SW3520	**Basis:**	NA
Analysis Method:	SW8082		

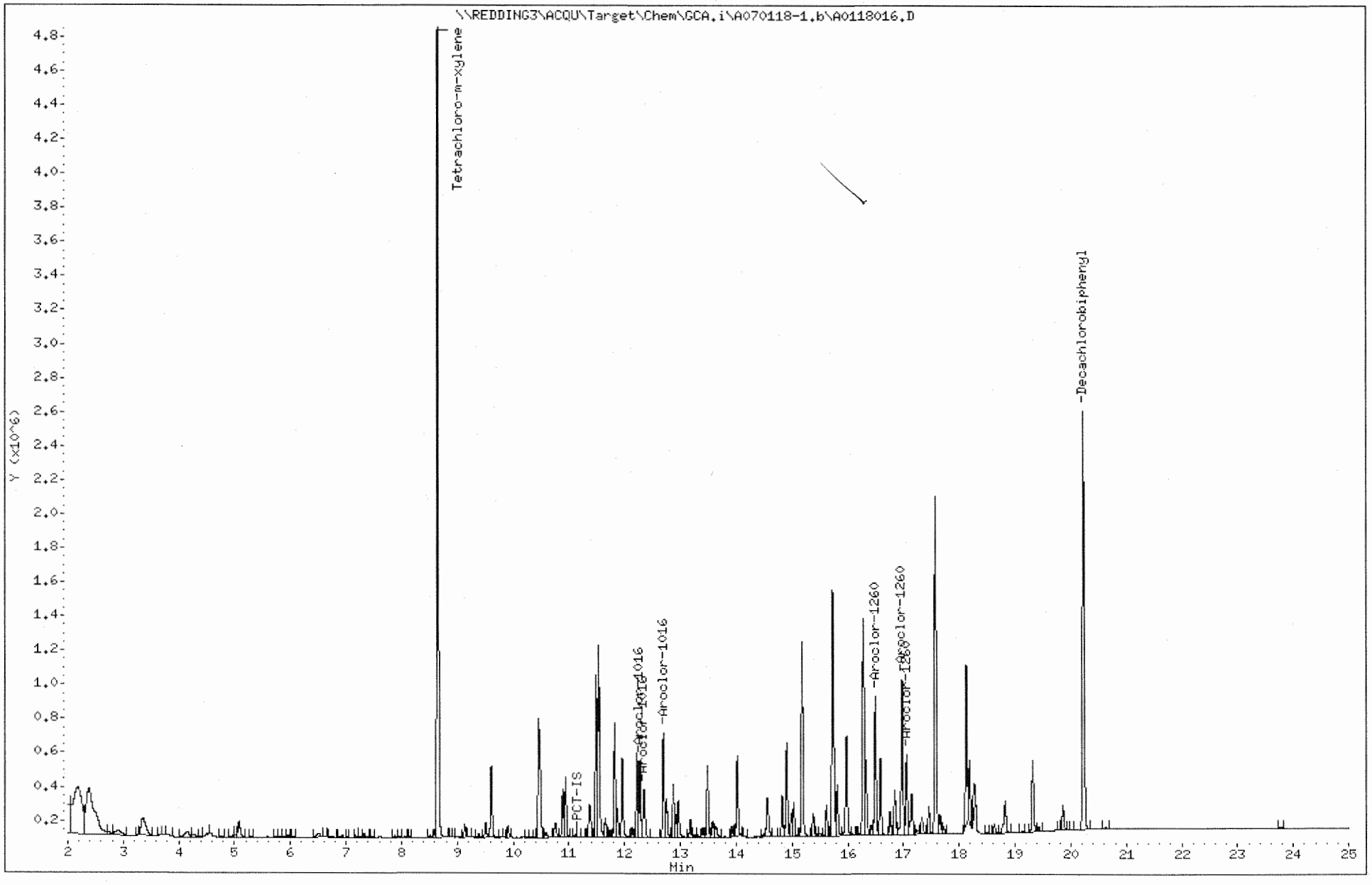
Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	**5.2**		0.12	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1260	**4.4**		0.034	1.0	1	01/15/2007	01/18/2007	PWB10115	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	70	10-110	01/18/2007	

Comments: _____

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118016.D
Date : 18-JAN-2007 17:31
Client ID: PWB10115LCS
Sample Info: PWB10115LCS
Volume Injected (uL): 1.0
Column phase: RTX-CLP

Instrument: gca.i
Operator: SW-846 8082
Column diameter: 0.32



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118016.D
Lab Smp Id: PWB10115LCS Client Smp ID: PWB10115LCS
Inj Date : 18-JAN-2007 17:31
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : PWB10115LCS
Misc Info : PWB10115LCS;070115W;15-JAN-2007;;;;;;;;;;;;;;;;
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b_A8082_1WS_1121.m
Meth Date : 19-Jan-2007 14:33 mdyer Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: sw846_1660.sub
Target Version: 4.12 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vo	1.000	Volume of sample extracted (L)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO
1 PCT-IS					CAS #:		
11.166	11.167	-0.001	7074				
$ 3 Decachlorobiphenyl					CAS #: 2051-24-3		
20.227	20.225	0.002	5431674	0.06951	0.6951		
4 Aroclor-1016					CAS #: 12674-11-2		
12.274	12.272	0.002	909506	0.53120	5.312	80.00- 120.00	100.00
12.348	12.347	0.001	736373	0.49287	4.929	61.10- 101.10	80.96
12.696	12.695	0.001	1237874	0.54322	5.432	117.70- 157.70	136.10
Average of Peak Concentrations =					5.224		
10 Aroclor-1260					CAS #: 11096-82-5		
16.494	16.494	0.000	1698964	0.41883	4.188	80.00- 120.00	100.00
16.976	16.977	-0.001	2034765	0.45674	4.567	90.24- 130.24	119.77
17.057	17.057	0.000	1000923	0.44966	4.496	33.58- 73.58	58.91
Average of Peak Concentrations =					4.417		

1/19/07

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA

PolyChlorinated Biphenyls (PCBs)

Sample Name: Laboratory Control Sample Duplicate
Lab Code: PWB10115LCSD
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

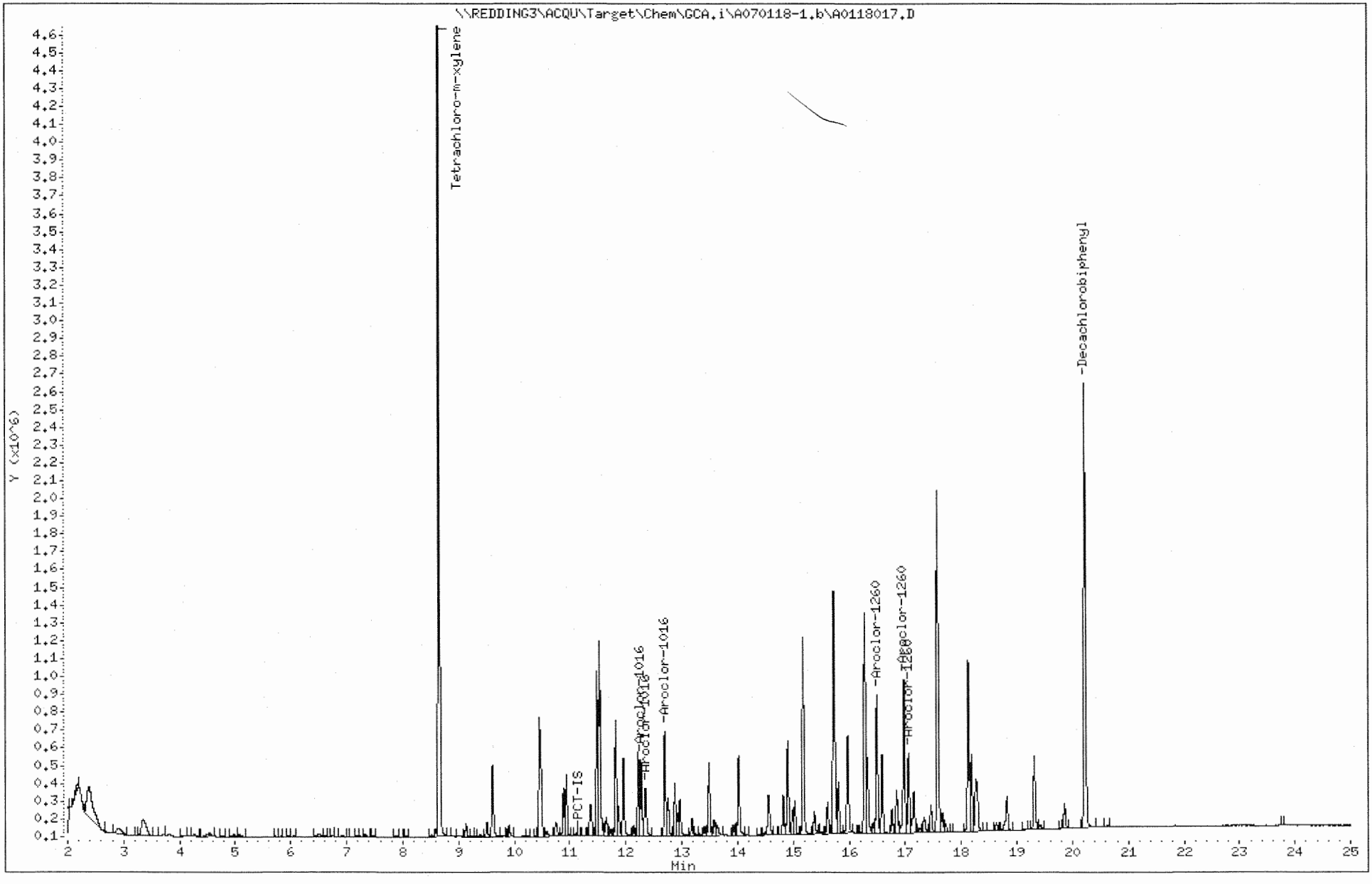
Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	**5.1**		0.12	1.0	1	01/15/2007	01/18/2007	PWB10115	
Aroclor 1260	**4.3**		0.034	1.0	1	01/15/2007	01/18/2007	PWB10115	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	70	10-110	01/18/2007	

Comments: _____

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118017.D
Date : 18-JAN-2007 18:01
Client ID: PWB10115LCSD
Sample Info: PWB10115LCSD
Volume Injected (uL): 1.0
Column phase: RTX-CLP

Instrument: gca.i
Operator: SW-846 8082
Column diameter: 0.32



Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118017.D
Lab Smp Id: PWB10115LCSD Client Smp ID: PWB10115LCSD
Inj Date : 18-JAN-2007 18:01
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : PWB10115LCSD
Misc Info : PWB10115LCSD;070115W;15-JAN-2007;;;;;;;;;;;;
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b_A8082_1WS_1121.m
Meth Date : 19-Jan-2007 14:33 mdyer Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 17 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: sw846_1660.sub
Target Version: 4.12 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vo	1.000	Volume of sample extracted (L)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 PCT-IS						CAS #:		
	11.163	11.167	-0.004	6292				
$ 3 Decachlorobiphenyl						CAS #: 2051-24-3		
	20.227	20.225	0.002	5485996	0.07026	0.7026		
4 Aroclor-1016						CAS #: 12674-11-2		
	12.272	12.272	0.000	883899	0.51538	5.154	80.00- 120.00	100.00
	12.349	12.347	0.002	714967	0.47746	4.774	61.10- 101.10	80.89
	12.694	12.695	-0.001	1199528	0.52587	5.259	117.70- 157.70	135.71
Average of Peak Concentrations =						5.062		
10 Aroclor-1260						CAS #: 11096-82-5		
	16.494	16.494	0.000	1672555	0.41188	4.119	80.00- 120.00	100.00
	16.976	16.977	-0.001	1994322	0.44729	4.473	90.24- 130.24	119.24
	17.057	17.057	0.000	985287	0.44213	4.421	33.58- 73.58	58.91
Average of Peak Concentrations =						4.338		

1/19/07

Raw Data

Data File: \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118020.D

Date : 18-JAN-2007 19:28

Client ID: MWCL-8

Instrument: gca.i

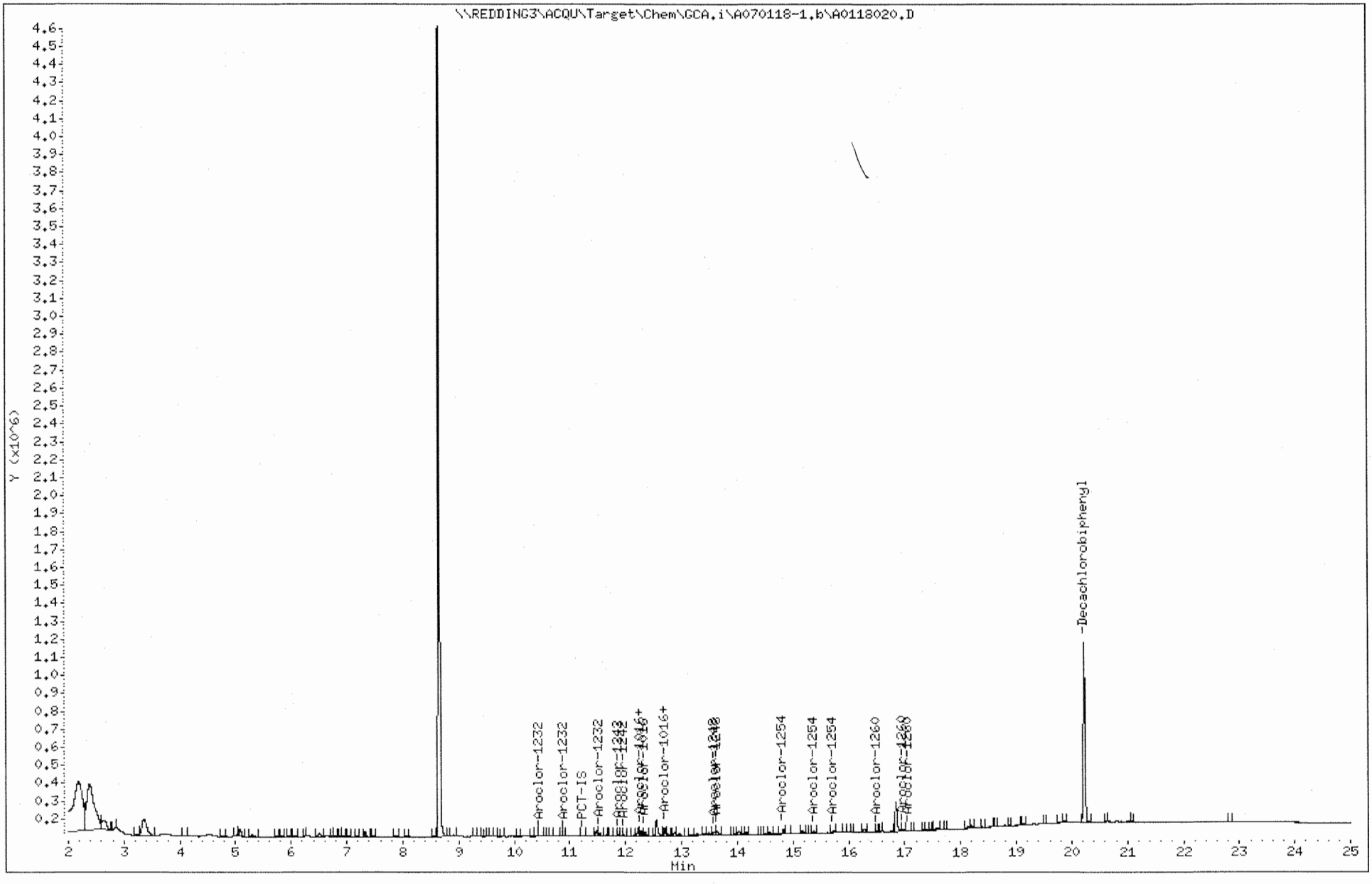
Sample Info: D0700056-016

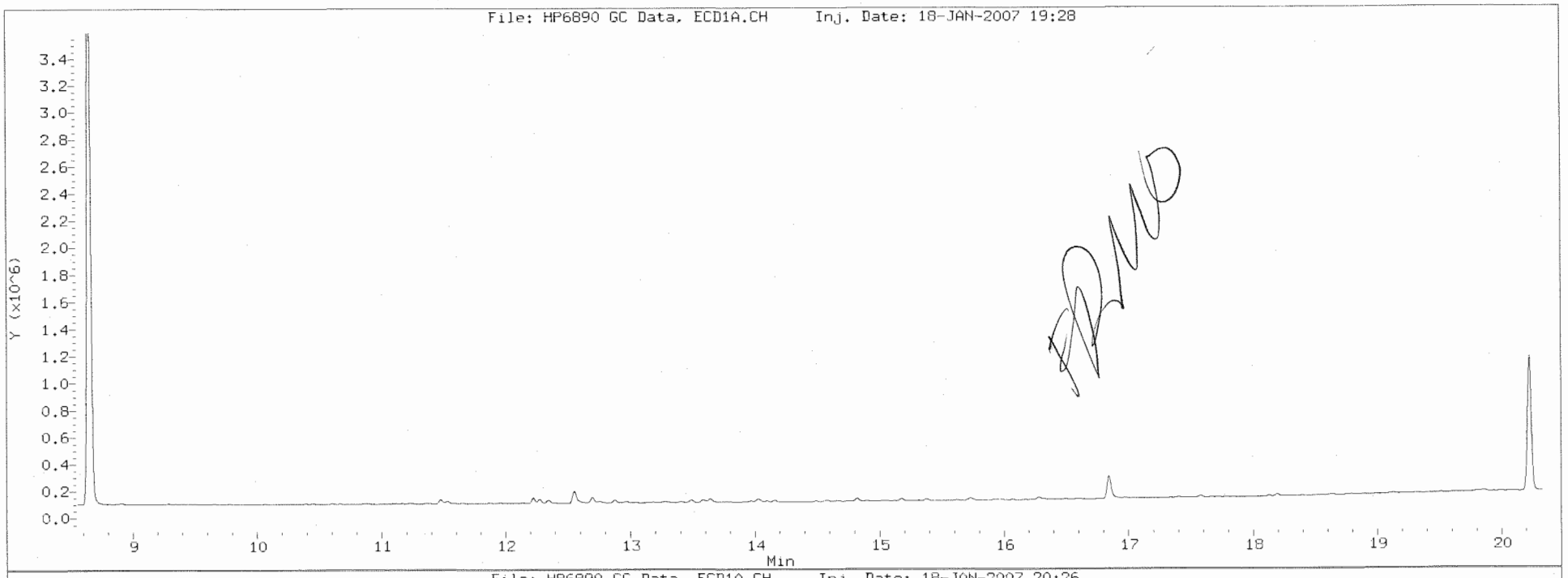
Volume Injected (uL): 1.0

Operator: SW-846 8082

Column phase: RTX-CLP

Column diameter: 0.32




File: HP6890 GC Data, ECD1A.CH Inj. Date: 18-JAN-2007 19:28
Y (x10^6)
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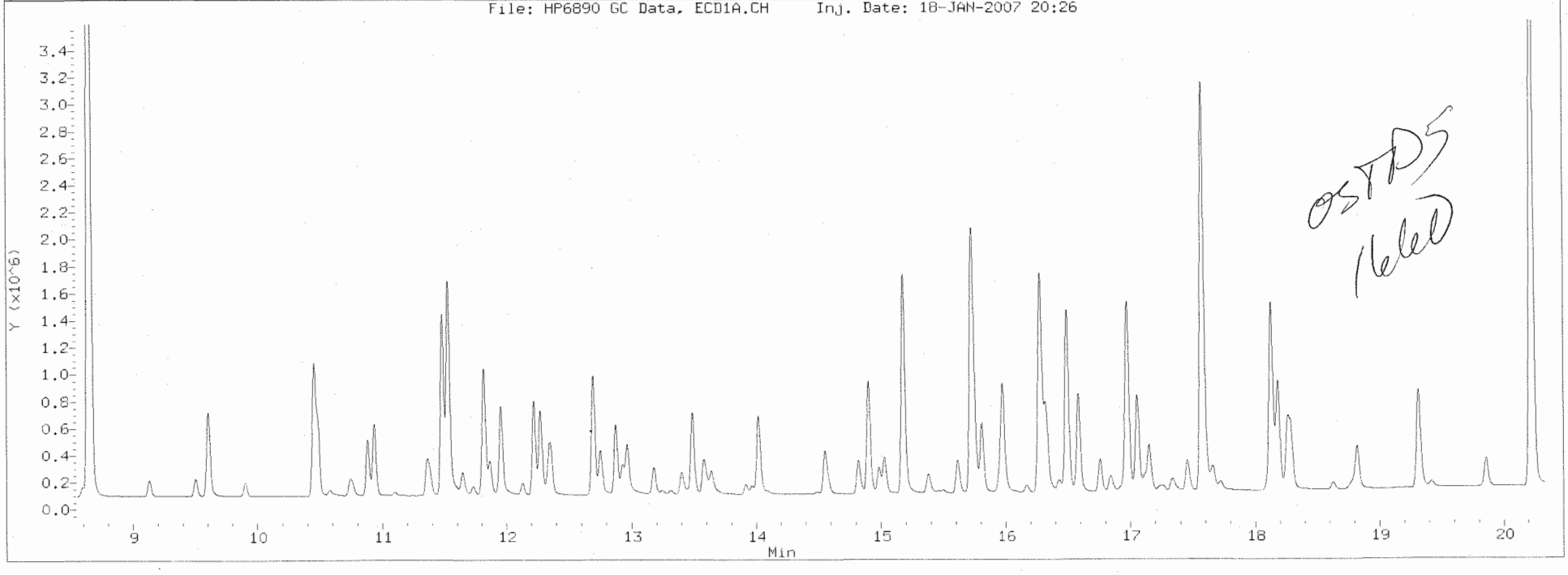
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
9
10
11
12
13
14
15
16
17
18
19
20
Min
PMD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Y (x10^6)
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3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
9
10
11
12
13
14
15
16
17
18
19
20
Min
OSTDS
labeled

Columbia Analytical Services - Redding

Data file : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b\A0118020.D
Lab Smp Id: D0700056-016 Client Smp ID: MWCL-8
Inj Date : 18-JAN-2007 19:28
Operator : SW-846 8082 Inst ID: gca.i
Smp Info : D0700056-016
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\GCA.i\A070118-1.b_A8082_1WS_1121.m
Meth Date : 19-Jan-2007 14:33 mdyer Quant Type: ESTD
Cal Date : 21-NOV-2006 16:46 Cal File: A1121022.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: sw846.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: RDD-MS-5

Concentration Formula: Amt * DF * Vt/(Vo*Vi) * CpndVariable

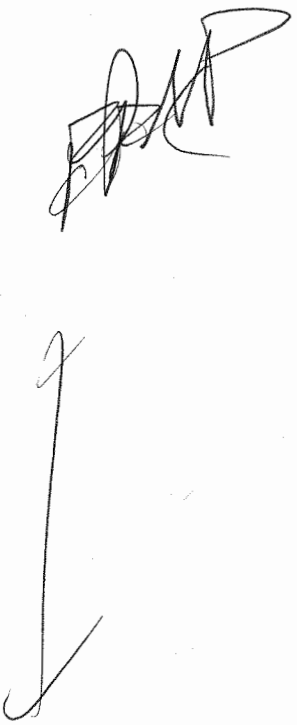
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vo	1.000	Volume of sample extracted (L)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO
1 PCT-IS						CAS #:		
	11.229	11.167	0.062	10769				
$ 3 Decachlorobiphenyl						CAS #: 2051-24-3		
	20.227	20.225	0.002	2182993	0.02508	0.2508		
4 Aroclor-1016						CAS #: 12674-11-2		
	12.272	12.272	0.000	59932	0.00650	0.06502	80.00- 120.00	100.00(a)
	12.343	12.347	-0.004	49796			61.10- 101.10	82.09
	12.696	12.695	0.001	86315	0.02230	0.2230	117.70- 157.70	144.02
Average of Peak Concentrations =						0.1440		
5 Aroclor-1221						CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

1/19/07

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO
6 Aroclor-1232					CAS #: 11141-16-5		
Qualifier signal(s) failed ratio test.							
7 Aroclor-1242					CAS #: 53469-21-9		
11.868	11.817	0.051	12453	0.00625	0.06252	80.00- 120.00	100.00(a)
11.959	11.955	0.004	10918	0.00660	0.06599	56.15- 96.15	87.68
12.272	12.272	0.000	59932	0.04084	0.4084	47.95- 87.95	481.26
		Average of Peak Concentrations =			0.1790		
8 Aroclor-1248					CAS #: 12672-29-6		
12.696	12.695	0.001	86315	0.02648	0.2648	80.00- 120.00	100.00(a)
13.578	13.577	0.001	45035	0.01320	0.1320	15.06- 55.06	52.18
13.638	13.636	0.002	60155	0.01354	0.1354	5.72- 45.72	69.69
		Average of Peak Concentrations =			0.1774		
9 Aroclor-1254					CAS #: 11097-69-1		
14.821	14.820	0.001	47138	0.00845	0.08454	80.00- 120.00	100.00(a)
15.374	15.378	-0.004	27453	0.00562	0.05625	43.38- 83.38	58.24
15.725	15.727	-0.002	37411	0.00839	0.08385	903.95- 943.95	79.36
		Average of Peak Concentrations =			0.07488		
10 Aroclor-1260					CAS #: 11096-82-5		
16.498	16.494	0.004	8347			80.00- 120.00	100.00(a)
16.973	16.977	-0.004	16790			90.24- 130.24	201.14
17.053	17.057	-0.004	5963			33.58- 73.58	71.43



QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Support Documentation

Columbia Analytical Services

Herb/Pest/PCB Injection Log

HP 6890

GC A

Date
11/21/06

Analyst: MMD

Method: 8082

Directory: A061121

Internal Standard: ———

Calibration Date: 11/21/06

Page: 62

Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
A061121	12	OSTD4 1221		STD	1x	22-6C - 79E	
	13	1232				- 79F	
	14	1242				- 79G	
	15	1248				- 83E	
	16	1254				- 79I	
	17	1268				- 80A	
	18	WASH					
	19	OSTD1 1660		STD	1x	22-6C - 77C	
	20	2				- 77D	
	21	3				- 77E	
	22	4				- 84I	
	23	5				- 84J	
	24	6				- 84H	
	25	OSTD4 ICVS				- 81D	
	26	WASH					

MMD 11/22/06

Columbia Analytical Services

Herb/Pest/PCB Injection Log

HP 6890

GC A

Date
4/18/07

Analyst: WD

Method: 8082/8151

Directory: A070118

Internal Standard: 22-6C-831-1/2

Calibration Date: 12/8

Page: 5

Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
A070118	1	PRIMER					
	2	HBLK 1/18					
	3	HSTD 3 HERB		STD	1x	22-6C-85J	
	4	WASH					
	5	HWB0110LCS		H_2O	1x		
	6	LCSD		↓	↓		
	7	↓					
	8	D0700024-001	.02	↓	↓		
	9	WASH					
	10	HSTD 4 HERB		STD	1x	22-6C-85K	
	11	WASH					
	12	PRIMER					
	13	01BLK 1/17					
	14	03STD4 1660		STD	1x	22-6C-87F	
	15	WASH					
	16	PWB101151LCS		H_2O	1x		
	17	LCSD		↓	↓		
	18	↓					
	19	D0700022-001	.03				
	20	D0700056-016	.08	↓	↓		
	21	WASH					
	22	6STDS 1660		STD	1x	22-6C-87G	
	23	WASH					

Liquid-Liquid Extraction, 3520C

Pesticide/PCB Water

Date	1-15-07
Time	10:45

43645 Batches: P0700022 / P0700056

Client(s): IBM Corp. / GeoSyntec

Analytical Method(s)

X	8081A		CLP
X	8082		TCLP,1311

Test Code(s): 8081/8082

Solvent Lots

DCM	46294 12/27 1/5
Acetone	
Hexane	46139 9/26 1/5

Spikes

Surrogate	14 -EXS- 478-3		
Amt.	1.0 ml	Exp:	2/7/07
Spike 1	14 -EXS- 52C		
Amt.	1.0 ml	Exp:	1/25/07
Spike 2	14 -EXS- 52A		
Amt.	1.0 ml	Exp:	3/22/07
Spike 3	-EXS-		
Amt.	ml	Exp:	

Spiked by: MD Witness: CLE

Cleanups

- [ ] GPC, 3640A — Calib: ____ By/date: ____ ID: ____
- [ ] ***Initial KD*** — 1.0ml aliquot saved — By/date: ____ vol: ml
- [ ] Florisil, 3620B — By/date: ____ Lot: ____
- [ ] Sulfuric Acid, 3665A — By/date: ____ Lot: ____
- [ ] Mercury, 3660B — By/date: ____ Lot: ____
- [X] No cleanups

Sample ID	Surrogate	Spike 1	Spike 2	Spike 3	Amt (1L)	Final KD: H2O bath temp 91 °C; Date & Volume	Relinq. Date
	X	X	X	X	By: CLE	By: CLE 1/16/07	By: CLE
PWB1	X				1.0	10.0ml	1/16/07
PWL1 pest	X	X			↓	↓	↓
PWL2 pest	X	X					
L3 ARO	X		X				
L4 ARO	X		X		↓		
P0700022-1 -05	X				1.05		
D0700056-16 -08	X				↓	↓	↓

- 8082 only

CLE 1/15/07

- [ ] Completed ms/msd
- [X] Sample limited, no ms/msd, duplicate LCS

017

Comments:

Peer Review By:

Organic Extractions Dept.
CAS-Redding

GC/MS VOLATILE ORGANICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056

Cover Page - Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
BLD120-MW-1	D0700056-001	01/09/2007	01/13/2007
BLD120-MW-6	D0700056-002	01/09/2007	01/13/2007
QCEB	D0700056-003	01/09/2007	01/13/2007
BLD120-MW-2	D0700056-004	01/09/2007	01/13/2007
BLD120-MW-3	D0700056-005	01/09/2007	01/13/2007
BLD120-MW-4	D0700056-006	01/10/2007	01/13/2007
BLD120-MW-5	D0700056-007	01/10/2007	01/13/2007
BLD102-MW-4	D0700056-008	01/10/2007	01/13/2007
MWCL-1	D0700056-009	01/10/2007	01/13/2007
MWCL-2	D0700056-010	01/11/2007	01/13/2007
MWCL-3	D0700056-011	01/11/2007	01/13/2007
MWCL-4	D0700056-012	01/11/2007	01/13/2007
MWCL-6	D0700056-013	01/11/2007	01/13/2007
MWCL-7	D0700056-014	01/12/2007	01/13/2007
MWCL-5	D0700056-015	01/12/2007	01/13/2007
MWCL-8	D0700056-016	01/12/2007	01/13/2007

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: BMc
Name: Brian Moore
Date: 01/19/07
Title: Technical Manager

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-1
Lab Code: D0700056-001
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.5	10	10	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	2.4	10	10	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	**7.0**		1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	1.8	10	10	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	1.8	10	10	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	1.5	20	10	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	**400**		1.5	5.0	10	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	9.1	100	10	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	1.4	20	10	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	1.9	20	10	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	**100**		1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	1.1	20	10	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	**50**		1.1	5.0	10	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	2.4	100	10	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	ND	U	6.6	100	10	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	1.7	5.0	10	01/19/2007	01/19/2007	K0118W02	
Chloroform	**2.0**	J	1.3	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	1.4	5.0	10	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	1.3	5.0	10	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	1.3	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	**4.3**	J	1.0	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	1.5	5.0	10	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	1.4	10	10	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	1.4	5.0	10	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	5.6	100	10	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	1.3	5.0	10	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.90	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	1.5	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	1.1	5.0	10	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	4.9	100	10	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	1.2	10	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromoethane (EDB)	ND	U	1.9	10	10	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	1.2	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	1.9	5.0	10	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-1
Lab Code: D0700056-001
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.1	5.0	10	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	1.0	15	10	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.70	5.0	10	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	1.8	10	10	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	2.0	5.0	10	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	1.3	10	10	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	2.0	5.0	10	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	1.1	10	10	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	1.4	10	10	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.80	10	10	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.80	10	10	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	1.5	5.0	10	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.60	10	10	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	1.4	5.0	10	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	1.0	10	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	1.2	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	9.5	20	10	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	1.1	10	10	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	2.6	10	10	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	1.0	10	10	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	1.5	10	10	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**3100**	D	14	50	100	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	**2700**	D	14	50	100	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	**3400**	D	9.0	50	100	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	111	79-135	01/19/2007	
4-Bromofluorobenzene - SS	100	82-124	01/19/2007	
Dibromofluoromethane - SS	103	84-127	01/19/2007	
Toluene-d8 - SS	100	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D
Lab Smp Id: D0700056-001 Client Smp ID: BLD120-MW-1
Inj Date : 19-JAN-2007 07:09
Operator : X Inst ID: MSK.i
Smp Info : D0700056-001
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 3
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

BAI 1/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.688	9.673	(1.000)	1044134	10.0000	
* 2	Chlorobenzene-d5	117	13.020	13.020	(1.000)	698033	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.608	15.593	(1.000)	280359	10.0000	
$ 4	Dibromofluoromethane	113	8.885	8.870	(0.917)	347742	10.3336	10.3
$ 5	1,2-Dichloroethane-d4	65	9.287	9.287	(0.959)	345005	11.1442	11.1
$ 6	Toluene-d8	98	11.428	11.414	(0.878)	907462	10.0206	10.0
$ 7	Bromofluorobenzene	174	14.284	14.284	(0.915)	253154	9.97993	9.98
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	4.051	4.036	(0.418)	19856	0.70323	7.03
12	Bromomethane	94	4.601	4.646	(0.475)	1482	0.69210	~~6.92(a2)~~
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	6.059	6.044	(0.625)	1016379	40.2623	403
18	Acetone	43	6.089	6.059	(0.628)	26651	0.91510	~~9.15(a)~~
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	7.100	7.085	(0.733)	312016	9.98119	99.8
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	7.636	7.621	(0.788)	298263	5.03506	50.4
30	Vinyl acetate	43	Compound Not Detected.					

RL 1/19/7

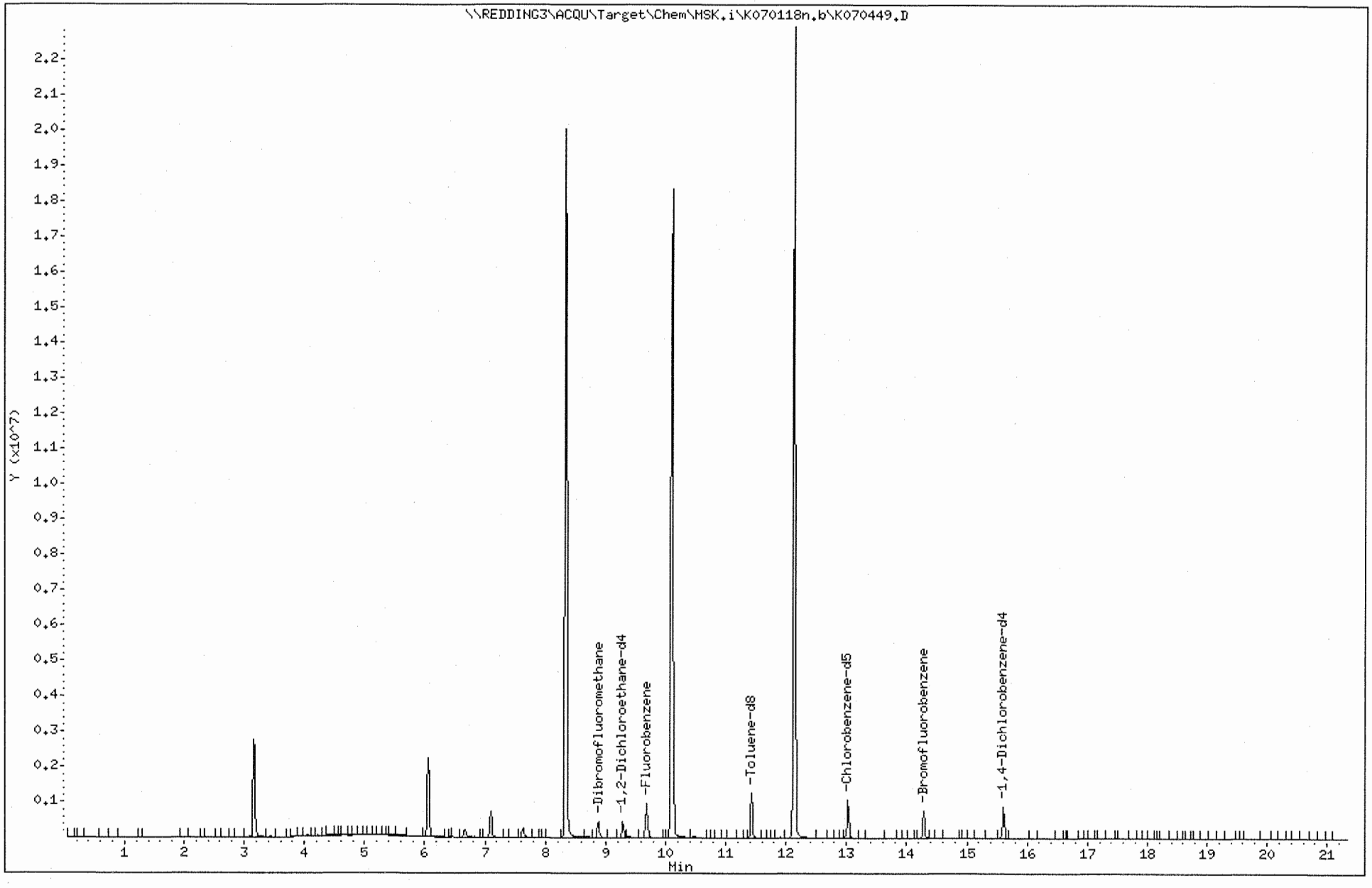
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.335	8.335	(0.860)	10040918	292.598	2920(A)
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.692	8.677	(0.897)	11390	0.20463	2.05(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.376	9.361	(0.968)	16864	0.43234	4.32(a)
45	Trichloroethene	95	10.105	10.090	(1.043)	8177422	251.316	2510(A)
46	1,2-Dichloropropane	63	10.105	10.328	(1.043)	28971	0.83004	~~8.30(Q)~~
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.127	11.890	(0.931)	200888	11.0320	~~110(Q)~~
56	Tetrachloroethene	166	12.127	12.128	(0.931)	8282292	317.583	3180(A)
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D
Date : 19-JAN-2007 07:09
Client ID: BLD120-MW-1
Sample Info: D0700056-001
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

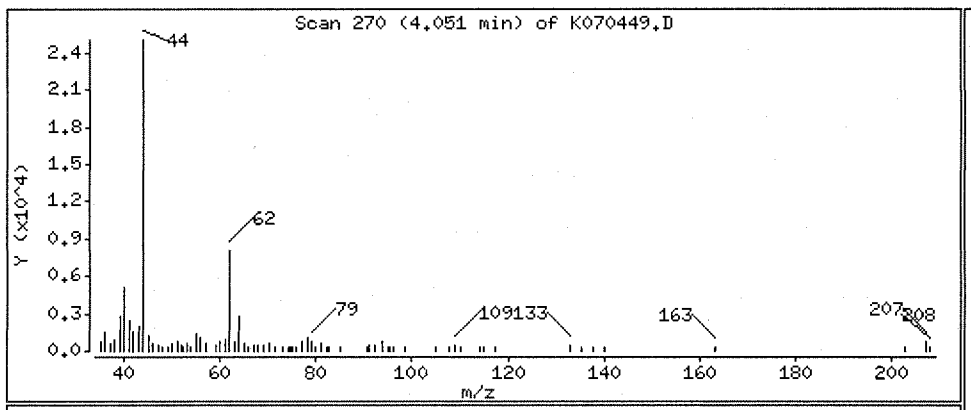
Client ID: BLD120-MW-1 Instrument: MSK.i

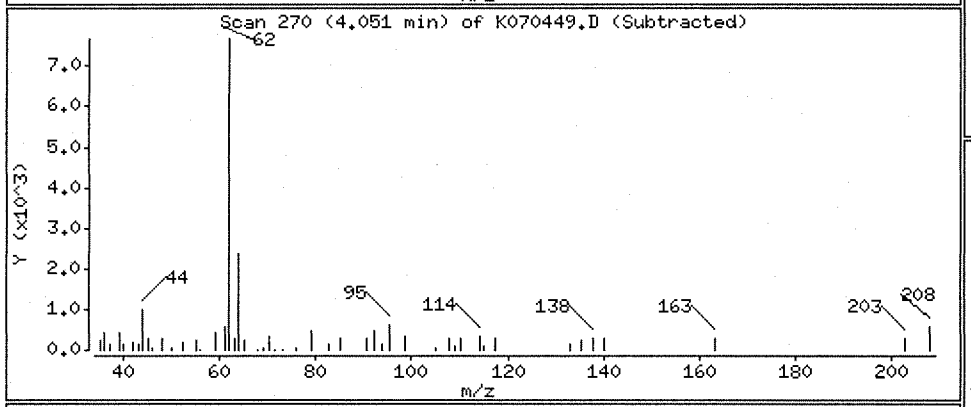
Sample Info: D0700056-001

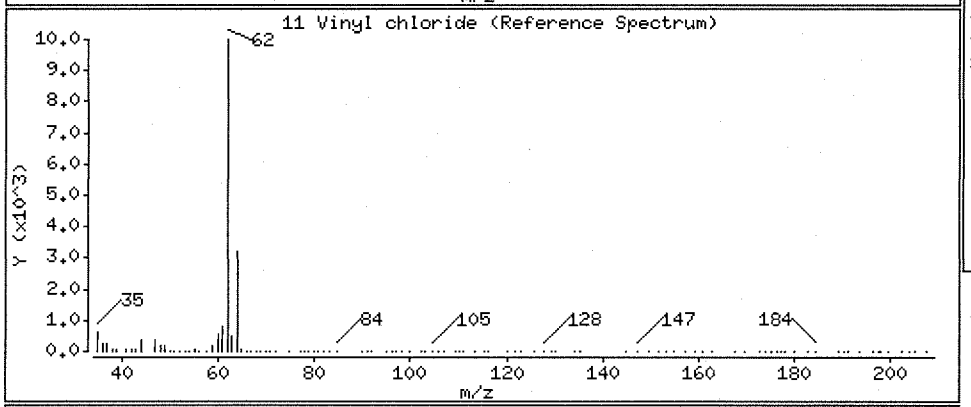
Purge Volume: 10.0 Operator: X

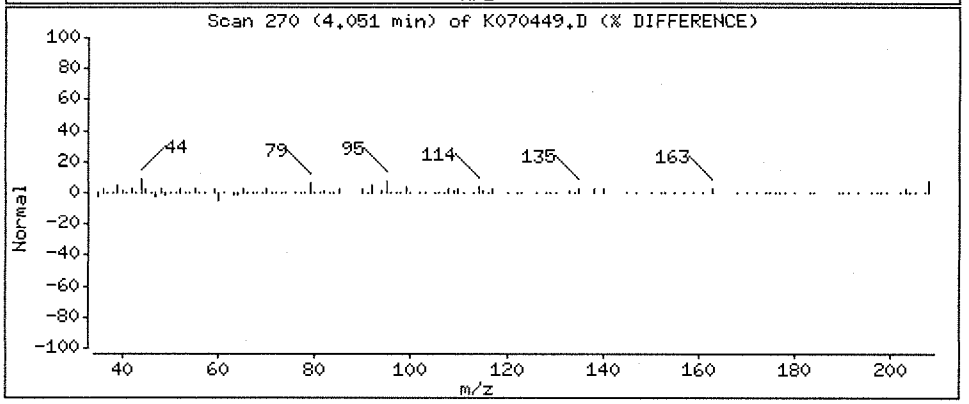
Column phase: DB-624 Column diameter: 0.32

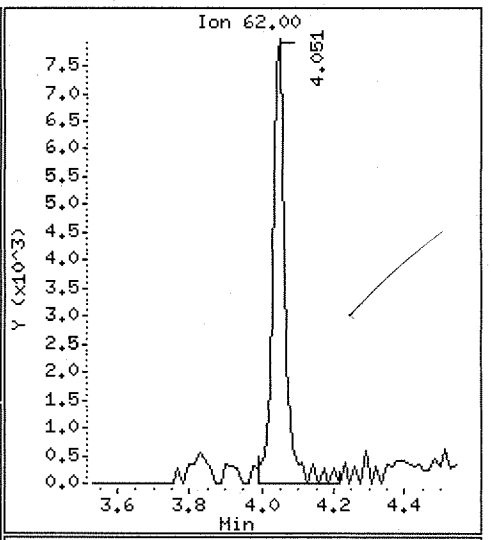
11 Vinyl chloride Concentration: 7.03 ug/L

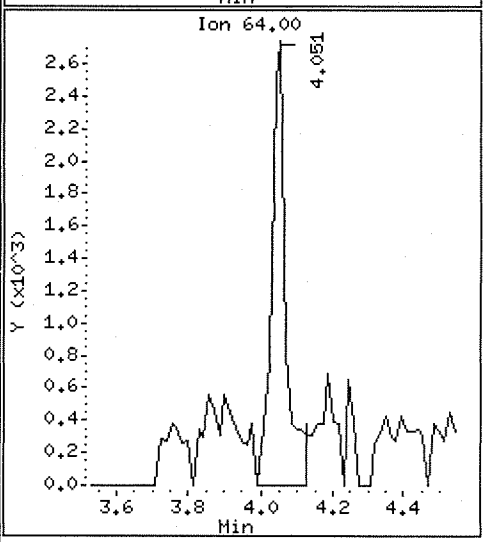












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

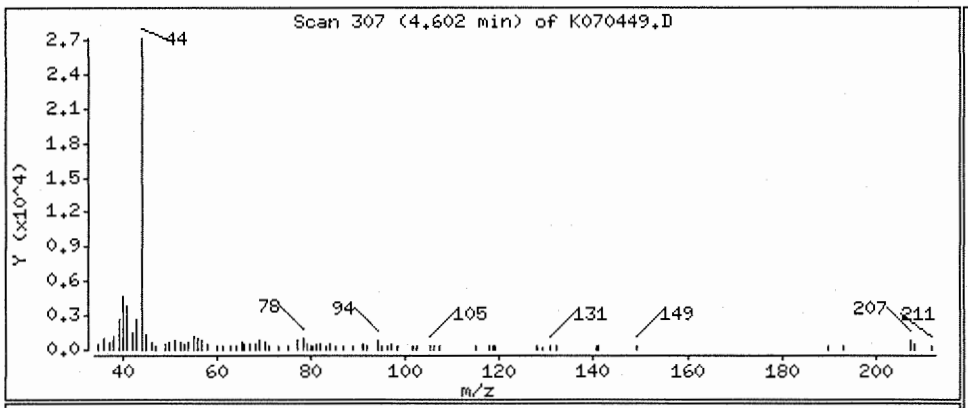
Client ID: BLD120-MW-1 Instrument: MSK.i

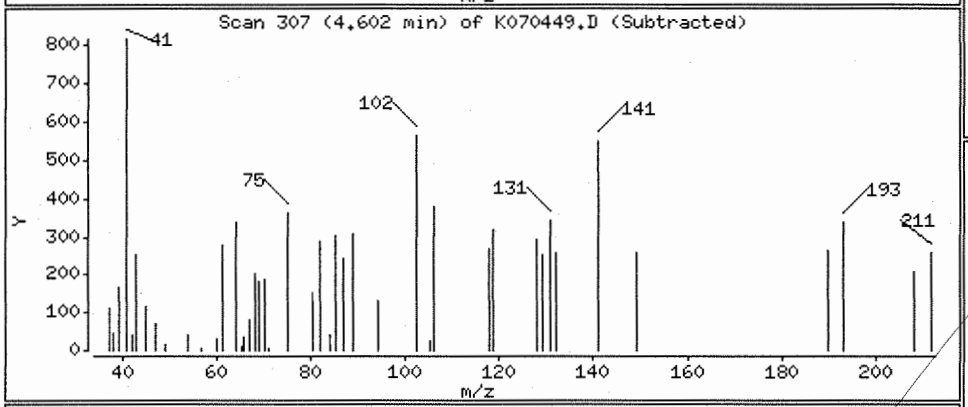
Sample Info: D0700056-001

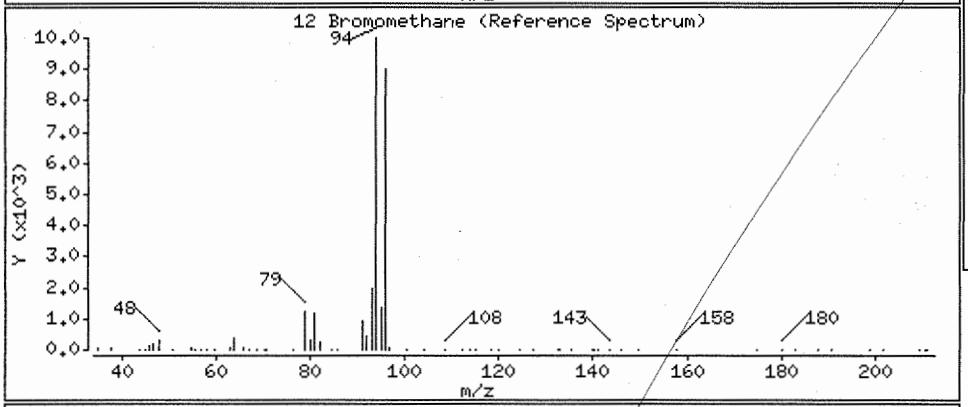
Purge Volume: 10.0 Operator: X

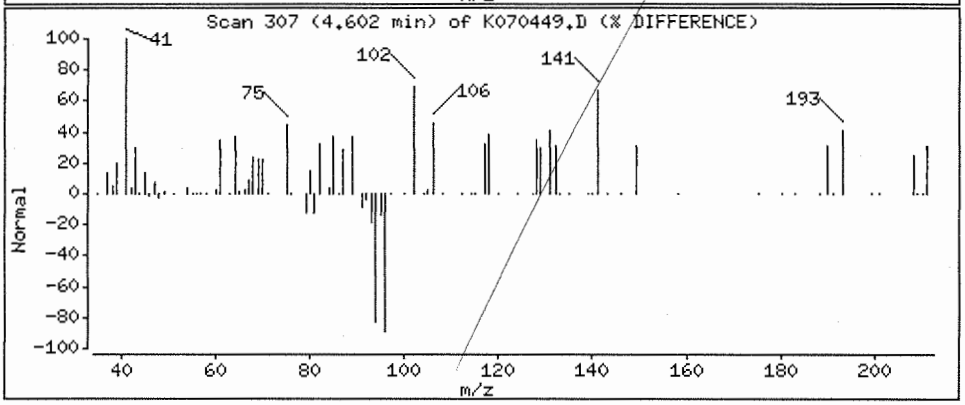
Column phase: DB-624 Column diameter: 0.32

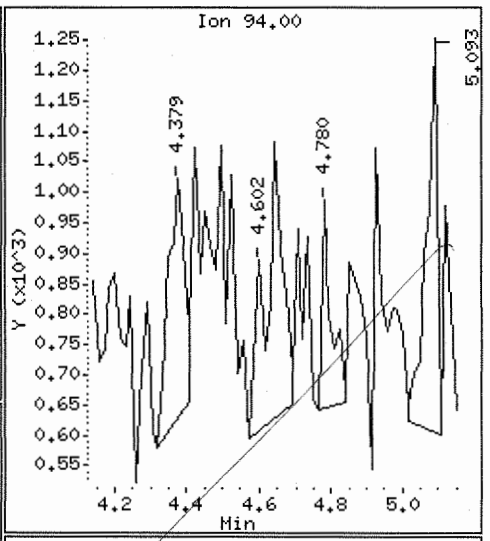
12 Bromomethane Concentration: 6.92 ug/L

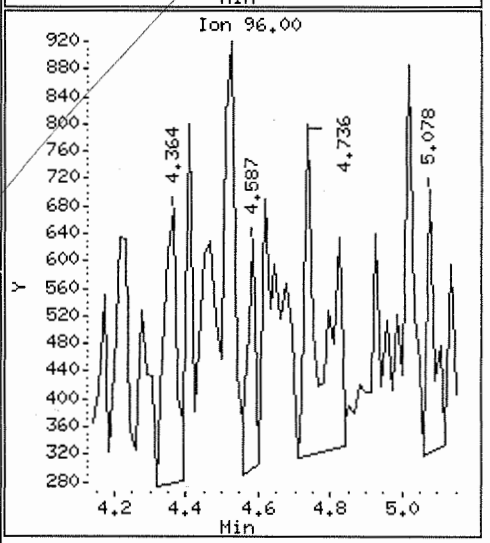












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

Client ID: BLD120-MW-1

Instrument: MSK.i

Sample Info: D0700056-001

Purge Volume: 10.0

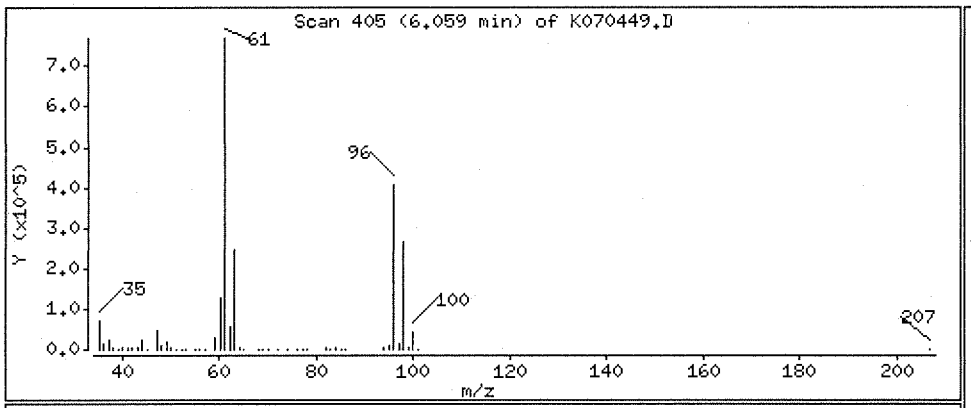
Operator: X

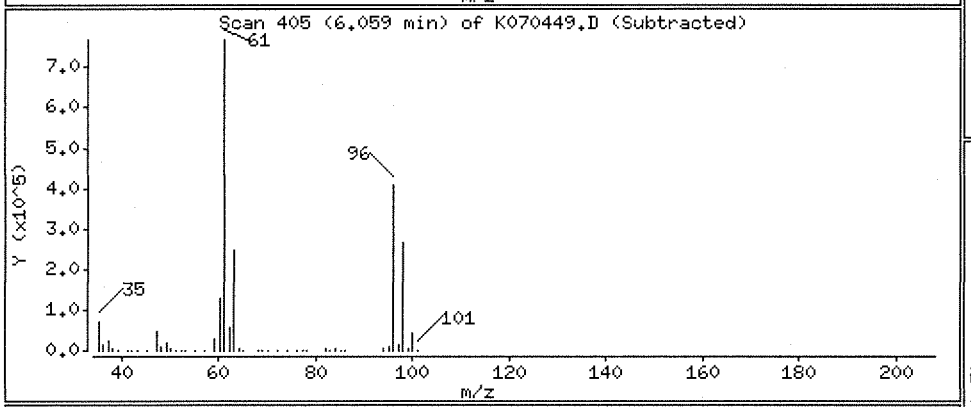
Column phase: DB-624

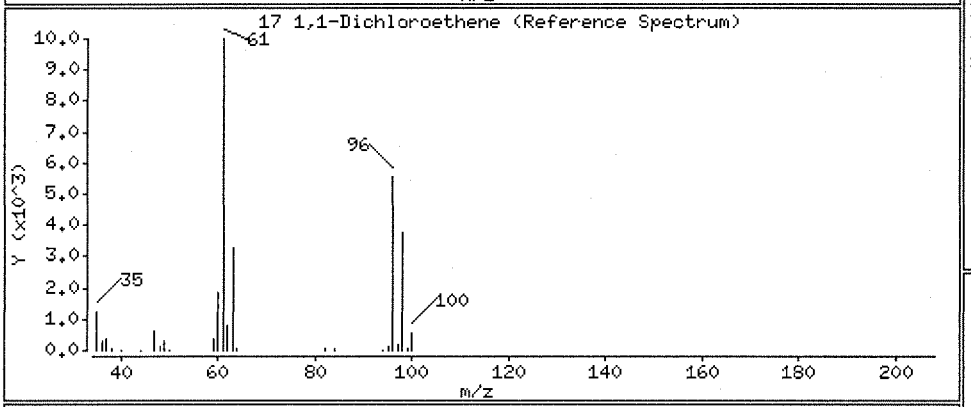
Column diameter: 0.32

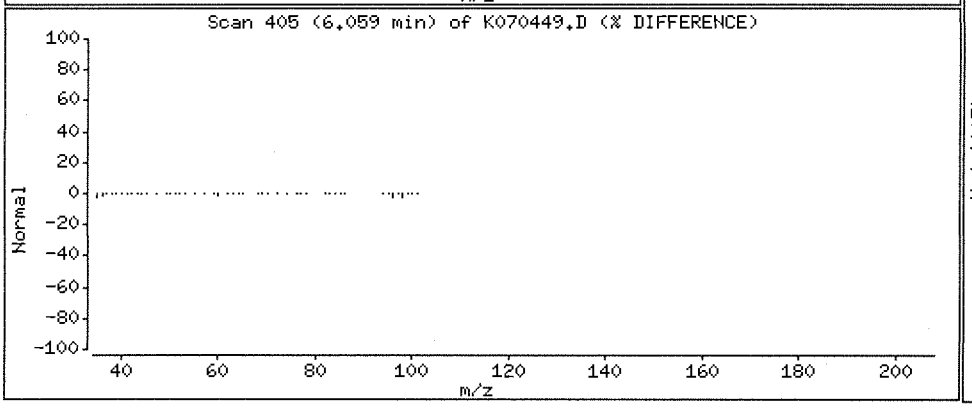
17 1,1-Dichloroethene

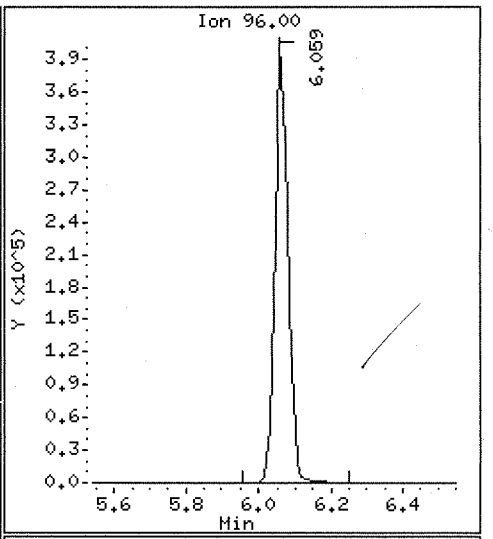
Concentration: 403 ug/L

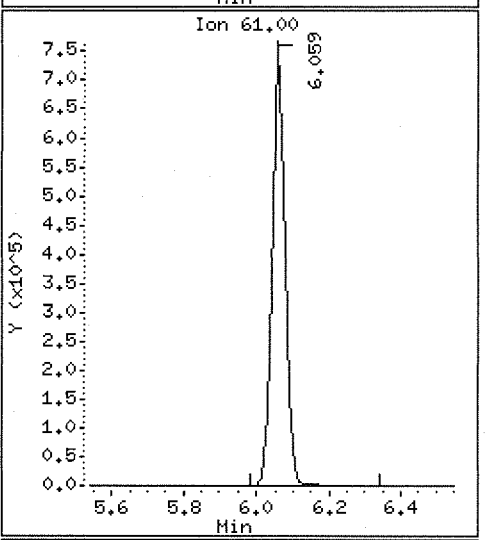


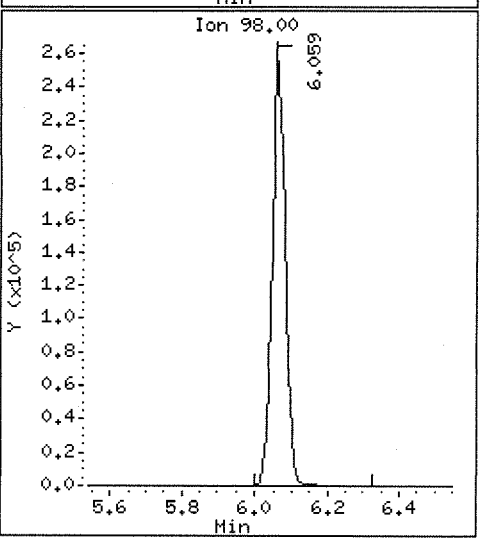












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

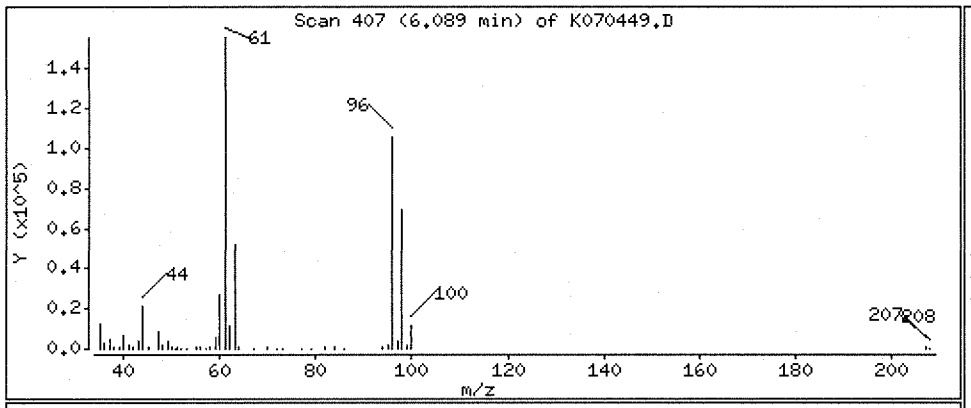
Client ID: BLD120-MW-1 Instrument: MSK.i

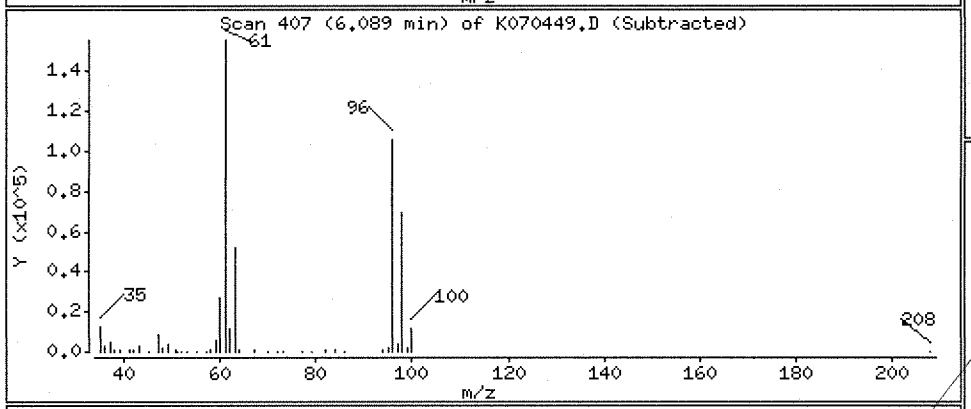
Sample Info: D0700056-001

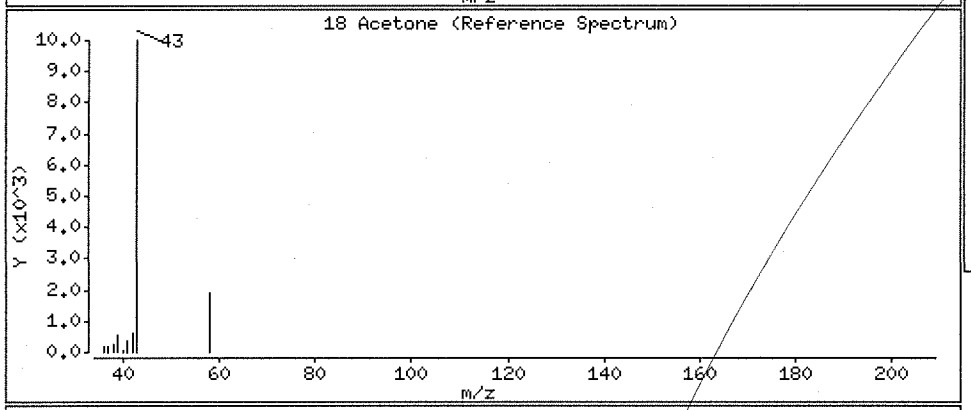
Purge Volume: 10.0 Operator: X

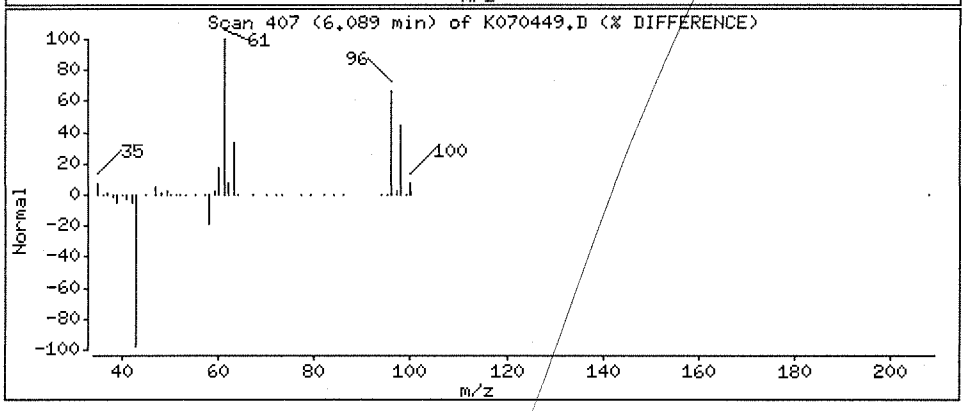
Column phase: DB-624 Column diameter: 0.32

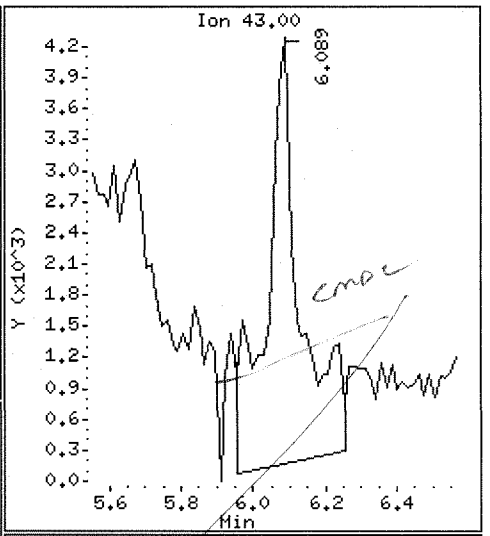
18 Acetone Concentration: 9.15 ug/L

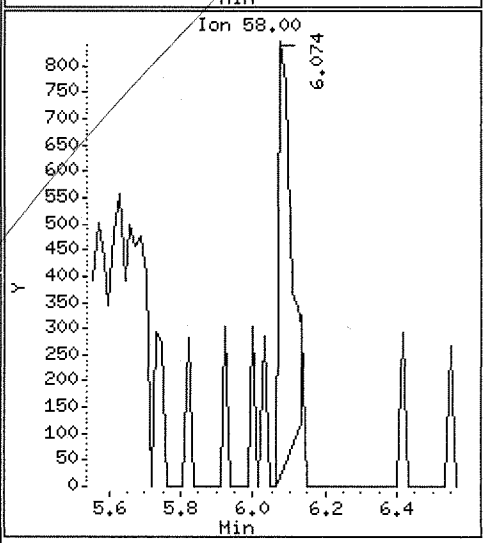












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

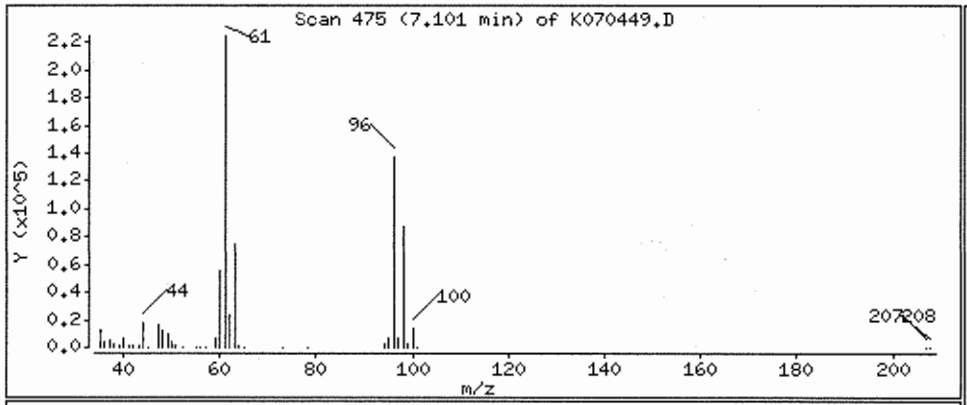
Client ID: BLD120-MW-1 Instrument: MSK.i

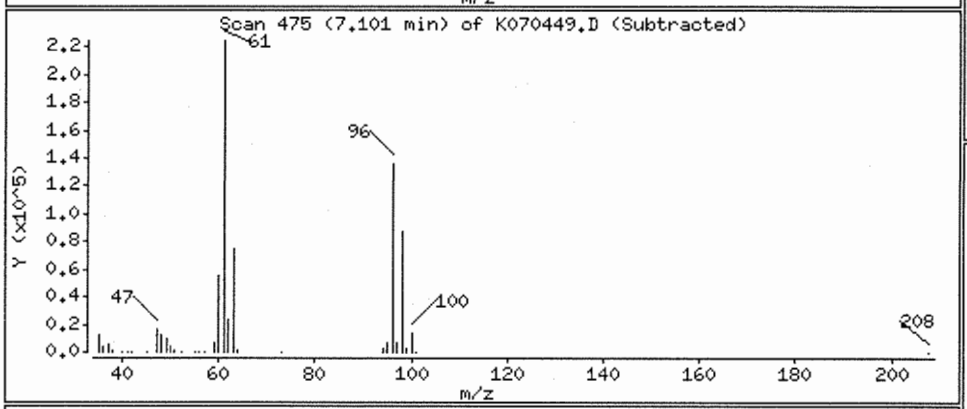
Sample Info: D0700056-001

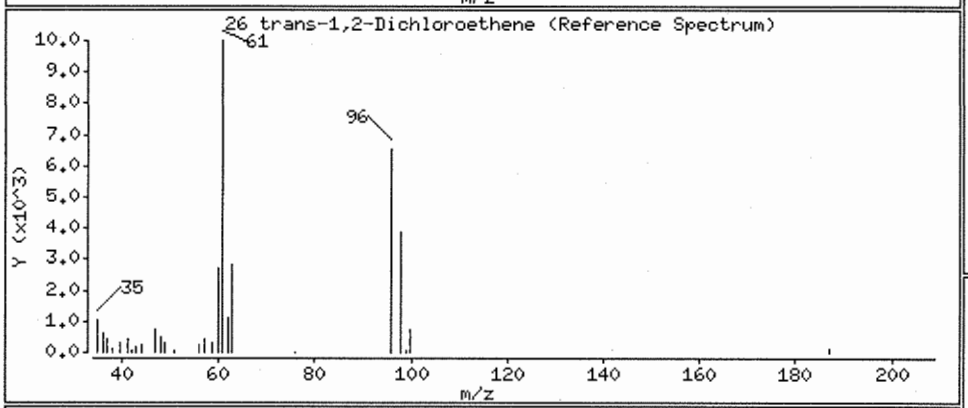
Purge Volume: 10.0 Operator: X

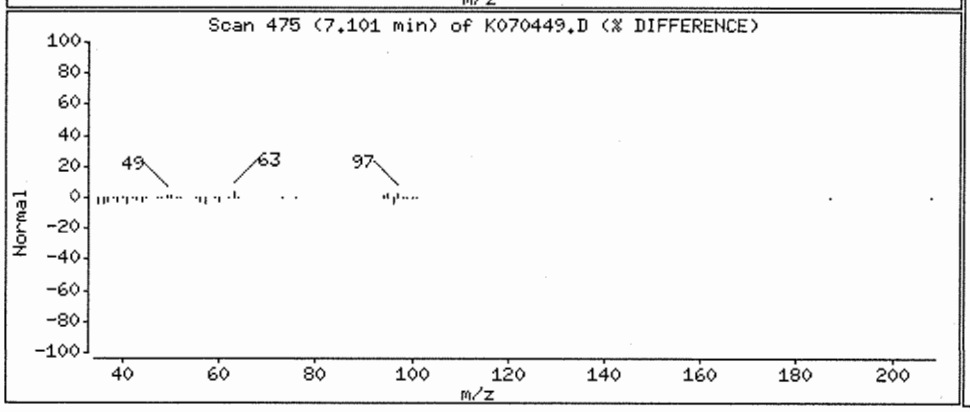
Column phase: DB-624 Column diameter: 0.32

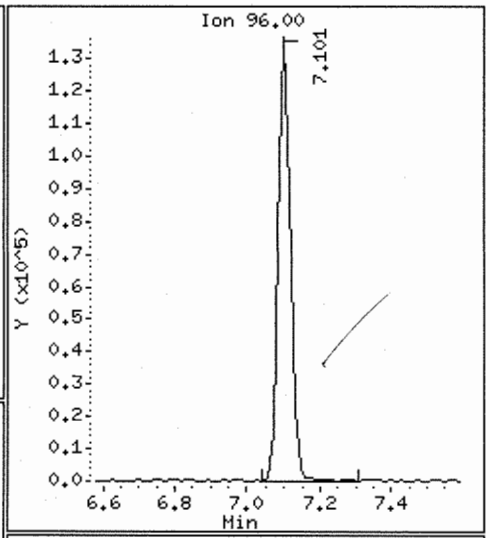
26 trans-1,2-Dichloroethene Concentration: 99.8 ug/L

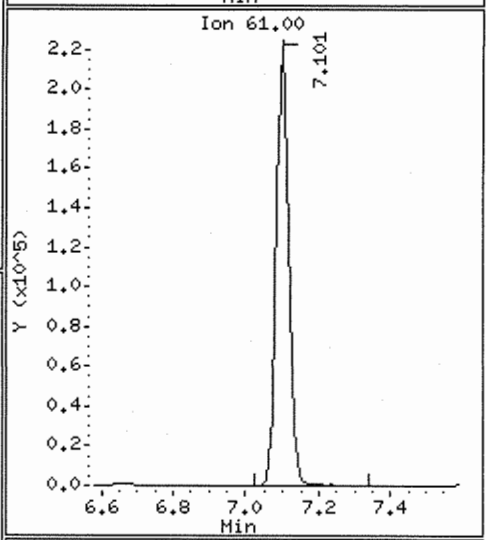


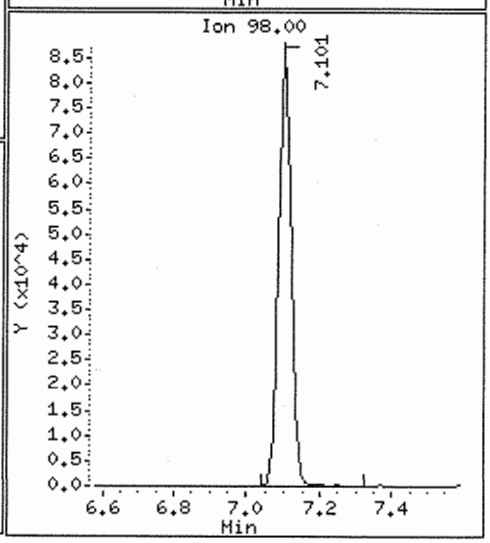












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

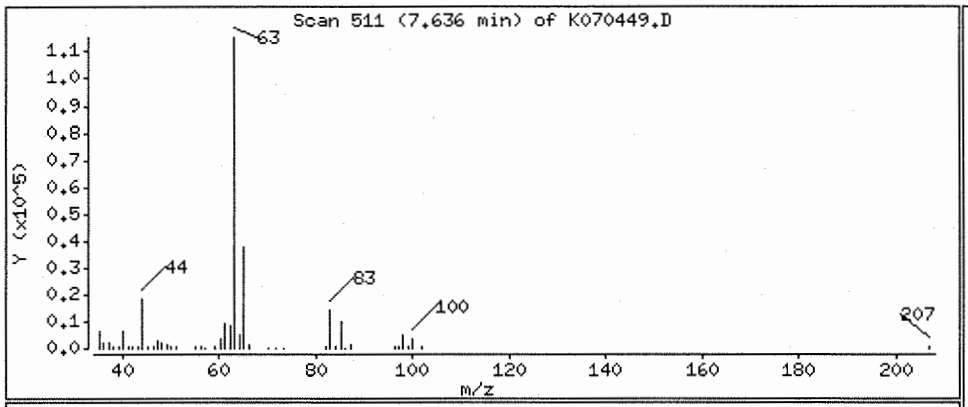
Client ID: BLD120-MW-1 Instrument: MSK.i

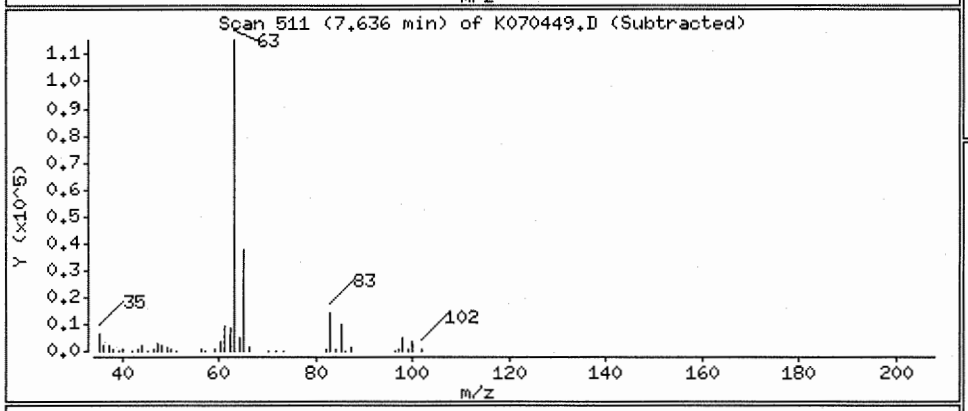
Sample Info: D0700056-001

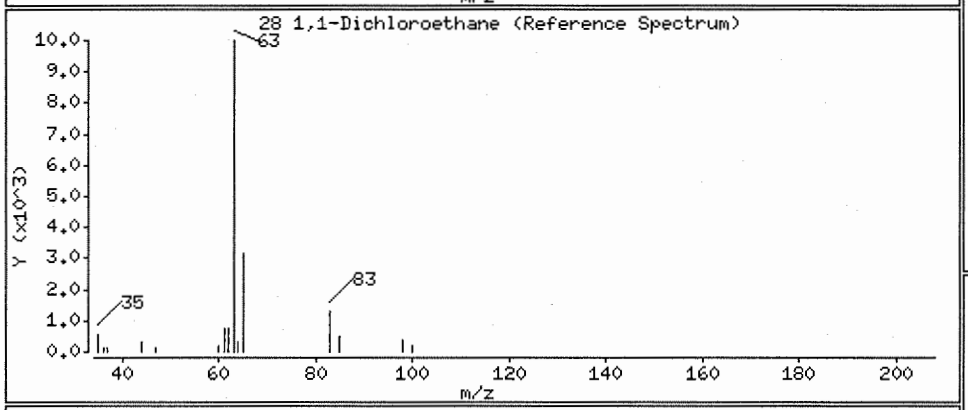
Purge Volume: 10.0 Operator: X

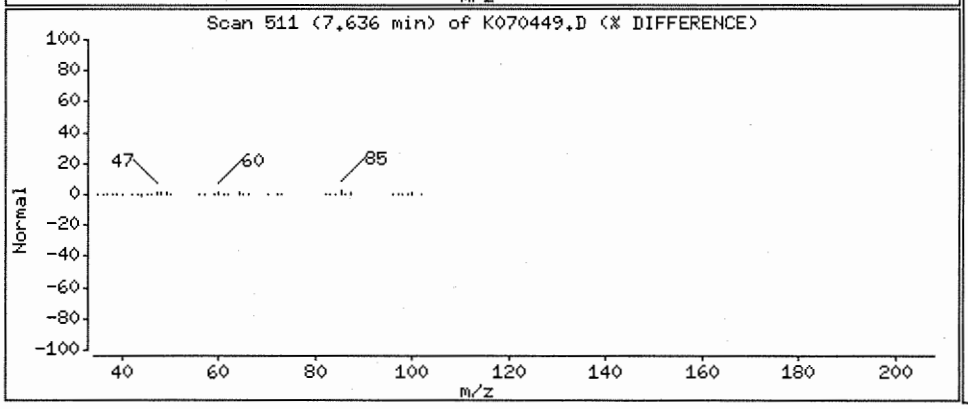
Column phase: DB-624 Column diameter: 0.32

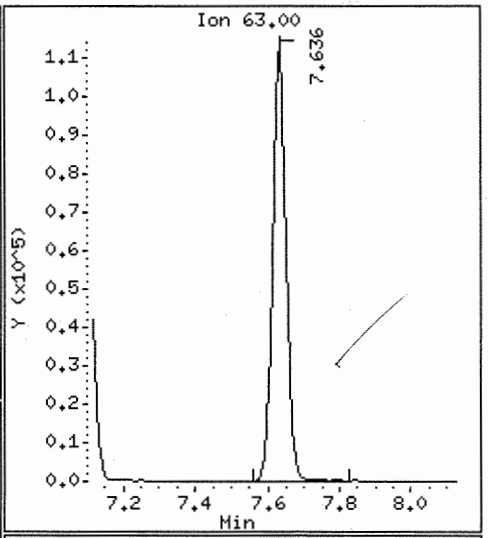
28 1,1-Dichloroethane Concentration: 50.4 ug/L

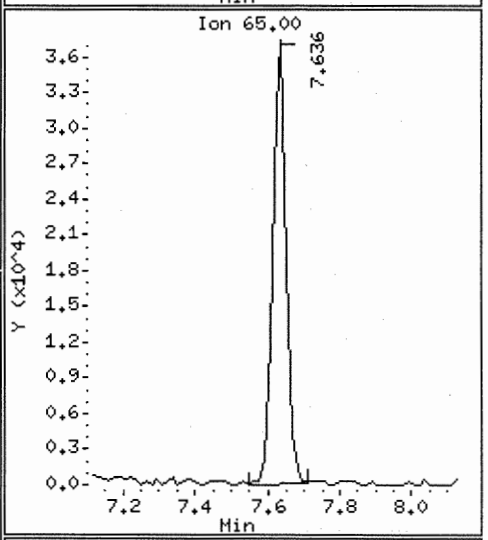


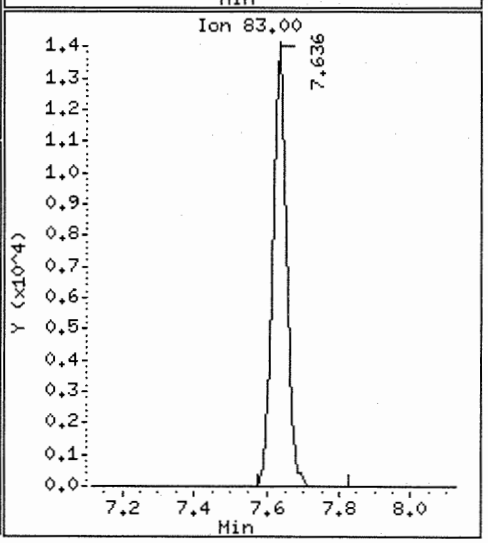












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

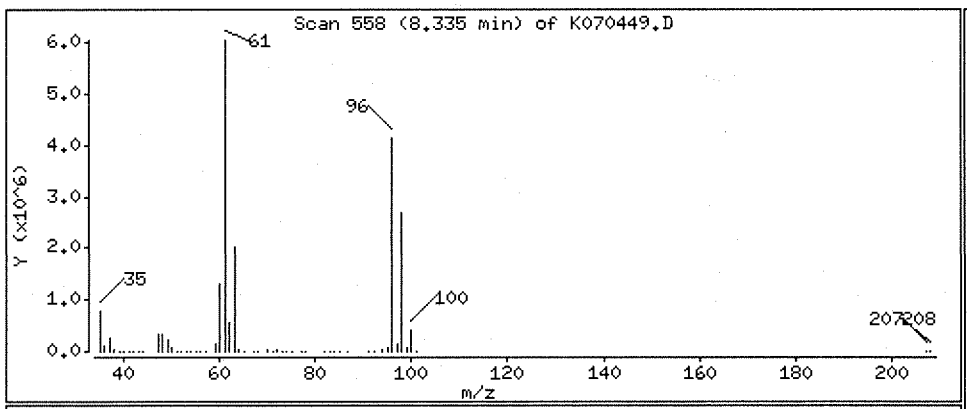
Client ID: BLD120-MW-1 Instrument: MSK.i

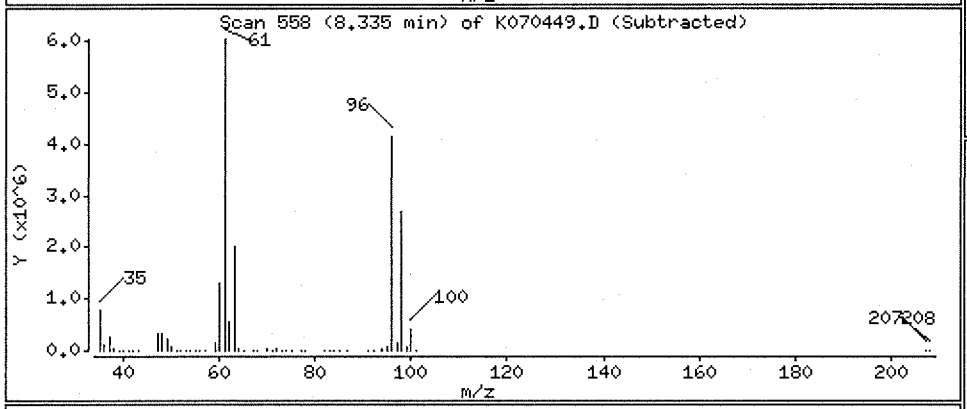
Sample Info: D0700056-001

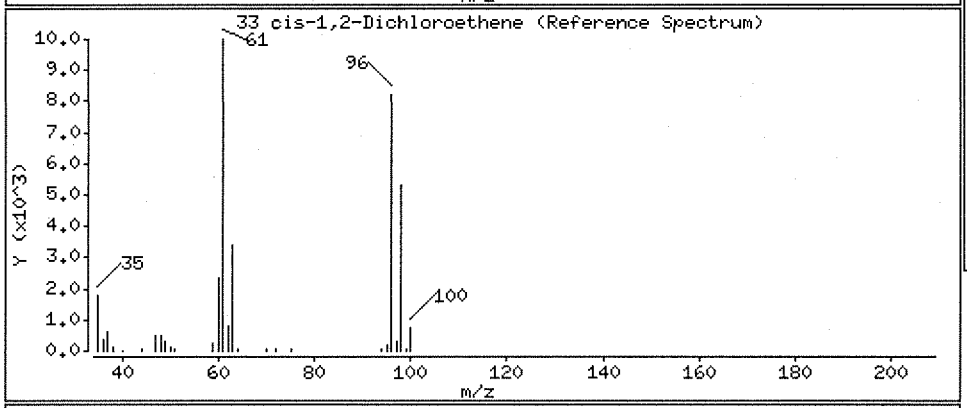
Purge Volume: 10.0 Operator: X

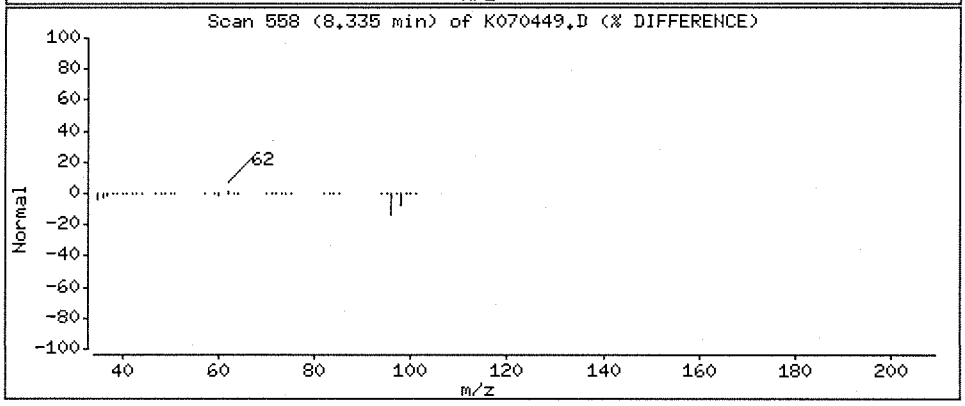
Column phase: DB-624 Column diameter: 0.32

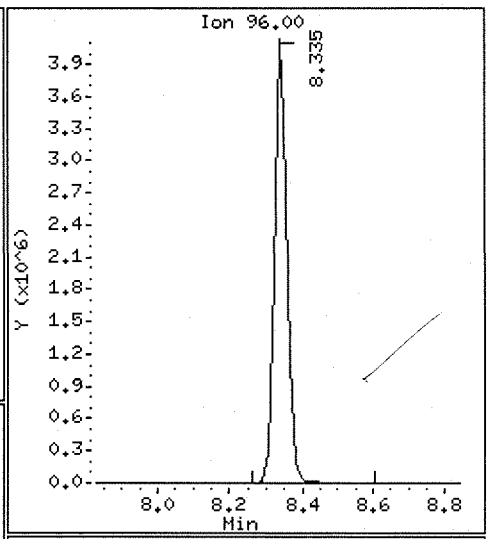
33 cis-1,2-Dichloroethene Concentration: 2920 ug/L

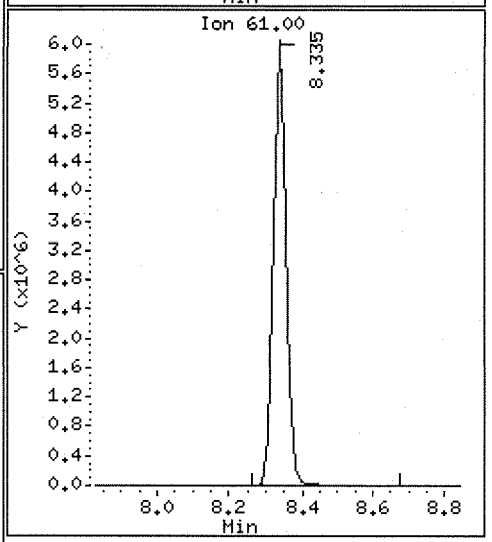












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

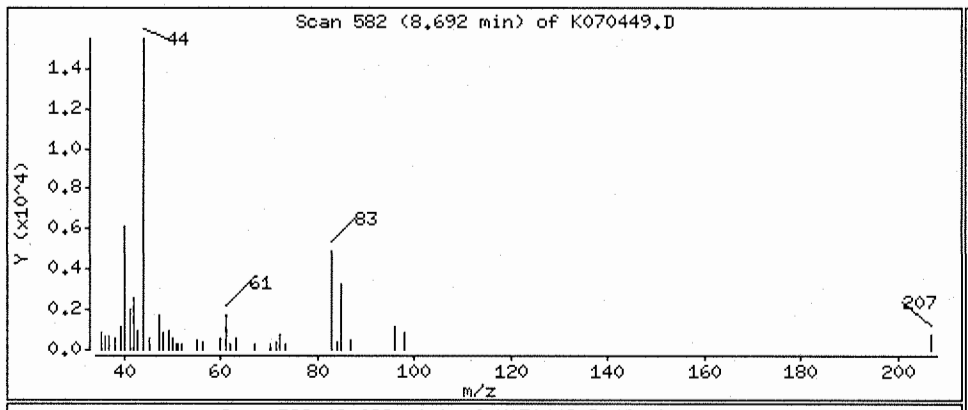
Client ID: BLD120-MW-1 Instrument: MSK.i

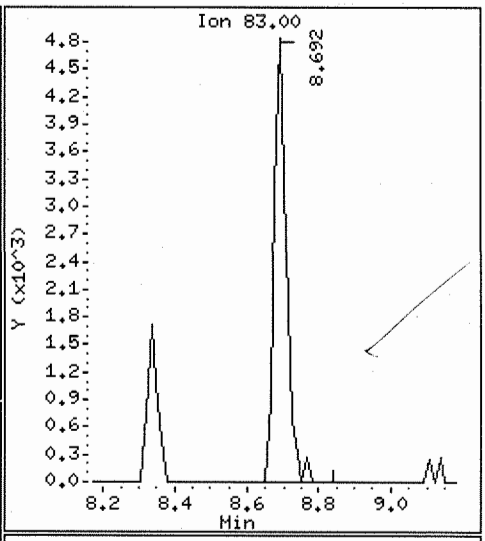
Sample Info: D0700056-001

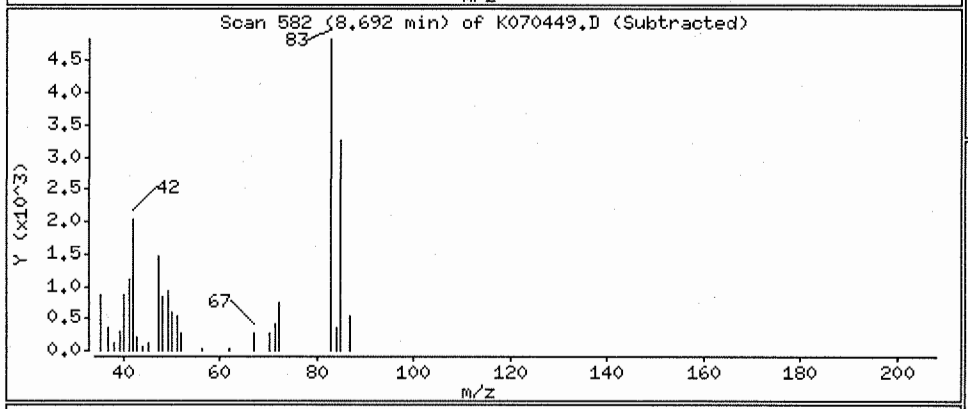
Purge Volume: 10.0 Operator: X

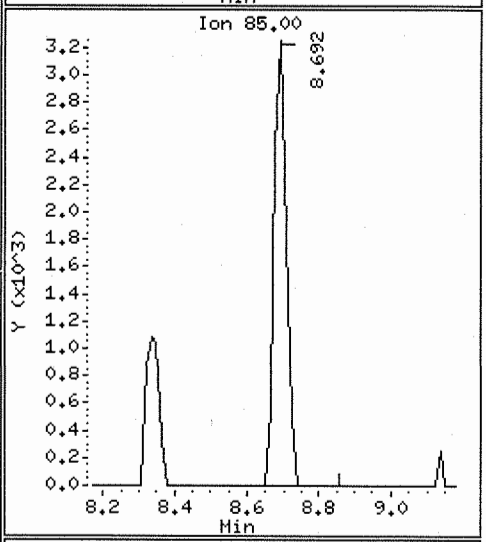
Column phase: DB-624 Column diameter: 0.32

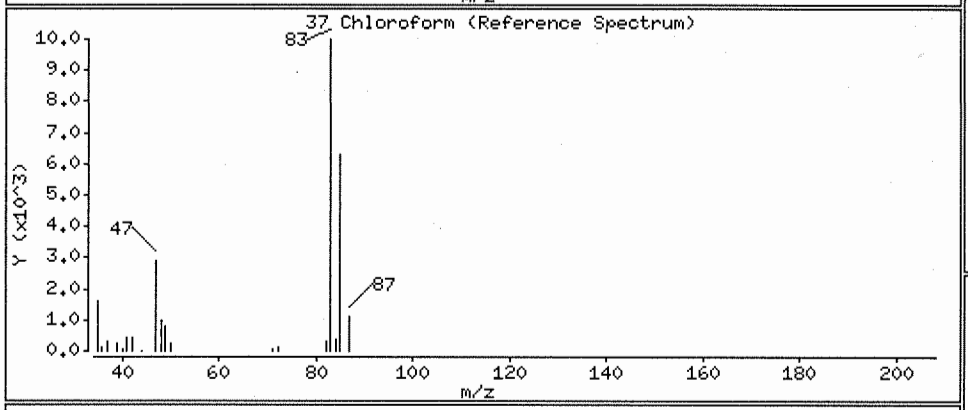
37 Chloroform Concentration: 2.05 ug/L

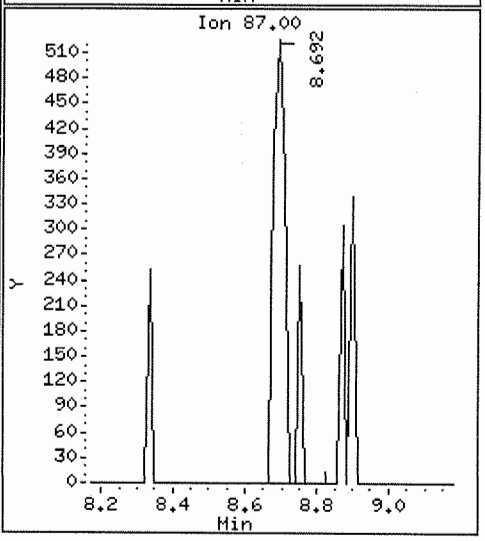


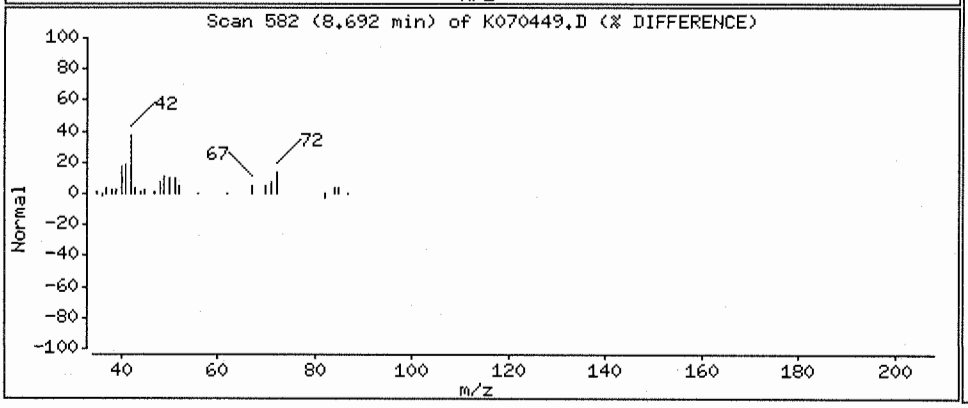












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

Client ID: BLD120-MW-1

Instrument: MSK.i

Sample Info: D0700056-001

Purge Volume: 10.0

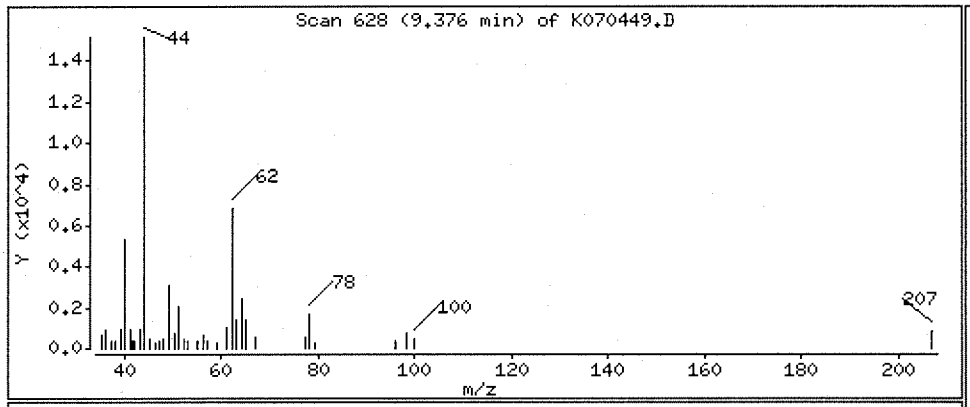
Operator: X

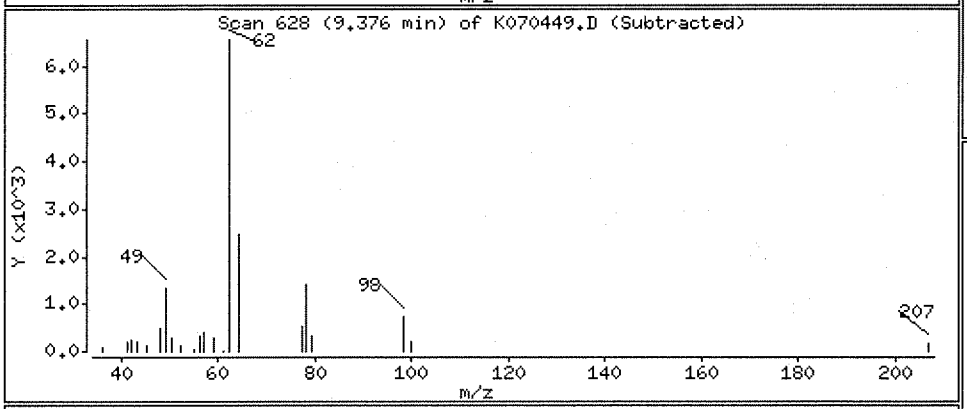
Column phase: DB-624

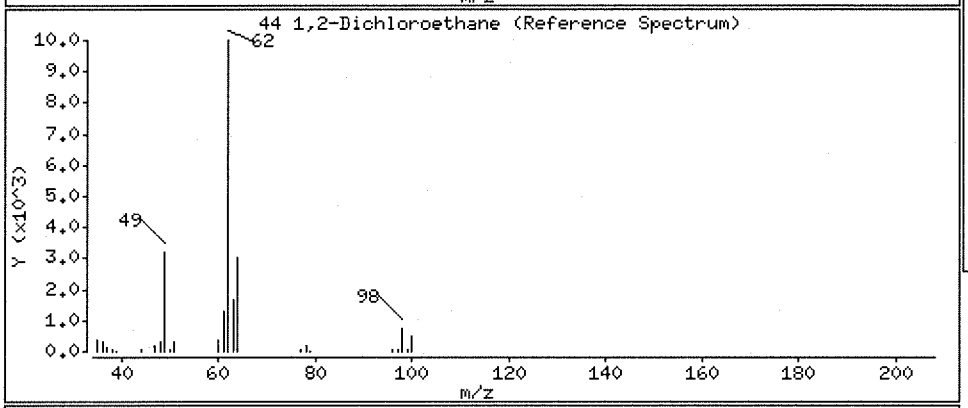
Column diameter: 0.32

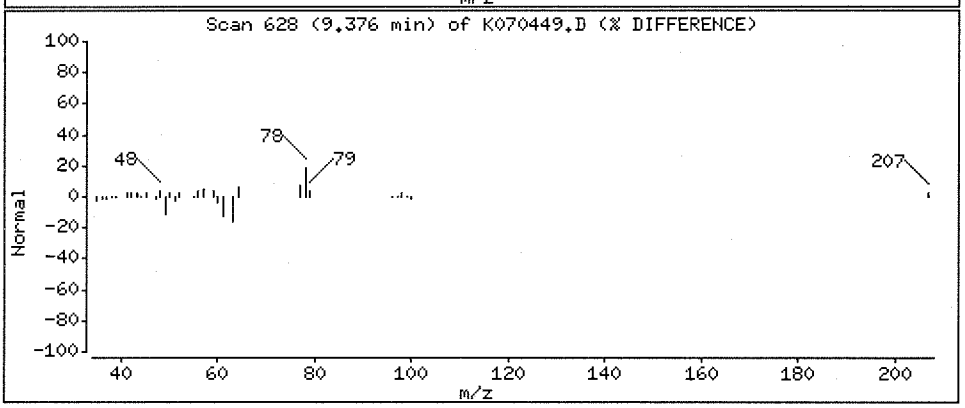
44 1,2-Dichloroethane

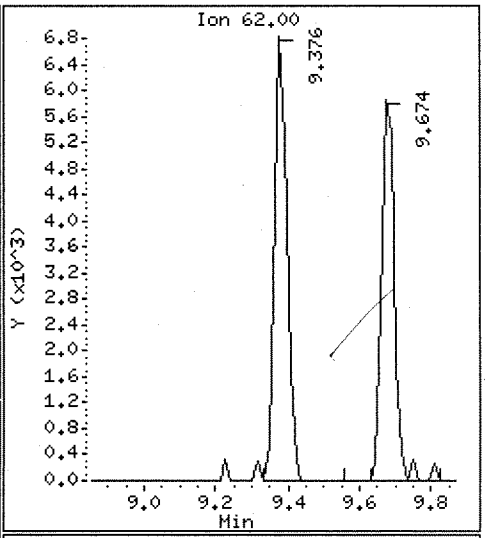
Concentration: 4.32 ug/L

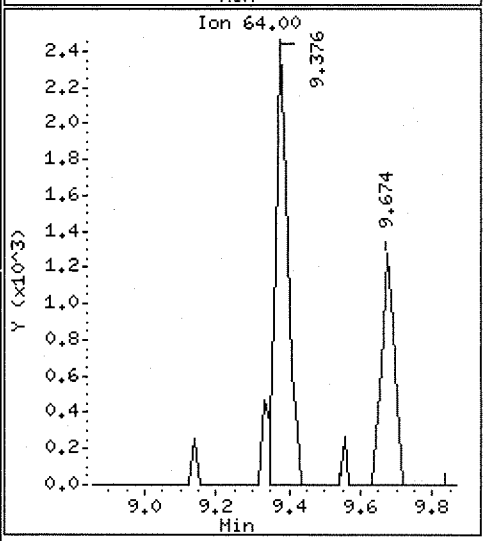












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

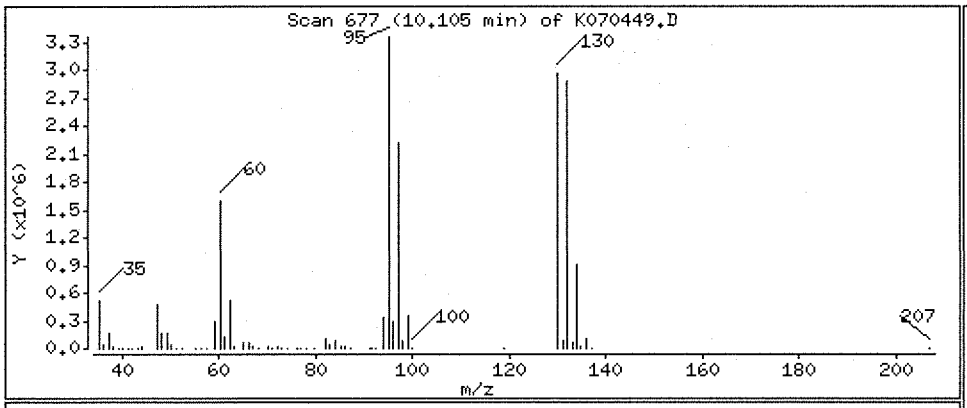
Client ID: BLD120-MW-1 Instrument: MSK.i

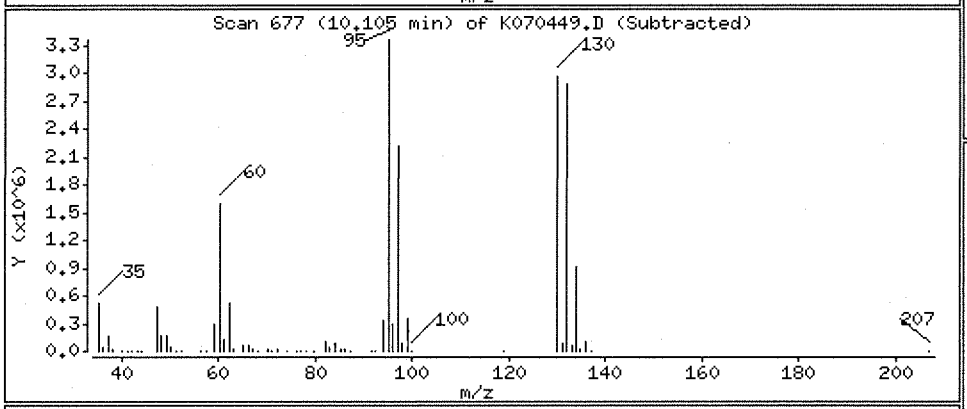
Sample Info: D0700056-001

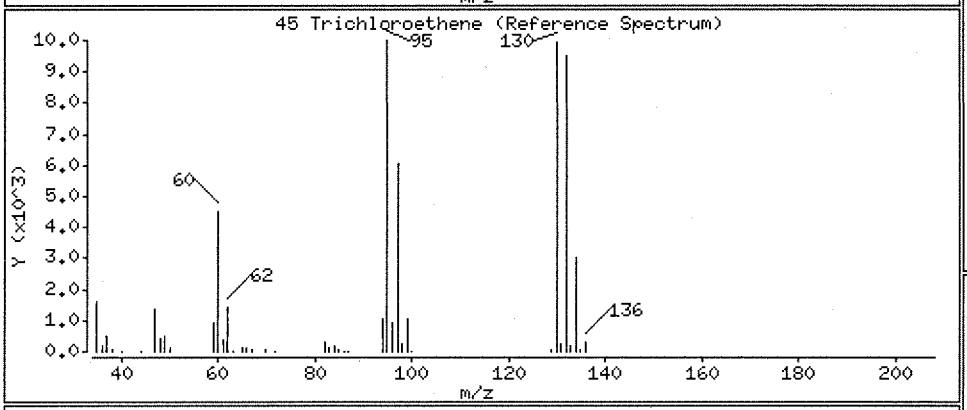
Purge Volume: 10.0 Operator: X

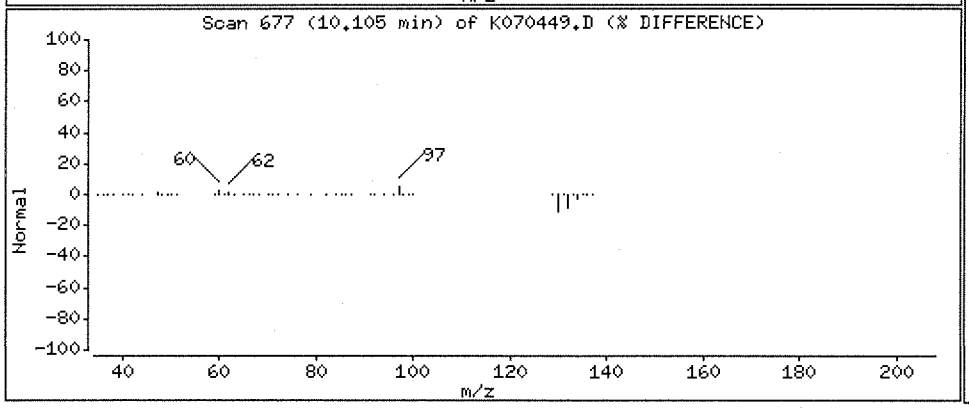
Column phase: DB-624 Column diameter: 0.32

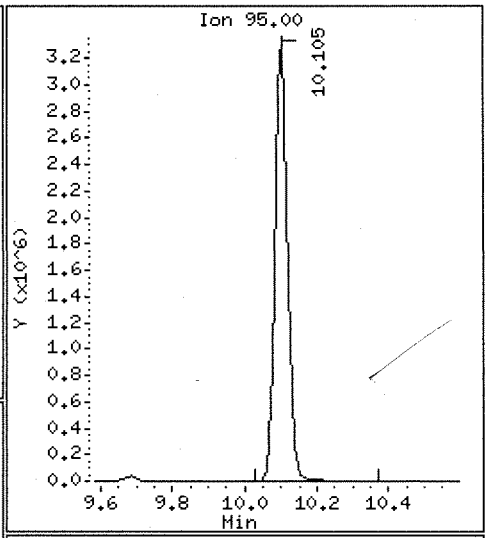
45 Trichloroethene Concentration: 2510 ug/L

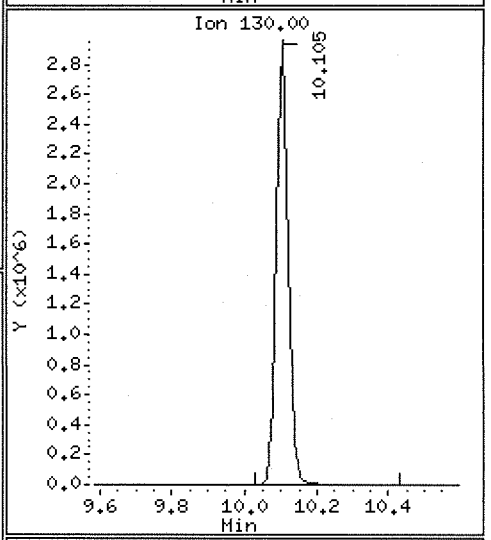


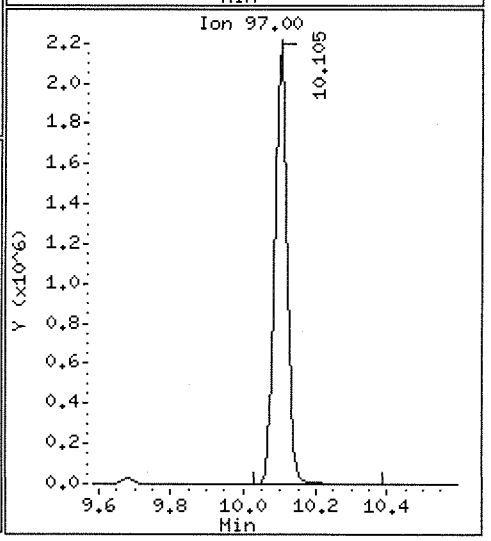












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

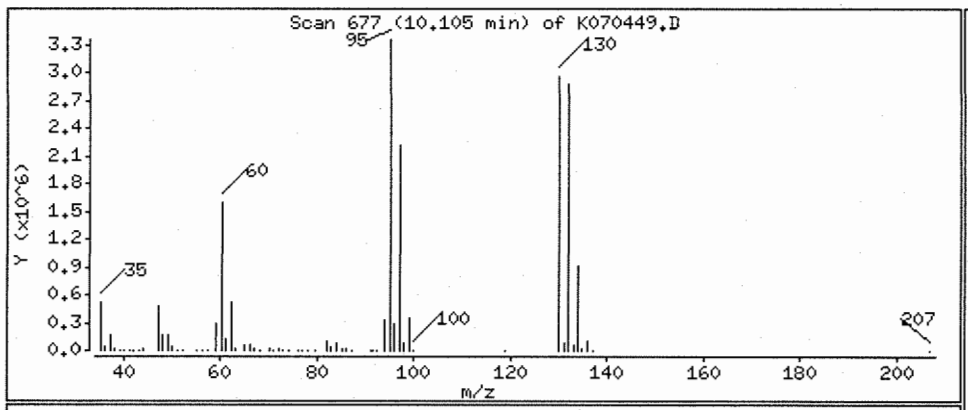
Client ID: BLD120-MW-1 Instrument: MSK.i

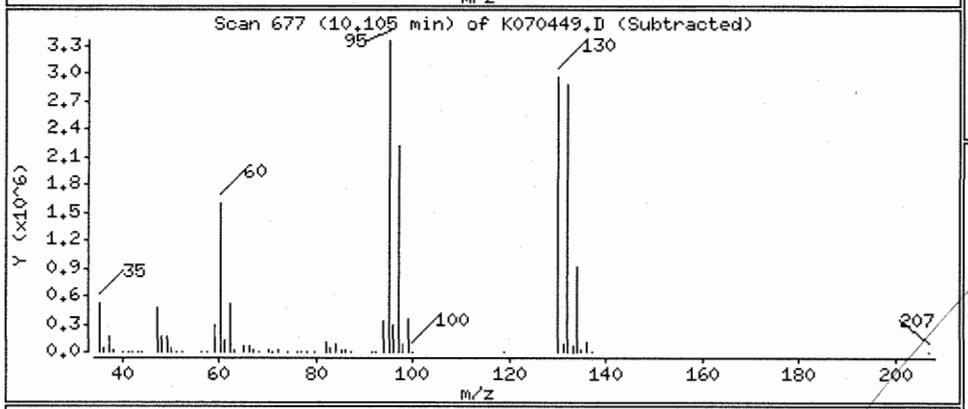
Sample Info: D0700056-001

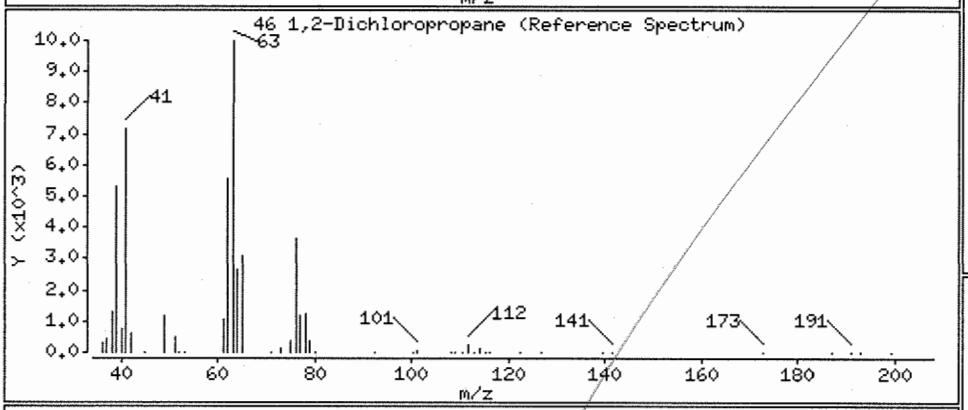
Purge Volume: 10.0 Operator: X

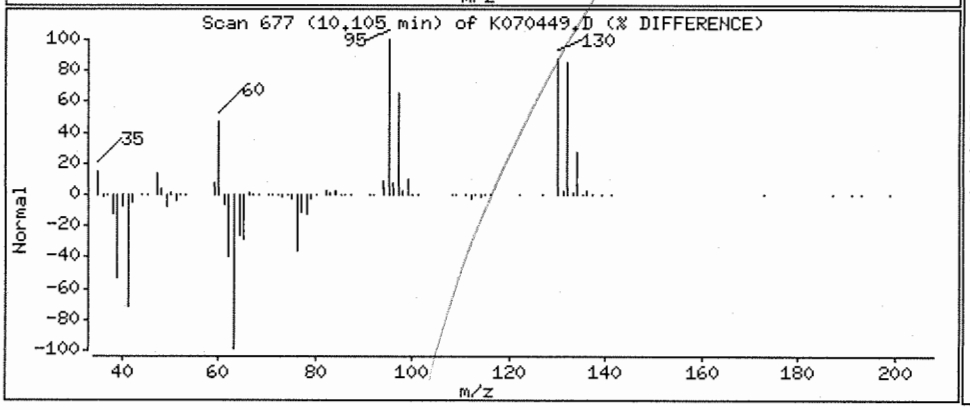
Column phase: DB-624 Column diameter: 0.32

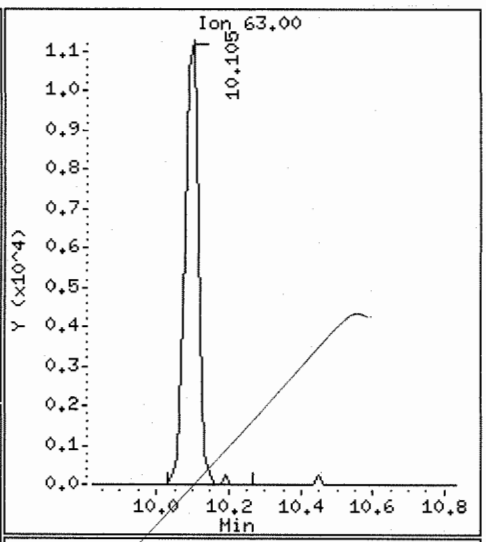
46 1,2-Dichloropropane Concentration: 8.30 ug/L

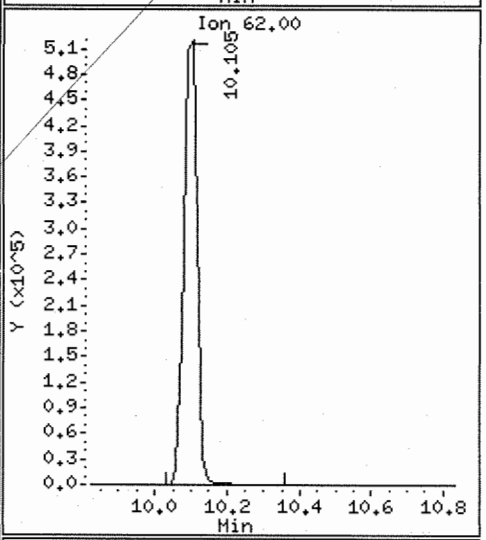


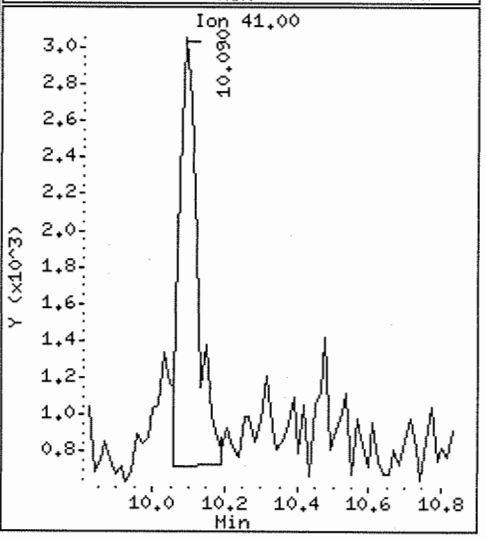












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

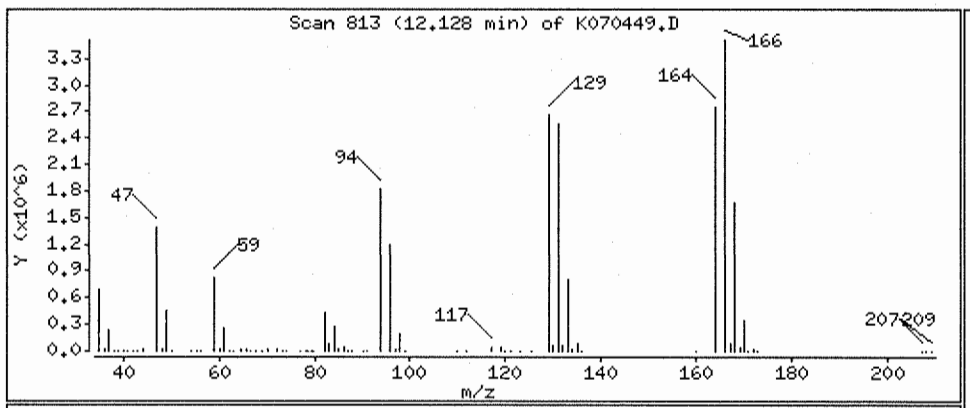
Client ID: BLD120-MW-1 Instrument: MSK.i

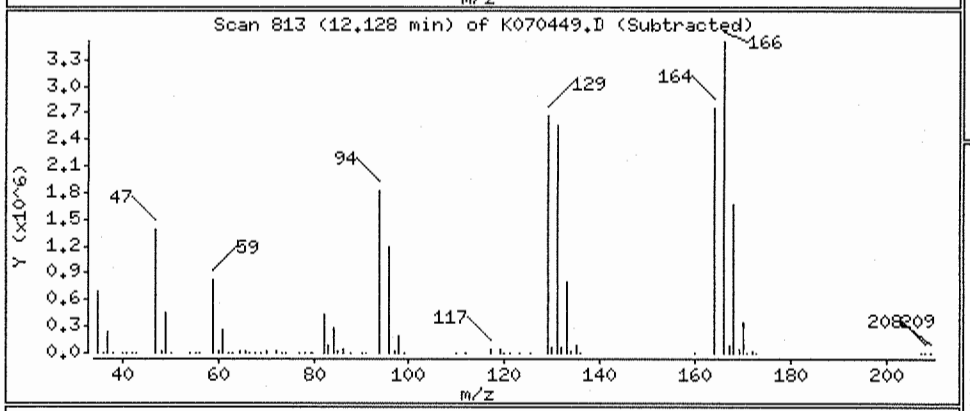
Sample Info: D0700056-001

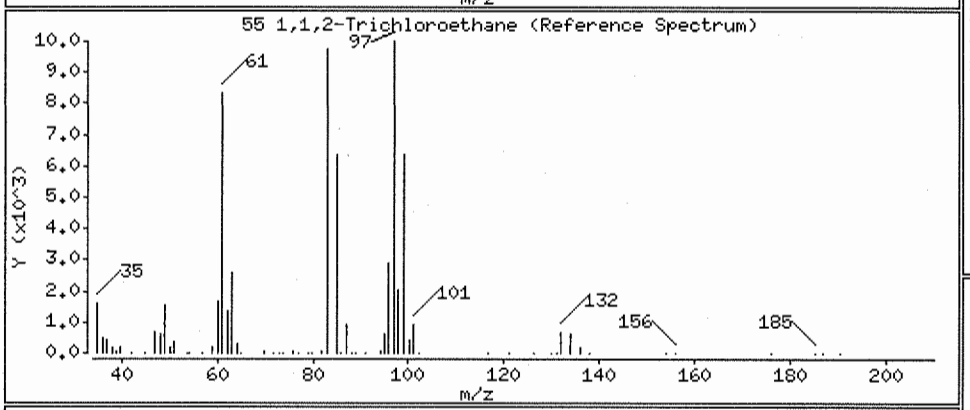
Purge Volume: 10.0 Operator: X

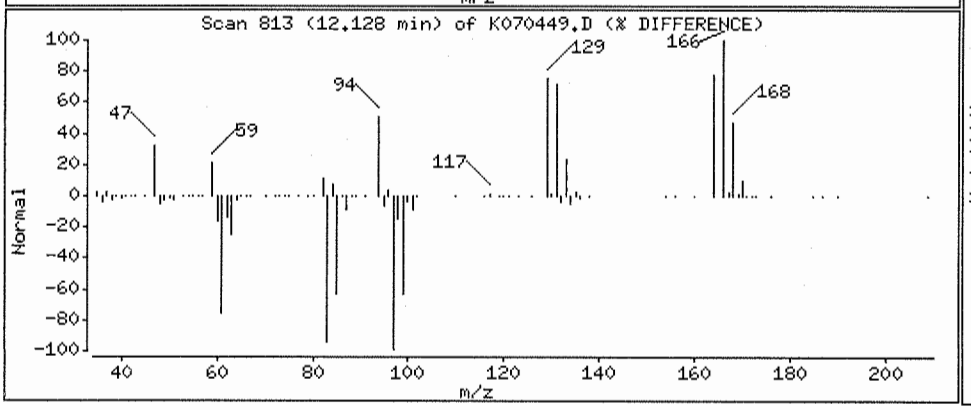
Column phase: DB-624 Column diameter: 0.32

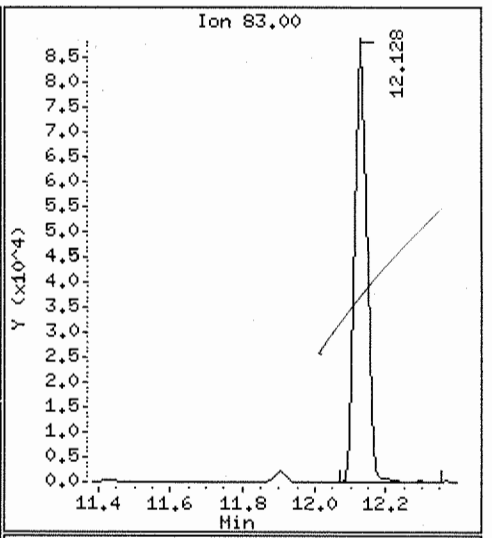
55 1,1,2-Trichloroethane Concentration: 110 ug/L

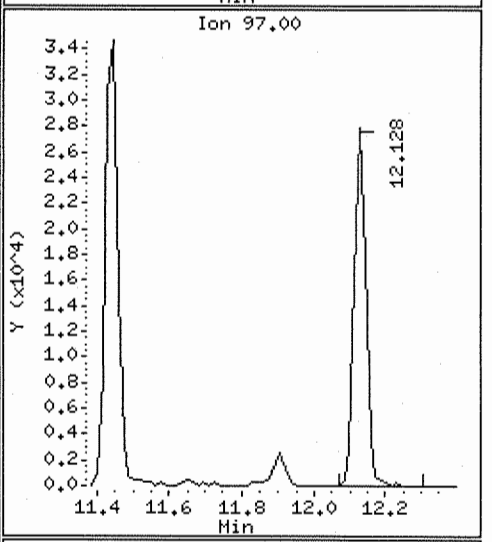


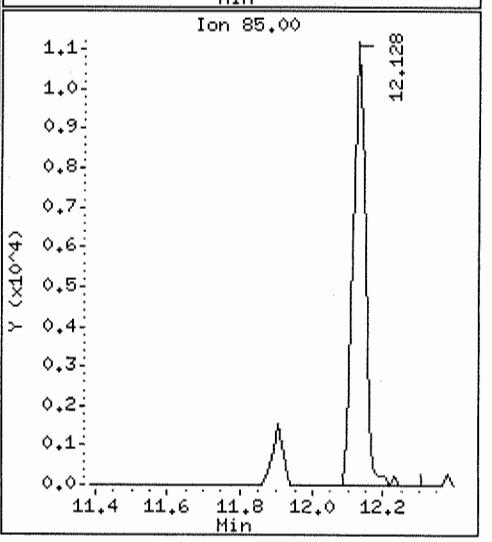












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070449.D

Date : 19-JAN-2007 07:09

Client ID: BLD120-MW-1

Instrument: MSK.i

Sample Info: D0700056-001

Purge Volume: 10.0

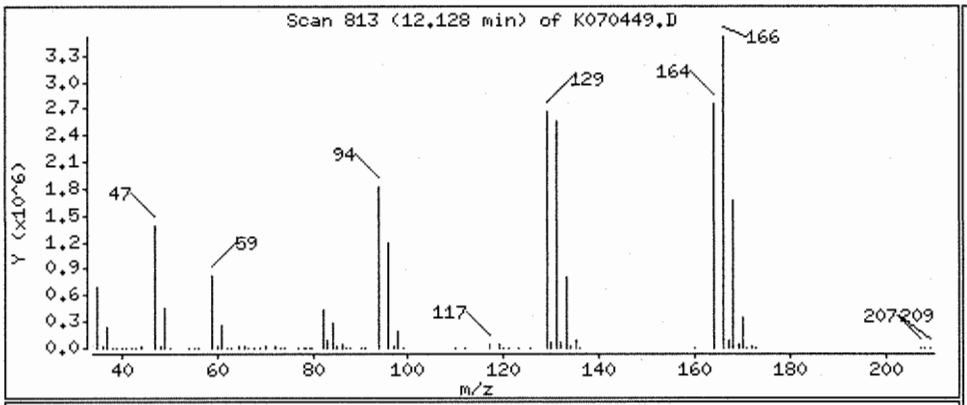
Operator: X

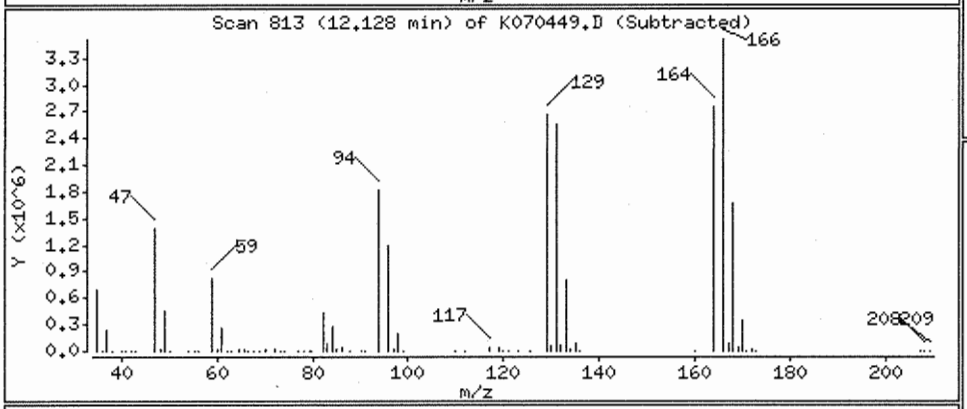
Column phase: DB-624

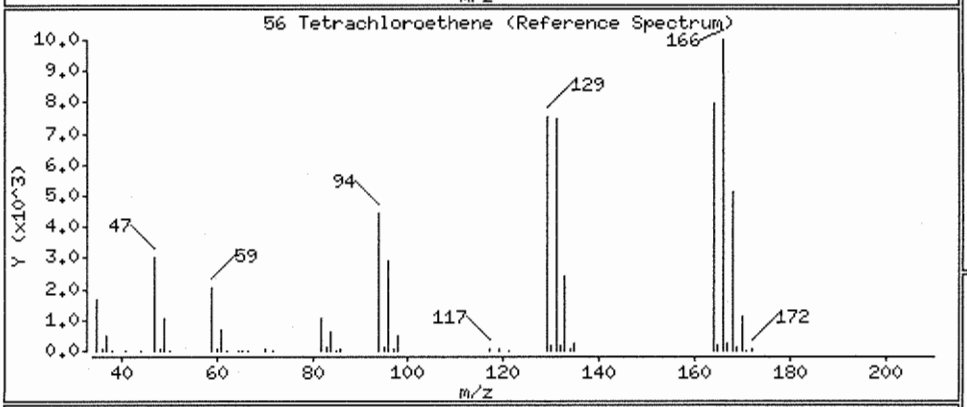
Column diameter: 0.32

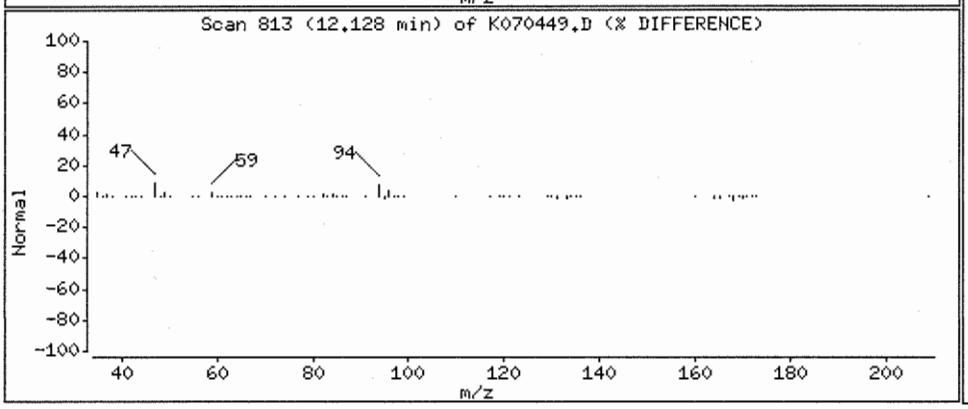
56 Tetrachloroethene

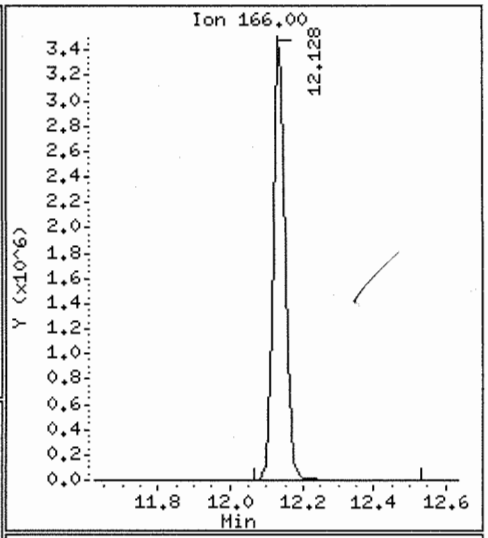
Concentration: 3180 ug/L

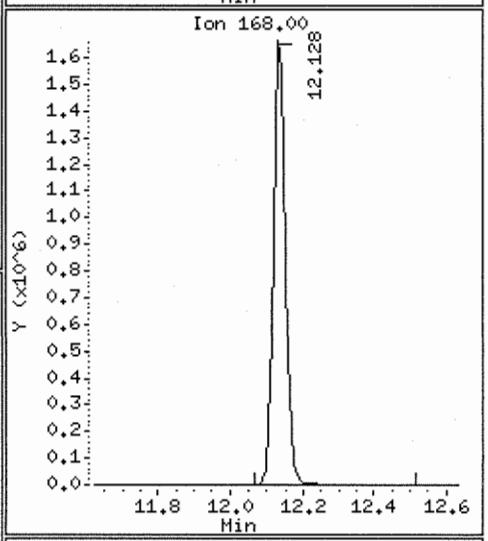


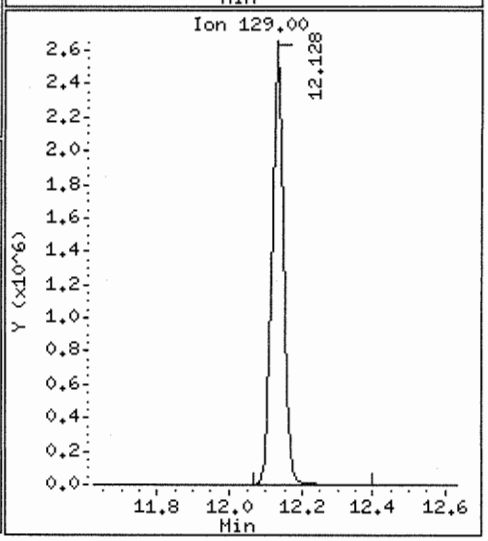












Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D
Lab Smp Id: D0700056-001DL Client Smp ID: BLD120-MW-1DL
Inj Date : 19-JAN-2007 07:36
Operator : X Inst ID: MSK.i
Smp Info : D0700056-001DL
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 4
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.683	9.673	(1.000)	982429	10.0000	
* 2 Chlorobenzene-d5	117	13.030	13.020	(1.000)	654177	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	15.603	15.593	(1.000)	262611	10.0000	
$ 4 Dibromofluoromethane	113	8.880	8.870	(0.917)	334196	10.5549	10.6
$ 5 1,2-Dichloroethane-d4	65	9.296	9.287	(0.960)	333803	11.4596	11.4
$ 6 Toluene-d8	98	11.423	11.414	(0.877)	857402	10.1025	10.1
$ 7 Bromofluorobenzene	174	14.294	14.284	(0.916)	238502	10.0377	10.0
8 Dichlorodifluoromethane	85	Compound Not Detected.					
10 Chloromethane	50	Compound Not Detected.					
11 Vinyl chloride	62	Compound Not Detected.					
12 Bromomethane	94	4.730	4.646	(0.489)	1493	0.69776	69.8(a)
13 Chloroethane	64	4.834	4.810	(0.499)	3204	0.25025	25.0(aQ)
14 Trichlorofluoromethane	101	Compound Not Detected.					
15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene	96	6.068	6.044	(0.627)	104834	4.41367	441
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene chloride	84	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	7.095	7.085	(0.733)	32801	1.11519	112
27 tert-Butylmethylether	73	Compound Not Detected.					
28 1,1-Dichloroethane	63	7.630	7.621	(0.788)	31366	0.56276	56.3
30 Vinyl acetate	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.344	8.335	(0.862)	996239	30.8543	3080
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.686	8.677	(0.897)	10025	0.19142	19.1(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.683	9.361	(1.000)	13236	0.36064	36.1(a)
45	Trichloroethene	95	10.099	10.090	(1.043)	826811	27.0063	2700
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.137	11.890	(0.931)	23057	1.04359	104(Q)
56	Tetrachloroethene	166	12.137	12.128	(0.931)	832590	34.0659	3410
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

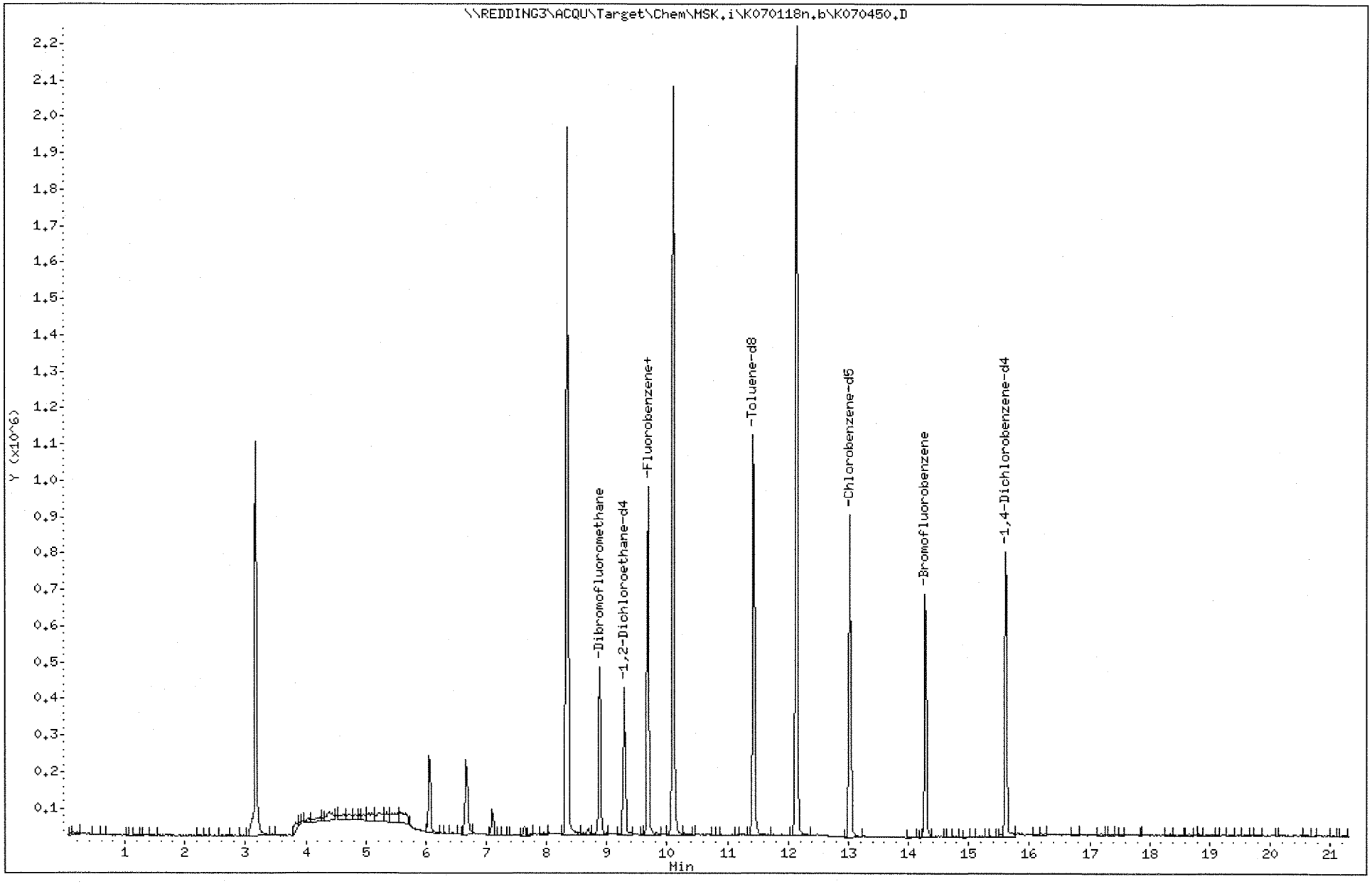
Sample Info: D0700056-001DL

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

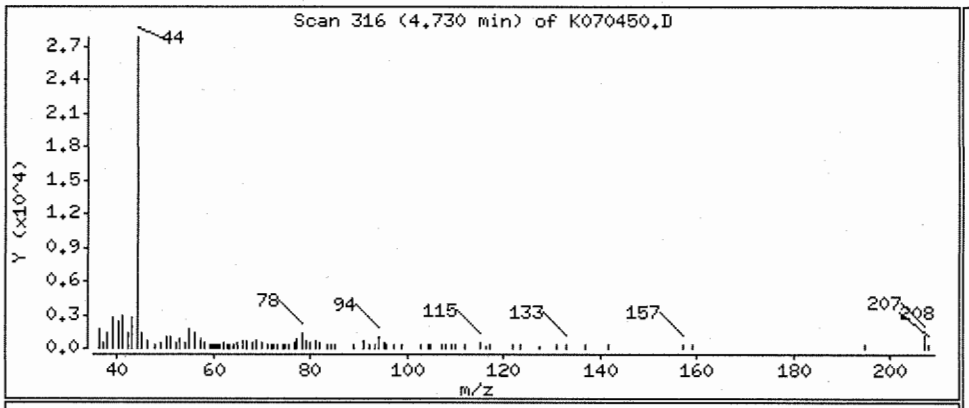
Operator: X

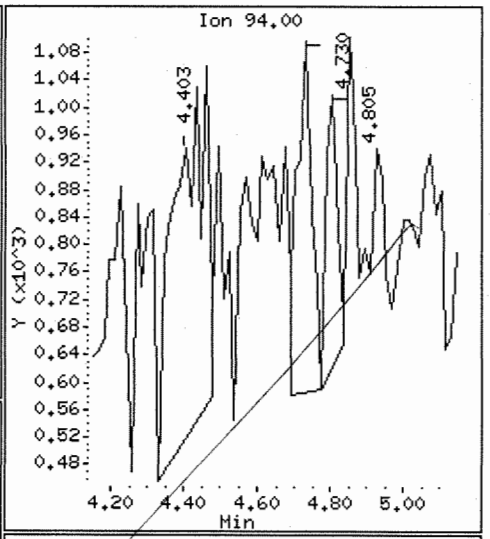
Column phase: DB-624

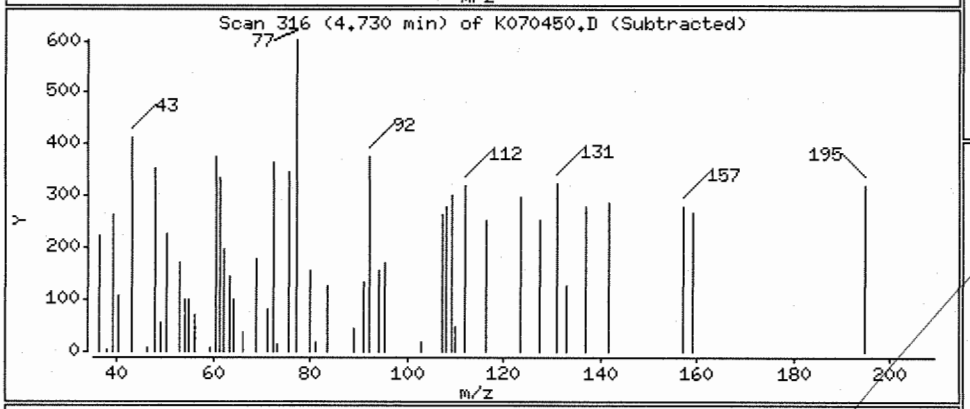
Column diameter: 0.32

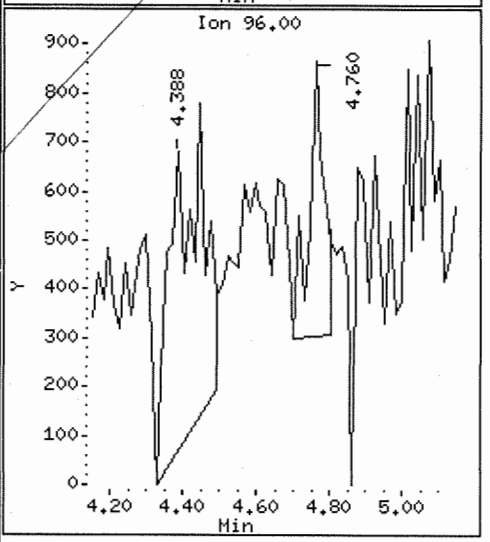
12 Bromomethane

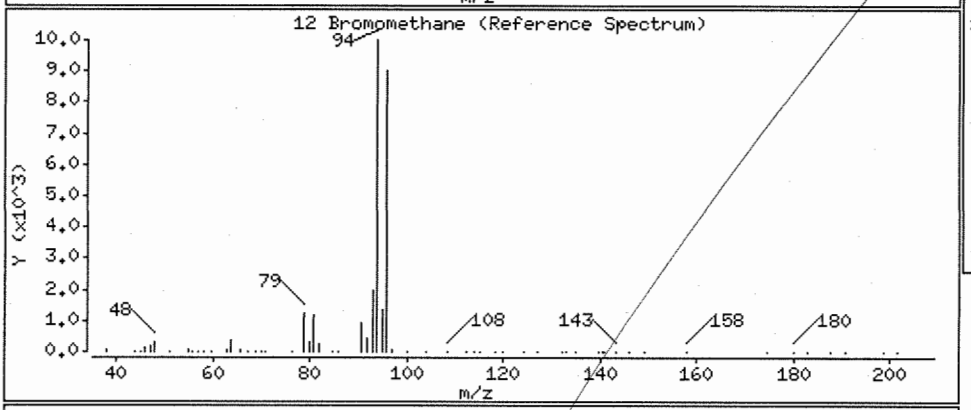
Concentration: 69.8 ug/L

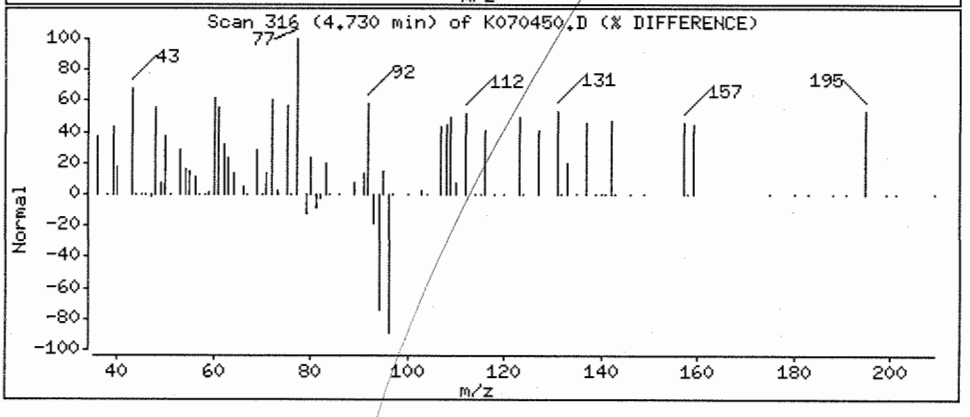












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

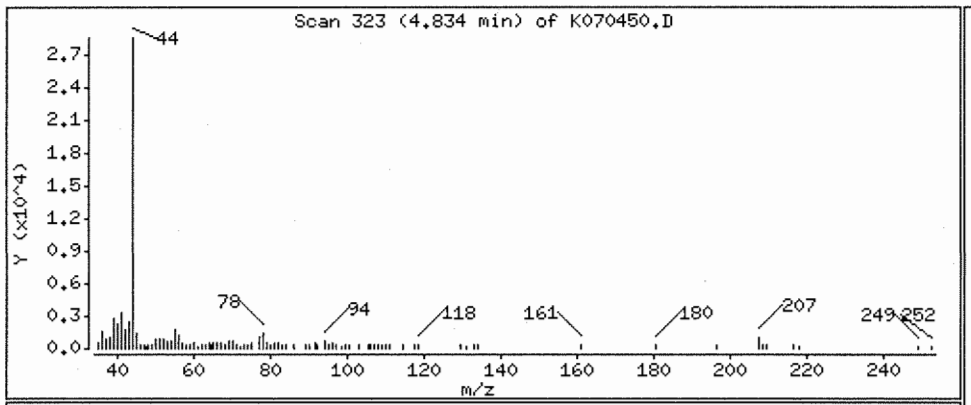
Operator: X

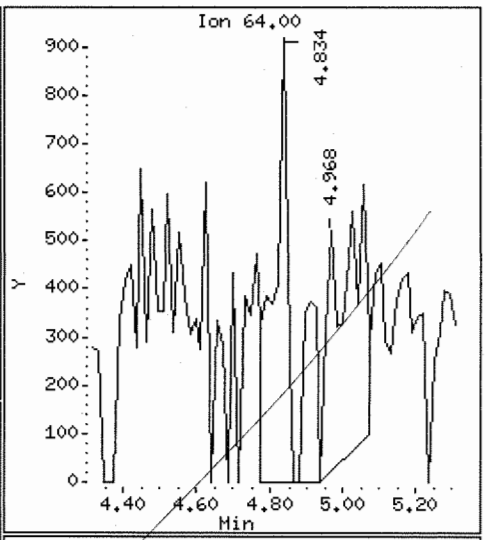
Column phase: DB-624

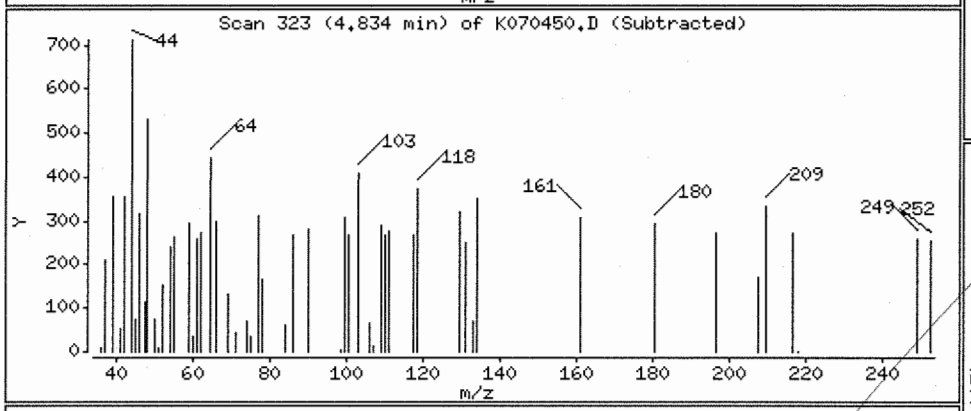
Column diameter: 0.32

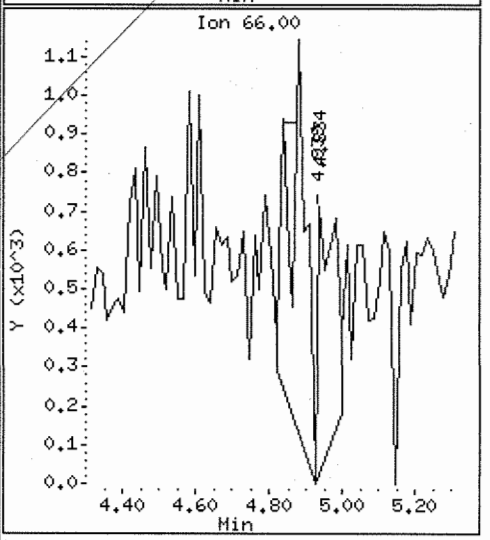
13 Chloroethane

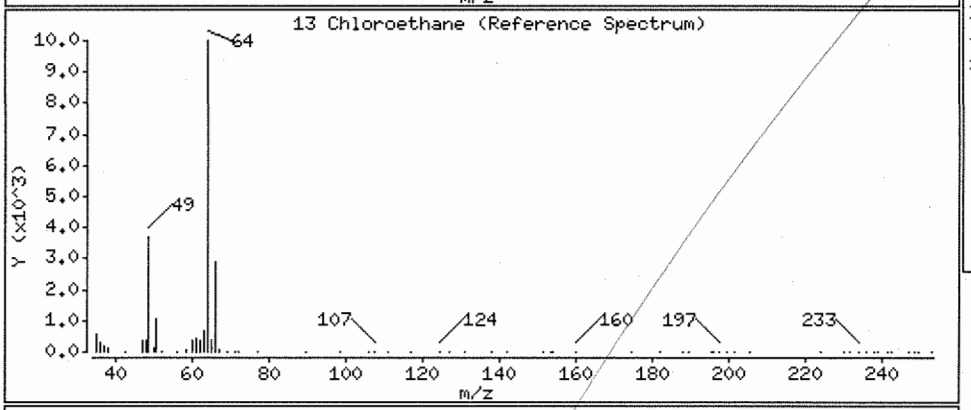
Concentration: 25.0 ug/L

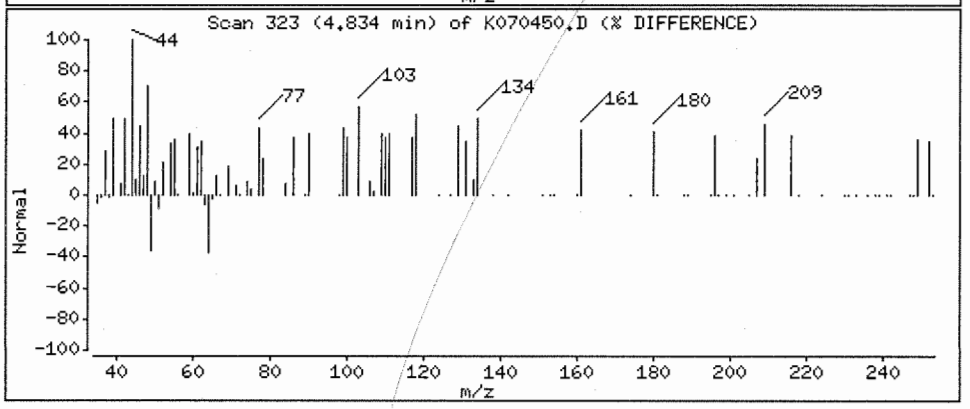












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

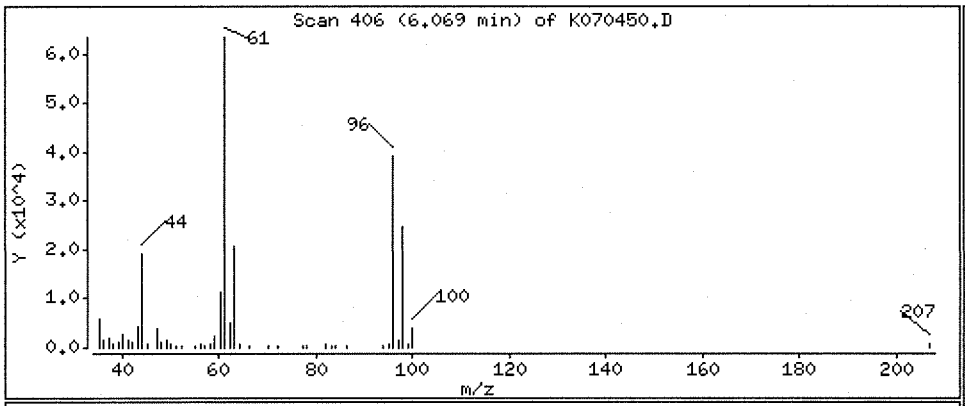
Operator: X

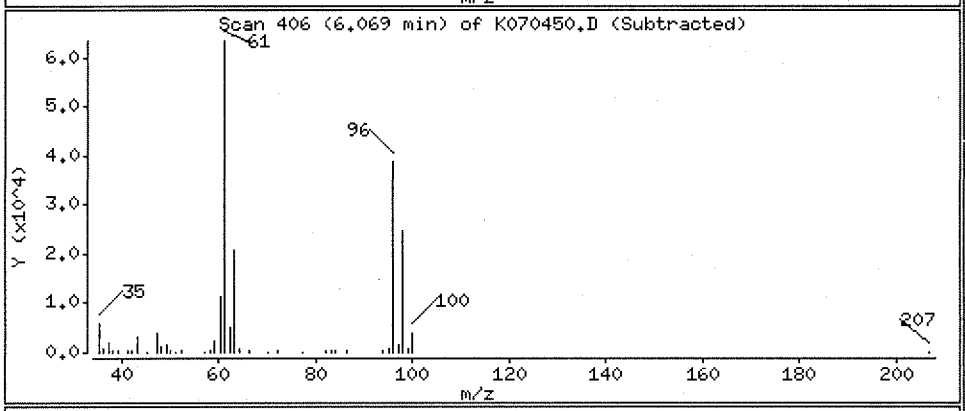
Column phase: DB-624

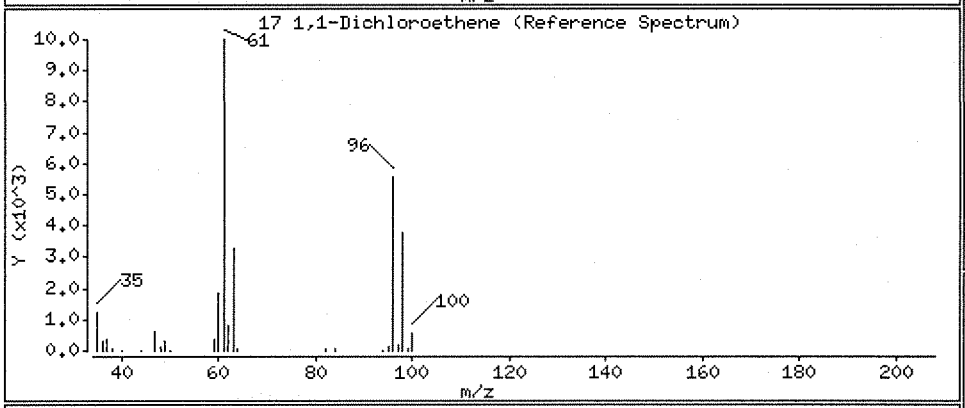
Column diameter: 0.32

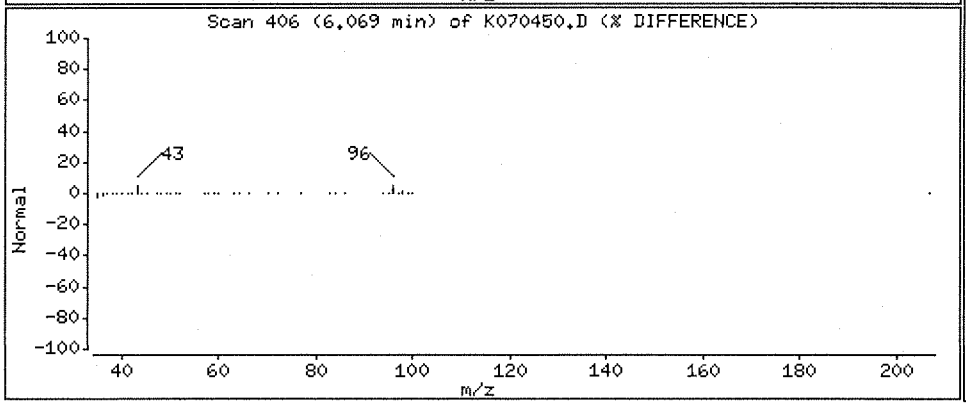
17 1,1-Dichloroethene

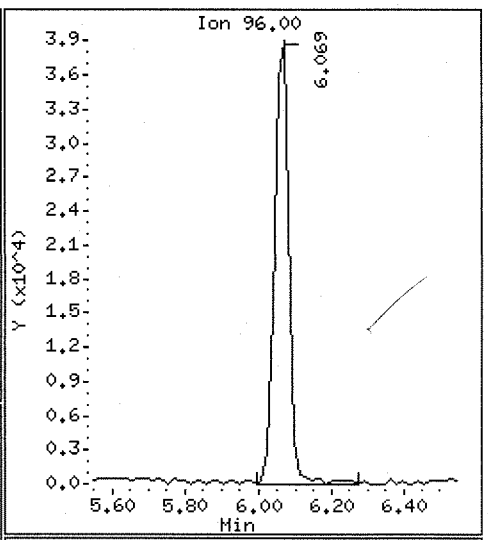
Concentration: 441 ug/L

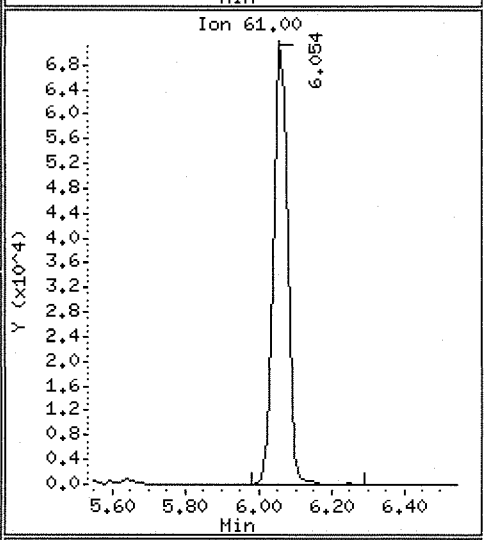


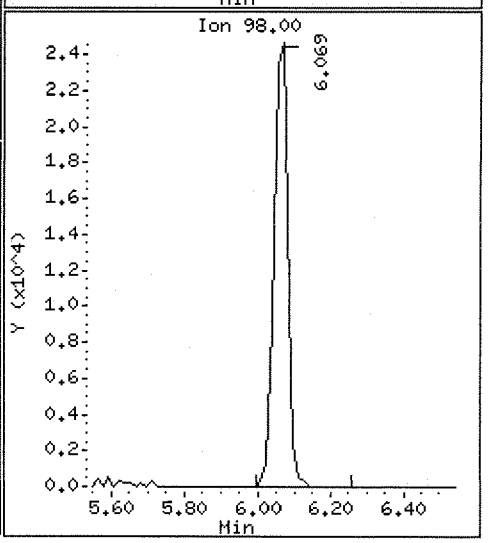












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

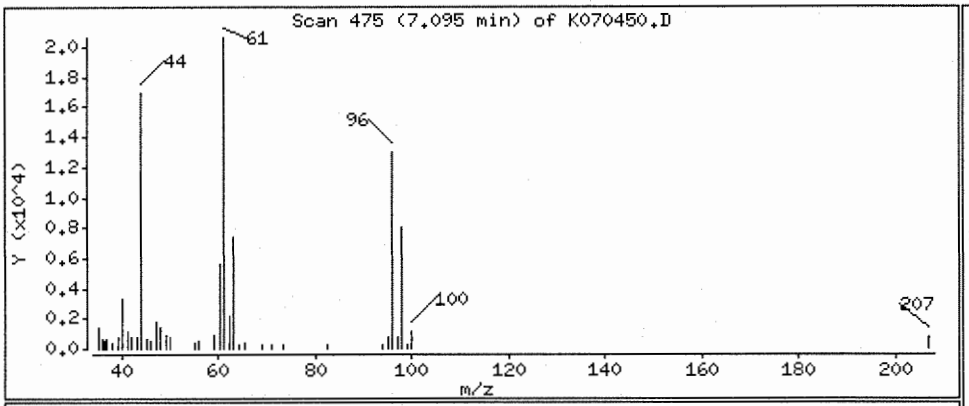
Operator: X

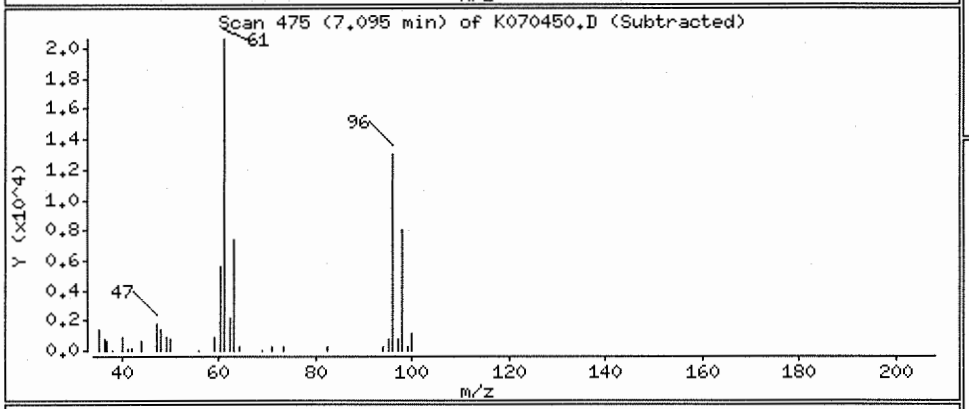
Column phase: DB-624

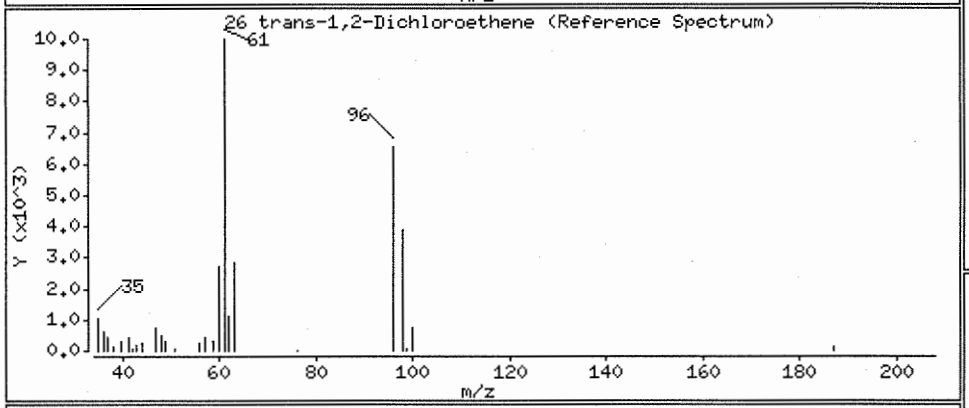
Column diameter: 0.32

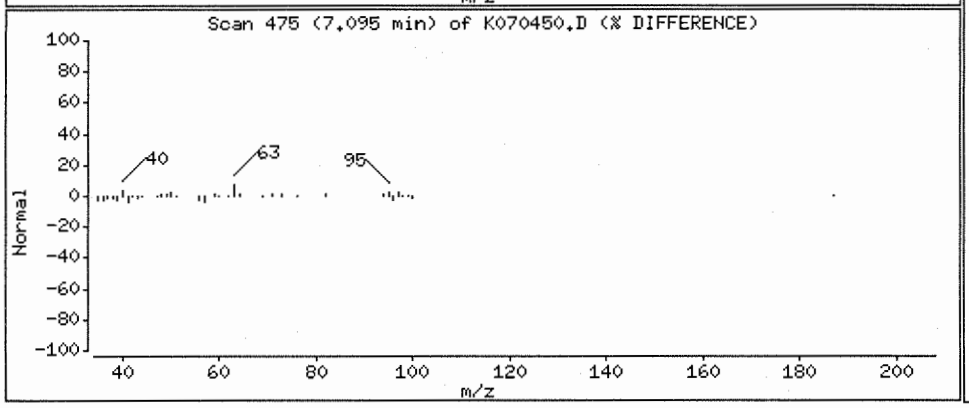
26 trans-1,2-Dichloroethene

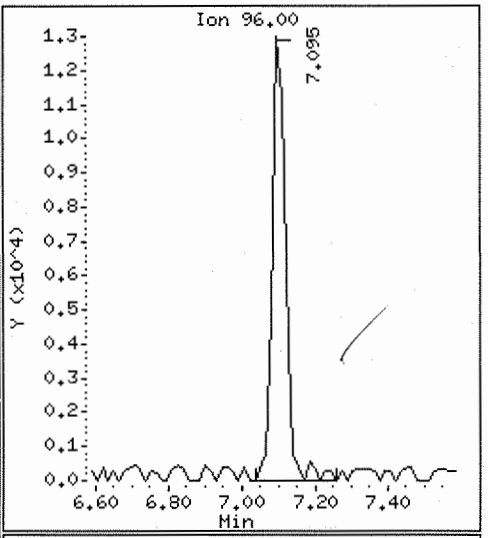
Concentration: 112 ug/L

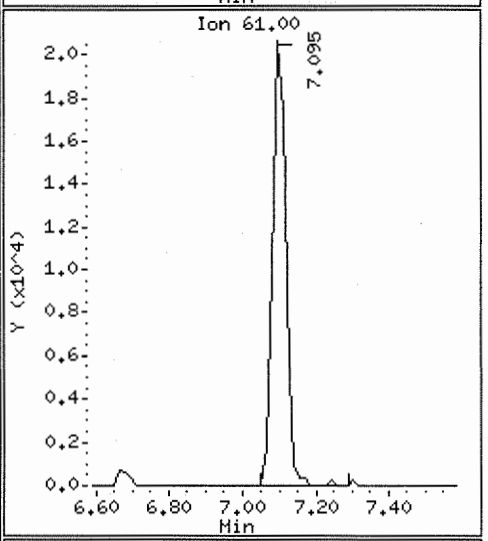


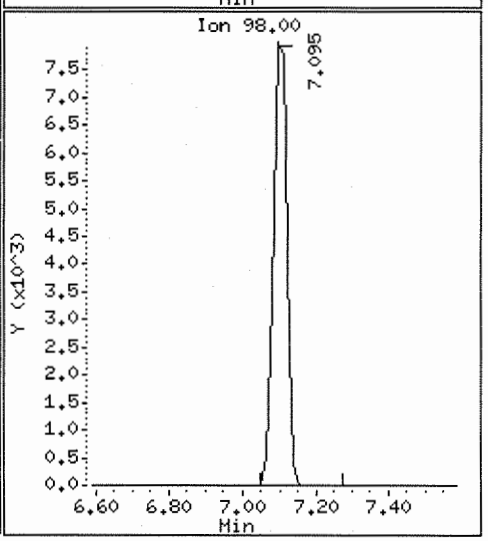












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

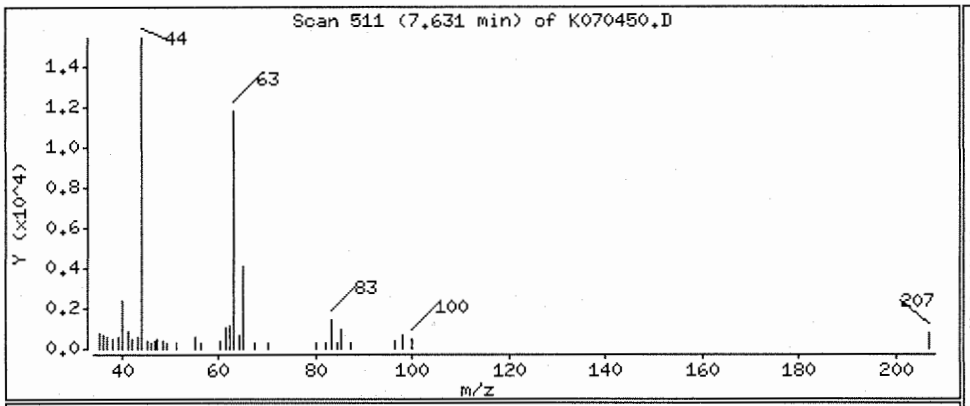
Operator: X

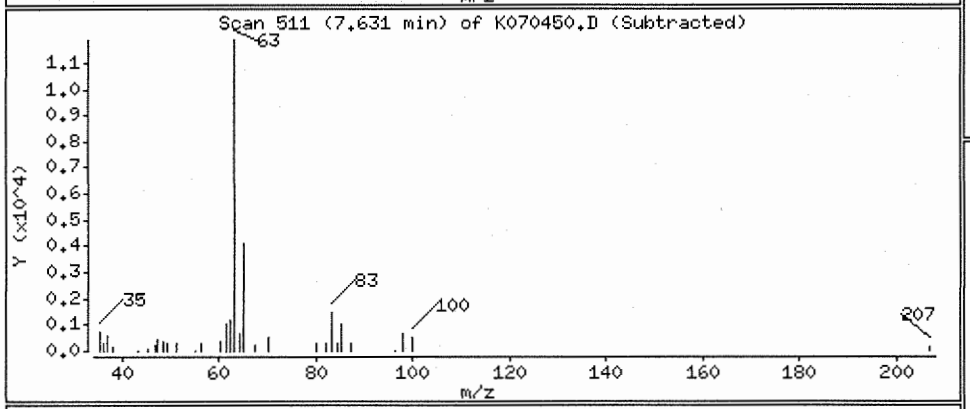
Column phase: DB-624

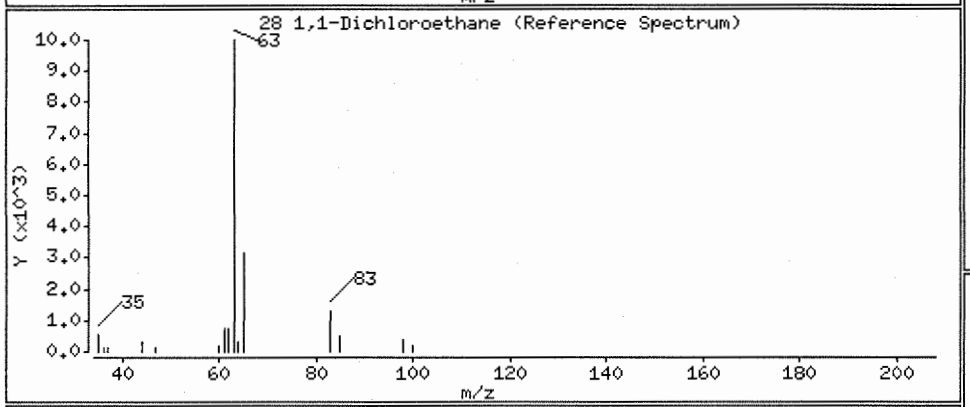
Column diameter: 0.32

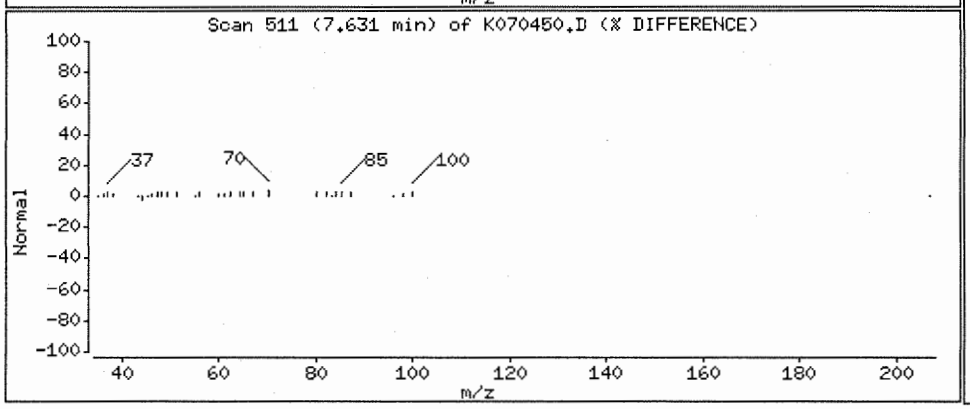
28 1,1-Dichloroethane

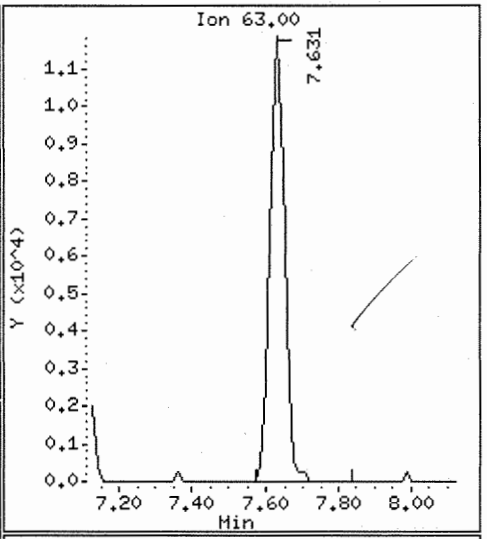
Concentration: 56.3 ug/L

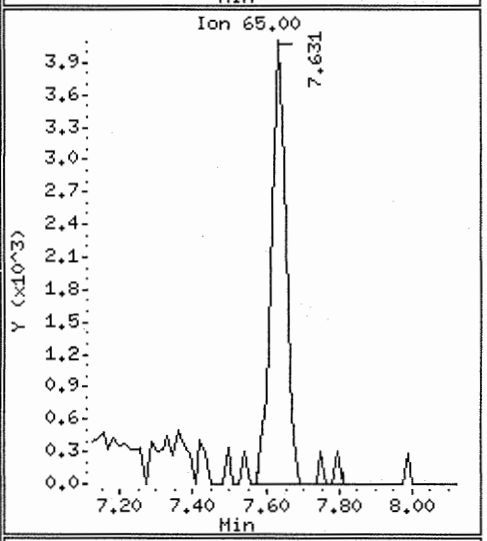


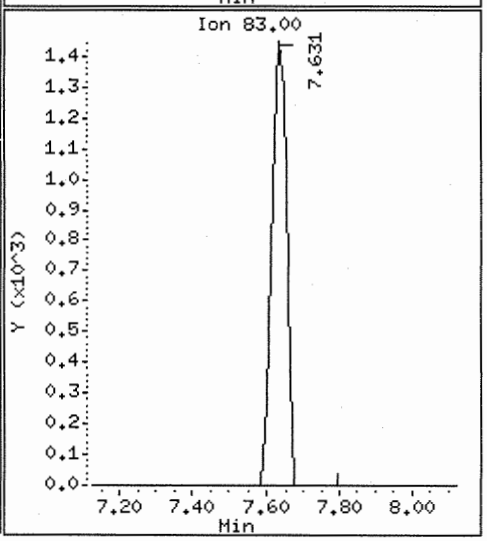












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

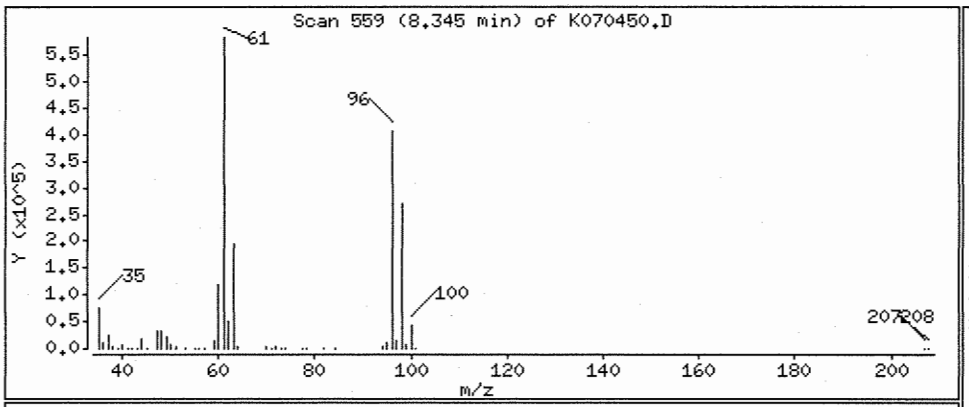
Operator: X

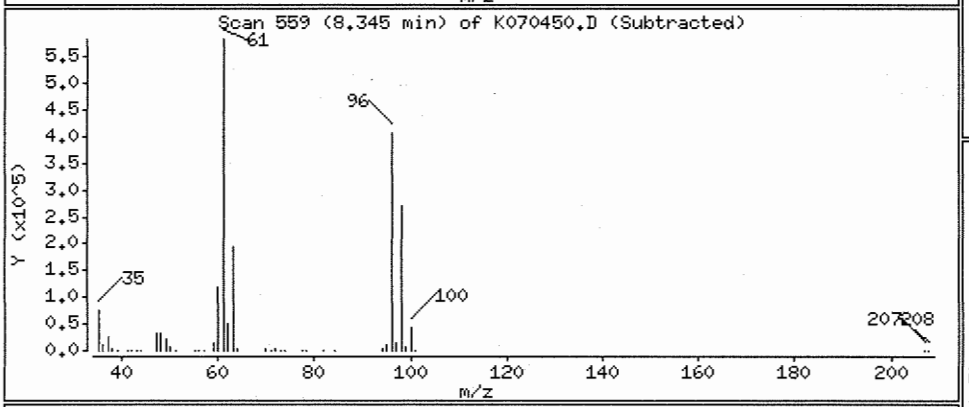
Column phase: DB-624

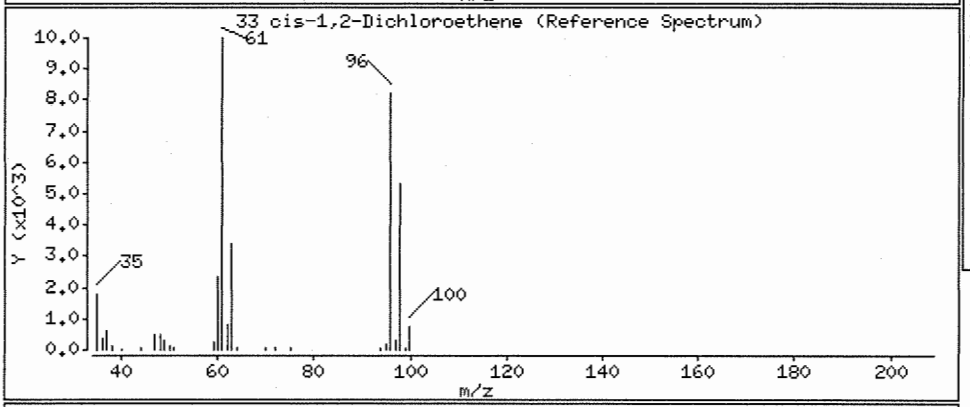
Column diameter: 0.32

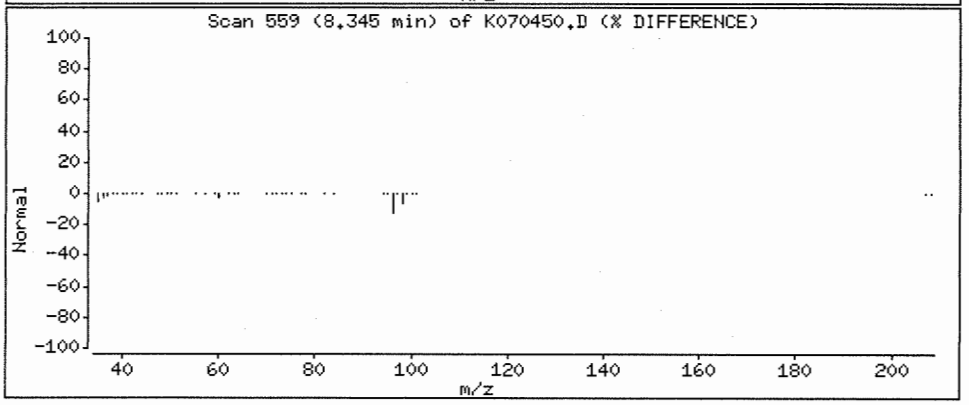
33 cis-1,2-Dichloroethene

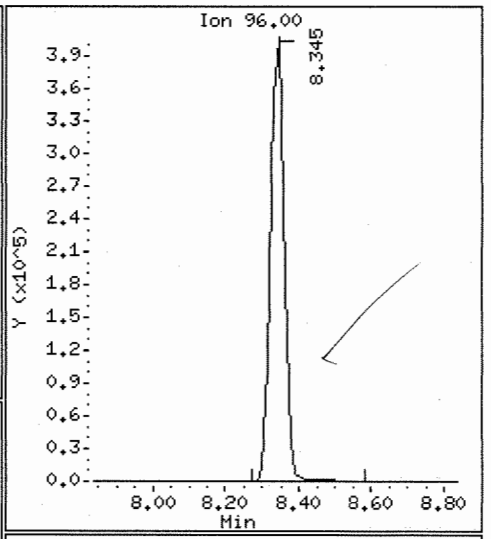
Concentration: 3080 ug/L

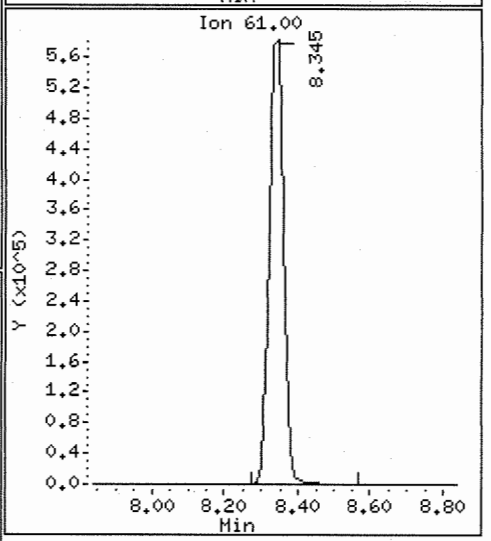












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

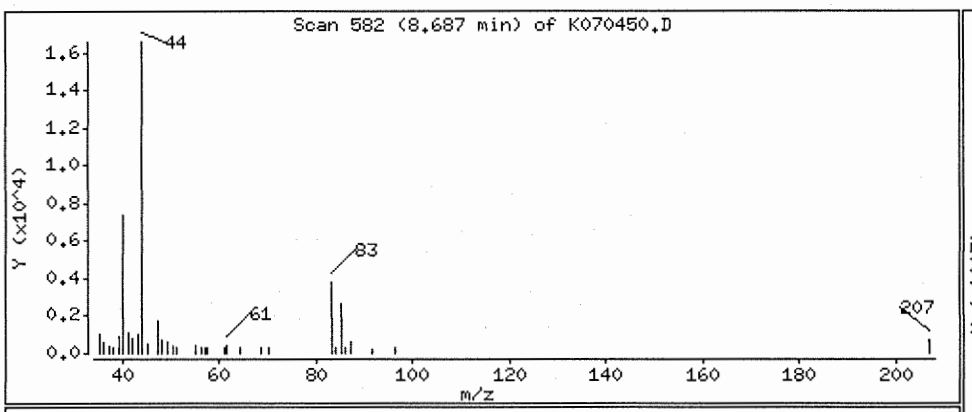
Operator: X

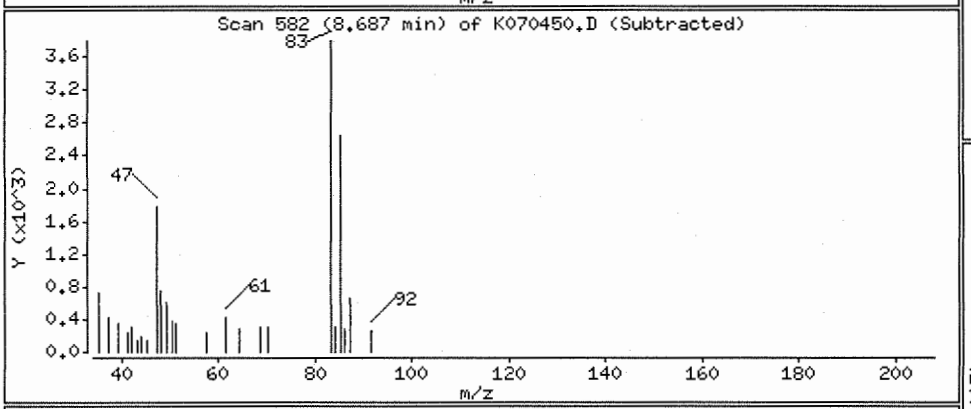
Column phase: DB-624

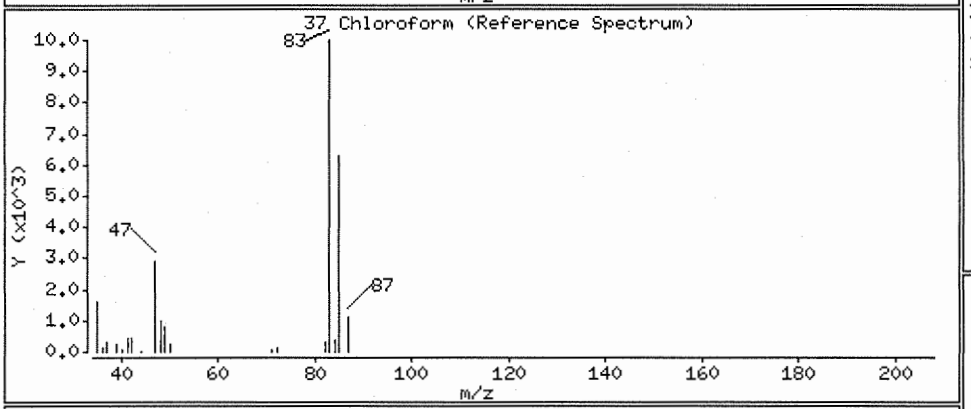
Column diameter: 0.32

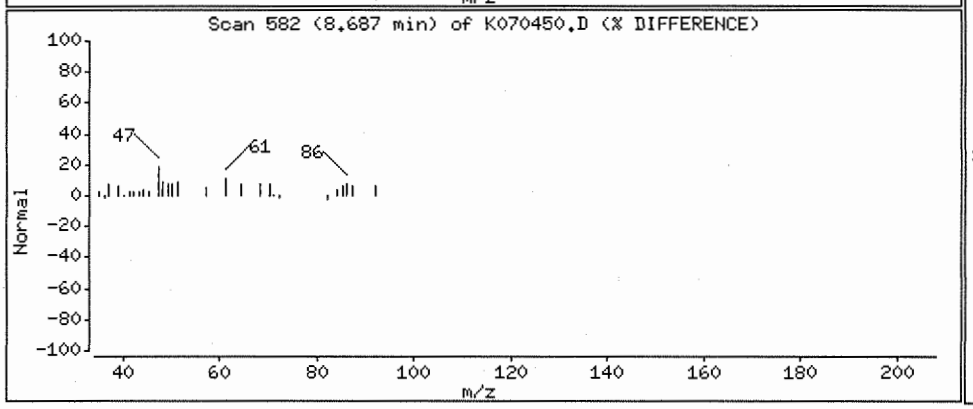
37 Chloroform

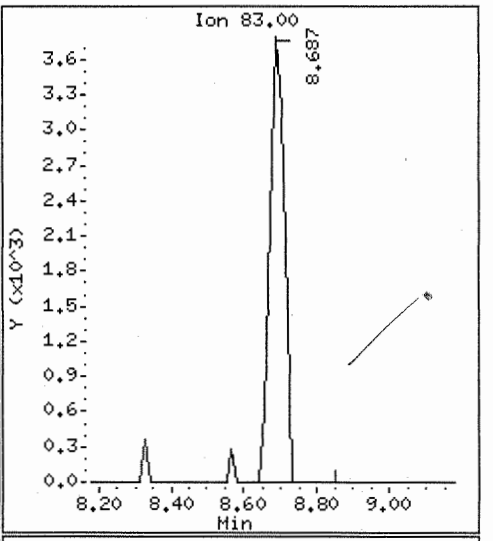
Concentration: 19.1 ug/L

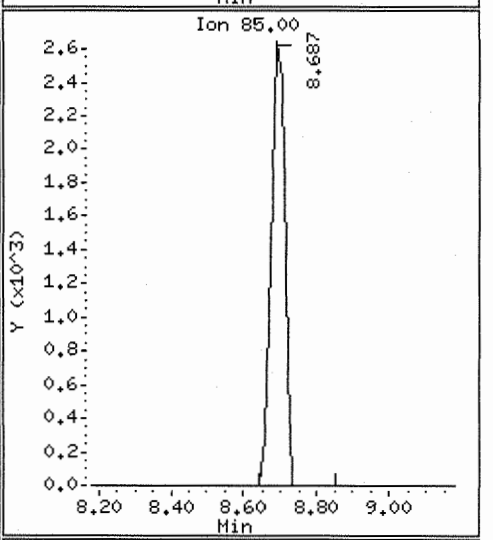


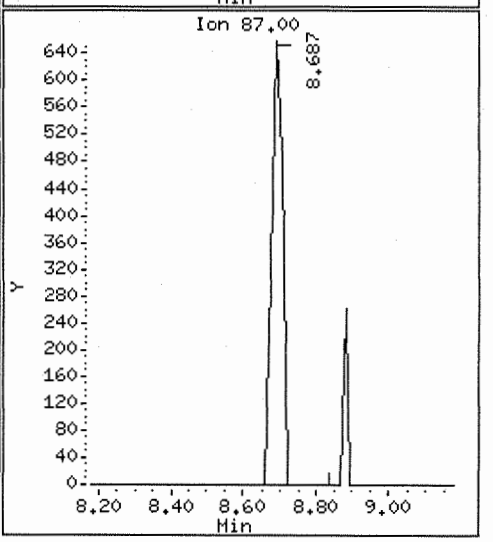












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

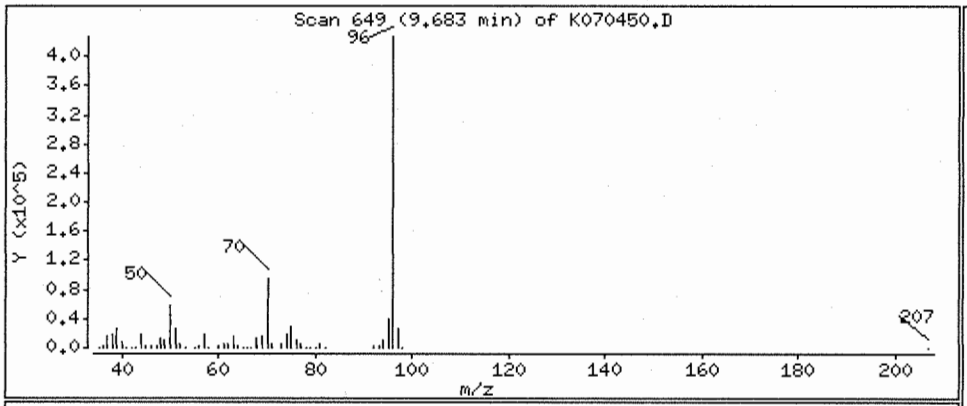
Operator: X

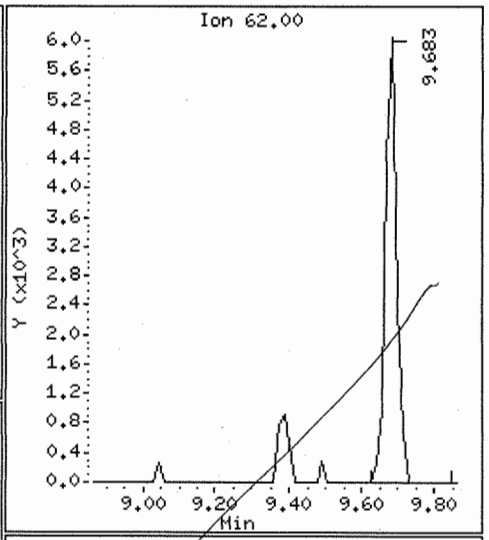
Column phase: DB-624

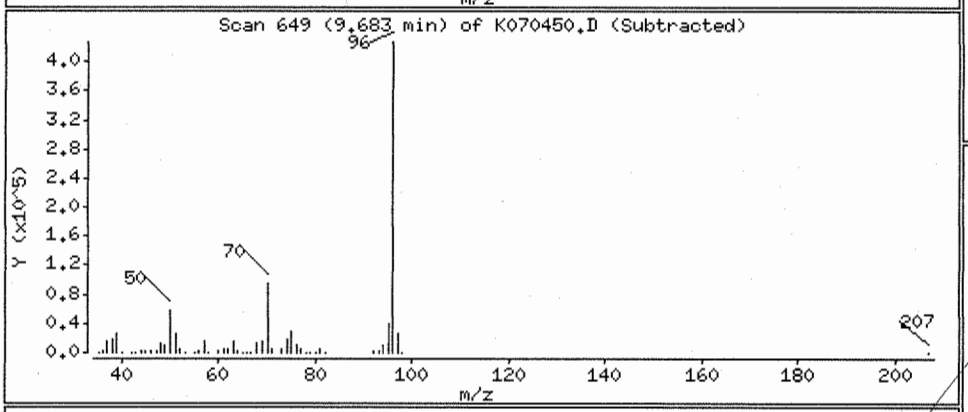
Column diameter: 0.32

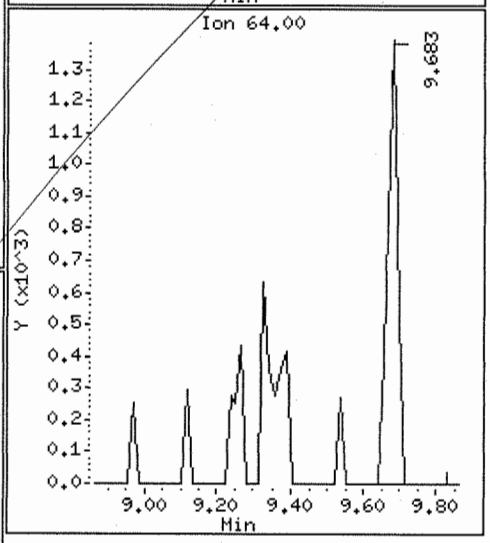
44 1,2-Dichloroethane

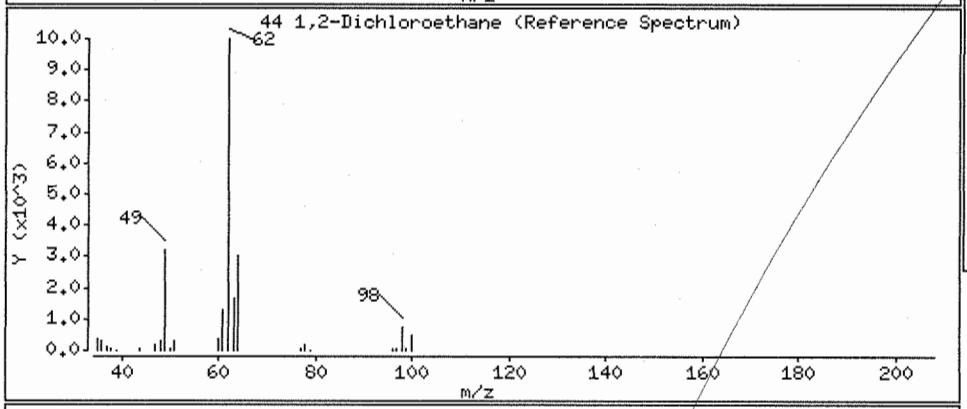
Concentration: 36.1 ug/L

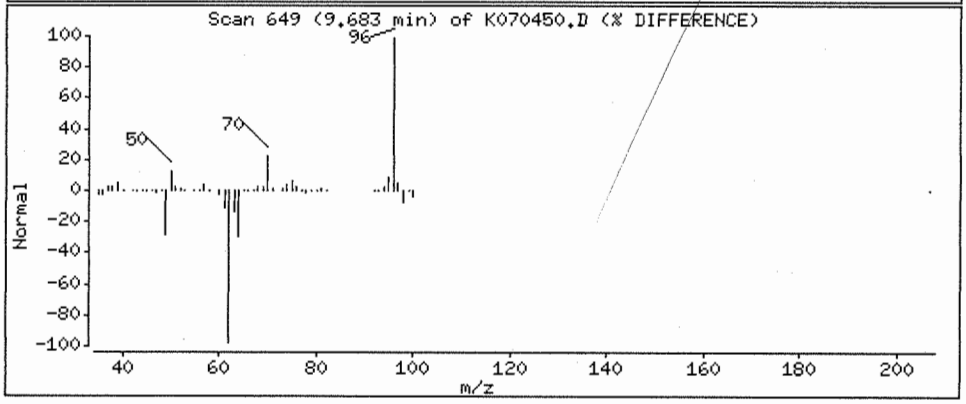












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

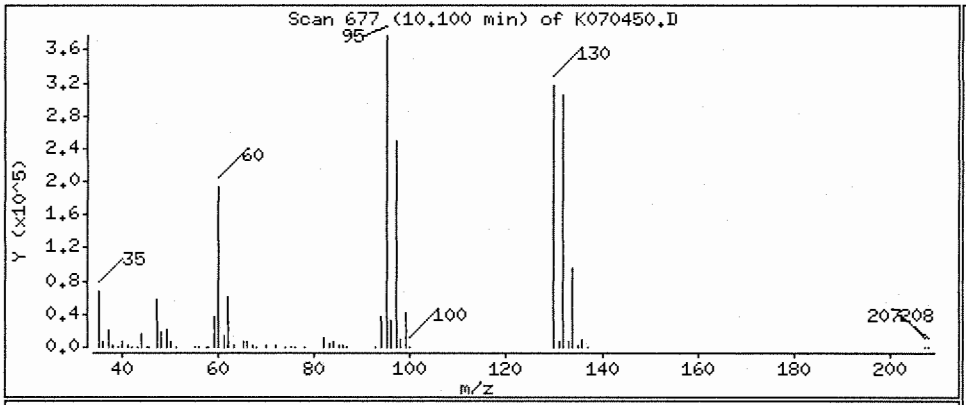
Operator: X

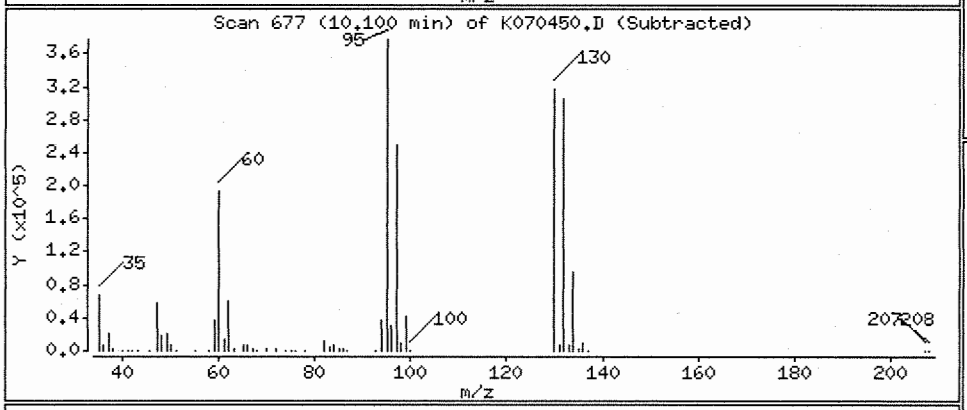
Column phase: DB-624

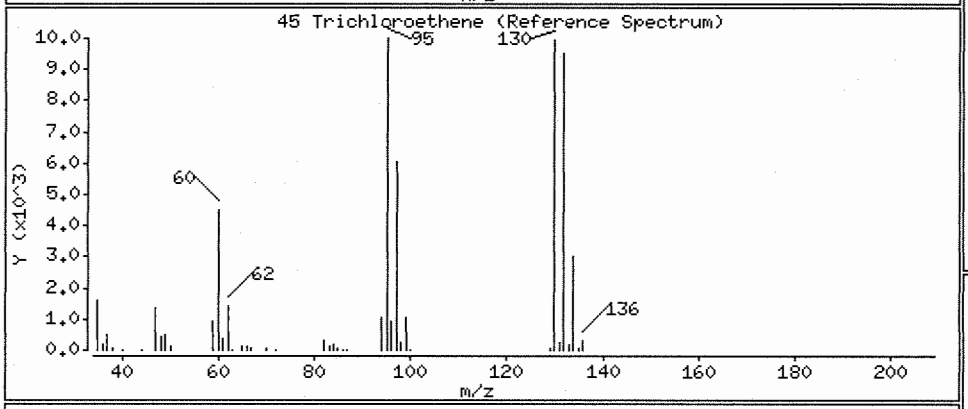
Column diameter: 0.32

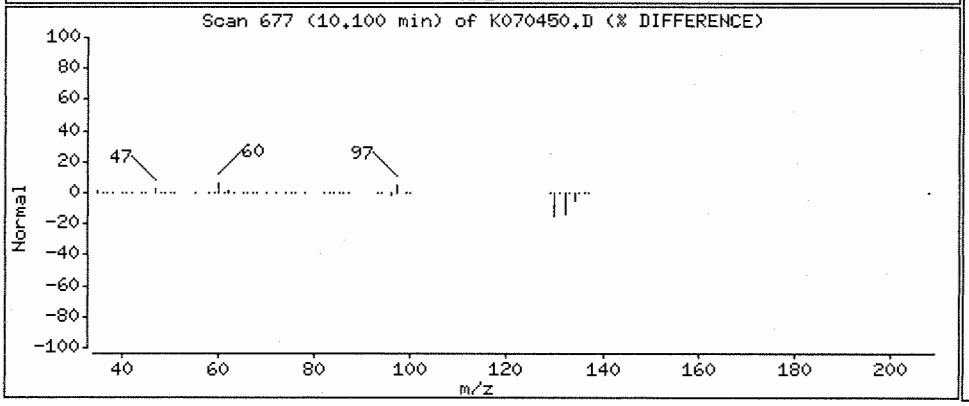
45 Trichloroethene

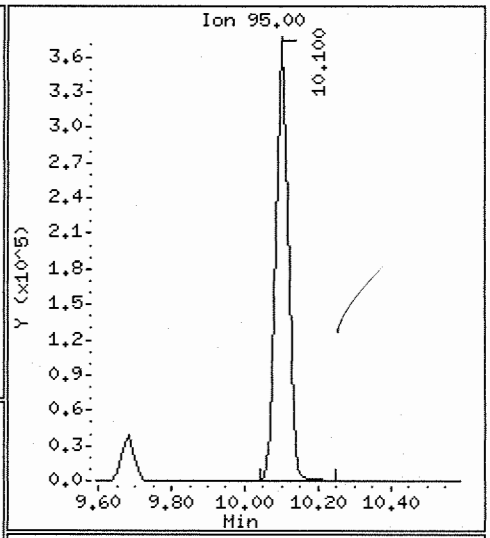
Concentration: 2700 ug/L

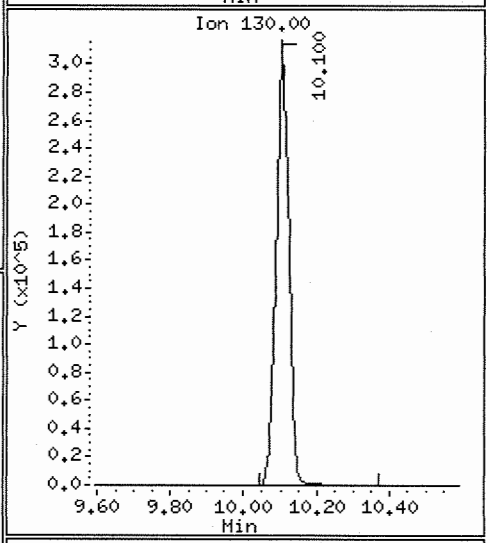


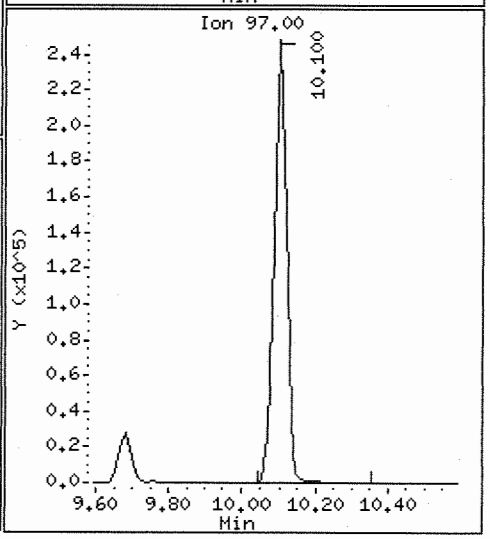












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

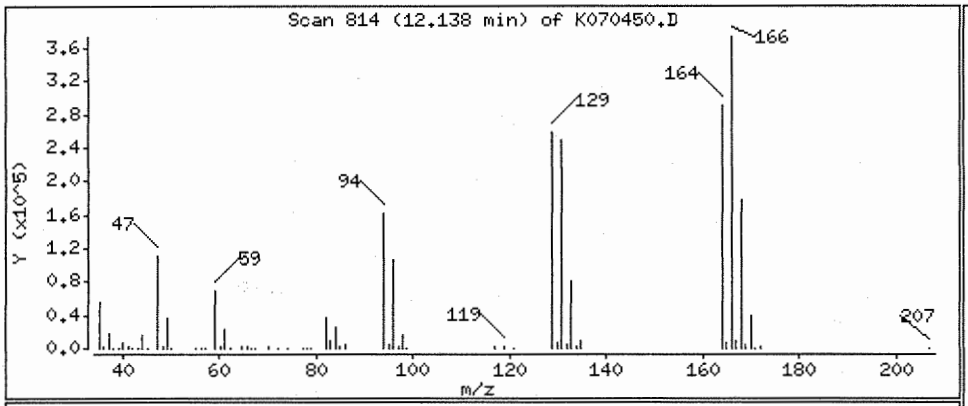
Operator: X

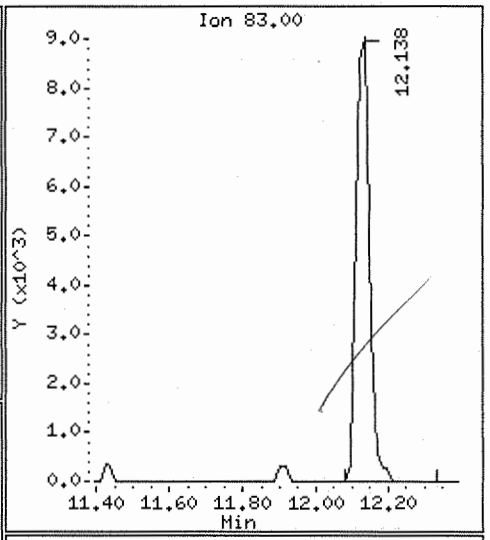
Column phase: DB-624

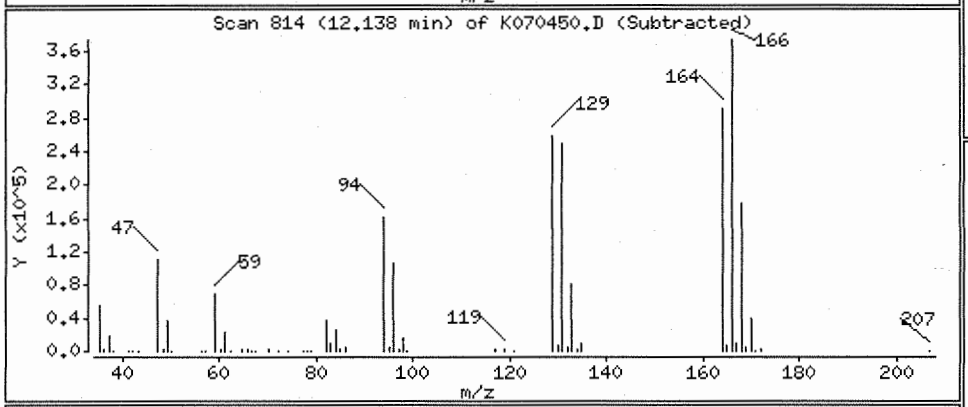
Column diameter: 0.32

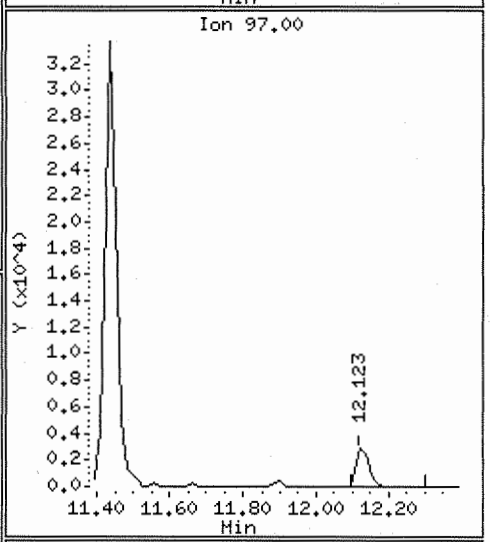
55 1,1,2-Trichloroethane

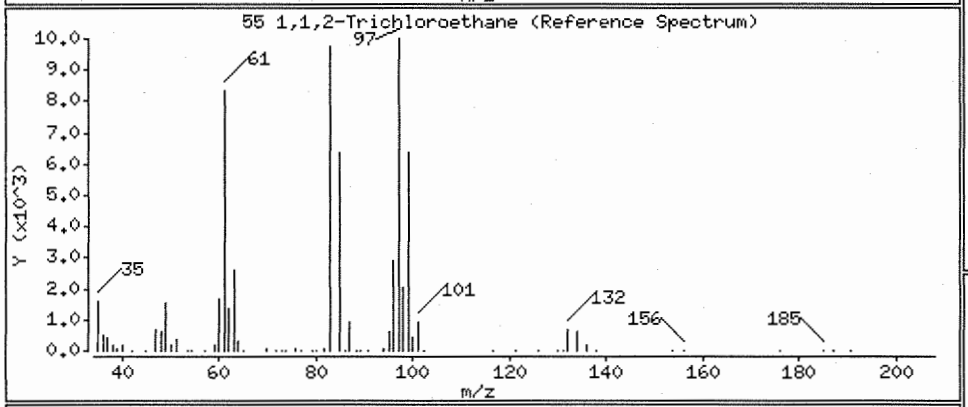
Concentration: 104 ug/L

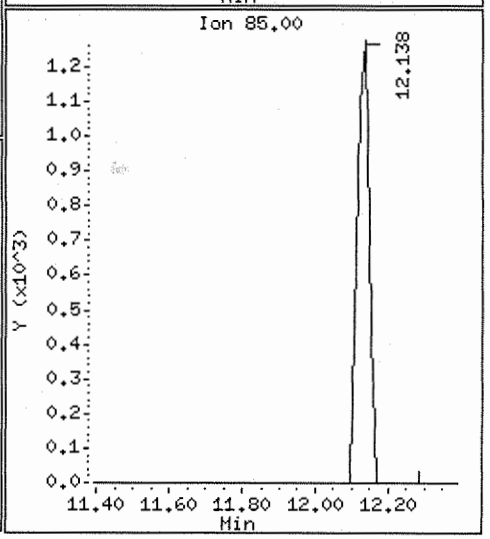


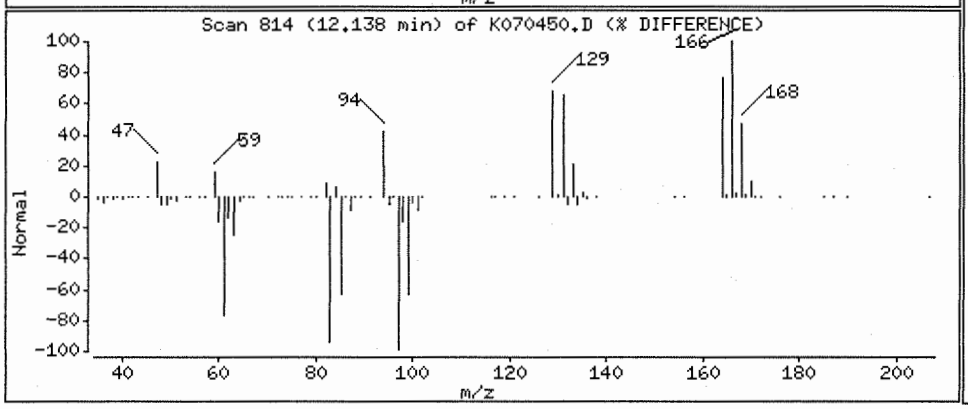












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070450.D

Date : 19-JAN-2007 07:36

Client ID: BLD120-MW-1DL

Instrument: MSK.i

Sample Info: D0700056-001DL

Purge Volume: 10.0

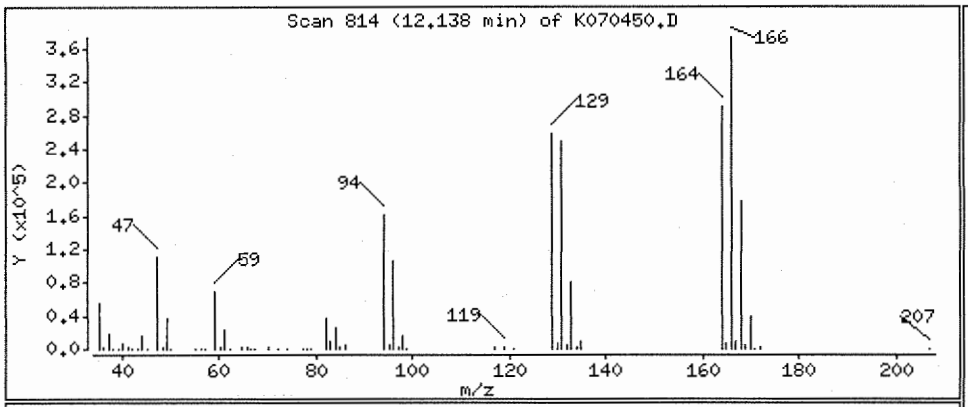
Operator: X

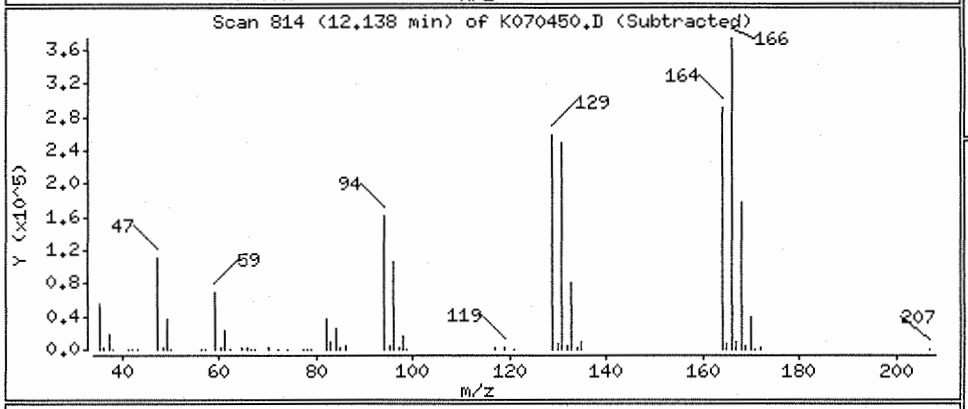
Column phase: DB-624

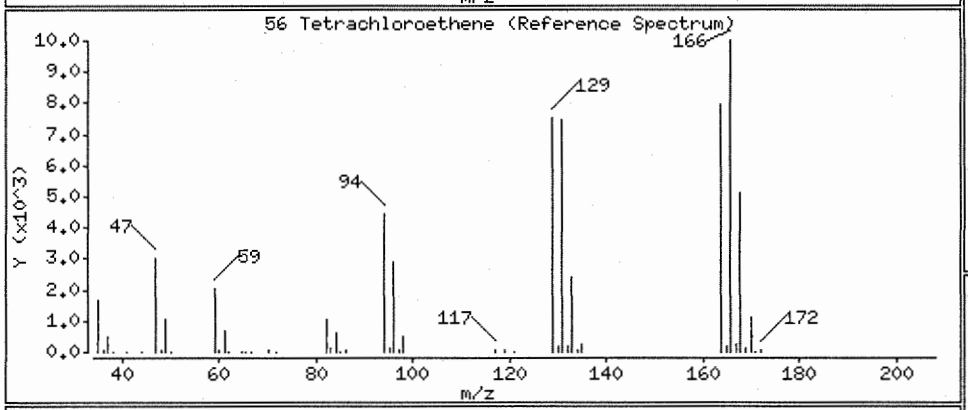
Column diameter: 0.32

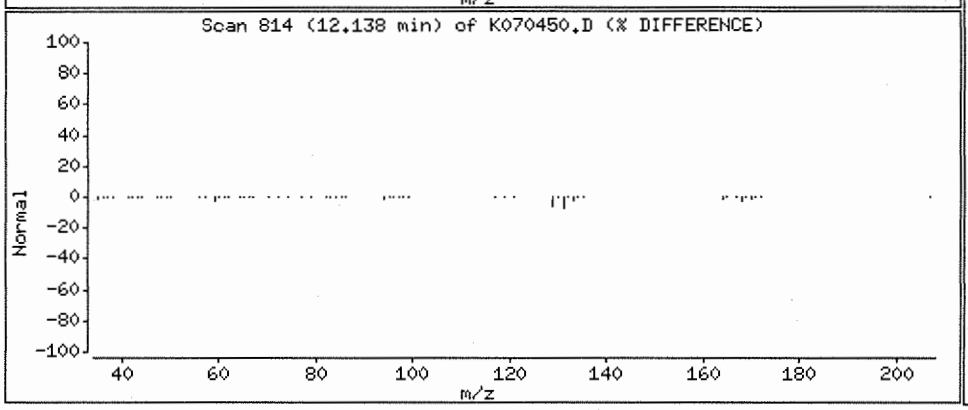
56 Tetrachloroethene

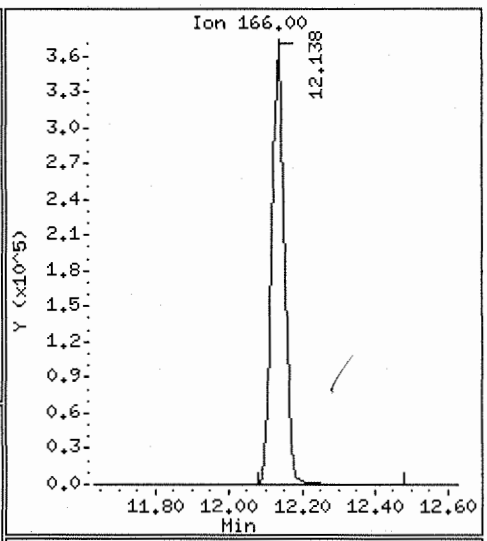
Concentration: 3410 ug/L

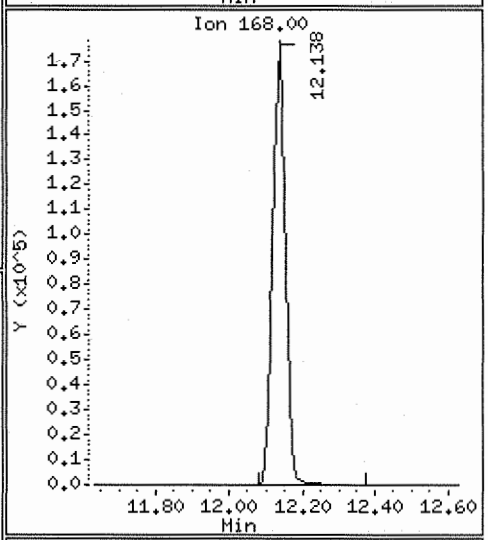


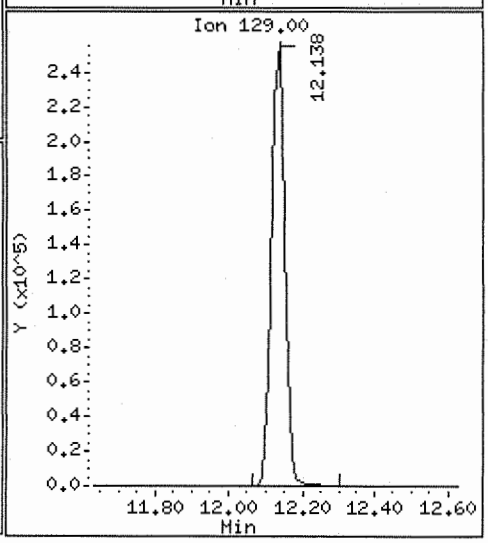












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-6
Lab Code: D0700056-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.5	10	10	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	2.4	10	10	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	**22**		1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	1.8	10	10	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	1.8	10	10	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	1.5	20	10	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	**32**		1.5	5.0	10	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	9.1	100	10	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	1.4	20	10	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	1.9	20	10	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	**99**		1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	1.1	20	10	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	**2.8**	J	1.1	5.0	10	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	2.4	100	10	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	ND	U	6.6	100	10	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	1.7	5.0	10	01/19/2007	01/19/2007	K0118W02	
Chloroform	**2.1**	J	1.3	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	1.4	5.0	10	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	1.3	5.0	10	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	1.3	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	1.0	5.0	10	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	**52**		1.4	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	1.6	5.0	10	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	1.5	5.0	10	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	1.4	10	10	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	1.4	5.0	10	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	5.6	100	10	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	1.3	5.0	10	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.90	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	1.5	5.0	10	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	**32**		0.90	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	1.1	5.0	10	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	4.9	100	10	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	1.2	10	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromoethane (EDB)	ND	U	1.9	10	10	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-6
Lab Code: D0700056-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	ND	U	1.2	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	1.9	5.0	10	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	1.1	5.0	10	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	1.0	15	10	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.70	5.0	10	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	1.8	10	10	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	2.0	5.0	10	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	1.3	10	10	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	2.0	5.0	10	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	1.1	10	10	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	1.4	10	10	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.80	10	10	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.80	10	10	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.90	10	10	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	1.5	5.0	10	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.60	10	10	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	1.4	5.0	10	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	1.0	10	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	1.2	5.0	10	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	9.5	20	10	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	1.1	10	10	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	2.6	10	10	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	1.0	10	10	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	1.5	10	10	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**4400**	D	14	50	100	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	115	79-135	01/19/2007	
4-Bromofluorobenzene - SS	104	82-124	01/19/2007	
Dibromofluoromethane - SS	106	84-127	01/19/2007	
Toluene-d8 - SS	102	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D
Lab Smp Id: D0700056-002 Client Smp ID: BLD120-MW-6
Inj Date : 19-JAN-2007 08:02
Operator : X Inst ID: MSK.i
Smp Info : D0700056-002
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 5
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8 01/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	9.686	9.673	(1.000)	990103	10.0000	
*	2 Chlorobenzene-d5	117	13.018	13.020	(1.000)	657517	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.606	15.593	(1.000)	262107	10.0000	
$	4 Dibromofluoromethane	113	8.883	8.870	(0.917)	336711	10.5519	10.6
$	5 1,2-Dichloroethane-d4	65	9.284	9.287	(0.959)	337590	11.4998	11.5
$	6 Toluene-d8	98	11.426	11.414	(0.878)	868322	10.1792	10.2
$	7 Bromofluorobenzene	174	14.282	14.284	(0.915)	246734	10.4042	10.4
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	4.049	4.036	(0.418)	58601	2.18870	21.9
	12 Bromomethane	94	4.644	4.646	(0.479)	2230	0.73913	~~7.39(a)~~
	13 Chloroethane	64	4.674	4.810	(0.483)	2935	0.22747	~~2.27(a)~~
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	17 1,1-Dichloroethene	96	6.057	6.044	(0.625)	76795	3.20813	32.1
	18 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Methylene chloride	84	Compound Not Detected.					
	26 trans-1,2-Dichloroethene	96	7.098	7.085	(0.733)	294632	9.93943	99.4
	27 tert-Butylmethylether	73	Compound Not Detected.					
	28 1,1-Dichloroethane	63	7.633	7.621	(0.788)	15625	0.27816	2.78(a)
	30 Vinyl acetate	43	Compound Not Detected.					

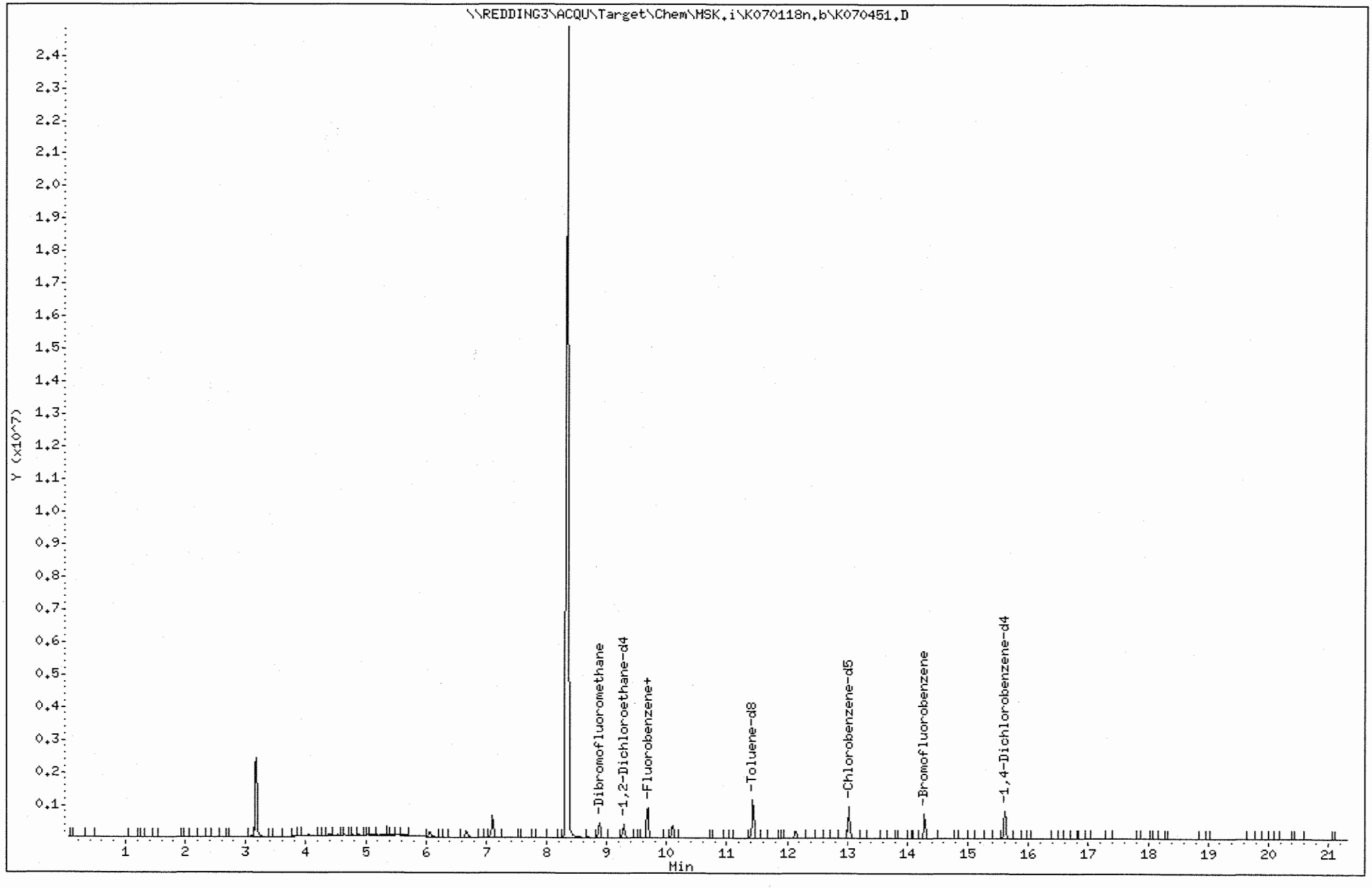
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.333	8.335	(0.860)	13726095	421.813	4220(AQ)
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.690	8.677	(0.897)	11183	0.21188	2.12(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.671	9.361	(0.998)	14581	0.39421	3.94(a)
45	Trichloroethene	95	10.103	10.090	(1.043)	160333	5.19640	52.0
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	12.140	12.128	(0.933)	78161	3.18175	31.8
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D
Date : 19-JAN-2007 08:02
Client ID: BLD120-MW-6
Sample Info: D0700056-002
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

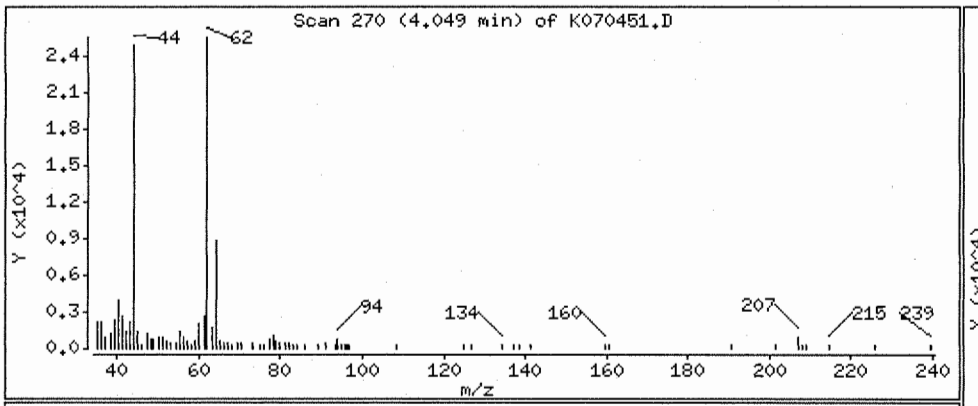
Client ID: BLD120-MW-6 Instrument: MSK.i

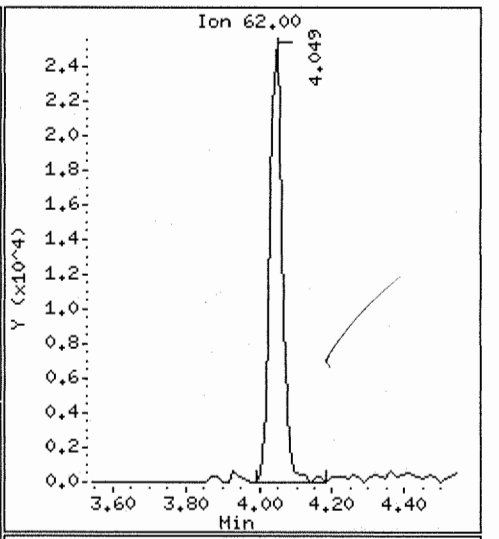
Sample Info: D0700056-002

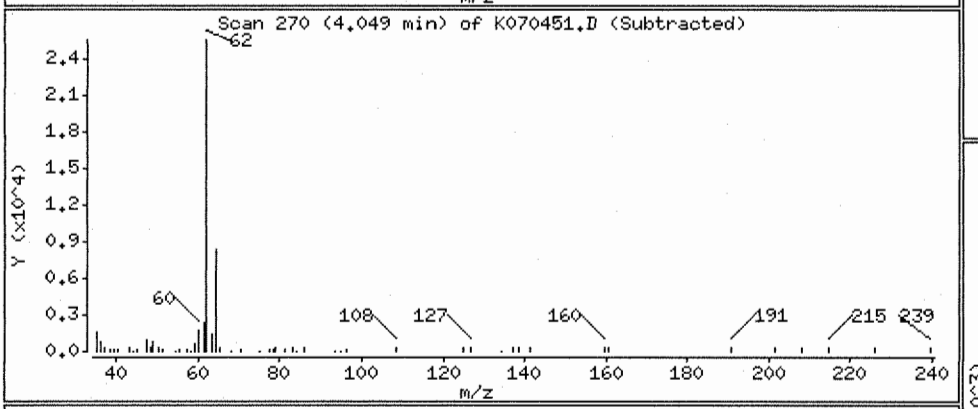
Purge Volume: 10.0 Operator: X

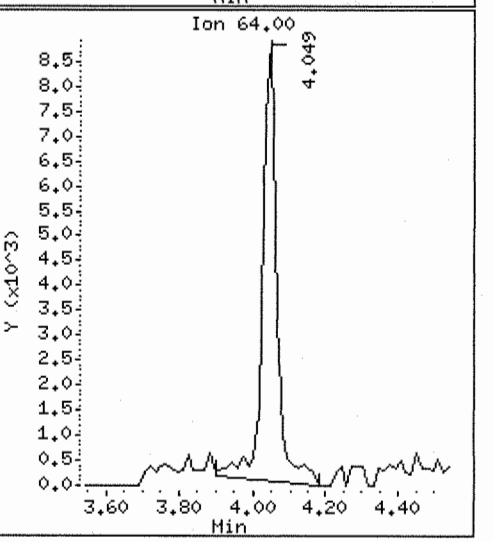
Column phase: DB-624 Column diameter: 0.32

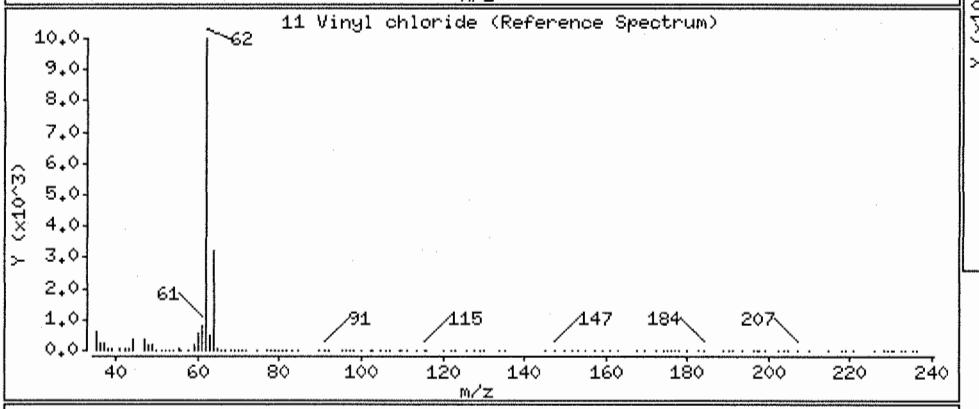
11 Vinyl chloride Concentration: 21.9 ug/L

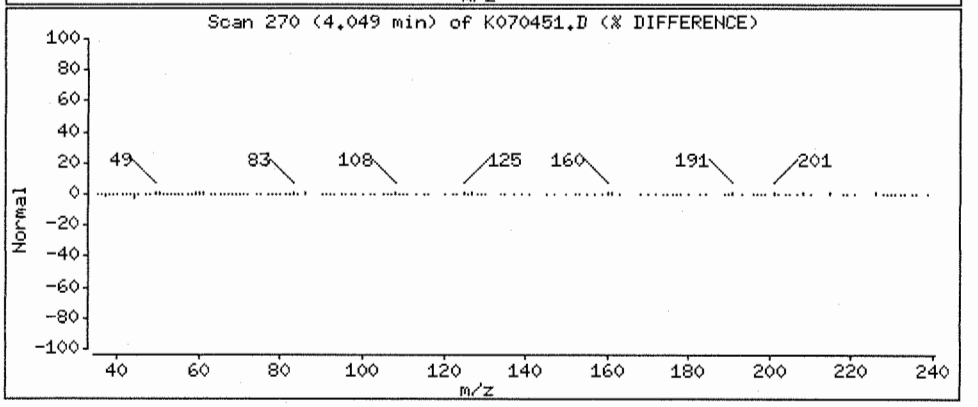












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

Client ID: BLD120-MW-6

Instrument: MSK.i

Sample Info: D0700056-002

Purge Volume: 10.0

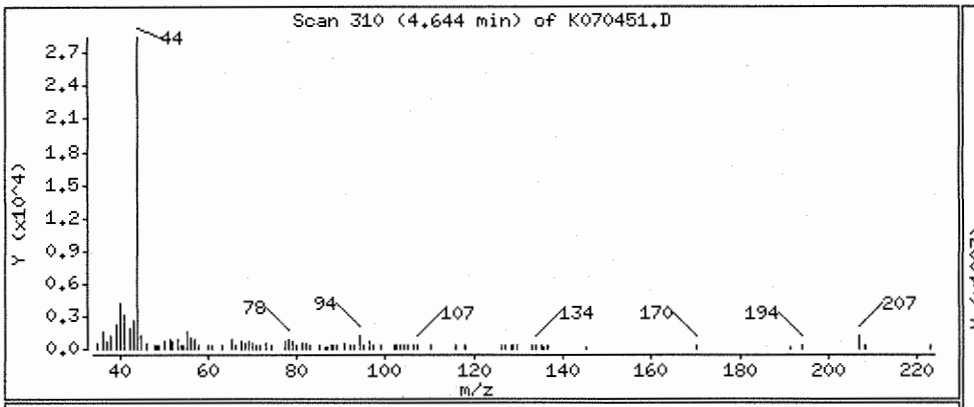
Operator: X

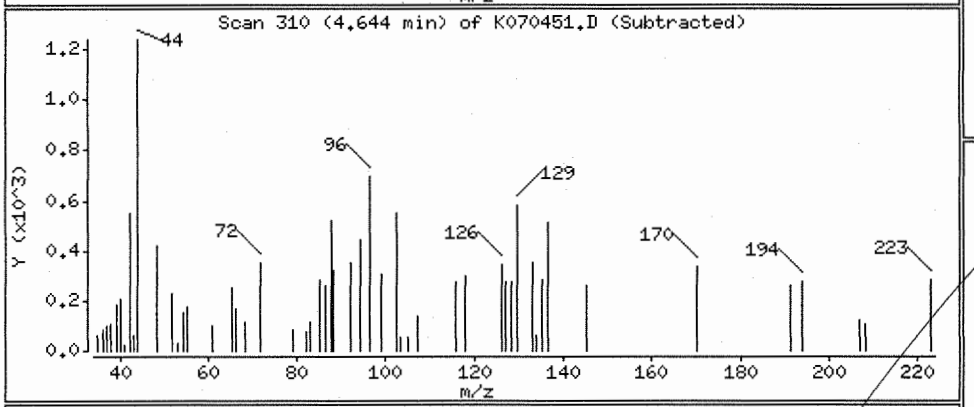
Column phase: DB-624

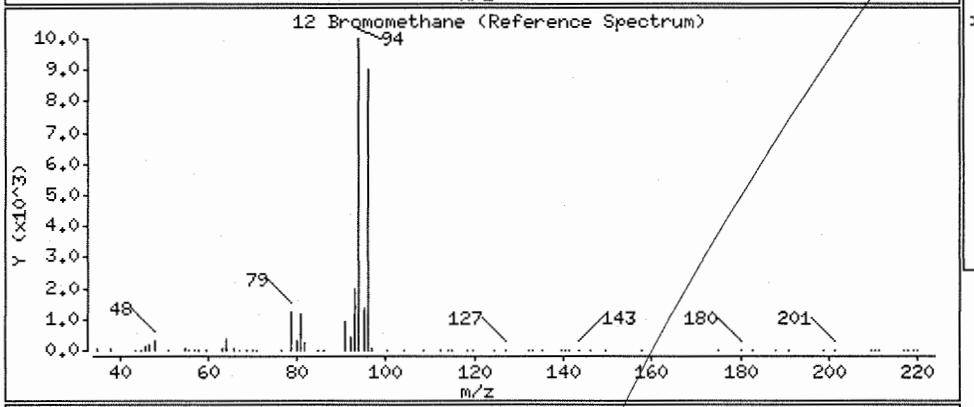
Column diameter: 0.32

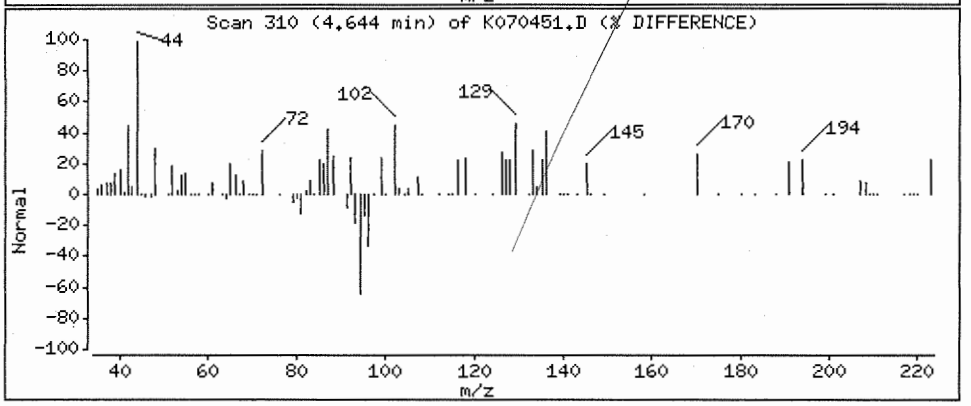
12 Bromomethane

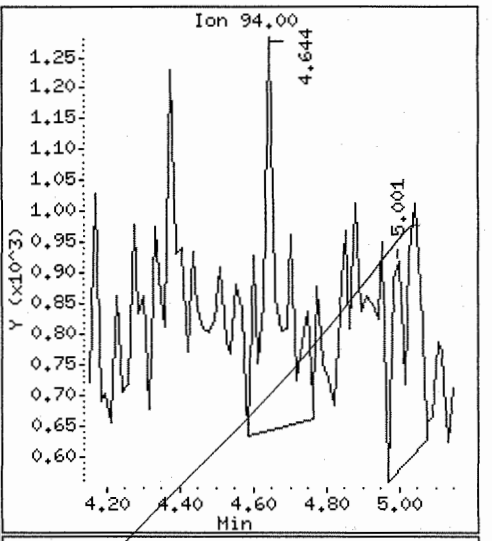
Concentration: 7.39 ug/L

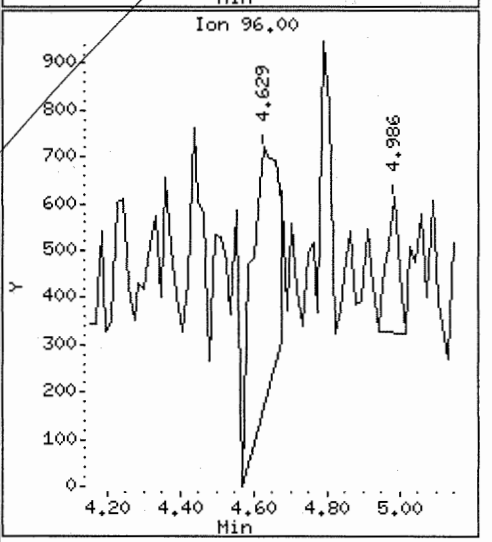












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

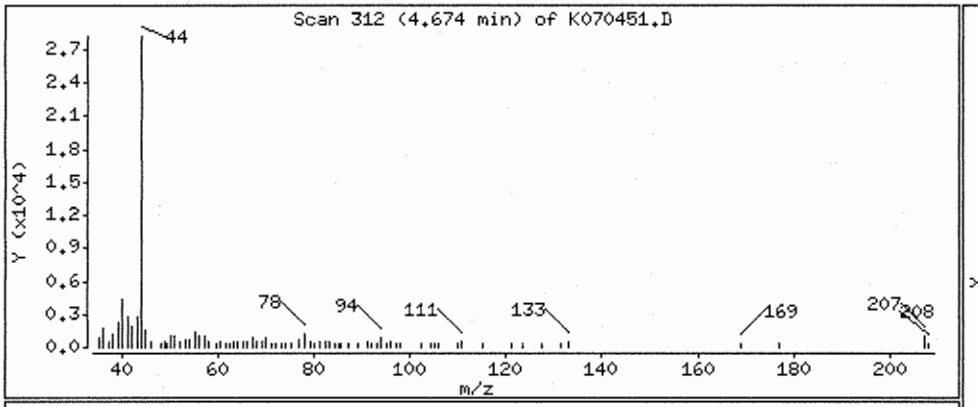
Client ID: BLD120-MW-6 Instrument: MSK.i

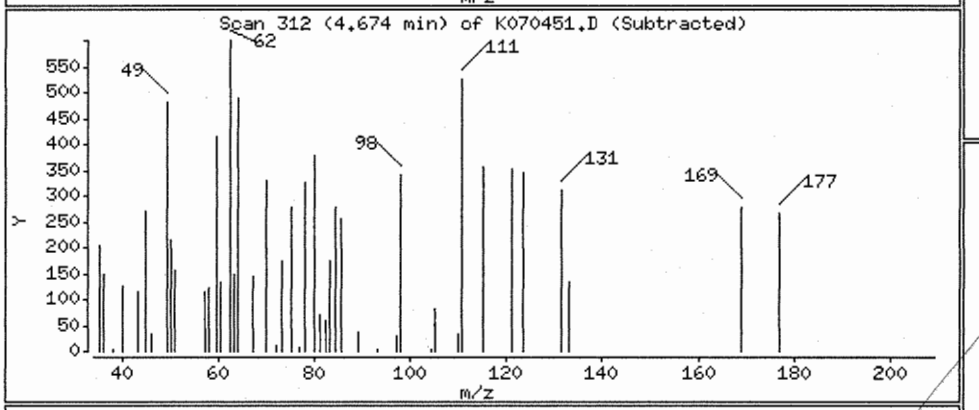
Sample Info: D0700056-002

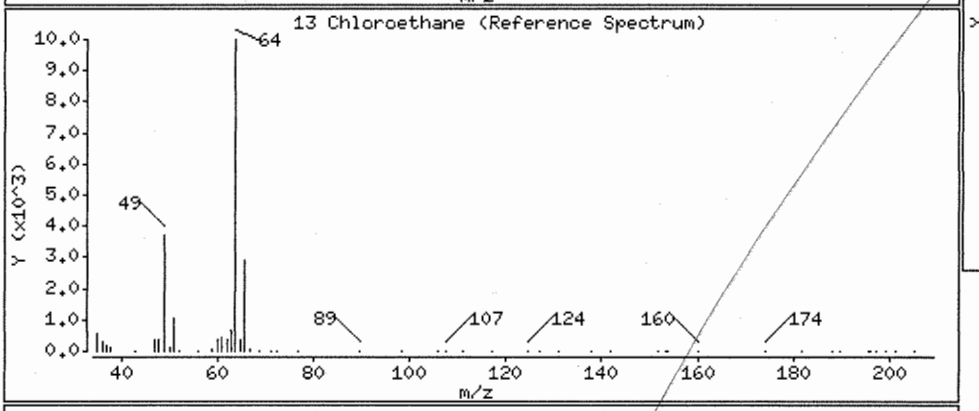
Purge Volume: 10.0 Operator: X

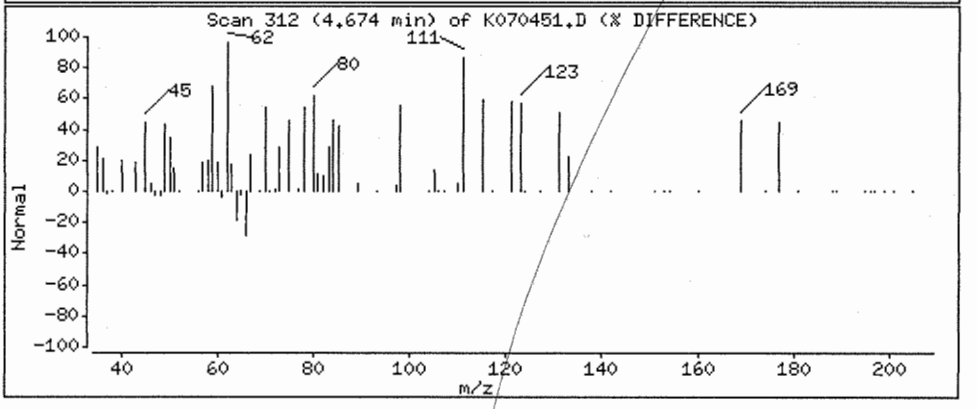
Column phase: DB-624 Column diameter: 0.32

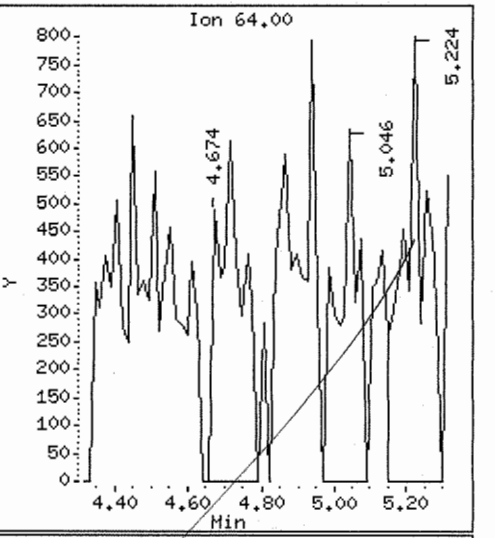
13 Chloroethane Concentration: 2.27 ug/L

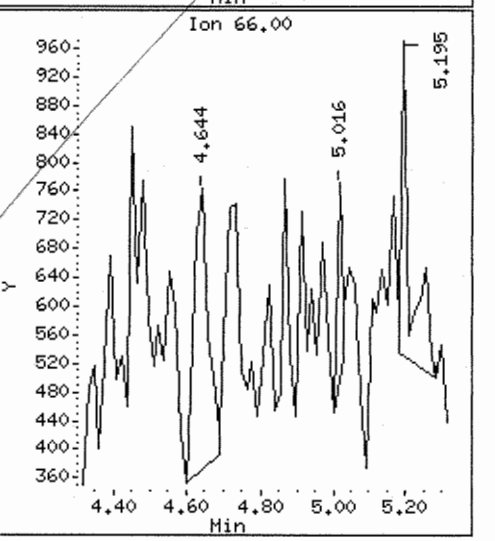












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

Client ID: BLD120-MW-6

Instrument: MSK.i

Sample Info: D0700056-002

Purge Volume: 10.0

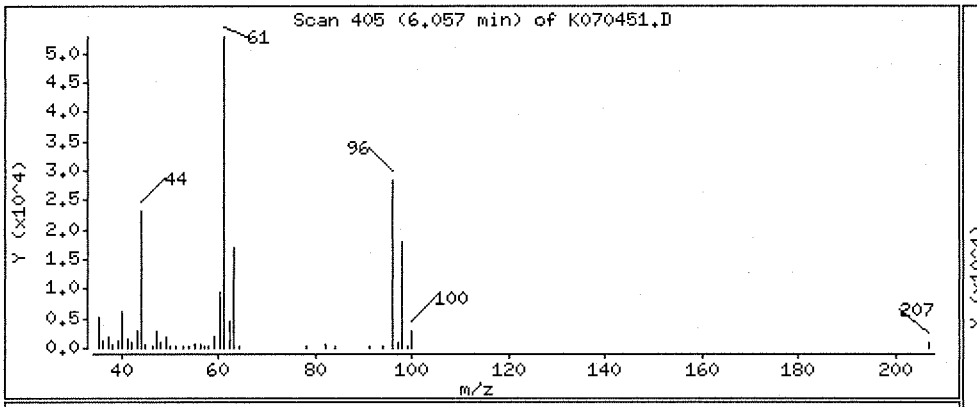
Operator: X

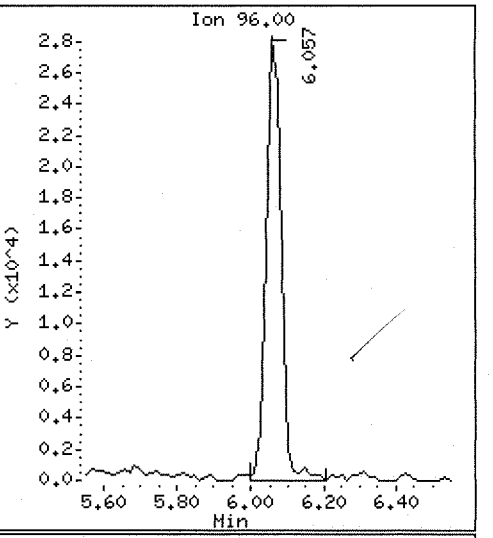
Column phase: DB-624

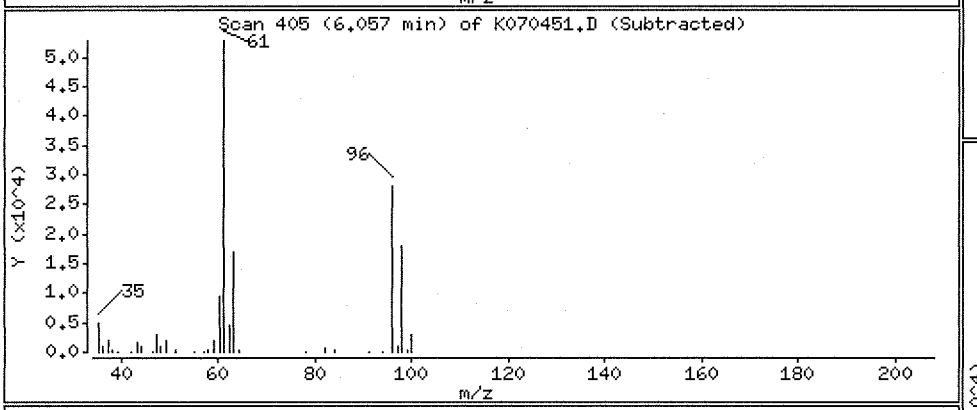
Column diameter: 0.32

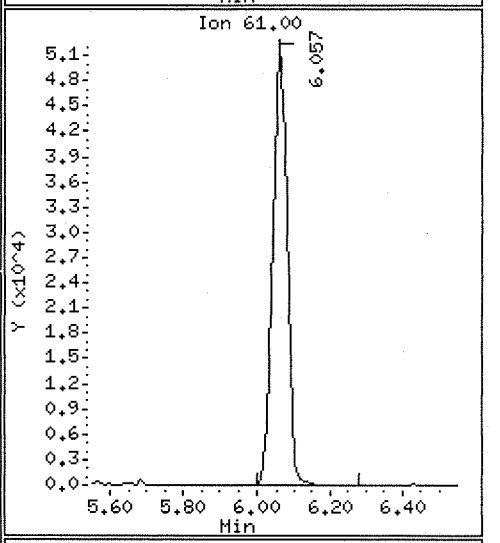
17 1,1-Dichloroethene

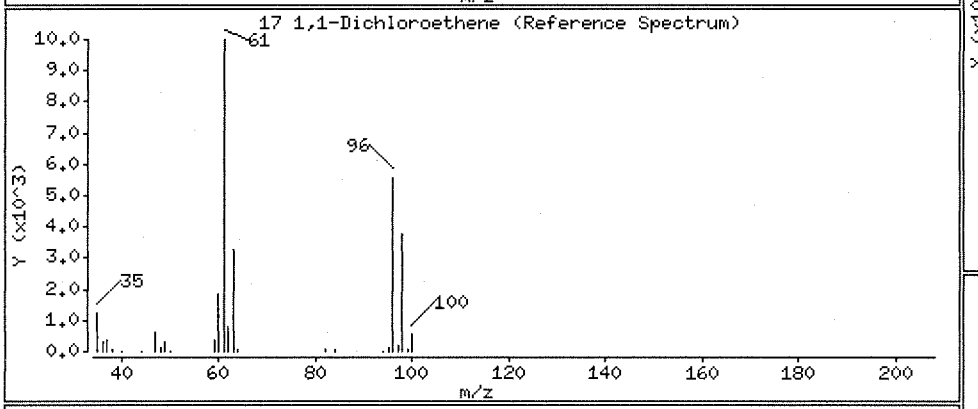
Concentration: 32.1 ug/L

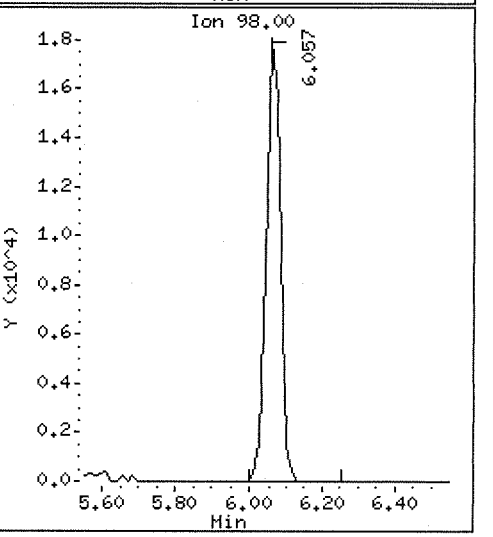


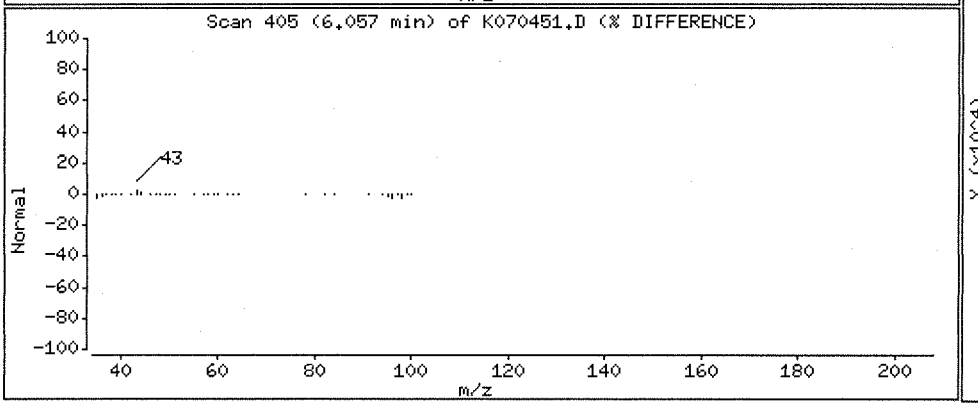












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

Client ID: BLD120-MW-6

Instrument: MSK.i

Sample Info: D0700056-002

Purge Volume: 10.0

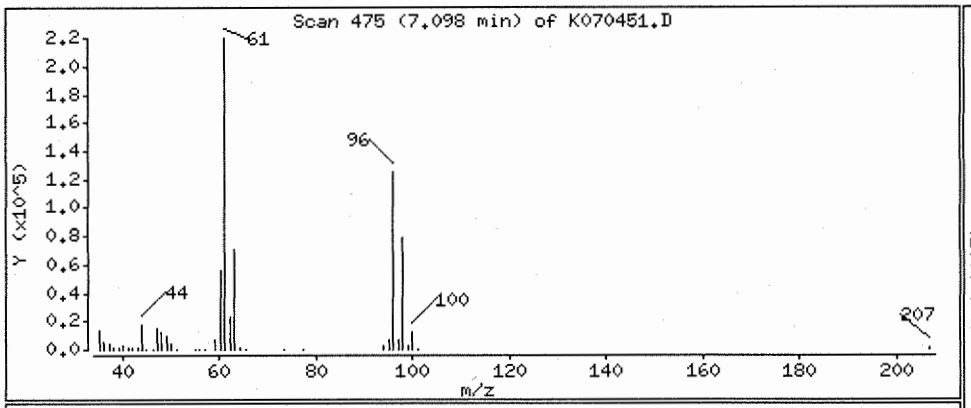
Operator: X

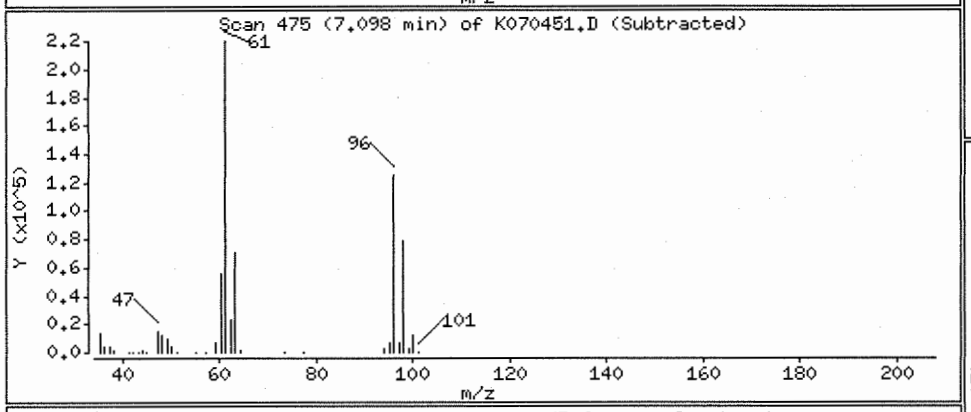
Column phase: DB-624

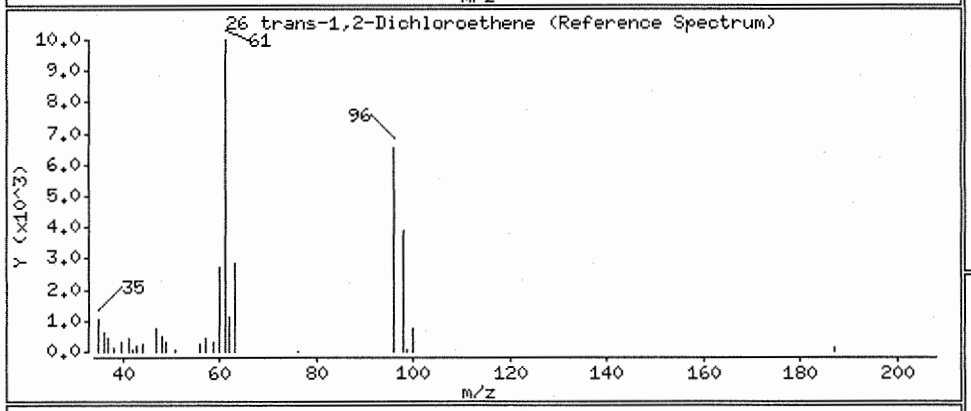
Column diameter: 0.32

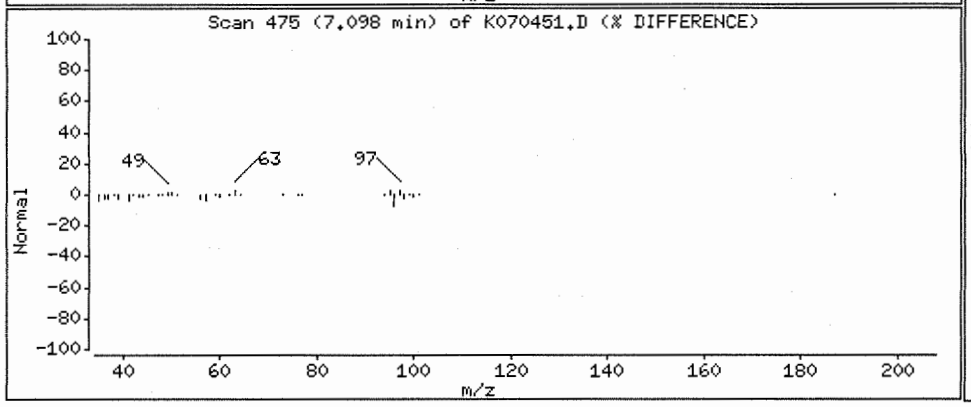
26 trans-1,2-Dichloroethene

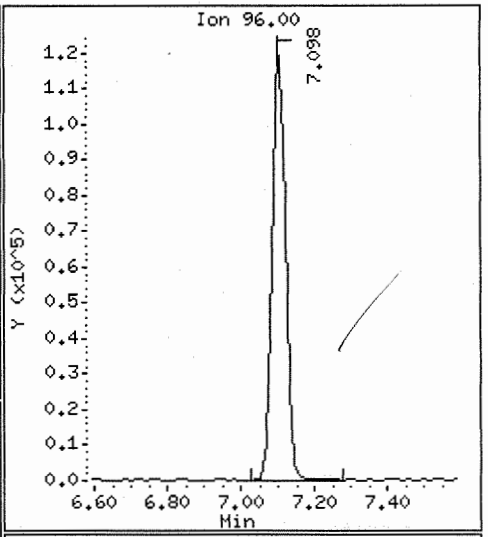
Concentration: 99.4 ug/L

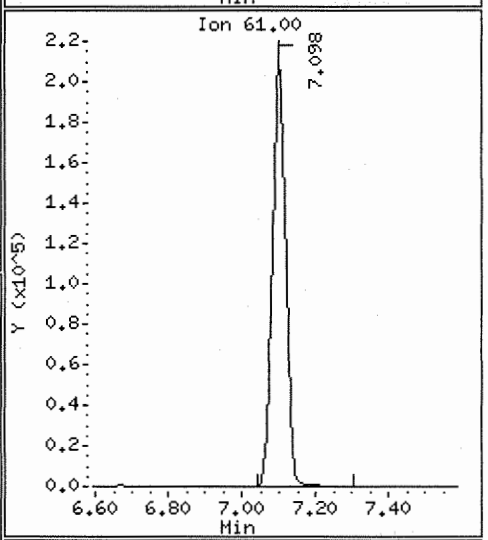


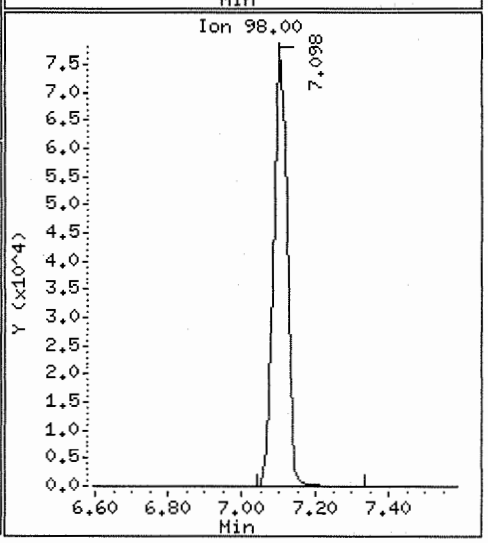












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

Client ID: BLD120-MW-6

Instrument: MSK.i

Sample Info: D0700056-002

Purge Volume: 10.0

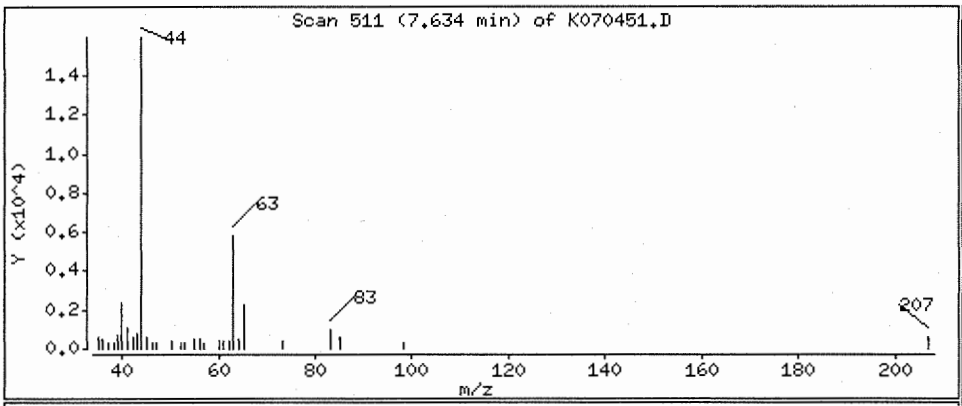
Operator: X

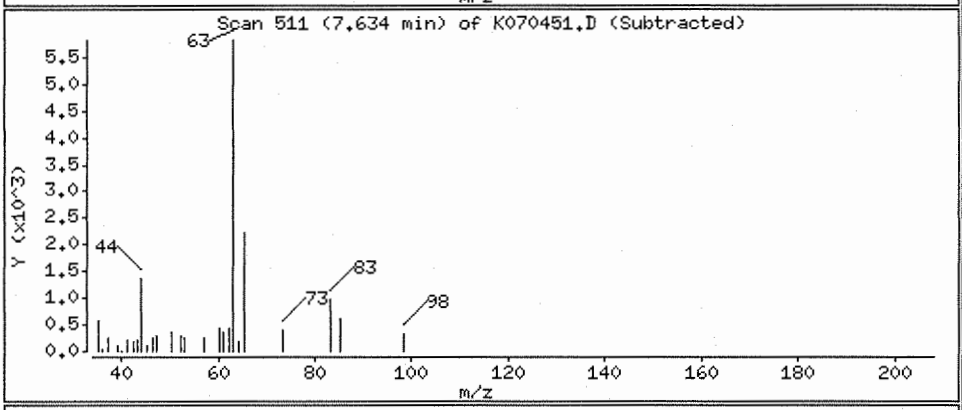
Column phase: DB-624

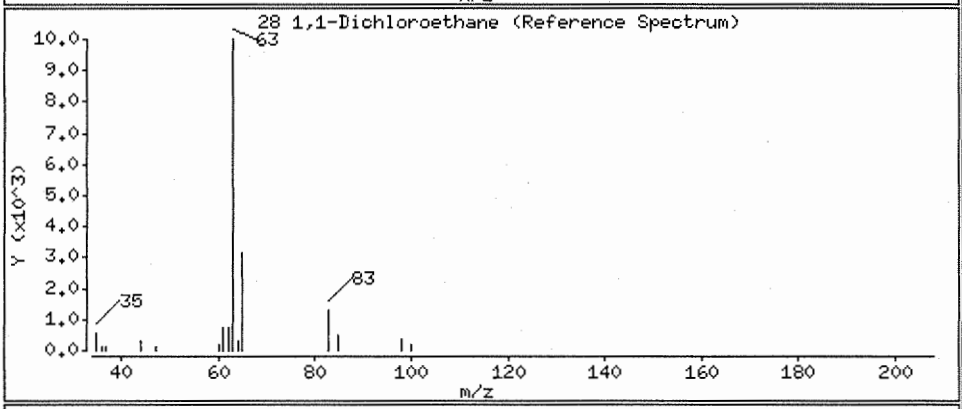
Column diameter: 0.32

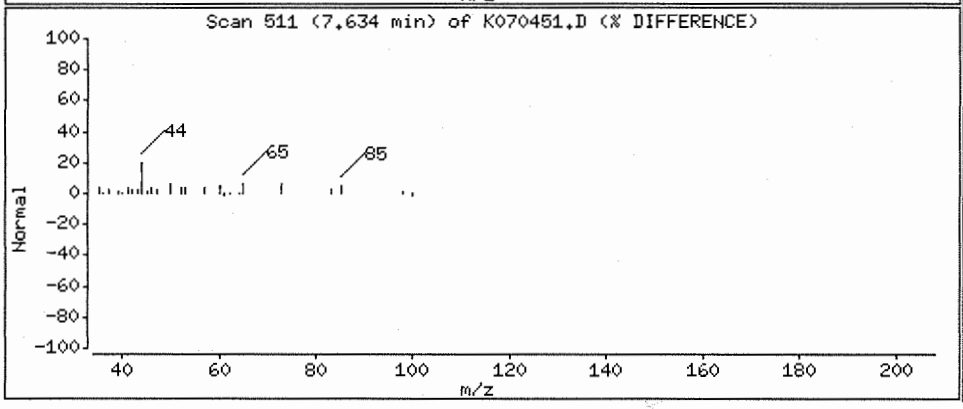
28 1,1-Dichloroethane

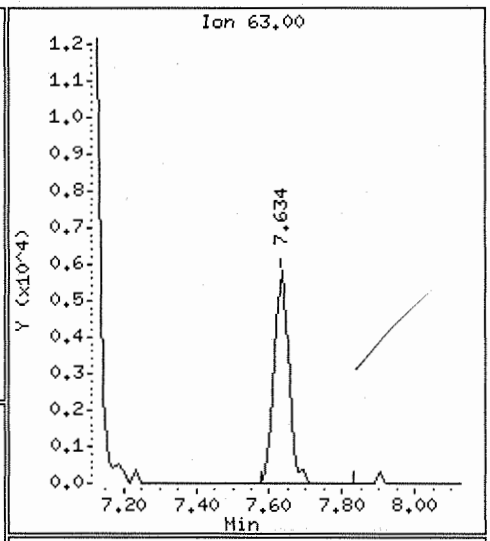
Concentration: 2.78 ug/L

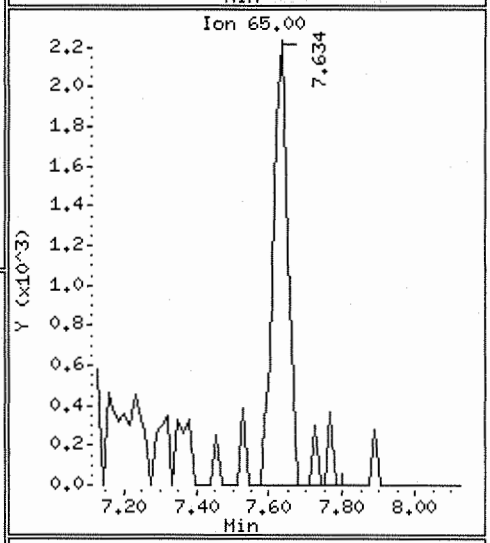


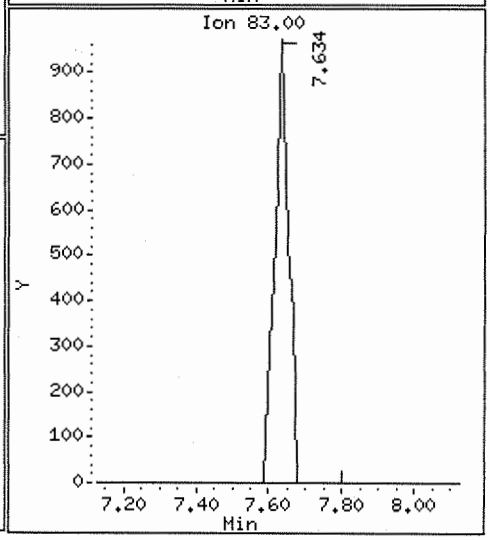












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

Client ID: BLD120-MW-6

Instrument: MSK.i

Sample Info: D0700056-002

Purge Volume: 10.0

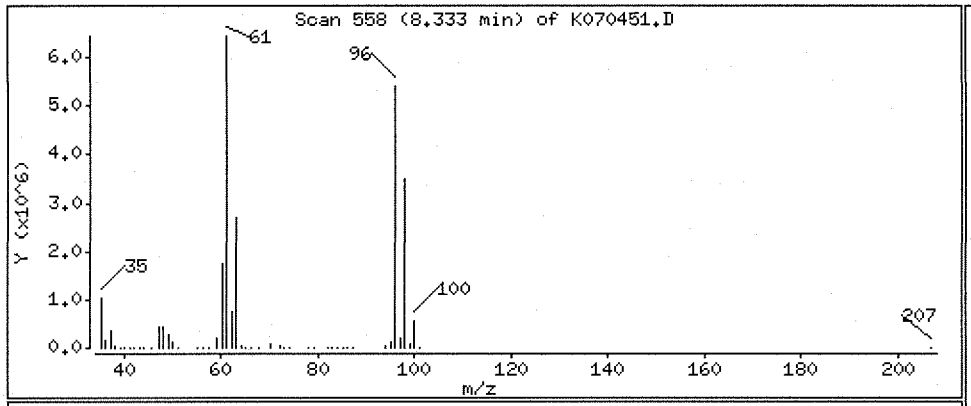
Operator: X

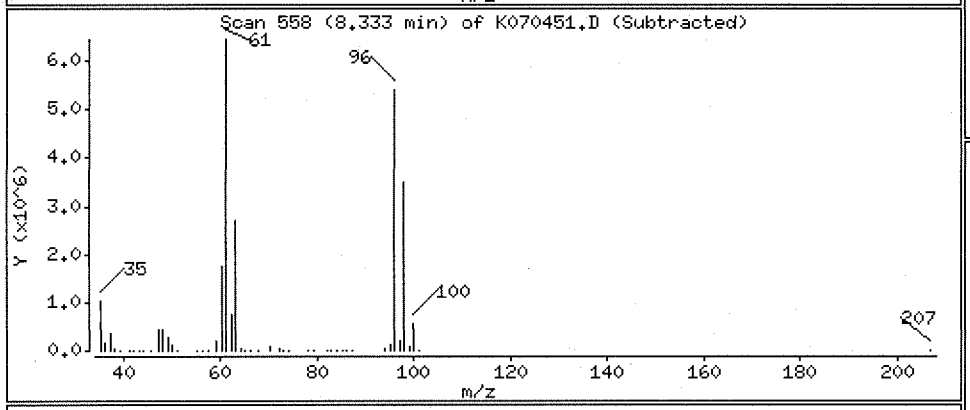
Column phase: DB-624

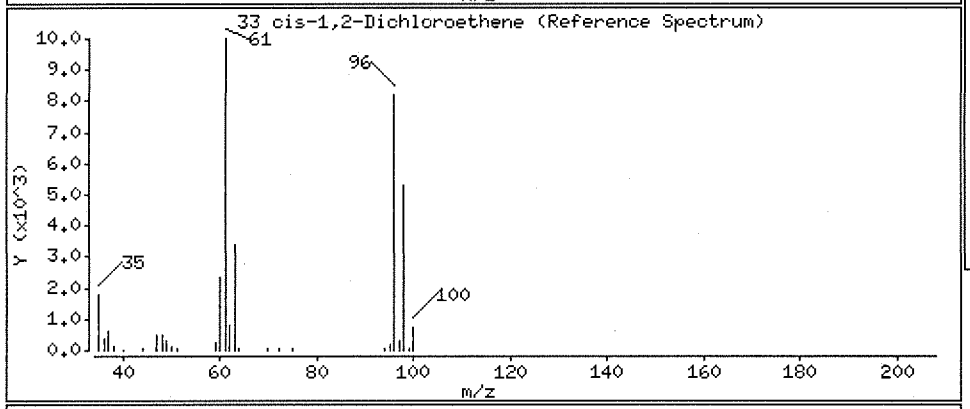
Column diameter: 0.32

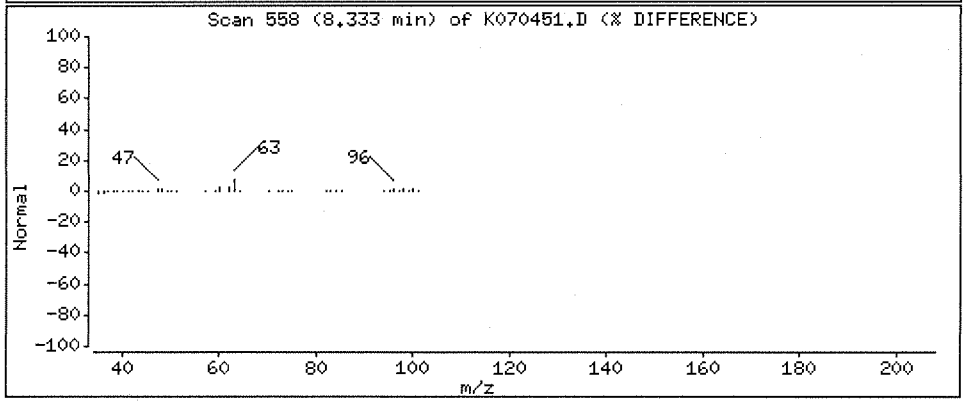
33 cis-1,2-Dichloroethene

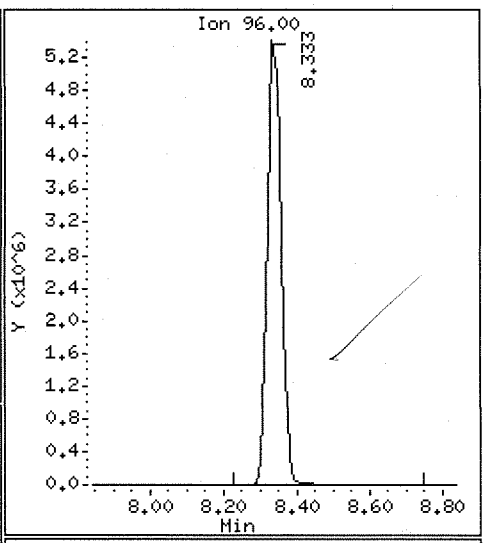
Concentration: 4220 ug/L

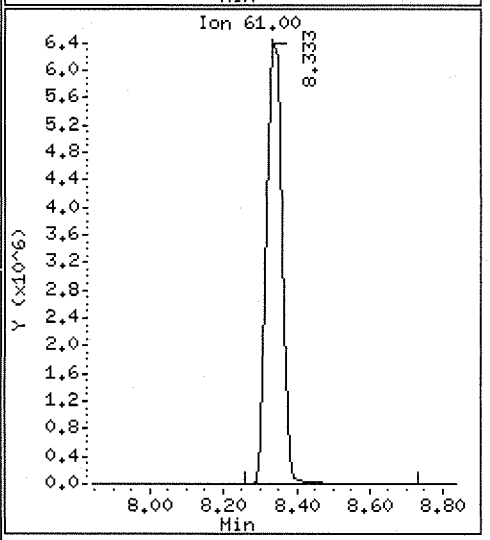












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

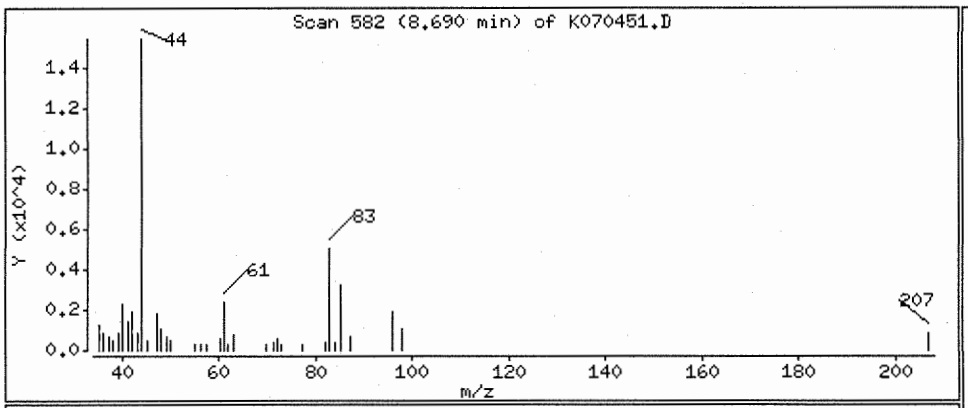
Client ID: BLD120-MW-6 Instrument: MSK.i

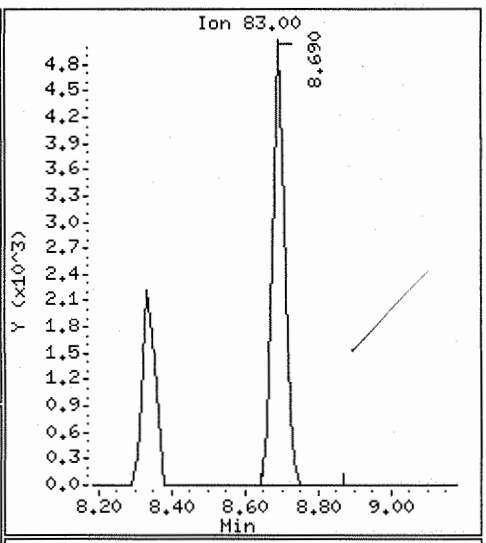
Sample Info: D0700056-002

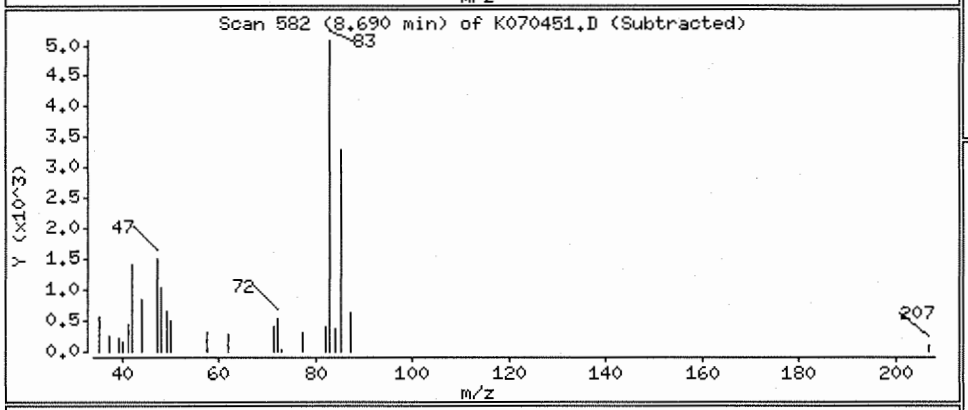
Purge Volume: 10.0 Operator: X

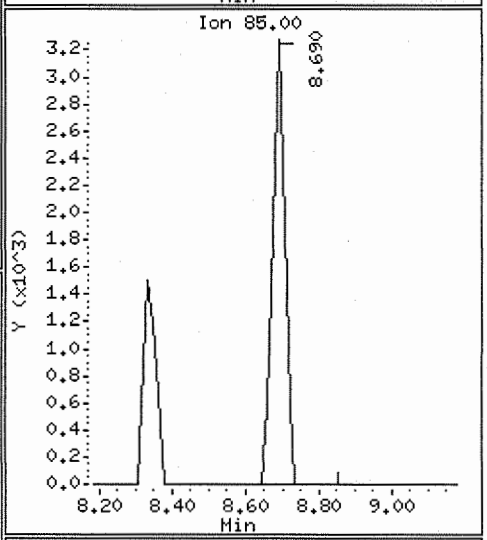
Column phase: DB-624 Column diameter: 0.32

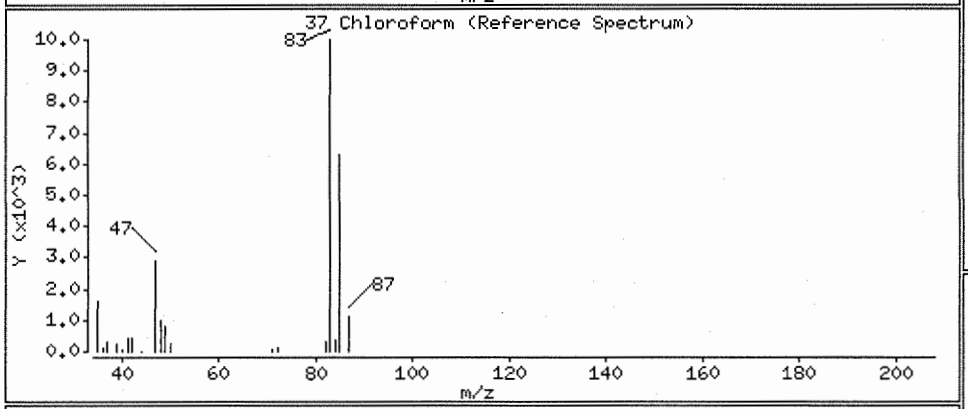
37 Chloroform Concentration: 2.12 ug/L

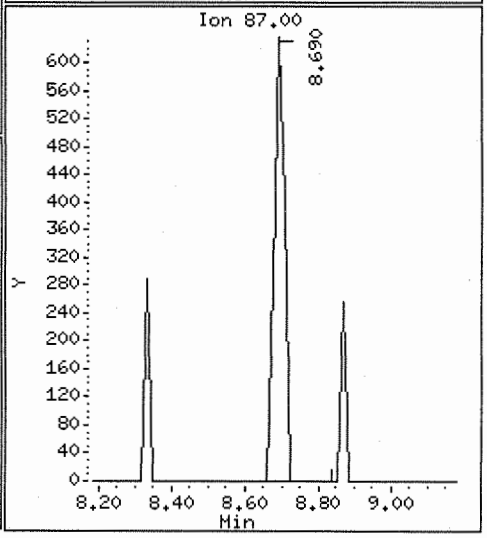


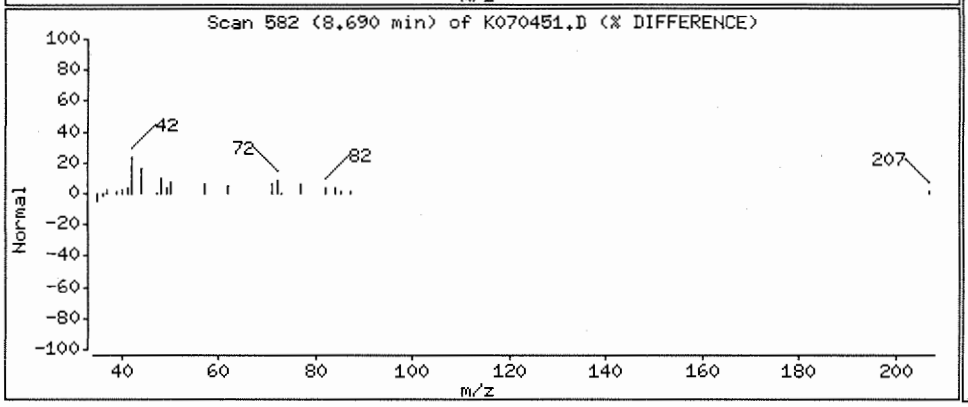












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

Client ID: BLD120-MW-6

Instrument: MSK.i

Sample Info: D0700056-002

Purge Volume: 10.0

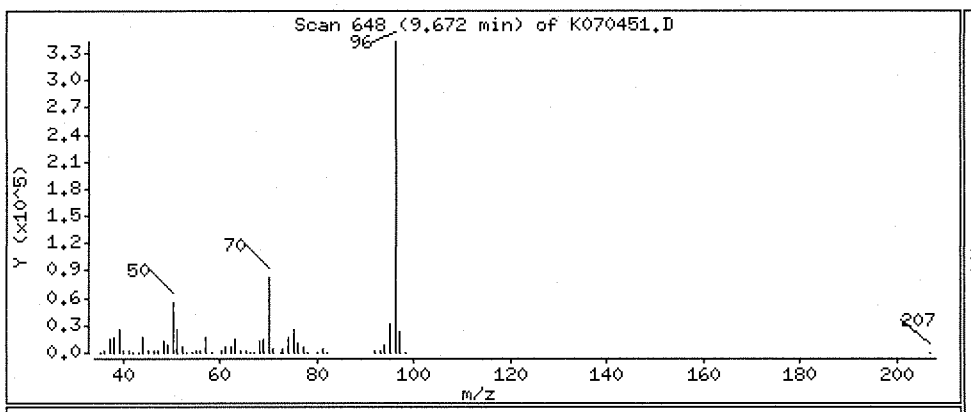
Operator: X

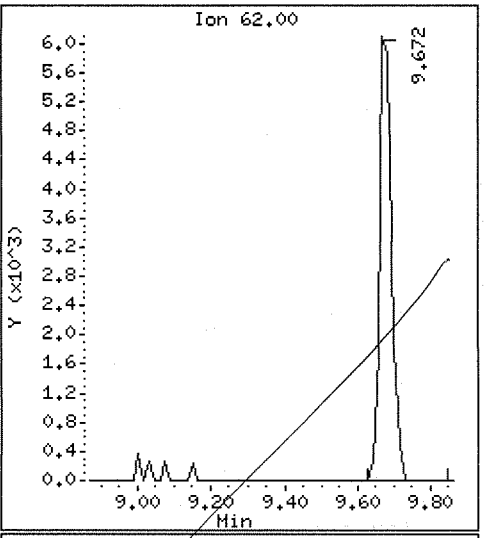
Column phase: DB-624

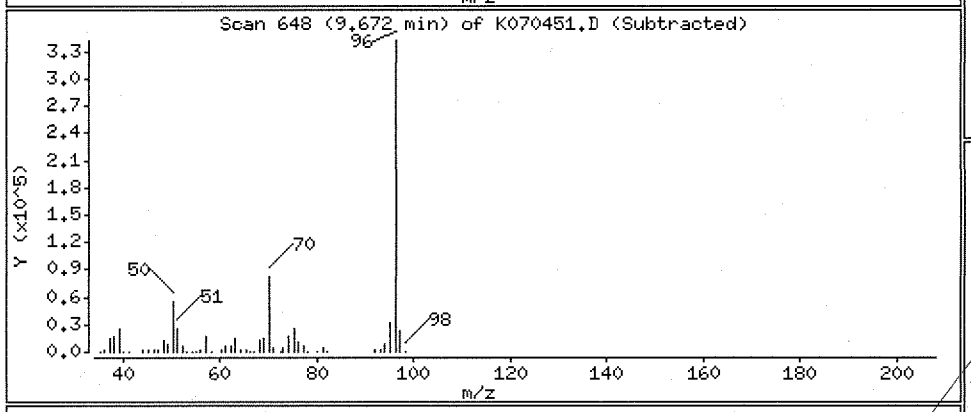
Column diameter: 0.32

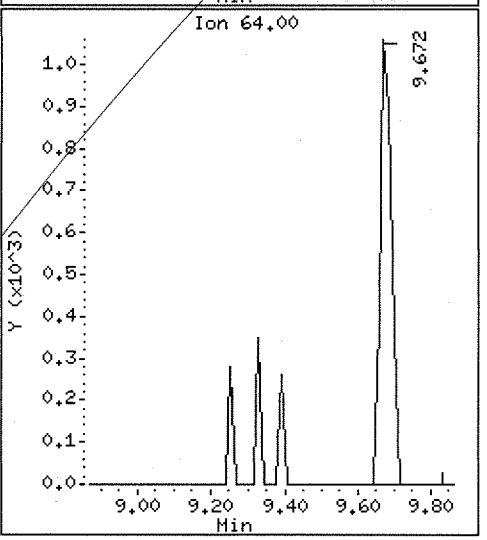
44 1,2-Dichloroethane

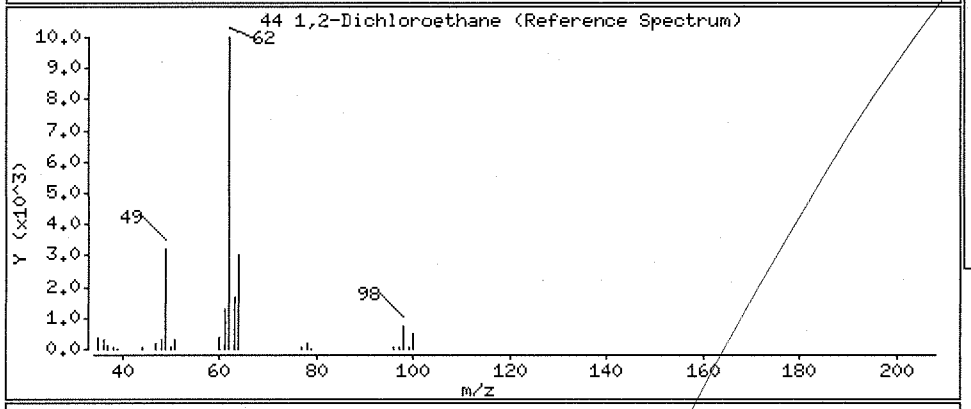
Concentration: 3.94 ug/L

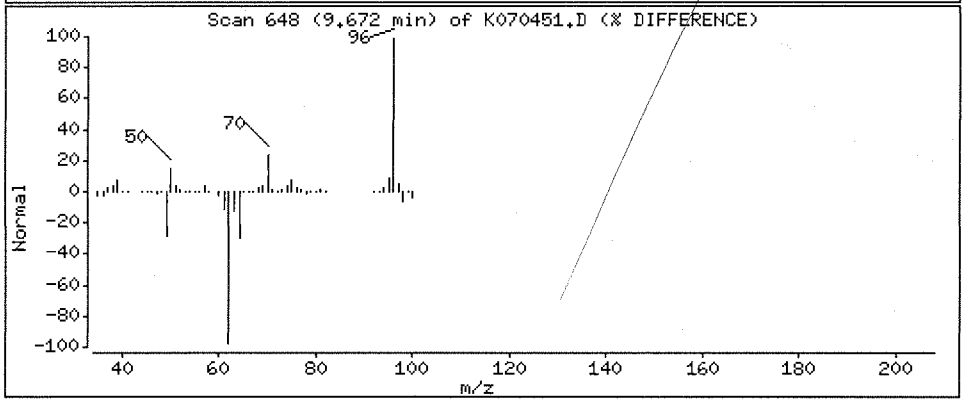












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

Client ID: BLD120-MW-6

Instrument: MSK.i

Sample Info: D0700056-002

Purge Volume: 10.0

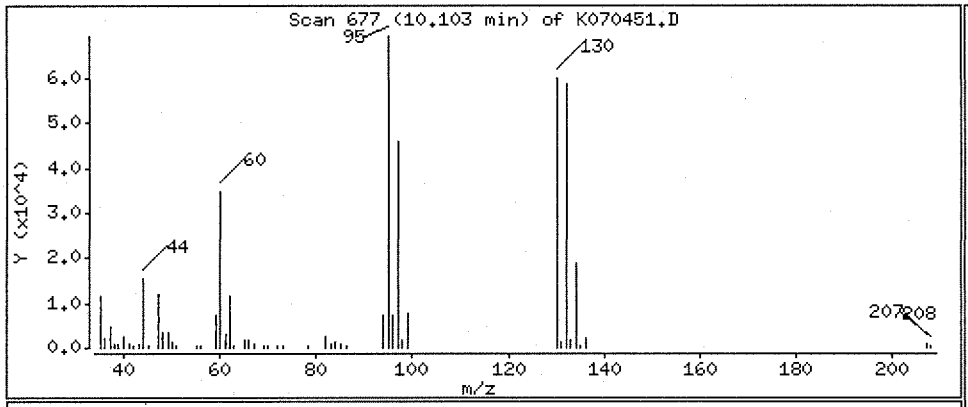
Operator: X

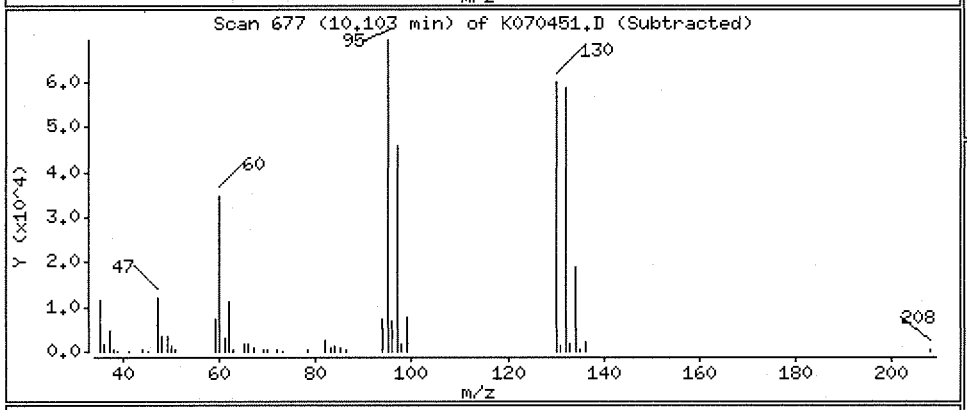
Column phase: DB-624

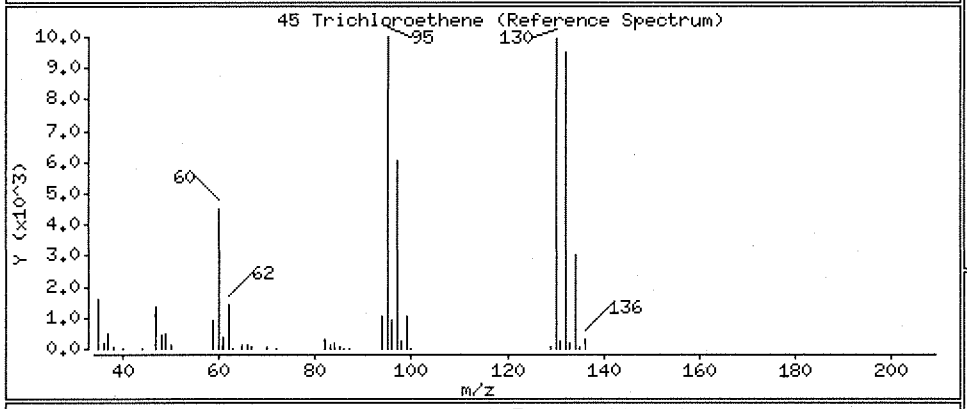
Column diameter: 0.32

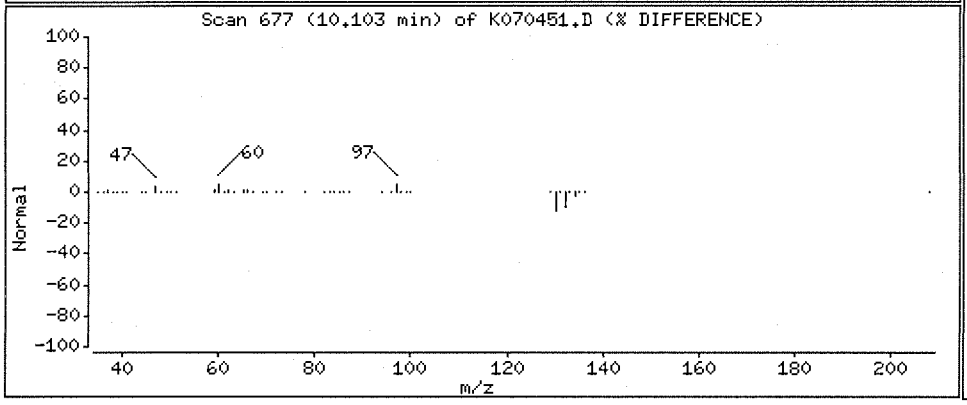
45 Trichloroethene

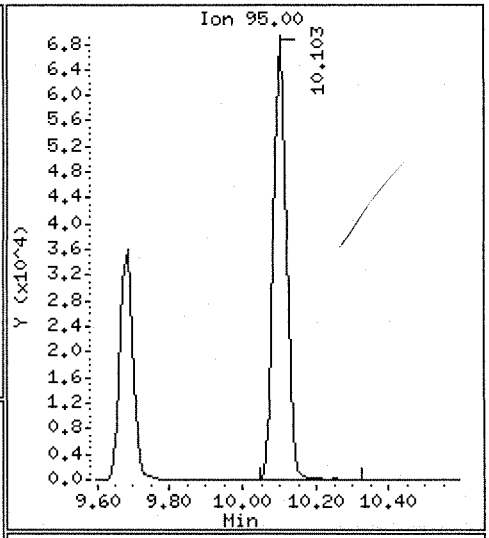
Concentration: 52.0 ug/L

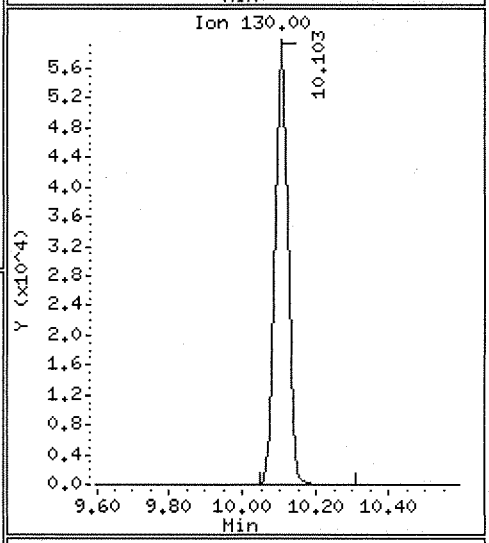


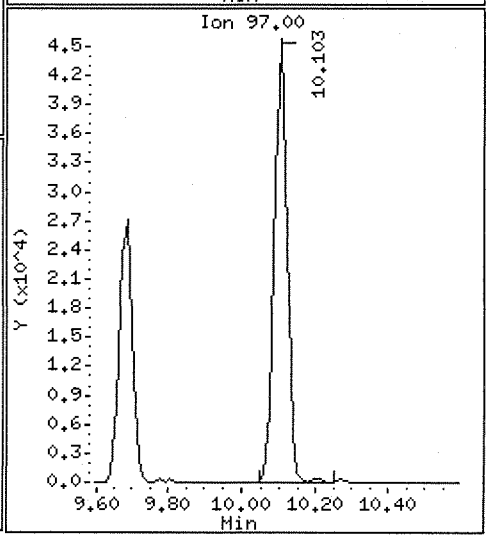












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070451.D

Date : 19-JAN-2007 08:02

Client ID: BLD120-MW-6

Instrument: MSK.i

Sample Info: D0700056-002

Purge Volume: 10.0

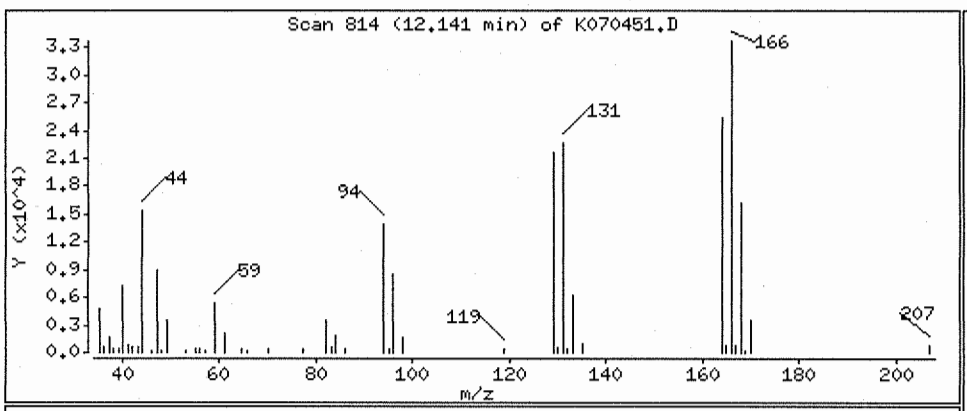
Operator: X

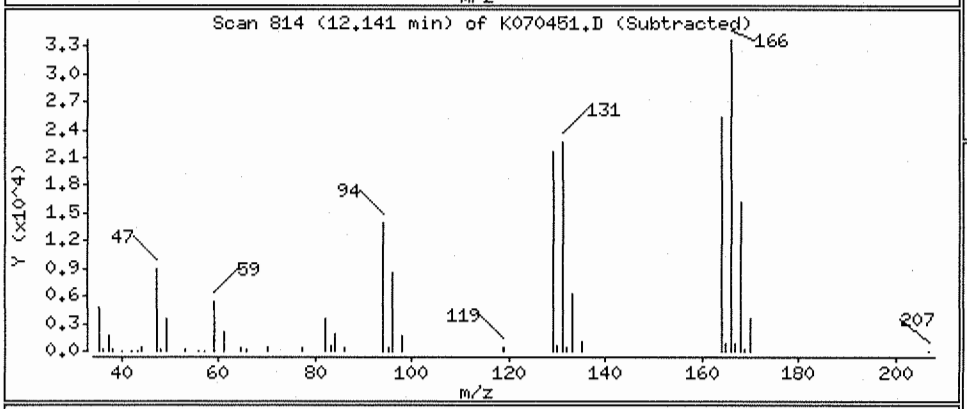
Column phase: DB-624

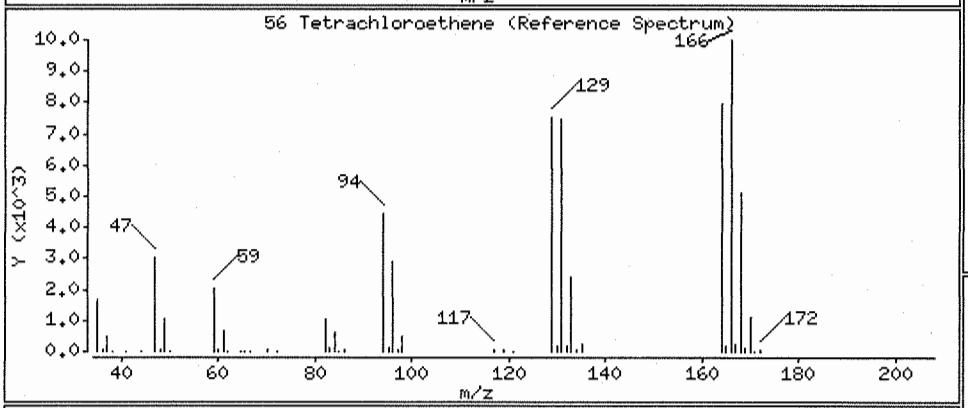
Column diameter: 0.32

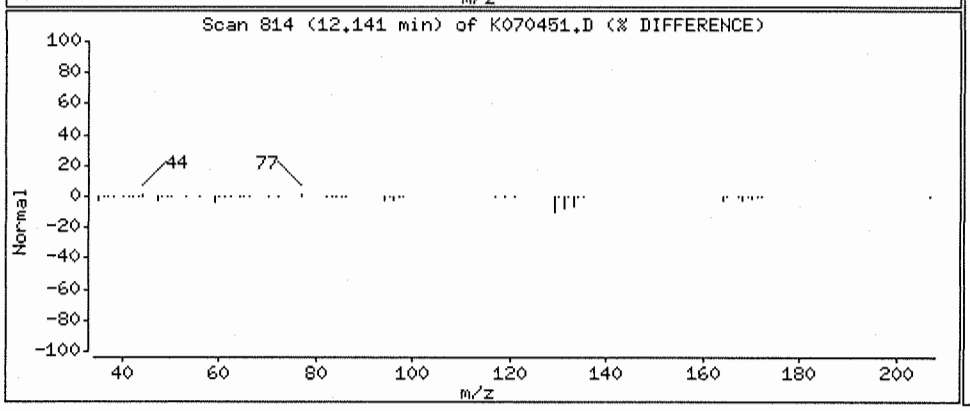
56 Tetrachloroethene

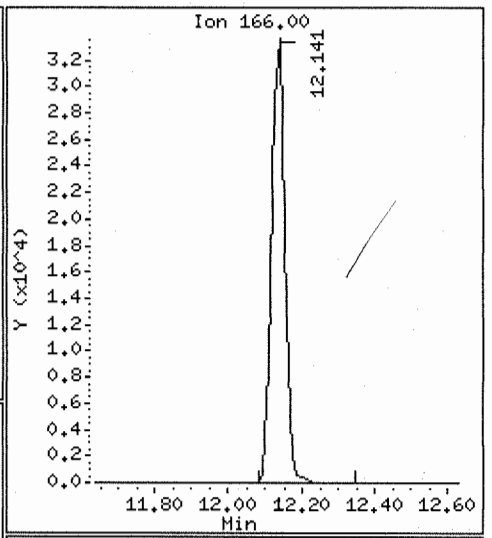
Concentration: 31.8 ug/L

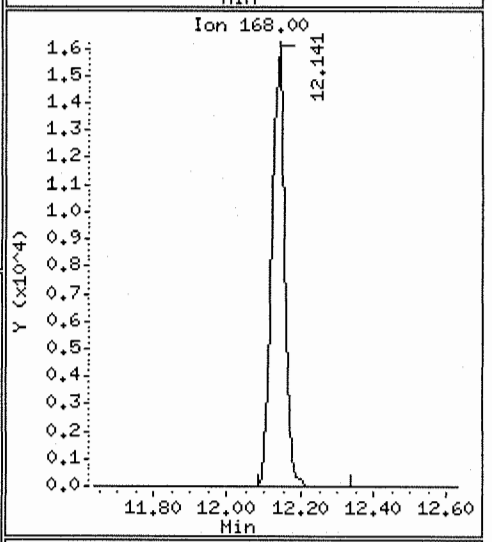


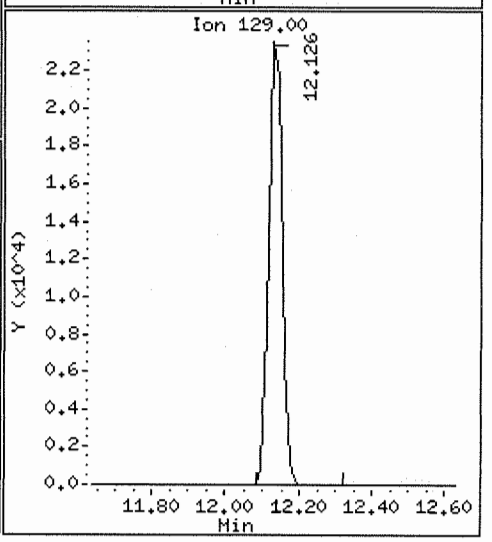












Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D
Lab Smp Id: D0700056-002DL Client Smp ID: BLD120-MW-6DL
Inj Date : 19-JAN-2007 08:29
Operator : X Inst ID: MSK.i
Smp Info : D0700056-002DL
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 6
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

1/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.683	9.673	(1.000)	974000	10.0000	
* 2	Chlorobenzene-d5	117	13.029	13.020	(1.000)	653611	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.618	15.593	(1.000)	263419	10.0000	
$ 4	Dibromofluoromethane	113	8.880	8.870	(0.917)	329814	10.5066	10.5
$ 5	1,2-Dichloroethane-d4	65	9.296	9.287	(0.960)	335284	11.6101	11.6
$ 6	Toluene-d8	98	11.438	11.414	(0.878)	858821	10.1280	10.1
$ 7	Bromofluorobenzene	174	14.294	14.284	(0.915)	236613	9.92770	9.93
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	4.046	4.036	(0.418)	7461	0.28327	28.3(a)
12	Bromomethane	94	4.655	4.646	(0.481)	1909	0.72262	~~72.3(aQ)~~
13	Chloroethane	64	4.983	4.810	(0.515)	2965	0.23359	~~23.4(a)~~
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	6.054	6.044	(0.625)	9318	0.39570	39.6(aQ)
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	7.095	7.085	(0.733)	32666	1.12021	112
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

1/19/07

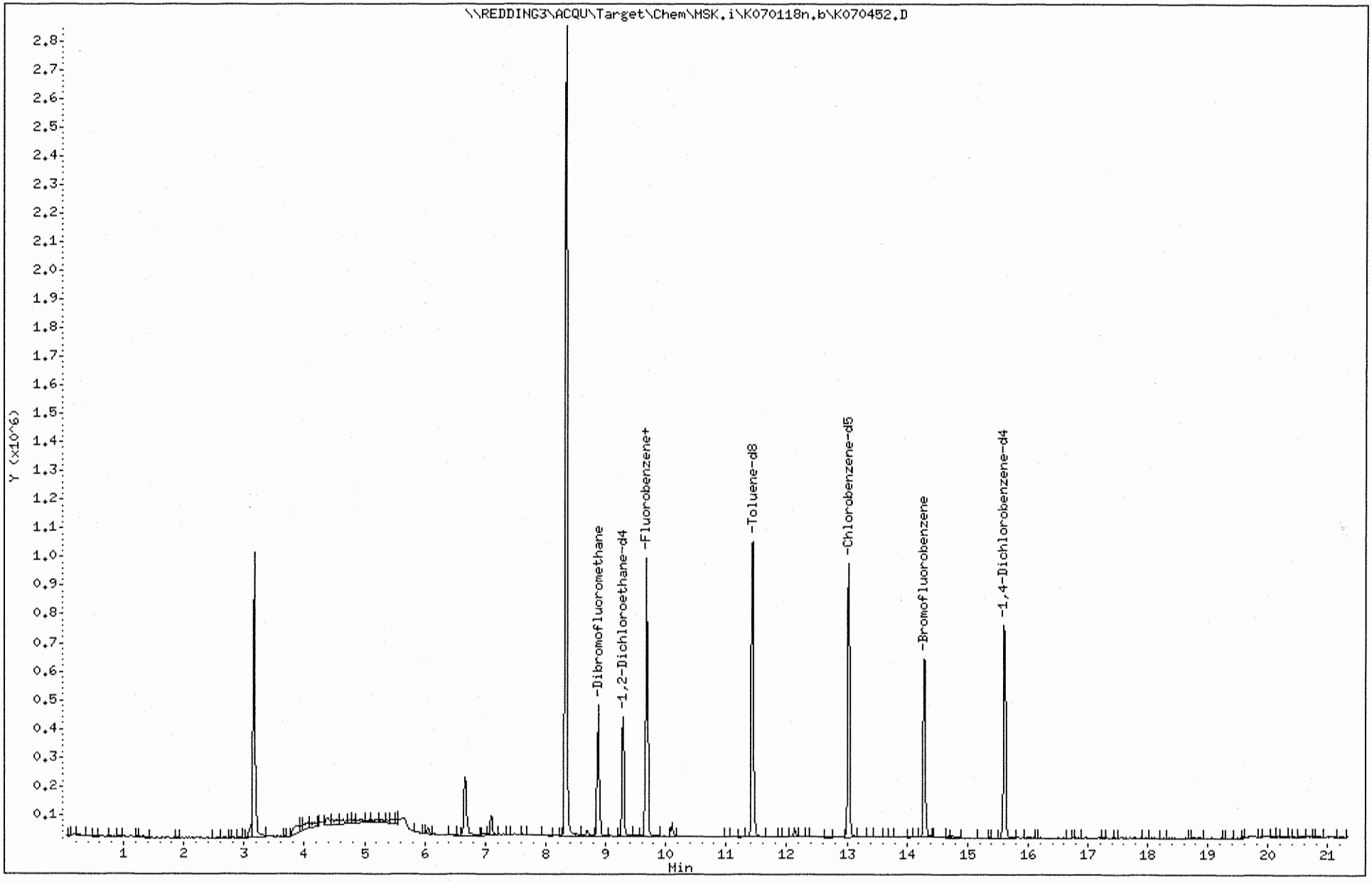
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.344	8.335	(0.862)	1414939	44.2010	4420
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.686	8.677	(0.897)	11298	0.21760	21.8(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.683	9.361	(1.000)	14012	0.38509	38.5(a)
45	Trichloroethene	95	10.099	10.090	(1.043)	19880	0.65496	65.5
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	12.137	12.128	(0.931)	10293	0.42151	42.2(a)
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D
Date : 19-JAN-2007 08:29
Client ID: BLD120-MW-6DL
Sample Info: D0700056-002DL
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D

Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

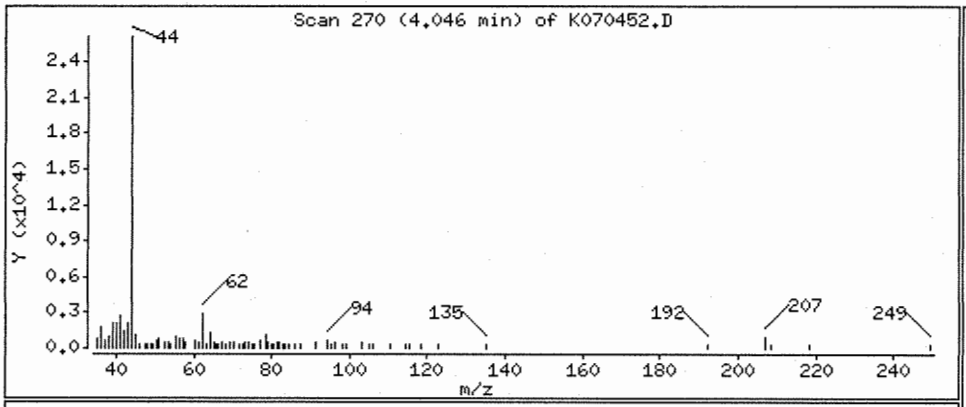
Operator: X

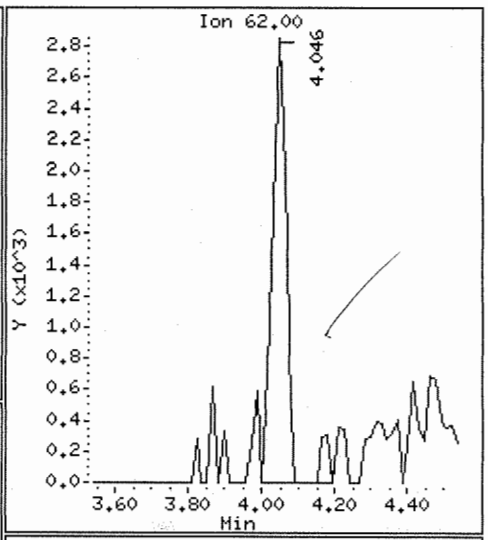
Column phase: DB-624

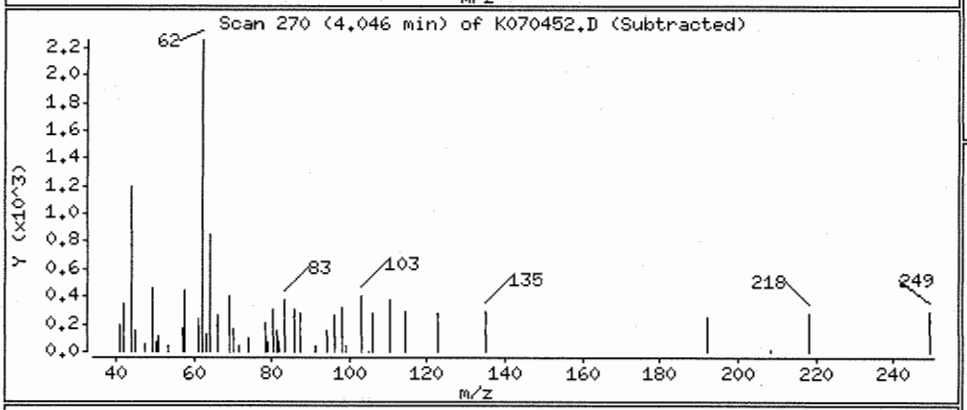
Column diameter: 0.32

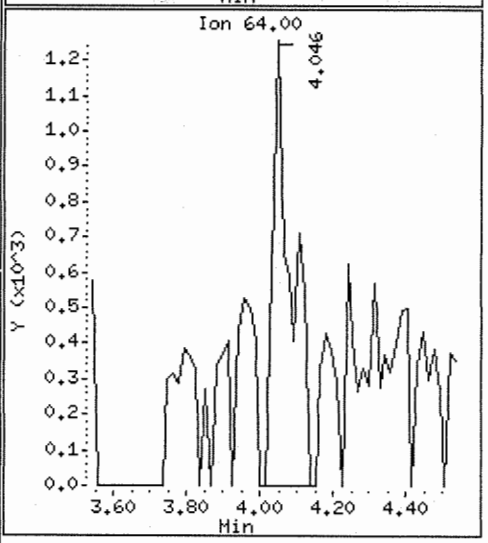
11 Vinyl chloride

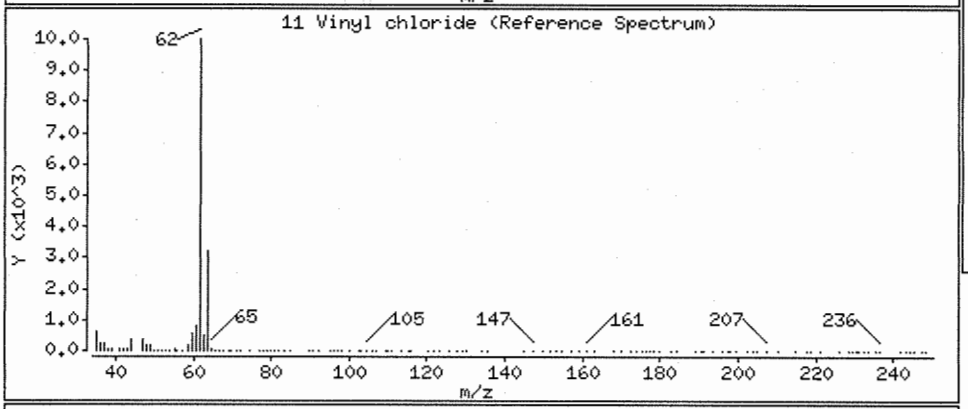
Concentration: 28.3 ug/L

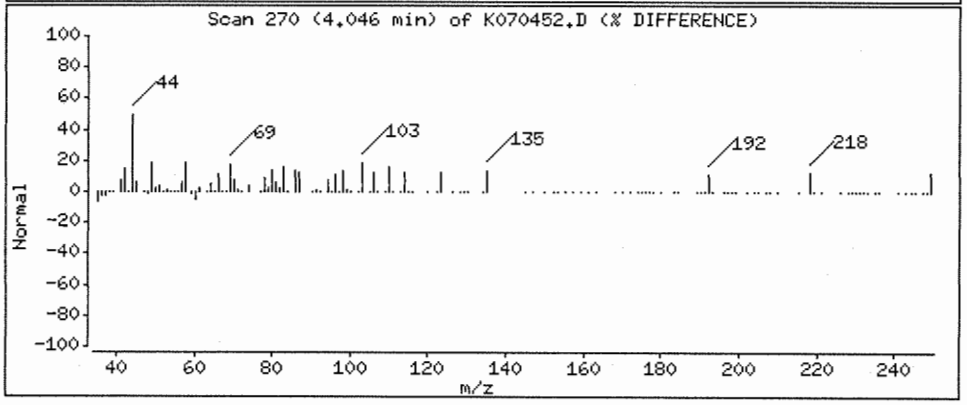












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D

Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

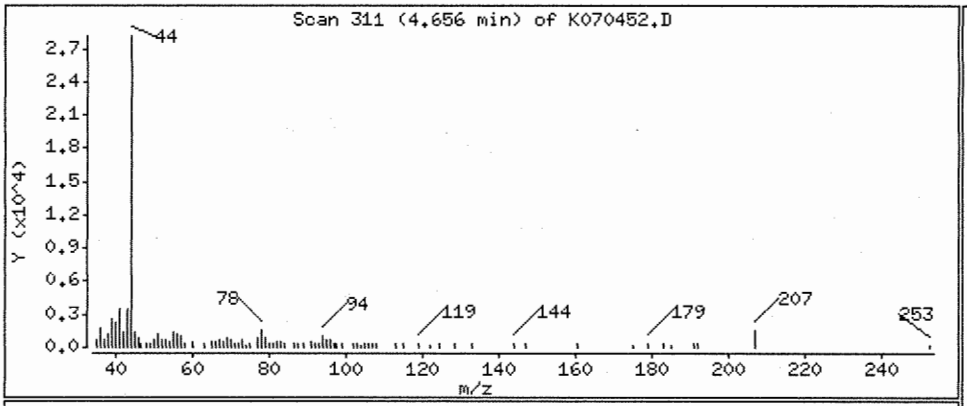
Operator: X

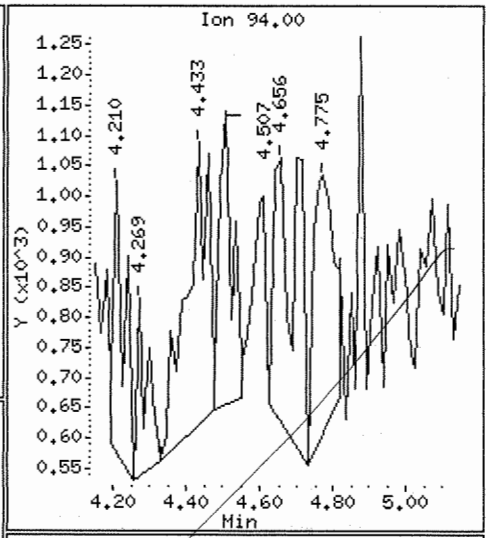
Column phase: DB-624

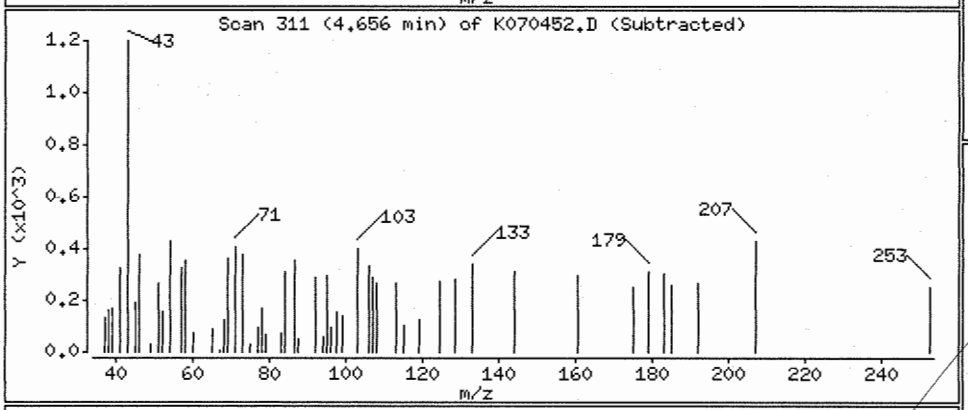
Column diameter: 0.32

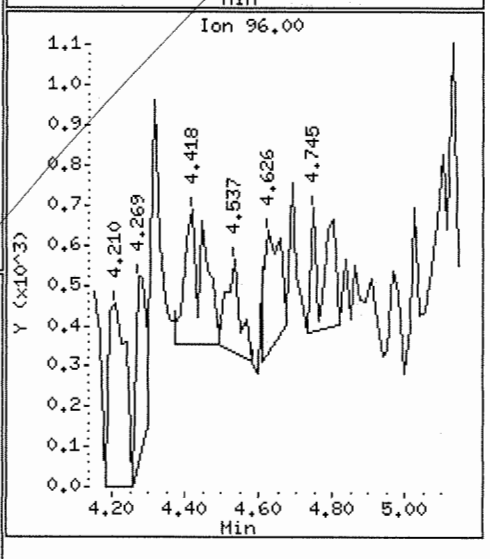
12 Bromomethane

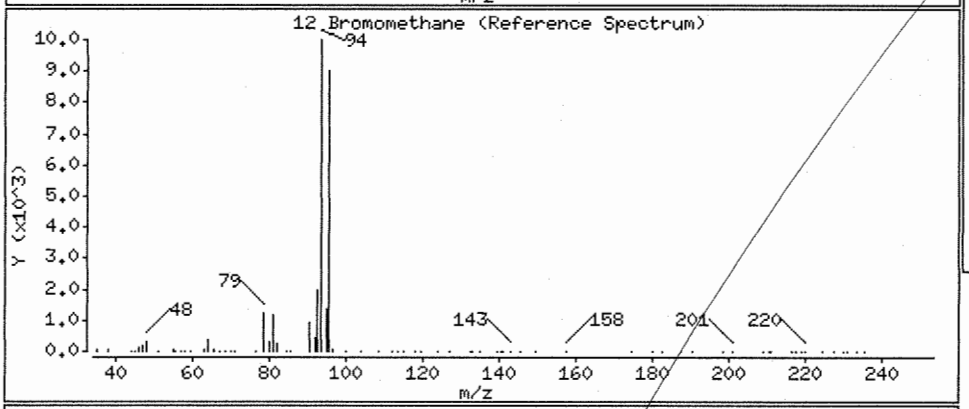
Concentration: 72.3 ug/L

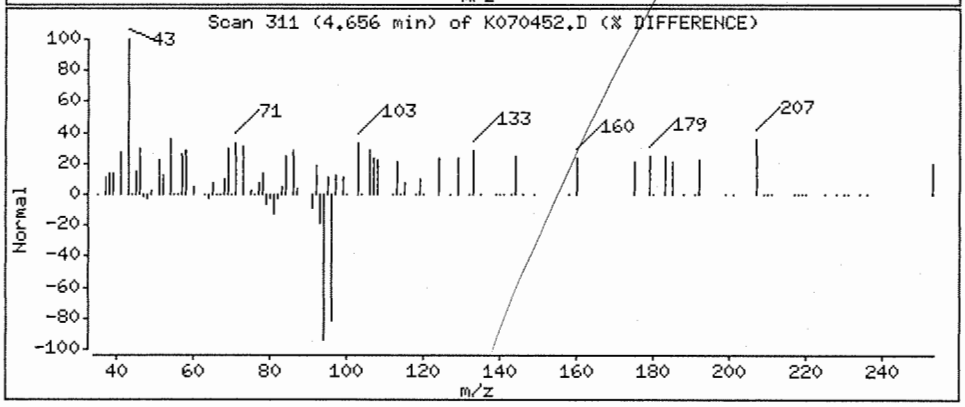












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D

Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

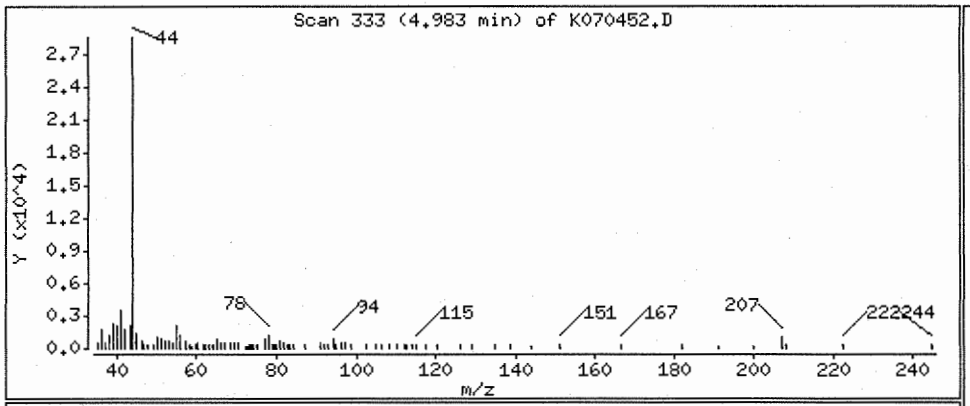
Operator: X

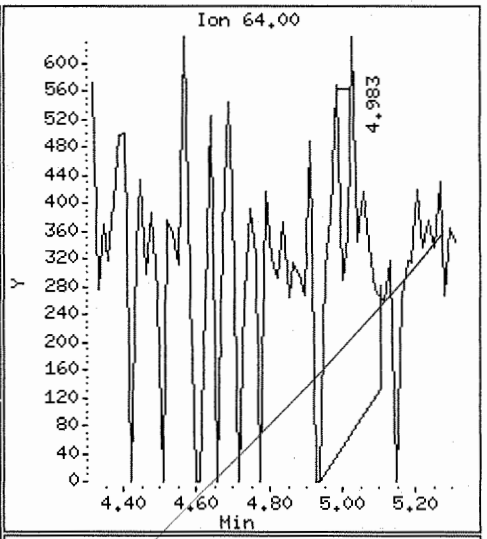
Column phase: DB-624

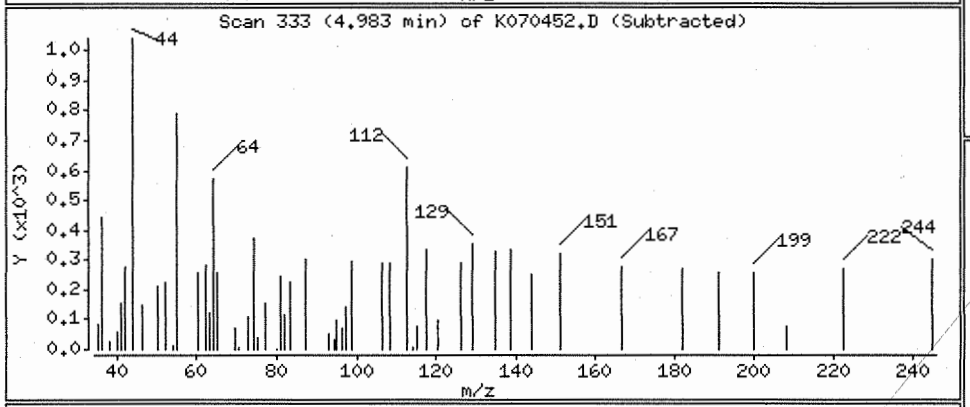
Column diameter: 0.32

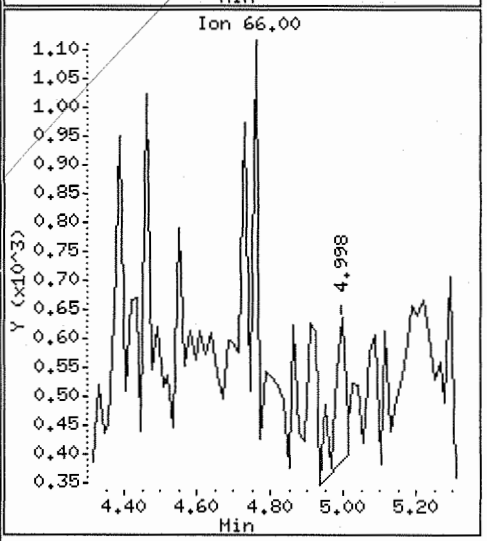
13 Chloroethane

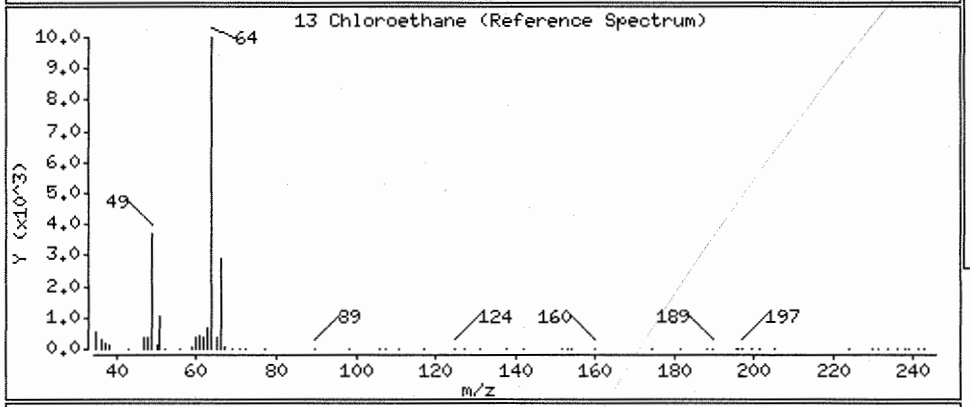
Concentration: 23.4 ug/L

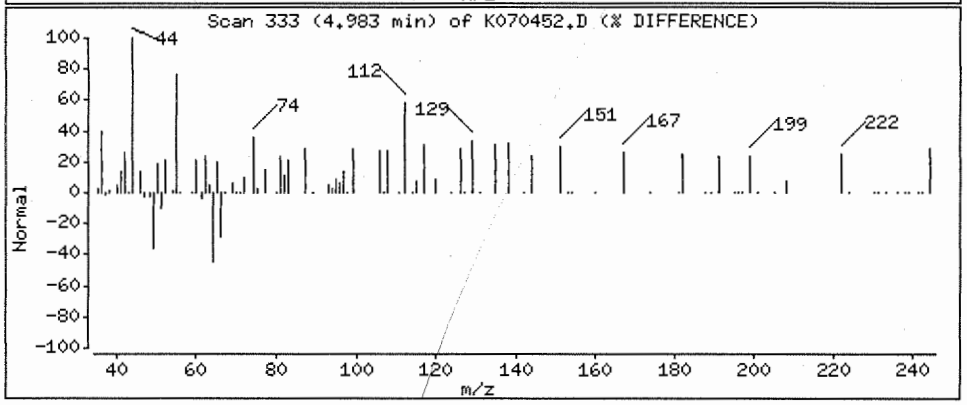












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D

Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

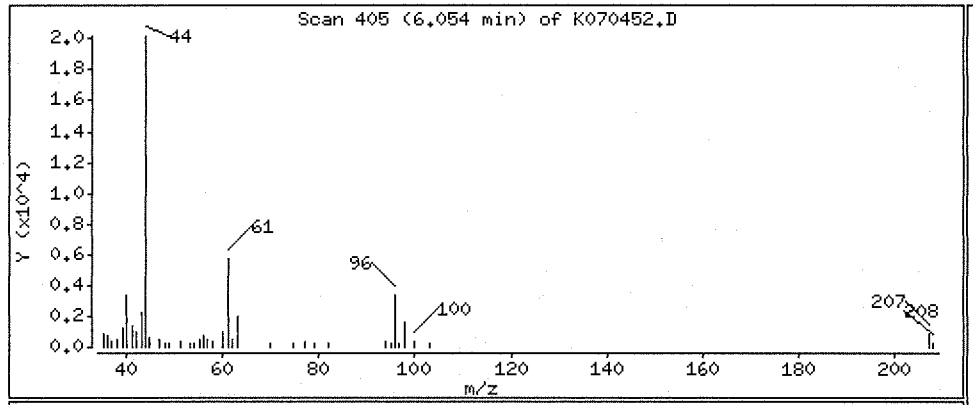
Operator: X

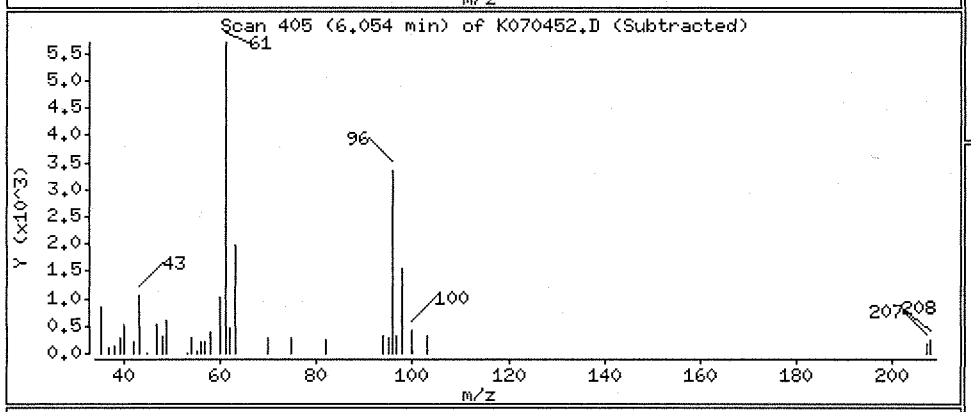
Column phase: DB-624

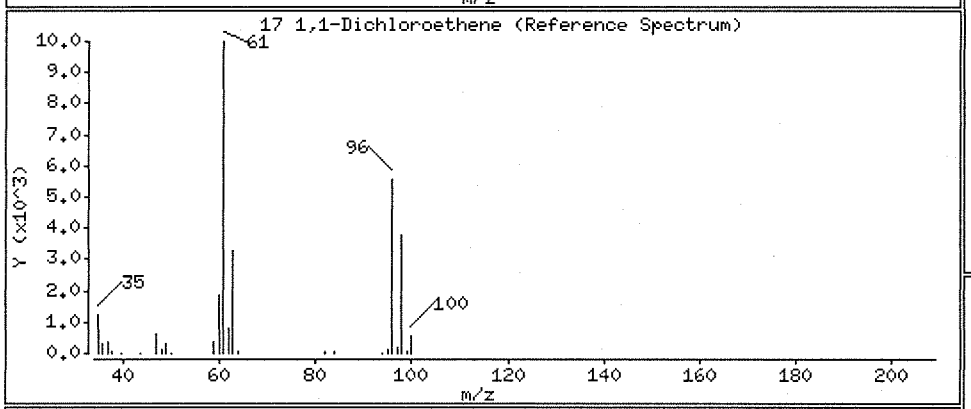
Column diameter: 0.32

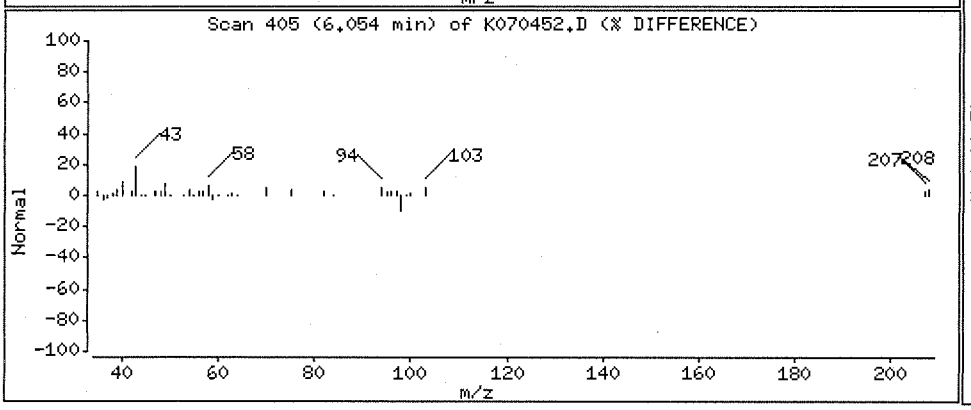
17 1,1-Dichloroethene

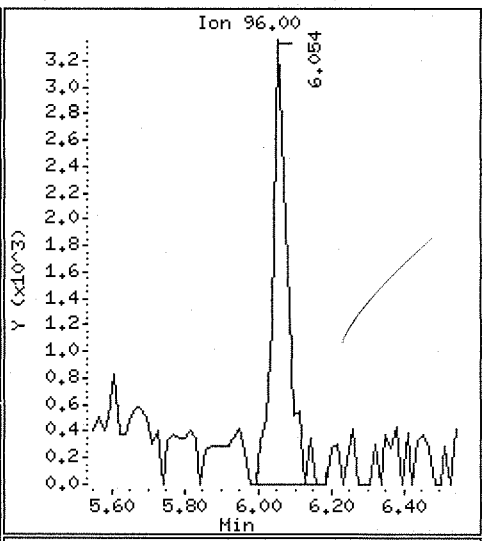
Concentration: 39.6 ug/L

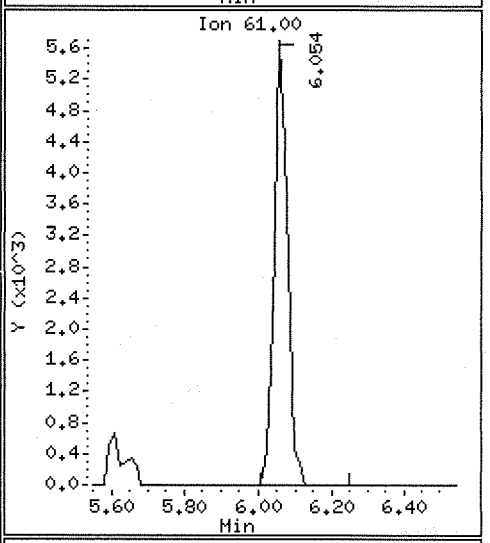


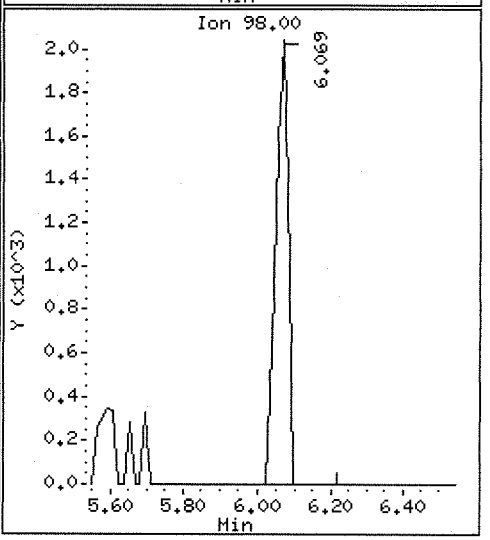












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D

Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

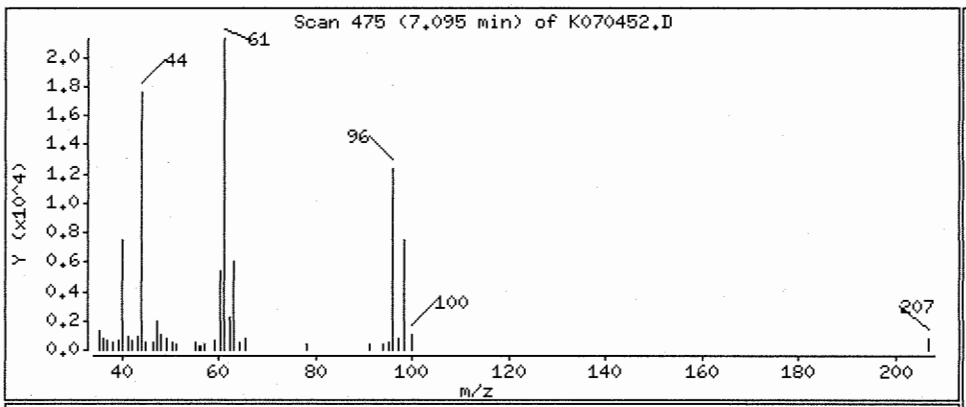
Operator: X

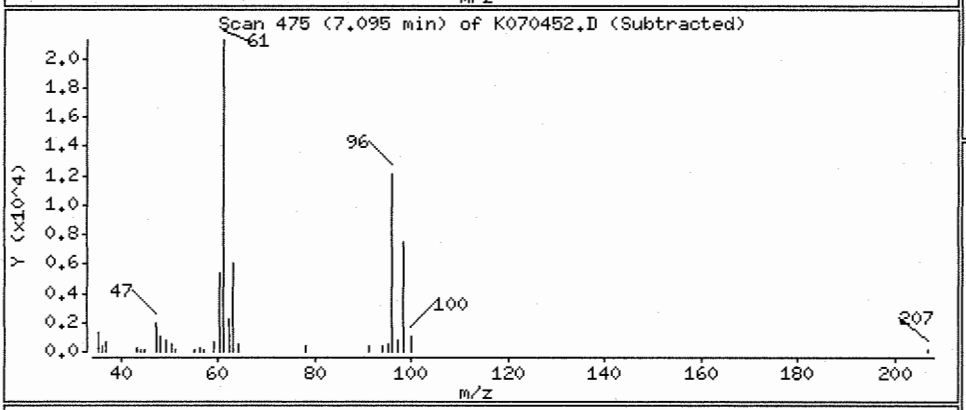
Column phase: DB-624

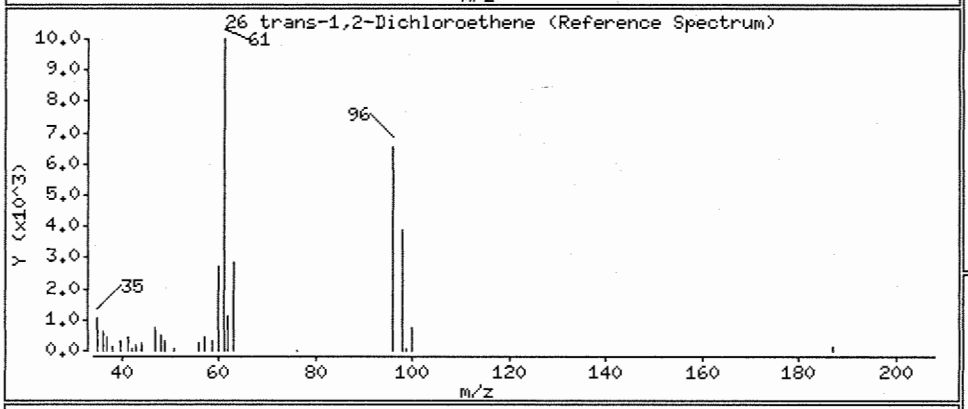
Column diameter: 0.32

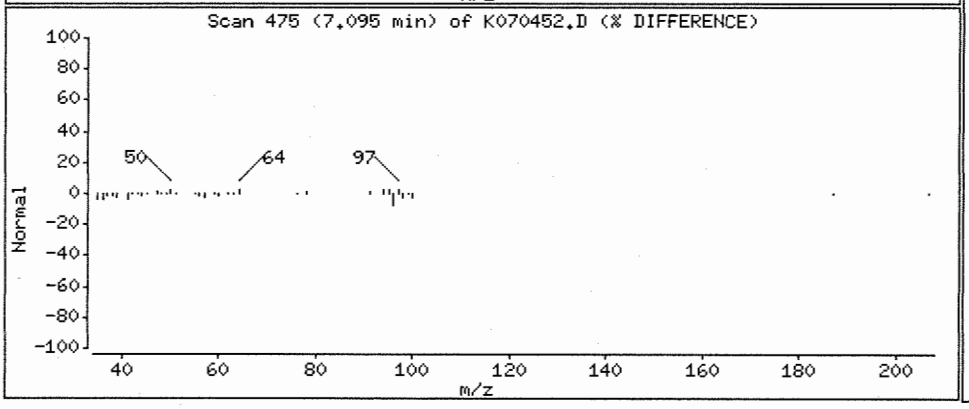
26 trans-1,2-Dichloroethene

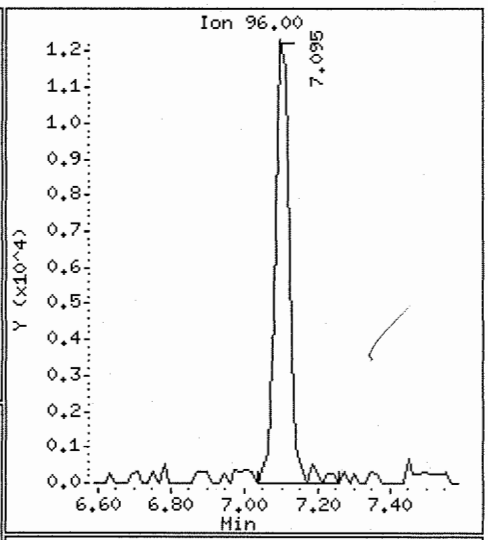
Concentration: 112 ug/L

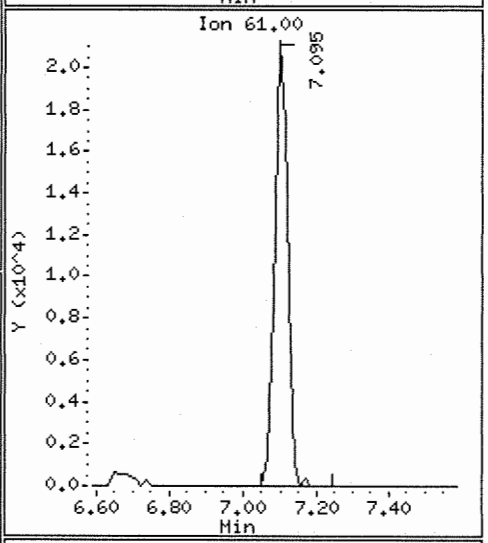


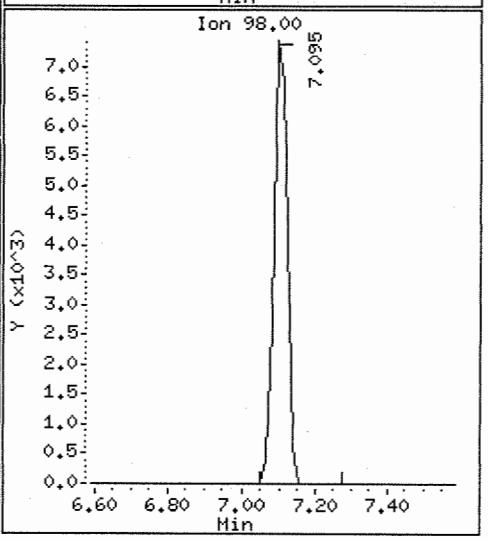












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D

Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

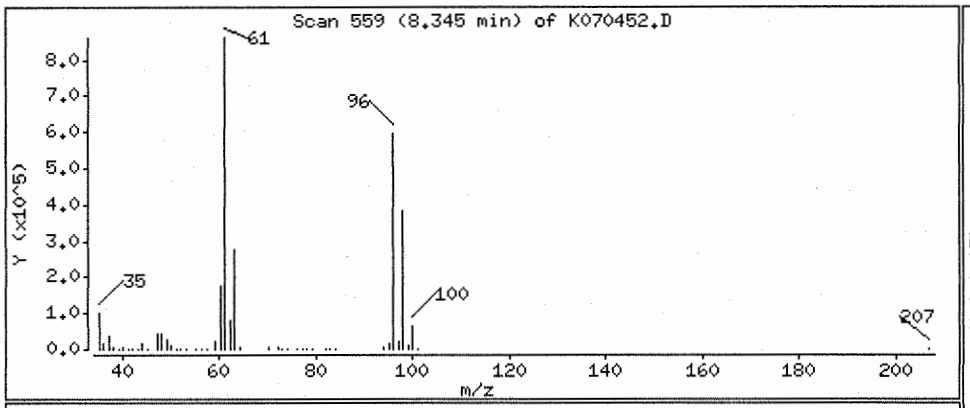
Operator: X

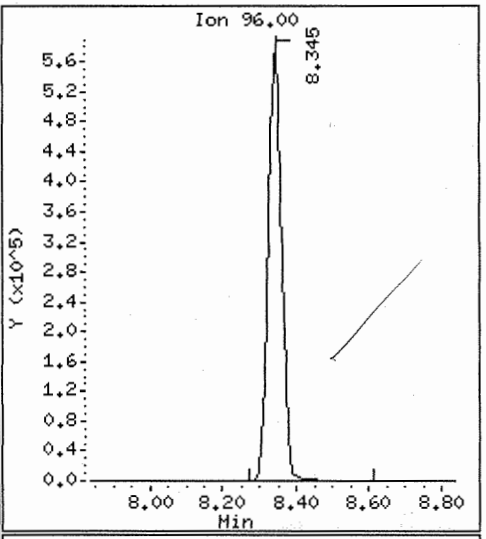
Column phase: DB-624

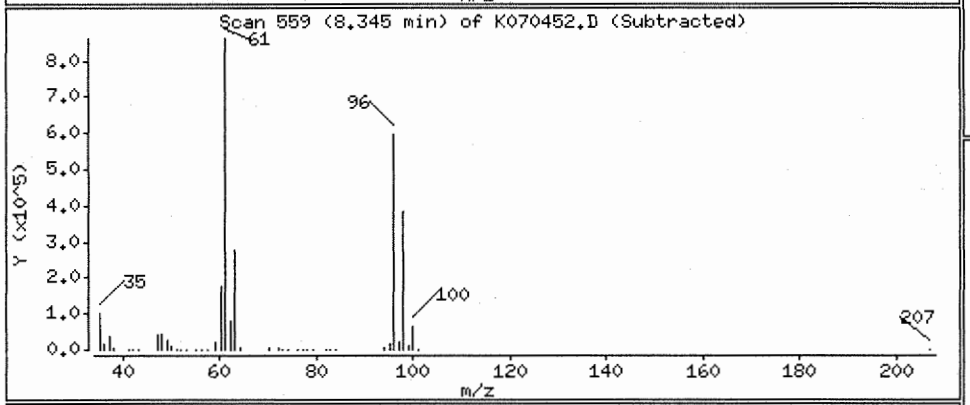
Column diameter: 0.32

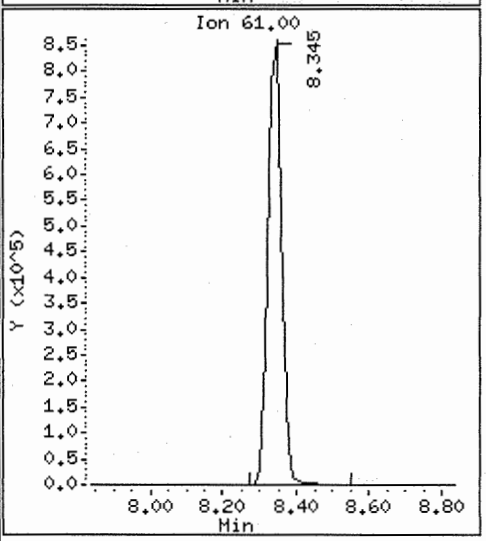
33 cis-1,2-Dichloroethene

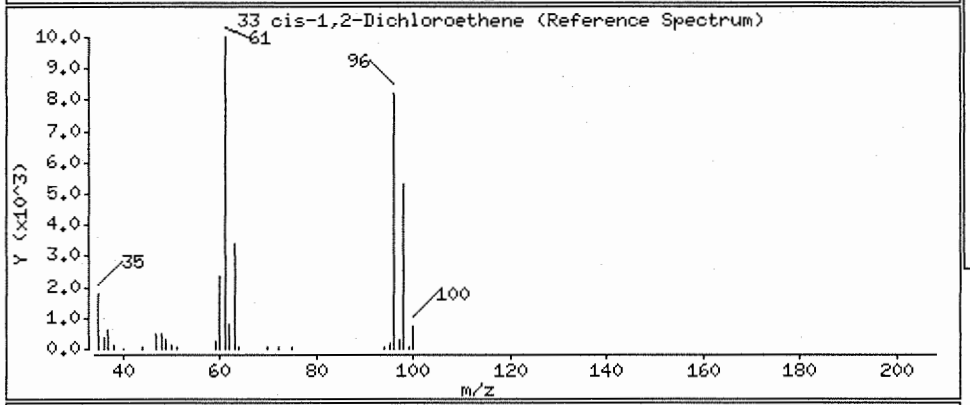
Concentration: 4420 ug/L

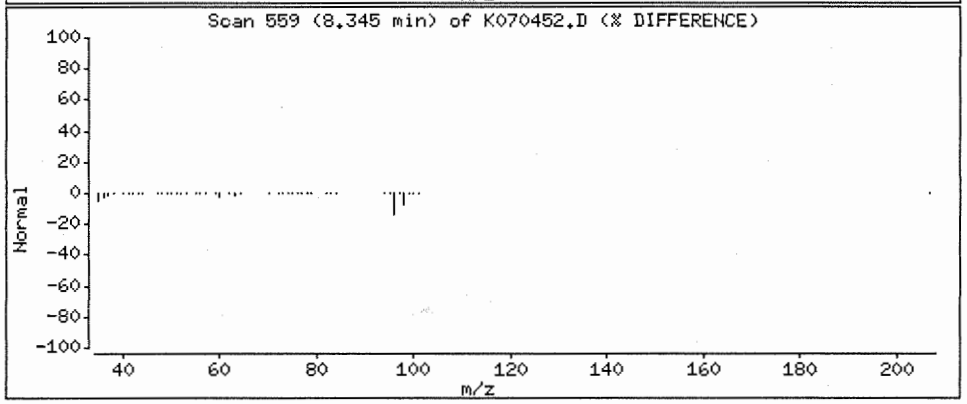












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D

Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

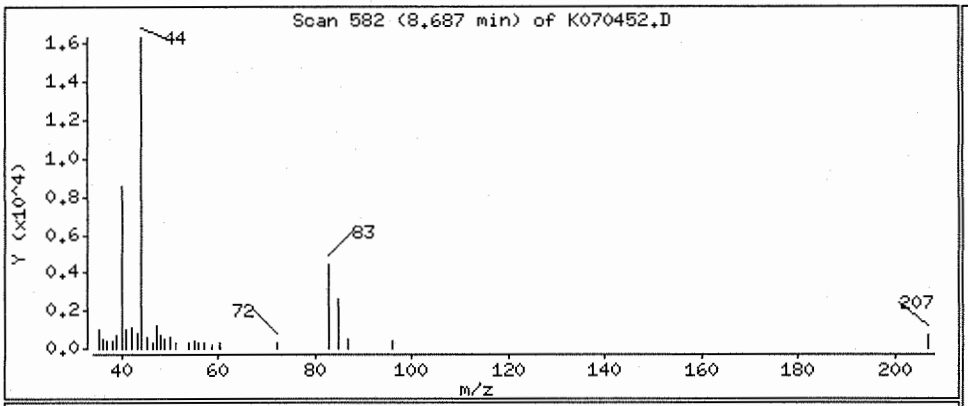
Operator: X

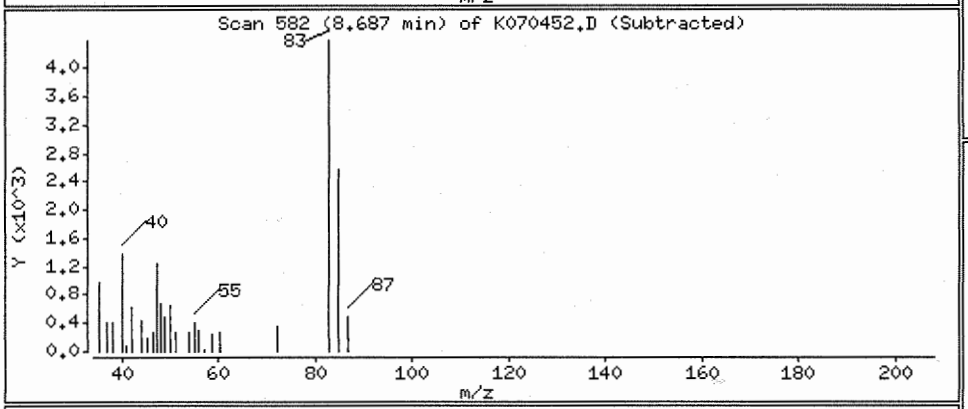
Column phase: DB-624

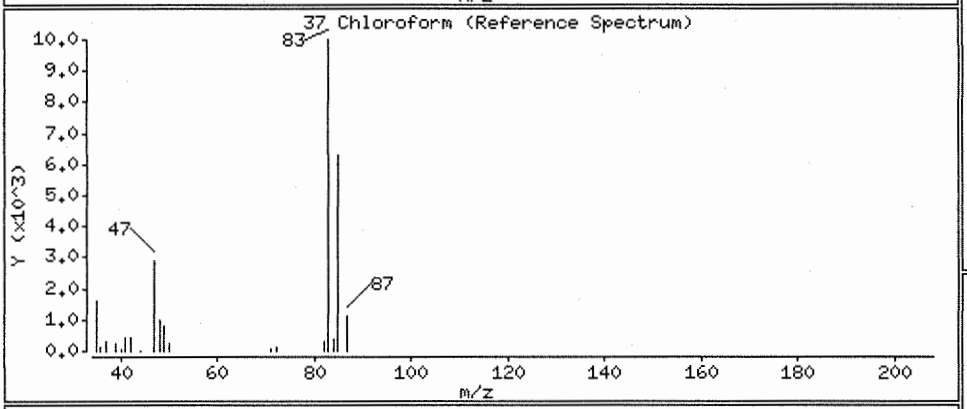
Column diameter: 0.32

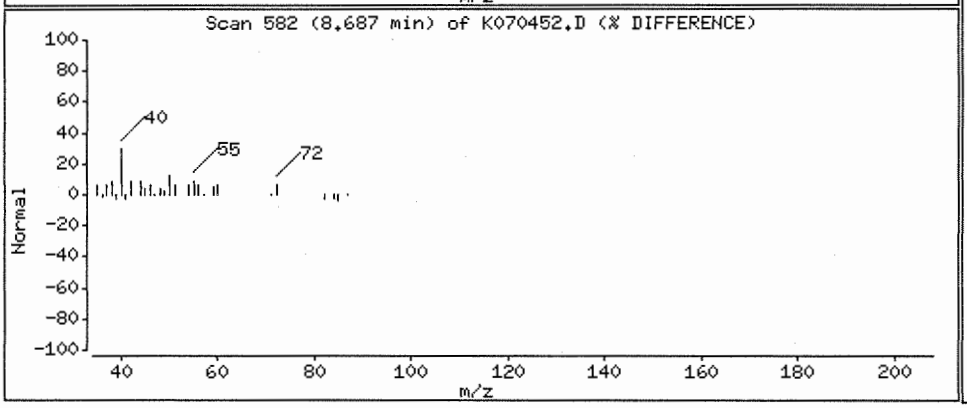
37 Chloroform

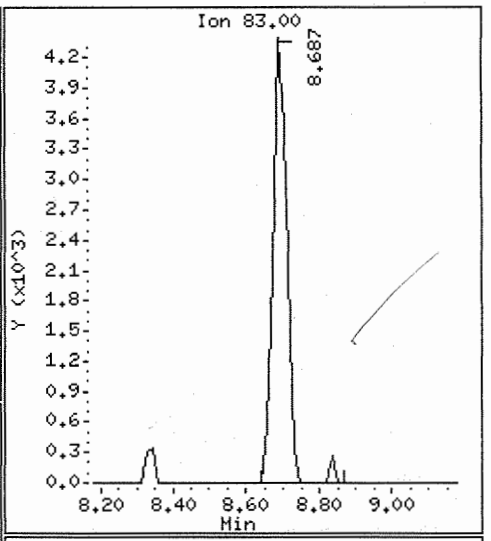
Concentration: 21.8 ug/L

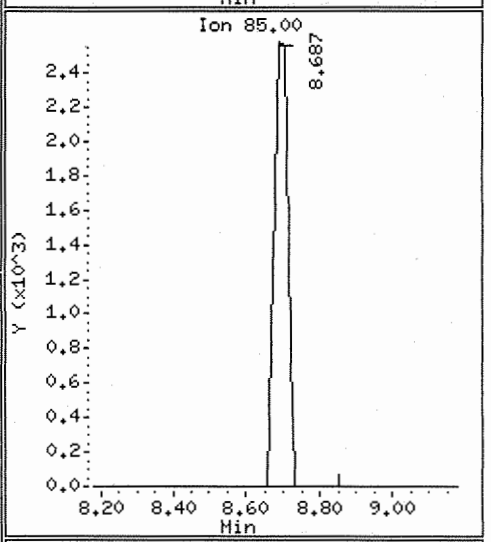


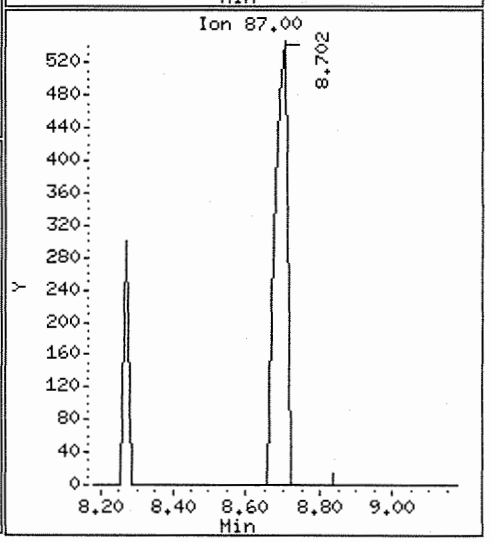












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D

Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

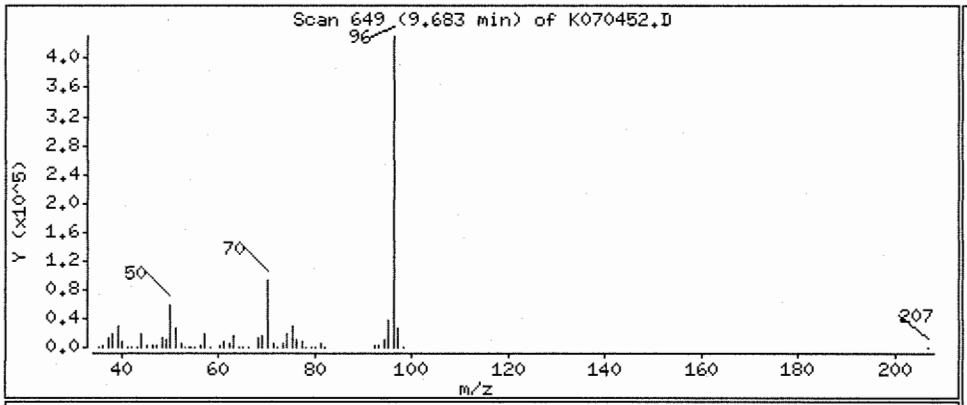
Operator: X

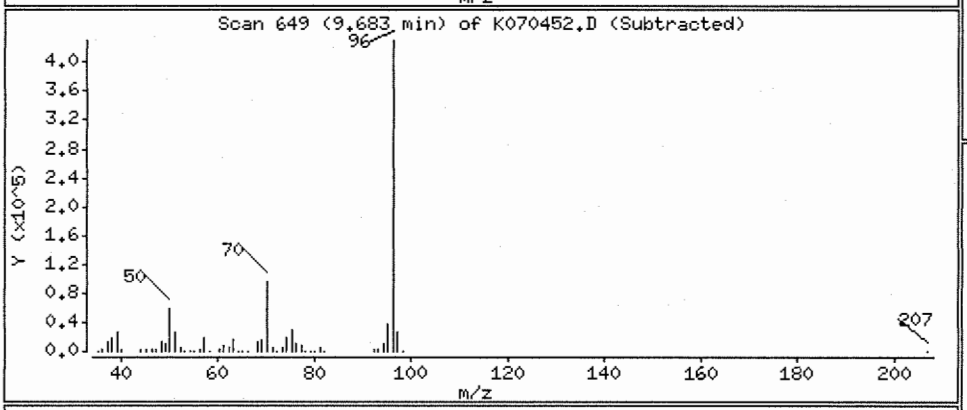
Column phase: DB-624

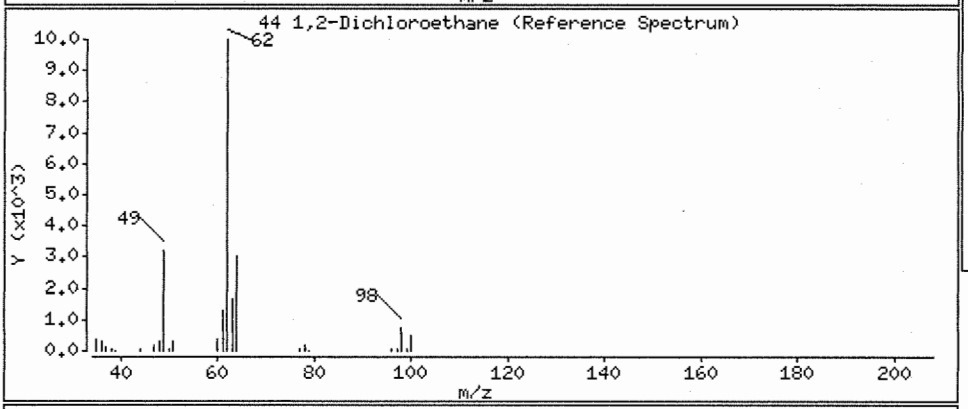
Column diameter: 0.32

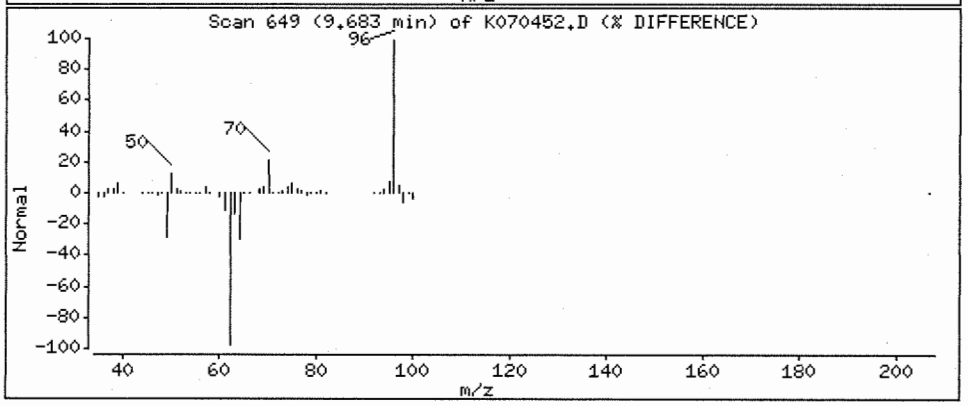
44 1,2-Dichloroethane

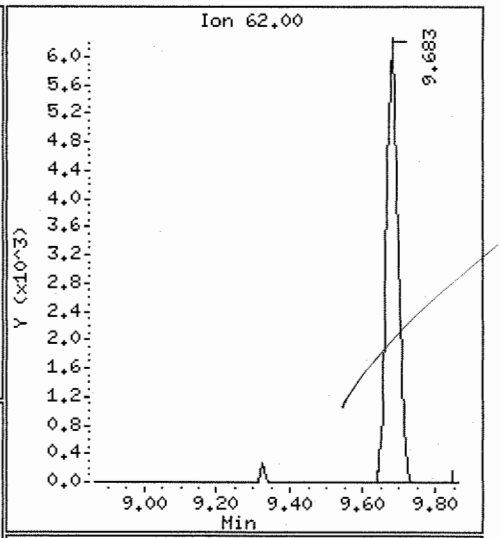
Concentration: 38.5 ug/L

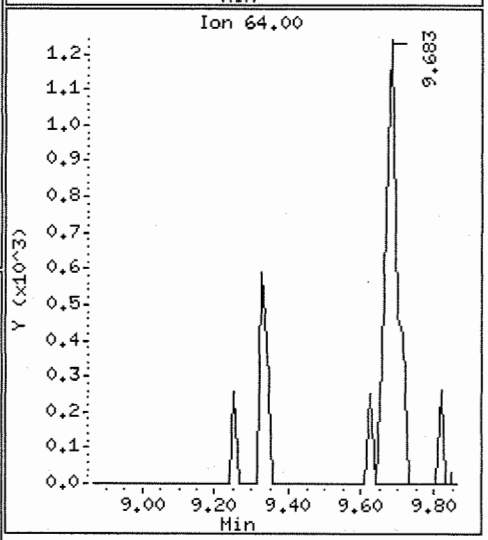












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070452.D

Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

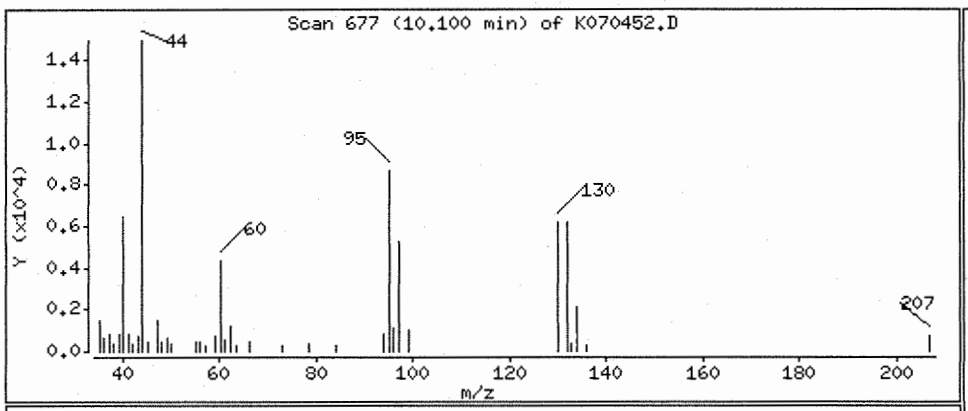
Operator: X

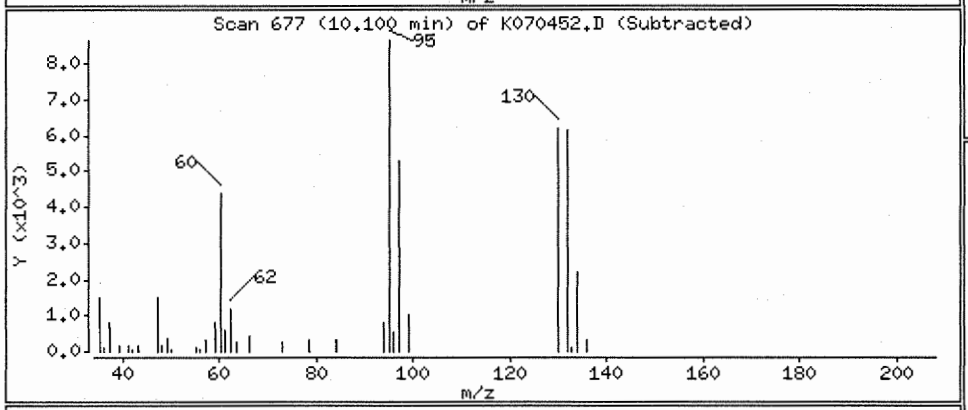
Column phase: DB-624

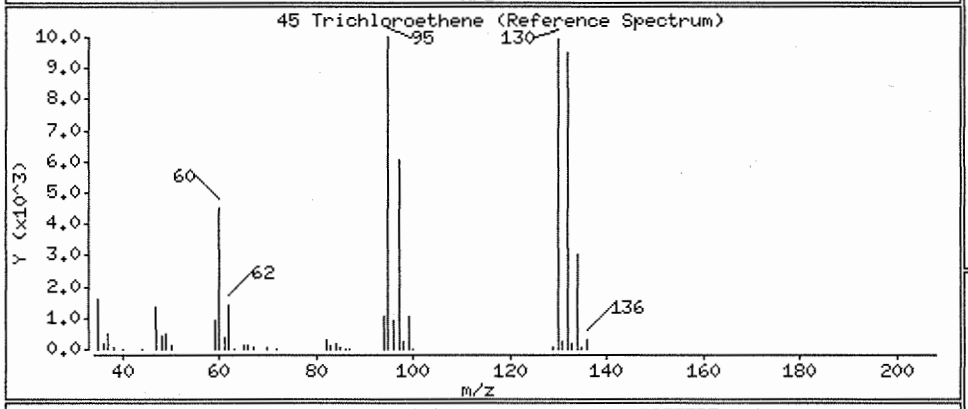
Column diameter: 0.32

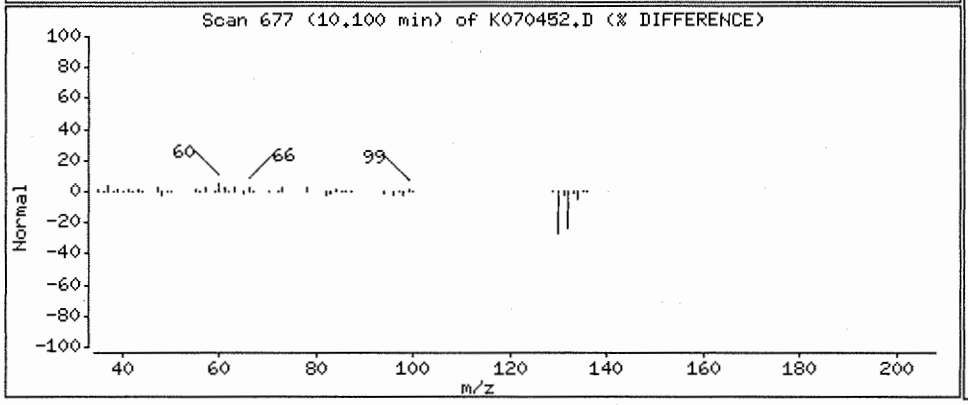
45 Trichloroethene

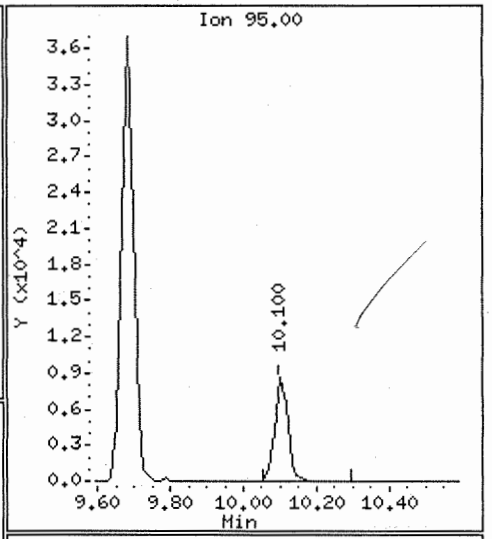
Concentration: 65.5 ug/L

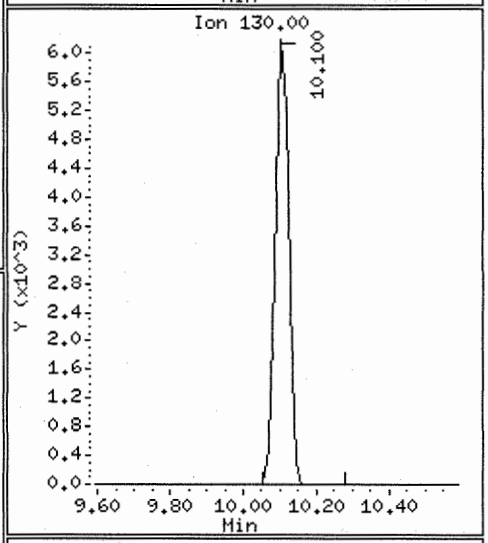


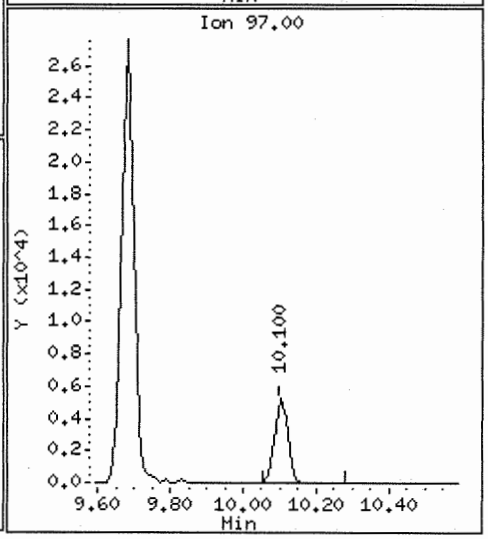












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Date : 19-JAN-2007 08:29

Client ID: BLD120-MW-6DL

Instrument: MSK.i

Sample Info: D0700056-002DL

Purge Volume: 10.0

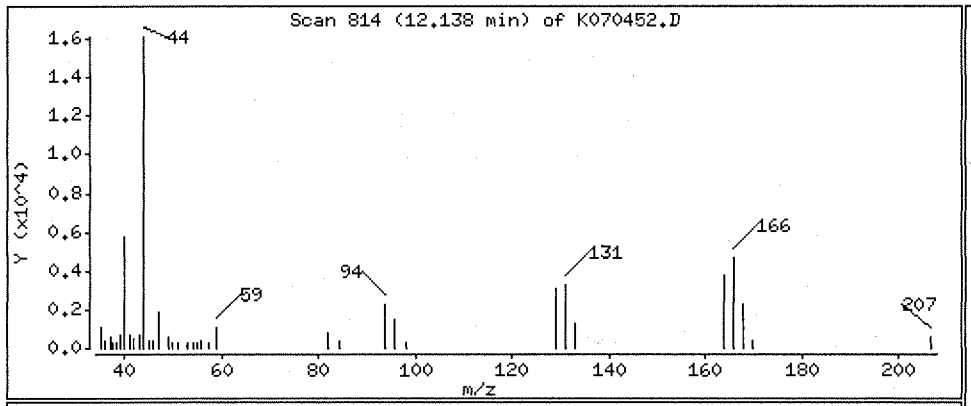
Operator: X

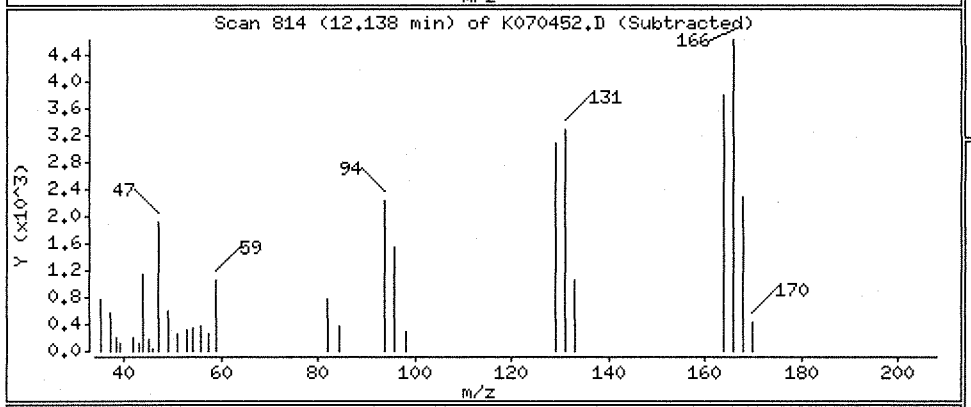
Column phase: DB-624

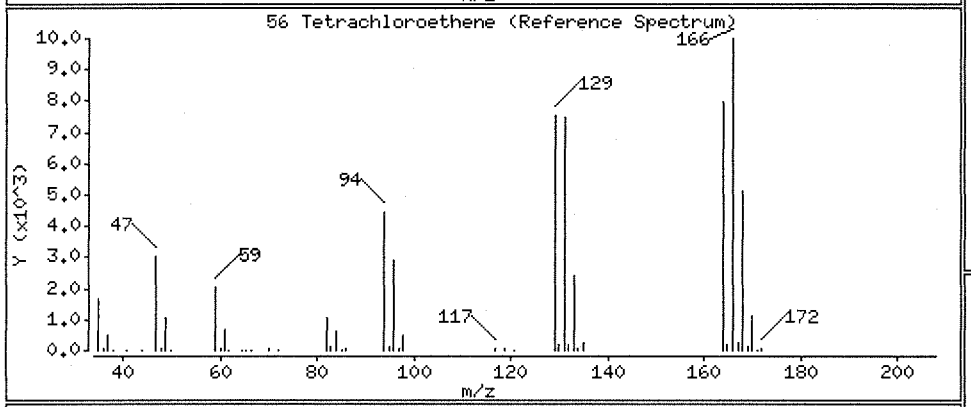
Column diameter: 0.32

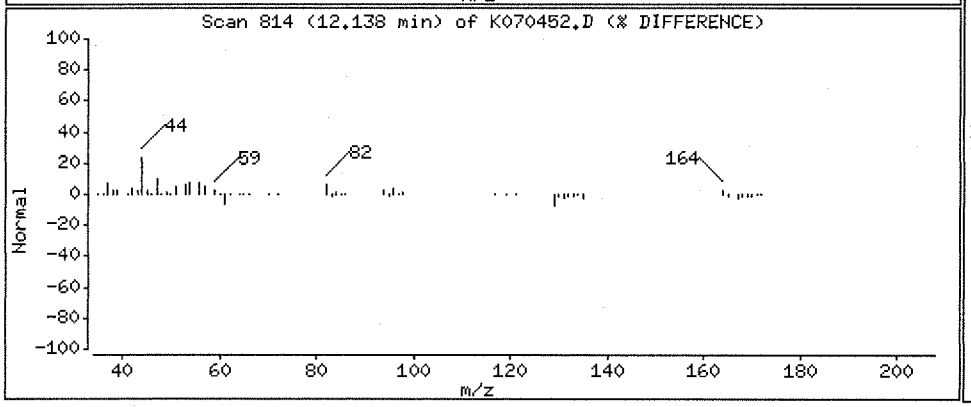
56 Tetrachloroethene

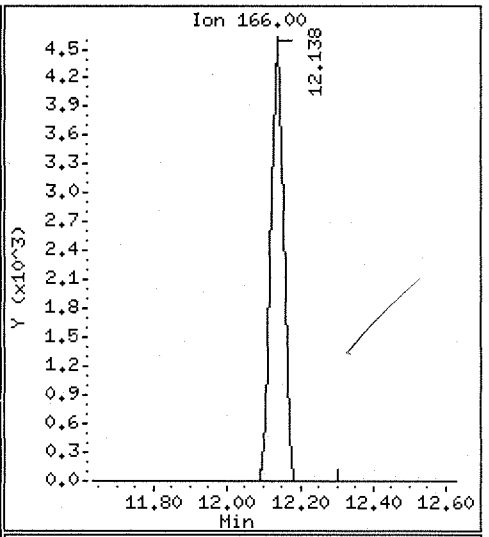
Concentration: 42.2 ug/L

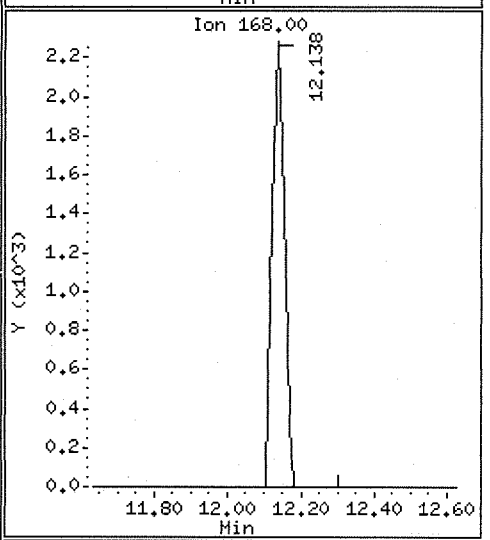


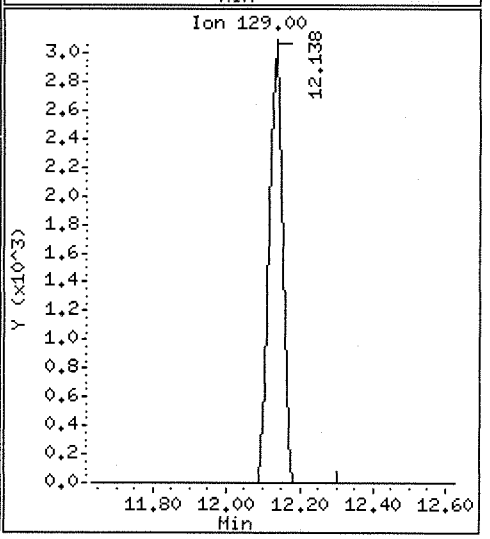












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0700056-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	**1.5**	J	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0700056-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	106	79-135	01/19/2007	
4-Bromofluorobenzene - SS	96	82-124	01/19/2007	
Dibromofluoromethane - SS	99	84-127	01/19/2007	
Toluene-d8 - SS	94	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070436.D
Lab Smp Id: D0700056-003 Client Smp ID: QCEB
Inj Date : 19-JAN-2007 01:25
Operator : X Inst ID: MSK.i
Smp Info : D0700056-003
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

1/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.673	9.673	(1.000)	1272267	10.0000	
* 2	Chlorobenzene-d5	117	13.020	13.020	(1.000)	863578	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.608	15.593	(1.000)	337991	10.0000	
$ 4	Dibromofluoromethane	113	8.870	8.870	(0.917)	404334	9.86086	9.86
$ 5	1,2-Dichloroethane-d4	65	9.287	9.287	(0.960)	401000	10.6303	10.6
$ 6	Toluene-d8	98	11.428	11.414	(0.878)	1048632	9.35969	9.36
$ 7	Bromofluorobenzene	174	14.284	14.284	(0.915)	293737	9.60529	9.60
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.705	4.646	(0.486)	1984	0.70001	0.700(a)
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

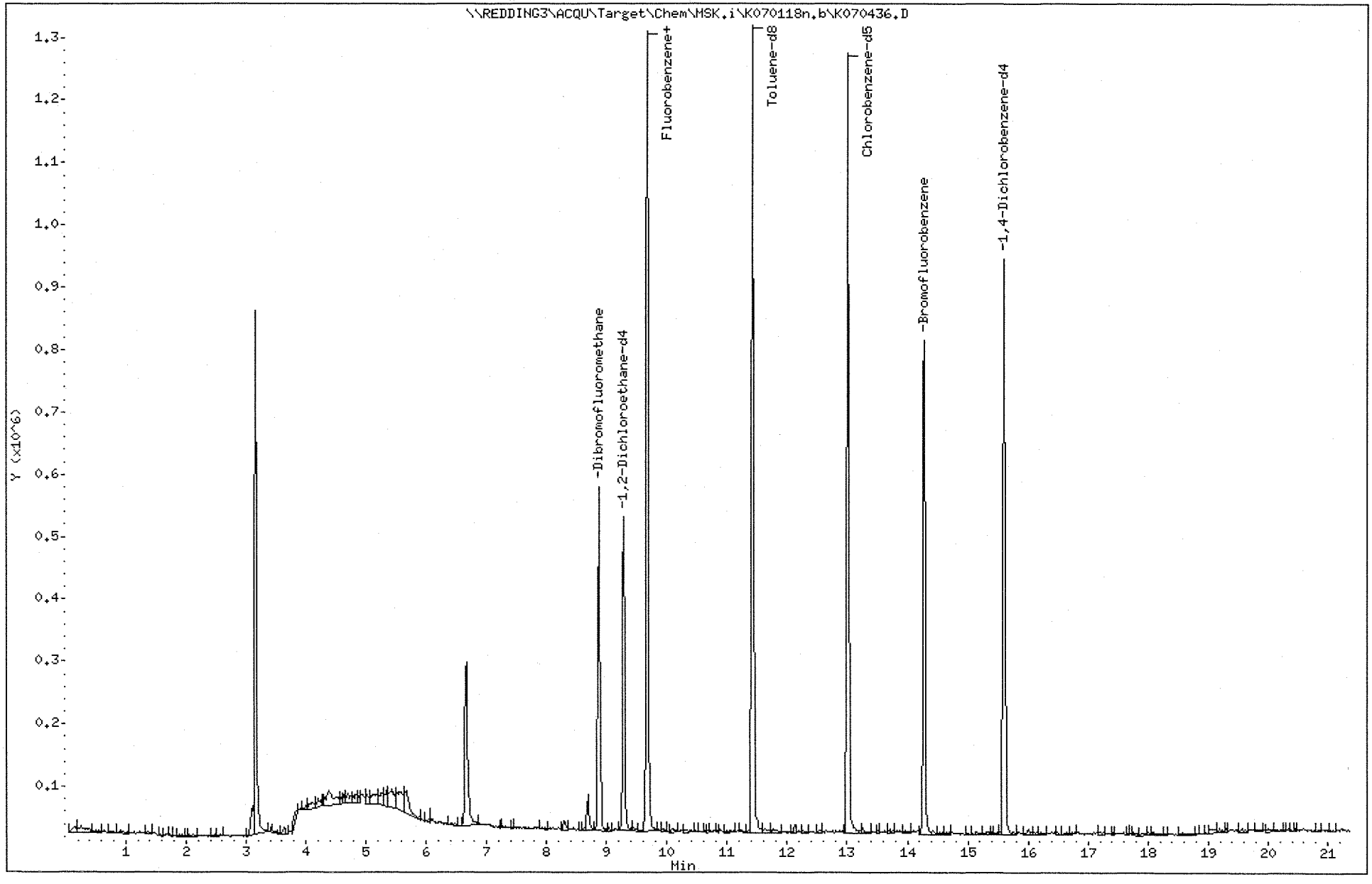
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.305	8.290	(0.859)	21813	1.46492	1.46(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.673	9.361	(1.000)	17999	0.37870	0.378(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070436.D
Date : 19-JAN-2007 01:25
Client ID: QCEB
Sample Info: D0700056-003
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



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Date : 19-JAN-2007 01:25

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0700056-003

Purge Volume: 10.0

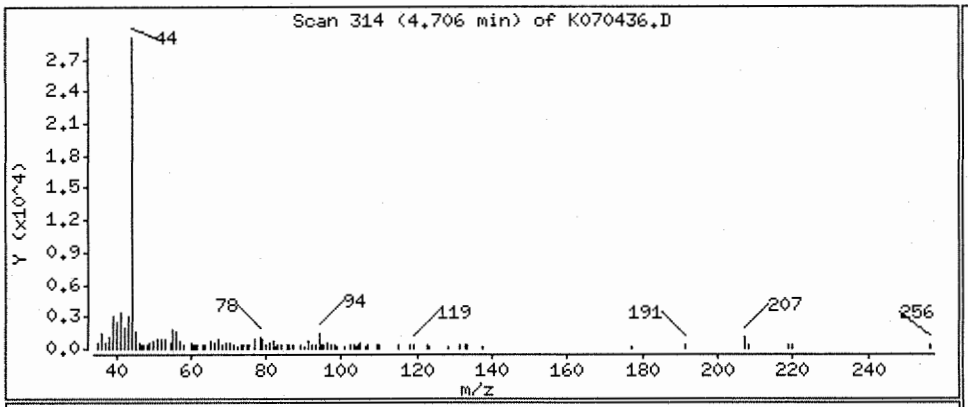
Operator: X

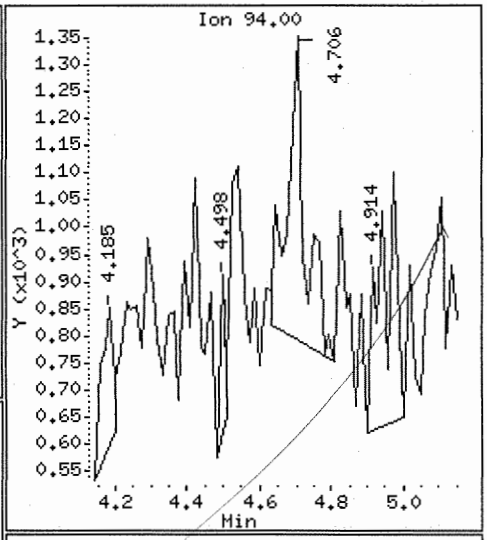
Column phase: DB-624

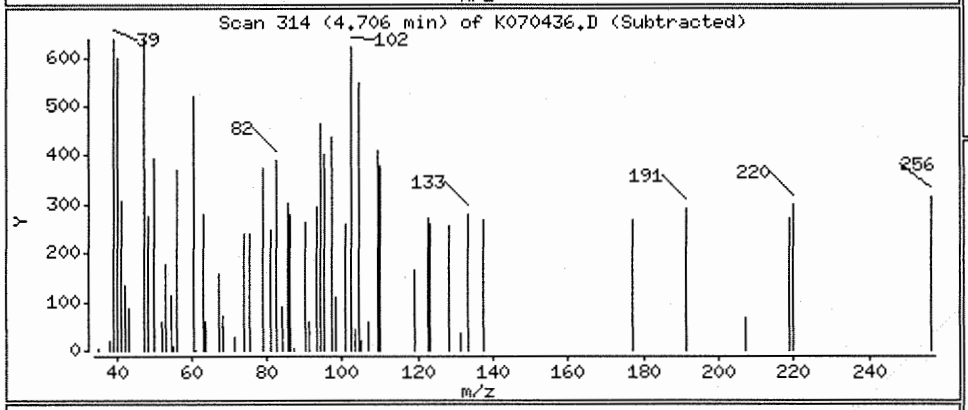
Column diameter: 0.32

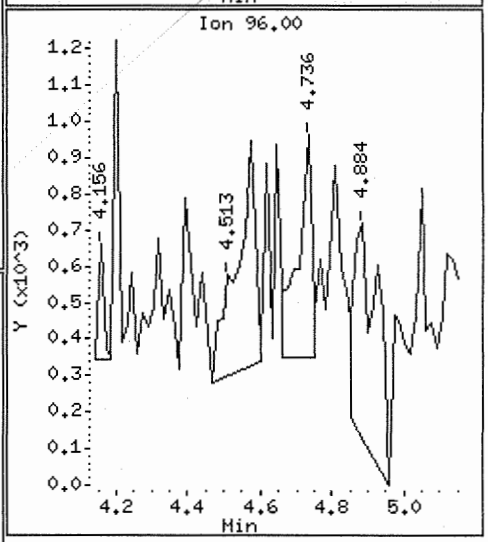
12 Bromomethane

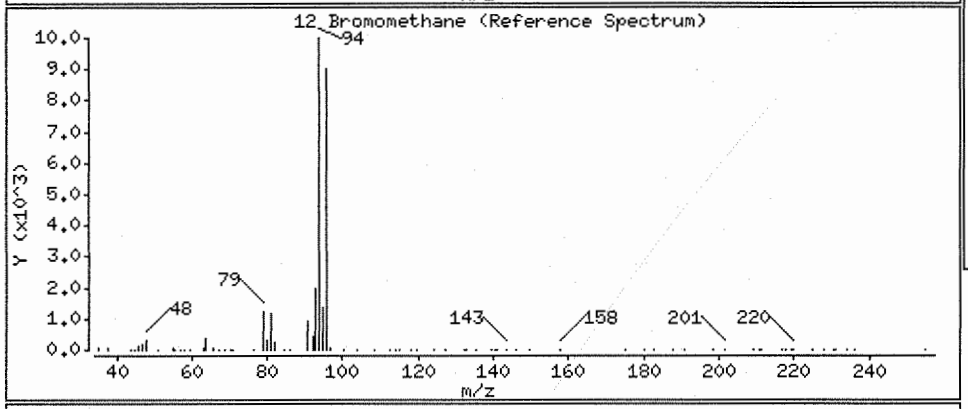
Concentration: 0.700 ug/L

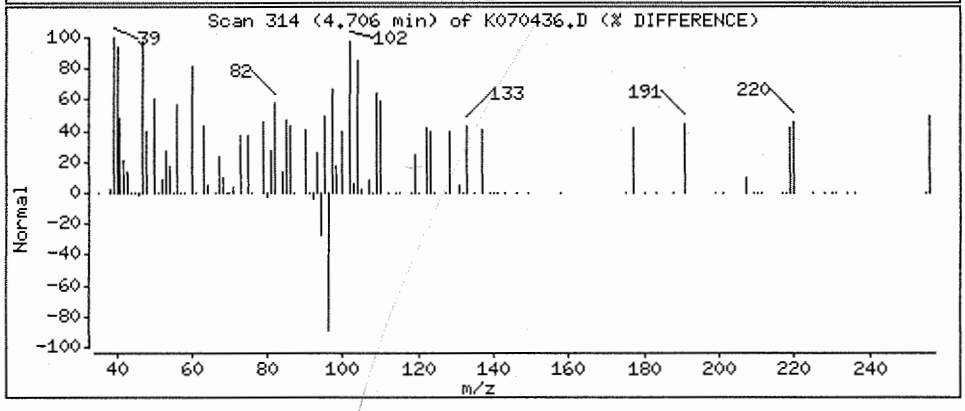












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070436.D

Date : 19-JAN-2007 01:25

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0700056-003

Purge Volume: 10.0

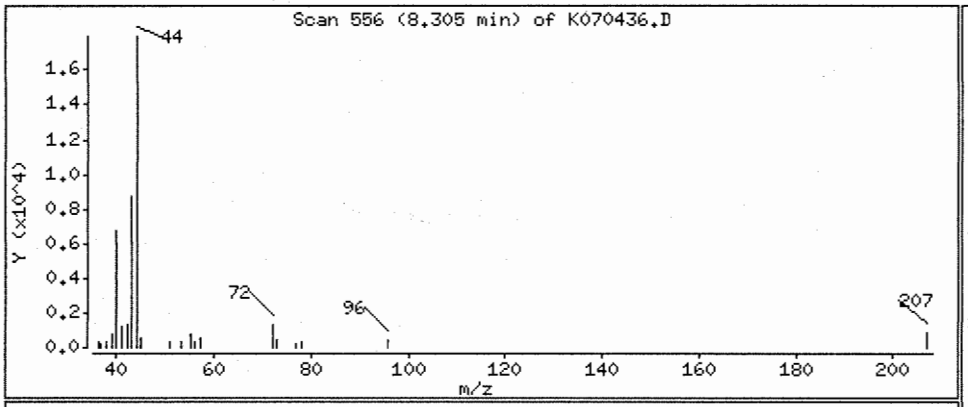
Operator: X

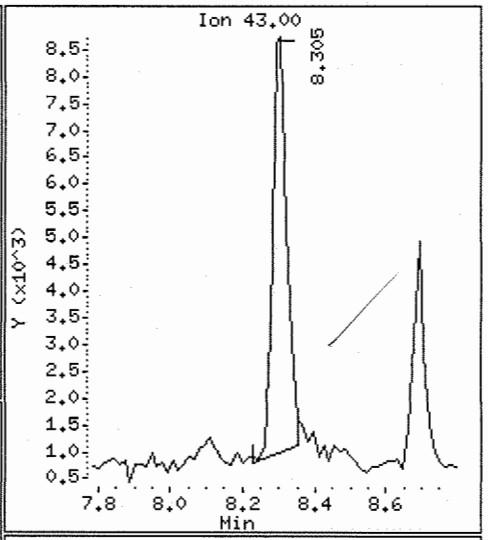
Column phase: DB-624

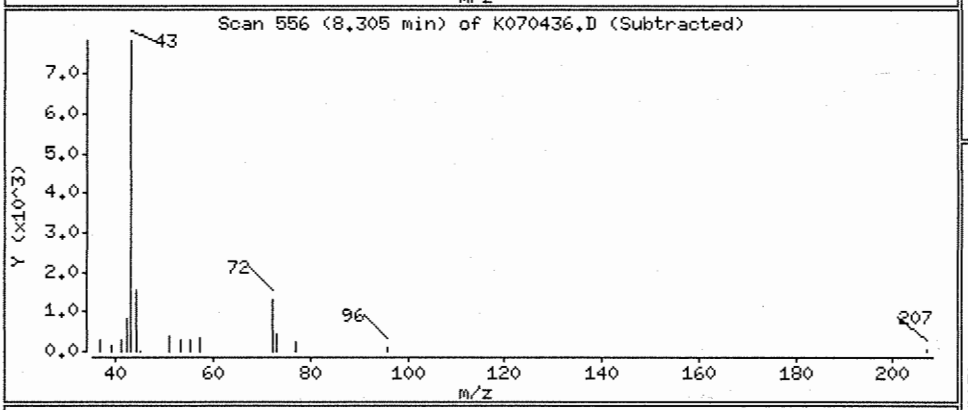
Column diameter: 0.32

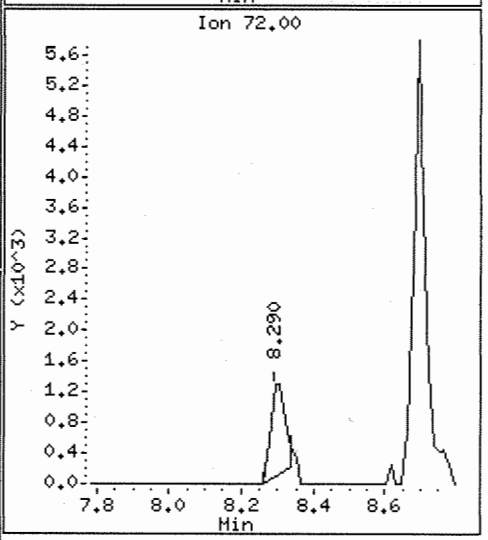
35 2-Butanone

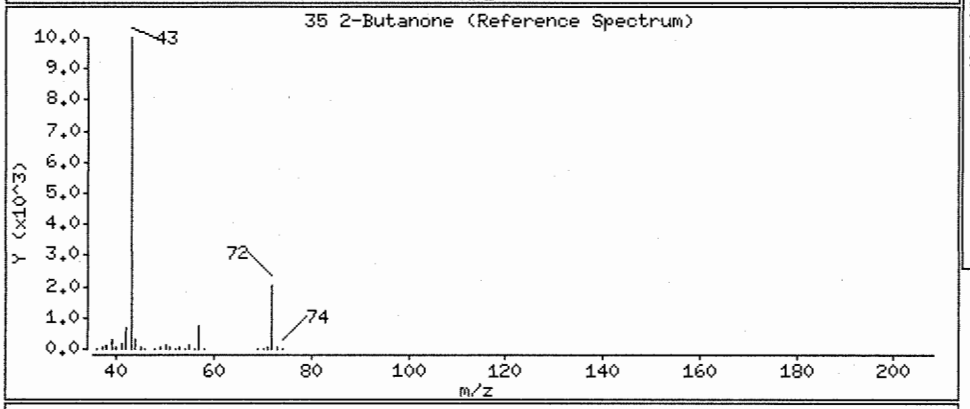
Concentration: 1.46 ug/L

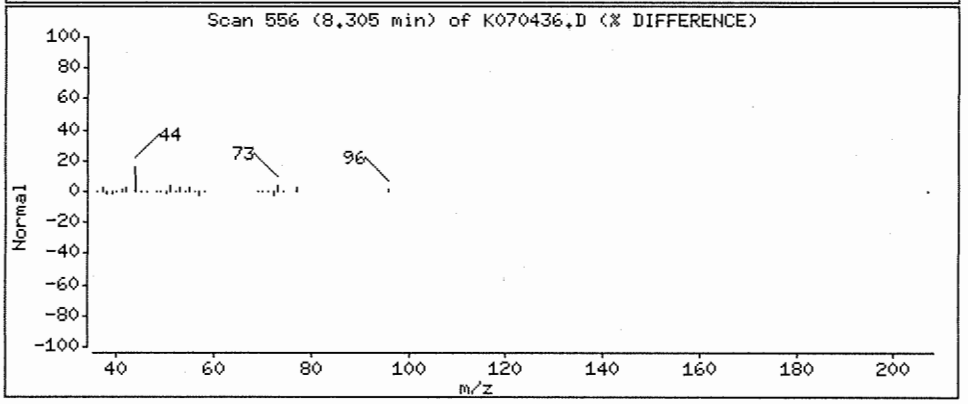












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070436.D

Date : 19-JAN-2007 01:25

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0700056-003

Purge Volume: 10.0

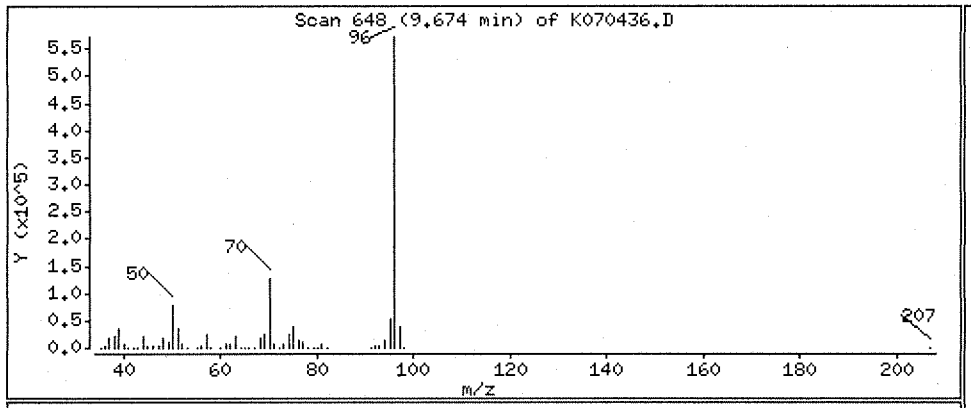
Operator: X

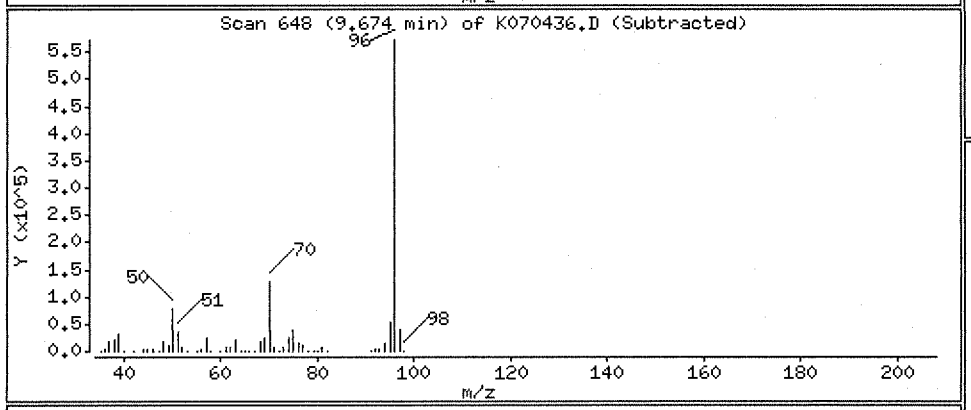
Column phase: DB-624

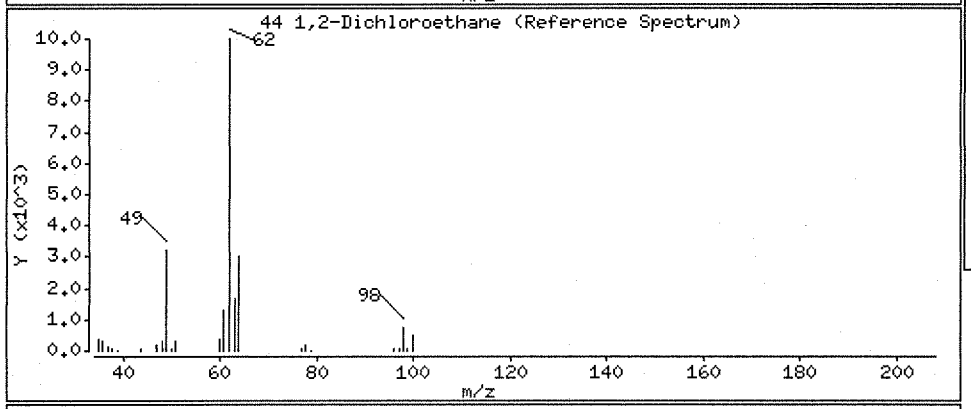
Column diameter: 0.32

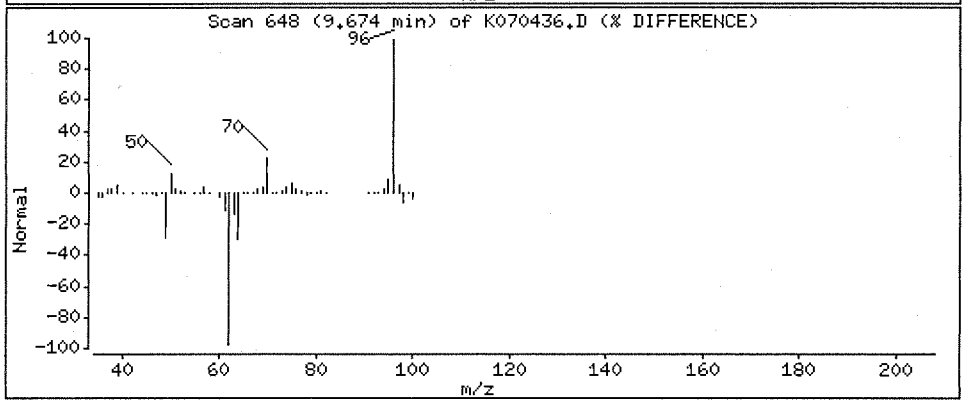
44 1,2-Dichloroethane

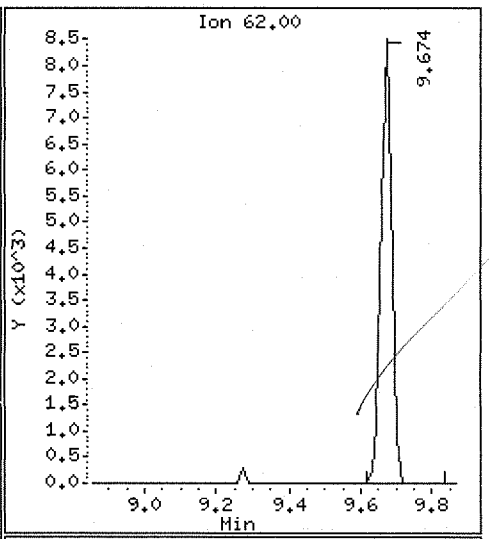
Concentration: 0.379 ug/L

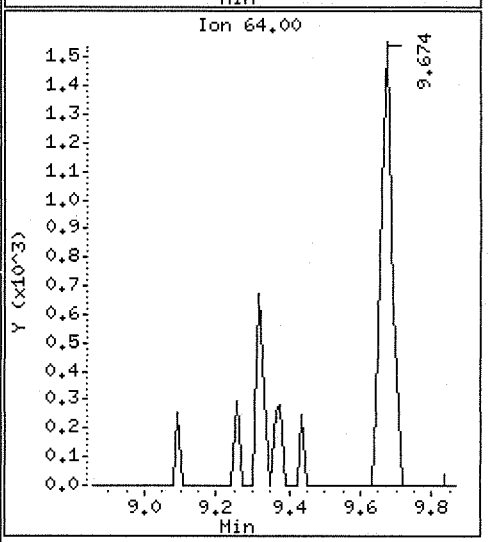












Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-2
Lab Code: D0700056-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloromethane	ND	U	0.24	1.0	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Chloride	**1.8**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromomethane	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloroethane	ND	U	0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethene (1,1-DCE)	**6.9**		0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Acetone	ND	U	0.91	10	1	01/17/2007	01/17/2007	K0116W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/17/2007	01/17/2007	K0116W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/17/2007	01/17/2007	K0116W02	
trans-1,2-Dichloroethene	**33**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethane (1,1-DCA)	**0.50**		0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Acetate	ND	U	0.24	10	1	01/17/2007	01/17/2007	K0116W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Butanone (MEK)	ND	U	0.66	10	1	01/17/2007	01/17/2007	K0116W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/17/2007	01/17/2007	K0116W02	
Chloroform	**0.19**	J	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
Benzene	**0.42**	J	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloroethane (EDC)	**0.61**		0.10	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Dibromomethane	ND	U	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/17/2007	01/17/2007	K0116W02	
Toluene	**0.14**	J	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Hexanone	ND	U	0.49	10	1	01/17/2007	01/17/2007	K0116W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/17/2007	01/17/2007	K0116W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-2
Lab Code: D0700056-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/17/2007	01/17/2007	K0116W02	
Styrene	ND	U	0.070	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromoform	ND	U	0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromobenzene	ND	U	0.13	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/17/2007	01/17/2007	K0116W02	
Naphthalene	ND	U	0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	
cis-1,2-Dichloroethene	**1500**	D	7.0	25	50	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	**450**	D	7.0	25	50	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	**210**	D	4.5	25	50	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	108	79-135	01/17/2007	
4-Bromofluorobenzene - SS	103	82-124	01/17/2007	
Dibromofluoromethane - SS	102	84-127	01/17/2007	
Toluene-d8 - SS	98	80-117	01/17/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D
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Inj Date : 17-JAN-2007 03:26
Operator : X Inst ID: MSK.i
Smp Info : D0700056-004
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:08 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

1/18/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.682	9.688	(1.000)	1155863	10.0000	
* 2	Chlorobenzene-d5	117	13.029	13.020	(1.000)	795045	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.617	15.608	(1.000)	320833	10.0000	
$ 4	Dibromofluoromethane	113	8.879	8.885	(0.917)	379933	10.1989	10.2
$ 5	1,2-Dichloroethane-d4	65	9.296	9.287	(0.960)	369341	10.7771	10.8
$ 6	Toluene-d8	98	11.438	11.428	(0.878)	1009980	9.79176	9.79
$ 7	Bromofluorobenzene	174	14.293	14.284	(0.915)	298792	10.2931	10.3
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	4.045	4.051	(0.418)	55187	1.76560	1.76
12	Bromomethane	94	4.833	4.661	(0.499)	1858	0.70272	~~0.703(aQ)~~
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	6.068	6.059	(0.627)	192750	6.89743	6.90
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	7.094	7.100	(0.733)	1153102	33.3214	33.3
27	tert-Butylmethylether	73	7.079	7.085	(0.731)	8554	0.11330	~~0.113(aQ)~~
28	1,1-Dichloroethane	63	7.630	7.636	(0.788)	32576	0.49677	0.497(a)
30	Vinyl acetate	43	Compound Not Detected.					

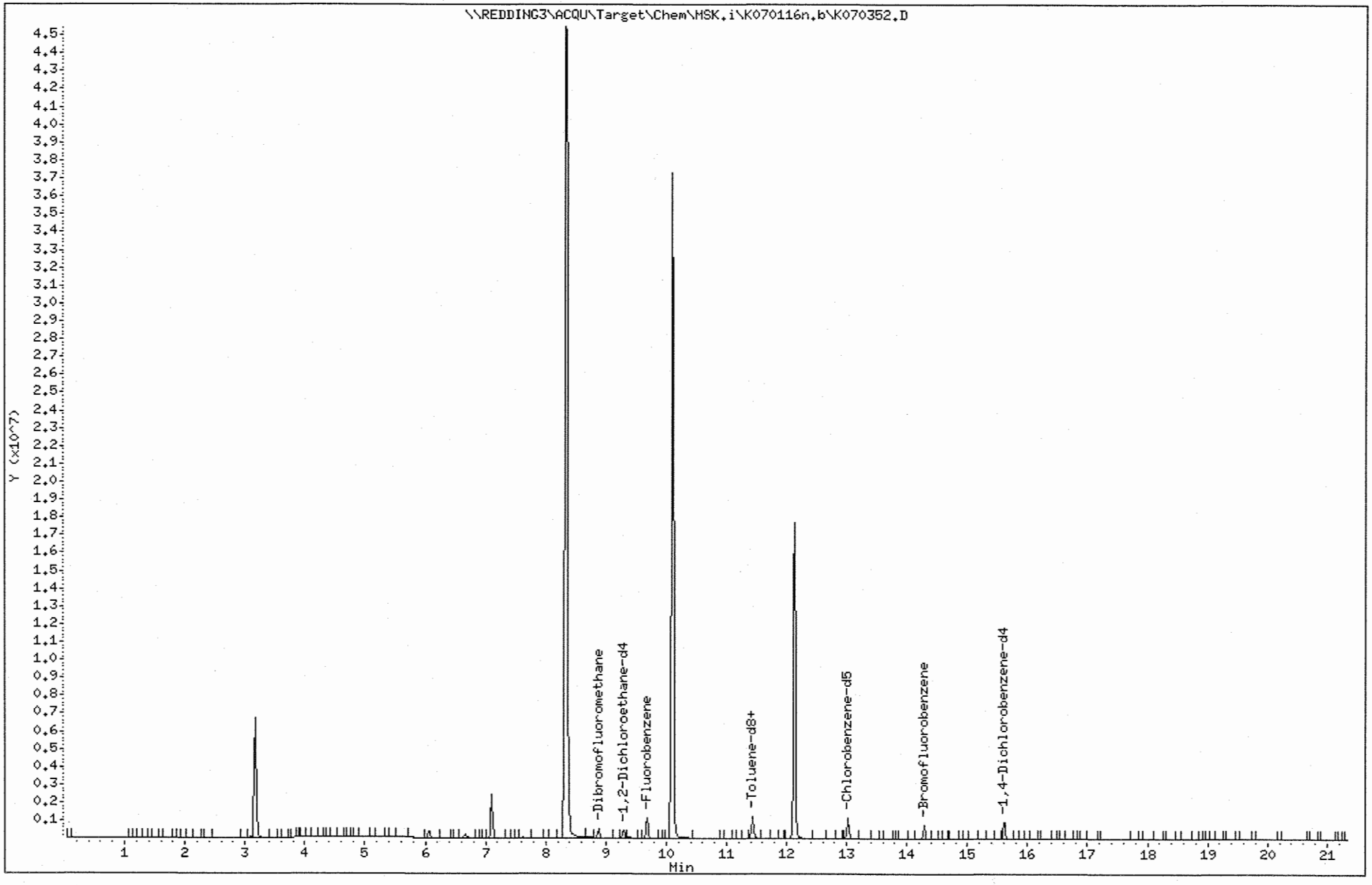
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.344	8.349	(0.862)	26176482	689.063	689(AQ)
35	2-Butanone	43	8.299	8.305	(0.857)	20388	1.50711	1.51(aQ)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.686	8.692	(0.897)	11503	0.18669	0.187(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	9.400	9.406	(0.971)	53510	0.41551	0.416(a)
44	1,2-Dichloroethane	62	9.385	9.376	(0.969)	26293	0.60891	0.609
45	Trichloroethene	95	10.099	10.105	(1.043)	15888138	441.090	441(A)
46	1,2-Dichloropropane	63	10.099	10.343	(1.043)	62133	1.60809	1.61(Q)
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	11.512	11.503	(0.884)	10472	0.14177	0.142(aQ)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.122	11.904	(0.930)	154112	7.31613	7.32(Q)
56	Tetrachloroethene	166	12.137	12.142	(0.931)	6593163	221.965	222(A)
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D
Date : 17-JAN-2007 03:26
Client ID: BLD120-MW-2
Sample Info: D0700056-004
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

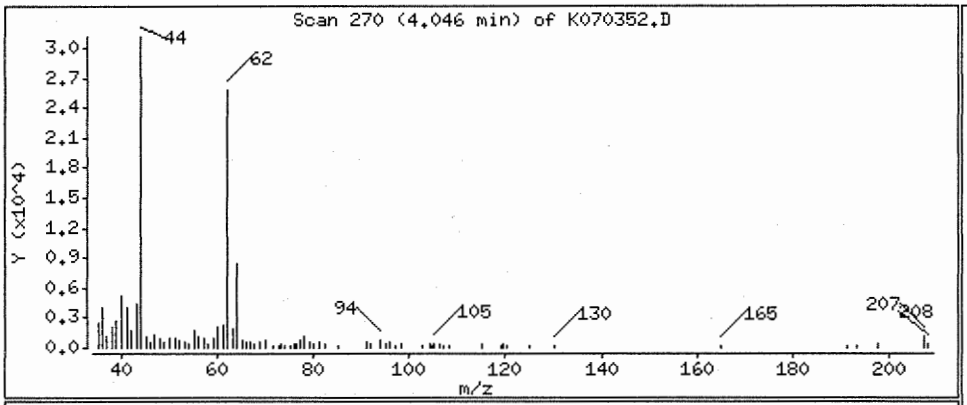
Client ID: BLD120-MW-2 Instrument: MSK.i

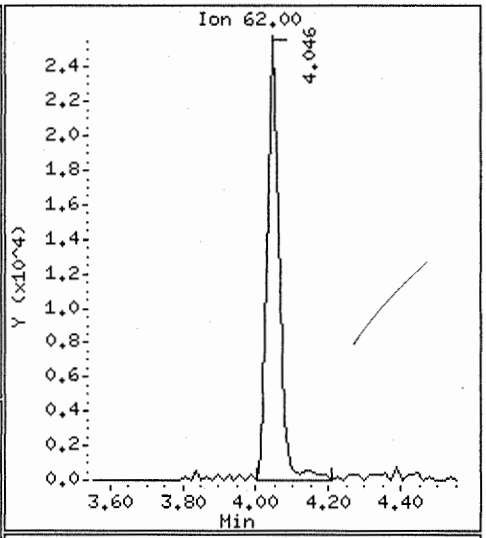
Sample Info: D0700056-004

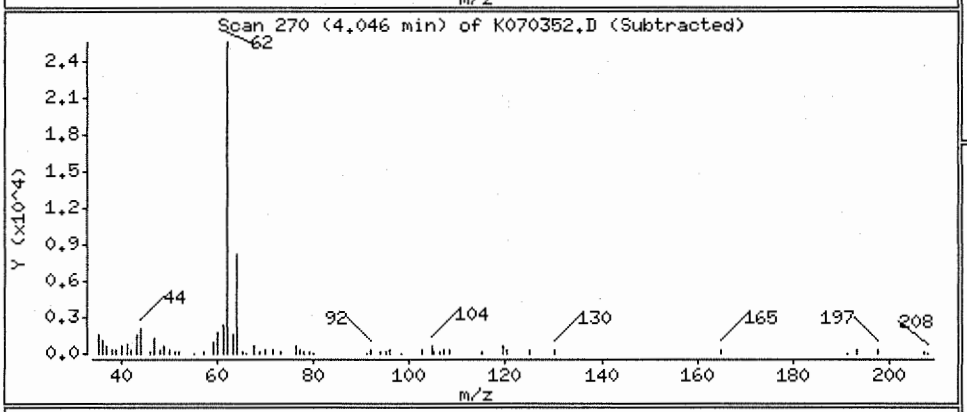
Purge Volume: 10.0 Operator: X

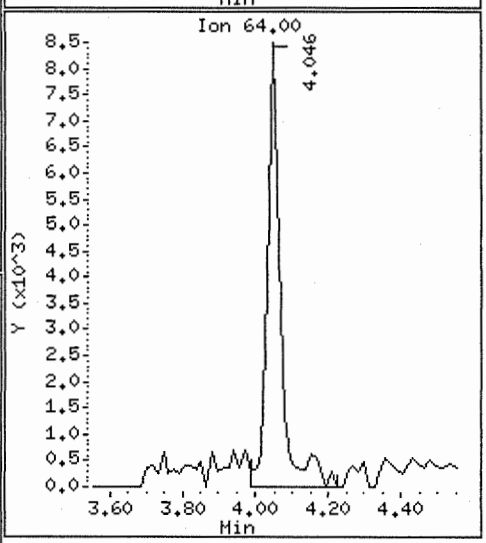
Column phase: DB-624 Column diameter: 0.32

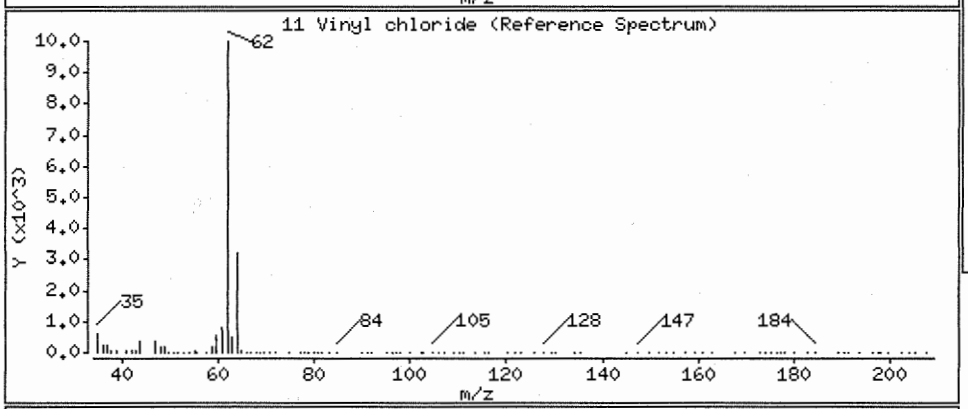
11 Vinyl chloride Concentration: 1.76 ug/L

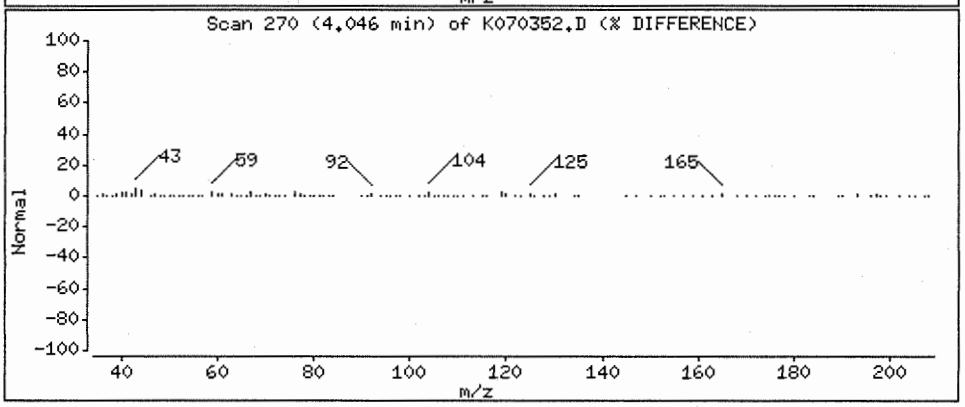












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

Client ID: BLD120-MW-2

Instrument: MSK.i

Sample Info: D0700056-004

Purge Volume: 10.0

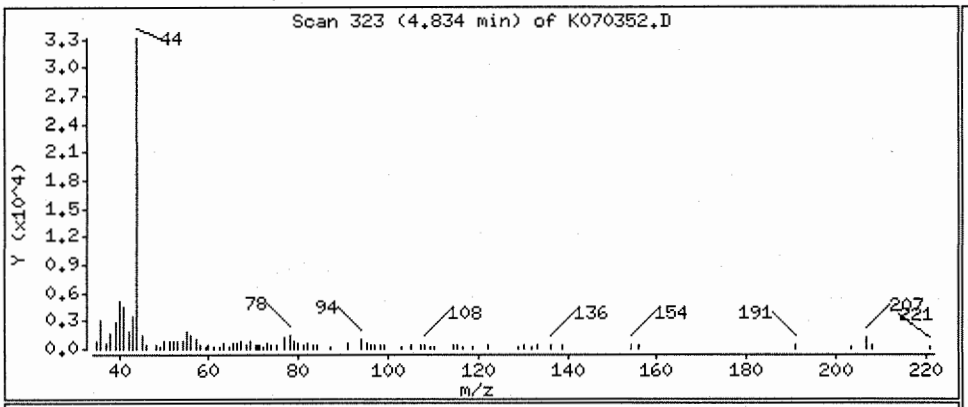
Operator: X

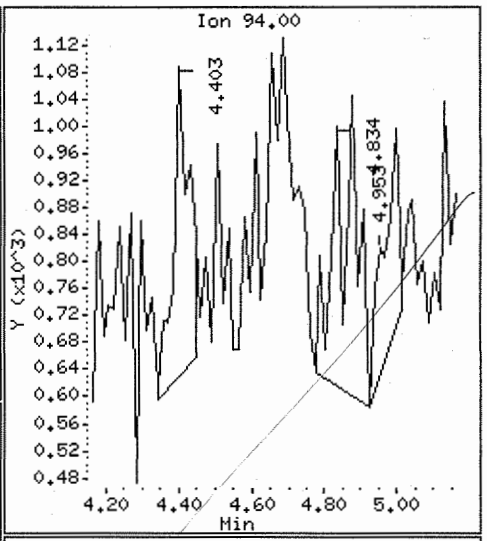
Column phase: DB-624

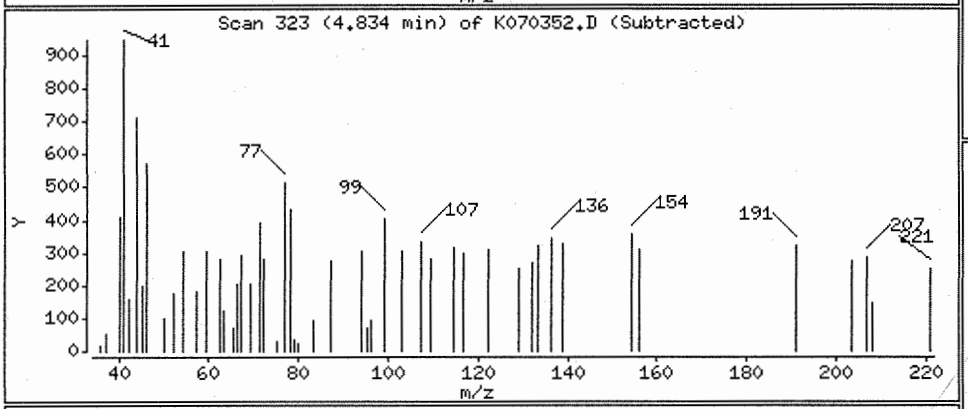
Column diameter: 0.32

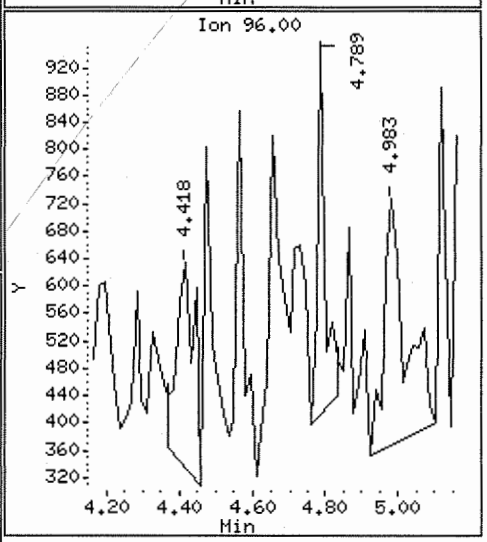
12 Bromomethane

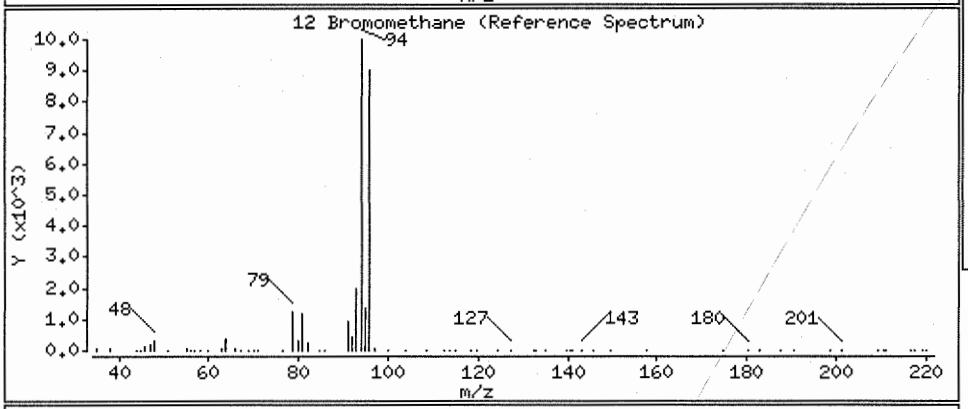
Concentration: 0.703 ug/L

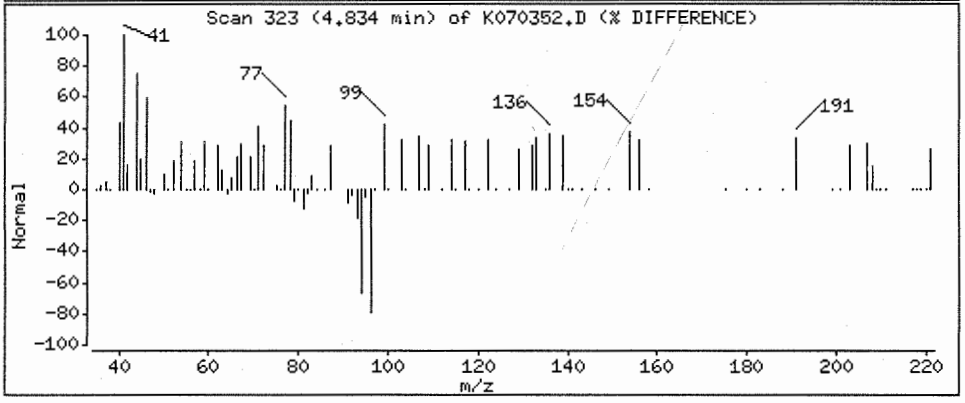












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

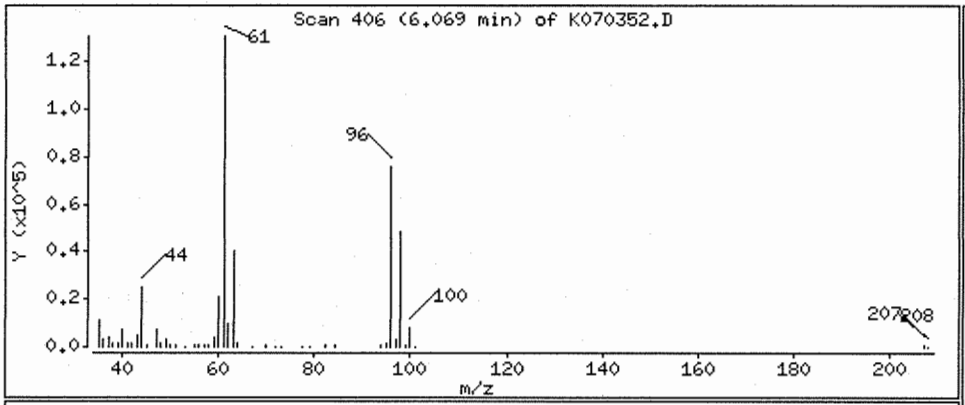
Client ID: BLD120-MW-2 Instrument: MSK.i

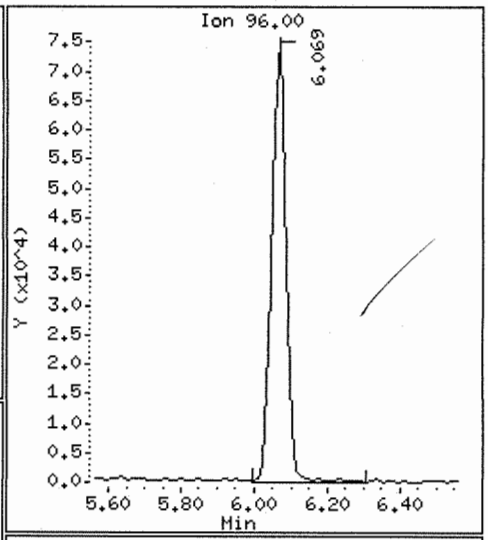
Sample Info: D0700056-004

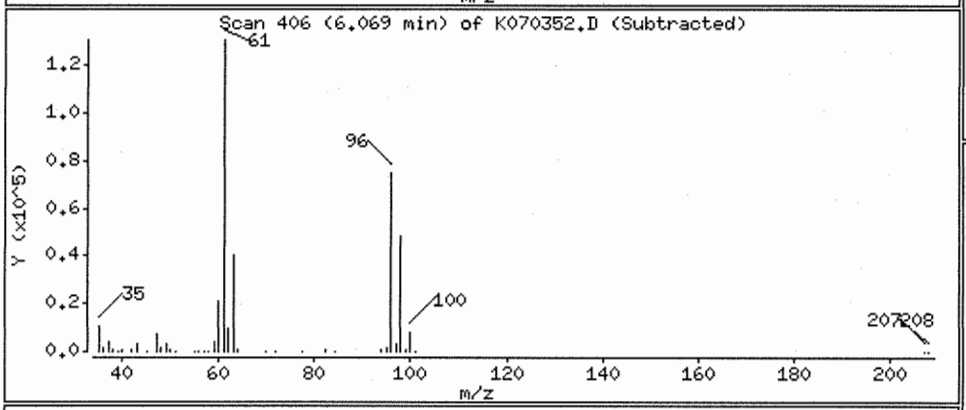
Purge Volume: 10.0 Operator: X

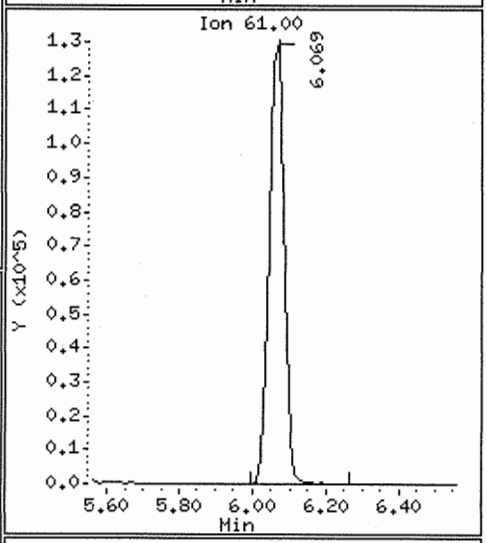
Column phase: DB-624 Column diameter: 0.32

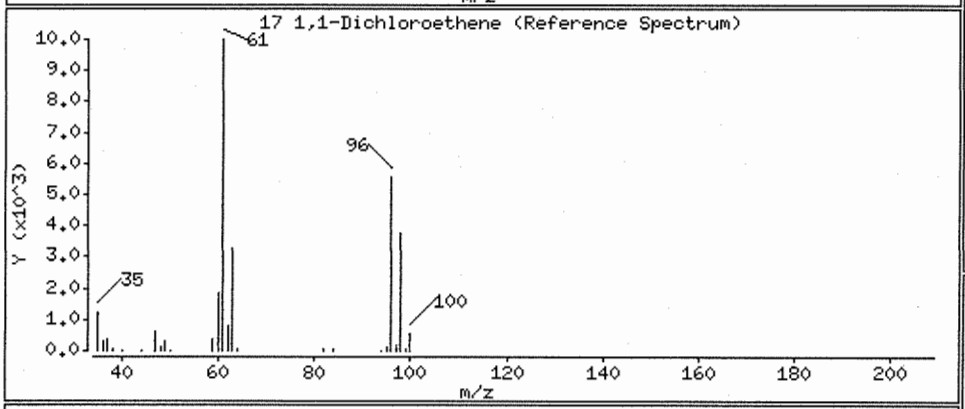
17 1,1-Dichloroethene Concentration: 6.90 ug/L

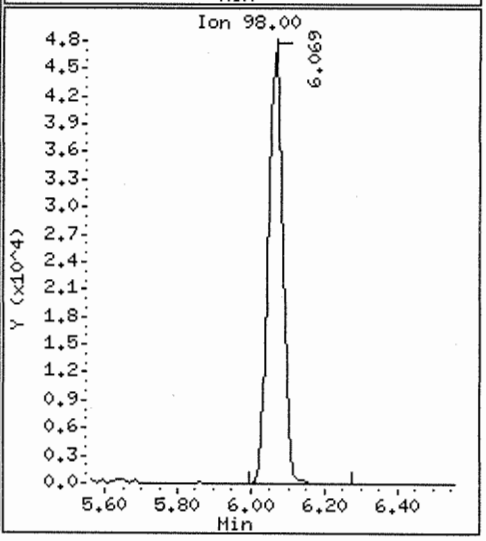


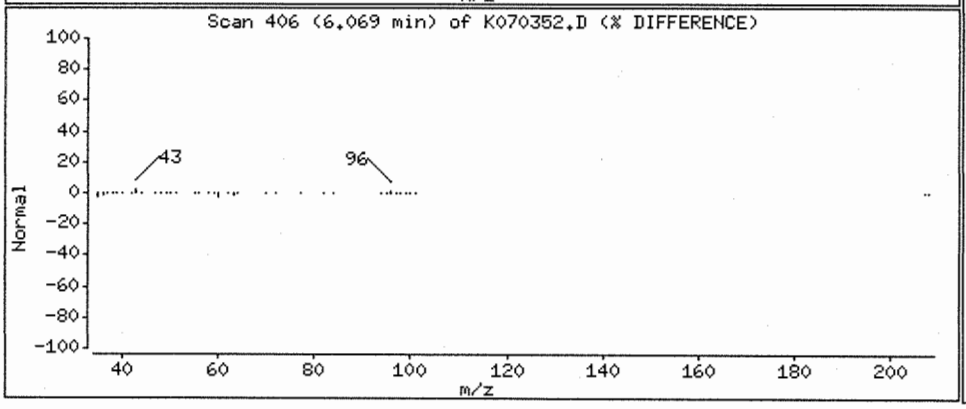












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

Client ID: BLD120-MW-2

Instrument: MSK.i

Sample Info: D0700056-004

Purge Volume: 10.0

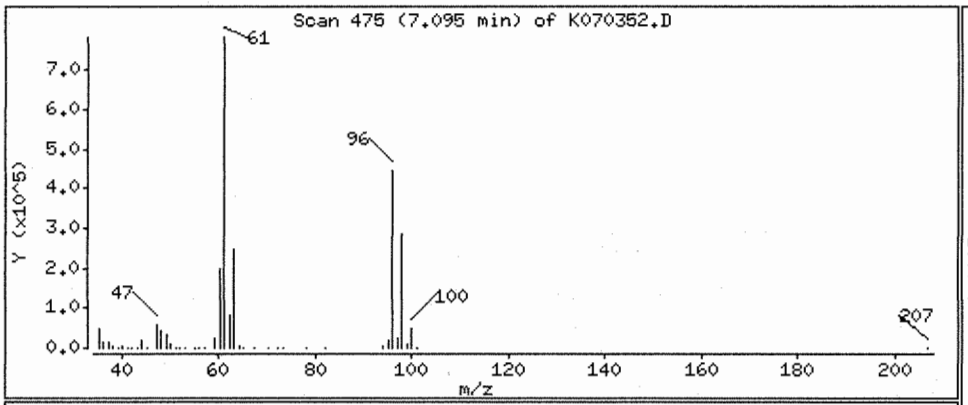
Operator: X

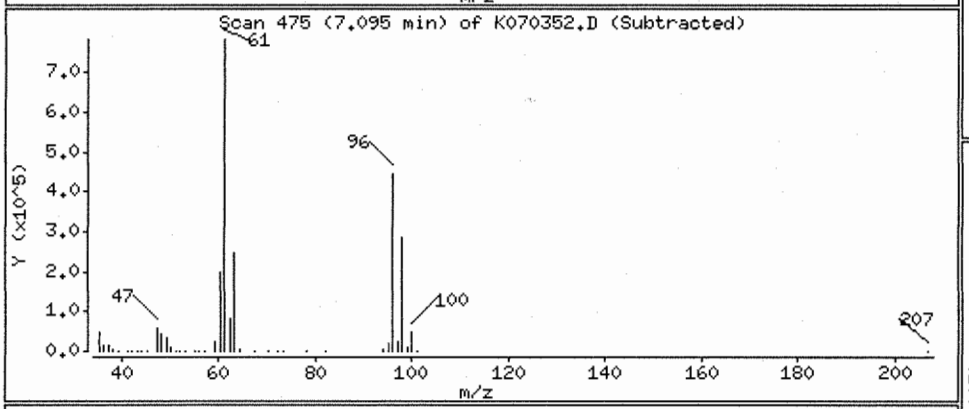
Column phase: DB-624

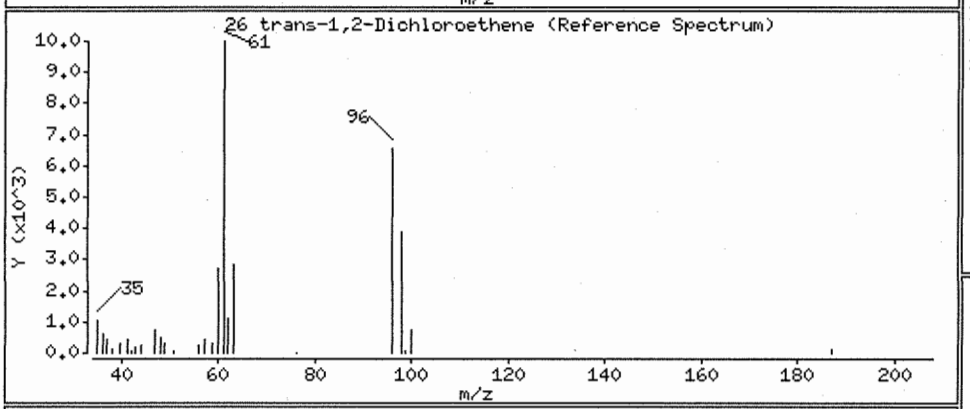
Column diameter: 0.32

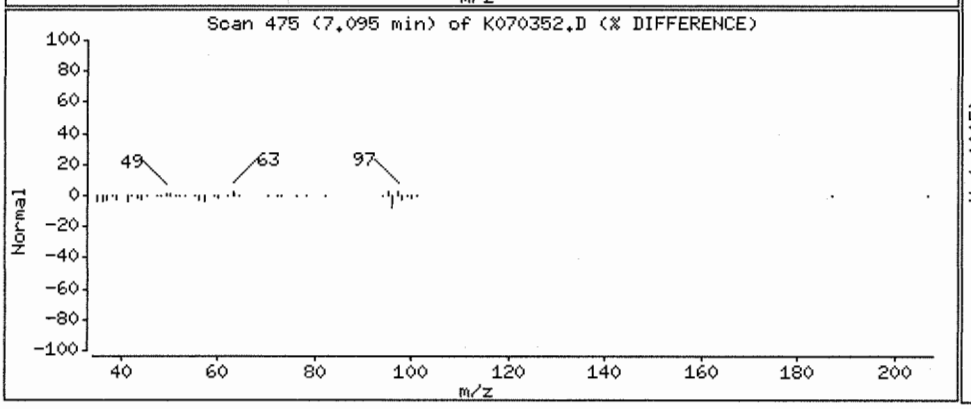
26 trans-1,2-Dichloroethene

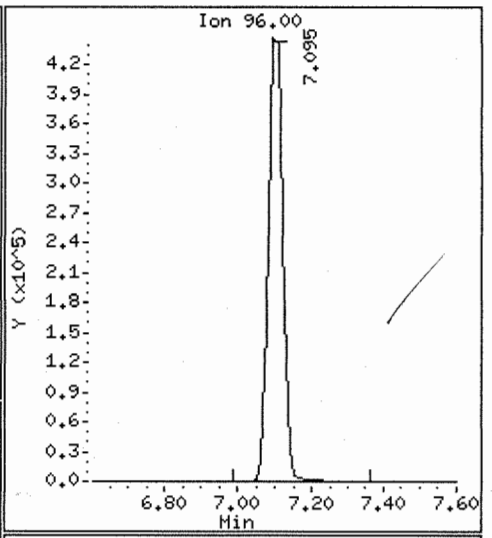
Concentration: 33.3 ug/L

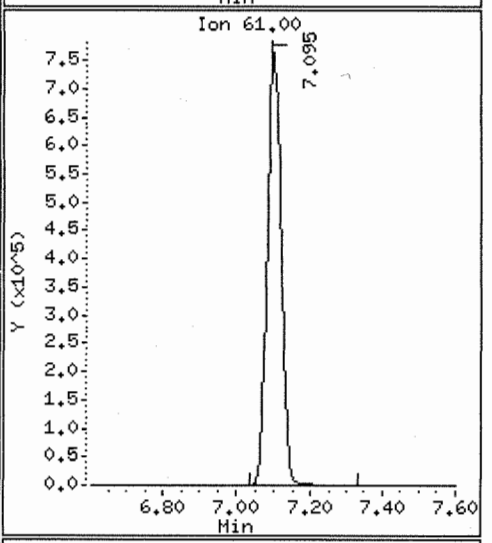


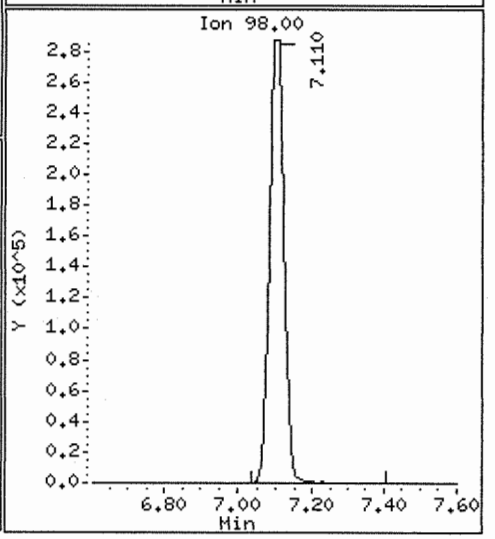












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

Client ID: BLD120-MW-2

Instrument: MSK.i

Sample Info: D0700056-004

Purge Volume: 10.0

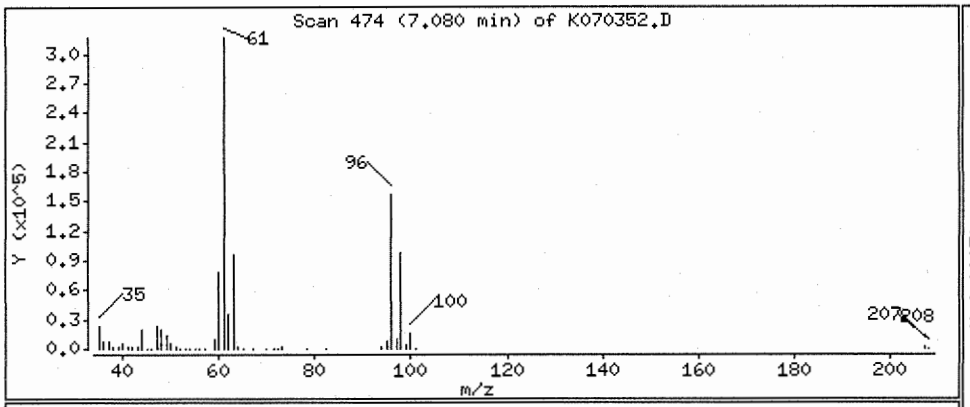
Operator: X

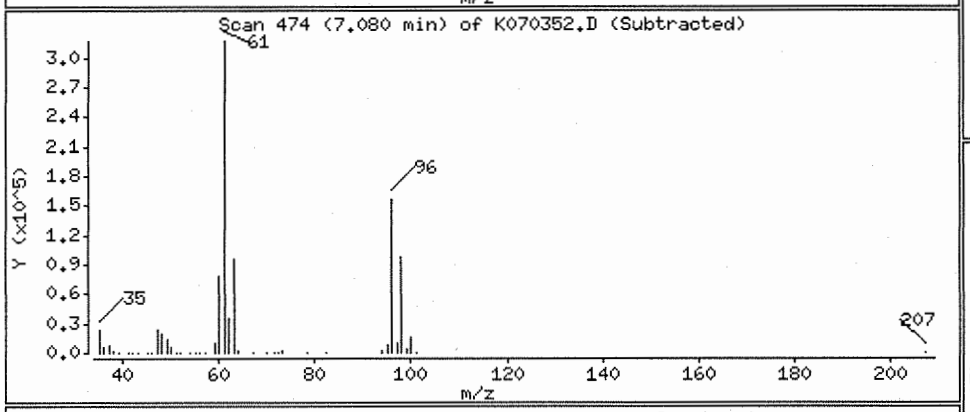
Column phase: DB-624

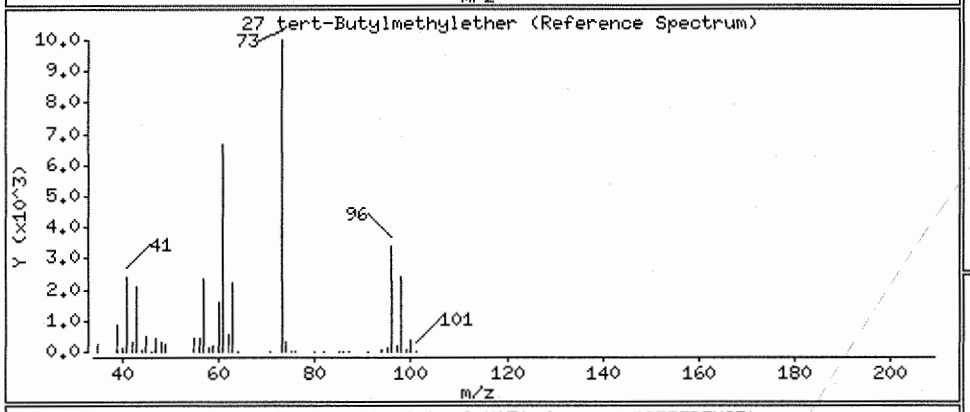
Column diameter: 0.32

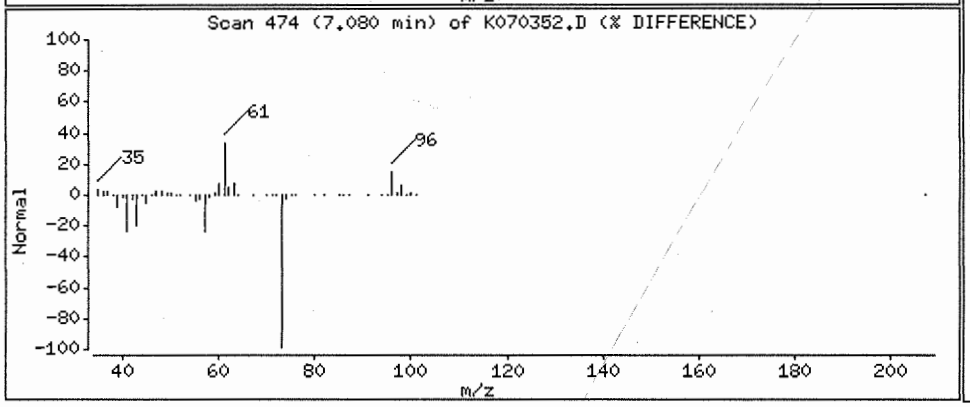
27 tert-Butylmethylether

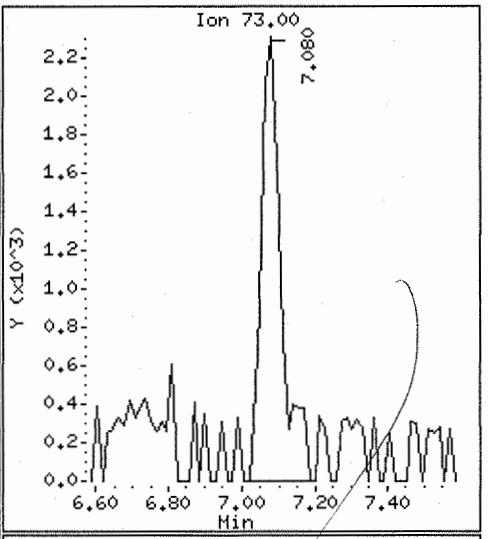
Concentration: 0.113 ug/L

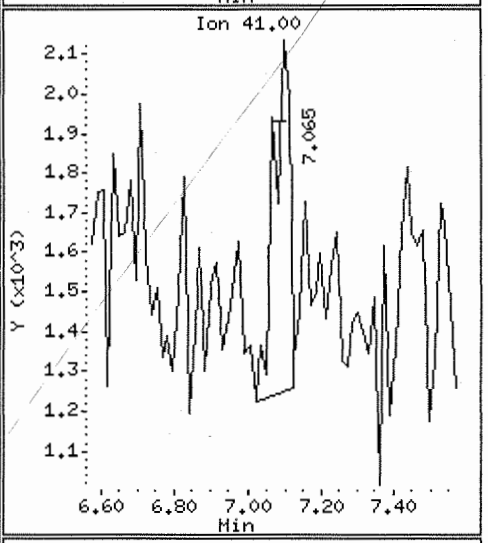


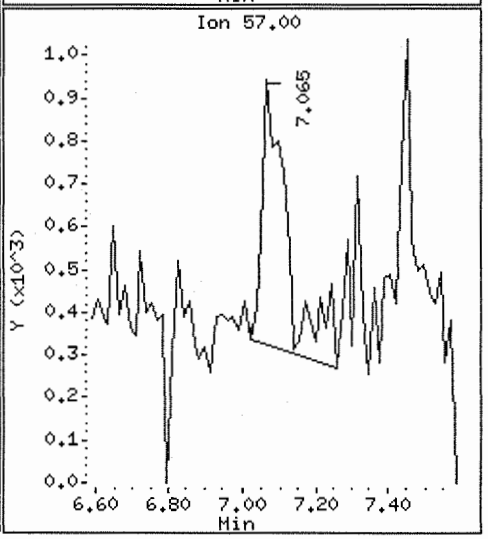












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

Client ID: BLD120-MW-2

Instrument: MSK.i

Sample Info: D0700056-004

Purge Volume: 10.0

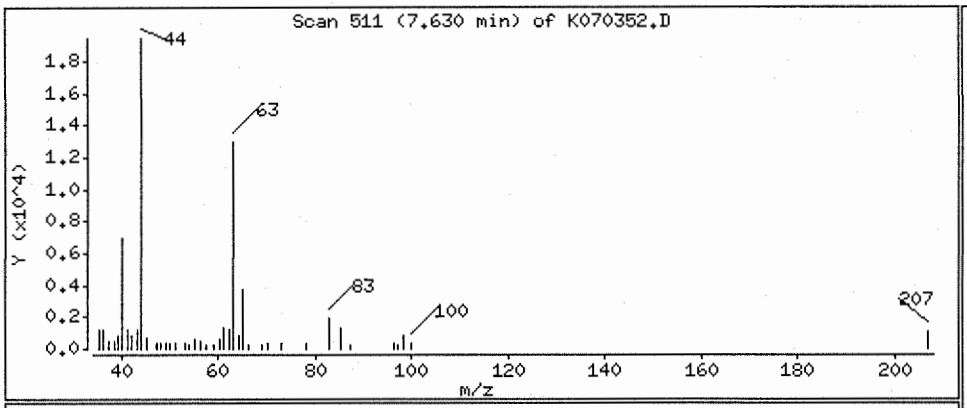
Operator: X

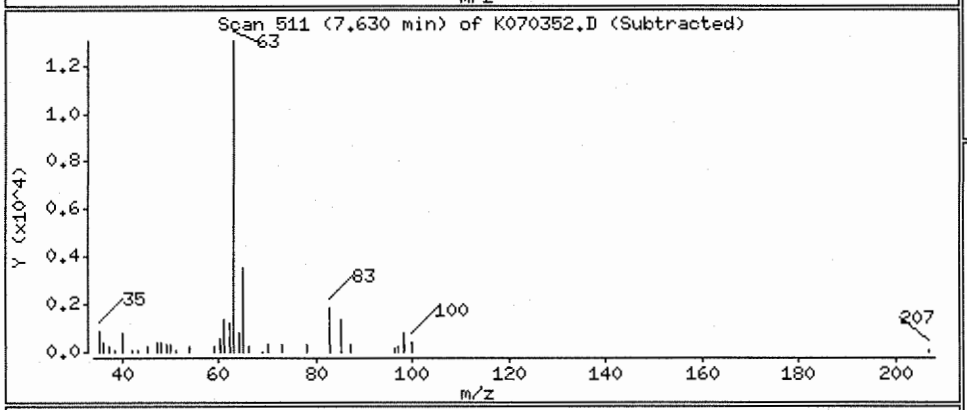
Column phase: DB-624

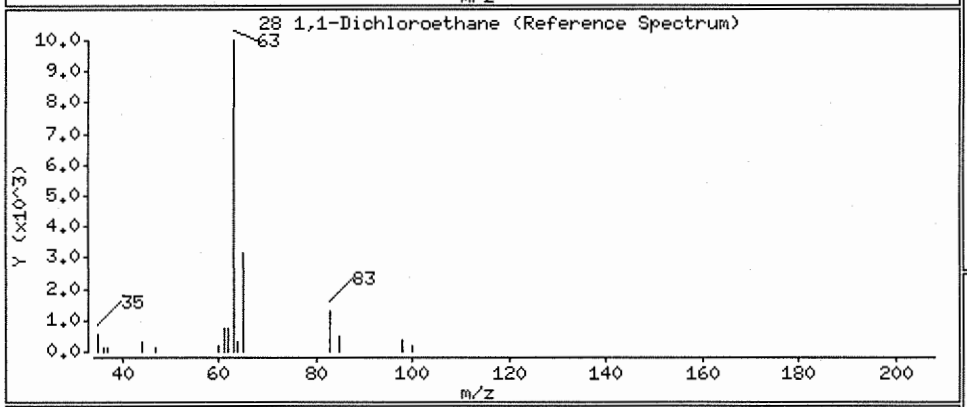
Column diameter: 0.32

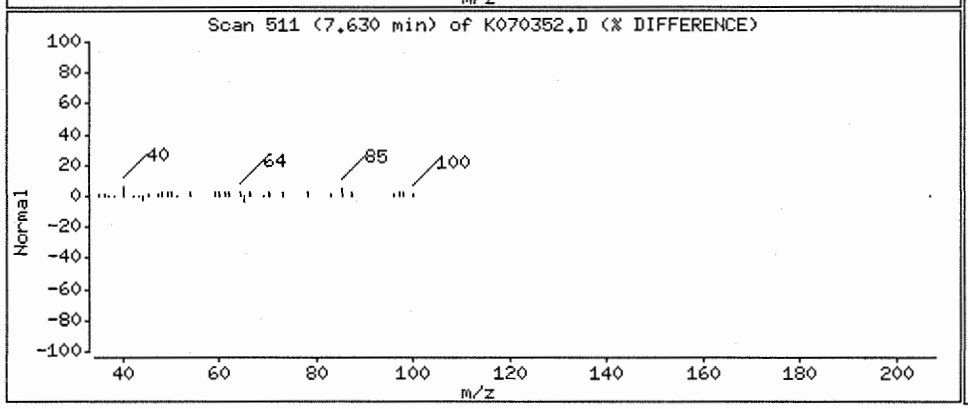
28 1,1-Dichloroethane

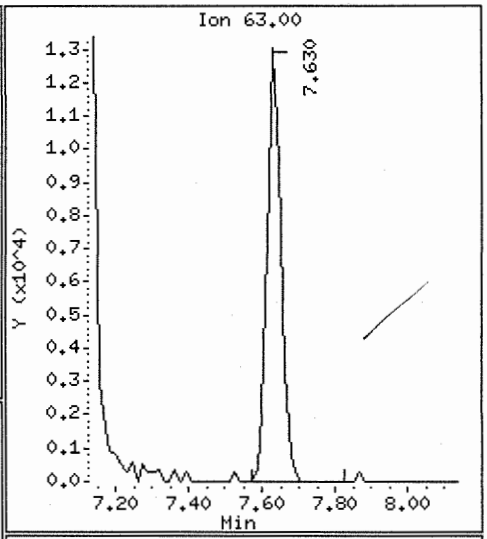
Concentration: 0.497 ug/L

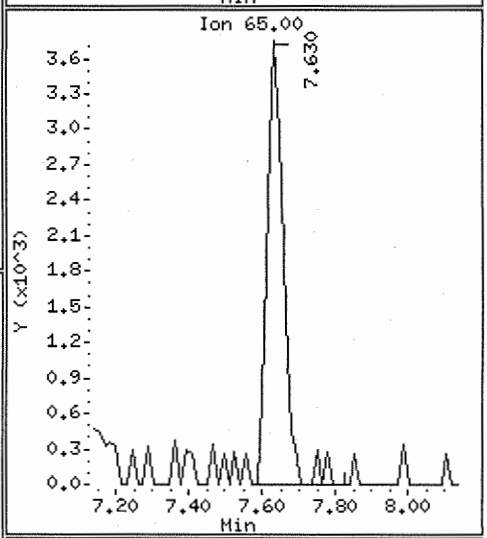


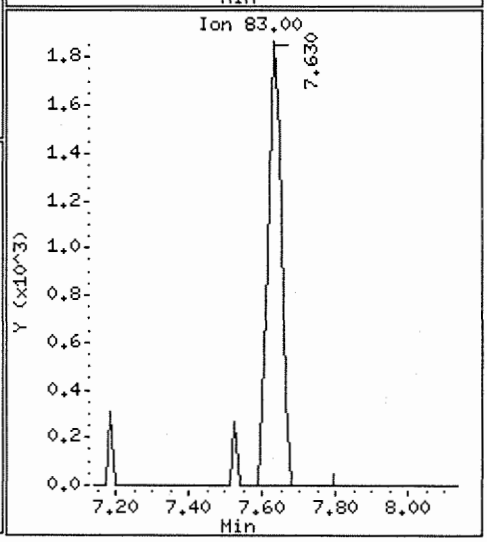












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

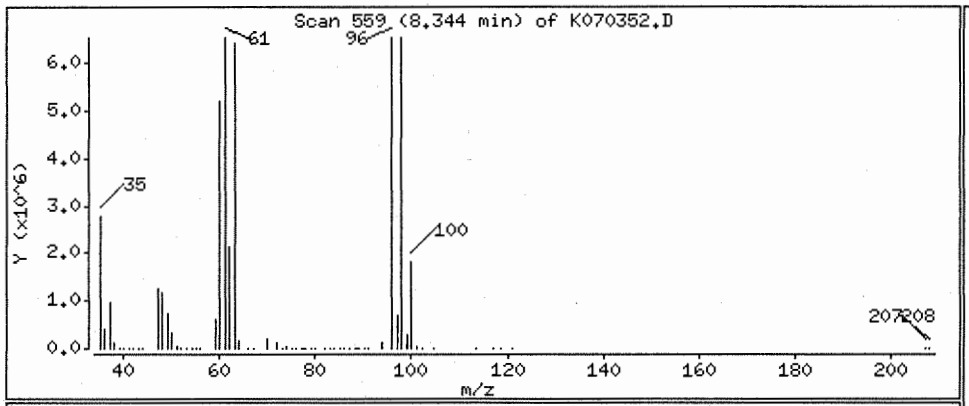
Client ID: BLD120-MW-2 Instrument: MSK.i

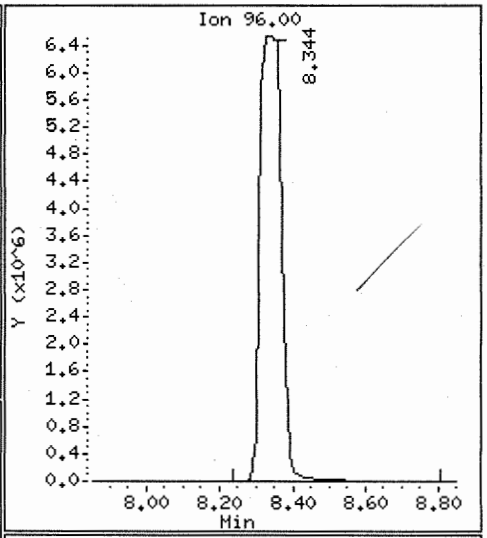
Sample Info: D0700056-004

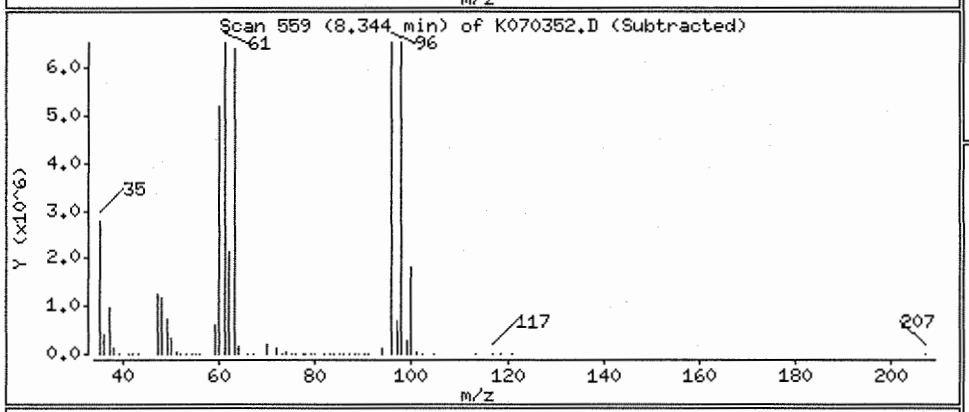
Purge Volume: 10.0 Operator: X

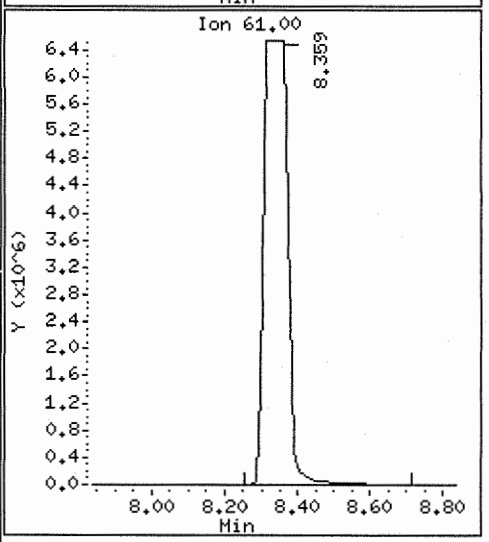
Column phase: DB-624 Column diameter: 0.32

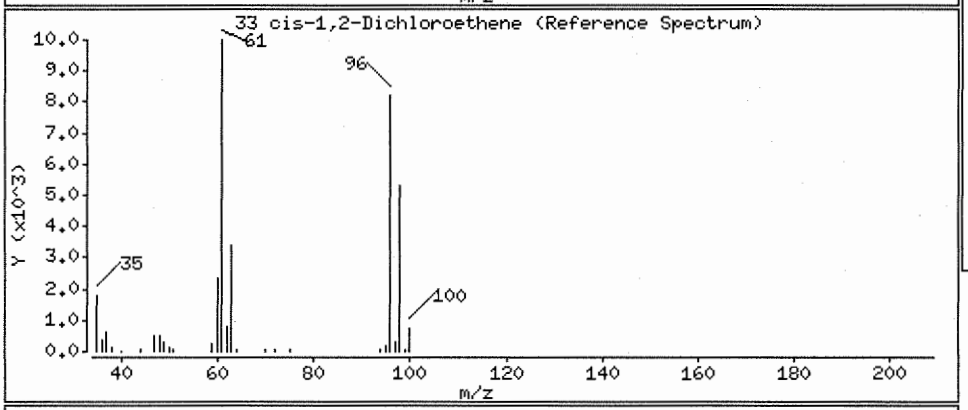
33 cis-1,2-Dichloroethene Concentration: 689 ug/L

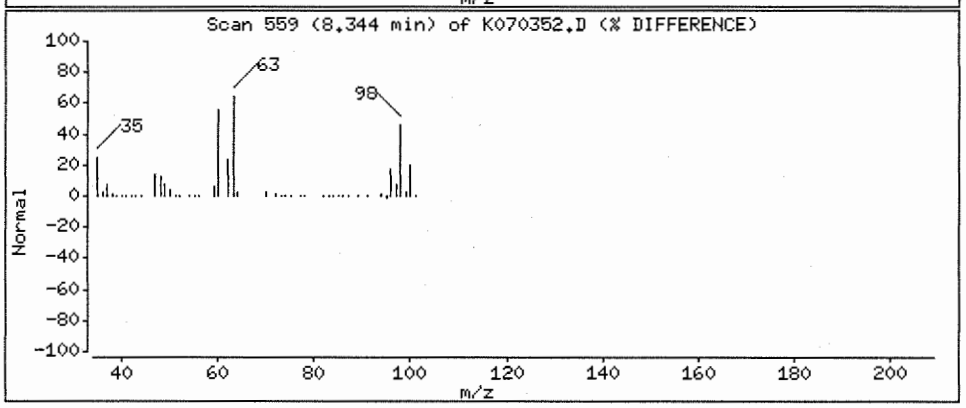












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

Client ID: BLD120-MW-2

Instrument: MSK.i

Sample Info: D0700056-004

Purge Volume: 10.0

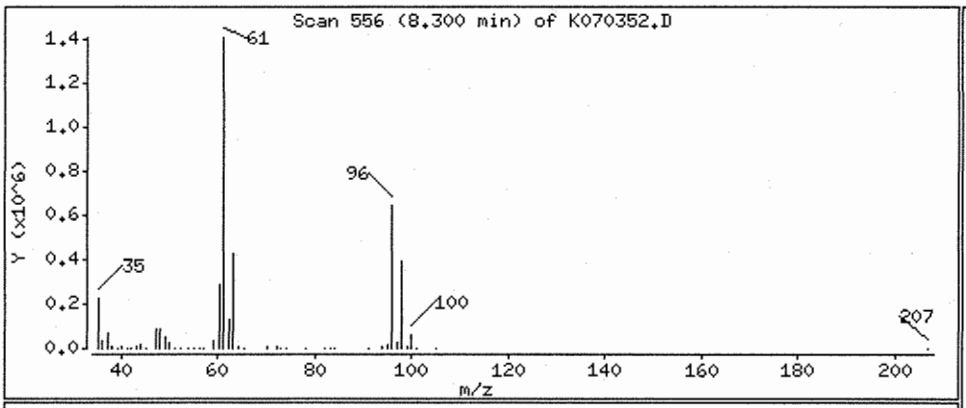
Operator: X

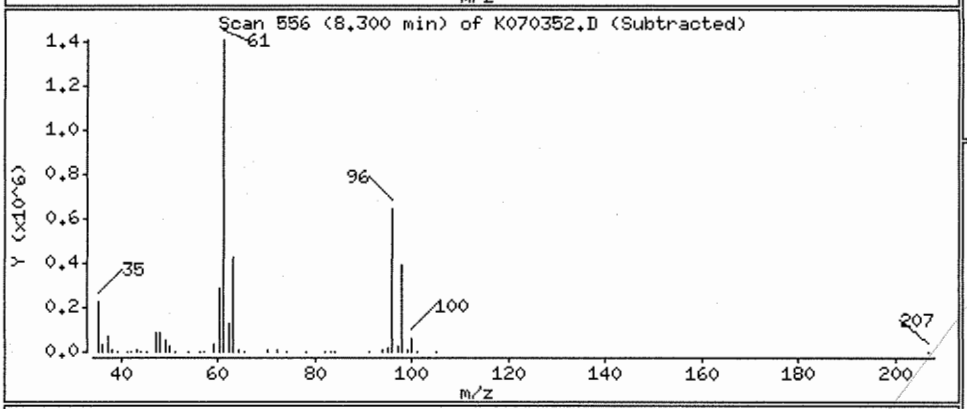
Column phase: DB-624

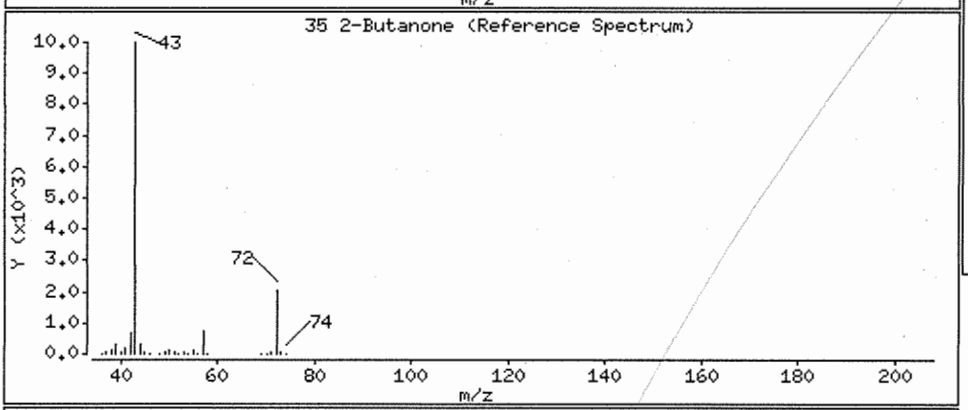
Column diameter: 0.32

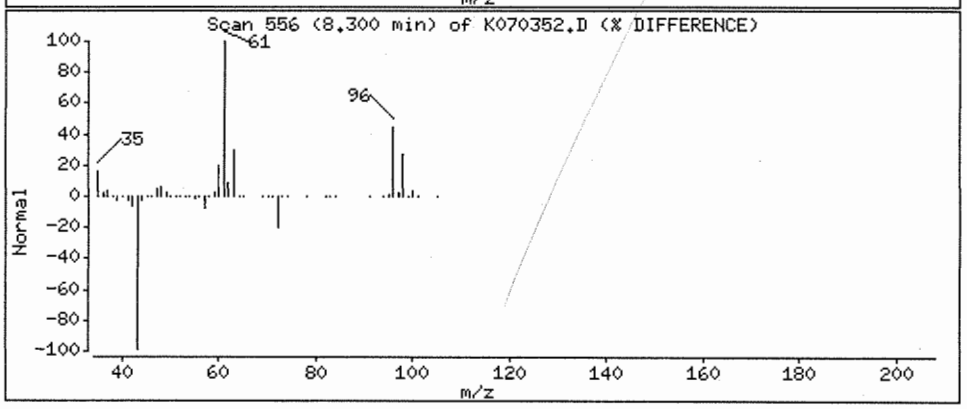
35 2-Butanone

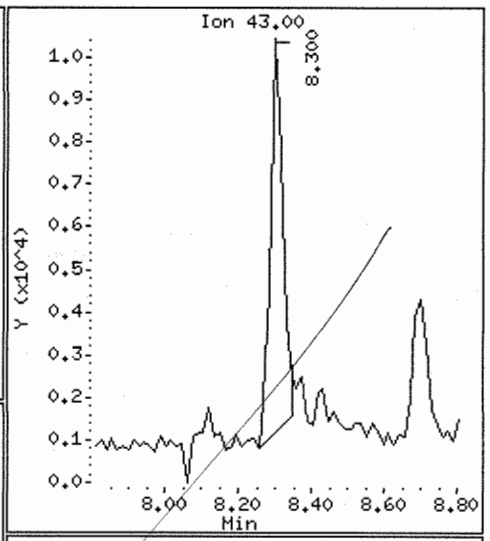
Concentration: 1.51 ug/L

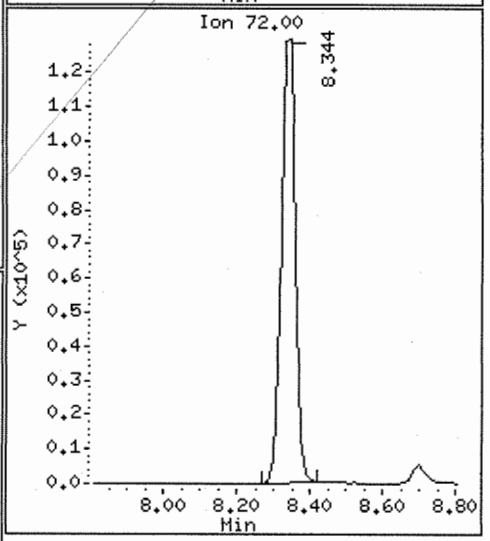












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

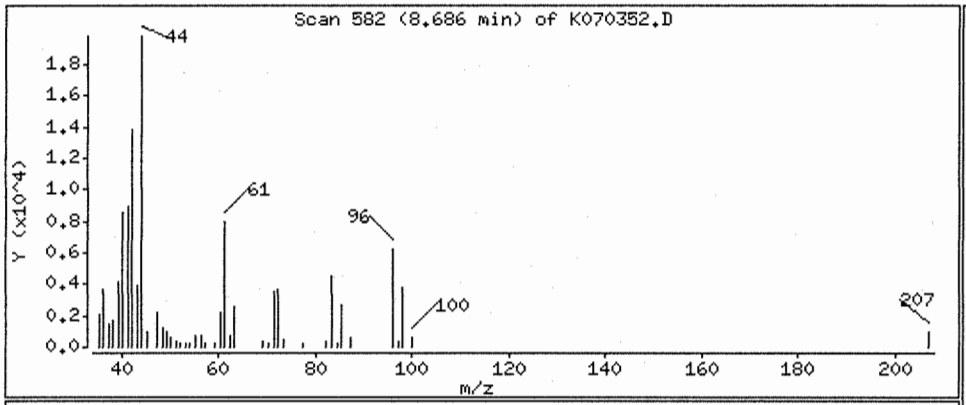
Client ID: BLD120-MW-2 Instrument: MSK.i

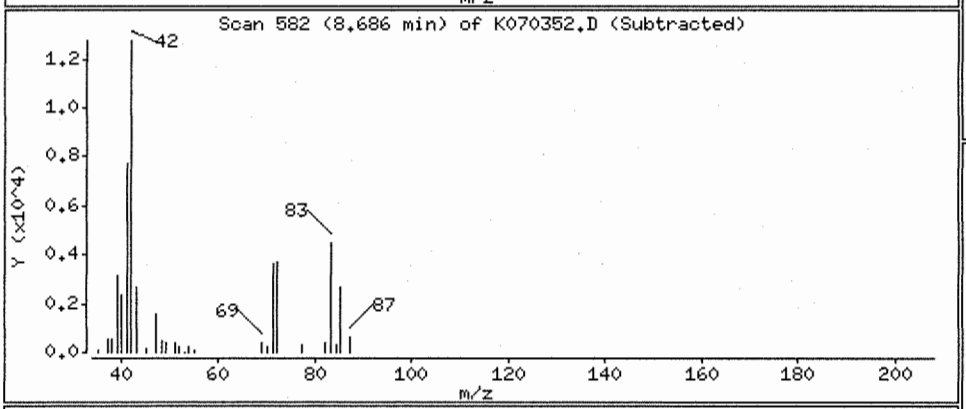
Sample Info: D0700056-004

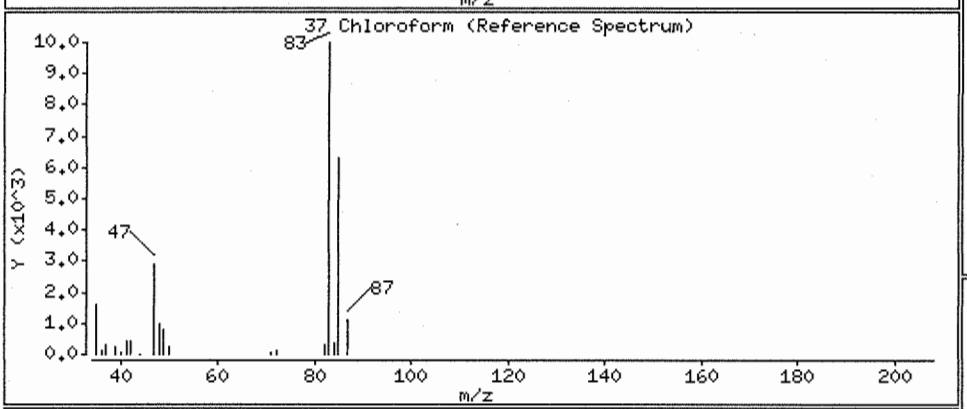
Purge Volume: 10.0 Operator: X

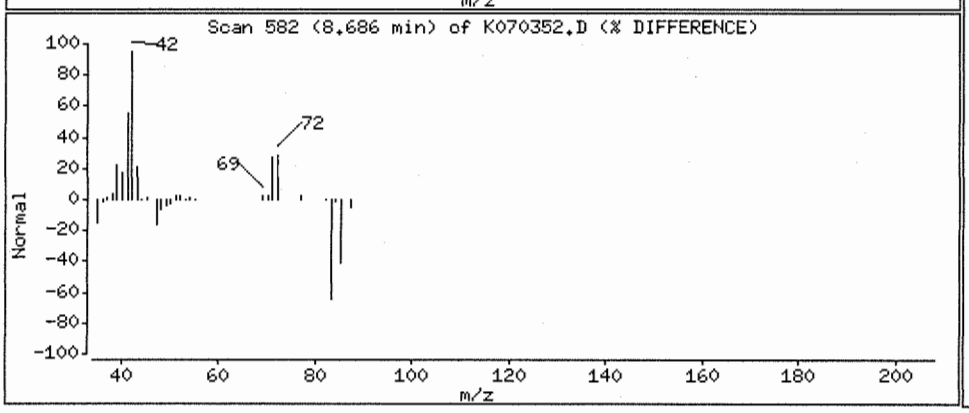
Column phase: DB-624 Column diameter: 0.32

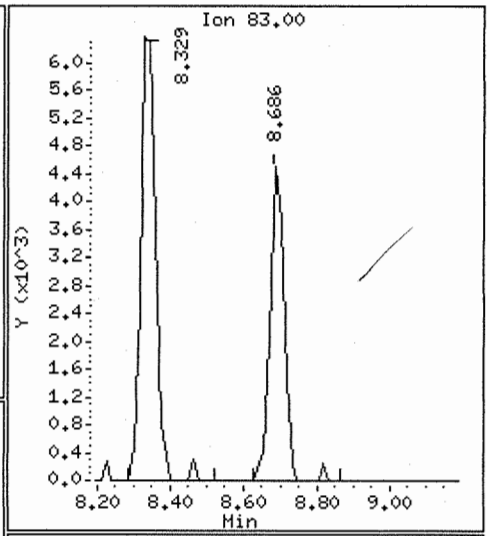
37 Chloroform Concentration: 0.187 ug/L

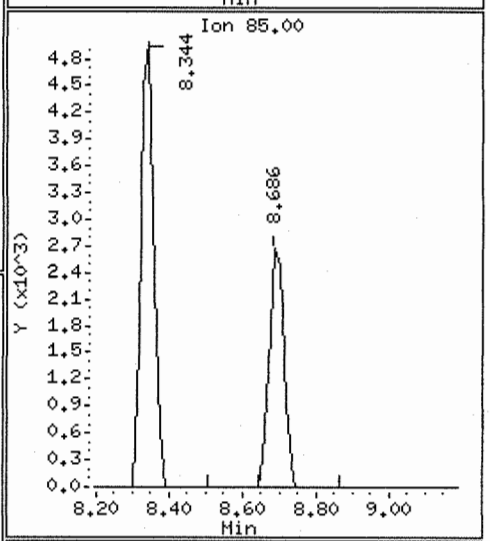


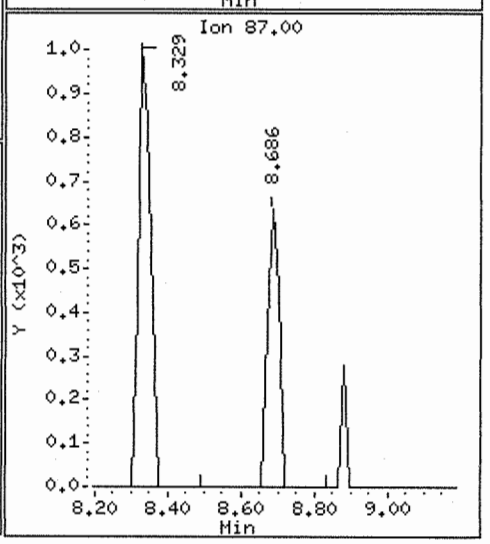












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

Client ID: BLD120-MW-2

Instrument: MSK.i

Sample Info: D0700056-004

Purge Volume: 10.0

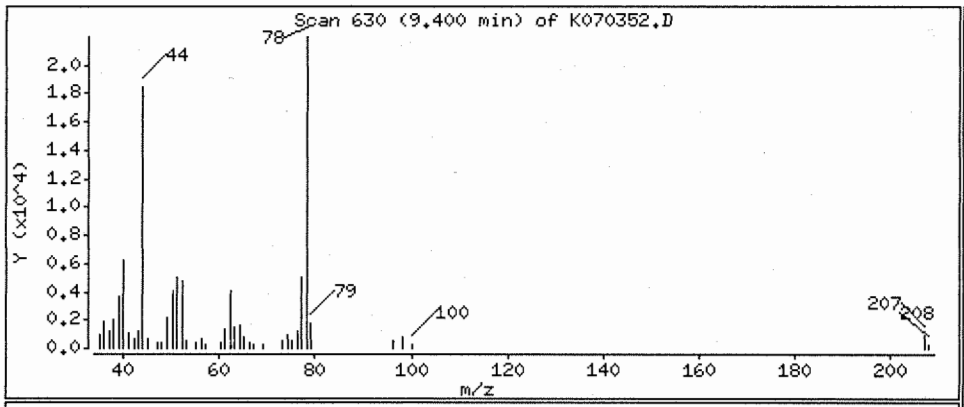
Operator: X

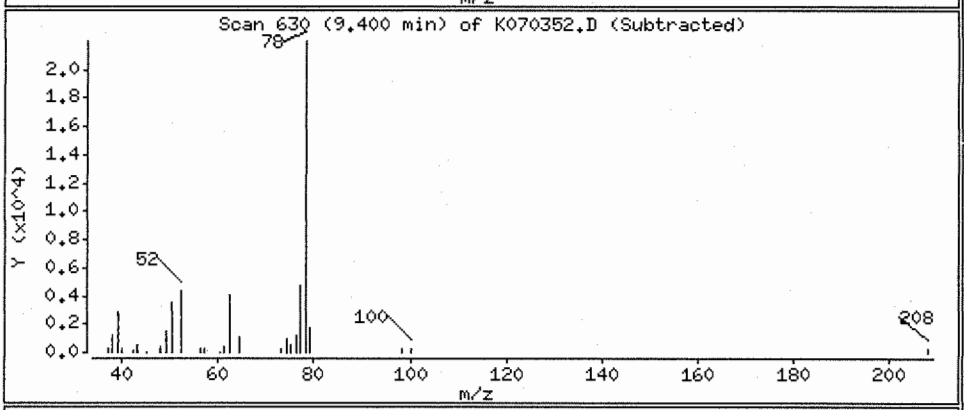
Column phase: DB-624

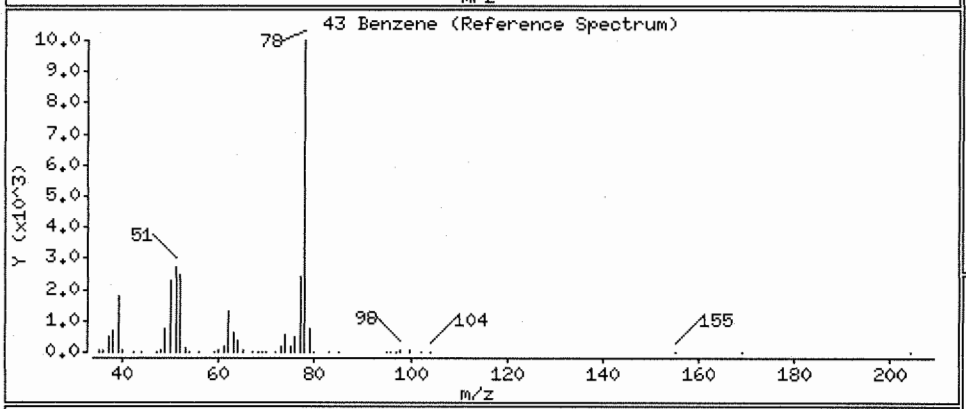
Column diameter: 0.32

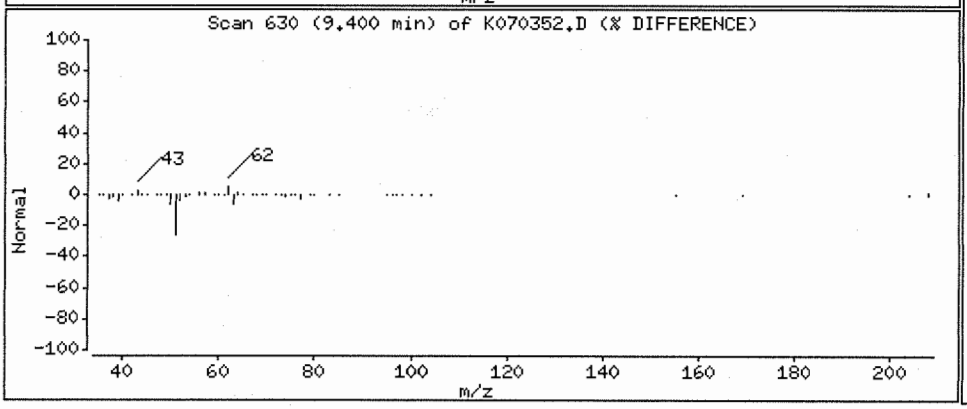
43 Benzene

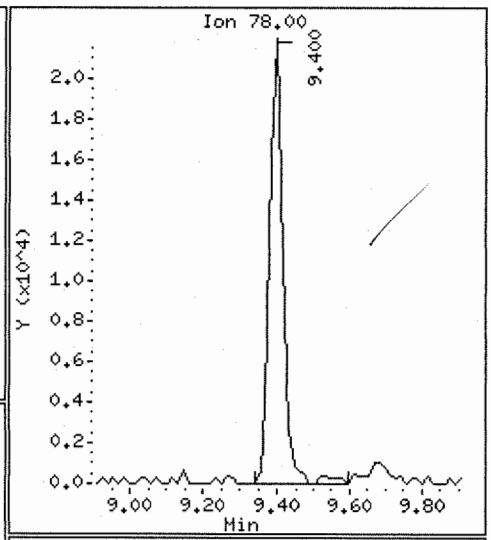
Concentration: 0.416 ug/L

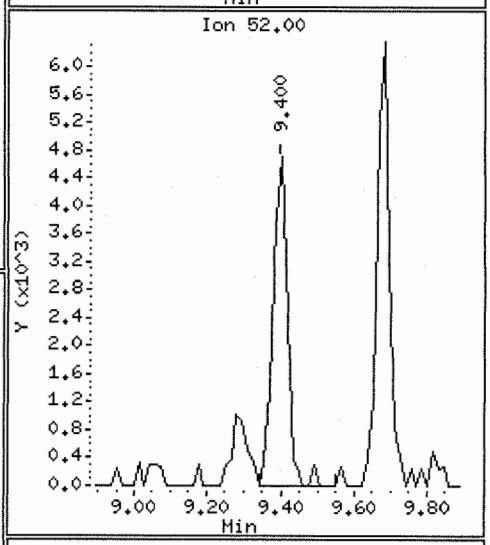


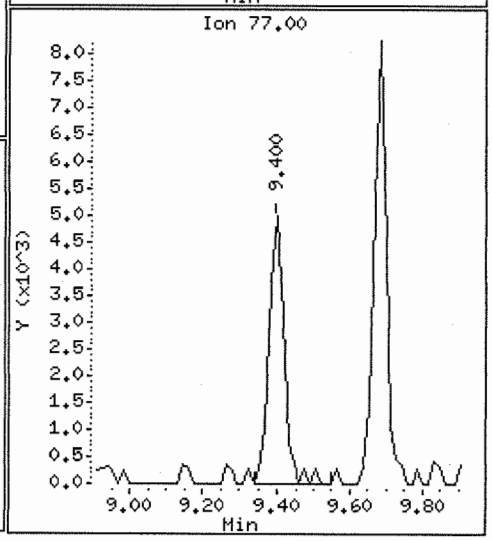












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

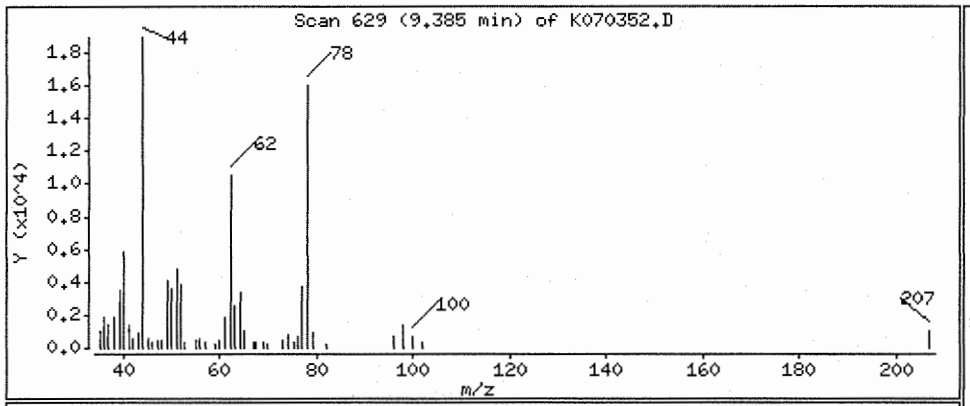
Client ID: BLD120-MW-2 Instrument: MSK.i

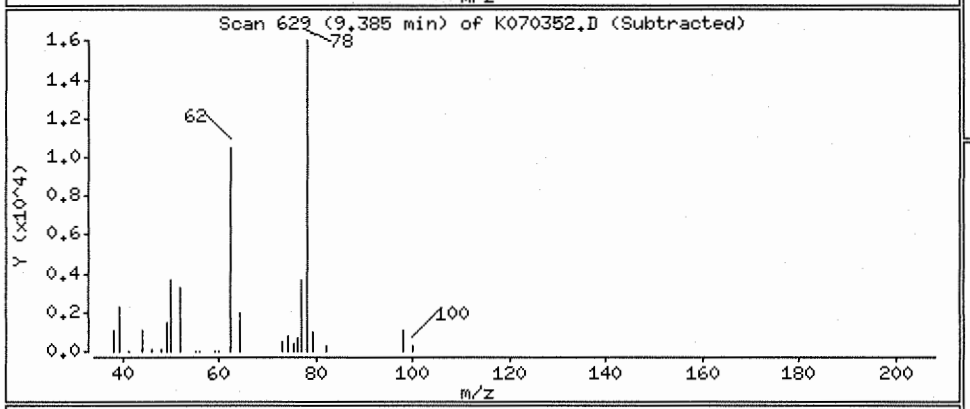
Sample Info: D0700056-004

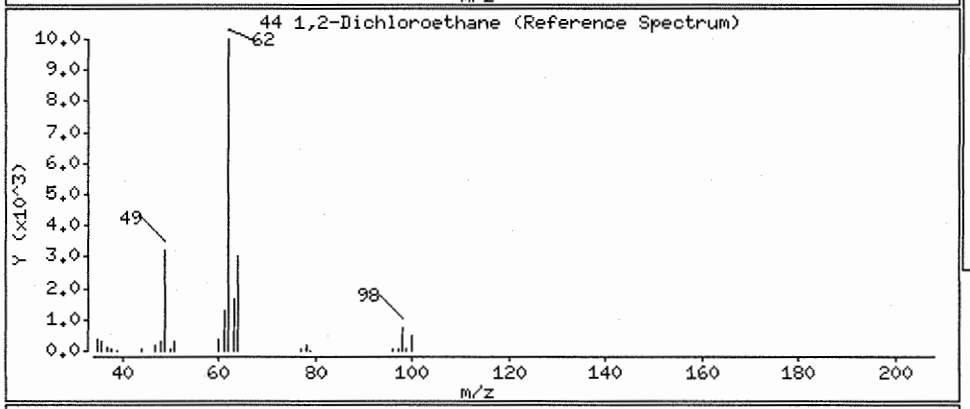
Purge Volume: 10.0 Operator: X

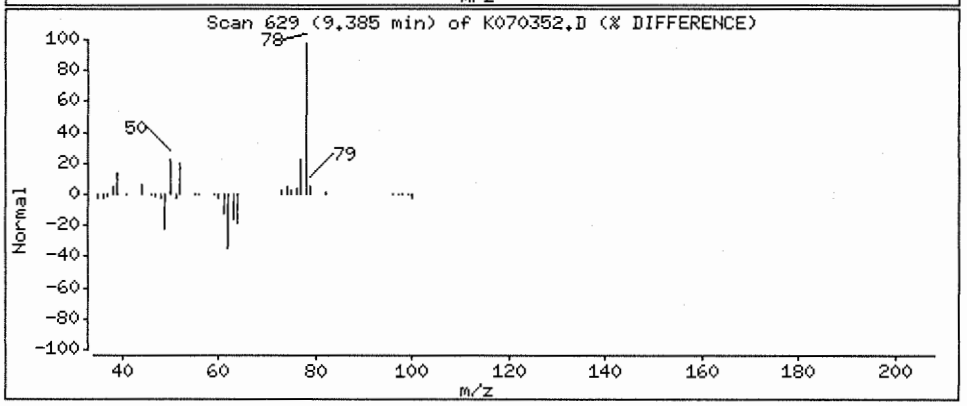
Column phase: DB-624 Column diameter: 0.32

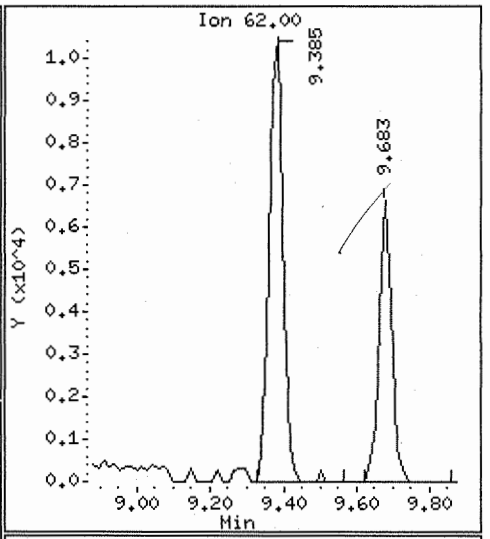
44 1,2-Dichloroethane Concentration: 0.609 ug/L

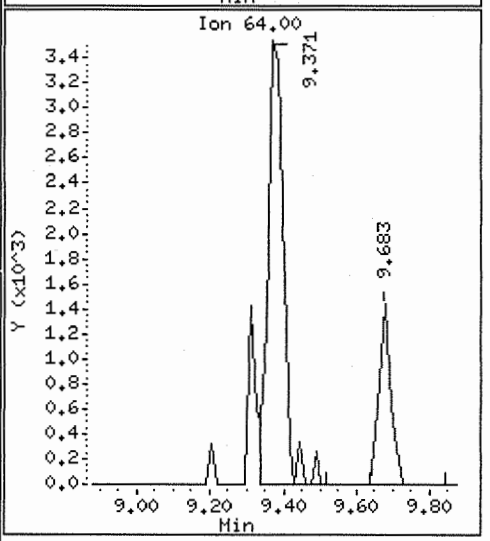












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

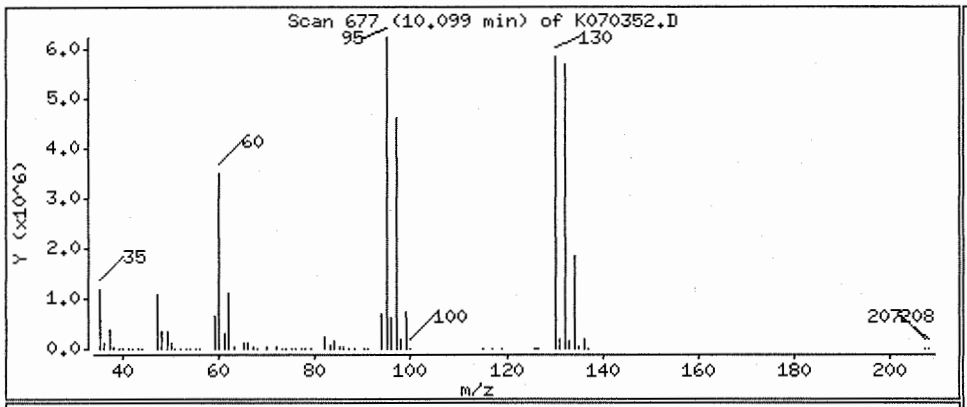
Client ID: BLD120-MW-2 Instrument: MSK.i

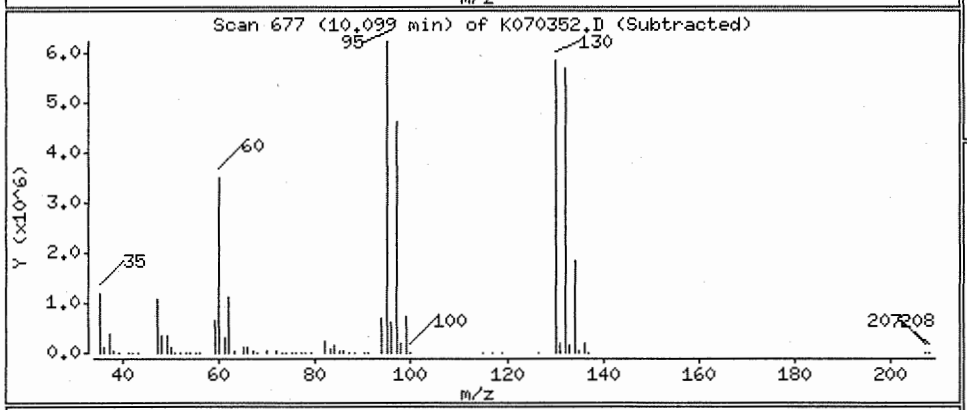
Sample Info: D0700056-004

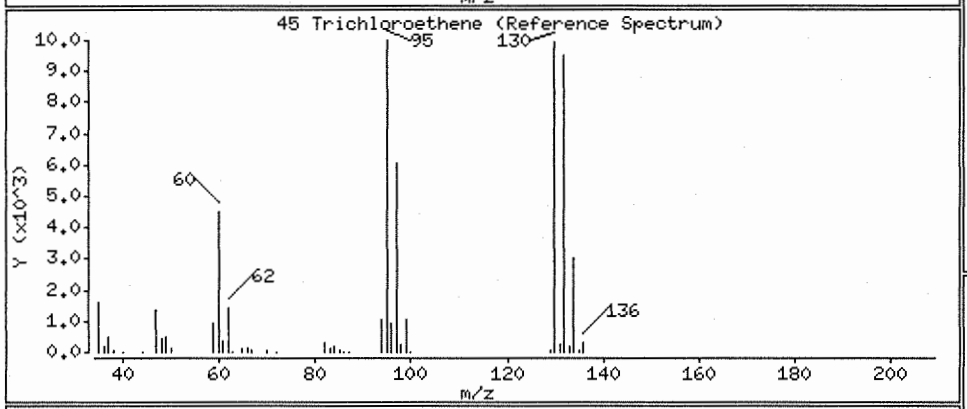
Purge Volume: 10.0 Operator: X

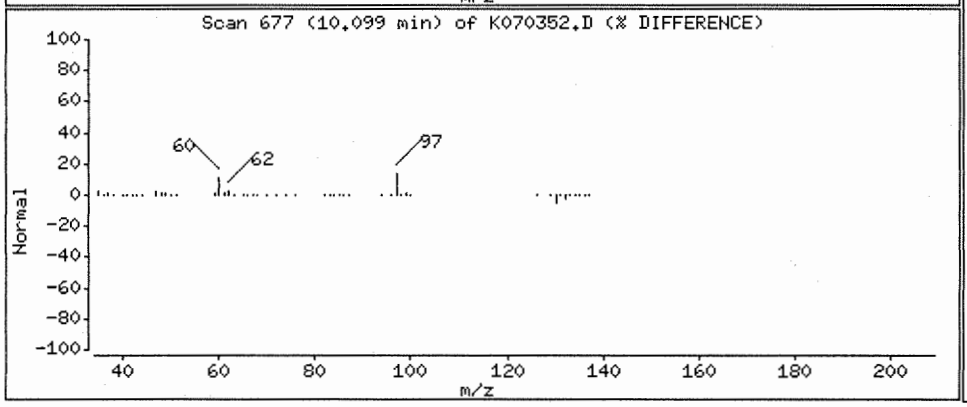
Column phase: DB-624 Column diameter: 0.32

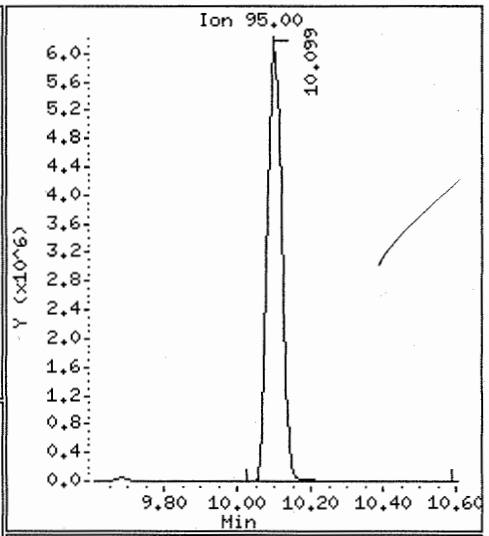
45 Trichloroethene Concentration: 441 ug/L

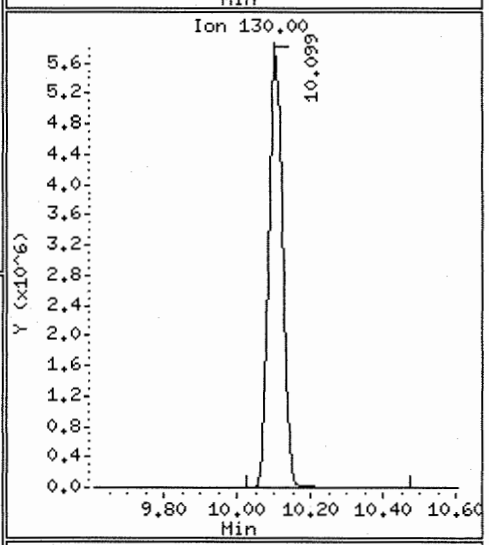


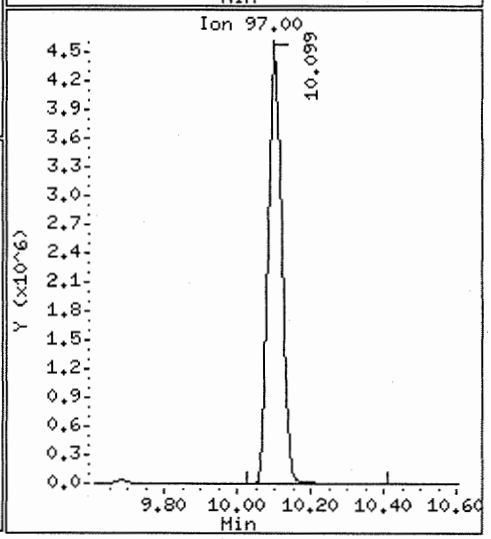












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

Client ID: BLD120-MW-2

Instrument: MSK.i

Sample Info: D0700056-004

Purge Volume: 10.0

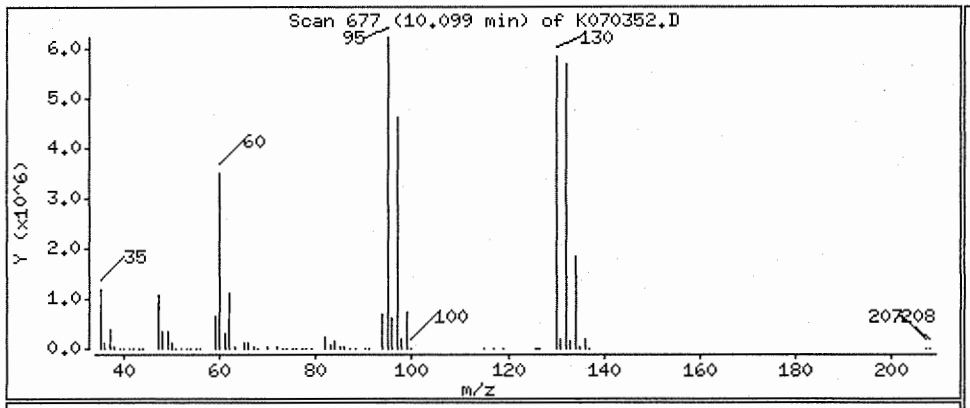
Operator: X

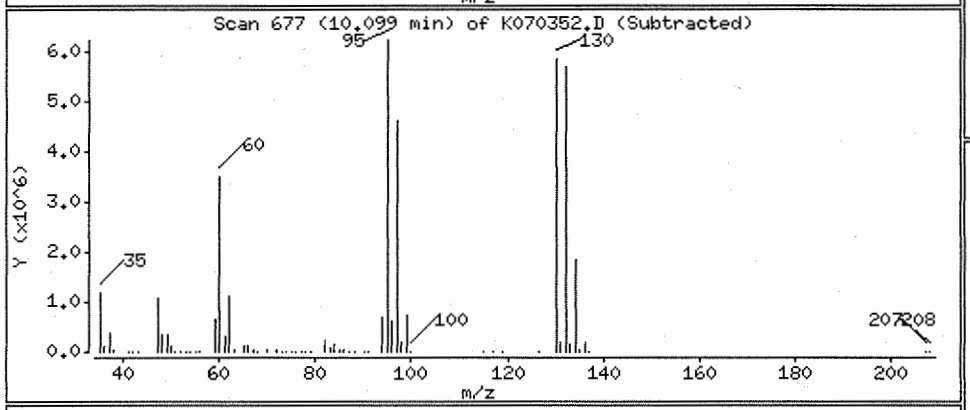
Column phase: DB-624

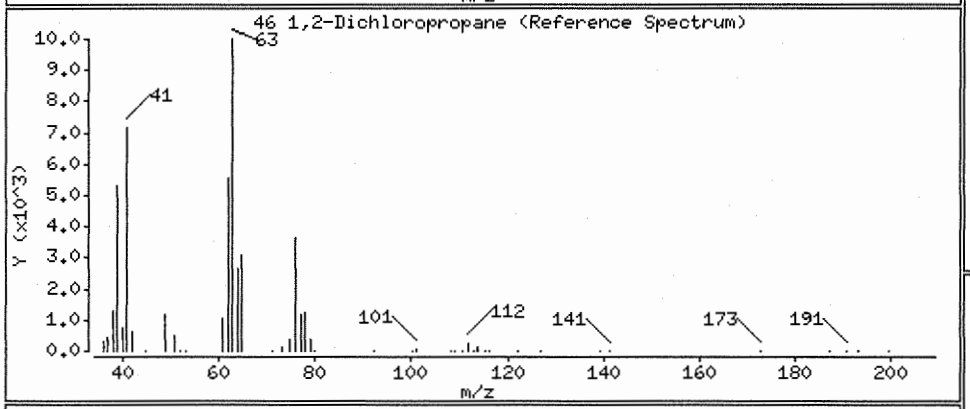
Column diameter: 0.32

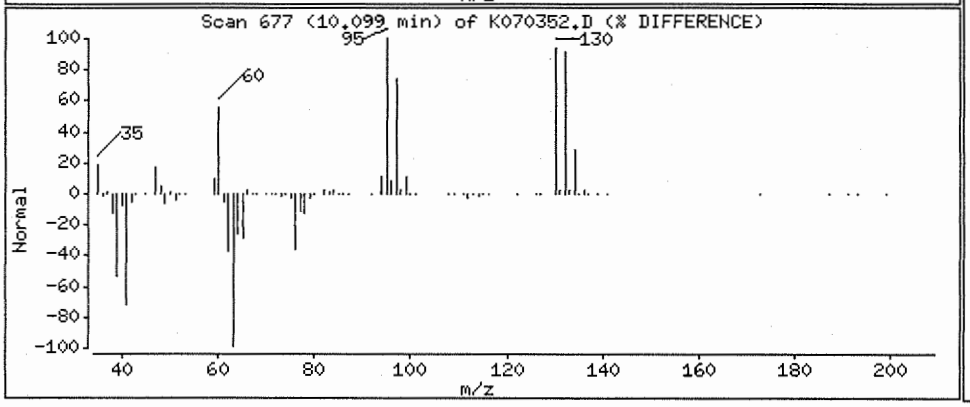
46 1,2-Dichloropropane

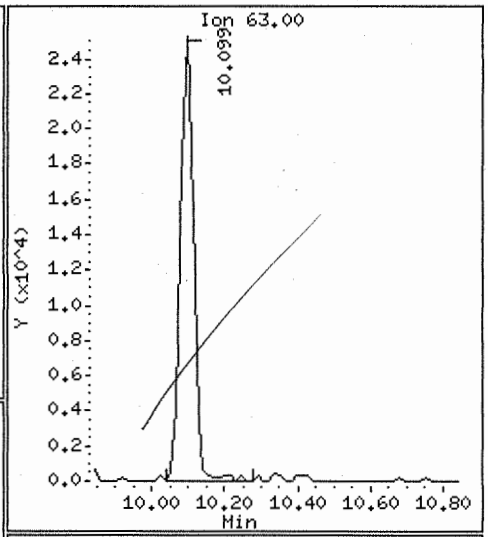
Concentration: 1.61 ug/L

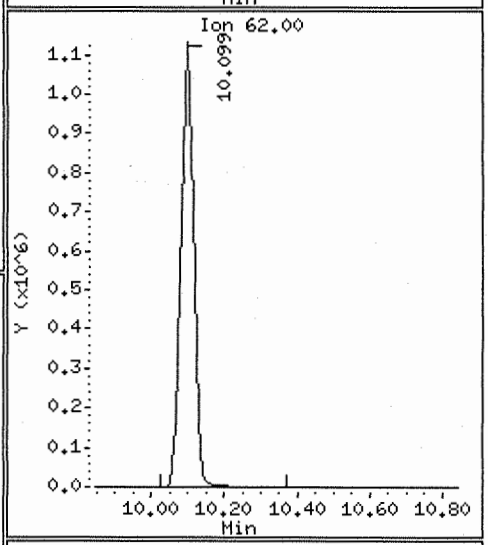


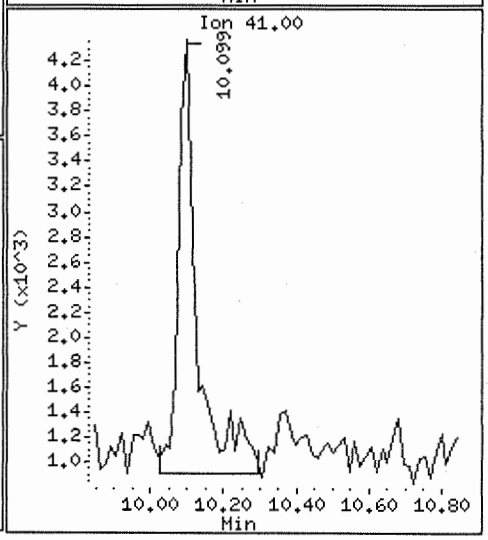












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

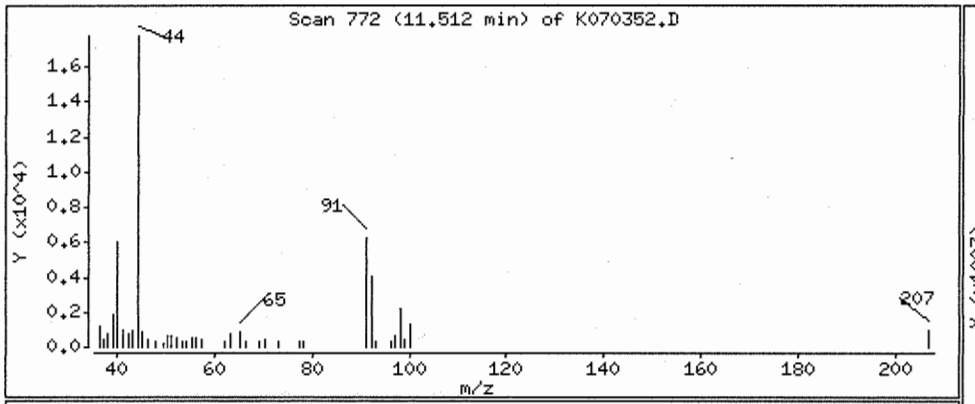
Client ID: BLD120-MW-2 Instrument: MSK.i

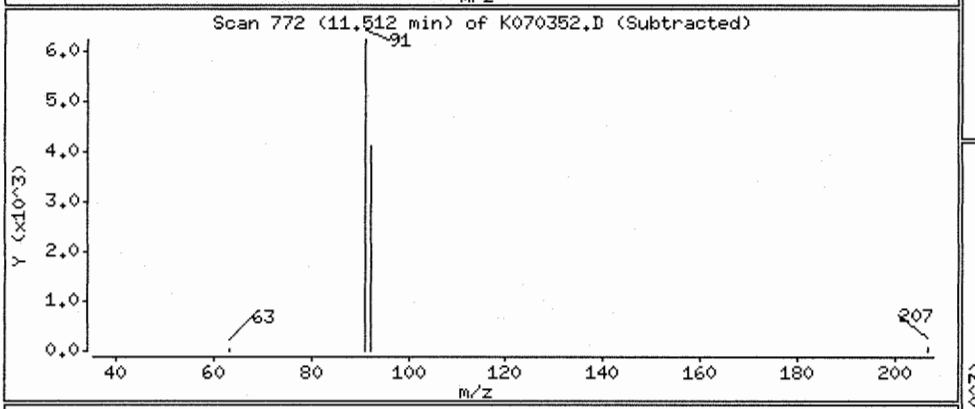
Sample Info: D0700056-004

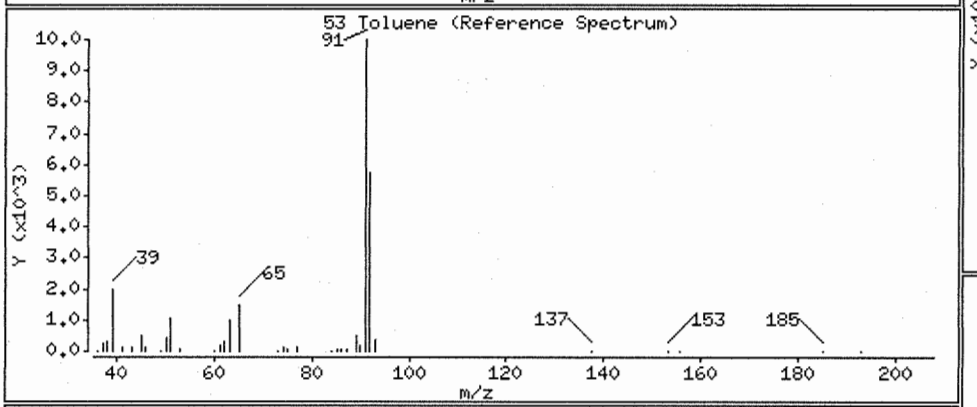
Purge Volume: 10.0 Operator: X

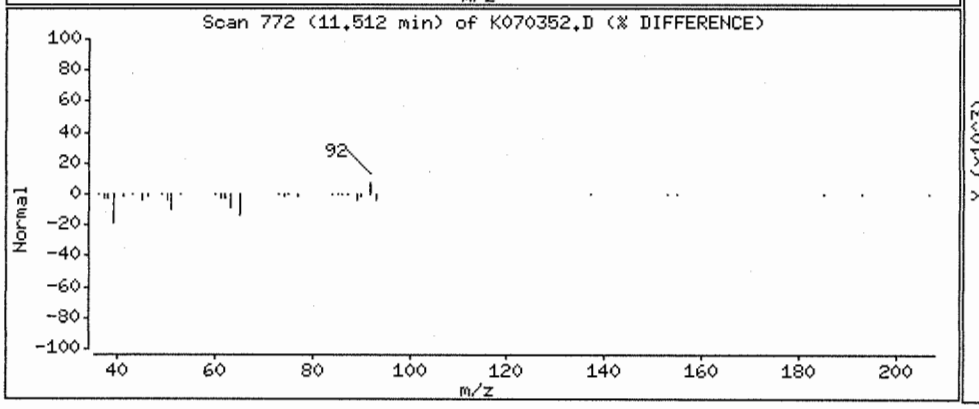
Column phase: DB-624 Column diameter: 0.32

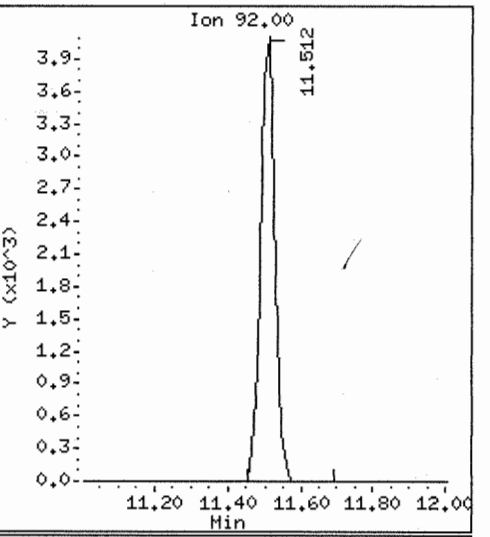
53 Toluene Concentration: 0.142 ug/L

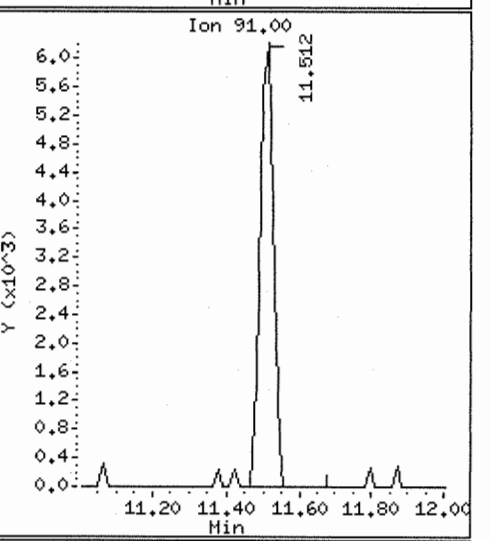


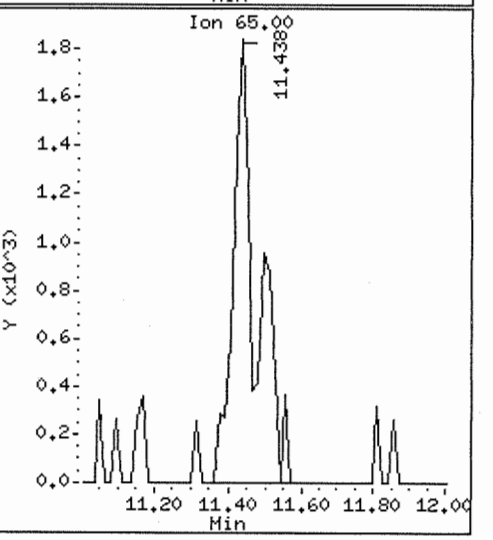












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

Client ID: BLD120-MW-2

Instrument: MSK.i

Sample Info: D0700056-004

Purge Volume: 10.0

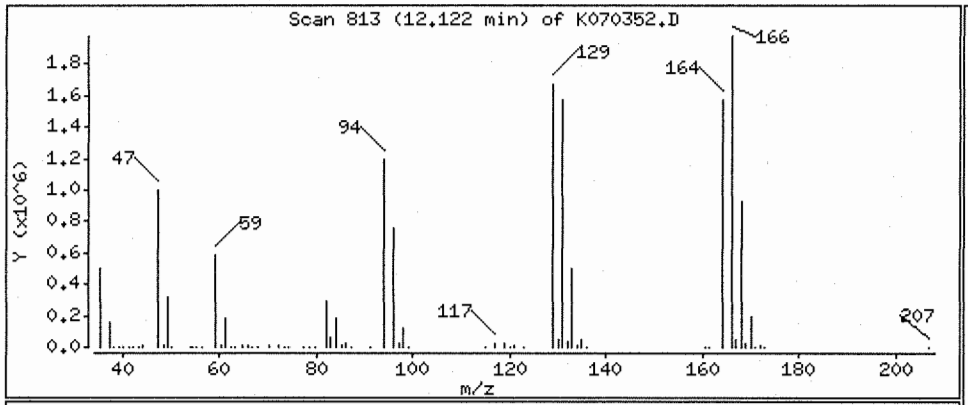
Operator: X

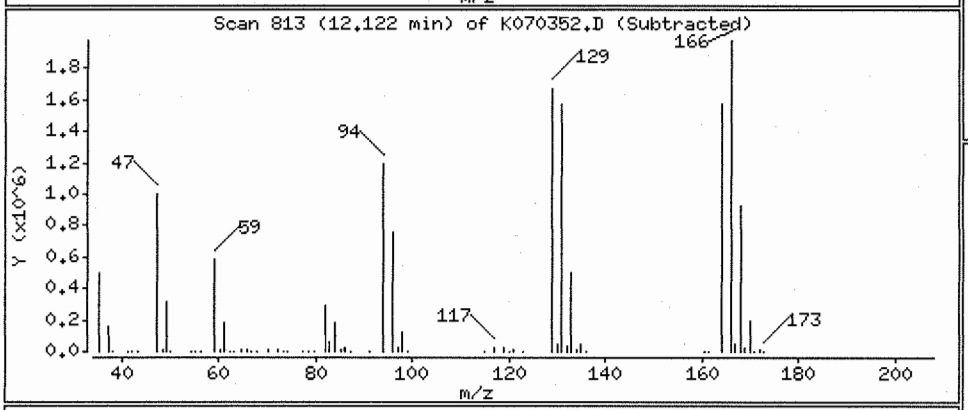
Column phase: DB-624

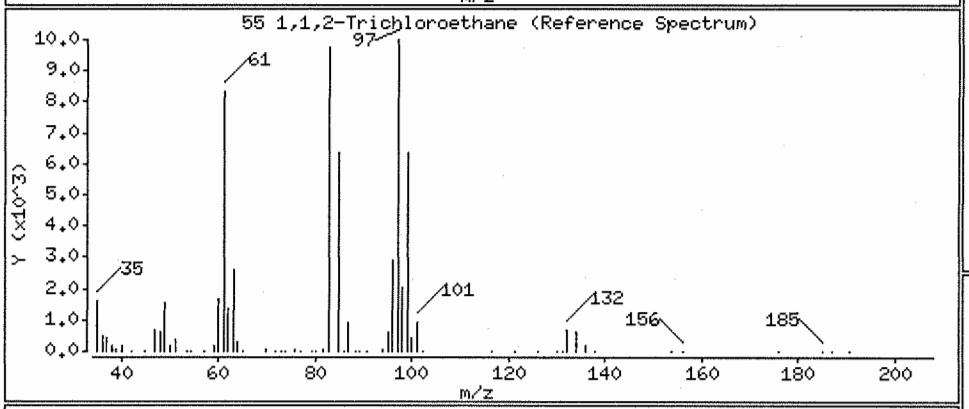
Column diameter: 0.32

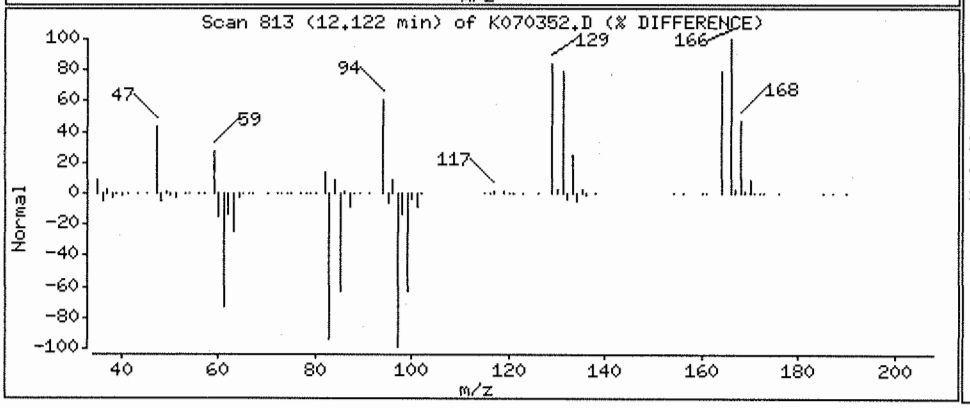
55 1,1,2-Trichloroethane

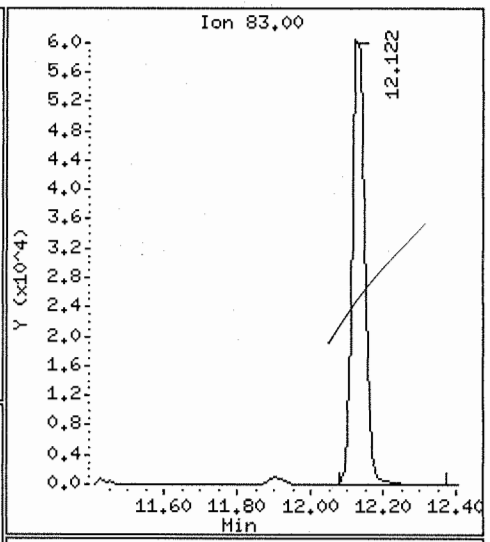
Concentration: 7.32 ug/L

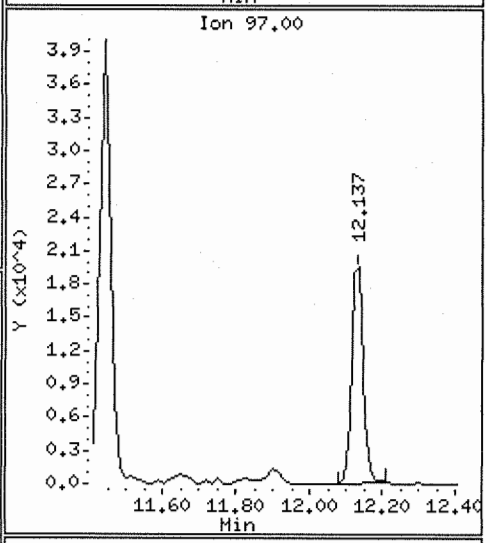


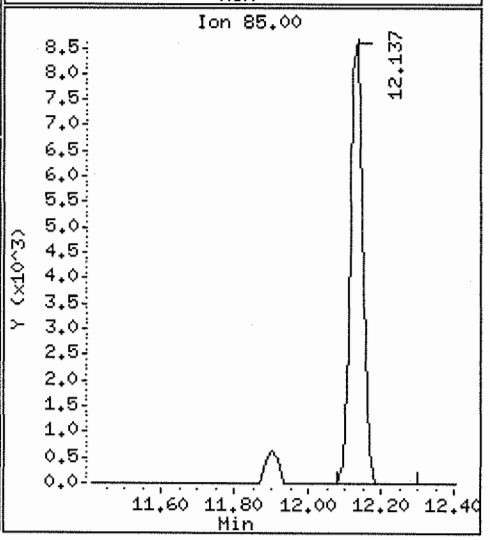












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070352.D

Date : 17-JAN-2007 03:26

Client ID: BLD120-MW-2

Instrument: MSK.i

Sample Info: D0700056-004

Purge Volume: 10.0

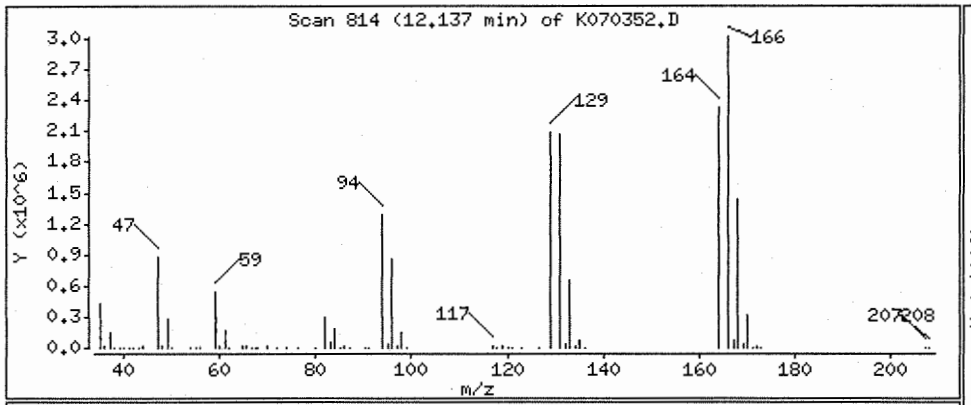
Operator: X

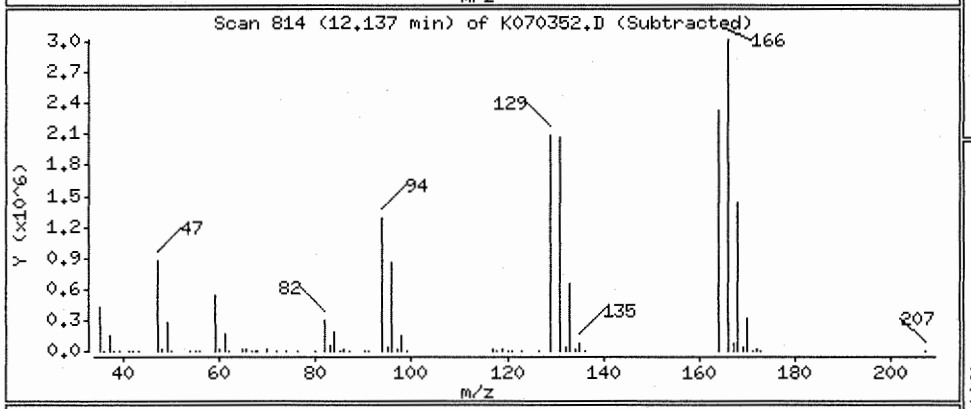
Column phase: DB-624

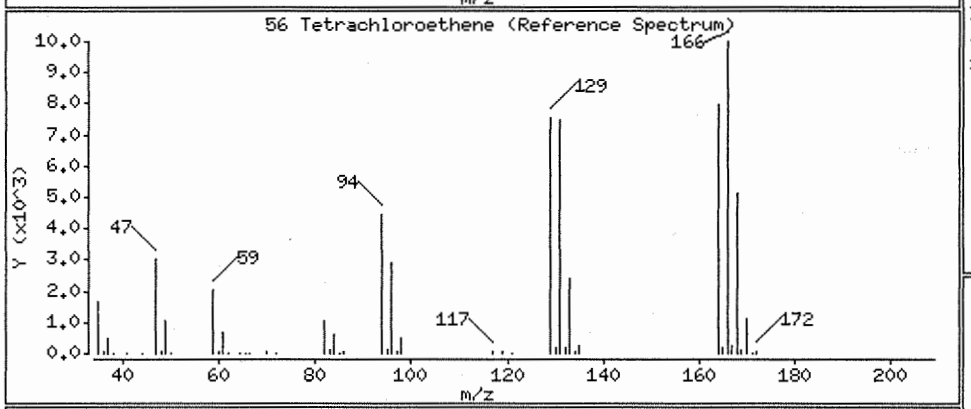
Column diameter: 0.32

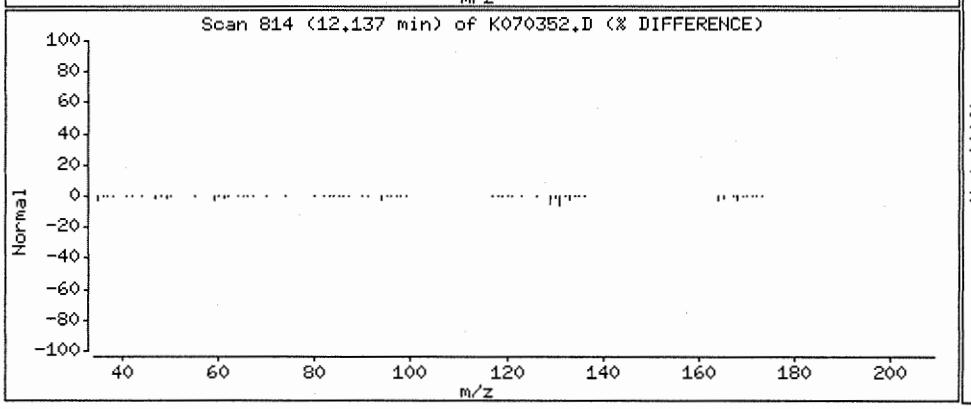
56 Tetrachloroethene

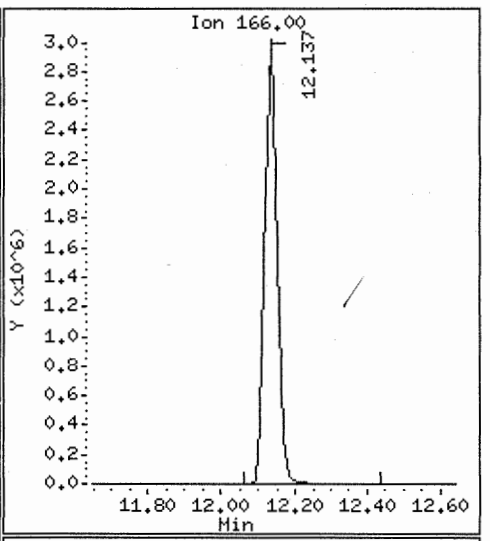
Concentration: 222 ug/L

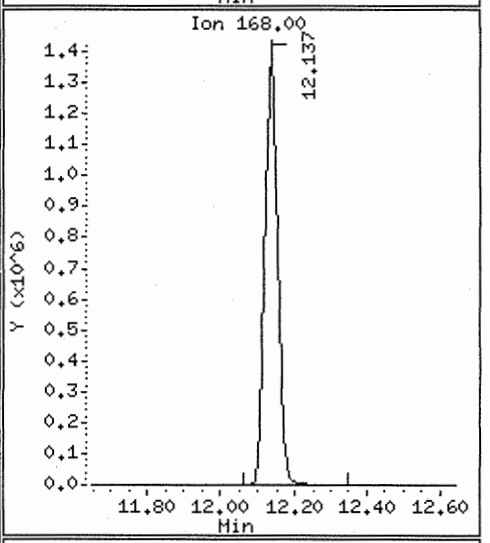


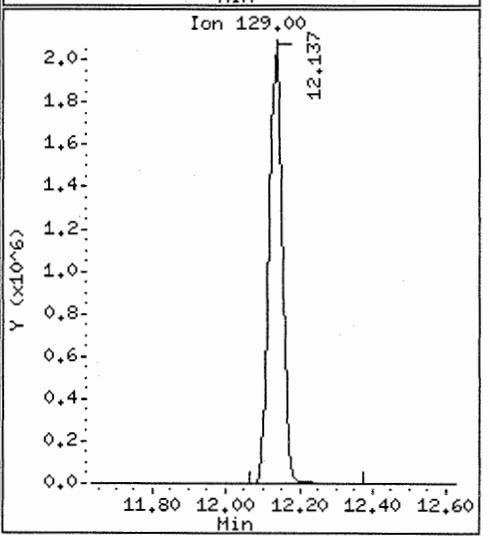












Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D
Lab Smp Id: D0700056-004DL Client Smp ID: BLD120-MW-2DL
Inj Date : 19-JAN-2007 08:55
Operator : X Inst ID: MSK.i
Smp Info : D0700056-004DL
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 7
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

1/19/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.682	9.673	(1.000)	967922	10.0000	
* 2 Chlorobenzene-d5	117	13.029	13.020	(1.000)	638265	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	15.617	15.593	(1.000)	253674	10.0000	
$ 4 Dibromofluoromethane	113	8.879	8.870	(0.917)	318699	10.2163	10.2
$ 5 1,2-Dichloroethane-d4	65	9.296	9.287	(0.960)	329227	11.4719	11.5
$ 6 Toluene-d8	98	11.423	11.414	(0.877)	814953	9.84173	9.84
$ 7 Bromofluorobenzene	174	14.293	14.284	(0.915)	230685	10.0508	10.0
8 Dichlorodifluoromethane	85	Compound Not Detected.					
10 Chloromethane	50	Compound Not Detected.					
11 Vinyl chloride	62	Compound Not Detected.					
12 Bromomethane	94	4.655	4.646	(0.481)	1138	0.67834	33.9(a)
13 Chloroethane	64	4.744	4.810	(0.490)	2645	0.20969	10.5(a)
14 Trichlorofluoromethane	101	Compound Not Detected.					
15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene	96	6.053	6.044	(0.625)	5244	0.22409	11.2(aQ)
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene chloride	84	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	7.094	7.085	(0.733)	18378	0.63419	31.7
27 tert-Butylmethylether	73	Compound Not Detected.					
28 1,1-Dichloroethane	63	Compound Not Detected.					
30 Vinyl acetate	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	32 2,2-Dichloropropane	77	Compound Not Detected.					
	33 cis-1,2-Dichloroethene	96	8.344	8.335	(0.862)	955932	30.0497	1500
	35 2-Butanone	43	Compound Not Detected.					
	36 Bromochloromethane	128	Compound Not Detected.					
	37 Chloroform	83	8.686	8.677	(0.897)	9832	0.19055	9.53(a)
	38 1,1,1-Trichloroethane	97	Compound Not Detected.					
	40 1,1-Dichloropropene	75	Compound Not Detected.					
	41 Carbon tetrachloride	119	Compound Not Detected.					
	43 Benzene	78	Compound Not Detected.					
	44 1,2-Dichloroethane	62	9.682	9.361	(1.000)	13007	0.35971	~~18.0(a)~~
	45 Trichloroethene	95	10.099	10.090	(1.043)	273240	9.05867	453
	46 1,2-Dichloropropane	63	Compound Not Detected.					
	48 Dibromomethane	93	Compound Not Detected.					
	49 Bromodichloromethane	83	Compound Not Detected.					
	51 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	52 4-Methyl-2-pentanone	43	Compound Not Detected.					
	53 Toluene	92	Compound Not Detected.					
	54 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	55 1,1,2-Trichloroethane	83	Compound Not Detected.					
	56 Tetrachloroethene	166	12.137	12.128	(0.931)	98843	4.14504	207
	57 1,3-Dichloropropane	76	Compound Not Detected.					
	58 2-Hexanone	43	Compound Not Detected.					
	59 Dibromochloromethane	129	Compound Not Detected.					
	60 1,2-Dibromoethane	107	Compound Not Detected.					
	62 Chlorobenzene	112	Compound Not Detected.					
	63 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	64 Ethylbenzene	91	Compound Not Detected.					
	65 m-,p-Xylene	106	Compound Not Detected.					
	66 o-Xylene	106	Compound Not Detected.					
M	67 Xylene (total)	106	Compound Not Detected.					
	68 Styrene	104	Compound Not Detected.					
	69 Bromoform	173	Compound Not Detected.					
	70 Isopropylbenzene	105	Compound Not Detected.					
	71 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	72 Bromobenzene	156	Compound Not Detected.					
	73 1,2,3-Trichloropropane	110	Compound Not Detected.					
	74 n-Propylbenzene	120	Compound Not Detected.					
	76 2-Chlorotoluene	126	Compound Not Detected.					
	78 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	79 4-Chlorotoluene	126	Compound Not Detected.					
	80 tert-Butylbenzene	119	Compound Not Detected.					
	81 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	82 sec-Butylbenzene	105	Compound Not Detected.					
	83 1,3-Dichlorobenzene	146	Compound Not Detected.					
	84 p-Isopropyltoluene	119	Compound Not Detected.					
	85 1,4-Dichlorobenzene	146	Compound Not Detected.					
	87 n-Butylbenzene	91	Compound Not Detected.					
	88 1,2-Dichlorobenzene	146	Compound Not Detected.					
	89 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
	90 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	91 Hexachlorobutadiene	225	Compound Not Detected.					
	92 Naphthalene	128	Compound Not Detected.					
	93 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

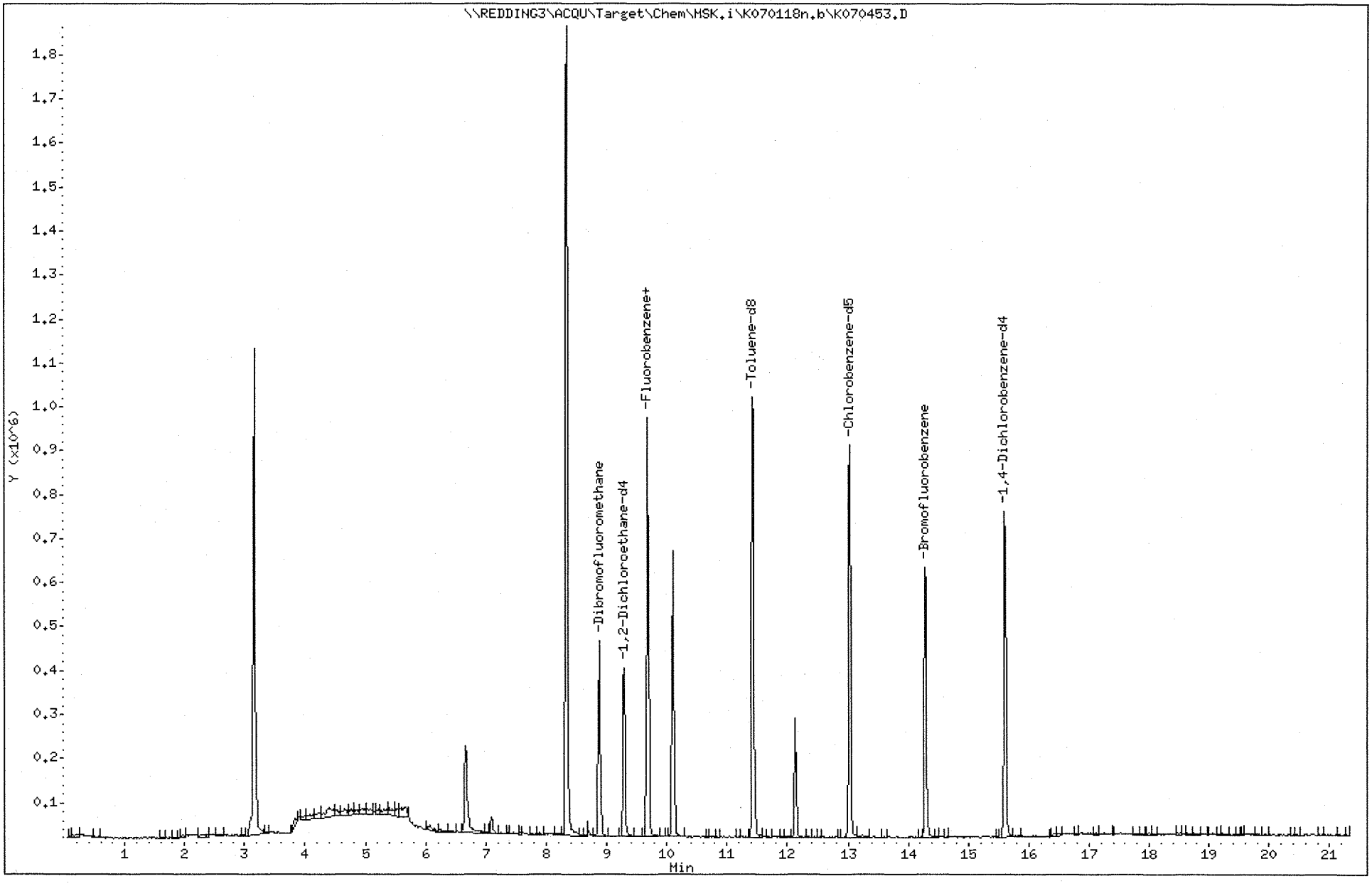
Sample Info: D0700056-004DL

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

Sample Info: D0700056-004DL

Purge Volume: 10.0

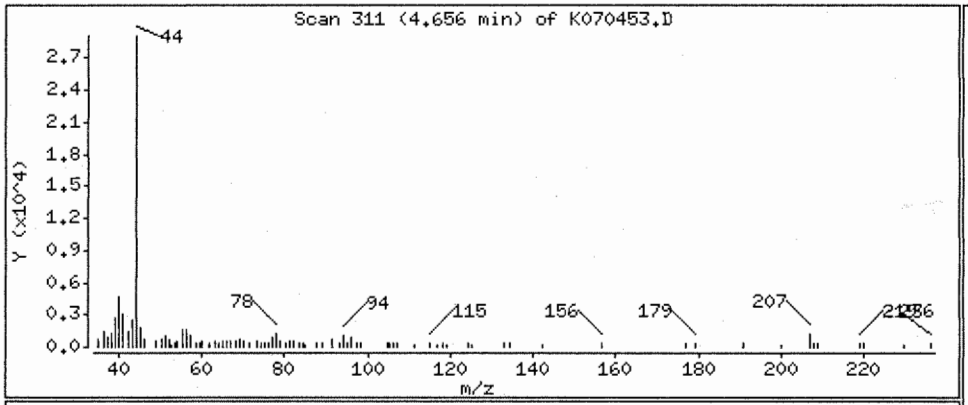
Operator: X

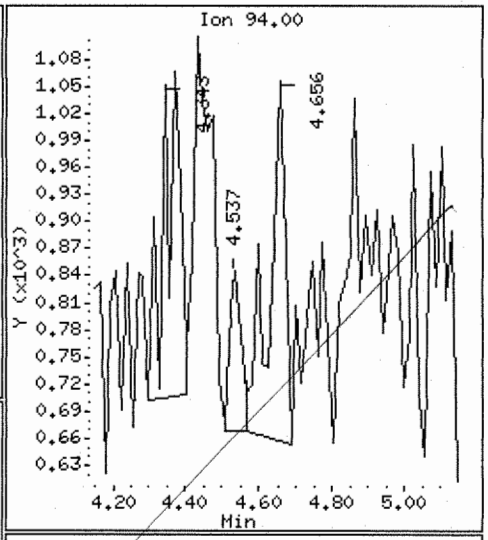
Column phase: DB-624

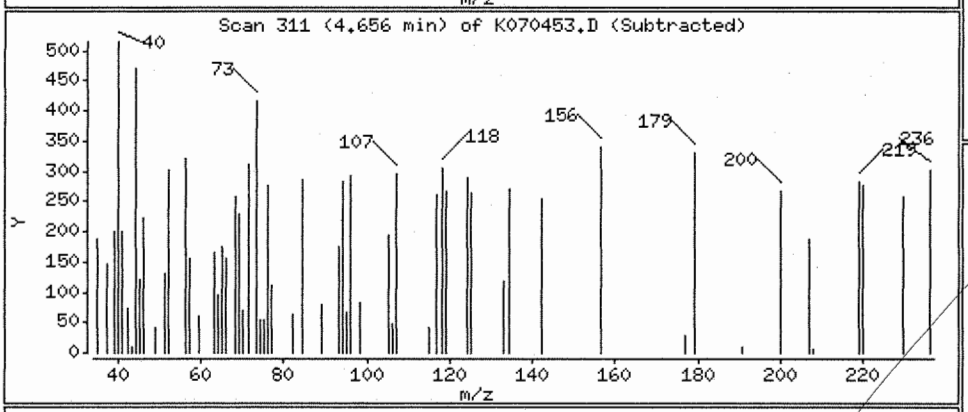
Column diameter: 0.32

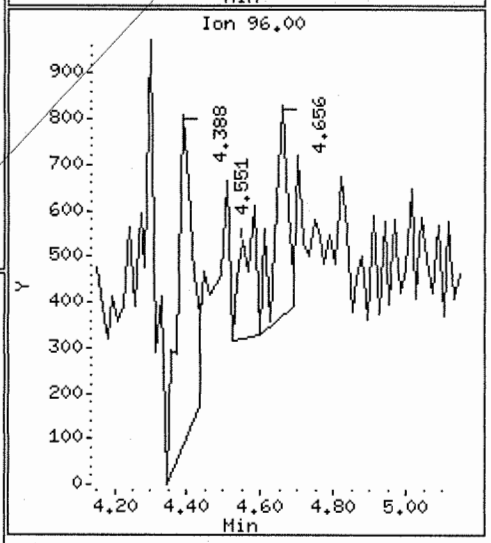
12 Bromomethane

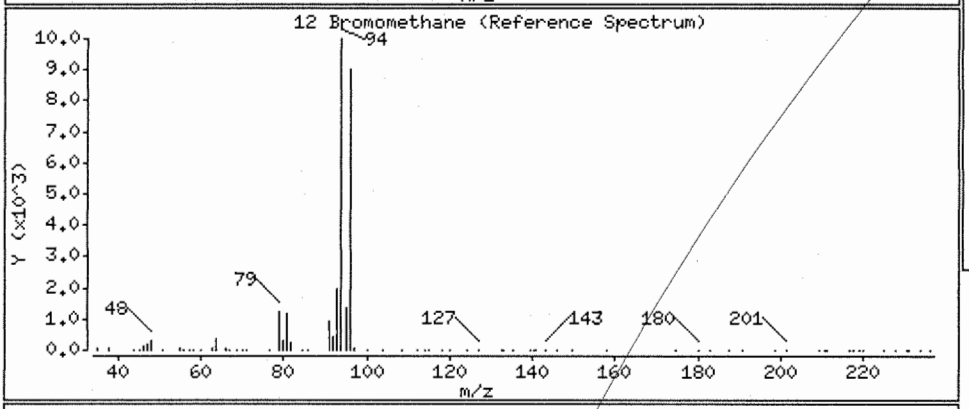
Concentration: 33.9 ug/L

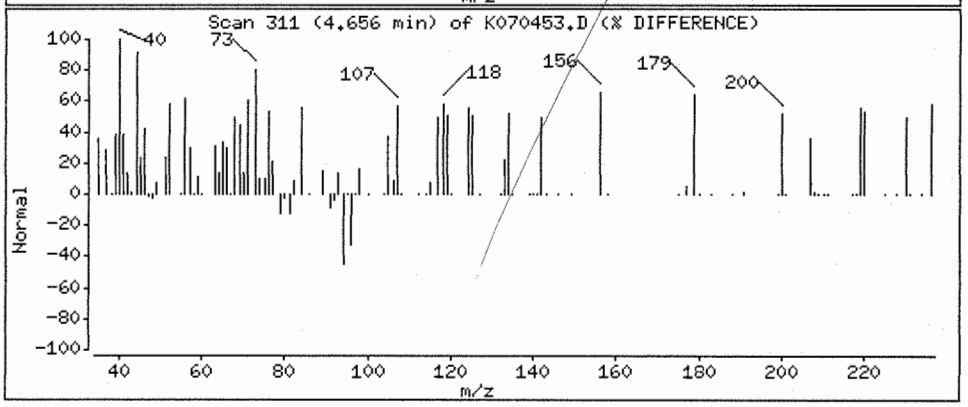












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

Sample Info: D0700056-004DL

Purge Volume: 10.0

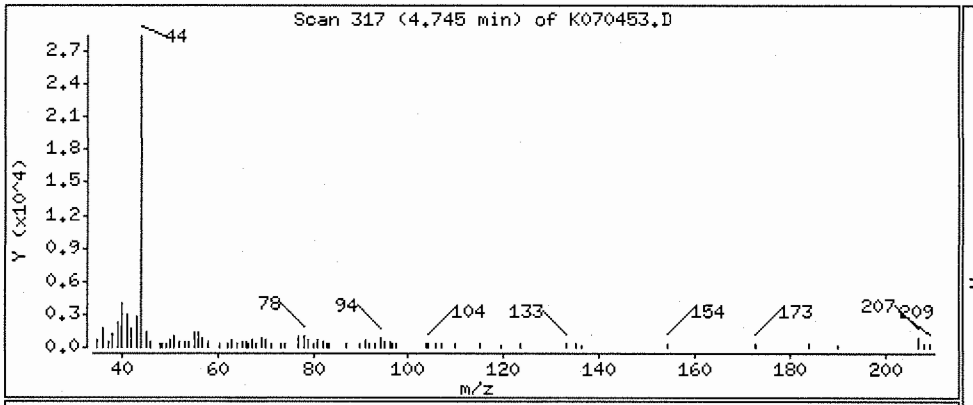
Operator: X

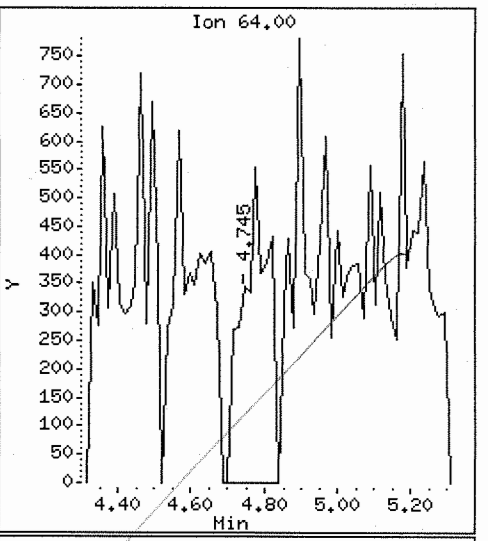
Column phase: DB-624

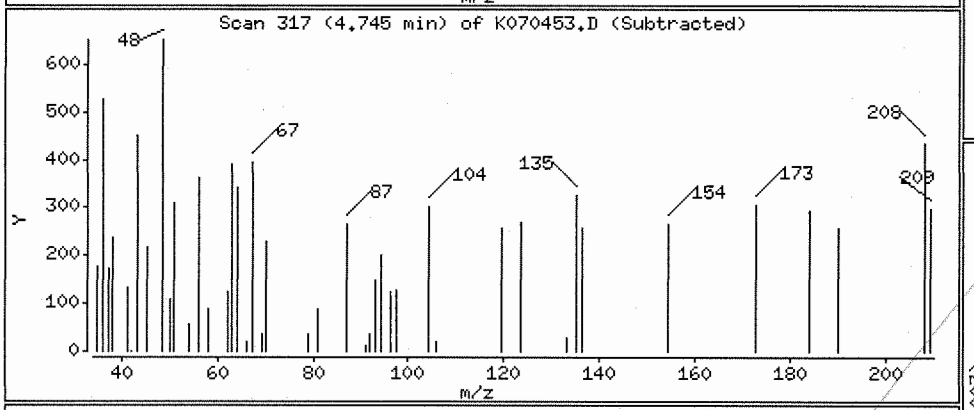
Column diameter: 0.32

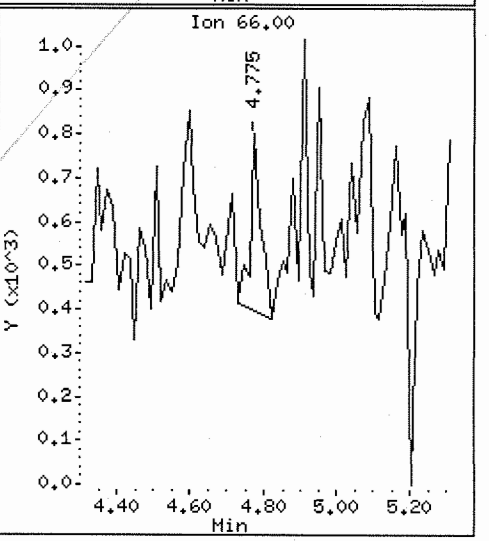
13 Chloroethane

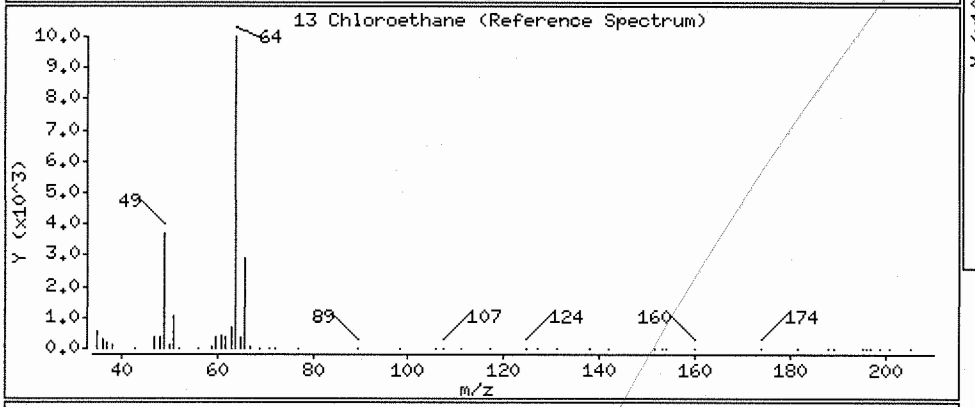
Concentration: 10.5 ug/L

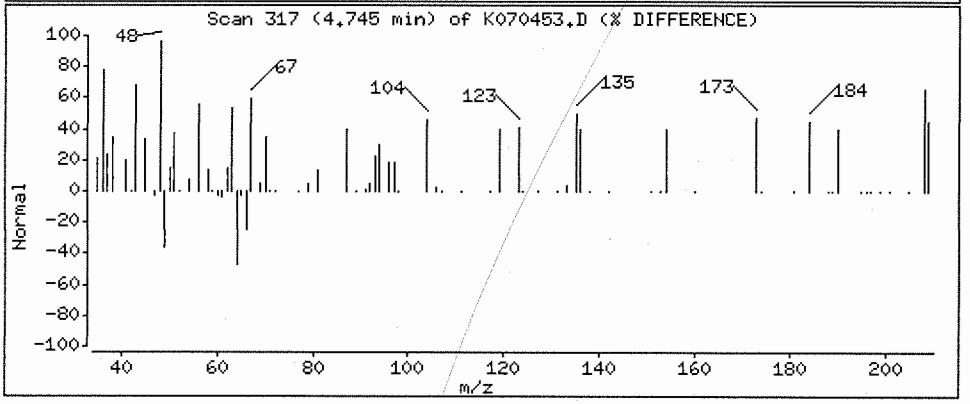












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

Sample Info: D0700056-004DL

Purge Volume: 10.0

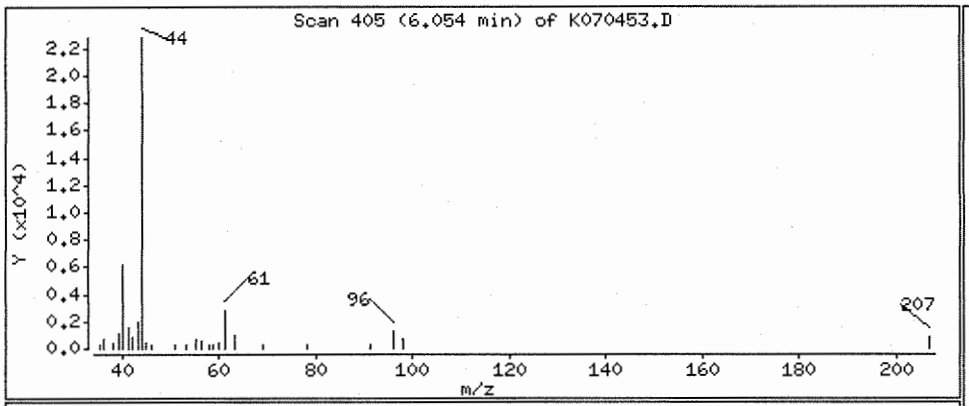
Operator: X

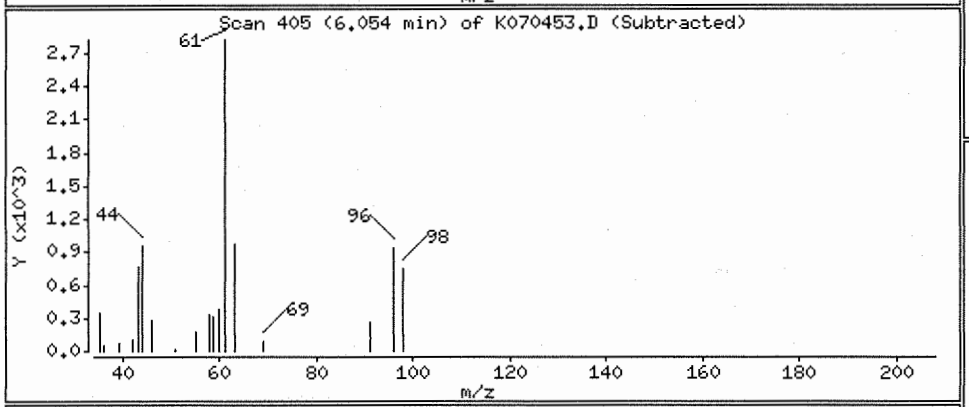
Column phase: DB-624

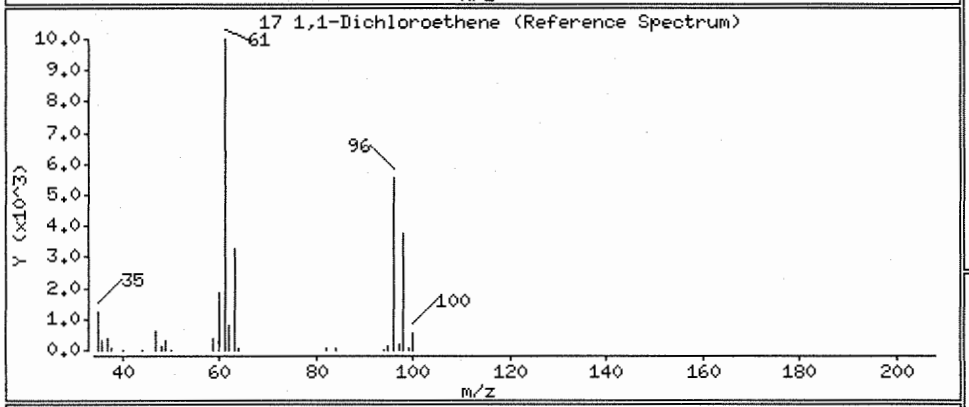
Column diameter: 0.32

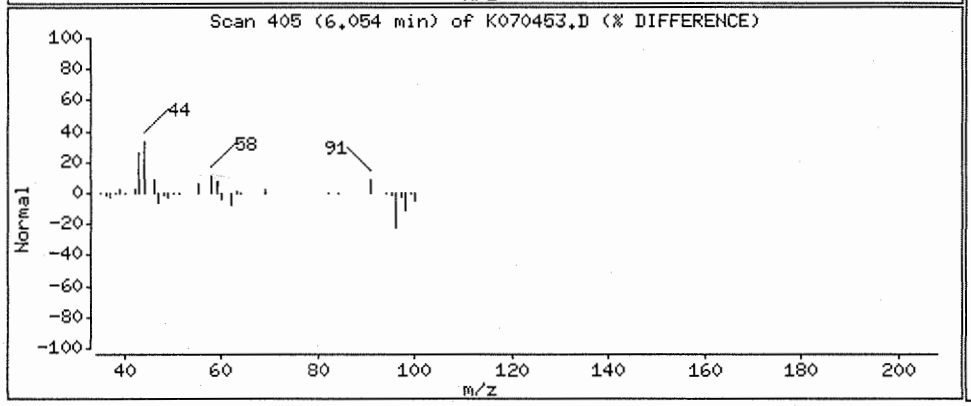
17 1,1-Dichloroethene

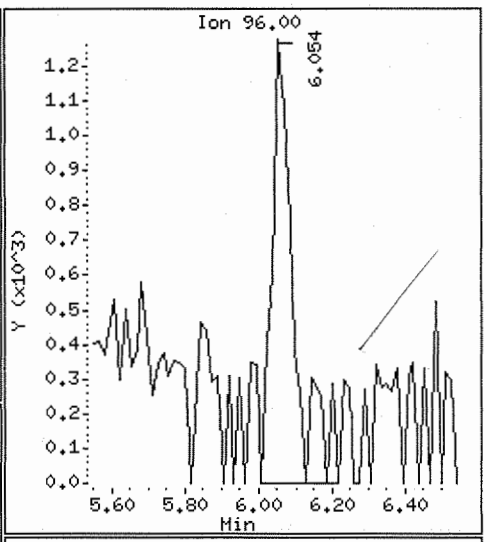
Concentration: 11.2 ug/L

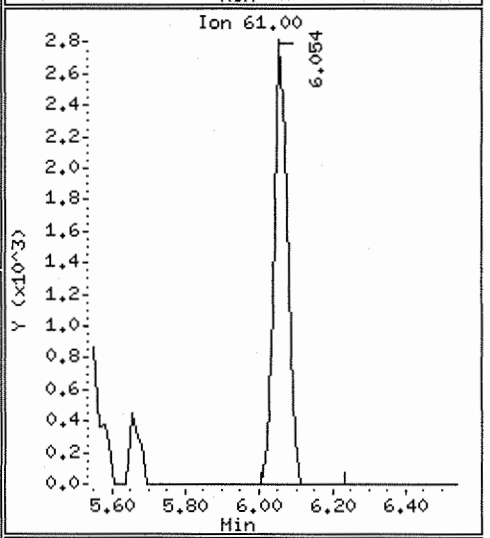


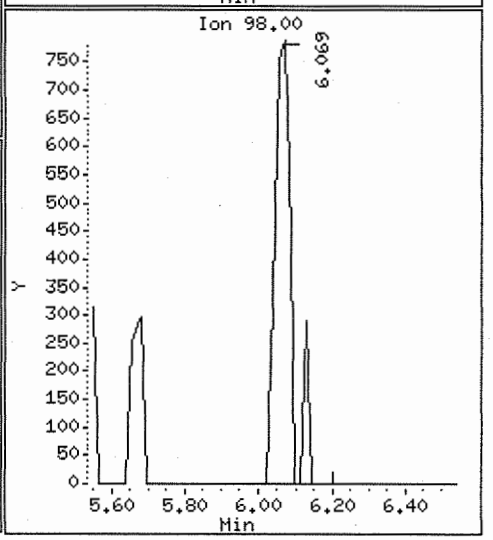












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

Sample Info: D0700056-004DL

Purge Volume: 10.0

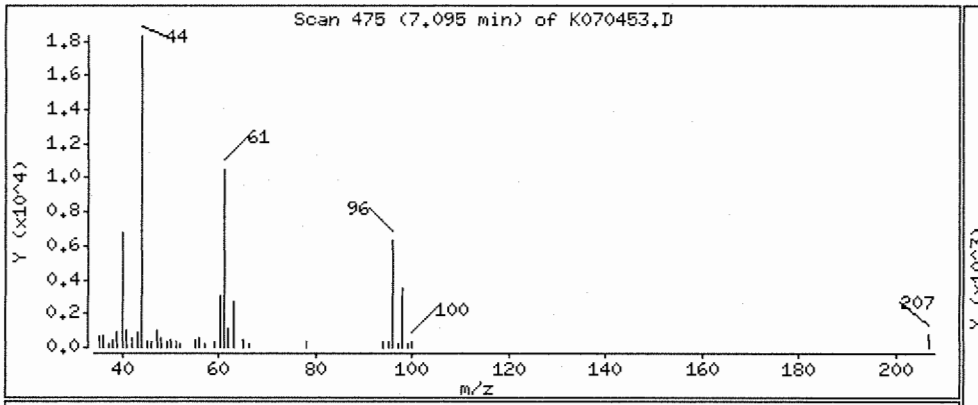
Operator: X

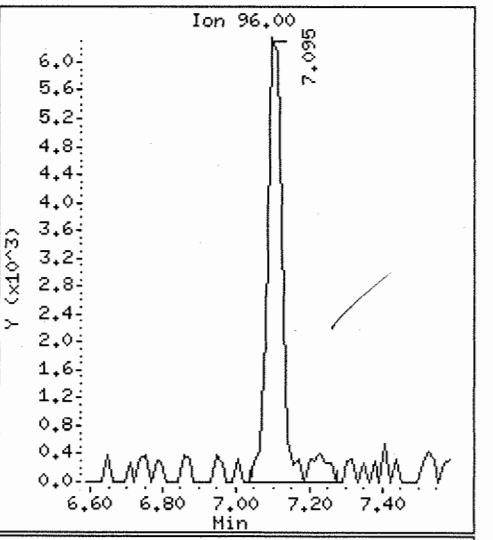
Column phase: DB-624

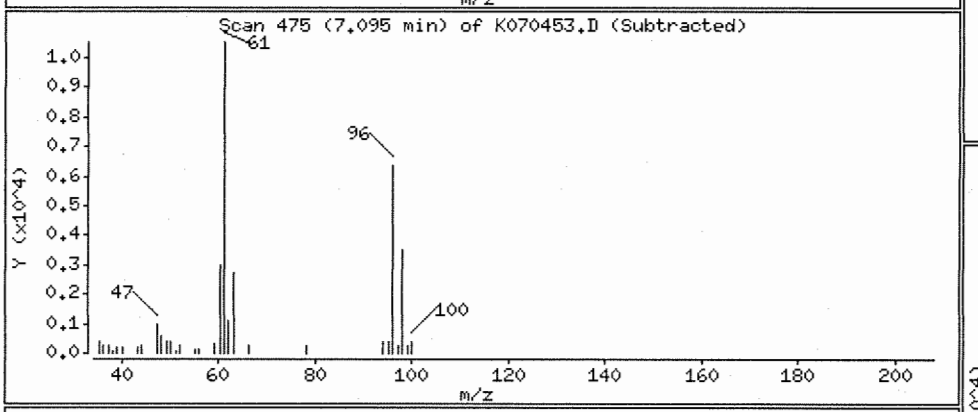
Column diameter: 0.32

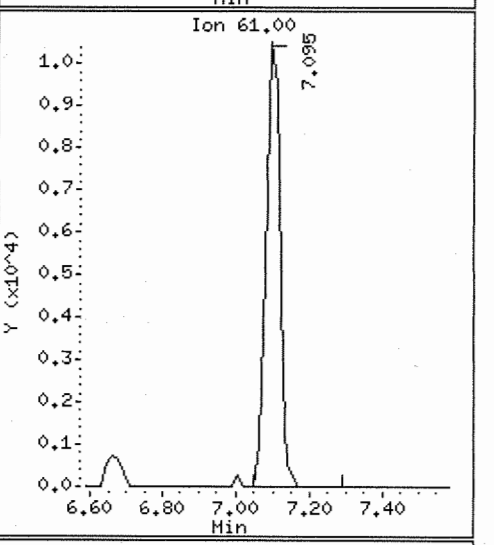
26 trans-1,2-Dichloroethene

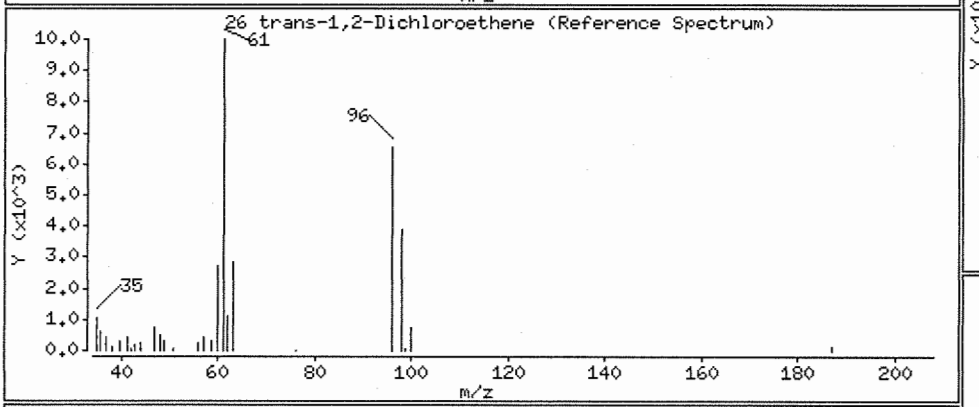
Concentration: 31.7 ug/L

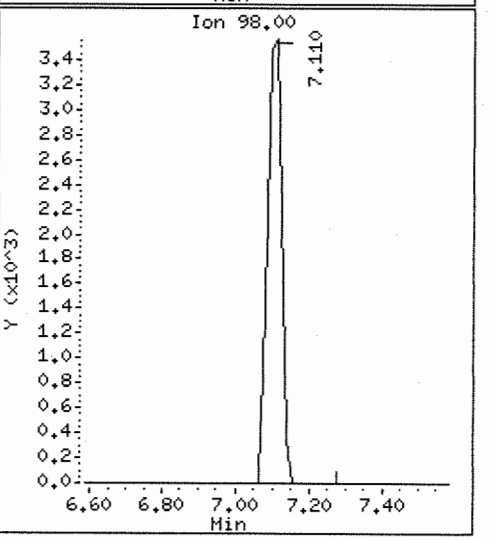


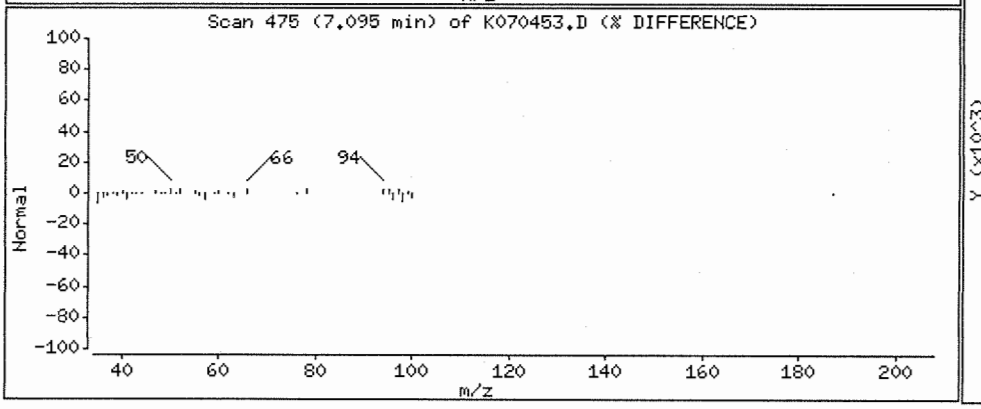












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

Sample Info: D0700056-004DL

Purge Volume: 10.0

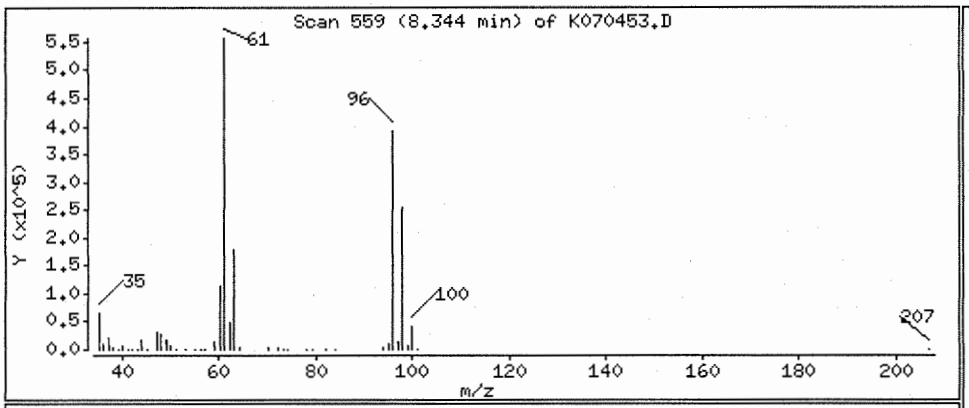
Operator: X

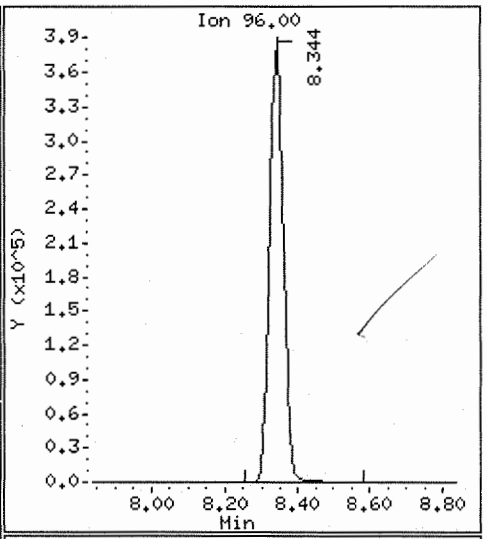
Column phase: DB-624

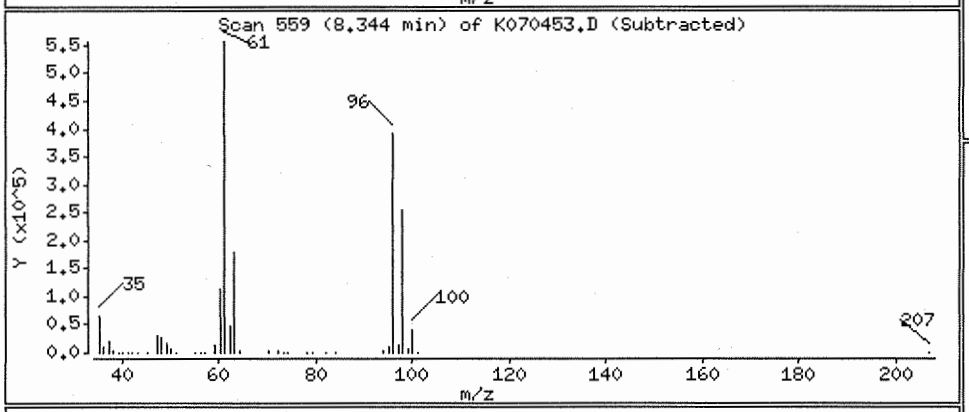
Column diameter: 0.32

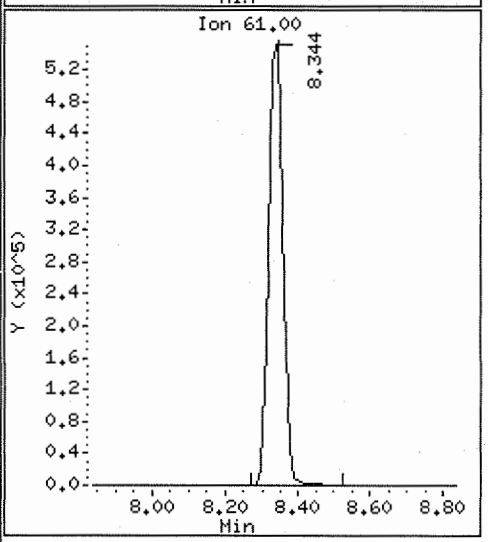
33 cis-1,2-Dichloroethene

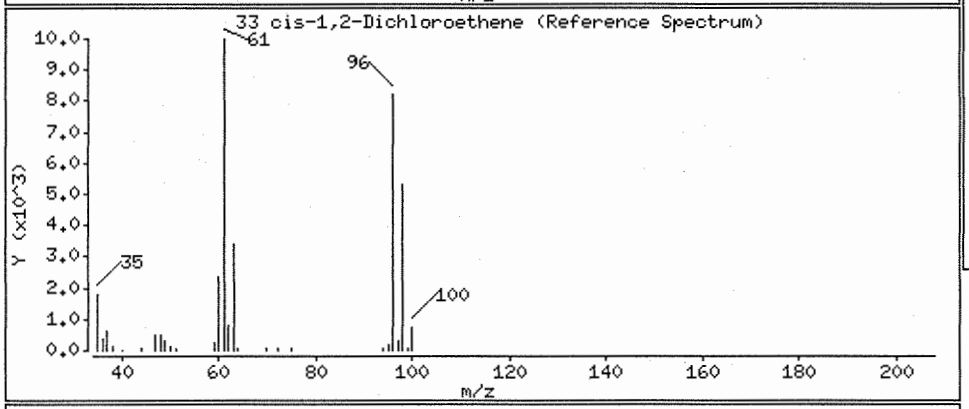
Concentration: 1500 ug/L

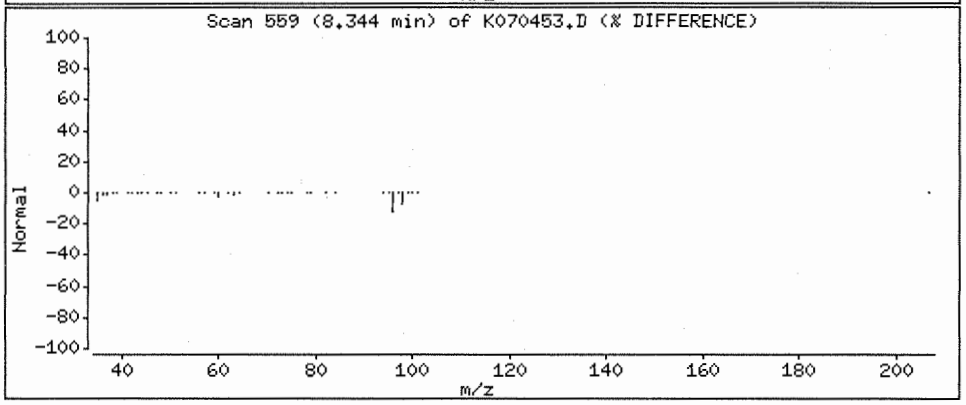












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

Sample Info: D0700056-004DL

Purge Volume: 10.0

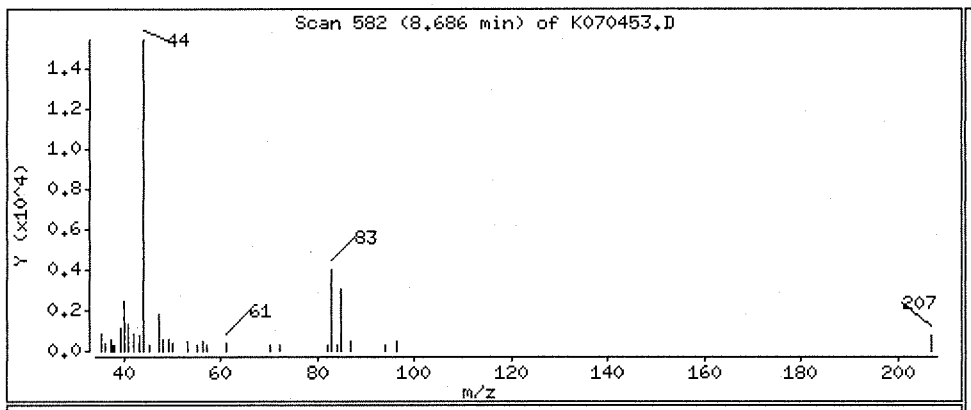
Operator: X

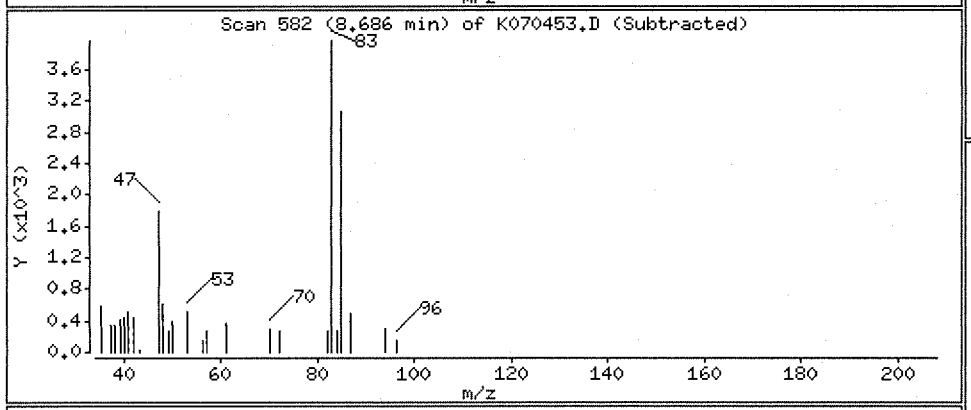
Column phase: DB-624

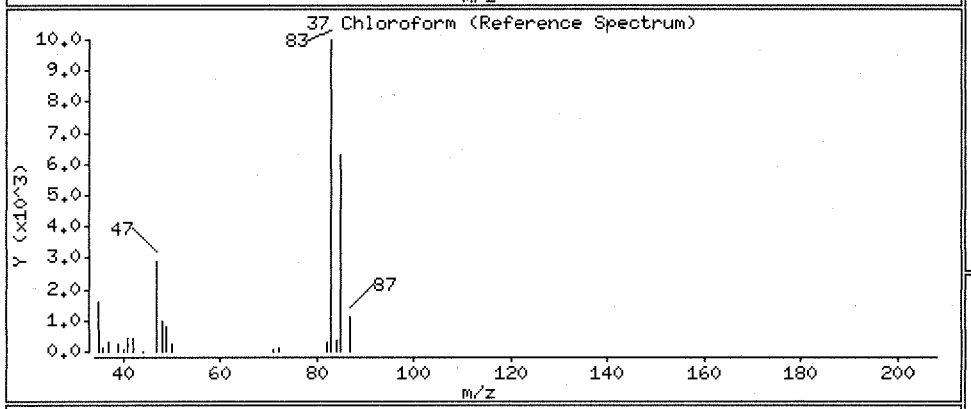
Column diameter: 0.32

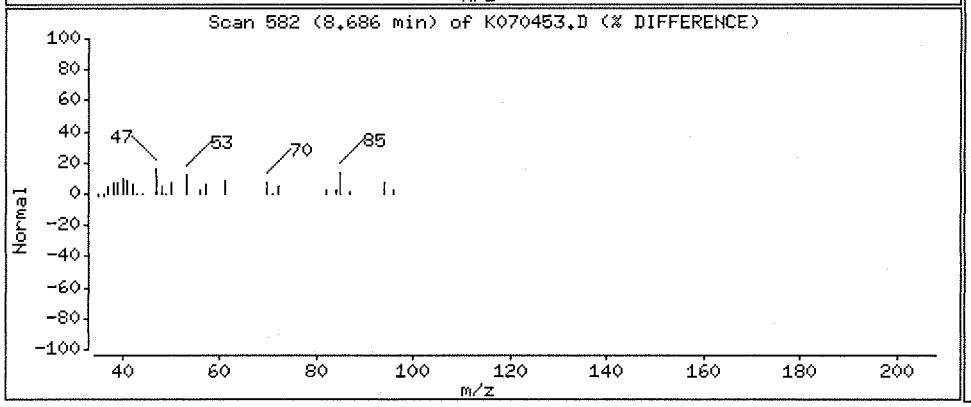
37 Chloroform

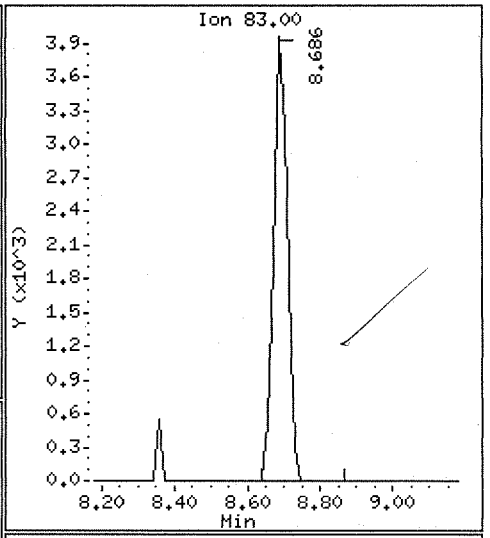
Concentration: 9.53 ug/L

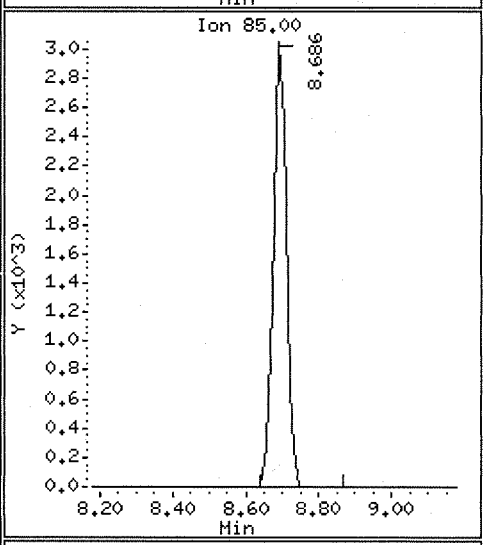


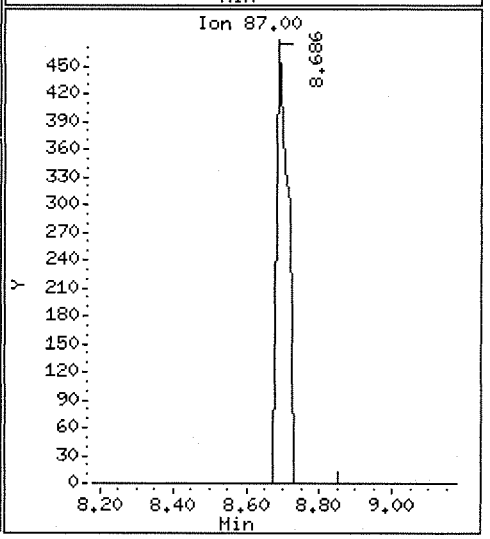












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

Sample Info: D0700056-004DL

Purge Volume: 10.0

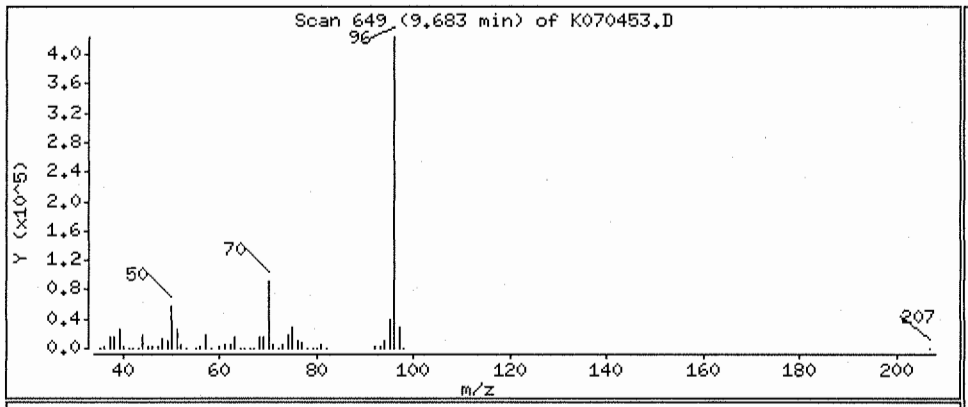
Operator: X

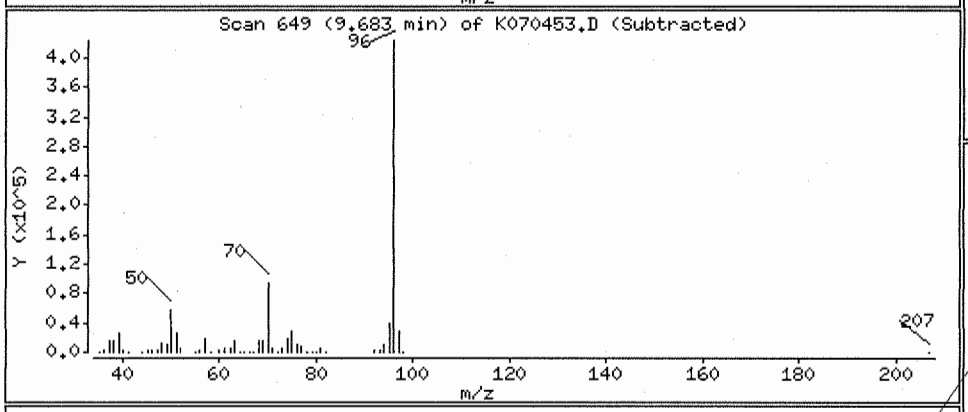
Column phase: DB-624

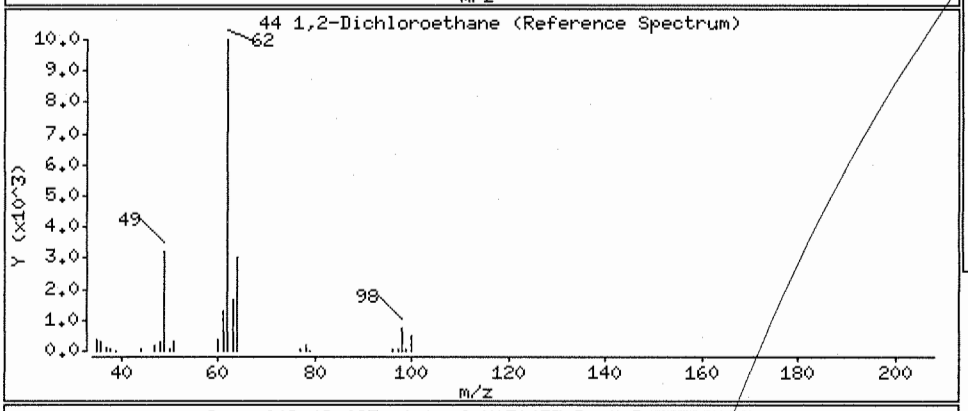
Column diameter: 0.32

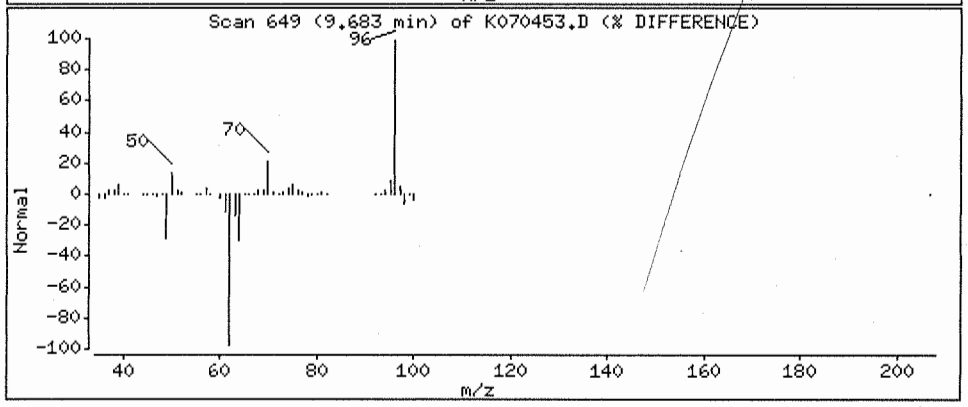
44 1,2-Dichloroethane

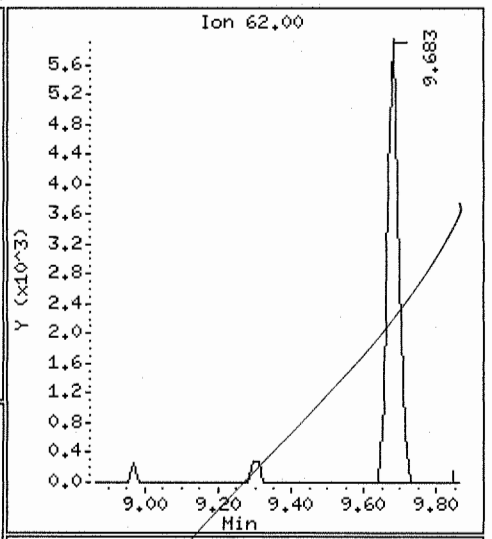
Concentration: 18.0 ug/L

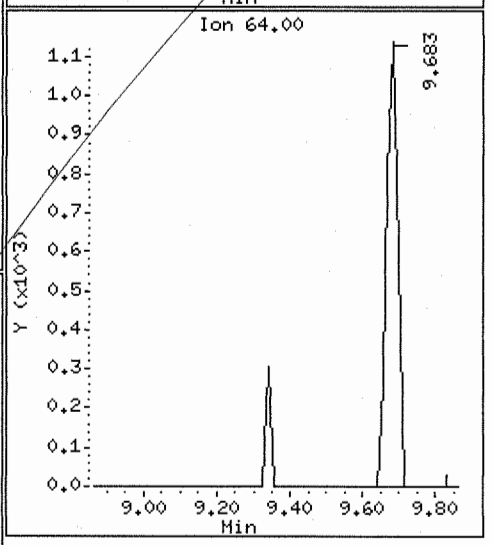












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

Sample Info: D0700056-004DL

Purge Volume: 10.0

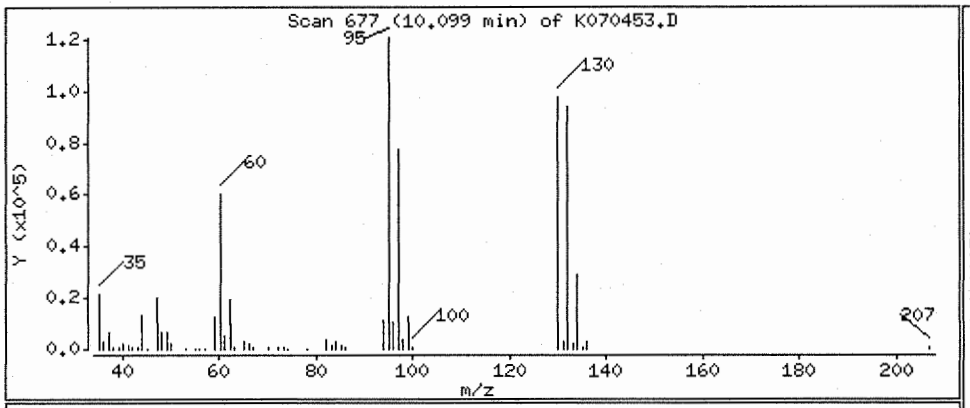
Operator: X

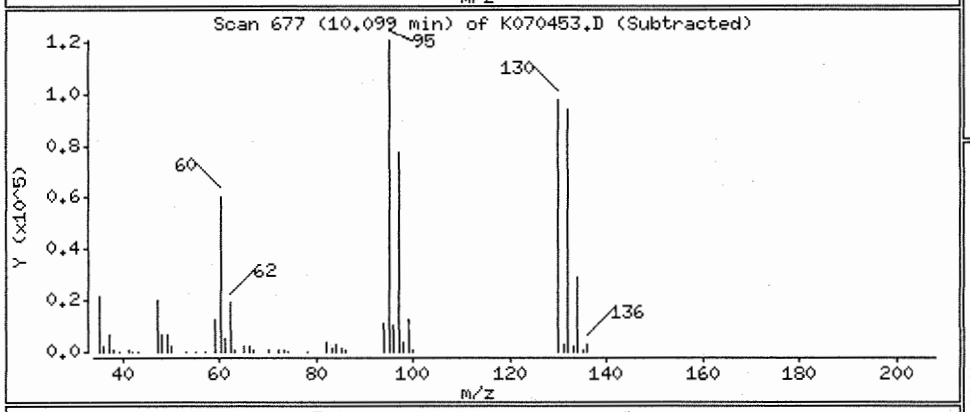
Column phase: DB-624

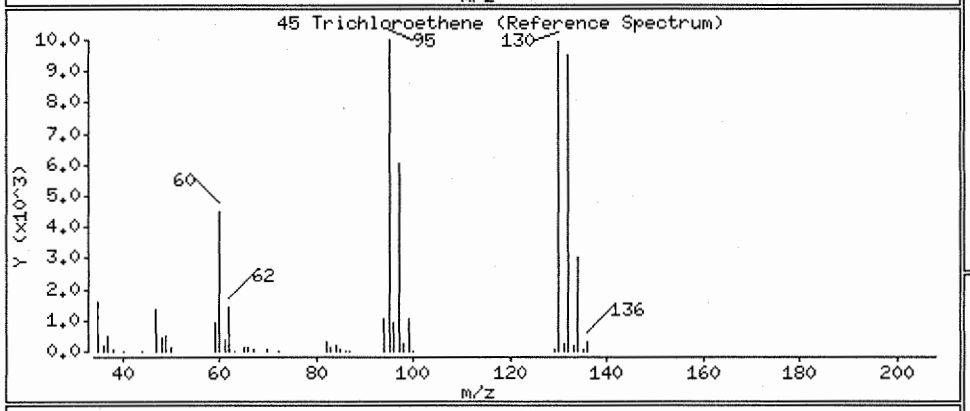
Column diameter: 0.32

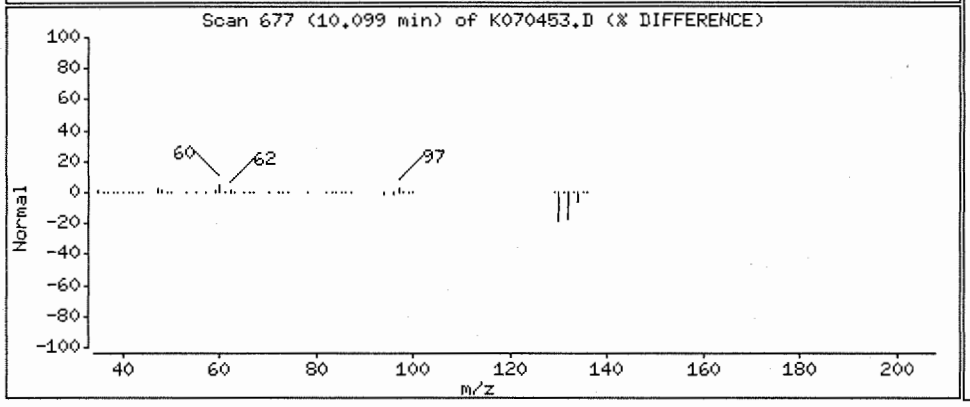
45 Trichloroethene

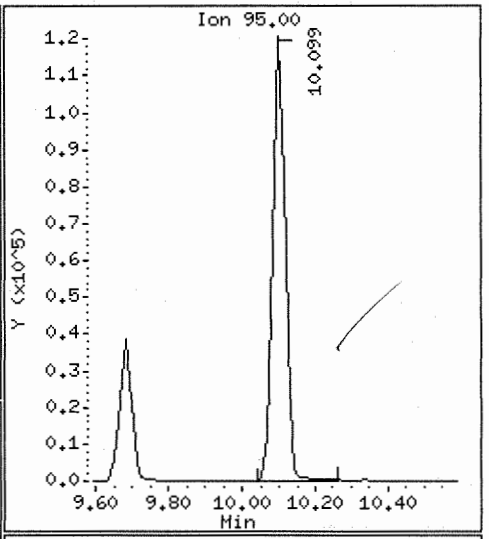
Concentration: 453 ug/L

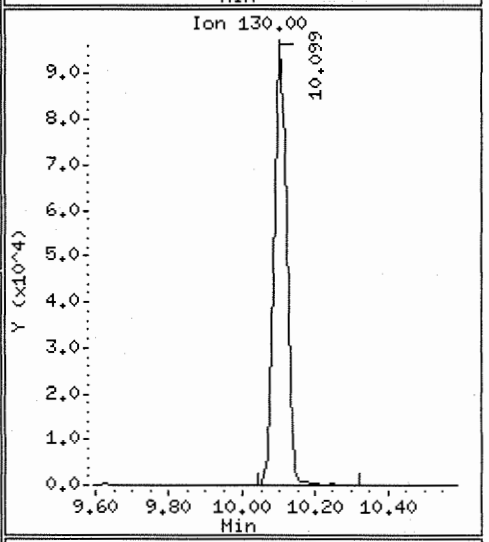


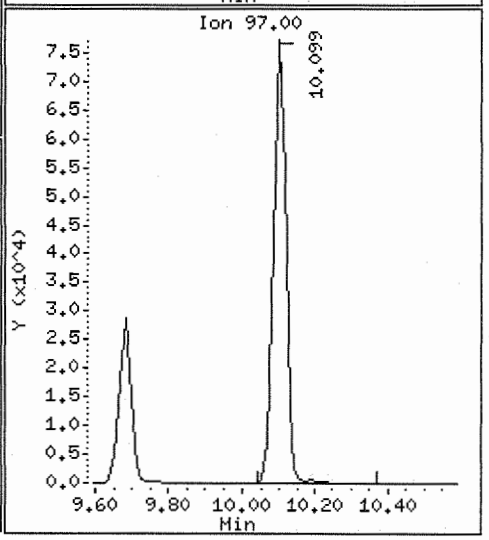












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070453.D

Date : 19-JAN-2007 08:55

Client ID: BLD120-MW-2DL

Instrument: MSK.i

Sample Info: D0700056-004DL

Purge Volume: 10.0

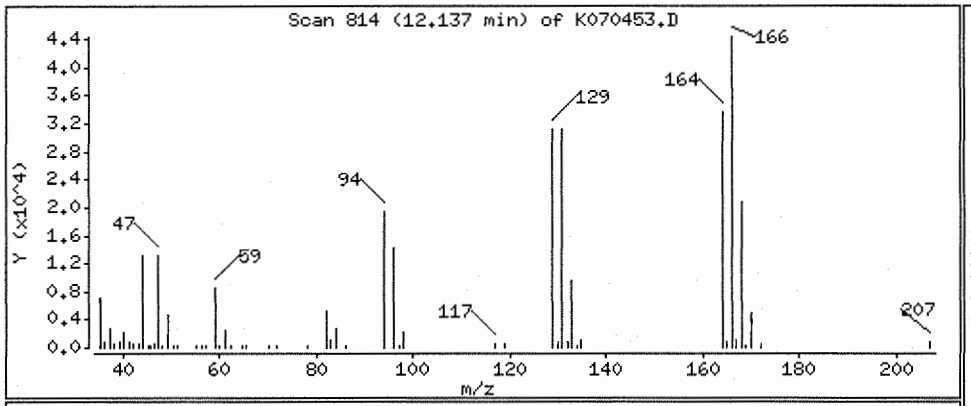
Operator: X

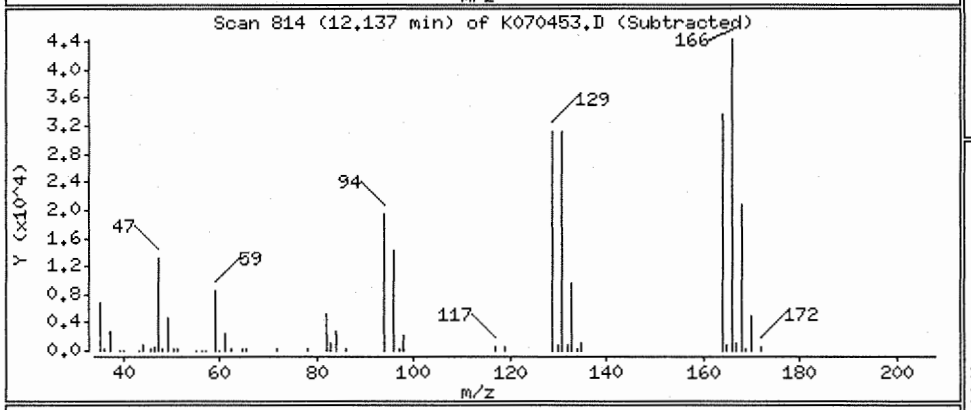
Column phase: DB-624

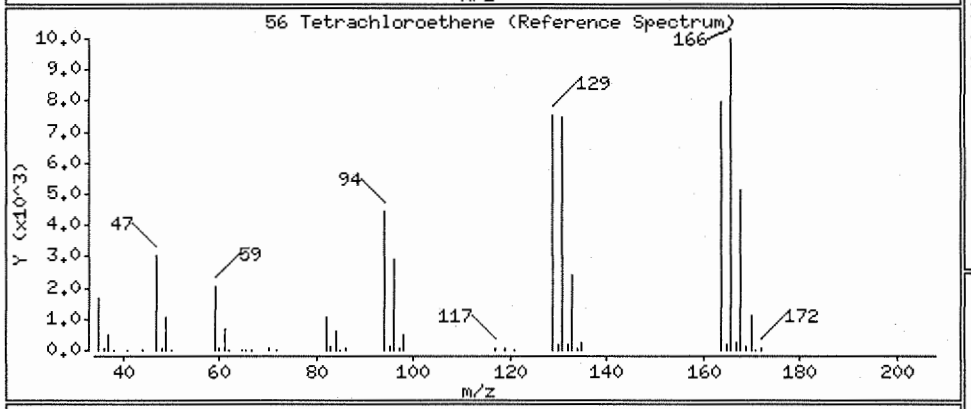
Column diameter: 0.32

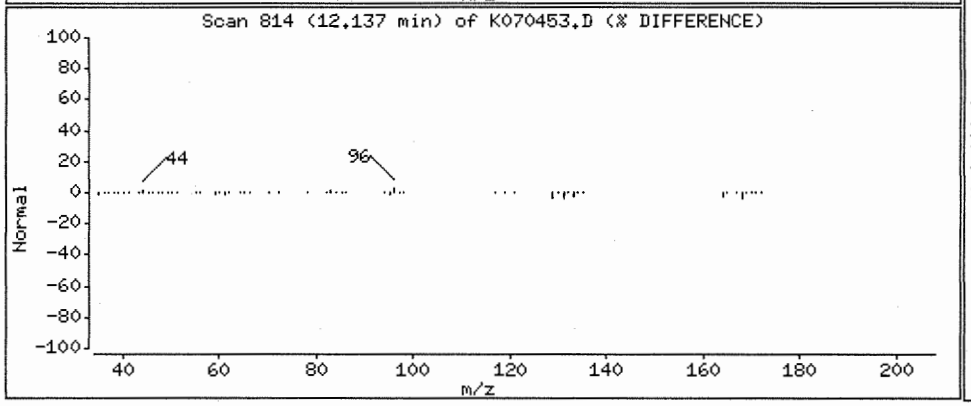
56 Tetrachloroethene

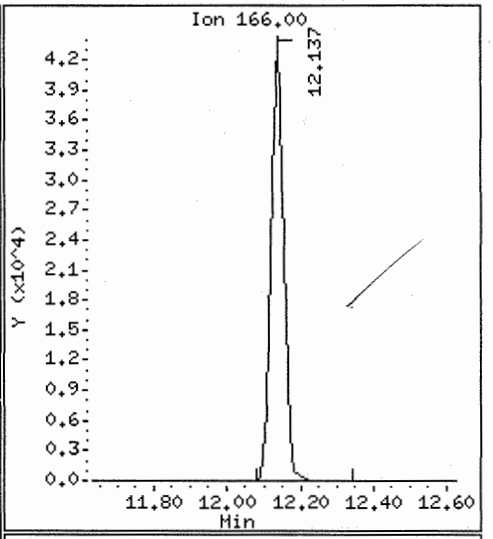
Concentration: 207 ug/L

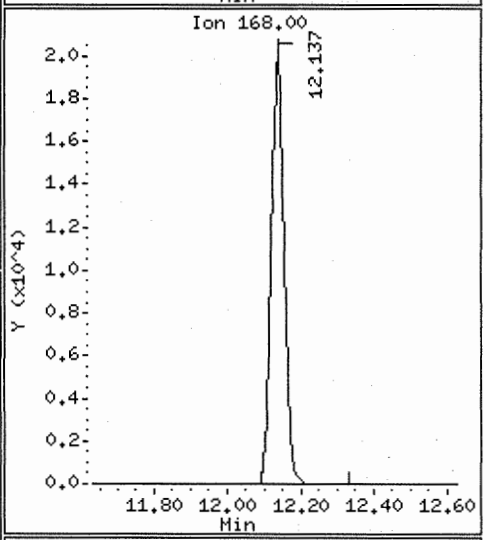


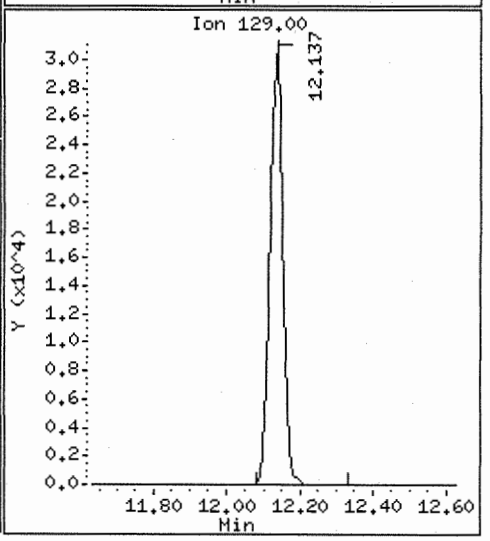












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-3
Lab Code: D0700056-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloromethane	ND	U	0.24	1.0	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Chloride	**5.4**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromomethane	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chloroethane	ND	U	0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/17/2007	01/17/2007	K0116W02	
Acetone	ND	U	0.91	10	1	01/17/2007	01/17/2007	K0116W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/17/2007	01/17/2007	K0116W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/17/2007	01/17/2007	K0116W02	
trans-1,2-Dichloroethene	**71**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethane (1,1-DCA)	**47**		0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
Vinyl Acetate	ND	U	0.24	10	1	01/17/2007	01/17/2007	K0116W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Butanone (MEK)	ND	U	0.66	10	1	01/17/2007	01/17/2007	K0116W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/17/2007	01/17/2007	K0116W02	
Chloroform	**0.22**	J	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1-Trichloroethane (TCA)	**4.7**		0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
Benzene	**0.53**		0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloroethane (EDC)	**0.58**		0.10	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/17/2007	01/17/2007	K0116W02	
Dibromomethane	ND	U	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/17/2007	01/17/2007	K0116W02	
Toluene	**0.31**	J	0.13	0.50	1	01/17/2007	01/17/2007	K0116W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,2-Trichloroethane	**0.32**	J	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	
2-Hexanone	ND	U	0.49	10	1	01/17/2007	01/17/2007	K0116W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/17/2007	01/17/2007	K0116W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/17/2007	01/17/2007	K0116W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/17/2007	01/17/2007	K0116W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/09/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-3
Lab Code: D0700056-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Xylenes, Total	ND	U	0.10	1.5	1	01/17/2007	01/17/2007	K0116W02	
Styrene	ND	U	0.070	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromoform	ND	U	0.18	1.0	1	01/17/2007	01/17/2007	K0116W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
Bromobenzene	ND	U	0.13	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/17/2007	01/17/2007	K0116W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/17/2007	01/17/2007	K0116W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/17/2007	01/17/2007	K0116W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/17/2007	01/17/2007	K0116W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/17/2007	01/17/2007	K0116W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/17/2007	01/17/2007	K0116W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/17/2007	01/17/2007	K0116W02	
Naphthalene	ND	U	0.10	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/17/2007	01/17/2007	K0116W02	
1,1-Dichloroethene (1,1-DCE)	**220**	D	7.5	25	50	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**2600**	D	7.0	25	50	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	**100**	D	7.0	25	50	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	**280**	D	4.5	25	50	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	104	79-135	01/17/2007	
4-Bromofluorobenzene - SS	101	82-124	01/17/2007	
Dibromofluoromethane - SS	100	84-127	01/17/2007	
Toluene-d8 - SS	101	80-117	01/17/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D
Lab Smp Id: D0700056-005 Client Smp ID: BLD120-MW-3
Inj Date : 17-JAN-2007 03:53
Operator : X Inst ID: MSK.i
Smp Info : D0700056-005
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:08 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8 01/18/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.682	9.688	(1.000)	1200799	10.0000	
* 2	Chlorobenzene-d5	117	13.028	13.020	(1.000)	797096	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.617	15.608	(1.000)	332031	10.0000	
$ 4	Dibromofluoromethane	113	8.879	8.885	(0.917)	387700	10.0179	10.0
$ 5	1,2-Dichloroethane-d4	65	9.295	9.287	(0.960)	370611	10.4095	10.4
$ 6	Toluene-d8	98	11.422	11.428	(0.877)	1040614	10.0628	10.1
$ 7	Bromofluorobenzene	174	14.293	14.284	(0.915)	304447	10.1342	10.1
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	3.777	3.828	(0.390)	9952	0.26586	~~0.266(a)~~
11	Vinyl chloride	62	4.045	4.051	(0.418)	173783	5.35179	5.35
12	Bromomethane	94	4.550	4.661	(0.470)	807	0.64990	~~0.650(aQ)~~
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	6.067	6.059	(0.627)	6734590	231.974	232(A)
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	7.094	7.100	(0.733)	2561436	71.2484	71.2
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	7.629	7.636	(0.788)	3196357	46.9188	46.9
30	Vinyl acetate	43	Compound Not Detected.					

TU 1/17/7

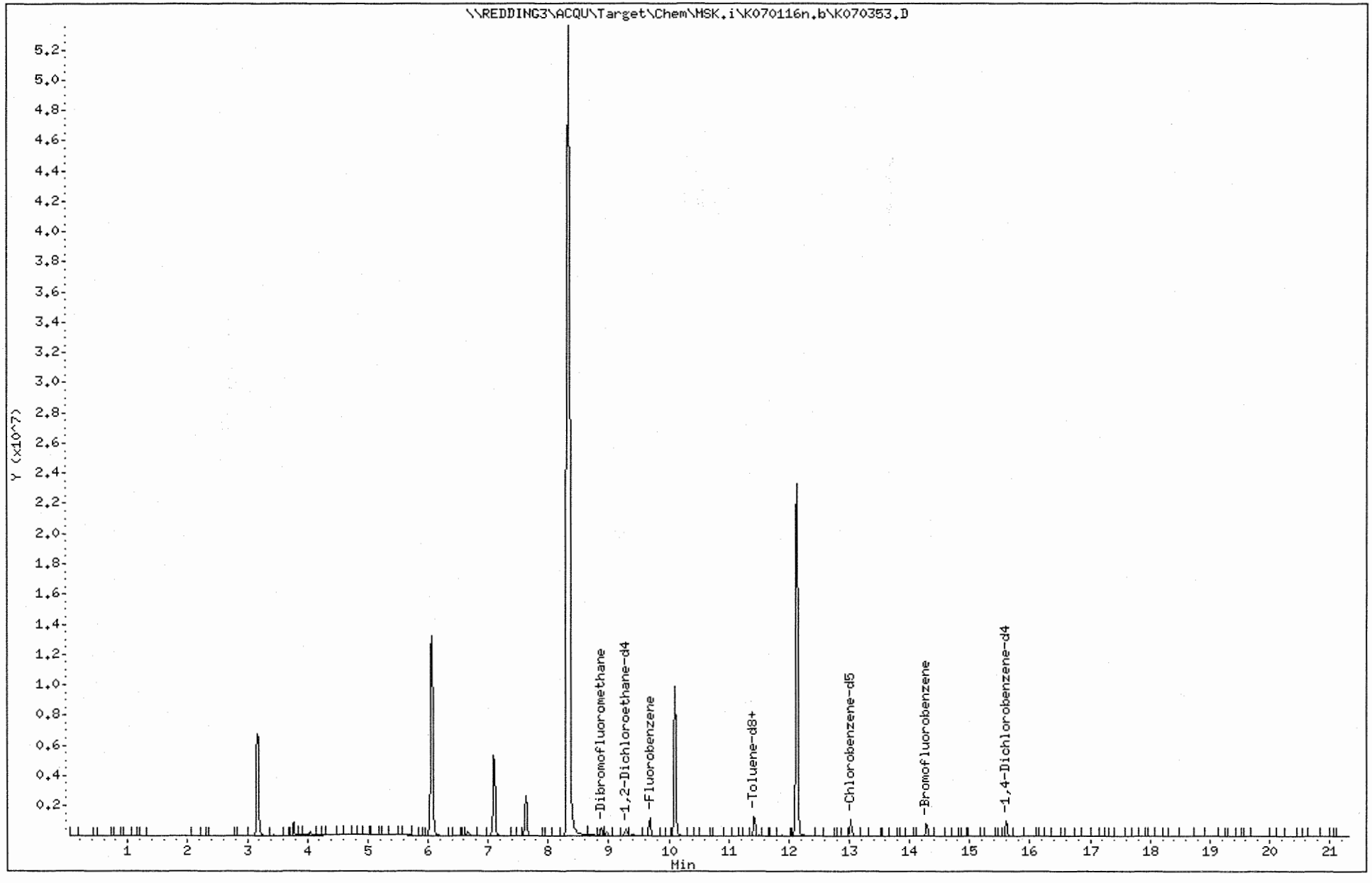
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.358	8.349	(0.863)	29233712	740.743	741(AQ)
35	2-Butanone	43	8.299	8.305	(0.857)	25531	1.81666	1.82(aQ)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.685	8.692	(0.897)	13781	0.21529	0.215(a)
38	1,1,1-Trichloroethane	97	8.968	8.974	(0.926)	207857	4.67768	4.68(Q)
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	8.968	9.182	(0.926)	26103	0.72609	0.726
43	Benzene	78	9.399	9.406	(0.971)	70731	0.52868	0.529
44	1,2-Dichloroethane	62	9.384	9.376	(0.969)	26245	0.58505	0.585
45	Trichloroethene	95	10.098	10.105	(1.043)	4070838	108.786	109(A)
46	1,2-Dichloropropane	63	10.098	10.343	(1.043)	15931	0.39689	0.397(aQ)
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	11.511	11.503	(0.884)	23289	0.31448	0.314(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	11.898	11.904	(0.913)	13522	0.32054	0.320(a)
56	Tetrachloroethene	166	12.136	12.142	(0.931)	8973168	301.313	301(A)
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D
Date : 17-JAN-2007 03:53
Client ID: BLD120-MW-3
Sample Info: D0700056-005
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



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Date : 17-JAN-2007 03:53

Client ID: BLD120-MW-3

Instrument: MSK.i

Sample Info: D0700056-005

Purge Volume: 10.0

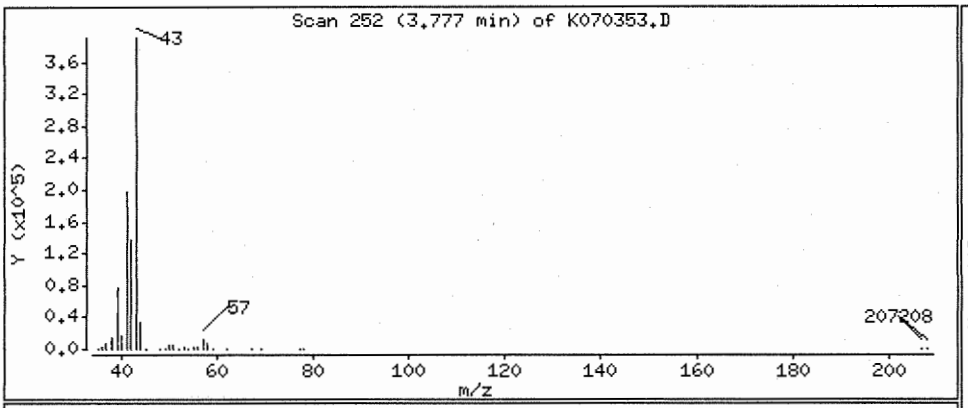
Operator: X

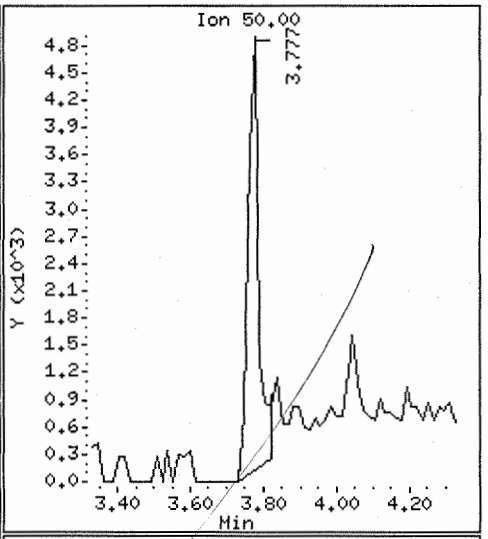
Column phase: DB-624

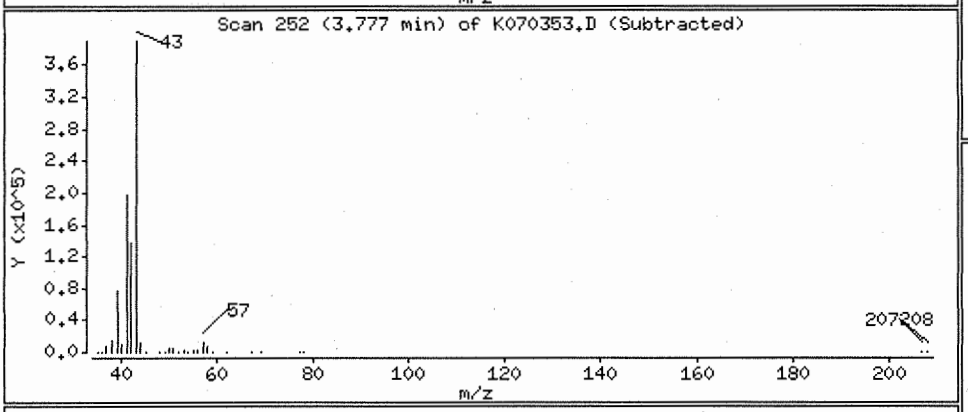
Column diameter: 0.32

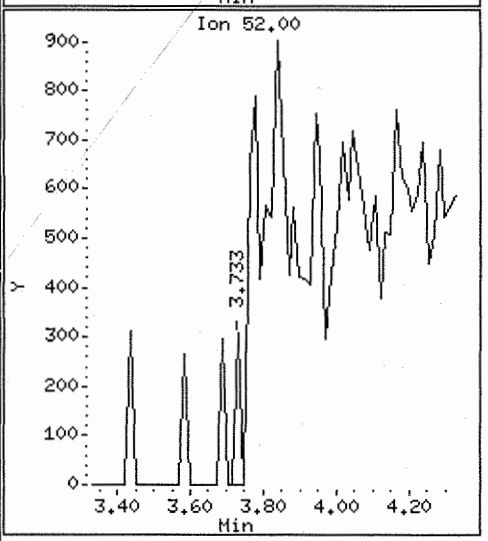
10 Chloromethane

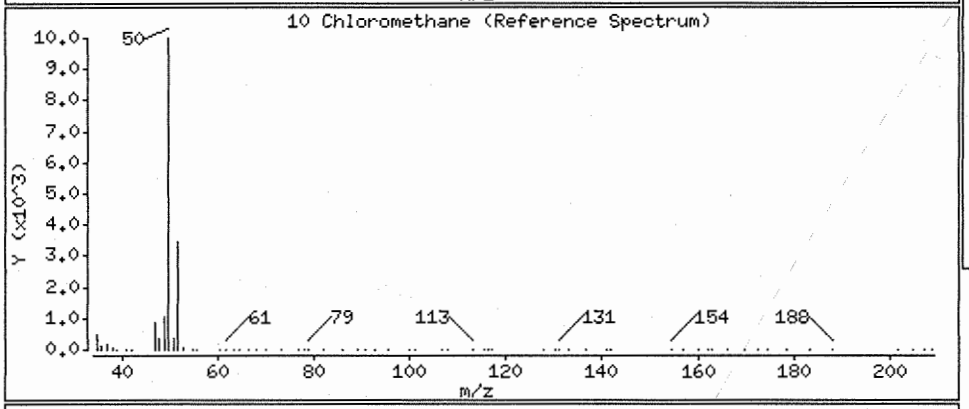
Concentration: 0.266 ug/L

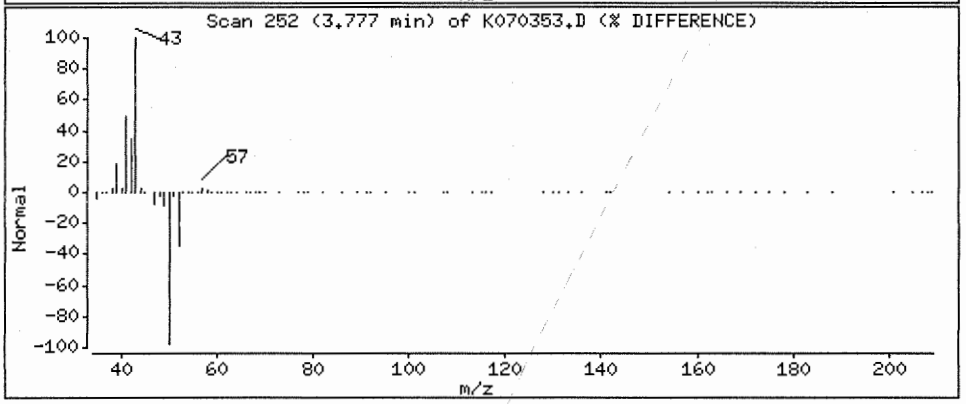












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Date : 17-JAN-2007 03:53

Client ID: BLD120-MW-3

Instrument: MSK.i

Sample Info: D0700056-005

Purge Volume: 10.0

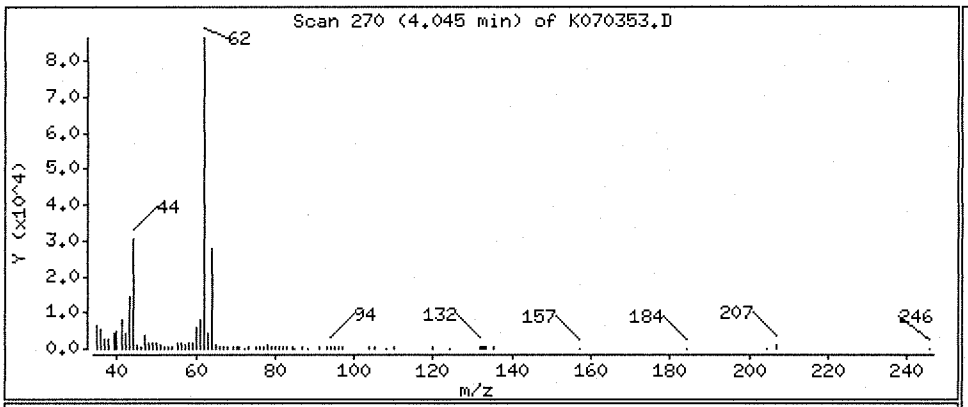
Operator: X

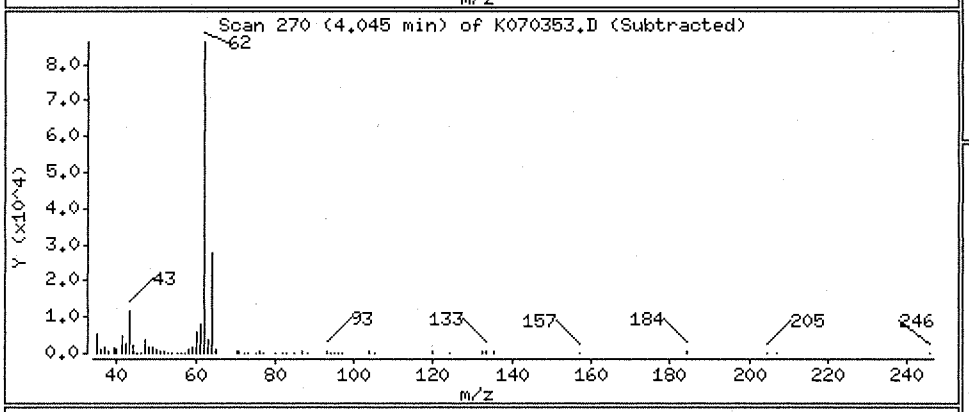
Column phase: DB-624

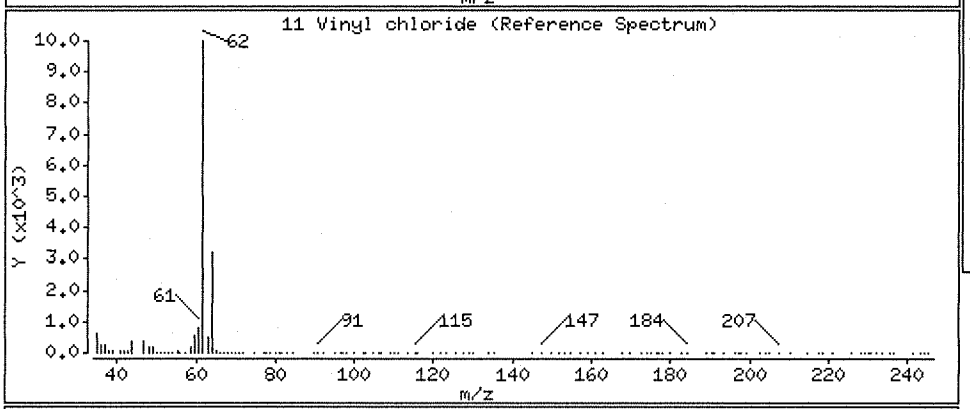
Column diameter: 0.32

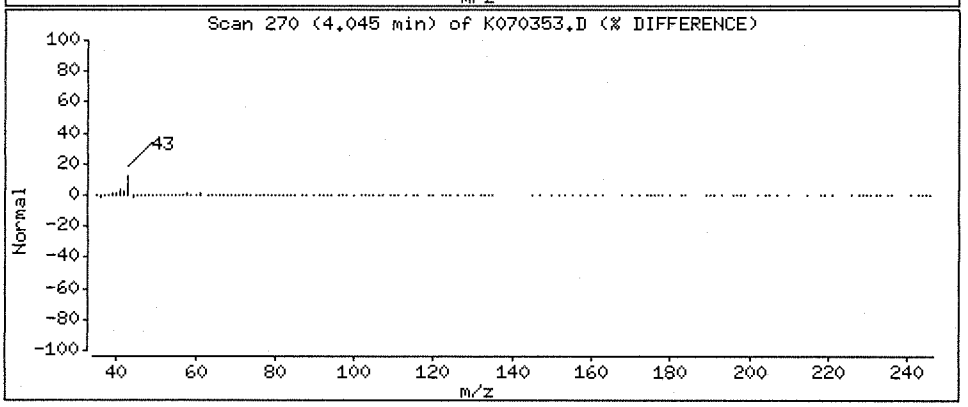
11 Vinyl chloride

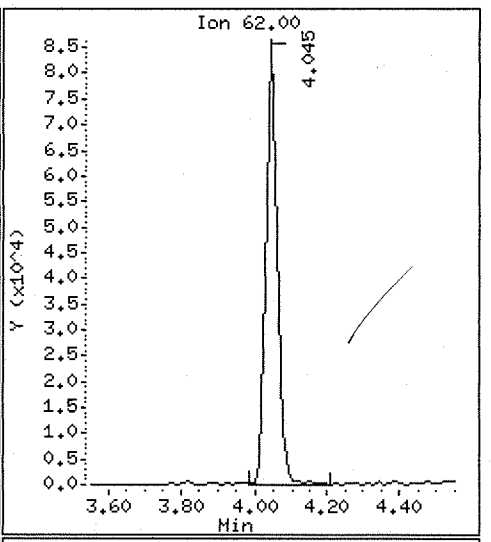
Concentration: 5.35 ug/L

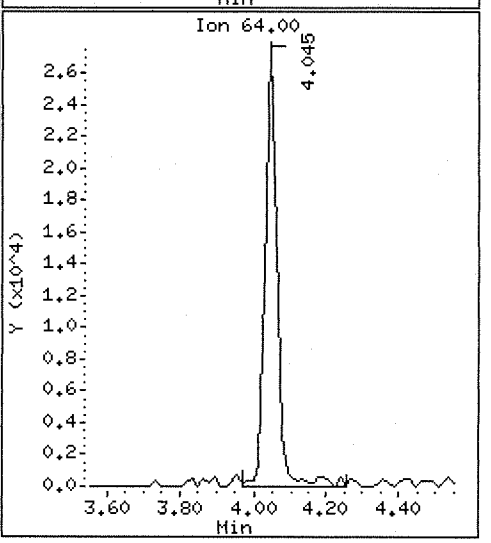












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

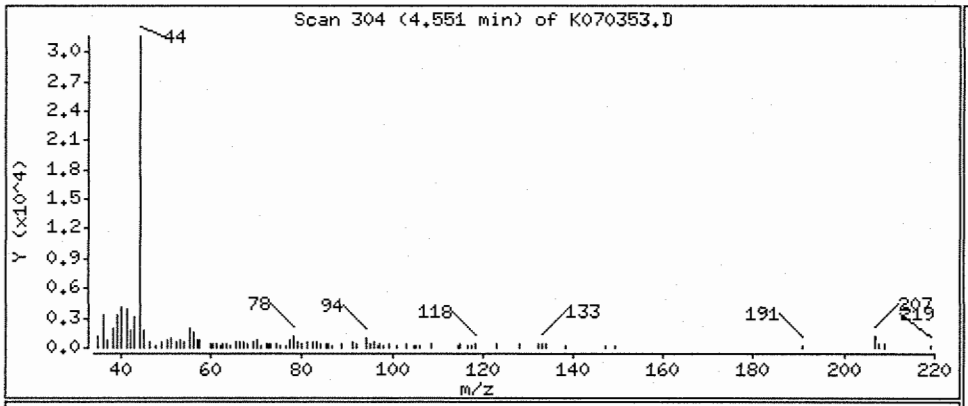
Client ID: BLD120-MW-3 Instrument: MSK.i

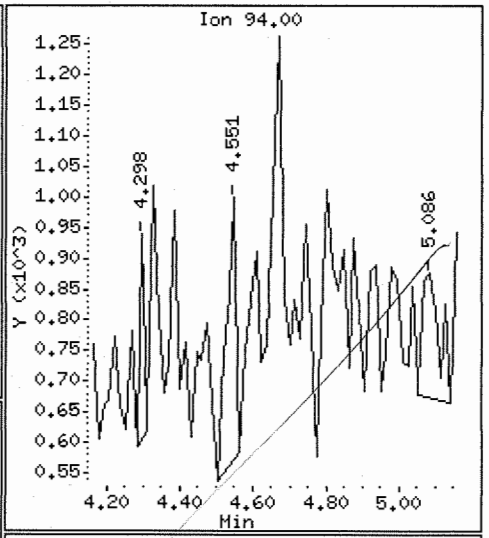
Sample Info: D0700056-005

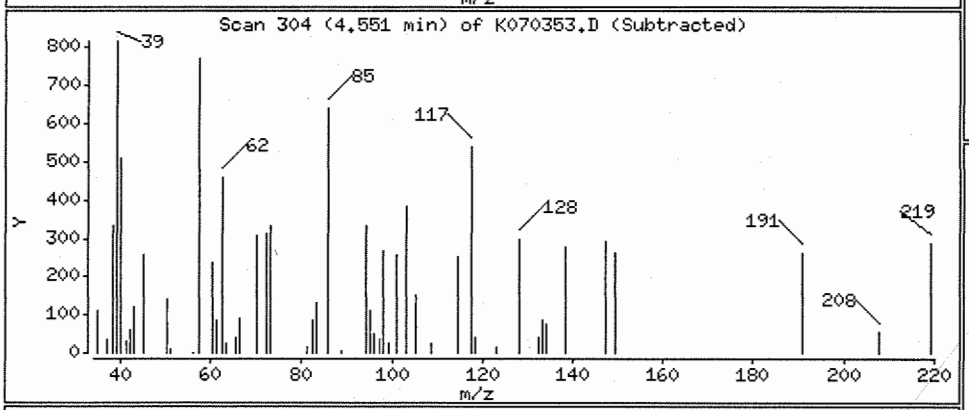
Purge Volume: 10.0 Operator: X

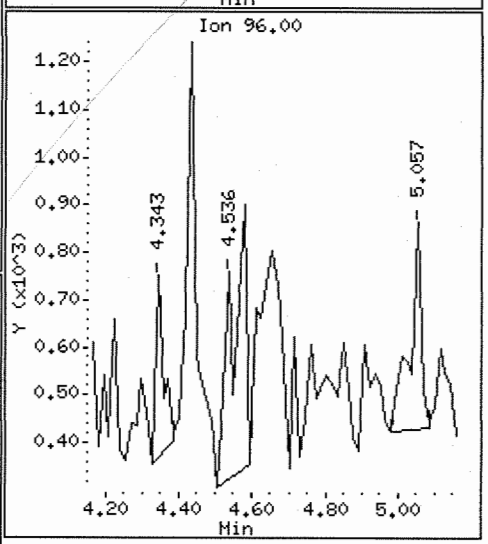
Column phase: DB-624 Column diameter: 0.32

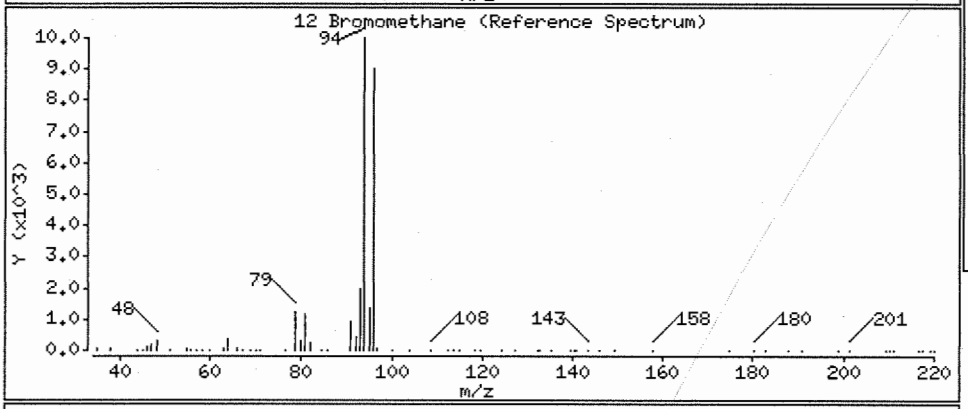
12 Bromomethane Concentration: 0.650 ug/L

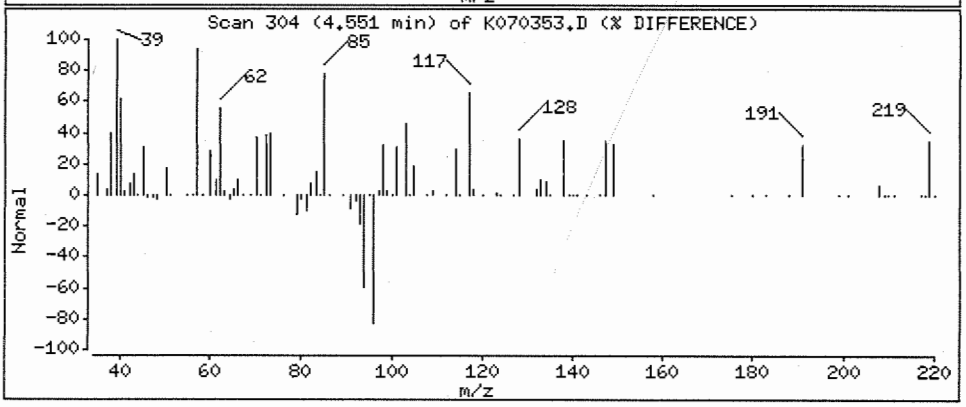












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

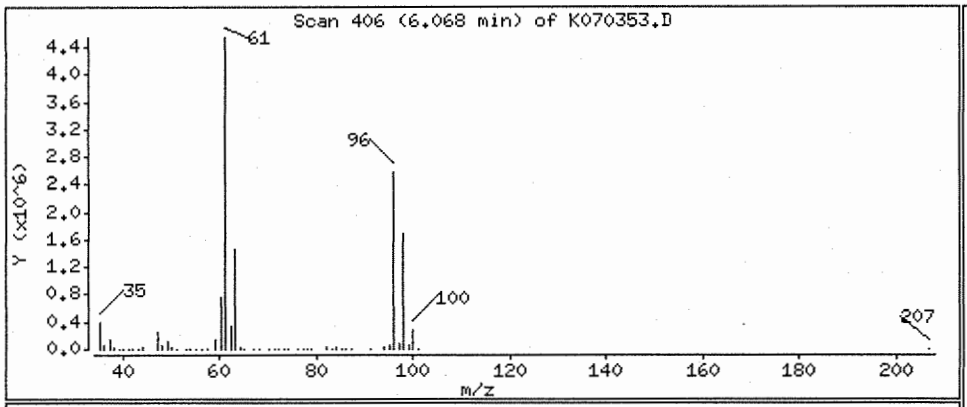
Client ID: BLD120-MW-3 Instrument: MSK.i

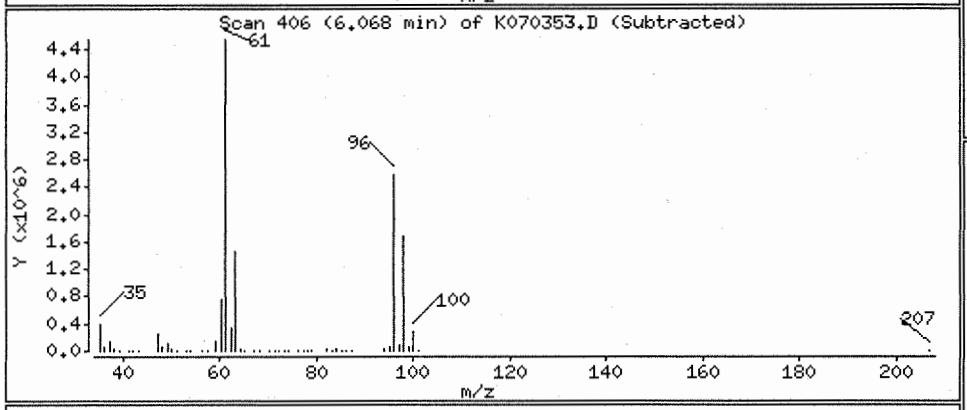
Sample Info: D0700056-005

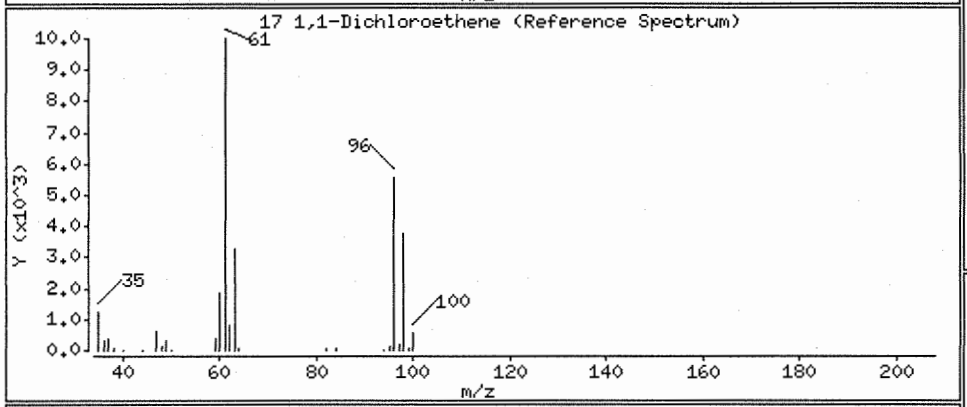
Purge Volume: 10.0 Operator: X

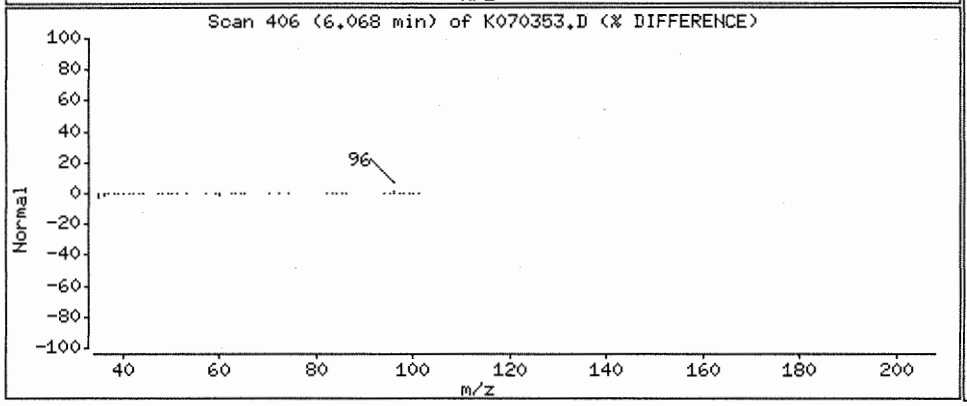
Column phase: DB-624 Column diameter: 0.32

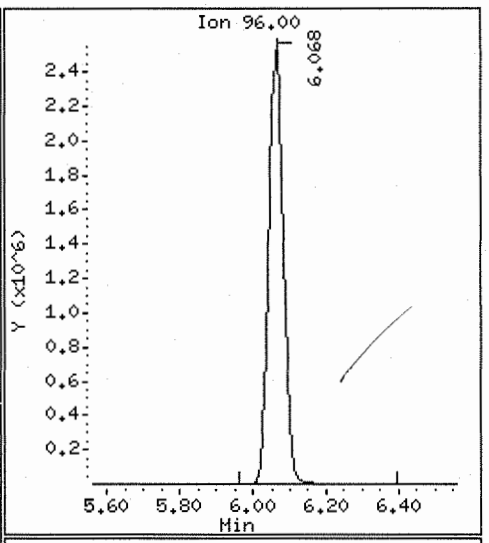
17 1,1-Dichloroethene Concentration: 232 ug/L

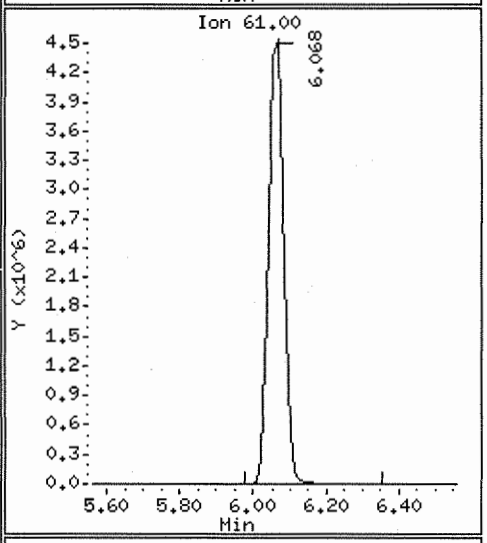


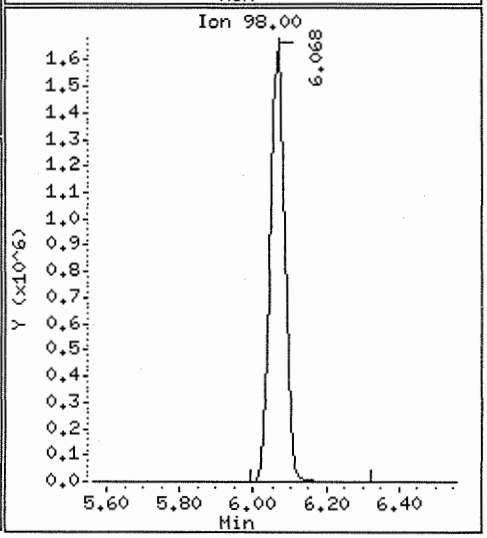












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

Client ID: BLD120-MW-3

Instrument: MSK.i

Sample Info: D0700056-005

Purge Volume: 10.0

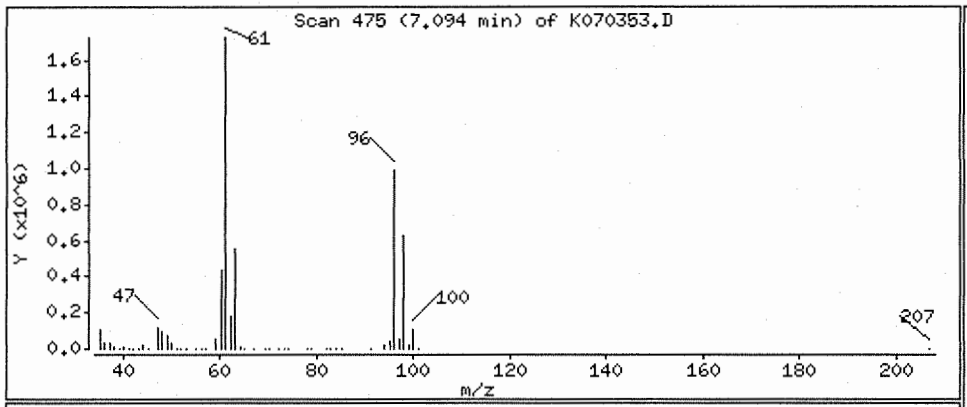
Operator: X

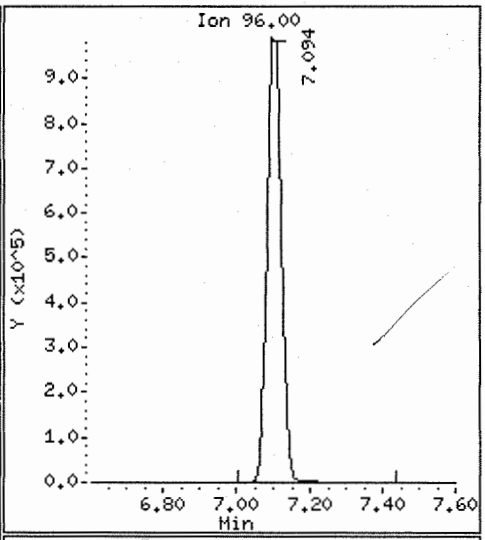
Column phase: DB-624

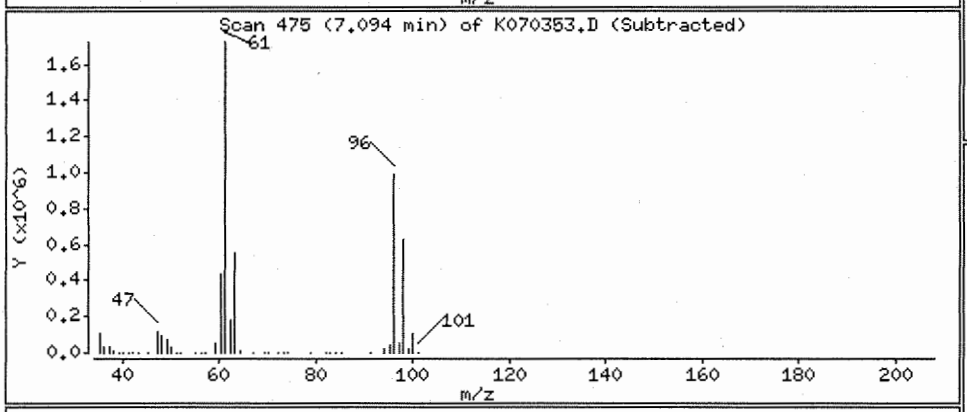
Column diameter: 0.32

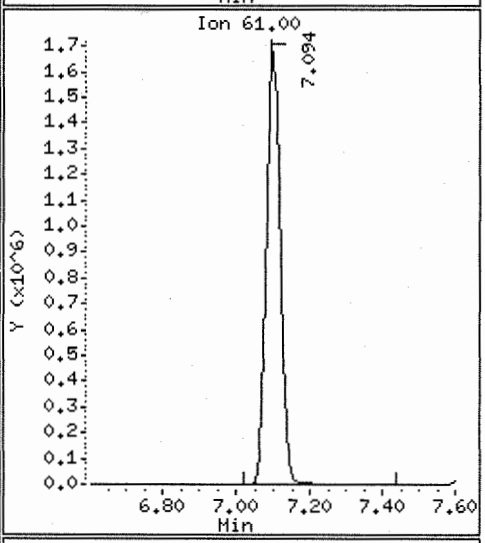
26 trans-1,2-Dichloroethene

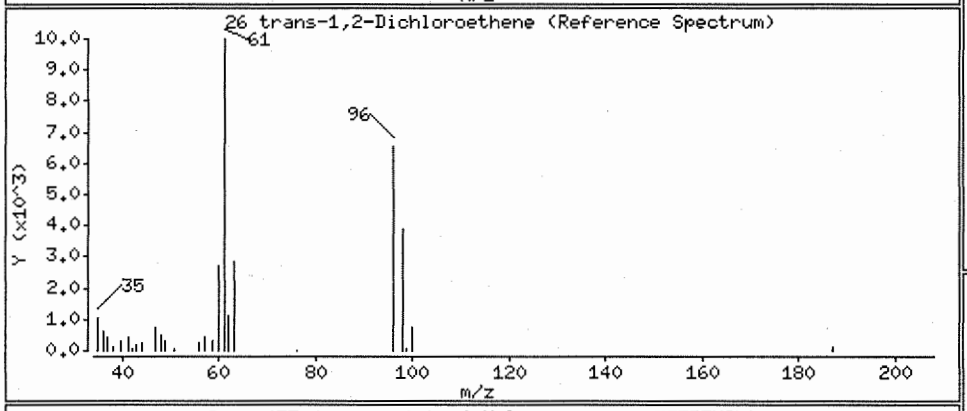
Concentration: 71.2 ug/L

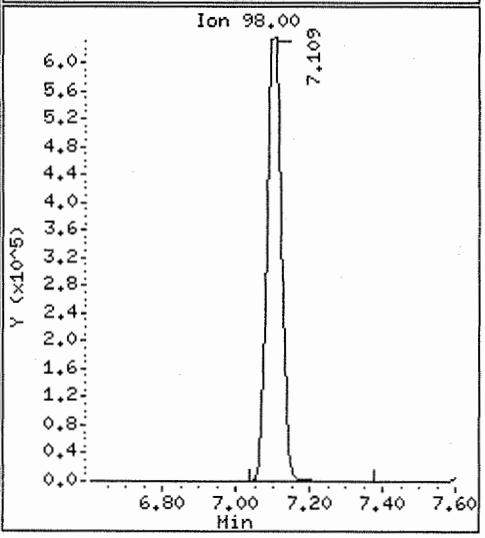


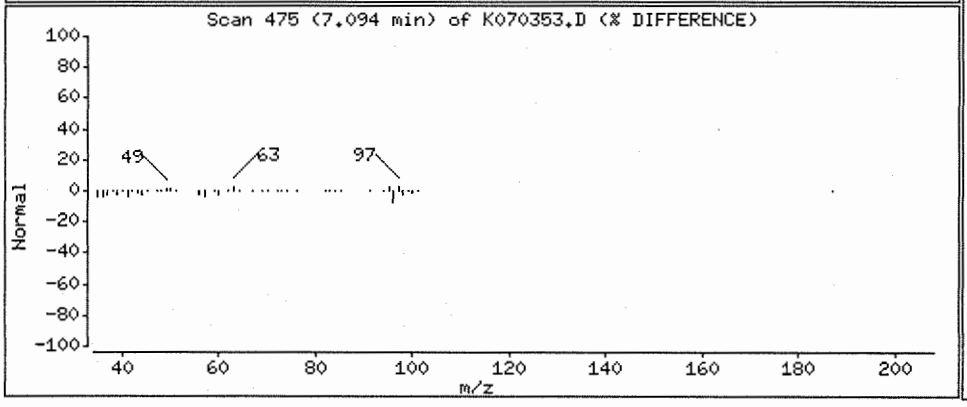












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

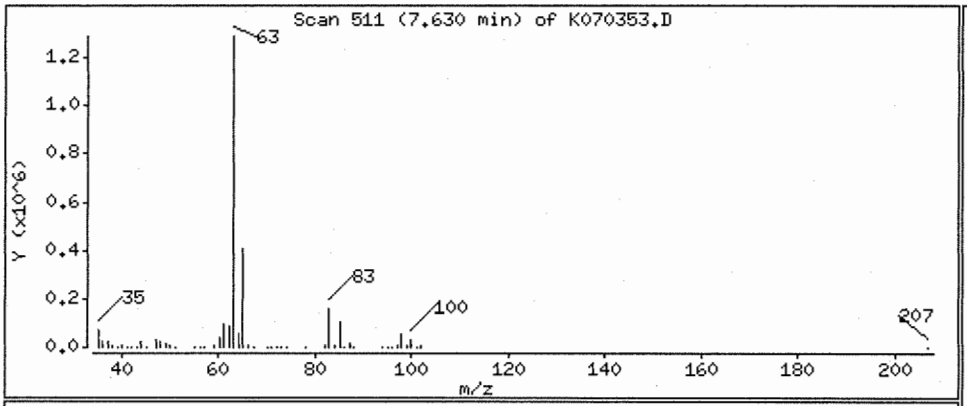
Client ID: BLD120-MW-3 Instrument: MSK.i

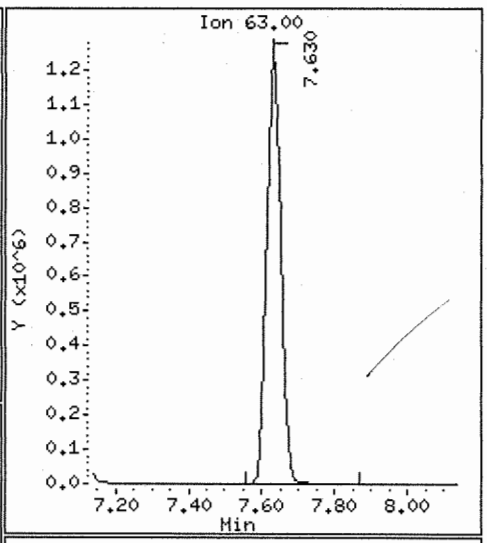
Sample Info: D0700056-005

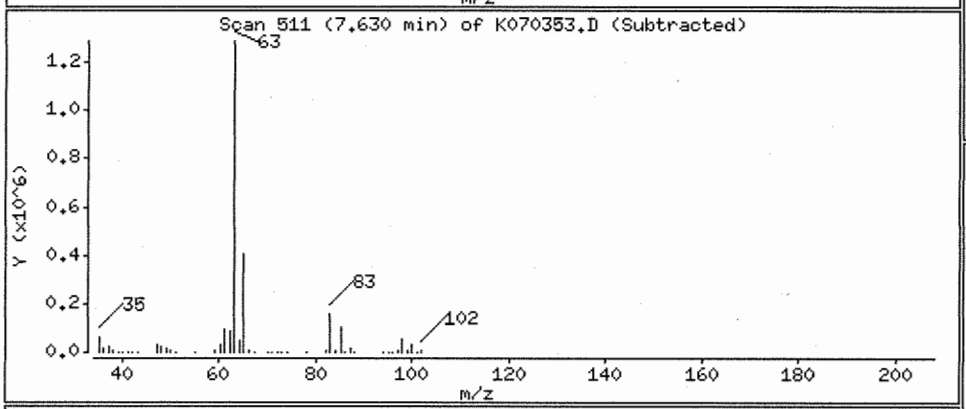
Purge Volume: 10.0 Operator: X

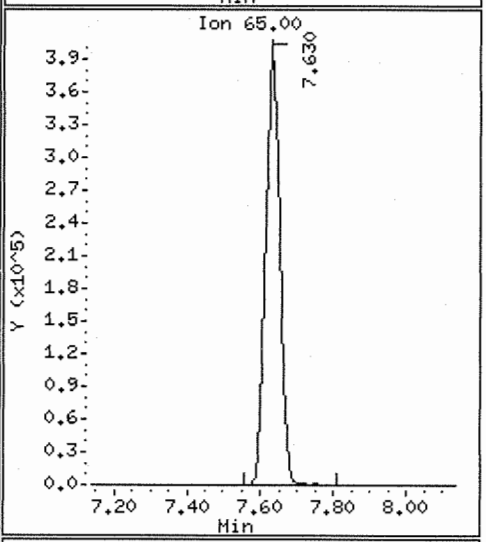
Column phase: DB-624 Column diameter: 0.32

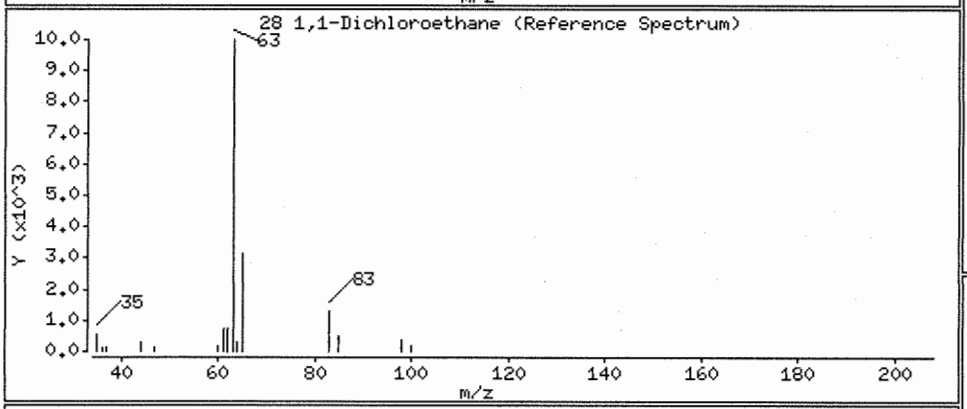
28 1,1-Dichloroethane Concentration: 46.9 ug/L

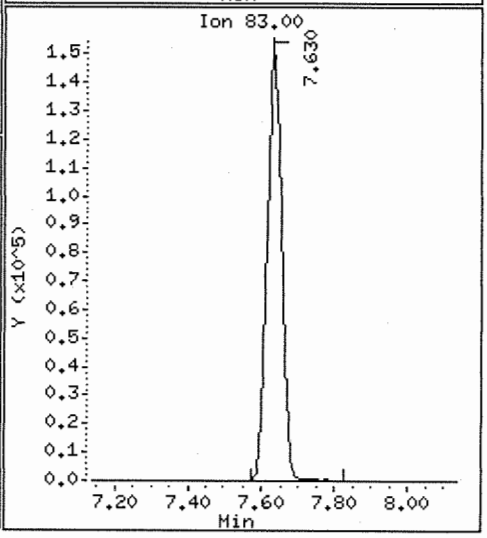


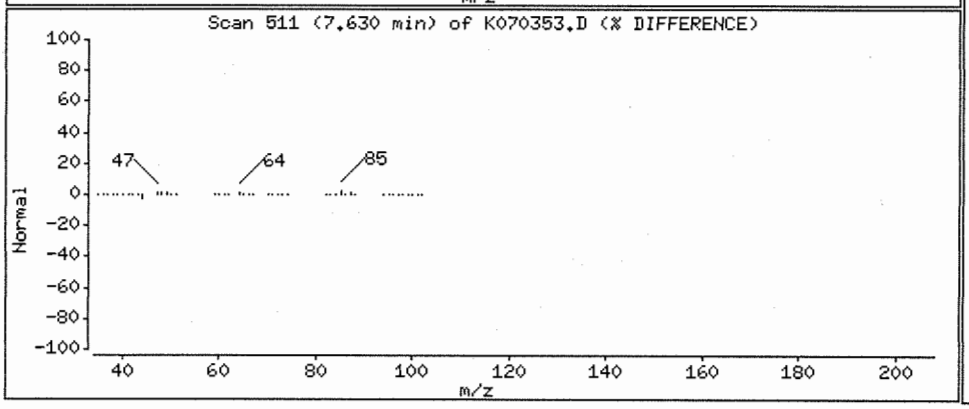












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

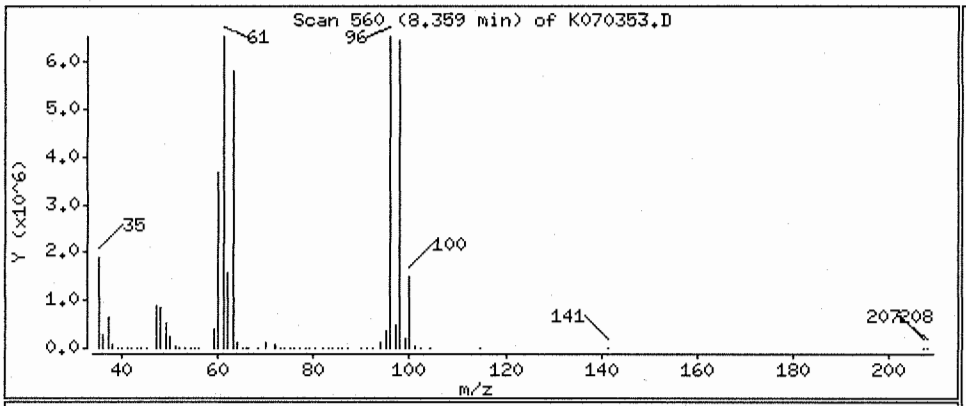
Client ID: BLD120-MW-3 Instrument: MSK.i

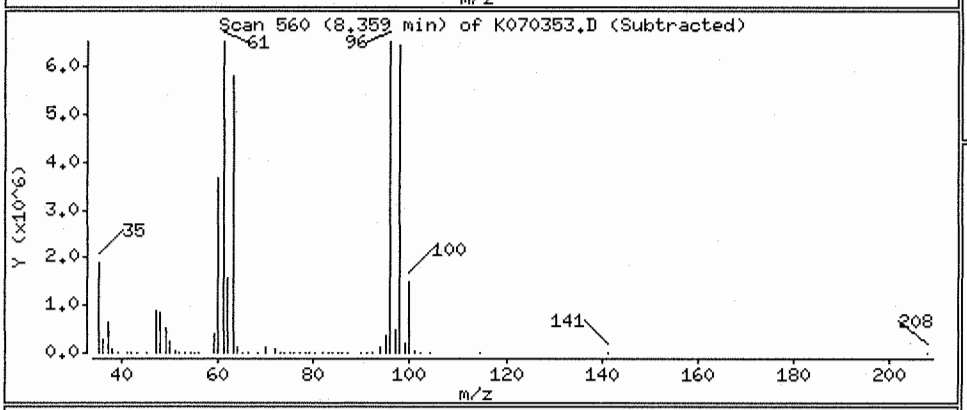
Sample Info: D0700056-005

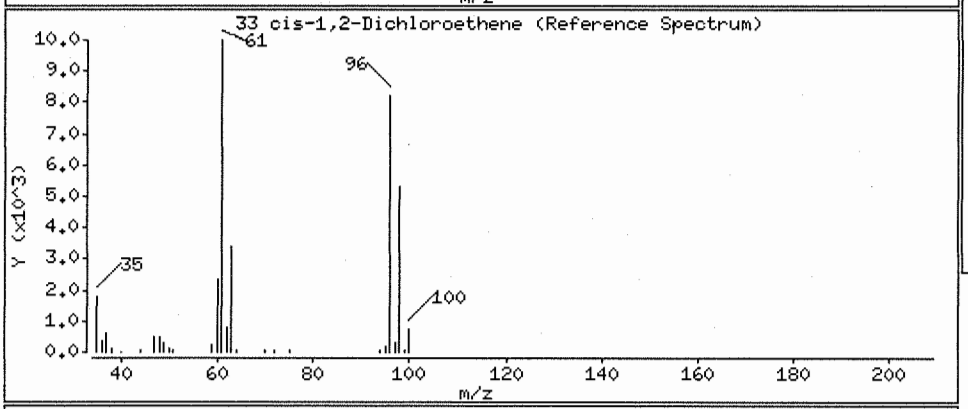
Purge Volume: 10.0 Operator: X

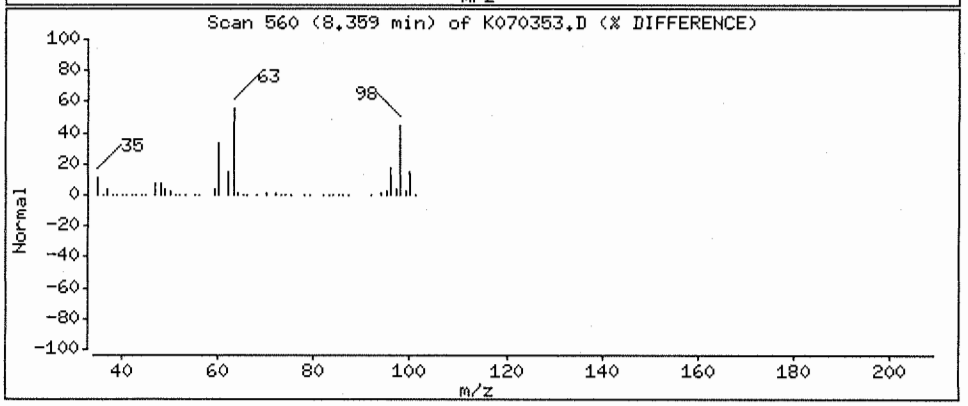
Column phase: DB-624 Column diameter: 0.32

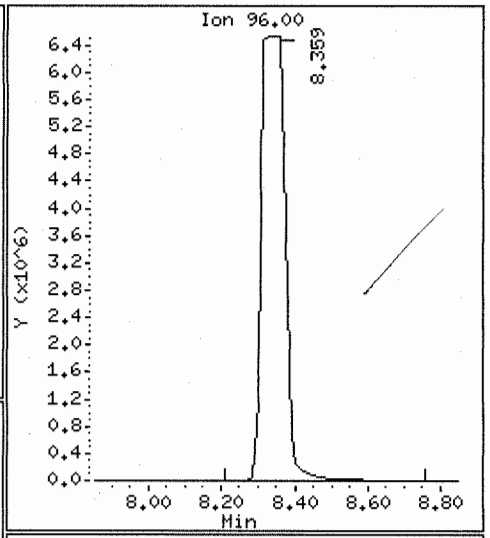
33 cis-1,2-Dichloroethene Concentration: 741 ug/L

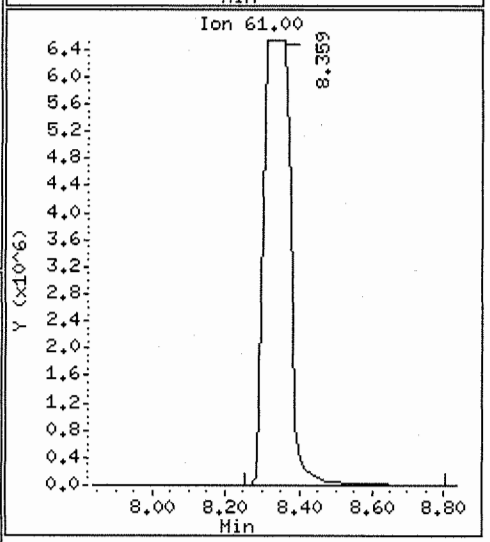












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

Client ID: BLD120-MW-3

Instrument: MSK.i

Sample Info: D0700056-005

Purge Volume: 10.0

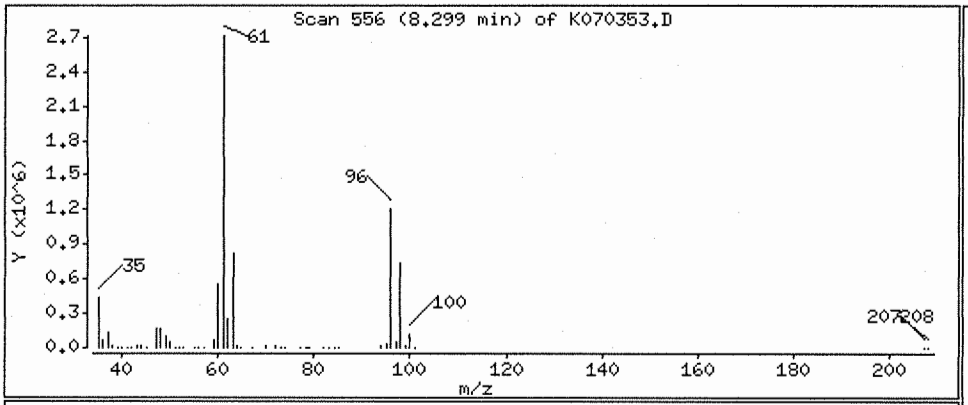
Operator: X

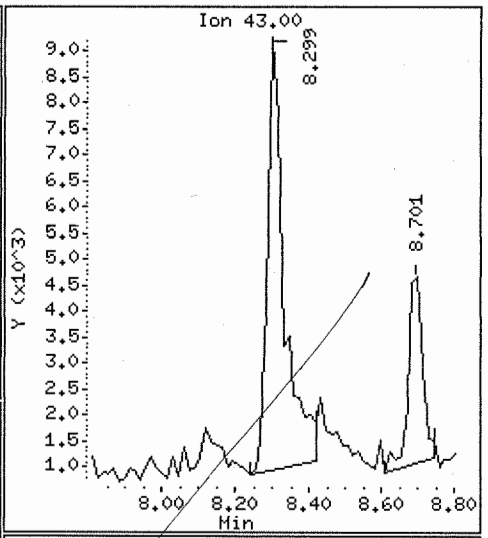
Column phase: DB-624

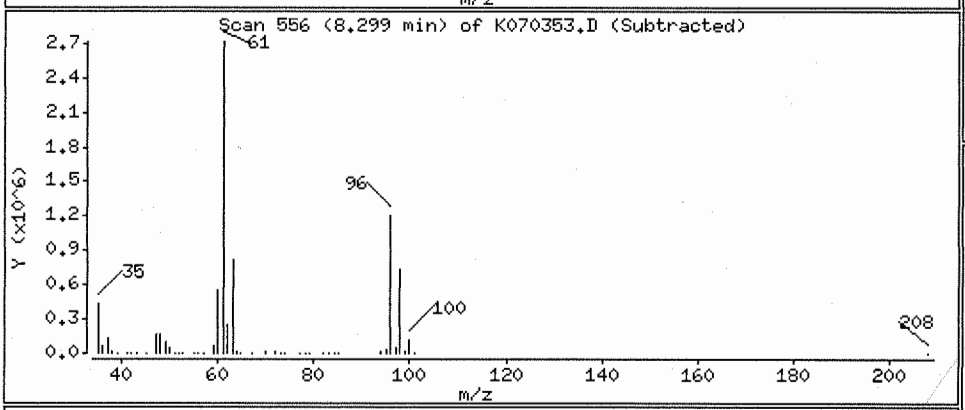
Column diameter: 0.32

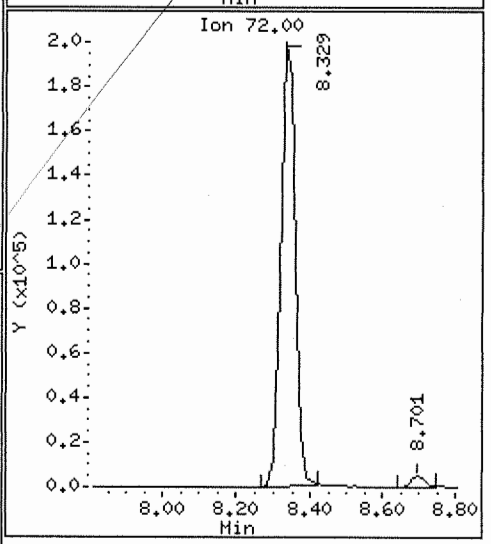
35 2-Butanone

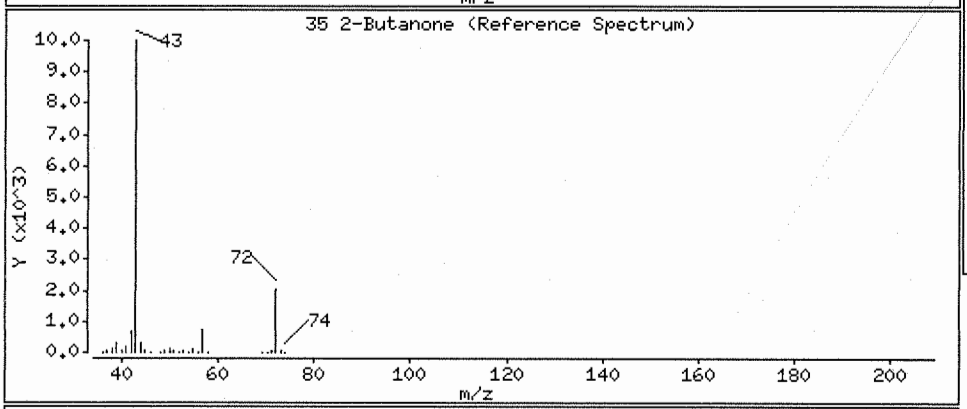
Concentration: 1.82 ug/L

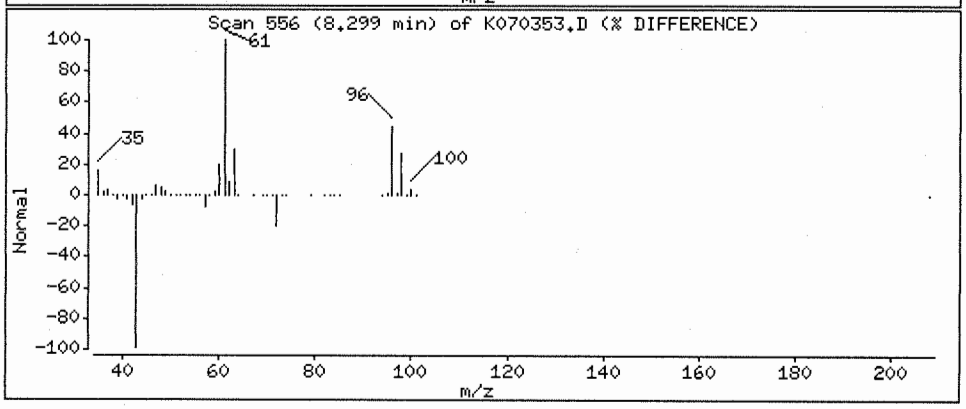












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

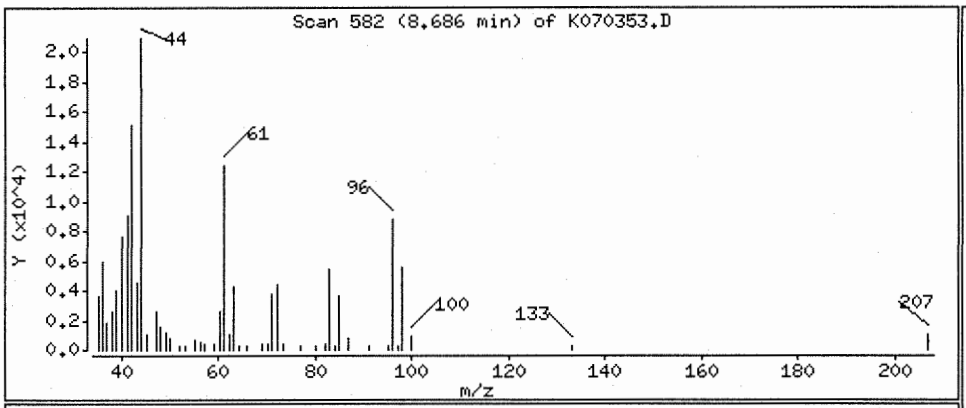
Client ID: BLD120-MW-3 Instrument: MSK.i

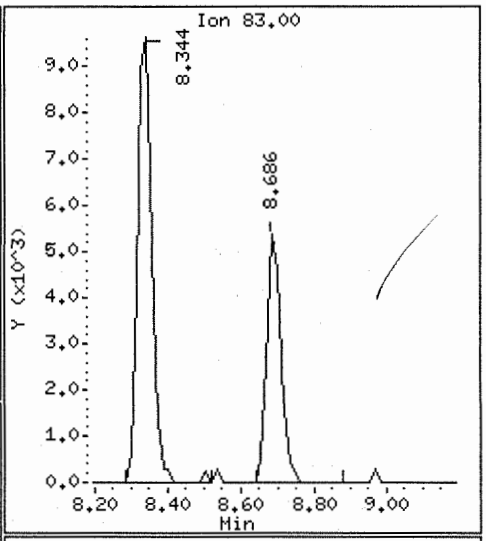
Sample Info: D0700056-005

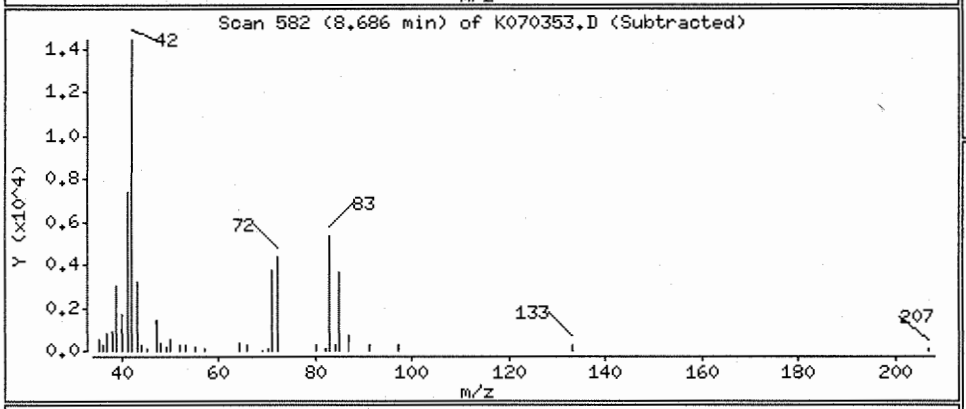
Purge Volume: 10.0 Operator: X

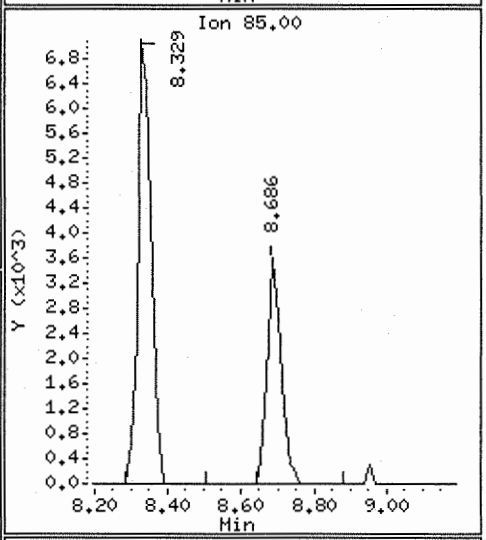
Column phase: DB-624 Column diameter: 0.32

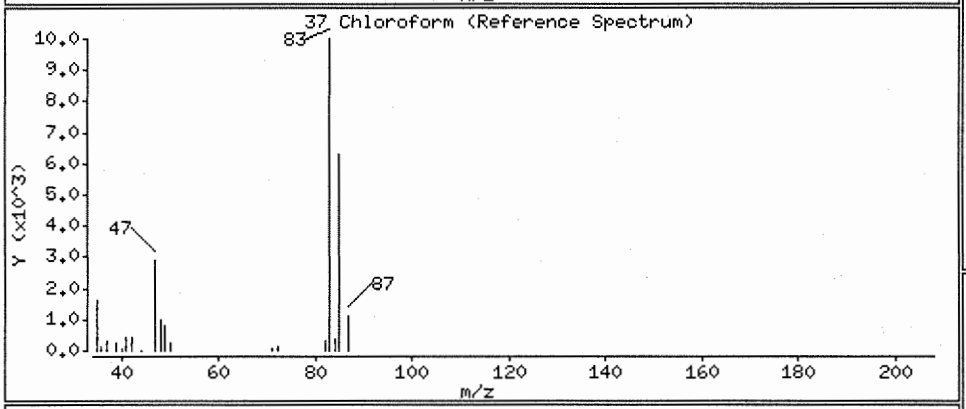
37 Chloroform Concentration: 0.215 ug/L

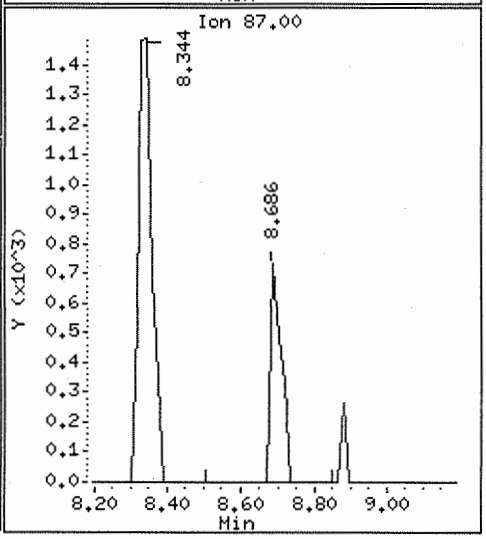


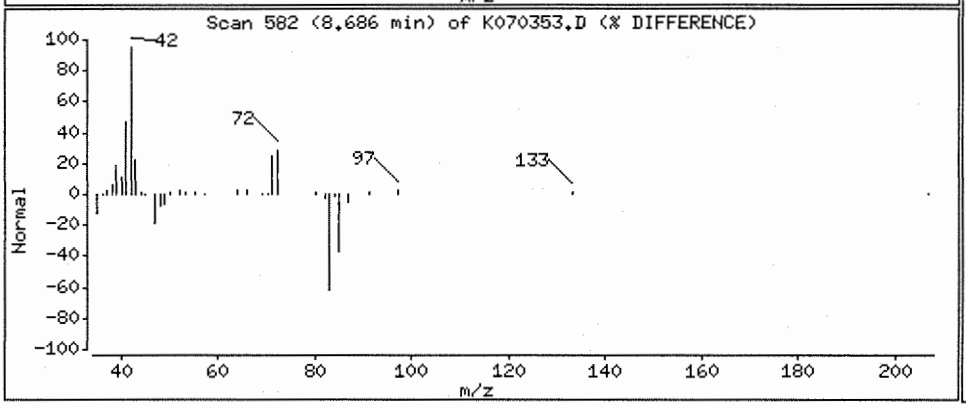












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

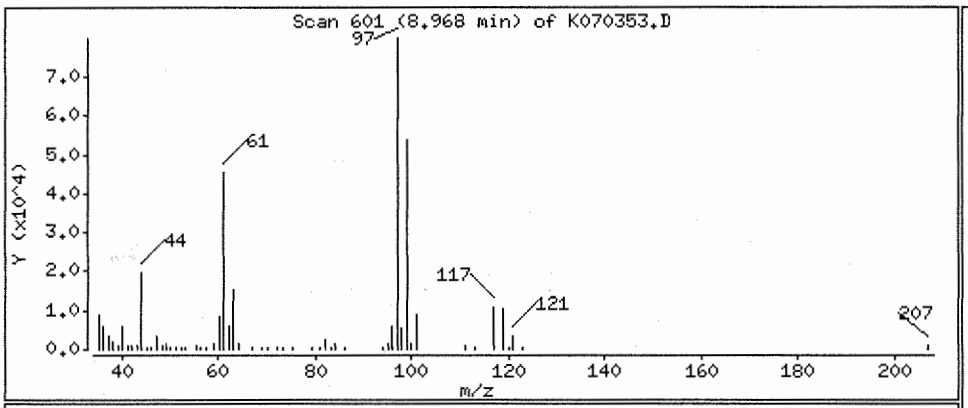
Client ID: BLD120-MW-3 Instrument: MSK.i

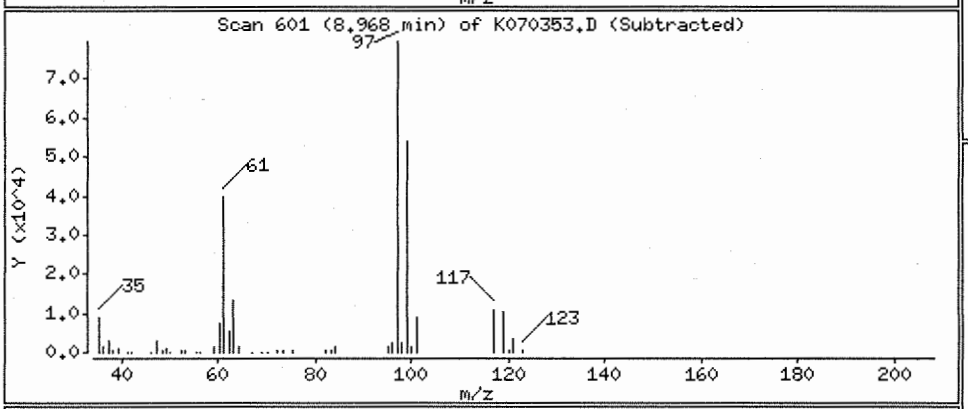
Sample Info: D0700056-005

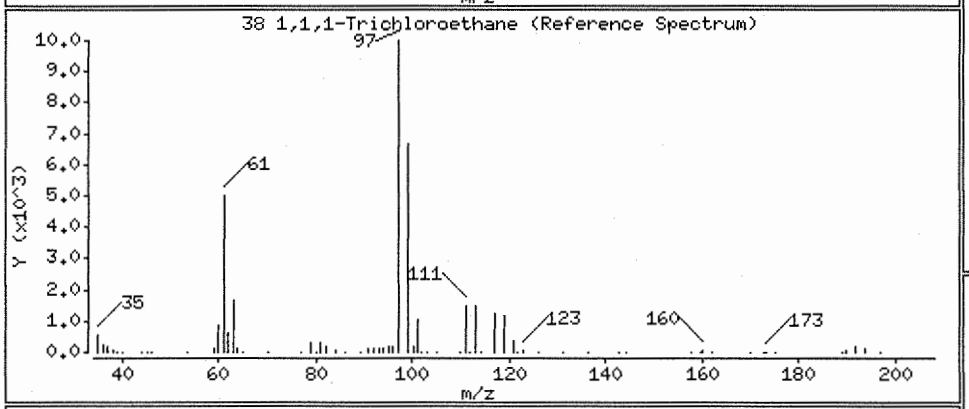
Purge Volume: 10.0 Operator: X

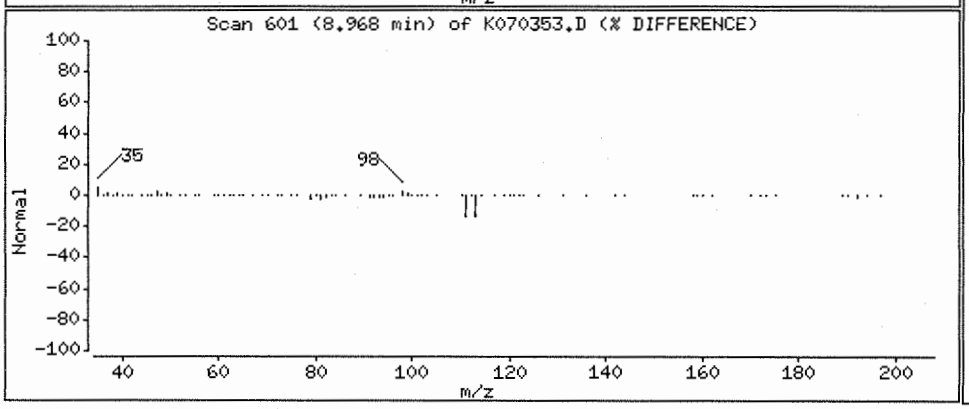
Column phase: DB-624 Column diameter: 0.32

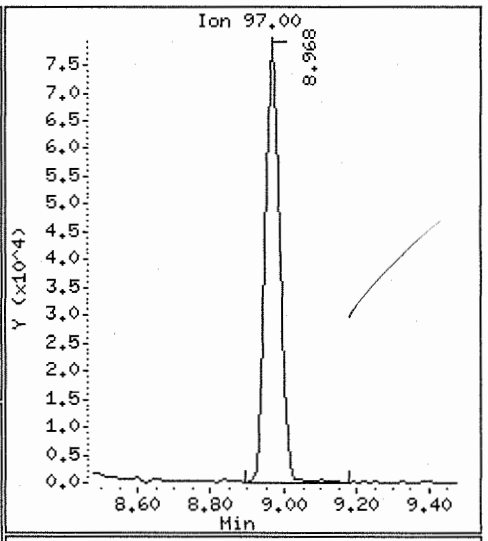
38 1,1,1-Trichloroethane Concentration: 4.68 ug/L

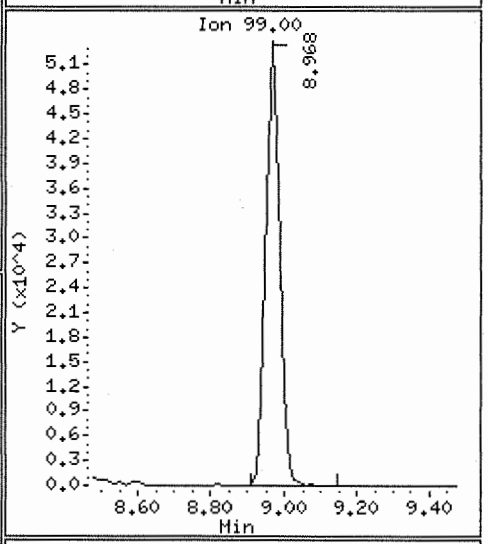


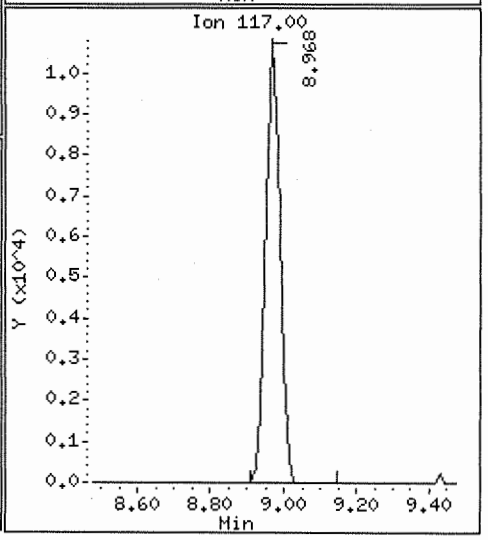












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

Client ID: BLD120-MW-3

Instrument: MSK.i

Sample Info: D0700056-005

Purge Volume: 10.0

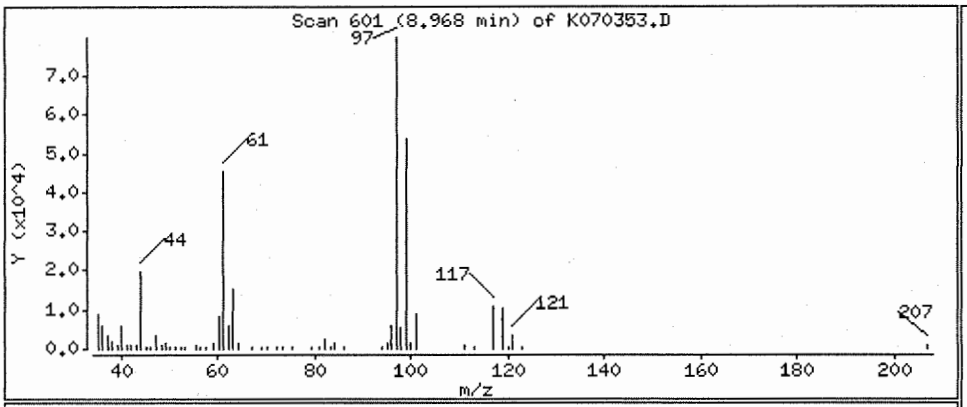
Operator: X

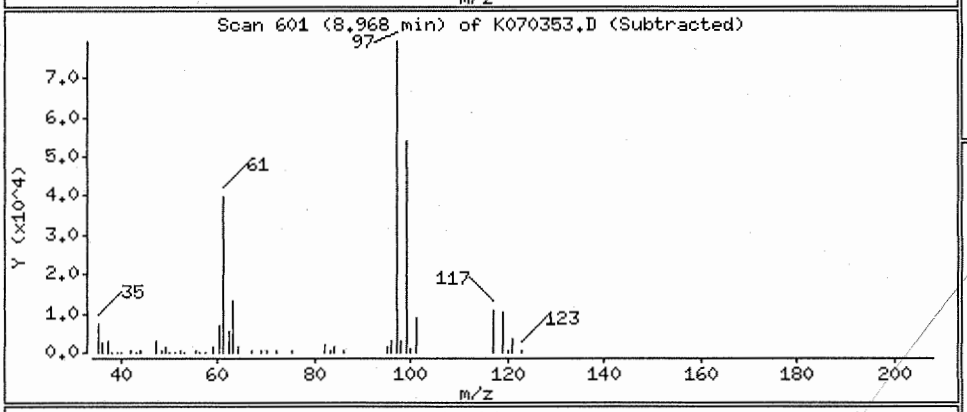
Column phase: DB-624

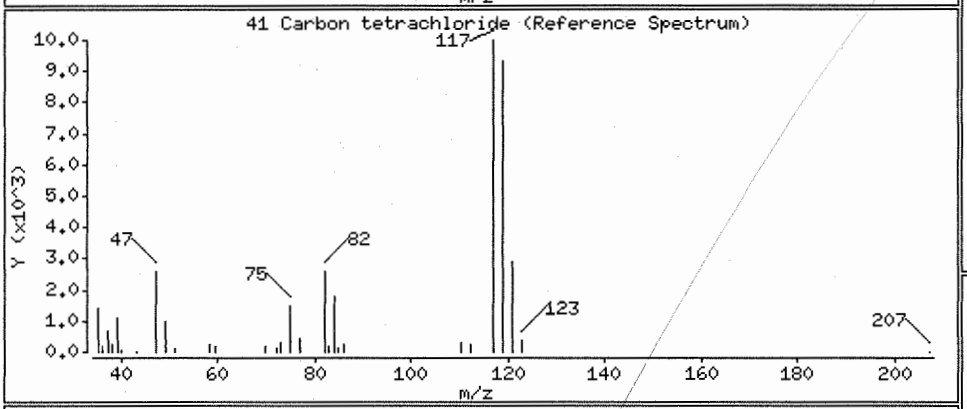
Column diameter: 0.32

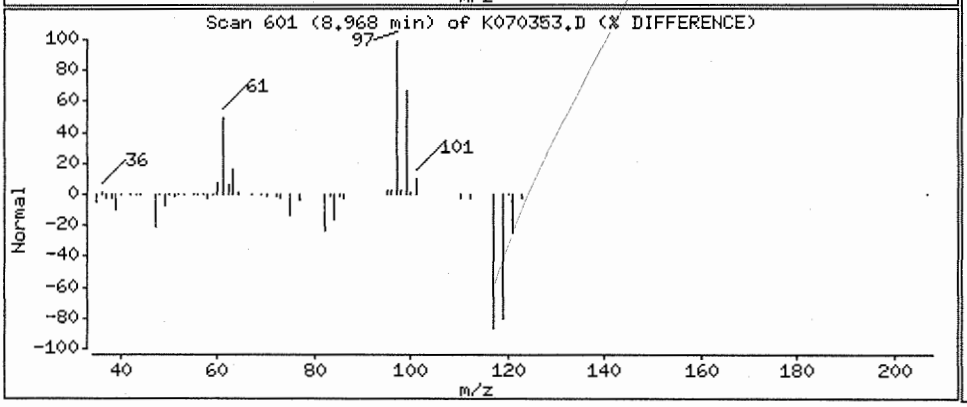
41 Carbon tetrachloride

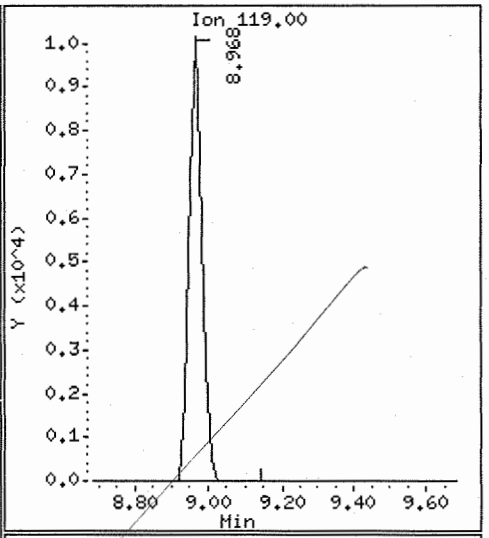
Concentration: 0.726 ug/L

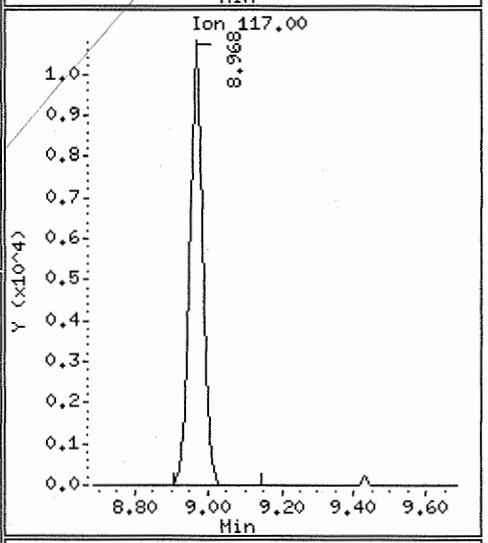


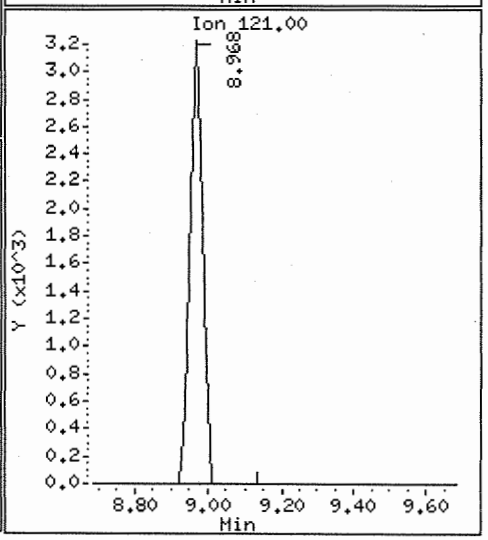












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

Client ID: BLD120-MW-3

Instrument: MSK.i

Sample Info: D0700056-005

Purge Volume: 10.0

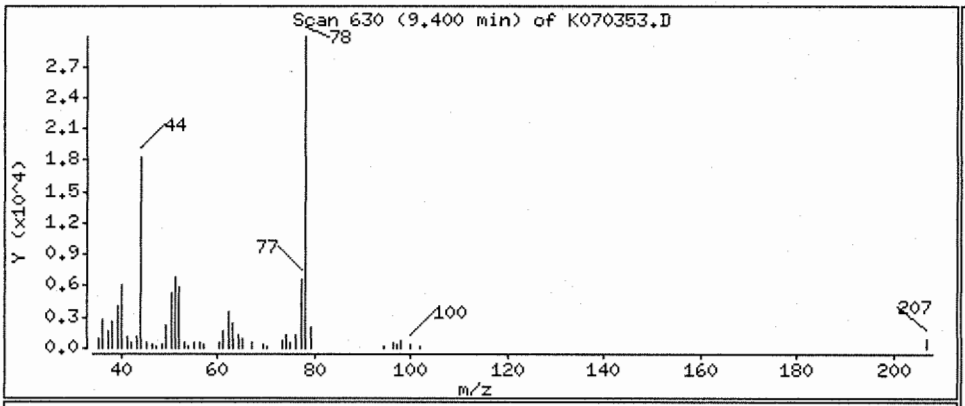
Operator: X

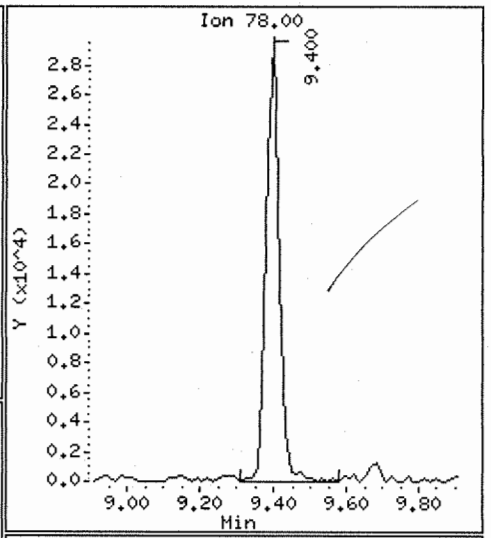
Column phase: DB-624

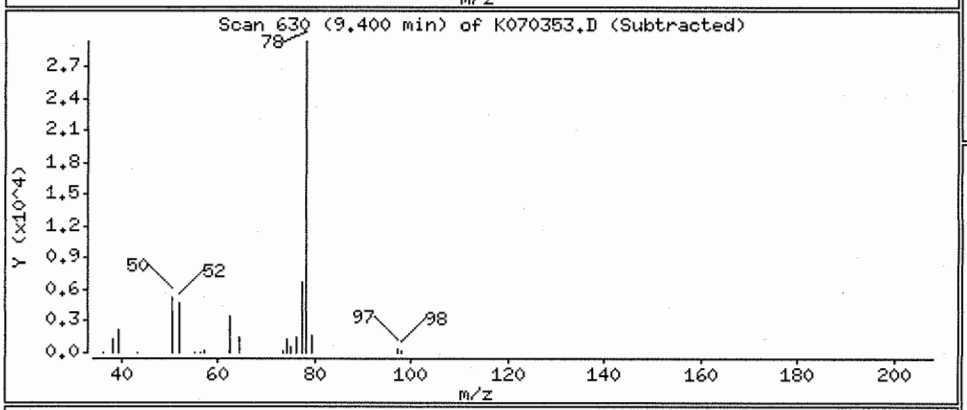
Column diameter: 0.32

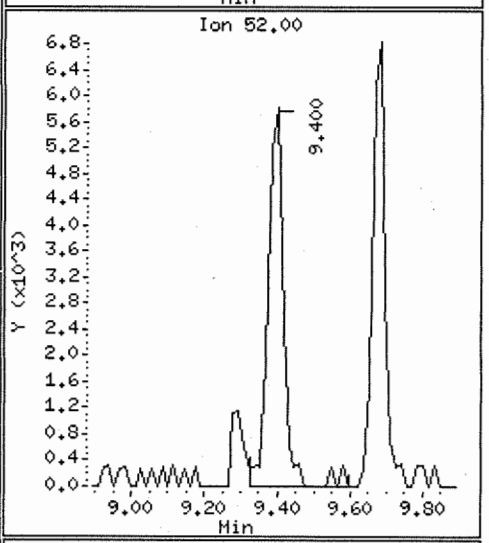
43 Benzene

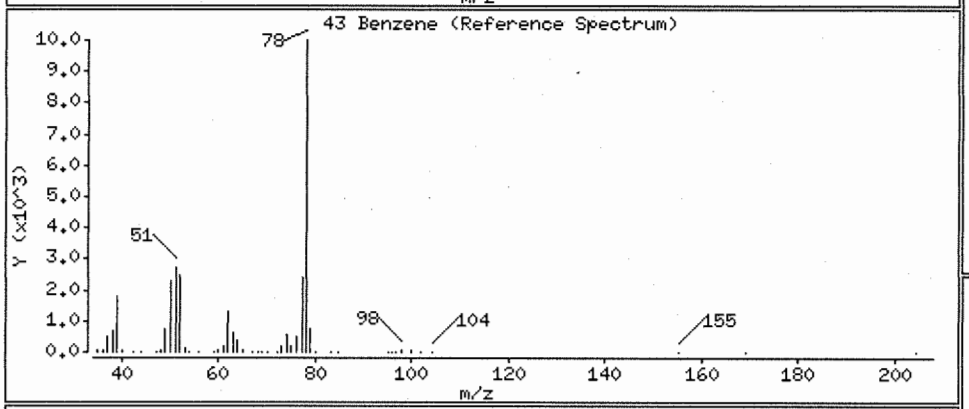
Concentration: 0.529 ug/L

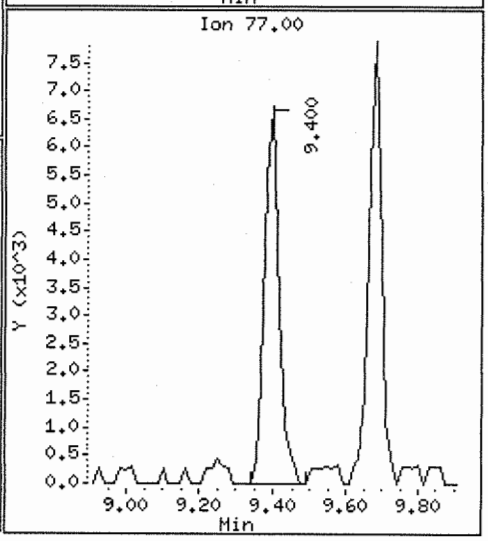


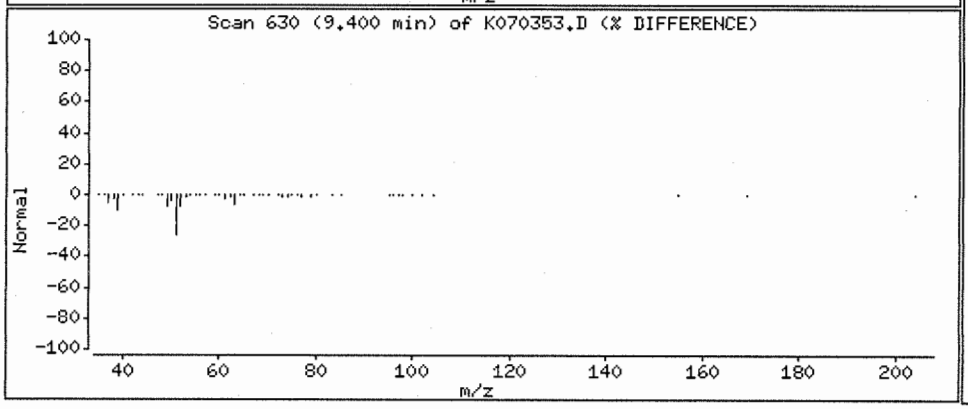












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

Client ID: BLD120-MW-3

Instrument: MSK.i

Sample Info: D0700056-005

Purge Volume: 10.0

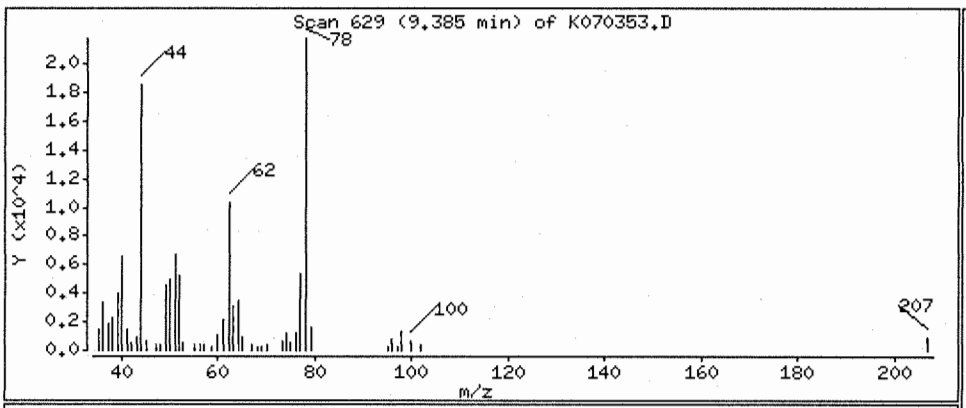
Operator: X

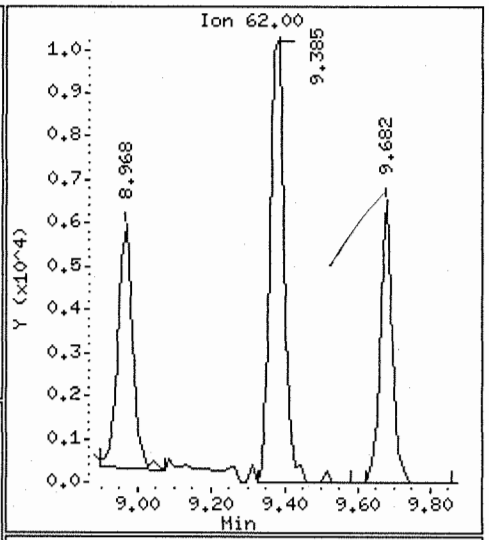
Column phase: DB-624

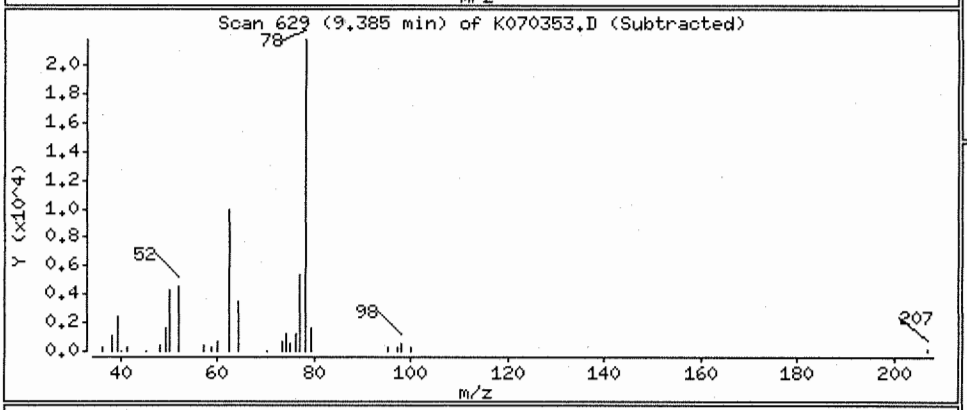
Column diameter: 0.32

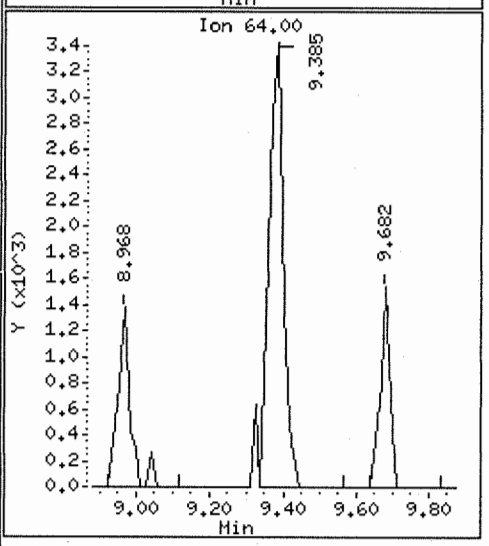
44 1,2-Dichloroethane

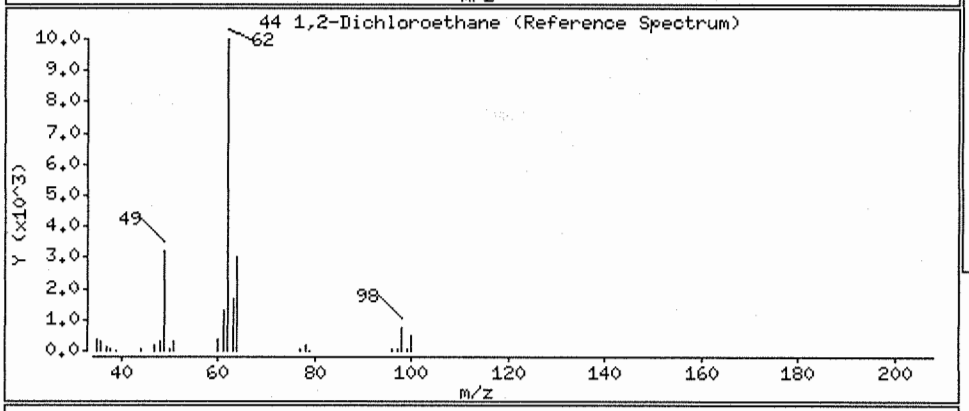
Concentration: 0.585 ug/L

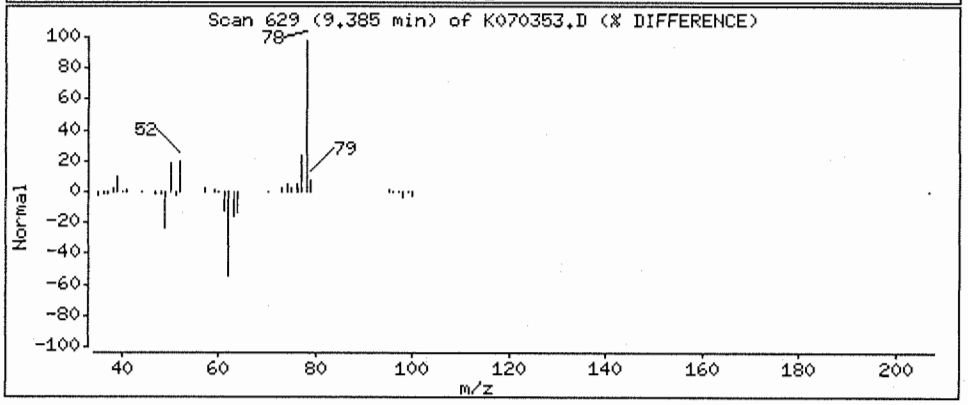












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

Client ID: BLD120-MW-3

Instrument: MSK.i

Sample Info: D0700056-005

Purge Volume: 10.0

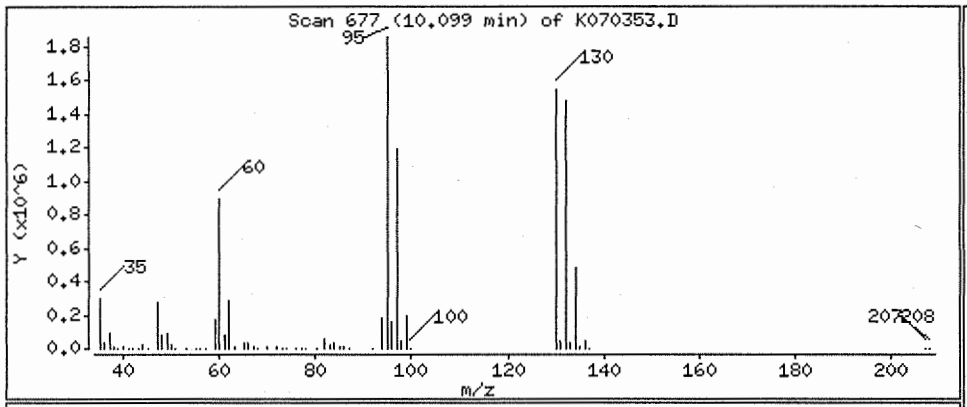
Operator: X

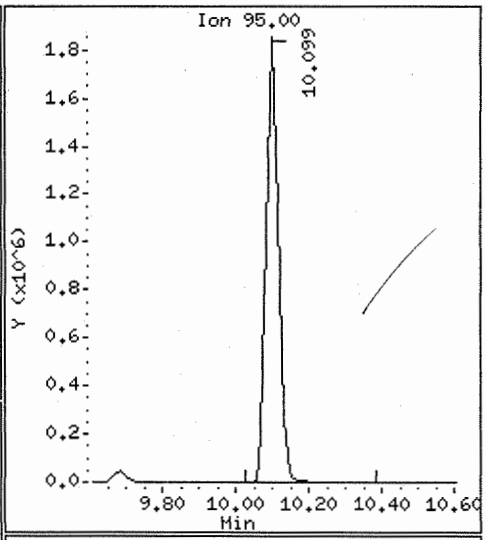
Column phase: DB-624

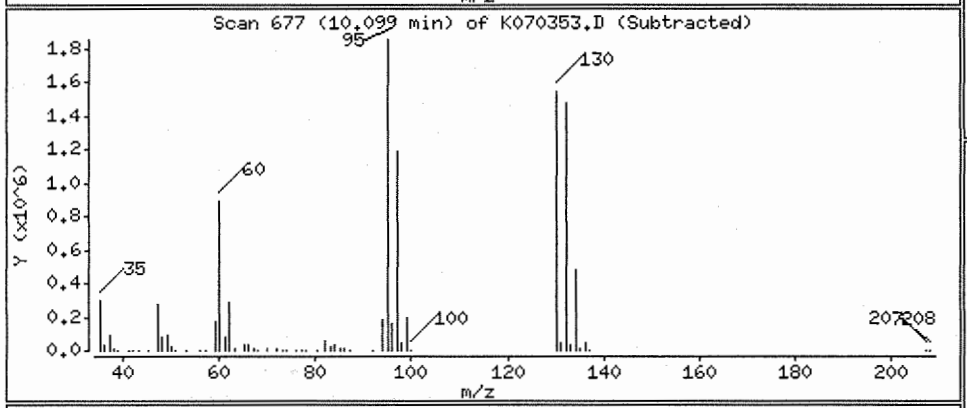
Column diameter: 0.32

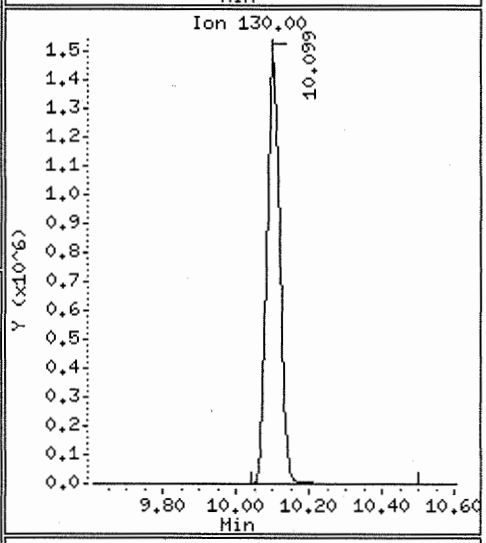
45 Trichloroethene

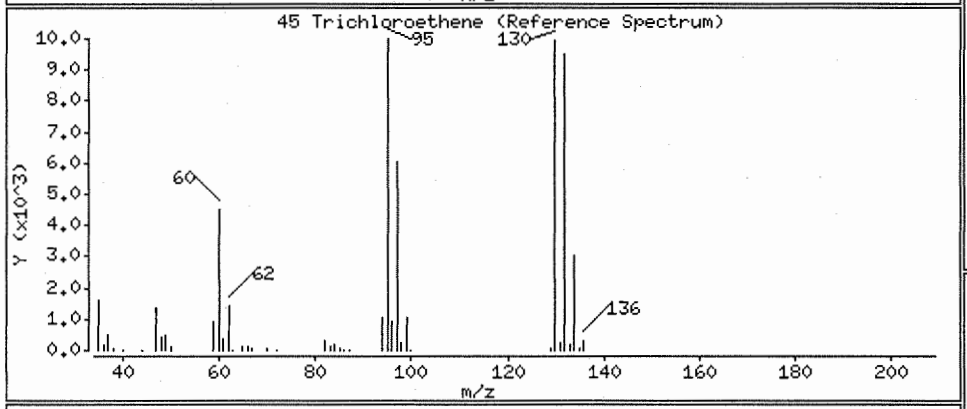
Concentration: 109 ug/L

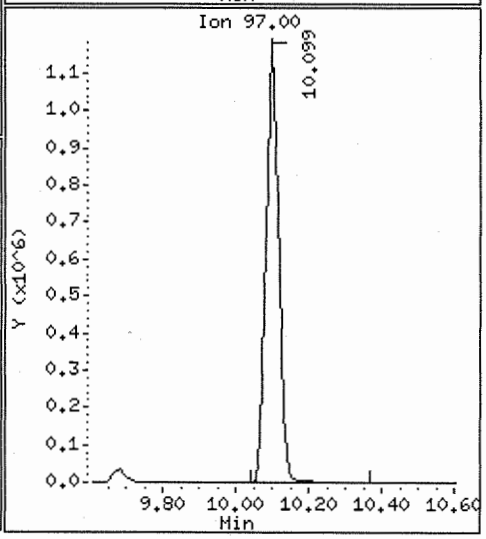


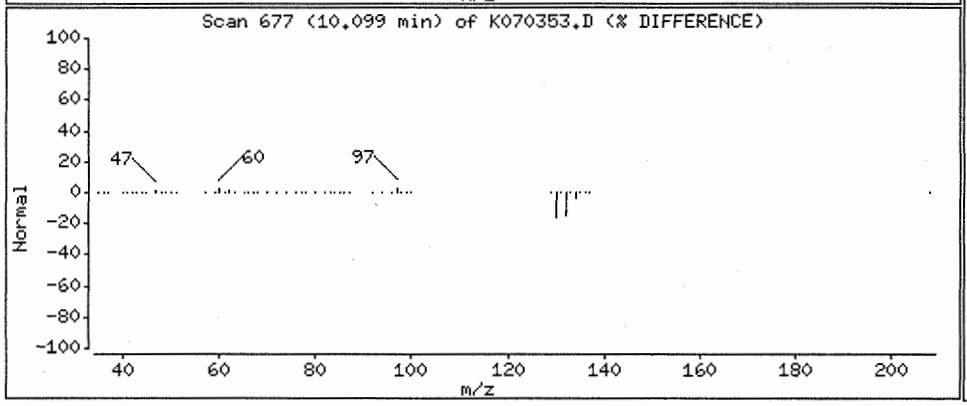












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

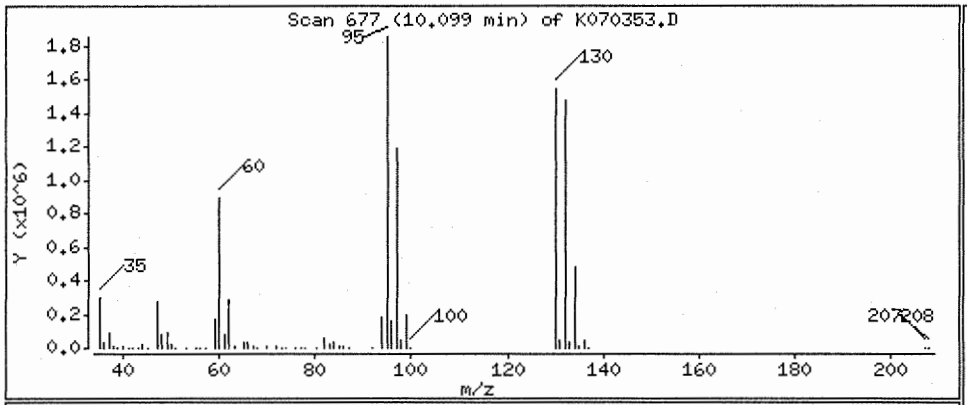
Client ID: BLD120-MW-3 Instrument: MSK.i

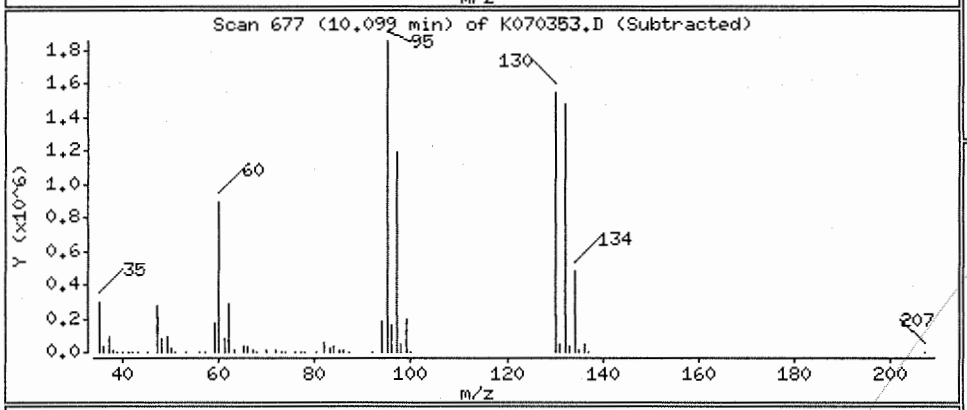
Sample Info: D0700056-005

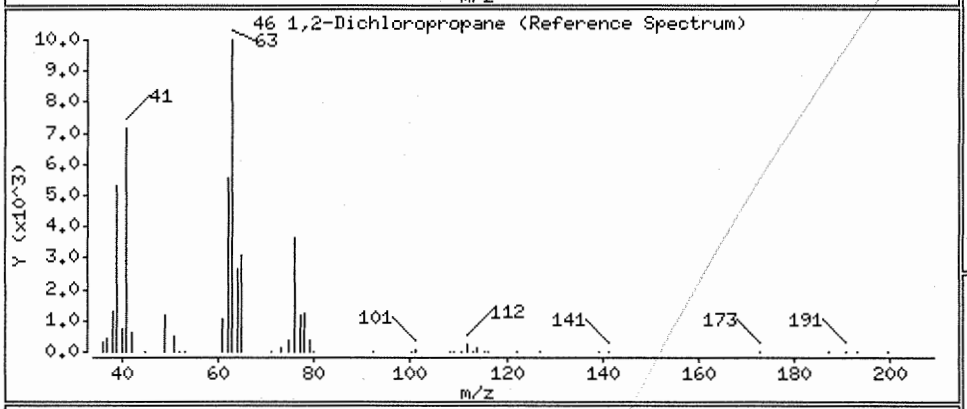
Purge Volume: 10.0 Operator: X

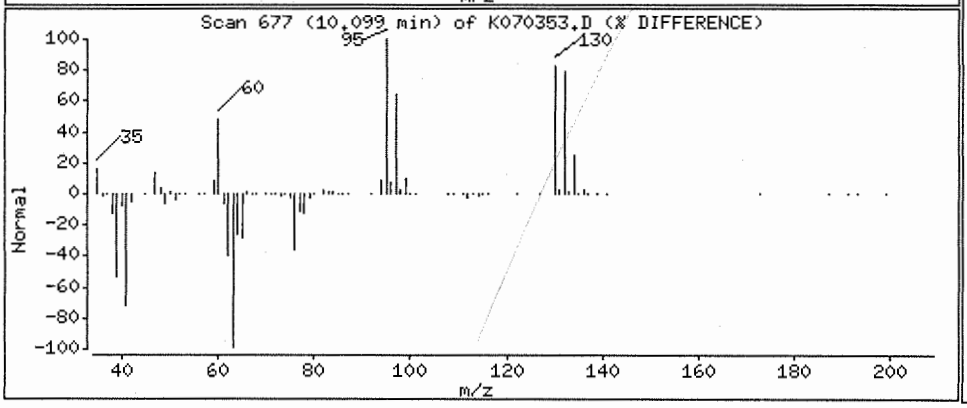
Column phase: DB-624 Column diameter: 0.32

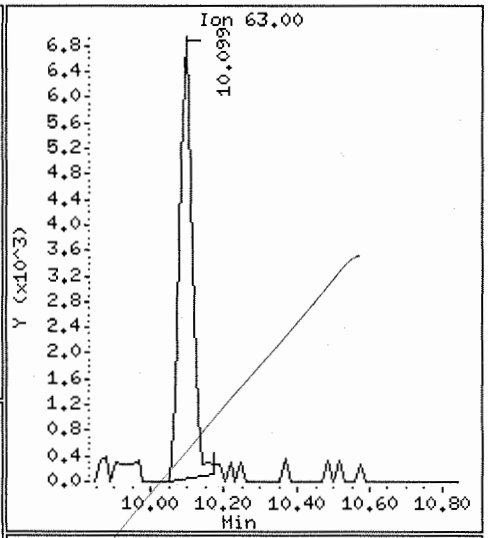
46 1,2-Dichloropropane Concentration: 0.397 ug/L

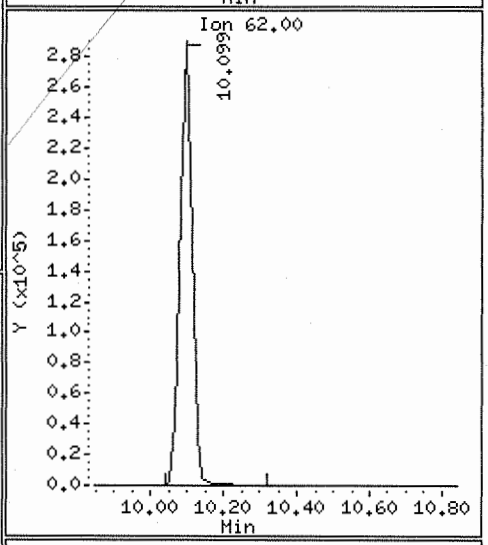


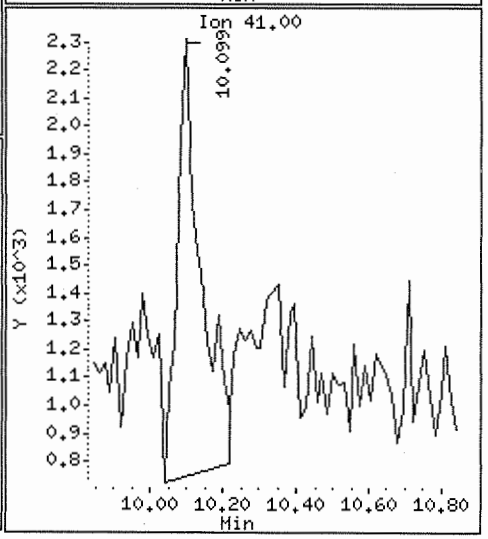












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

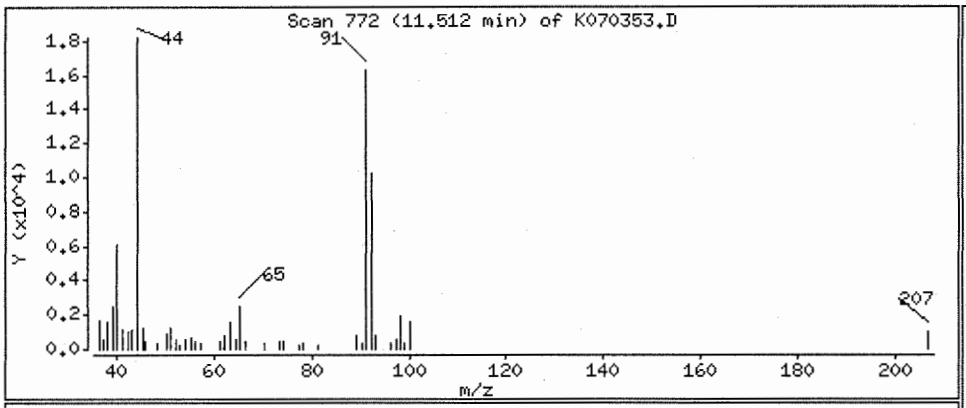
Client ID: BLD120-MW-3 Instrument: MSK.i

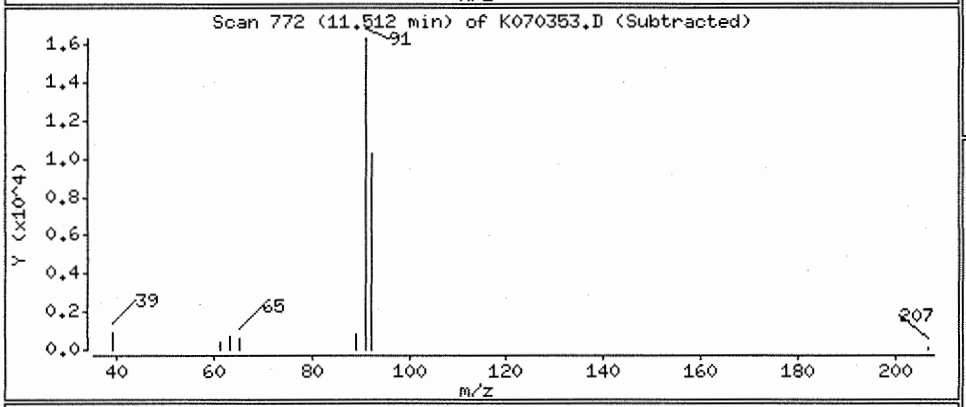
Sample Info: D0700056-005

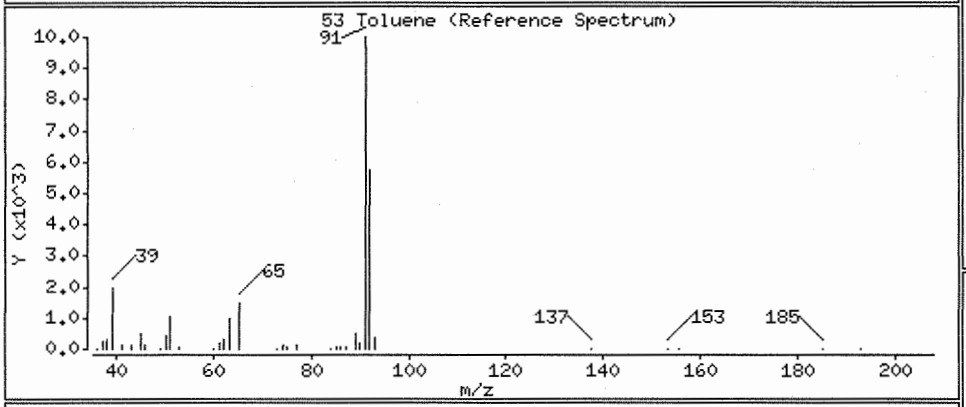
Purge Volume: 10.0 Operator: X

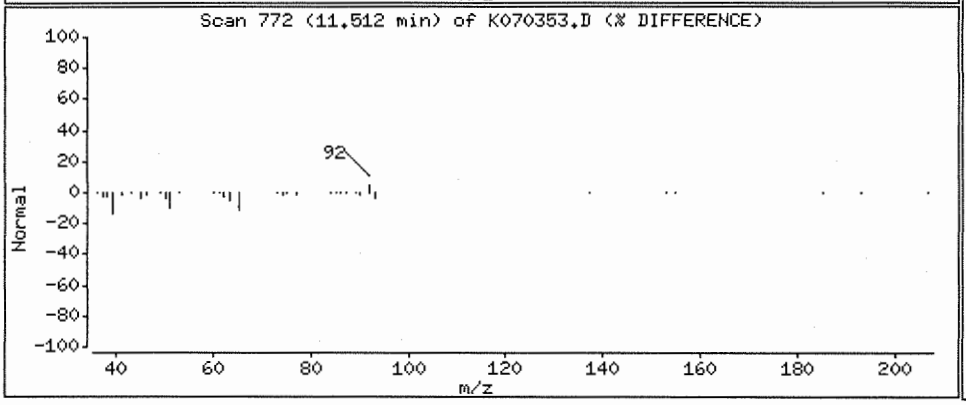
Column phase: DB-624 Column diameter: 0.32

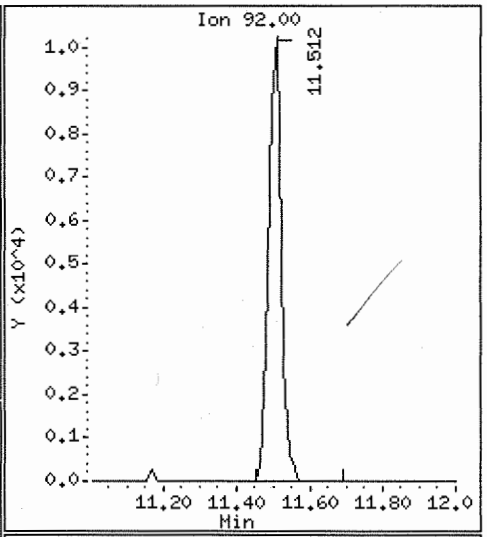
53 Toluene Concentration: 0.314 ug/L

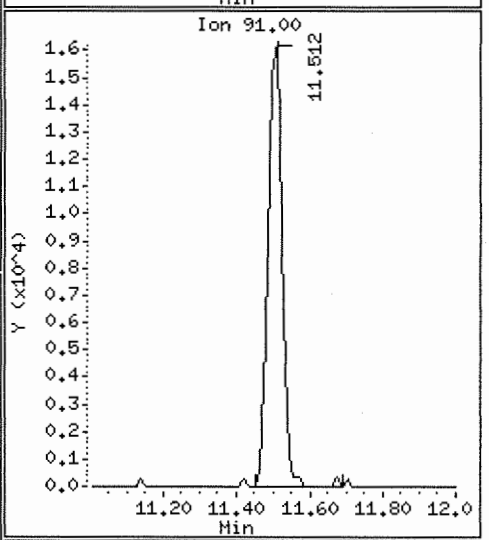


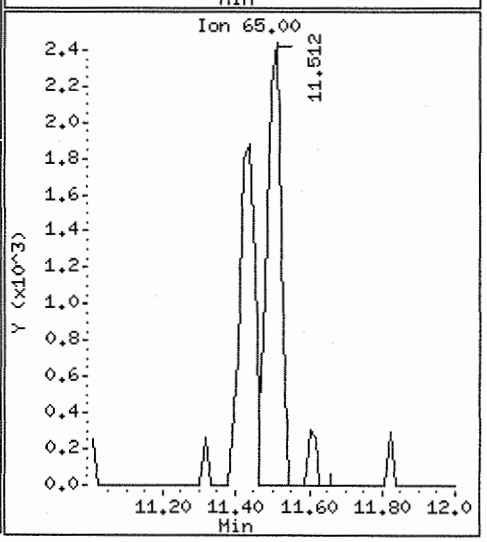












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

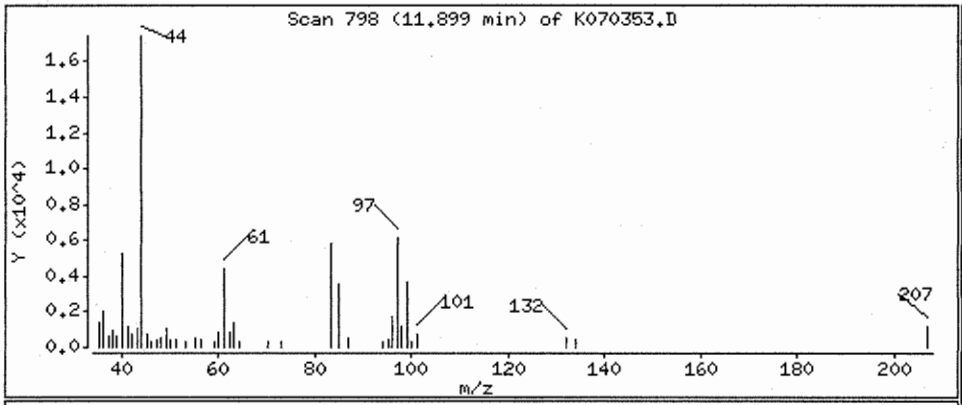
Client ID: BLD120-MW-3 Instrument: MSK.i

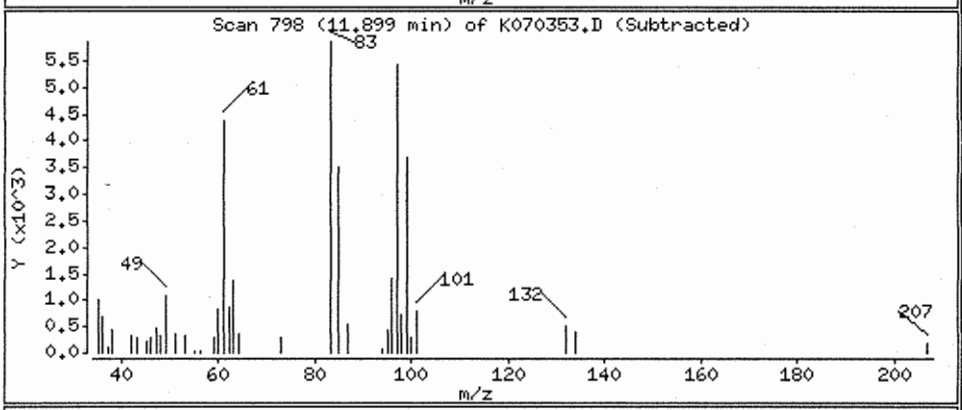
Sample Info: D0700056-005

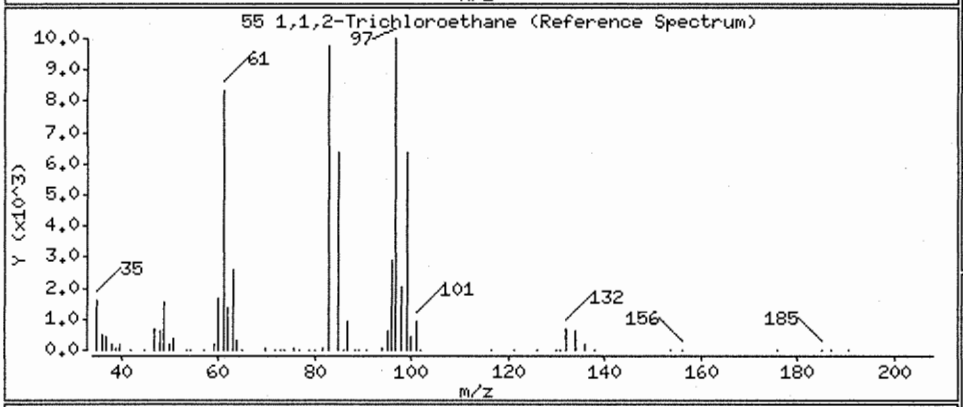
Purge Volume: 10.0 Operator: X

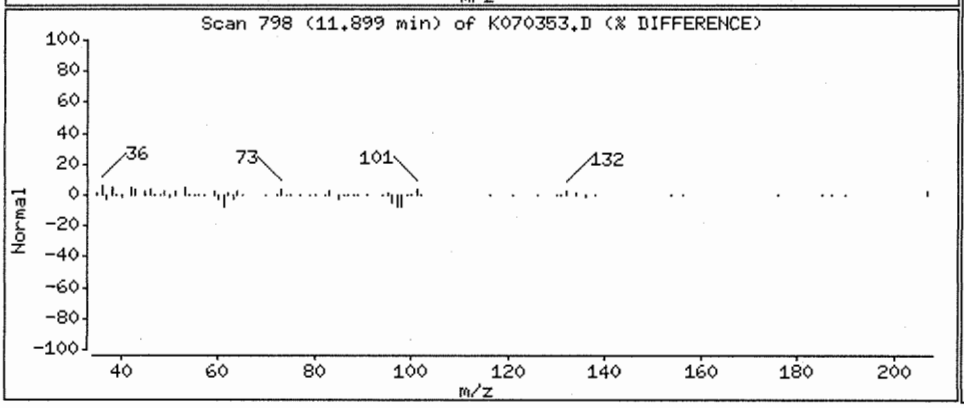
Column phase: DB-624 Column diameter: 0.32

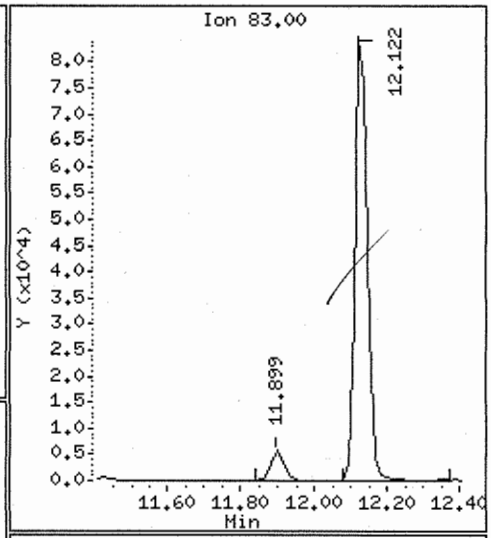
55 1,1,2-Trichloroethane Concentration: 0.320 ug/L

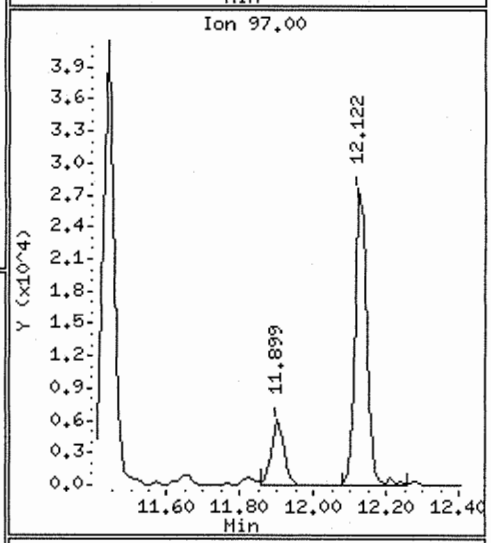


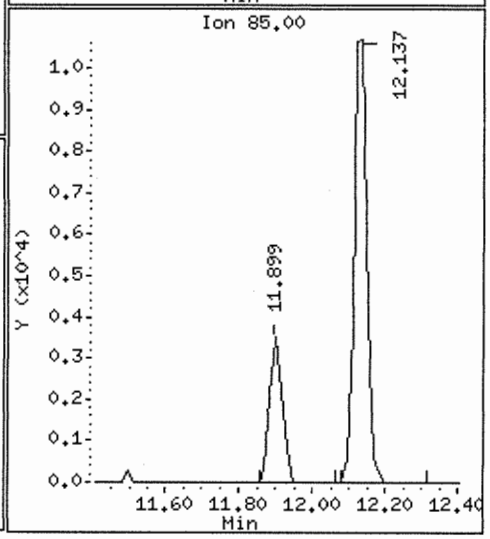












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070116n.b\K070353.D

Date : 17-JAN-2007 03:53

Client ID: BLD120-MW-3

Instrument: MSK.i

Sample Info: D0700056-005

Purge Volume: 10.0

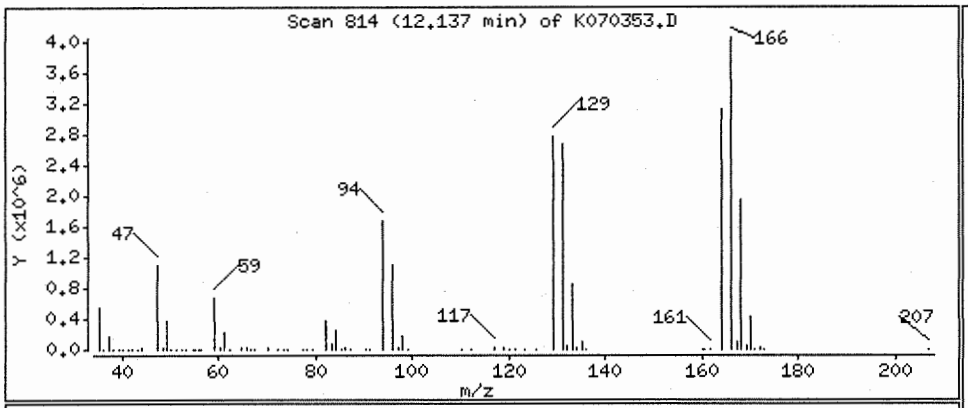
Operator: X

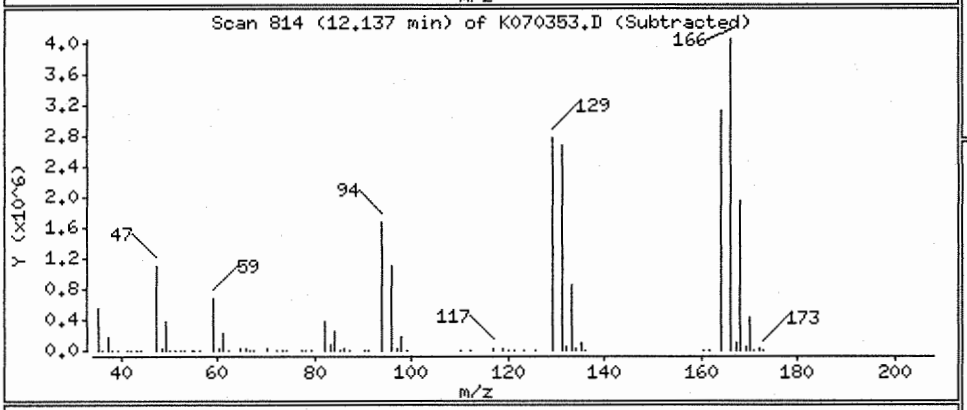
Column phase: DB-624

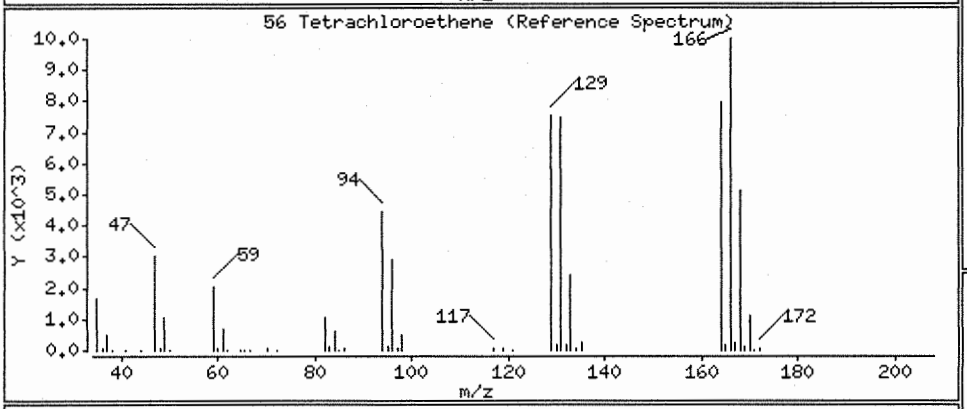
Column diameter: 0.32

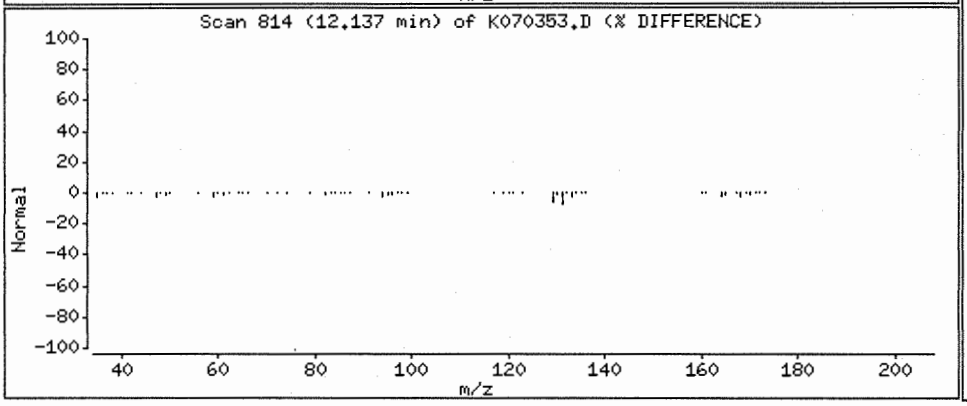
56 Tetrachloroethene

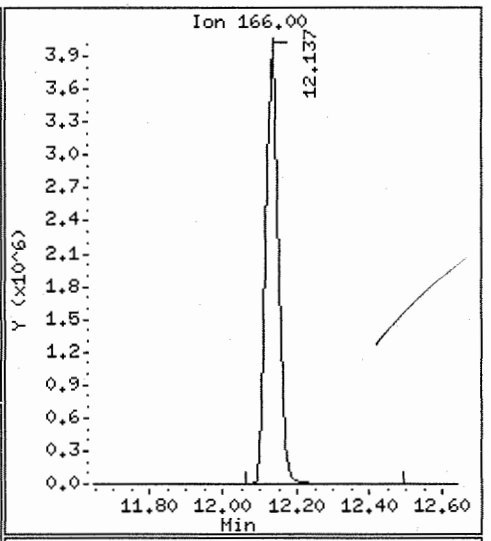
Concentration: 301 ug/L

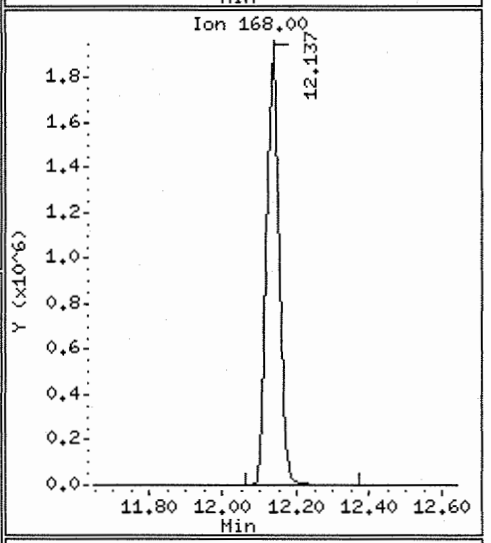


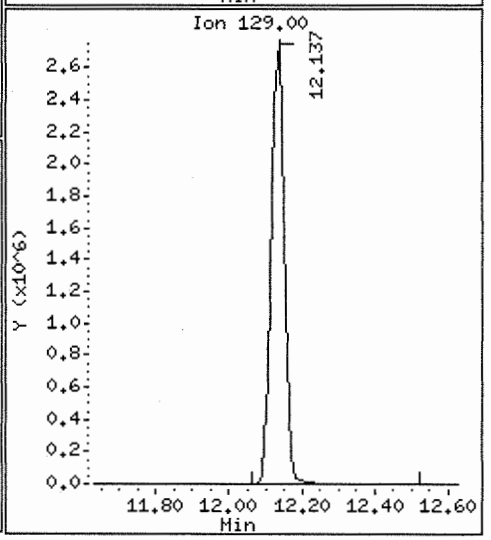












Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D
Lab Smp Id: D0700056-005DL Client Smp ID: BLD120-MW-3DL
Inj Date : 19-JAN-2007 09:22
Operator : X Inst ID: MSK.i
Smp Info : D0700056-005DL
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 8
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8a/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.686	9.673	(1.000)	982839	10.0000	
* 2	Chlorobenzene-d5	117	13.018	13.020	(1.000)	642731	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.606	15.593	(1.000)	262153	10.0000	
$ 4	Dibromofluoromethane	113	8.883	8.870	(0.917)	336543	10.6246	10.6
$ 5	1,2-Dichloroethane-d4	65	9.285	9.287	(0.959)	337564	11.5839	11.6
$ 6	Toluene-d8	98	11.427	11.414	(0.878)	840474	10.0794	10.1
$ 7	Bromofluorobenzene	174	14.282	14.284	(0.915)	234322	9.87905	9.88
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	4.034	4.036	(0.417)	5542	0.20852	~~10.4(a)~~
12	Bromomethane	94	4.391	4.646	(0.453)	1916	0.72203	~~36.1(a)~~
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	6.057	6.044	(0.625)	102080	4.29593	215
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	7.098	7.085	(0.733)	41262	1.40226	70.1
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	7.634	7.621	(0.788)	52054	0.93354	46.7
30	Vinyl acetate	43	Compound Not Detected.					

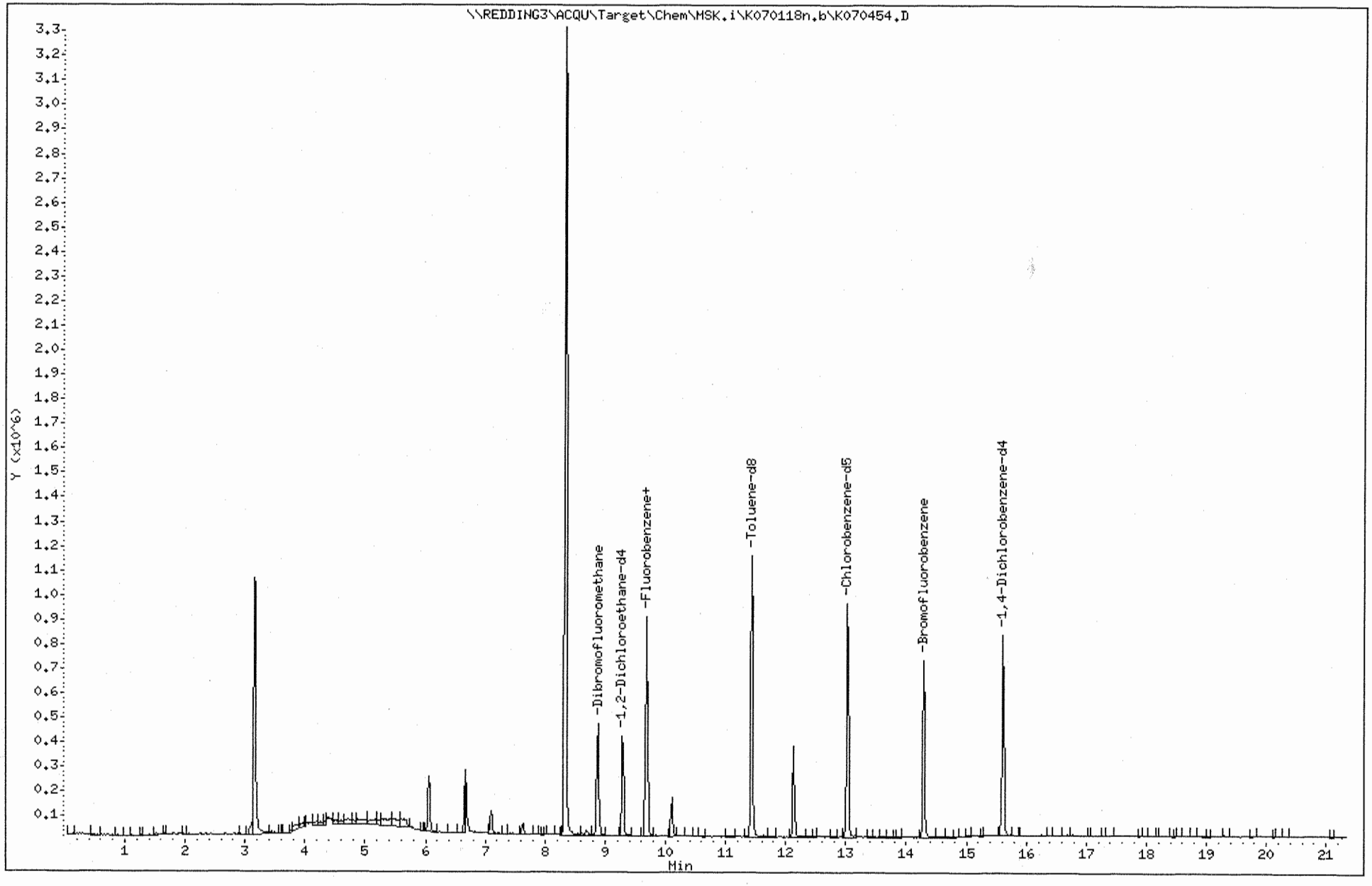
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.333	8.335	(0.860)	1663075	51.4853	2570
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.690	8.677	(0.897)	12193	0.23272	11.6(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.686	9.361	(1.000)	14249	0.38808	19.4(a)
45	Trichloroethene	95	10.103	10.090	(1.043)	63415	2.07047	104
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	12.141	12.128	(0.933)	136827	5.69805	285
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D
Date : 19-JAN-2007 09:22
Client ID: BLD120-MW-3DL
Sample Info: D0700056-005DL
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

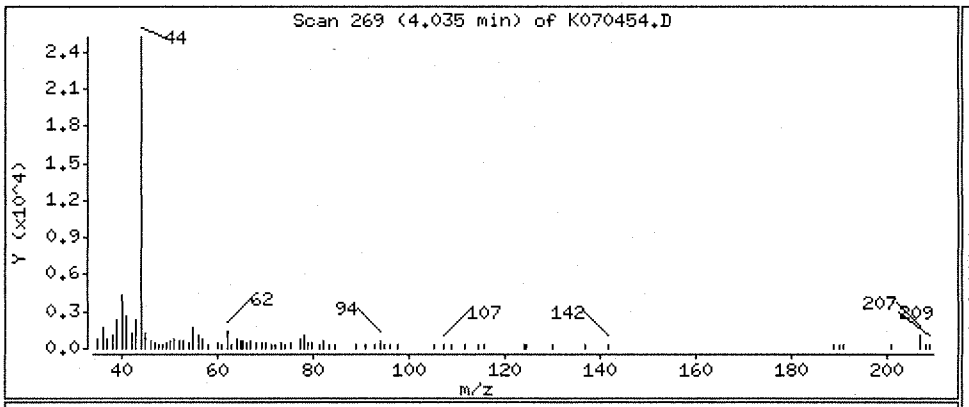
Operator: X

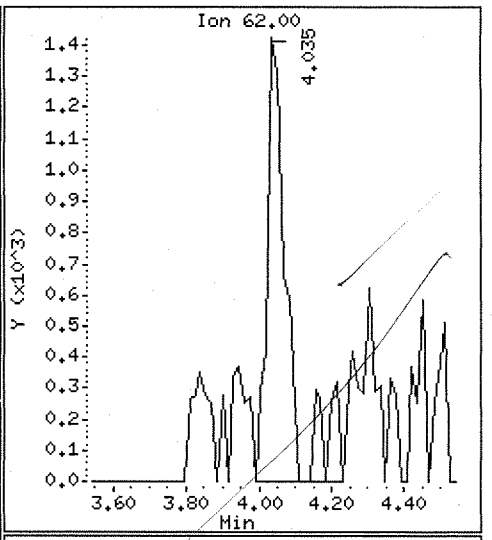
Column phase: DB-624

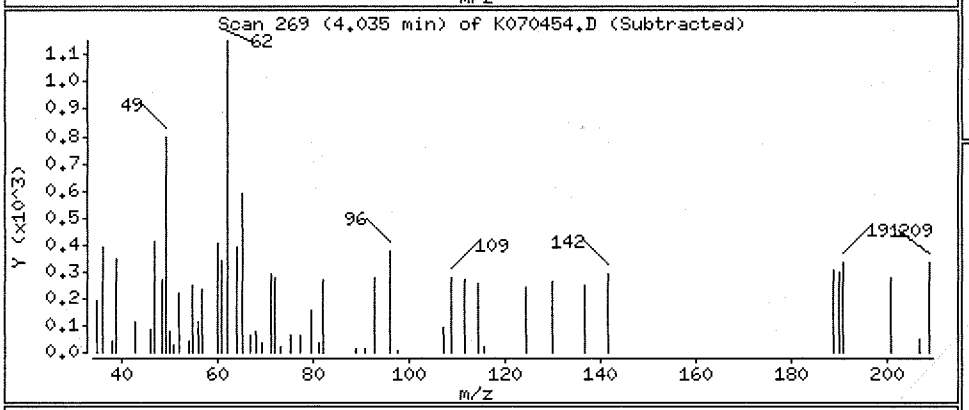
Column diameter: 0.32

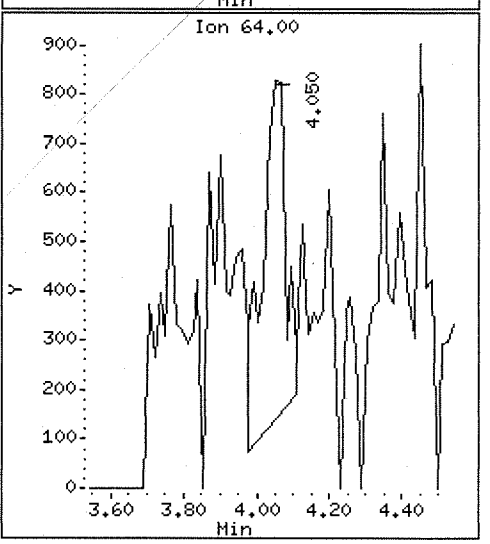
11 Vinyl chloride

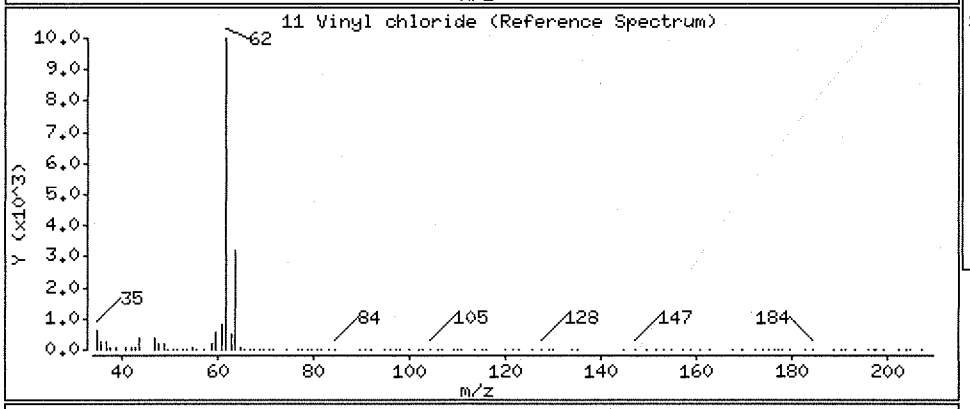
Concentration: 10.4 ug/L

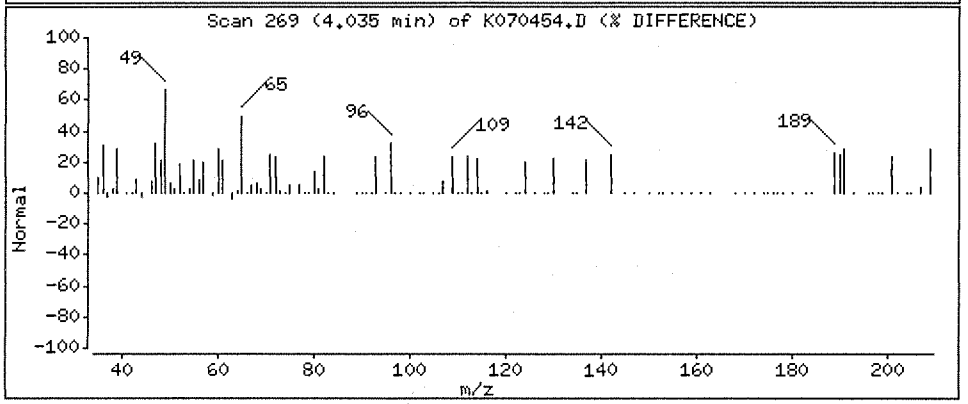












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

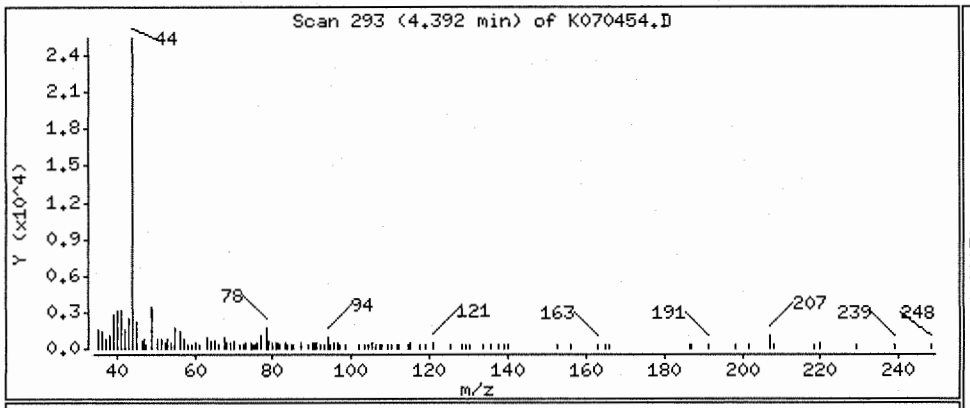
Operator: X

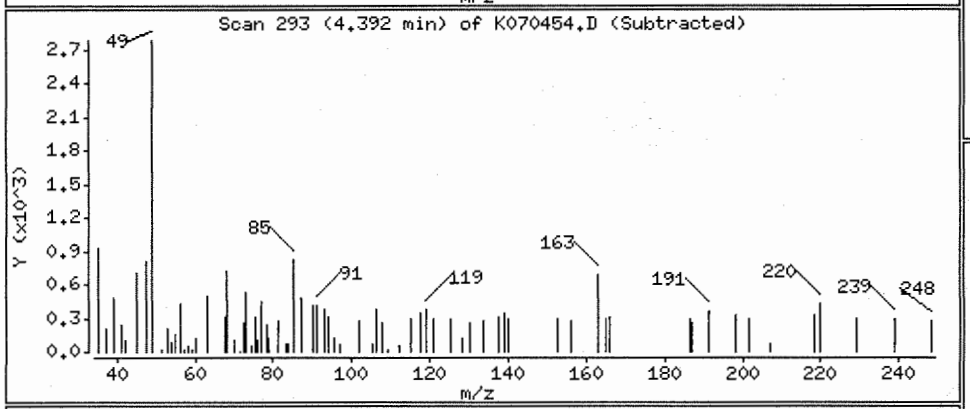
Column phase: DB-624

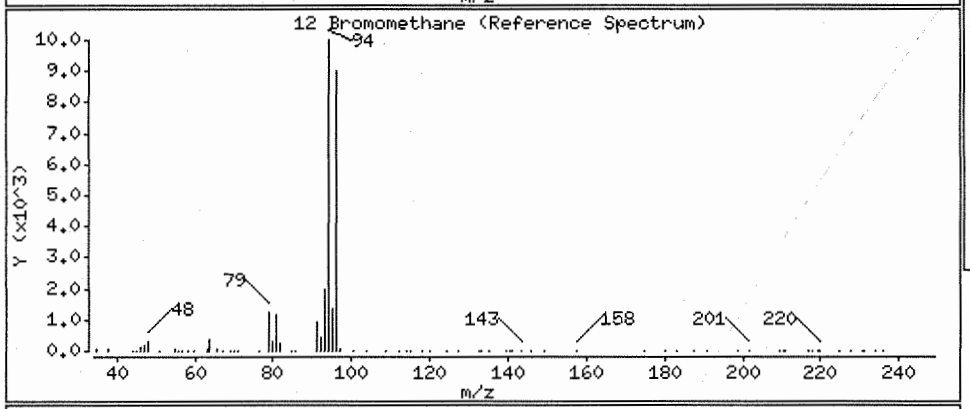
Column diameter: 0.32

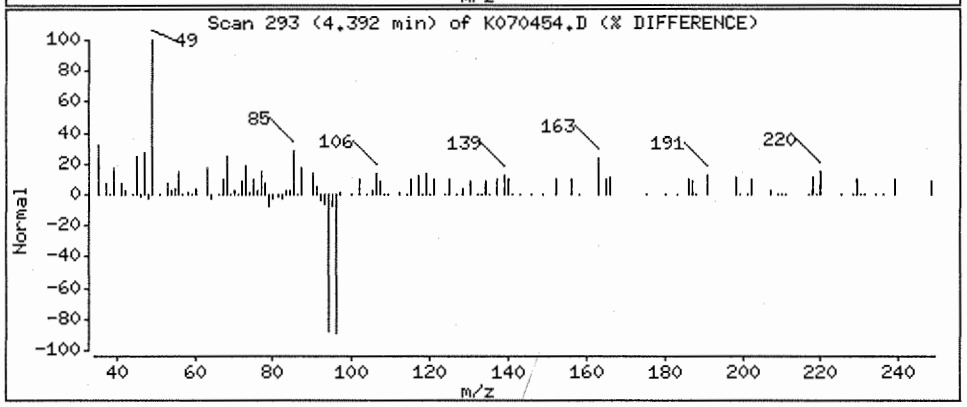
12 Bromomethane

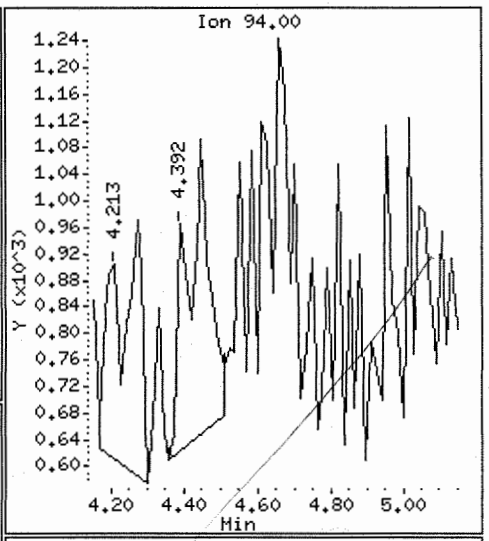
Concentration: 36.1 ug/L

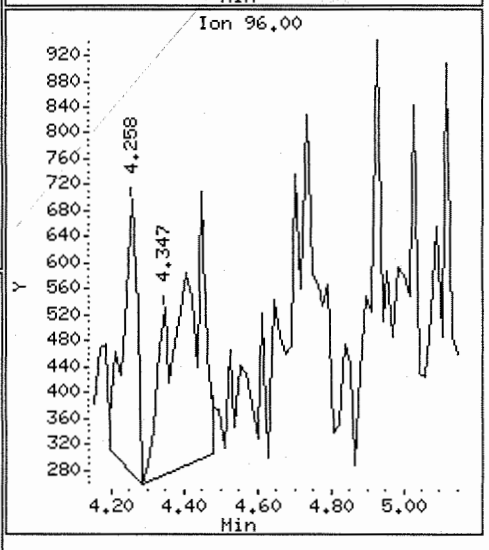












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

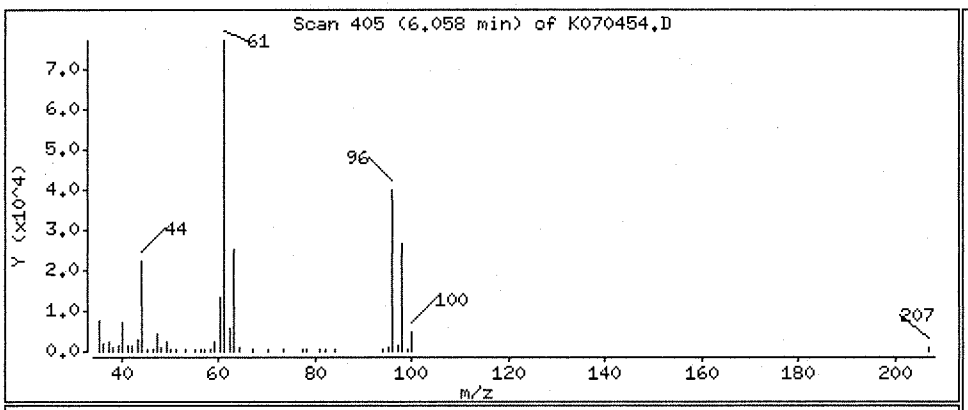
Operator: X

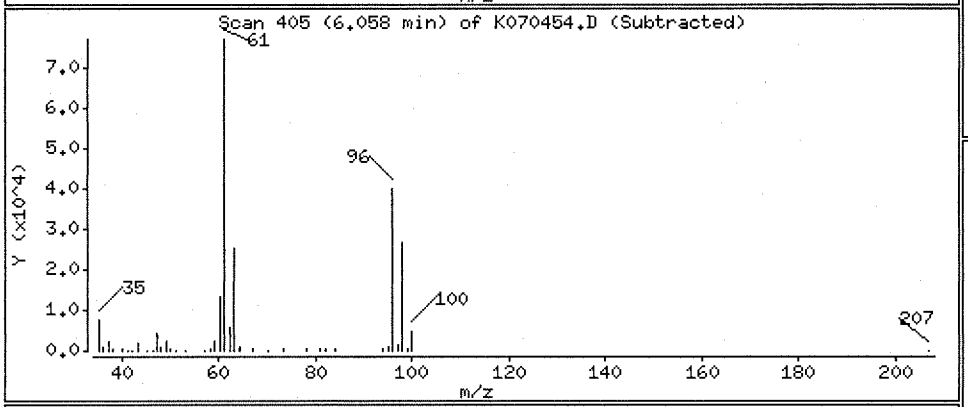
Column phase: DB-624

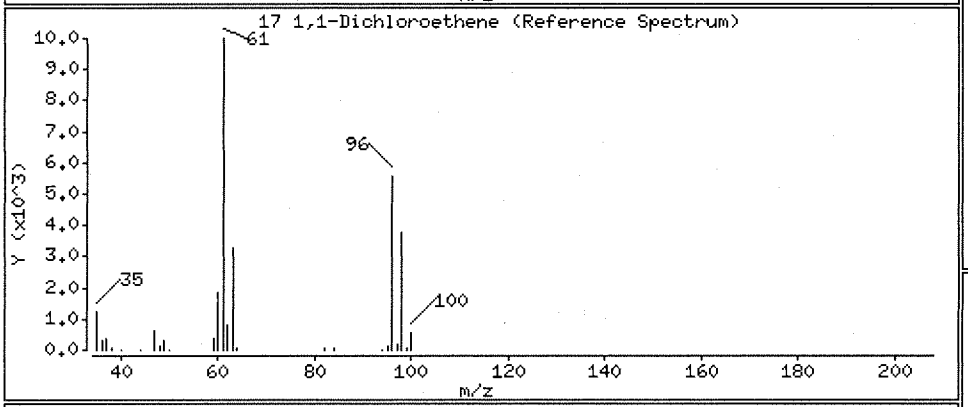
Column diameter: 0.32

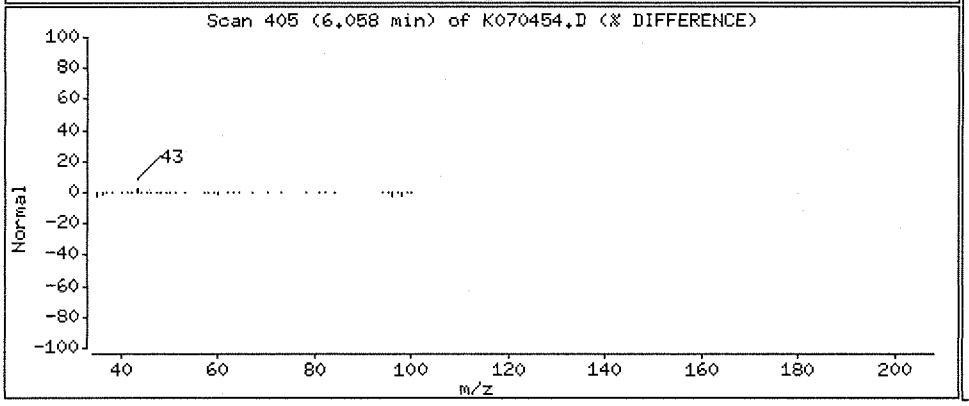
17 1,1-Dichloroethene

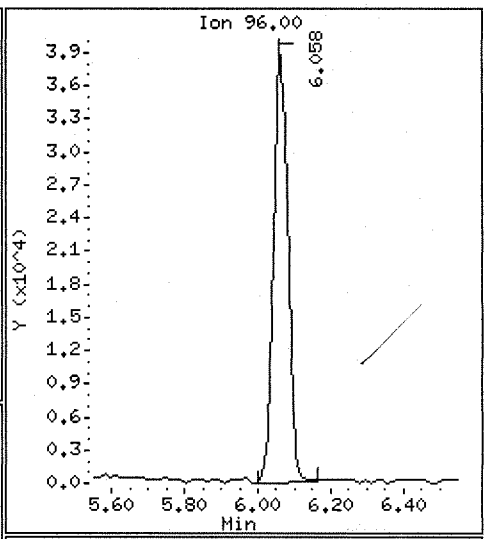
Concentration: 215 ug/L

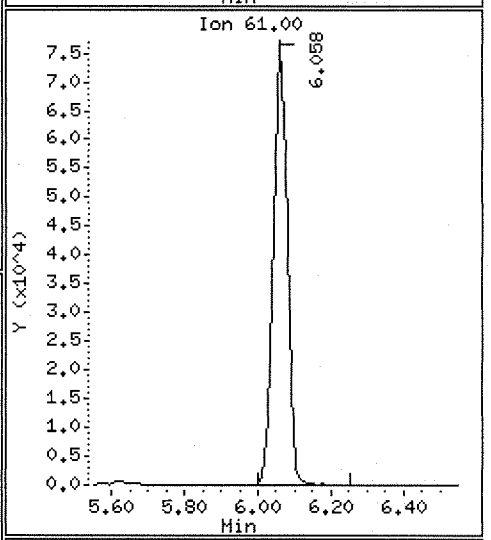


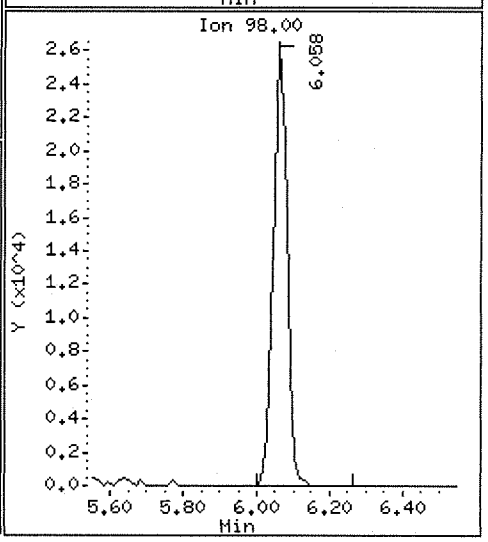












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

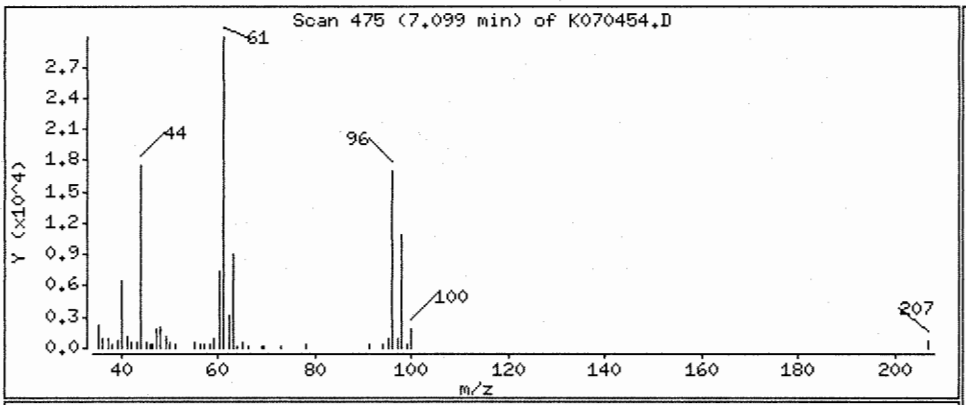
Operator: X

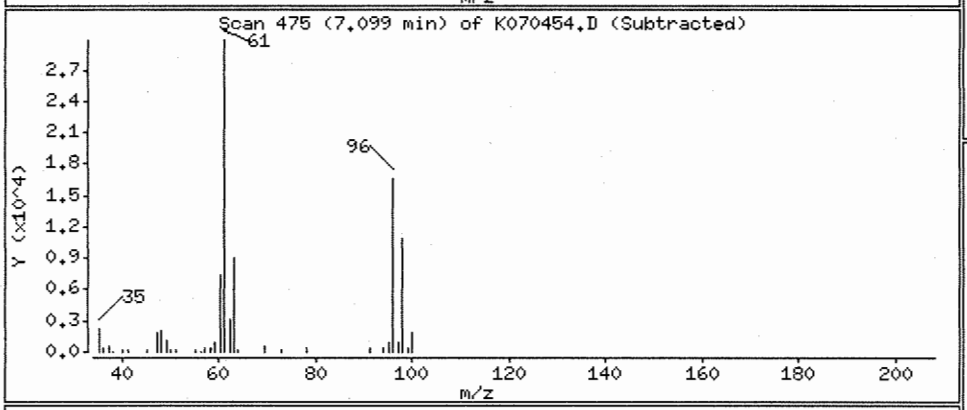
Column phase: DB-624

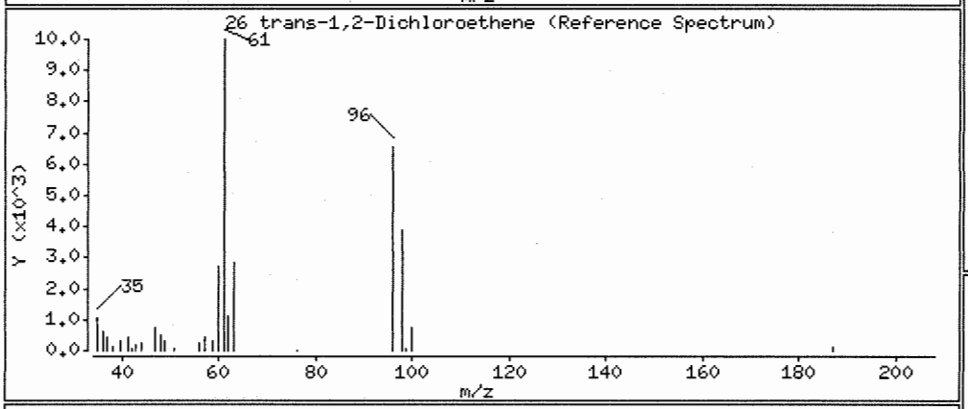
Column diameter: 0.32

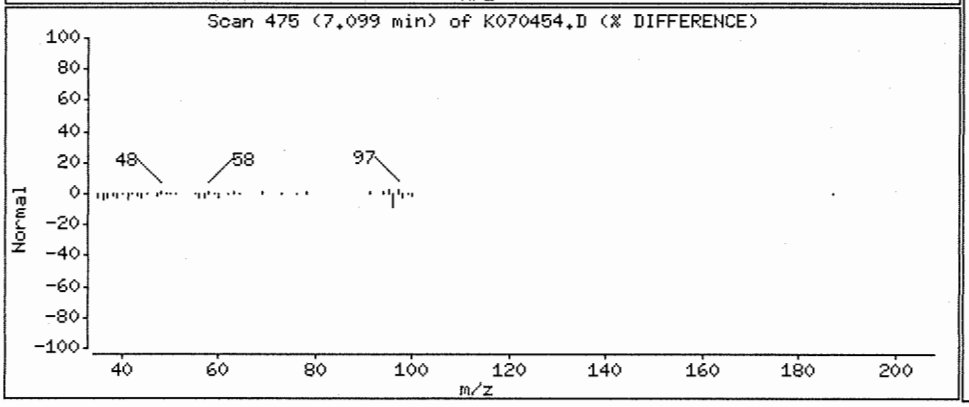
26 trans-1,2-Dichloroethene

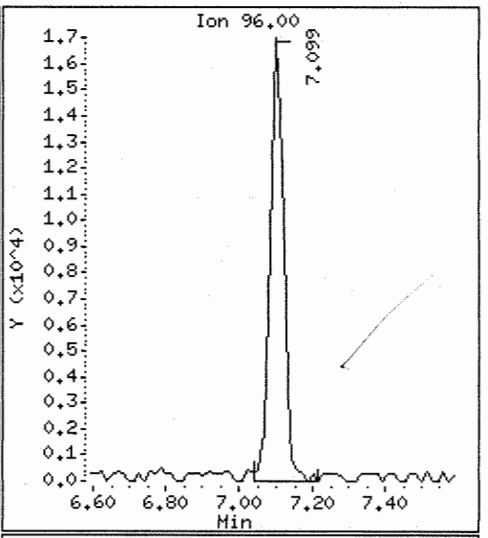
Concentration: 70.1 ug/L

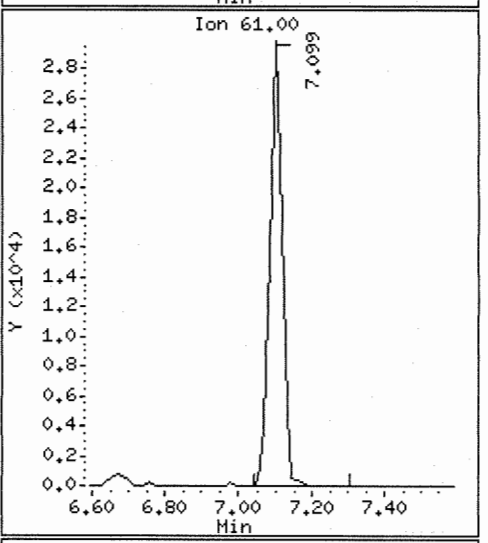


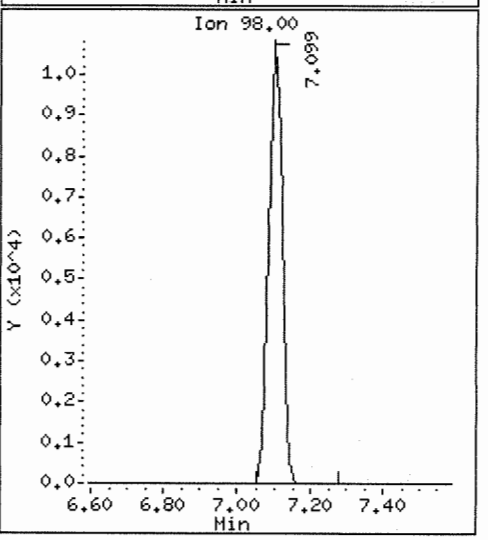












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

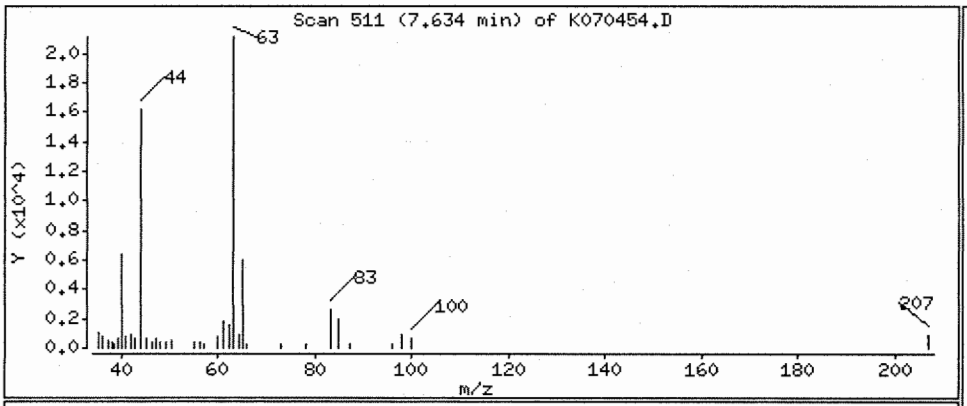
Operator: X

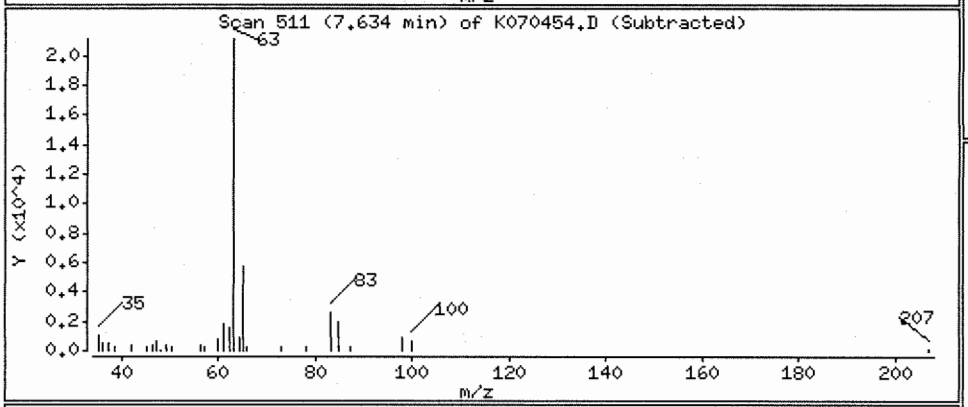
Column phase: DB-624

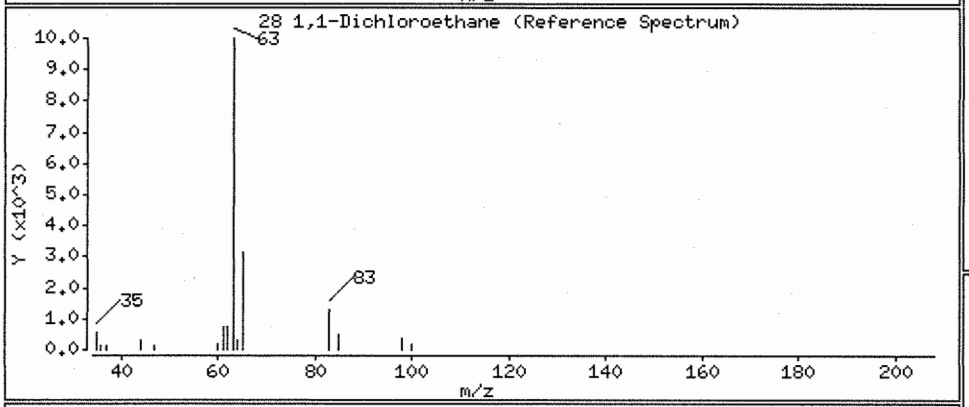
Column diameter: 0.32

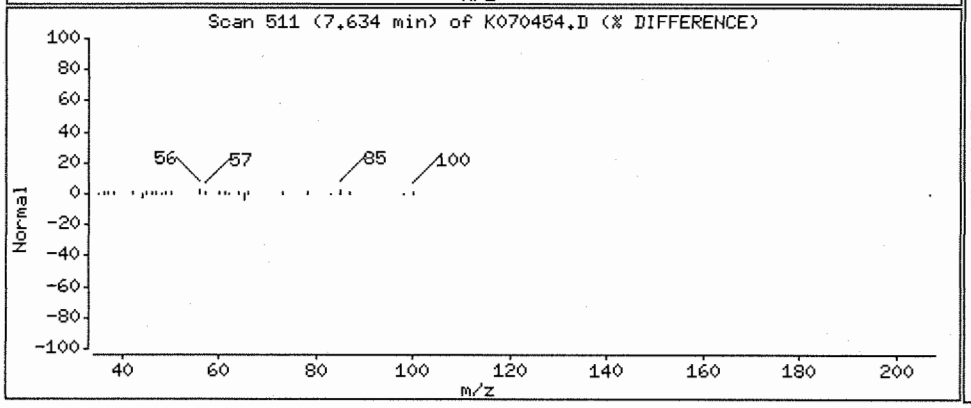
28 1,1-Dichloroethane

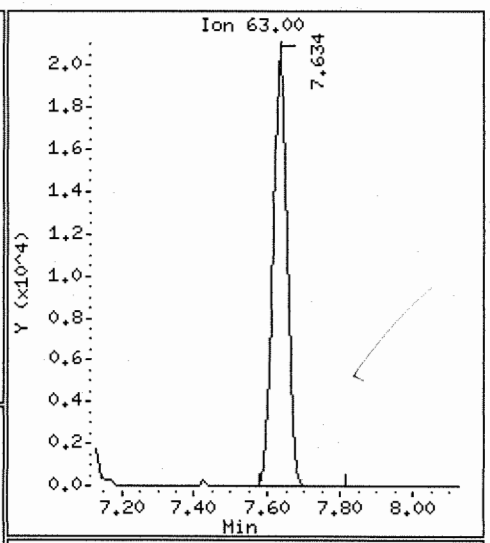
Concentration: 46.7 ug/L

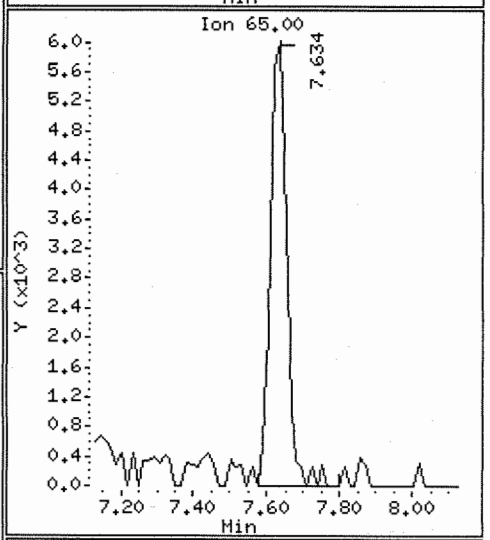


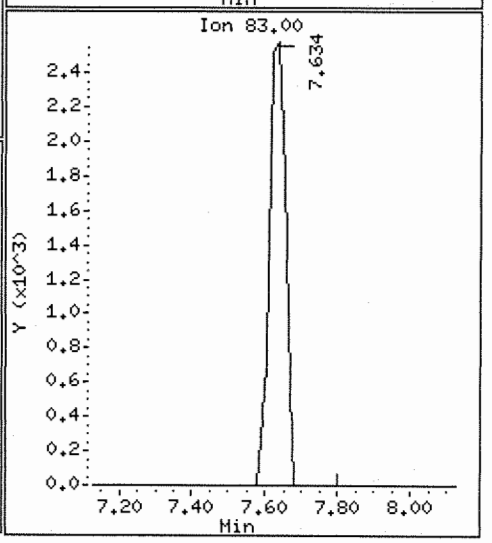












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

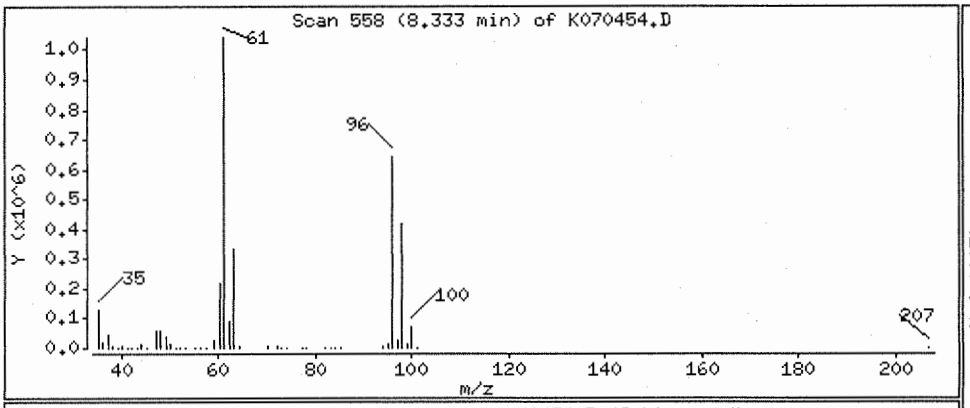
Operator: X

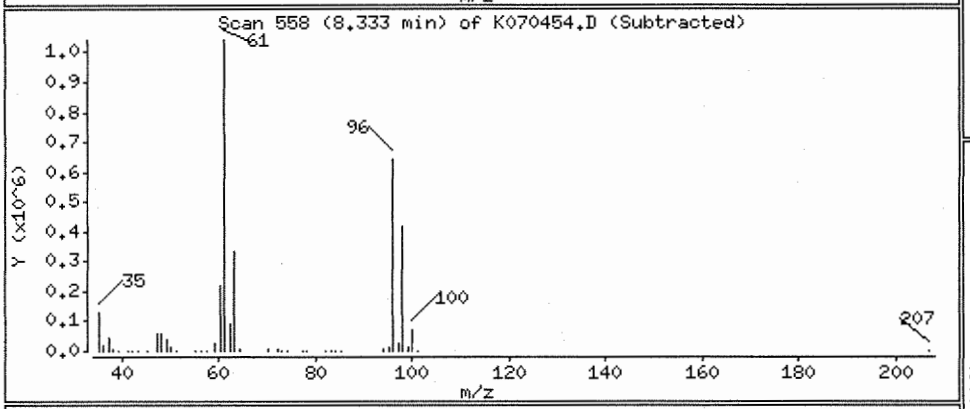
Column phase: DB-624

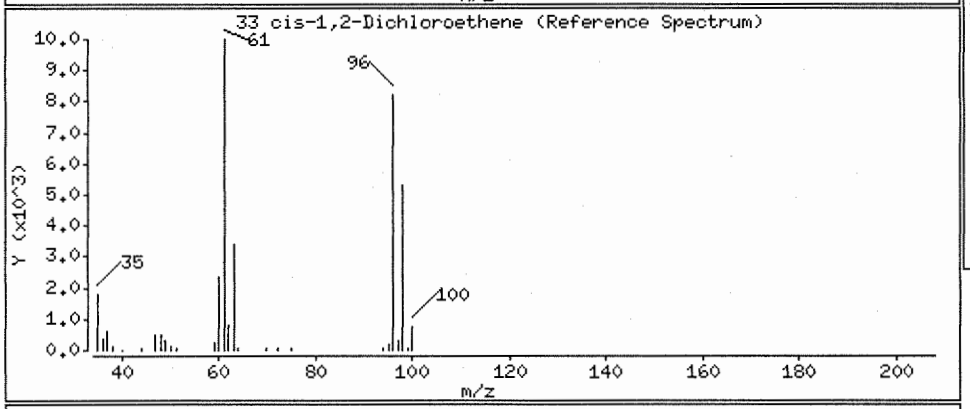
Column diameter: 0.32

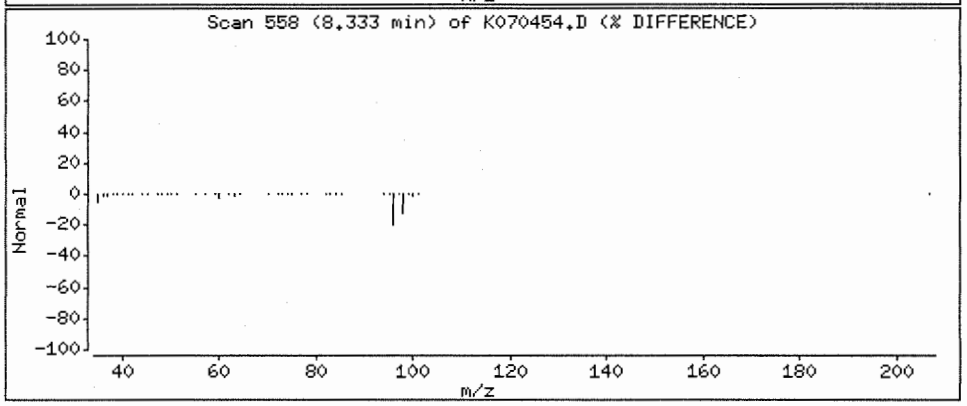
33 cis-1,2-Dichloroethene

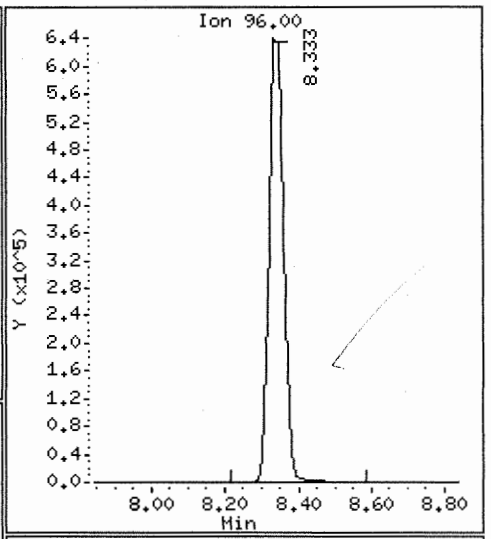
Concentration: 2570 ug/L

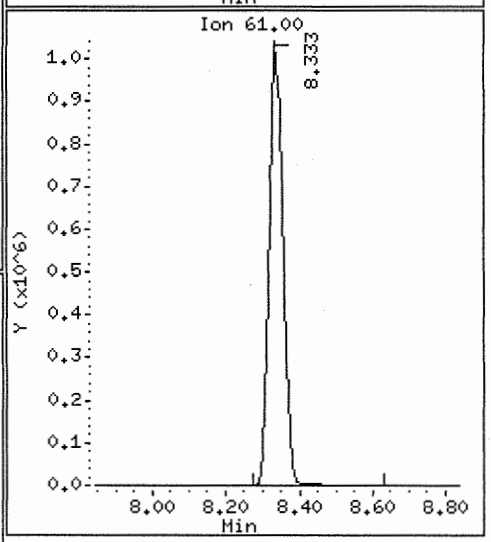












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

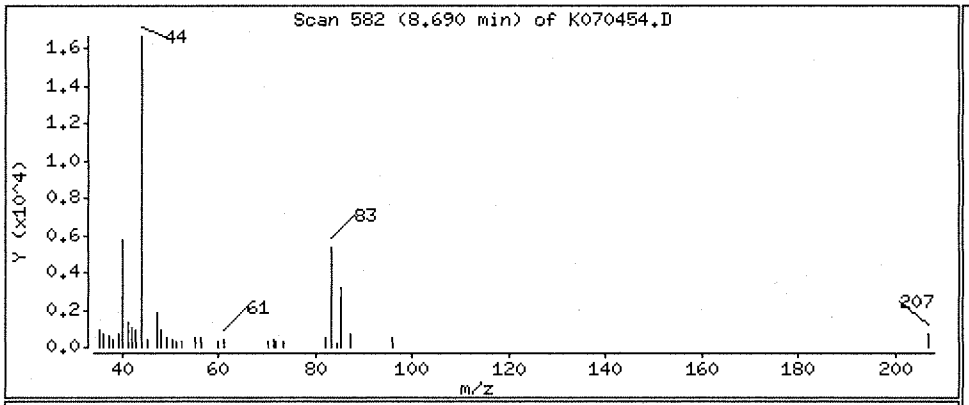
Operator: X

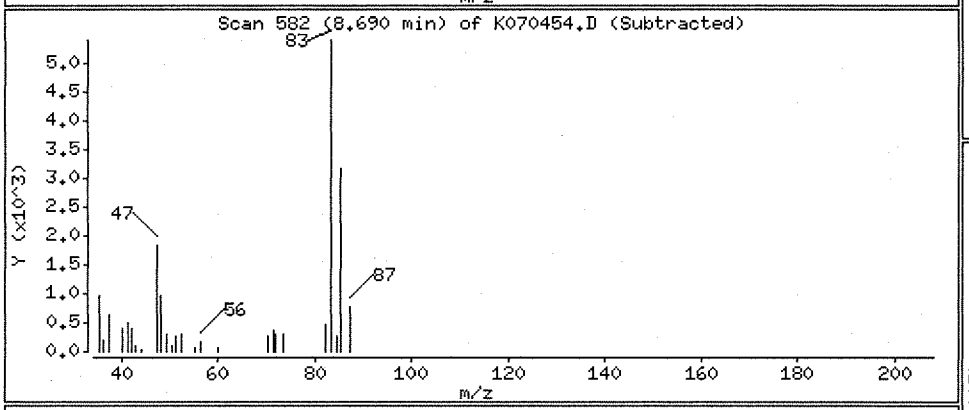
Column phase: DB-624

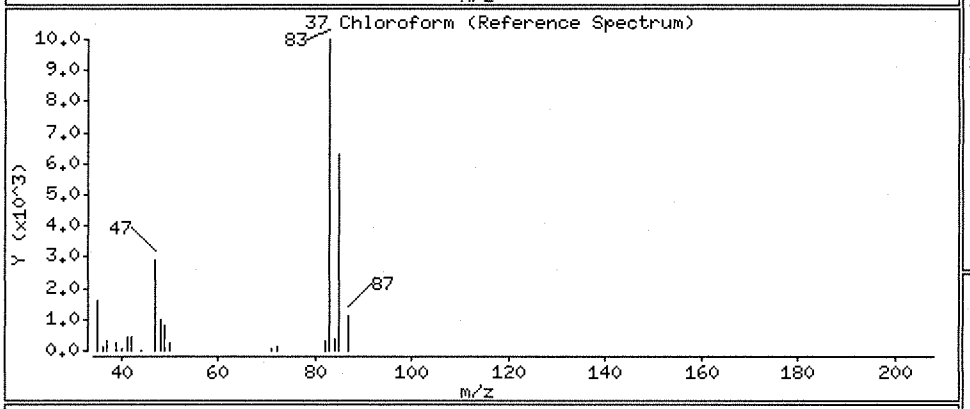
Column diameter: 0.32

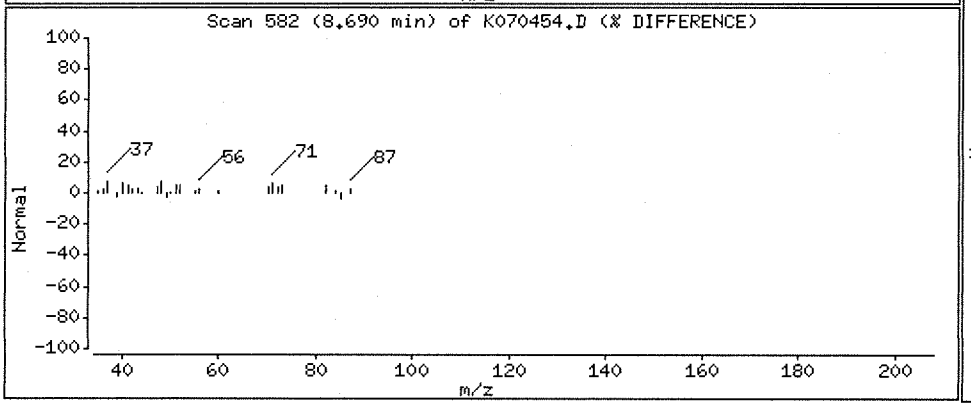
37 Chloroform

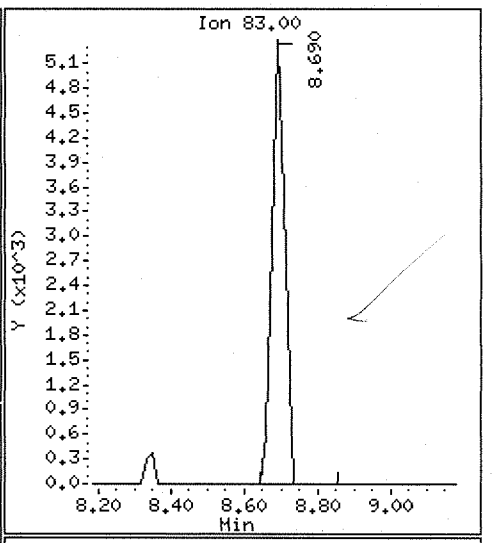
Concentration: 11.6 ug/L

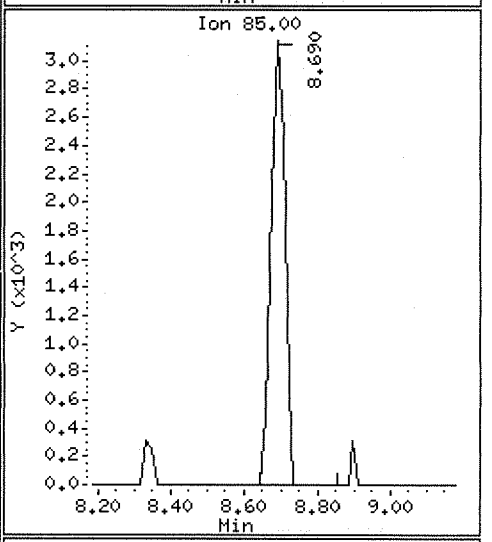


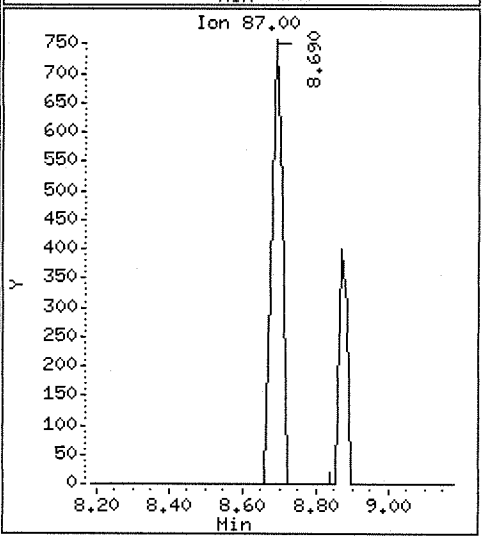












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

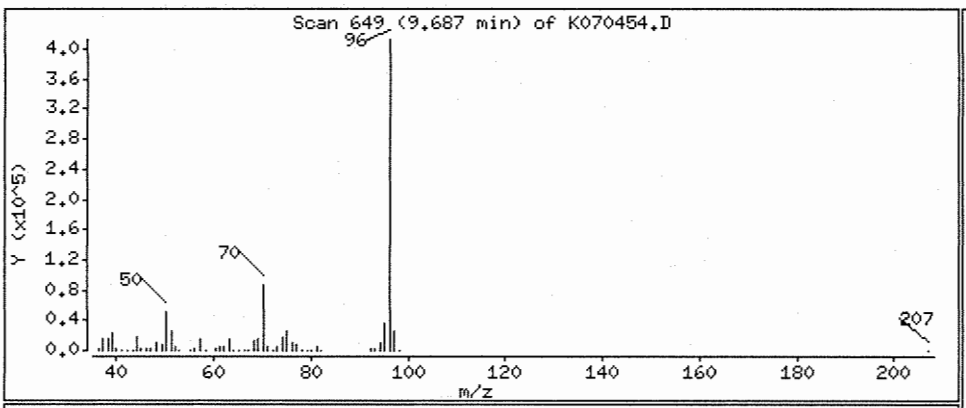
Operator: X

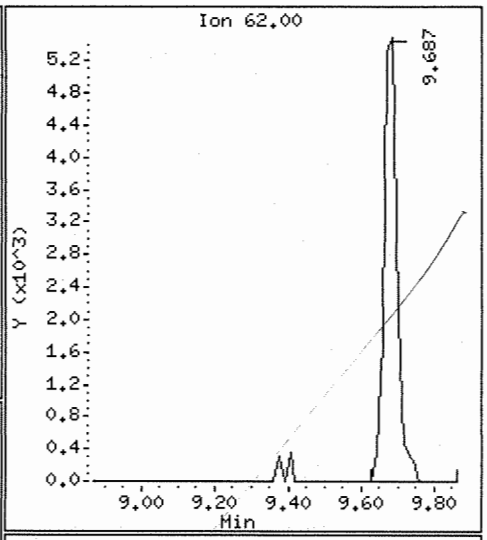
Column phase: DB-624

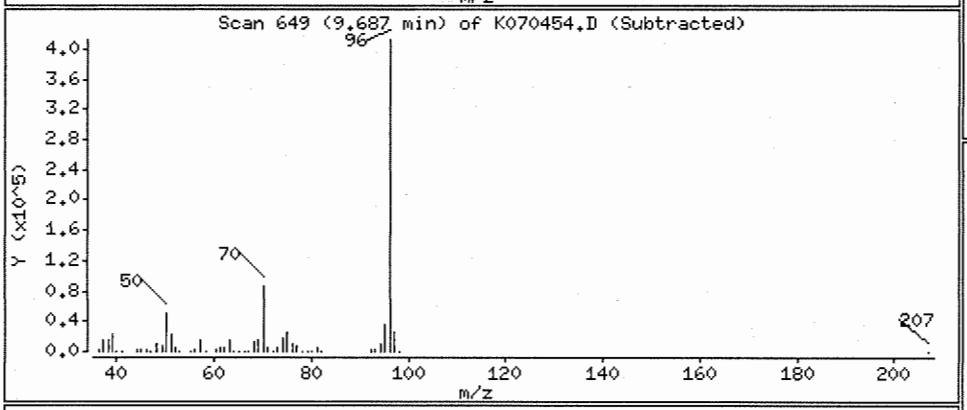
Column diameter: 0.32

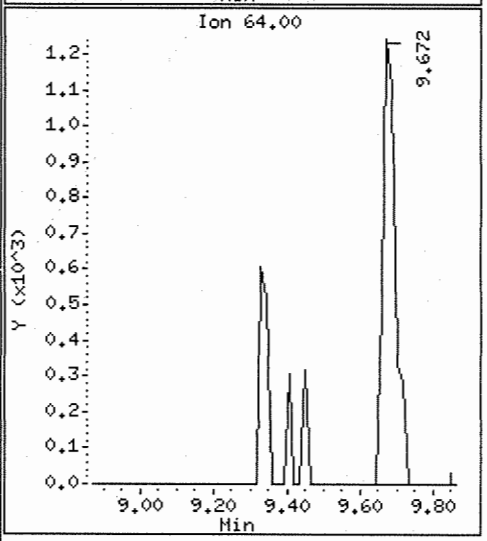
44 1,2-Dichloroethane

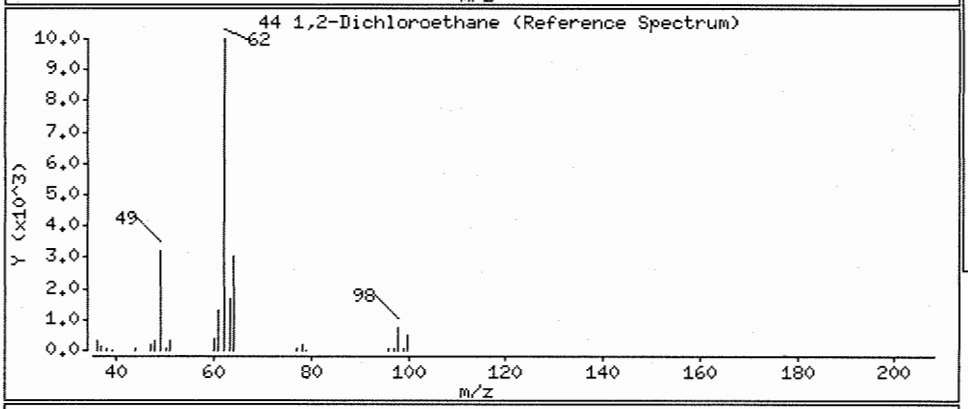
Concentration: 19.4 ug/L

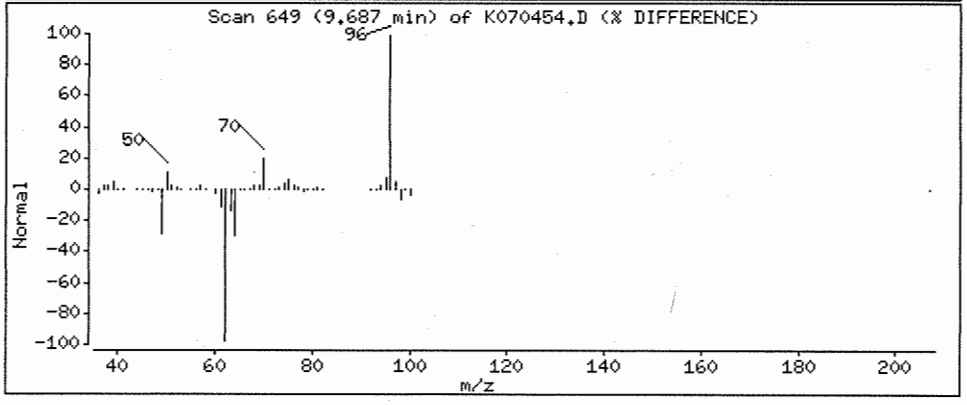












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

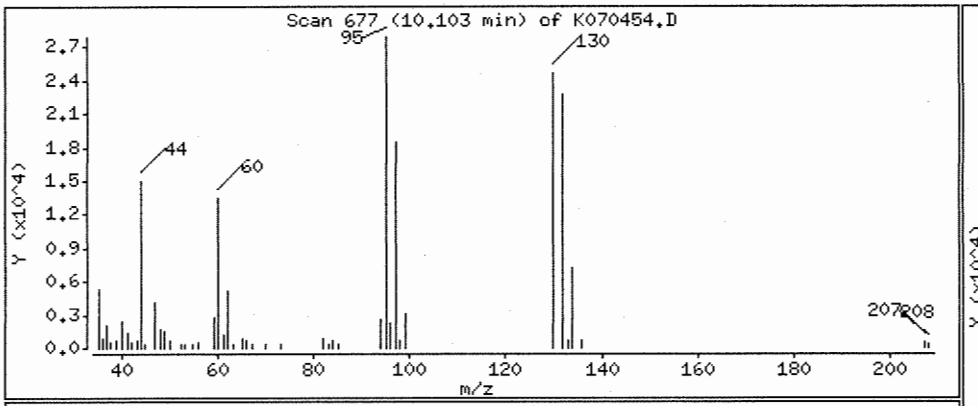
Operator: X

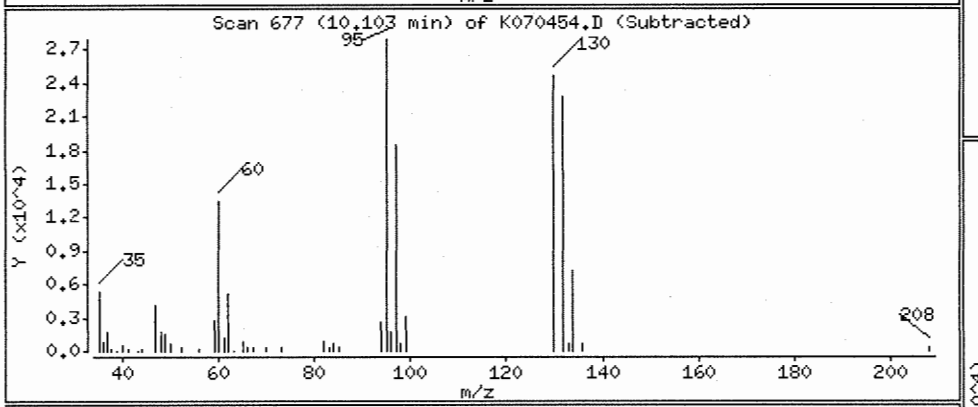
Column phase: DB-624

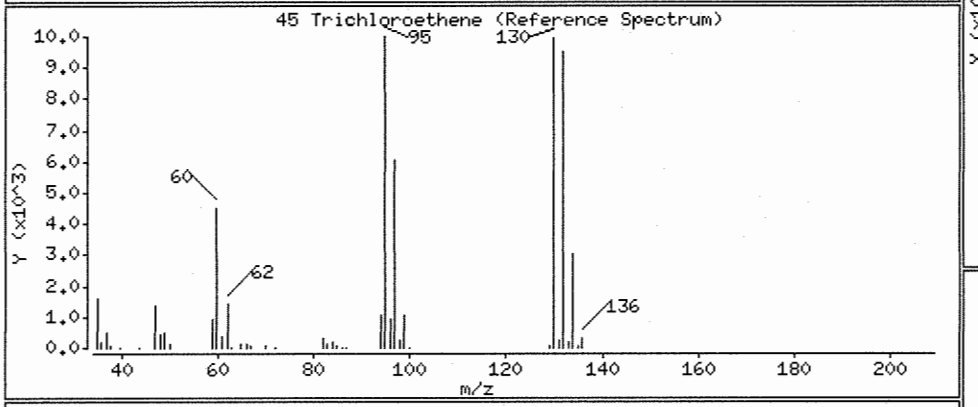
Column diameter: 0.32

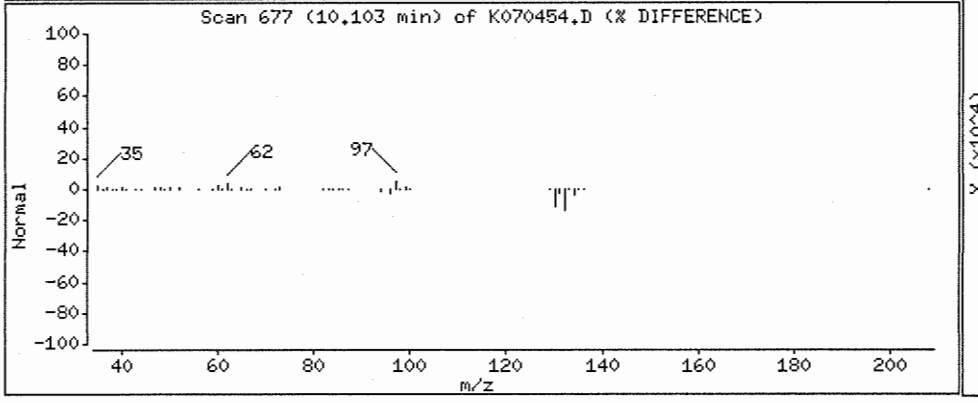
45 Trichloroethene

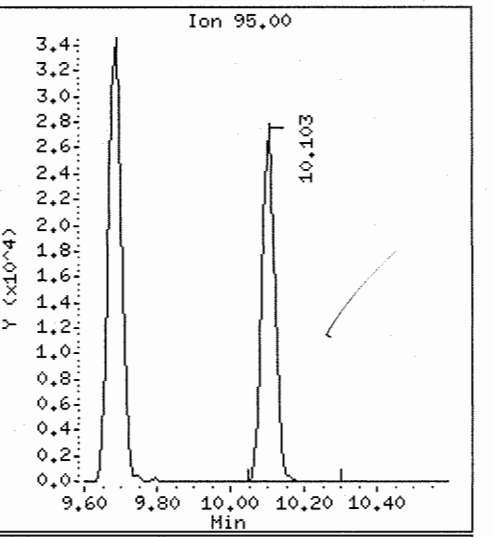
Concentration: 104 ug/L

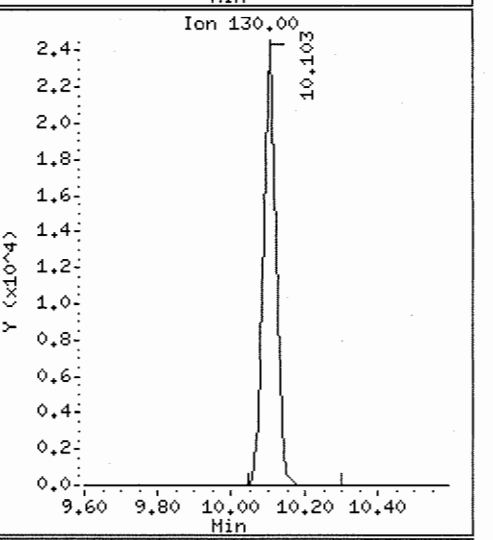


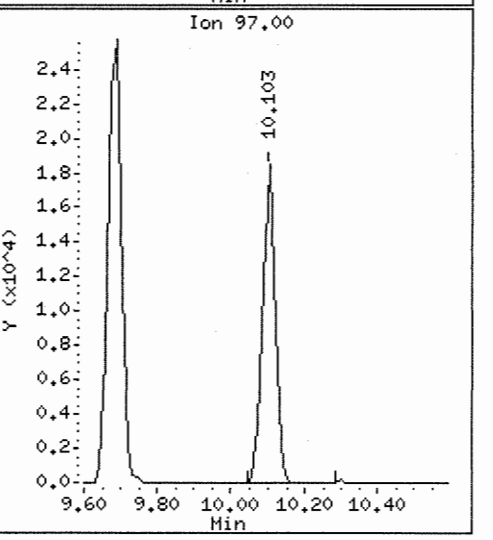












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070454.D

Date : 19-JAN-2007 09:22

Client ID: BLD120-MW-3DL

Instrument: MSK.i

Sample Info: D0700056-005DL

Purge Volume: 10.0

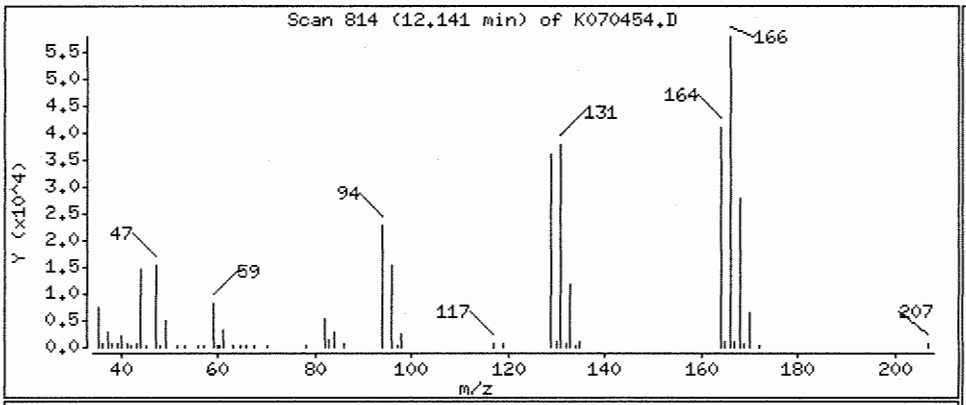
Operator: X

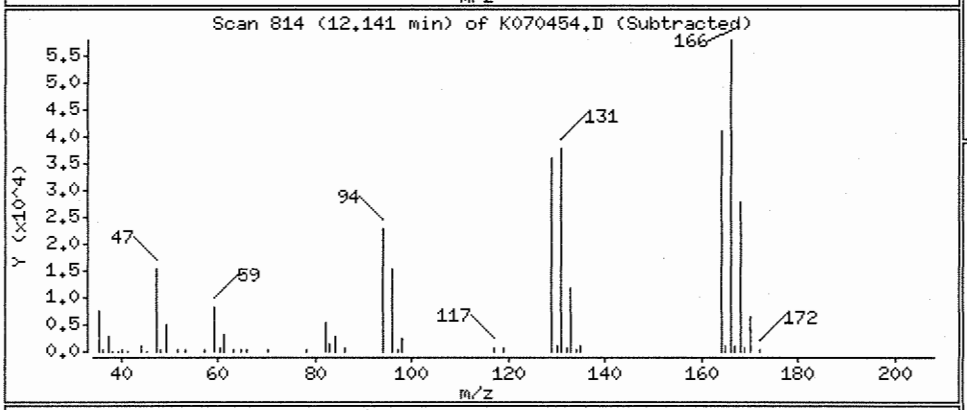
Column phase: DB-624

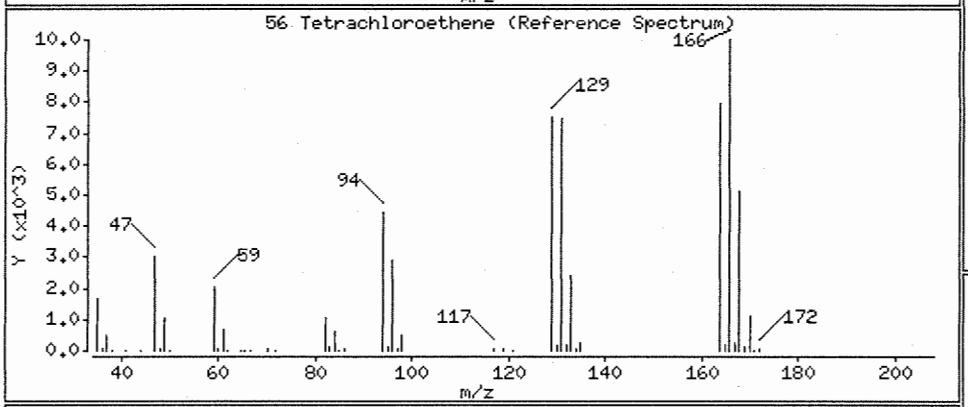
Column diameter: 0.32

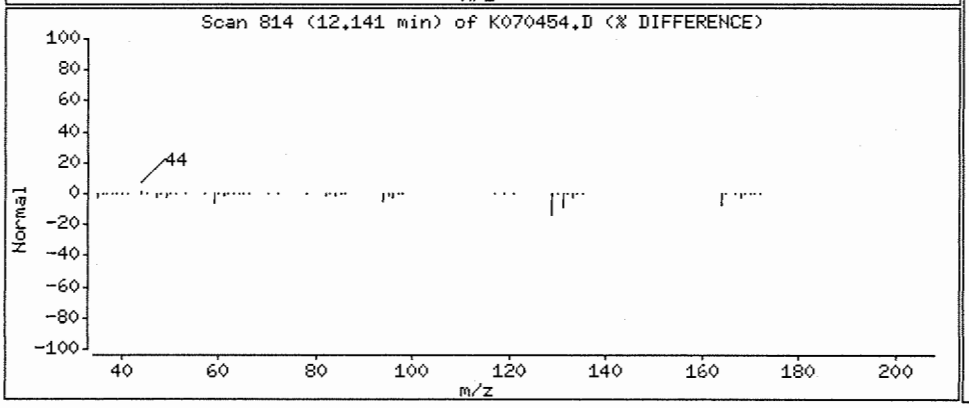
56 Tetrachloroethene

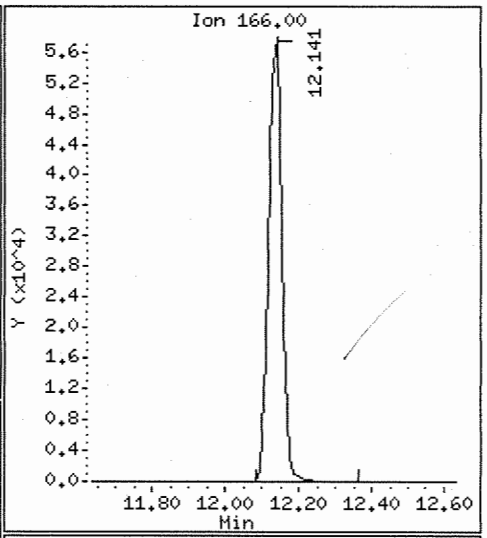
Concentration: 285 ug/L

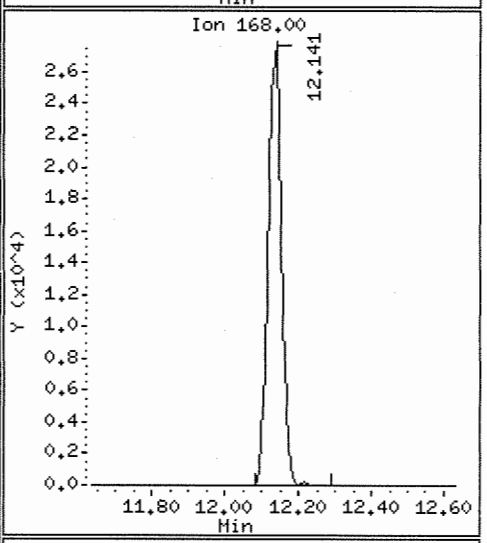


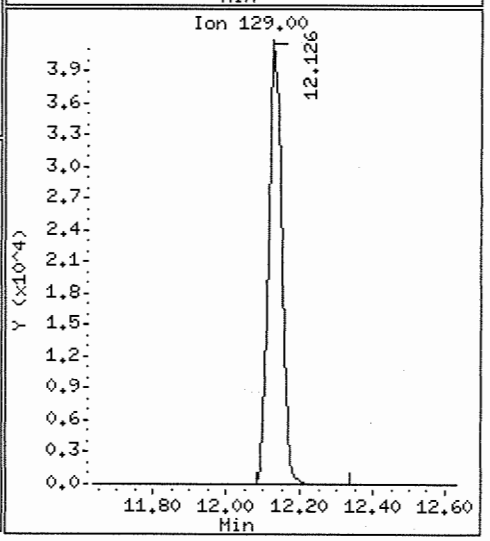












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-4
Lab Code: D0700056-006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**0.66**		0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	**0.98**	J	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-4
Lab Code: D0700056-006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	112	79-135	01/19/2007	
4-Bromofluorobenzene - SS	100	82-124	01/19/2007	
Dibromofluoromethane - SS	103	84-127	01/19/2007	
Toluene-d8 - SS	100	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070437.D
Lab Smp Id: D0700056-006 Client Smp ID: BLD120-MW-4
Inj Date : 19-JAN-2007 01:52
Operator : X Inst ID: MSK.i
Smp Info : D0700056-006
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.673	9.673	(1.000)	1280736	10.0000	
* 2	Chlorobenzene-d5	117	13.020	13.020	(1.000)	832149	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.608	15.593	(1.000)	346045	10.0000	
$ 4	Dibromofluoromethane	113	8.870	8.870	(0.917)	425242	10.3022	10.3
$ 5	1,2-Dichloroethane-d4	65	9.287	9.287	(0.960)	426249	11.2250	11.2
$ 6	Toluene-d8	98	11.429	11.414	(0.878)	1076466	9.97101	9.97
$ 7	Bromofluorobenzene	174	14.284	14.284	(0.915)	312920	9.99443	9.99
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.646	4.646	(0.480)	934	0.65313	0.653(aQ)
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.335	8.335	(0.862)	27817	0.66085	0.661(Q)
35	2-Butanone	43	8.305	8.290	(0.859)	14751	0.98410	0.984(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.673	9.361	(1.000)	18565	0.38802	0.388(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070437.D

Date : 19-JAN-2007 01:52

Client ID: BLD120-MW-4

Instrument: MSK.i

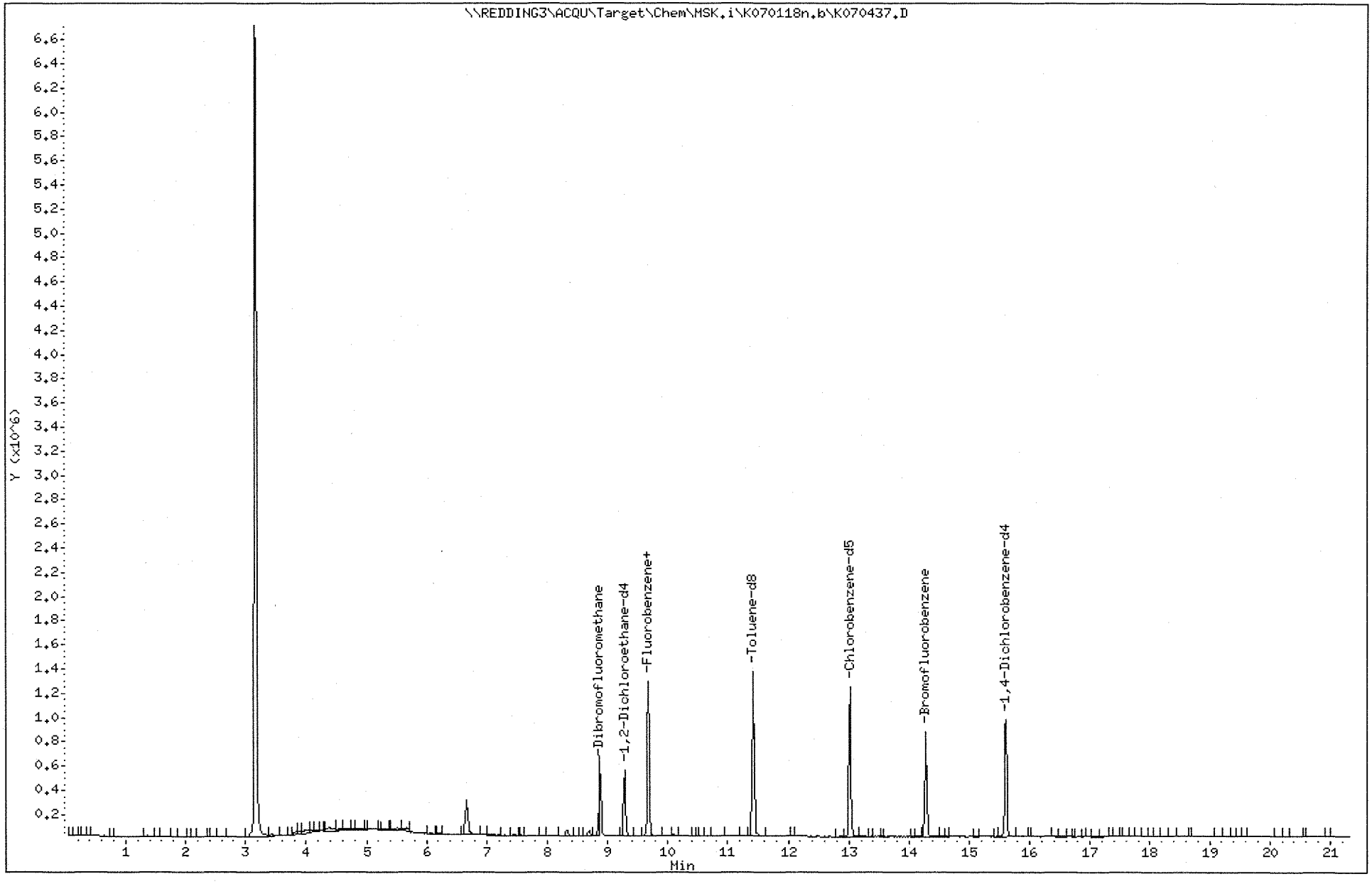
Sample Info: D0700056-006

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



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Date : 19-JAN-2007 01:52

Client ID: BLD120-MW-4

Instrument: MSK.i

Sample Info: D0700056-006

Purge Volume: 10.0

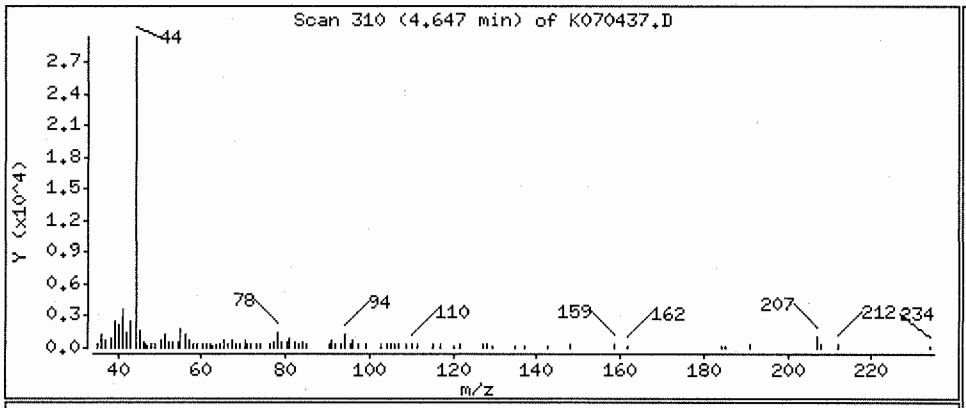
Operator: X

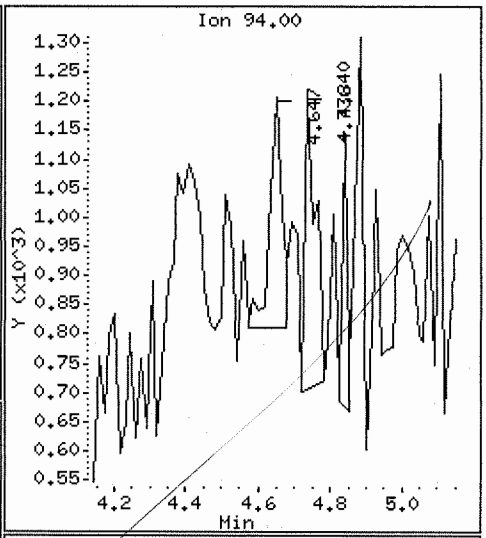
Column phase: DB-624

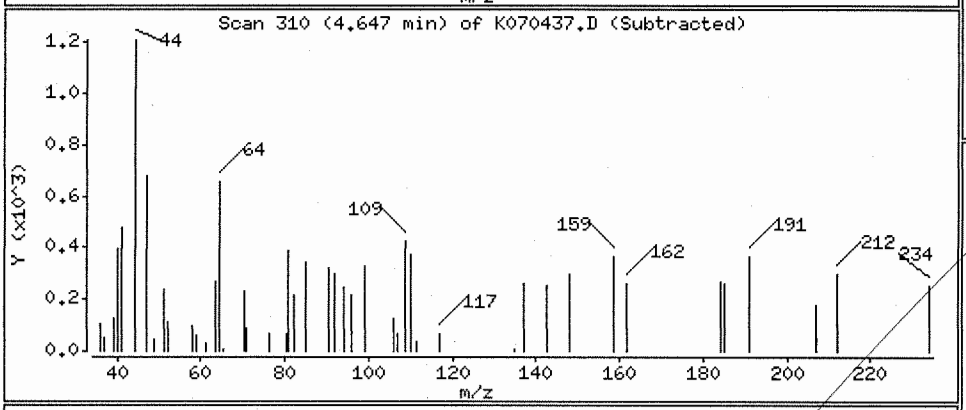
Column diameter: 0.32

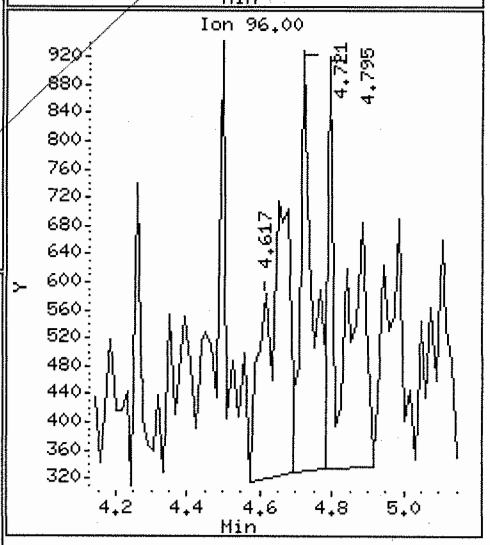
12 Bromomethane

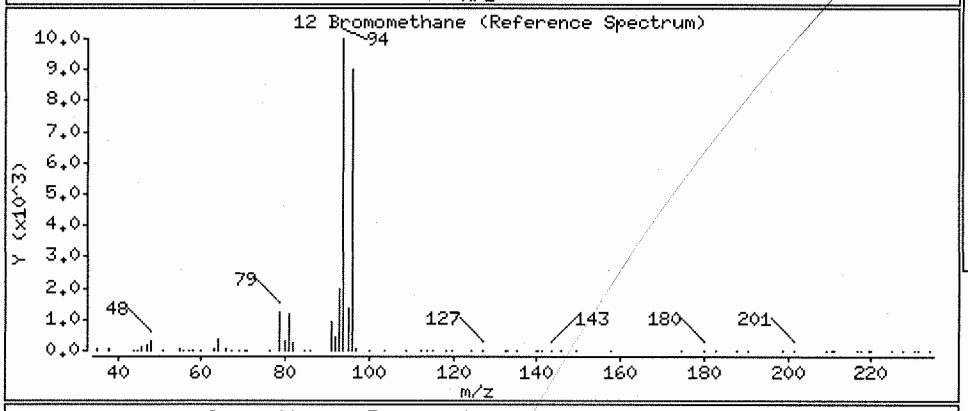
Concentration: 0.653 ug/L

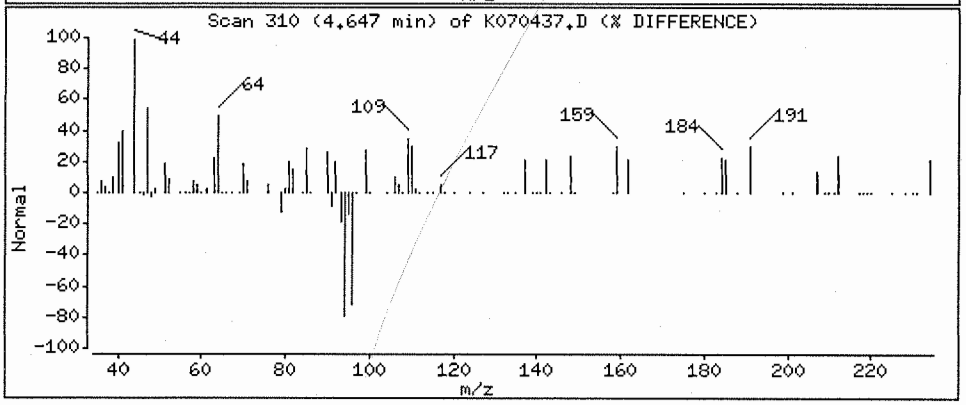












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Date : 19-JAN-2007 01:52

Client ID: BLD120-MW-4

Instrument: MSK.i

Sample Info: D0700056-006

Purge Volume: 10.0

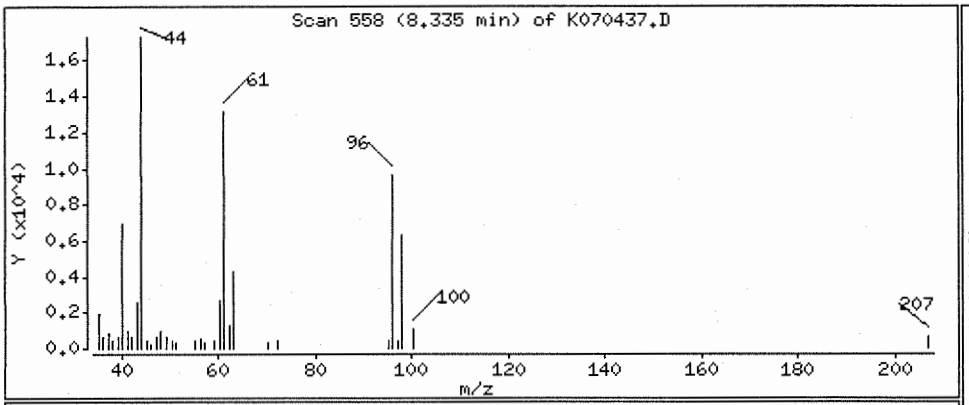
Operator: X

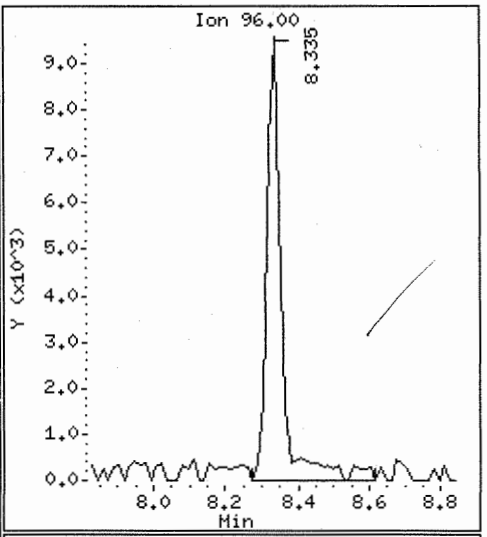
Column phase: DB-624

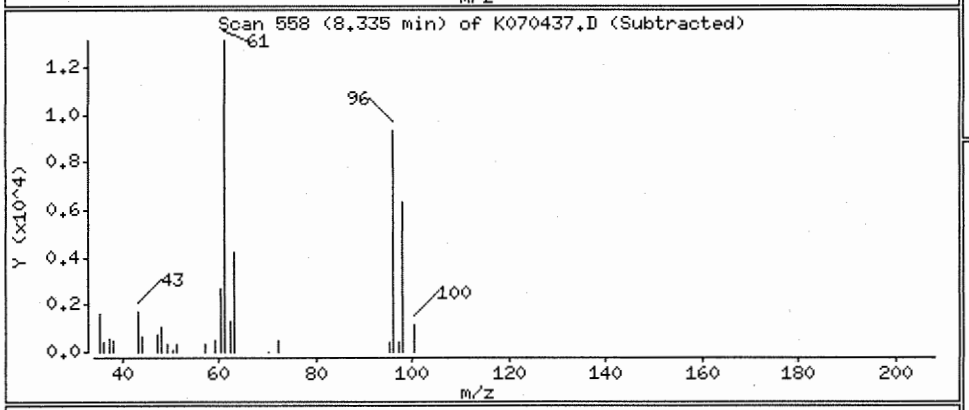
Column diameter: 0.32

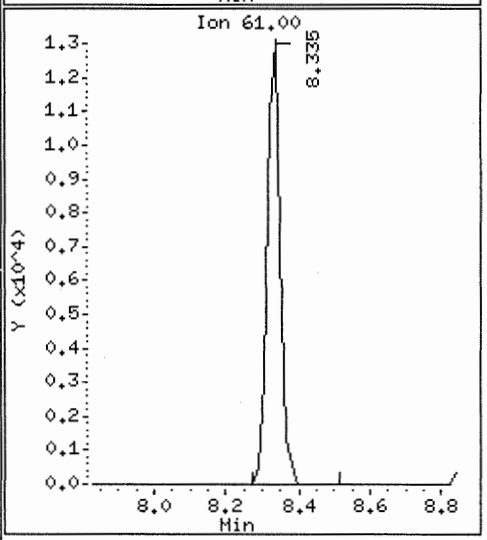
33 cis-1,2-Dichloroethene

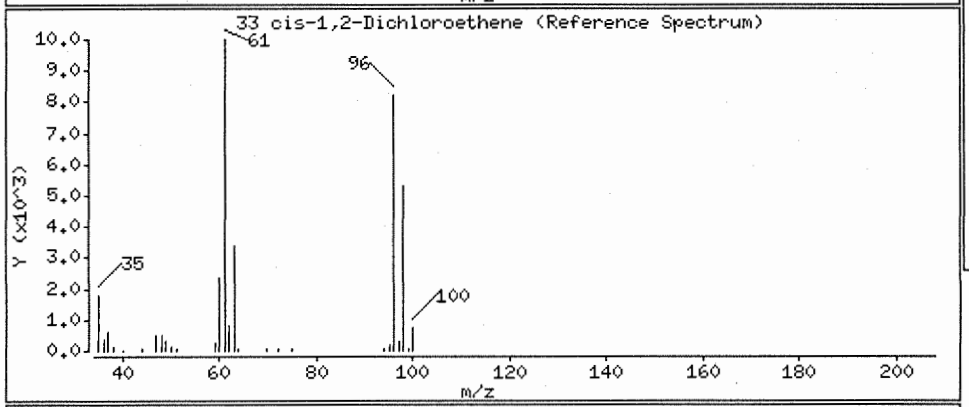
Concentration: 0.661 ug/L

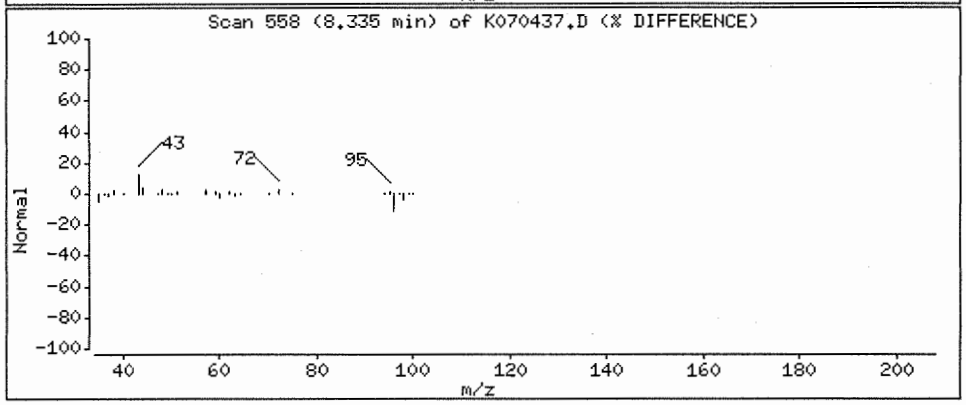












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070437.D

Date : 19-JAN-2007 01:52

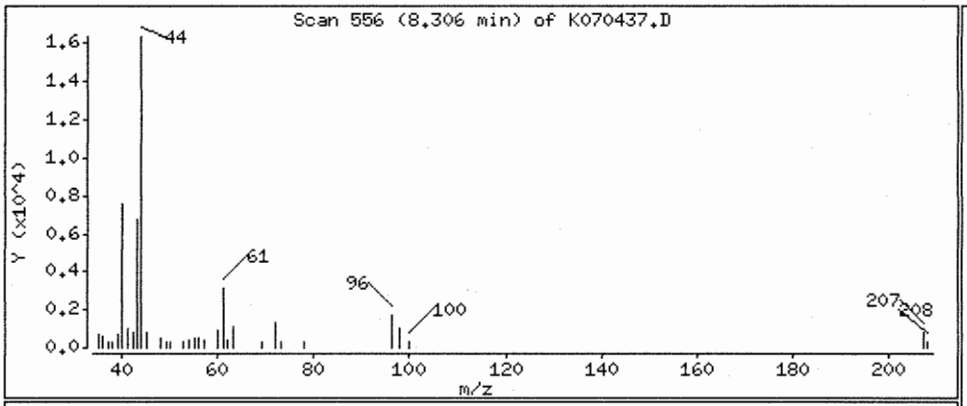
Client ID: BLD120-MW-4 Instrument: MSK.i

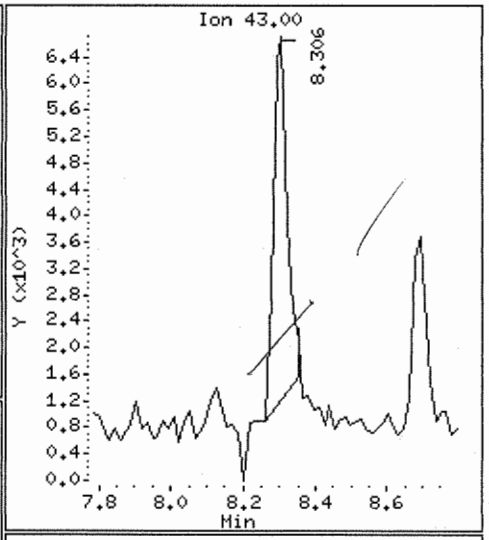
Sample Info: D0700056-006

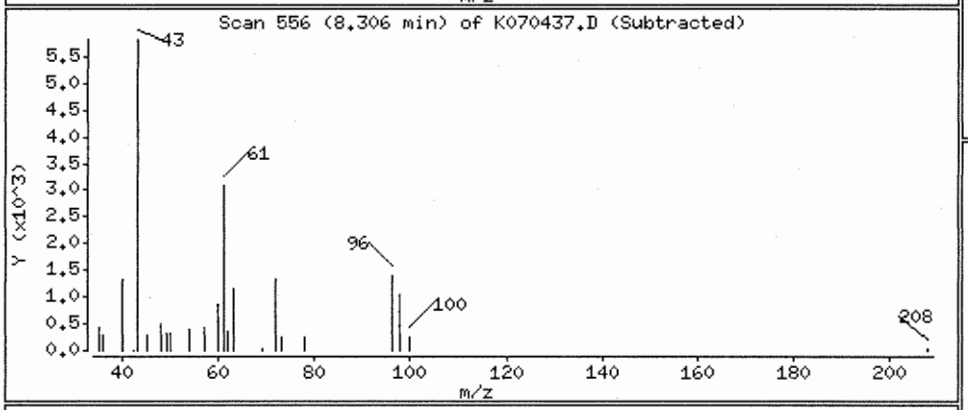
Purge Volume: 10.0 Operator: X

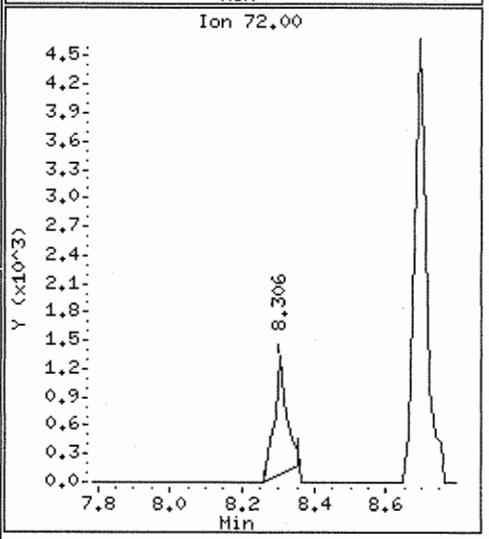
Column phase: DB-624 Column diameter: 0.32

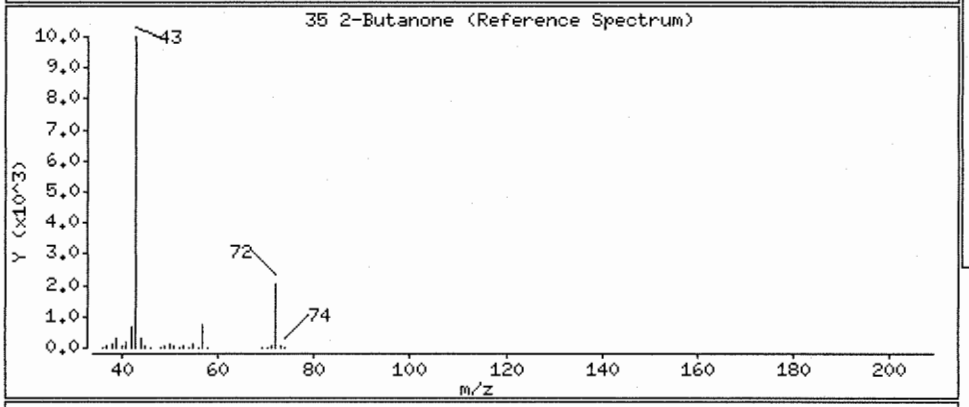
35 2-Butanone Concentration: 0.984 ug/L

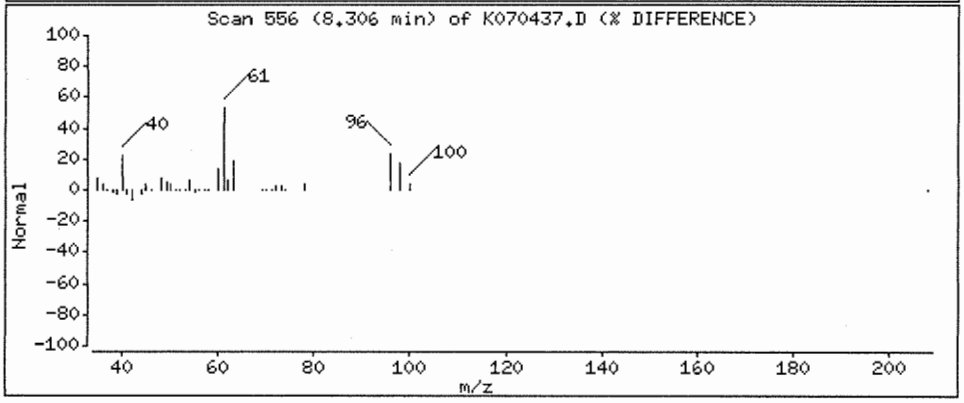












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070437.D

Date : 19-JAN-2007 01:52

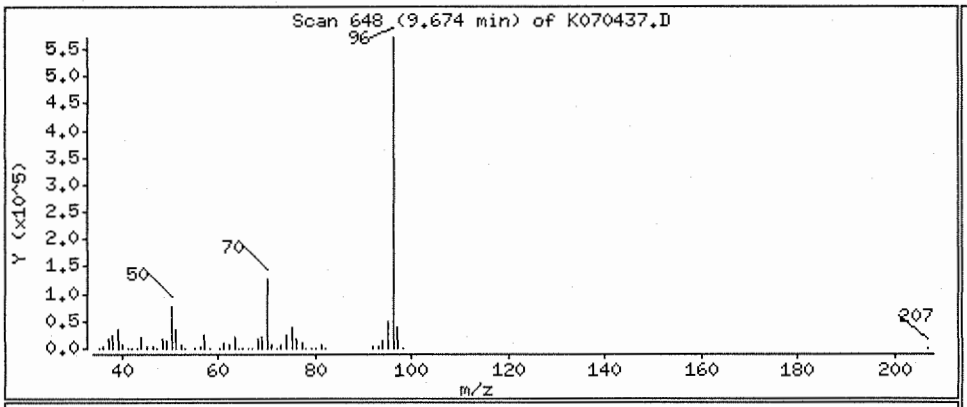
Client ID: BLD120-MW-4 Instrument: MSK.i

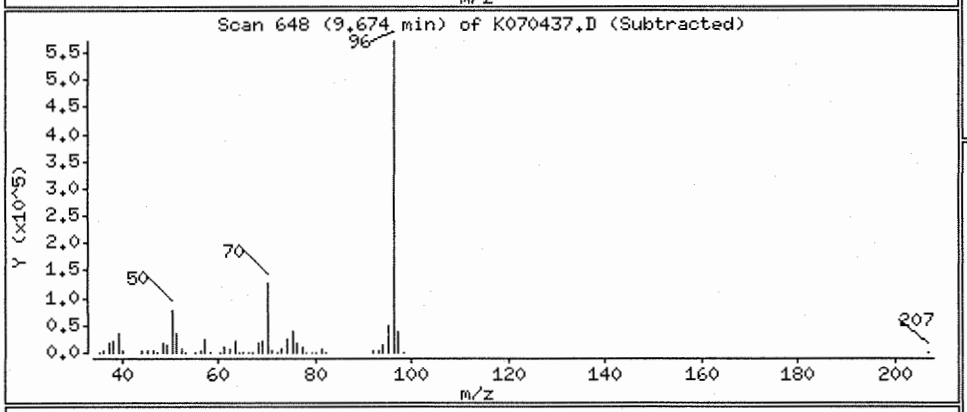
Sample Info: D0700056-006

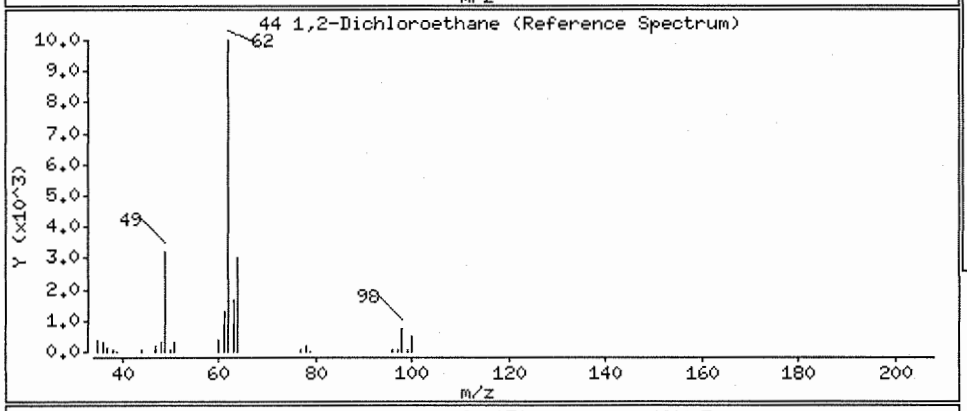
Purge Volume: 10.0 Operator: X

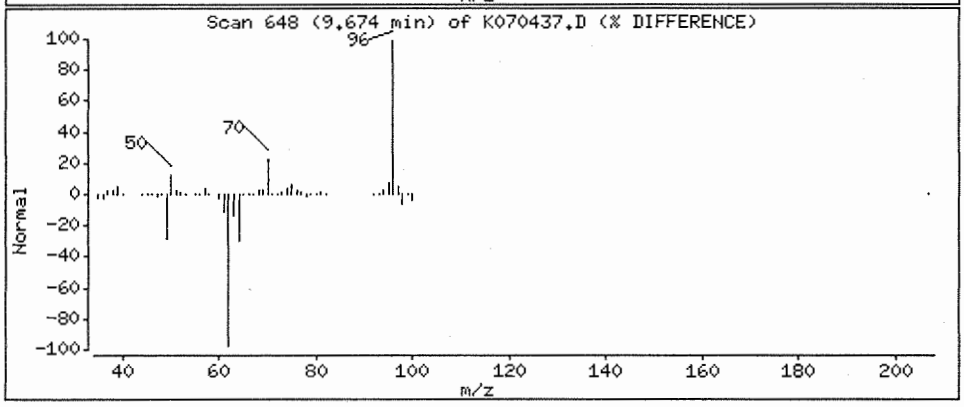
Column phase: DB-624 Column diameter: 0.32

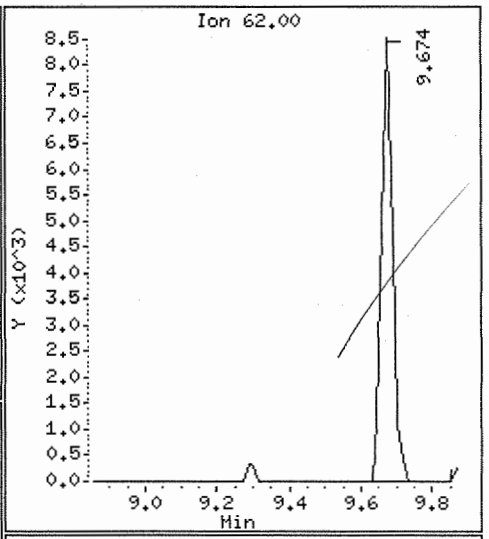
44 1,2-Dichloroethane Concentration: 0.388 ug/L

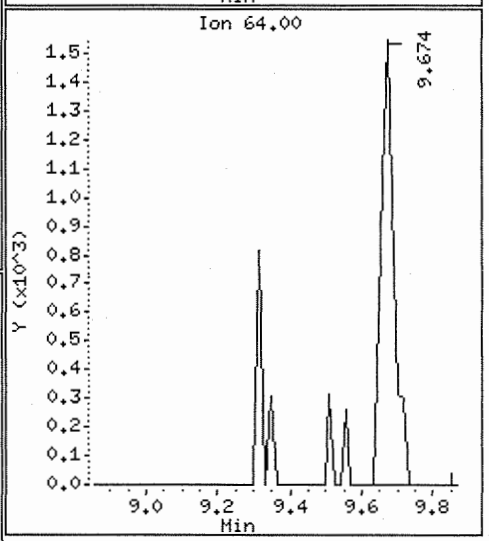












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-5
Lab Code: D0700056-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	**0.31**	J	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**1.9**		0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	**1.0**	J	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	**0.21**	J	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD120-MW-5
Lab Code: D0700056-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	115	79-135	01/19/2007	
4-Bromofluorobenzene - SS	103	82-124	01/19/2007	
Dibromofluoromethane - SS	106	84-127	01/19/2007	
Toluene-d8 - SS	103	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070438.D
Lab Smp Id: D0700056-007 Client Smp ID: BLD120-MW-5
Inj Date : 19-JAN-2007 02:18
Operator : X Inst ID: MSK.i
Smp Info : D0700056-007
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8/4/9/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.667	9.673	(1.000)	1225338	10.0000	
* 2	Chlorobenzene-d5	117	13.014	13.020	(1.000)	818062	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.602	15.593	(1.000)	337131	10.0000	
$ 4	Dibromofluoromethane	113	8.879	8.870	(0.918)	417262	10.5659	10.6
$ 5	1,2-Dichloroethane-d4	65	9.281	9.287	(0.960)	416222	11.4565	11.4
$ 6	Toluene-d8	98	11.423	11.414	(0.878)	1088637	10.2574	10.2
$ 7	Bromofluorobenzene	174	14.278	14.284	(0.915)	313142	10.2660	10.3
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.476	4.646	(0.463)	631	0.64102	0.641(aQ)
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	7.064	7.070	(0.731)	24937	0.31156	0.312(aQ)
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

12/19/07

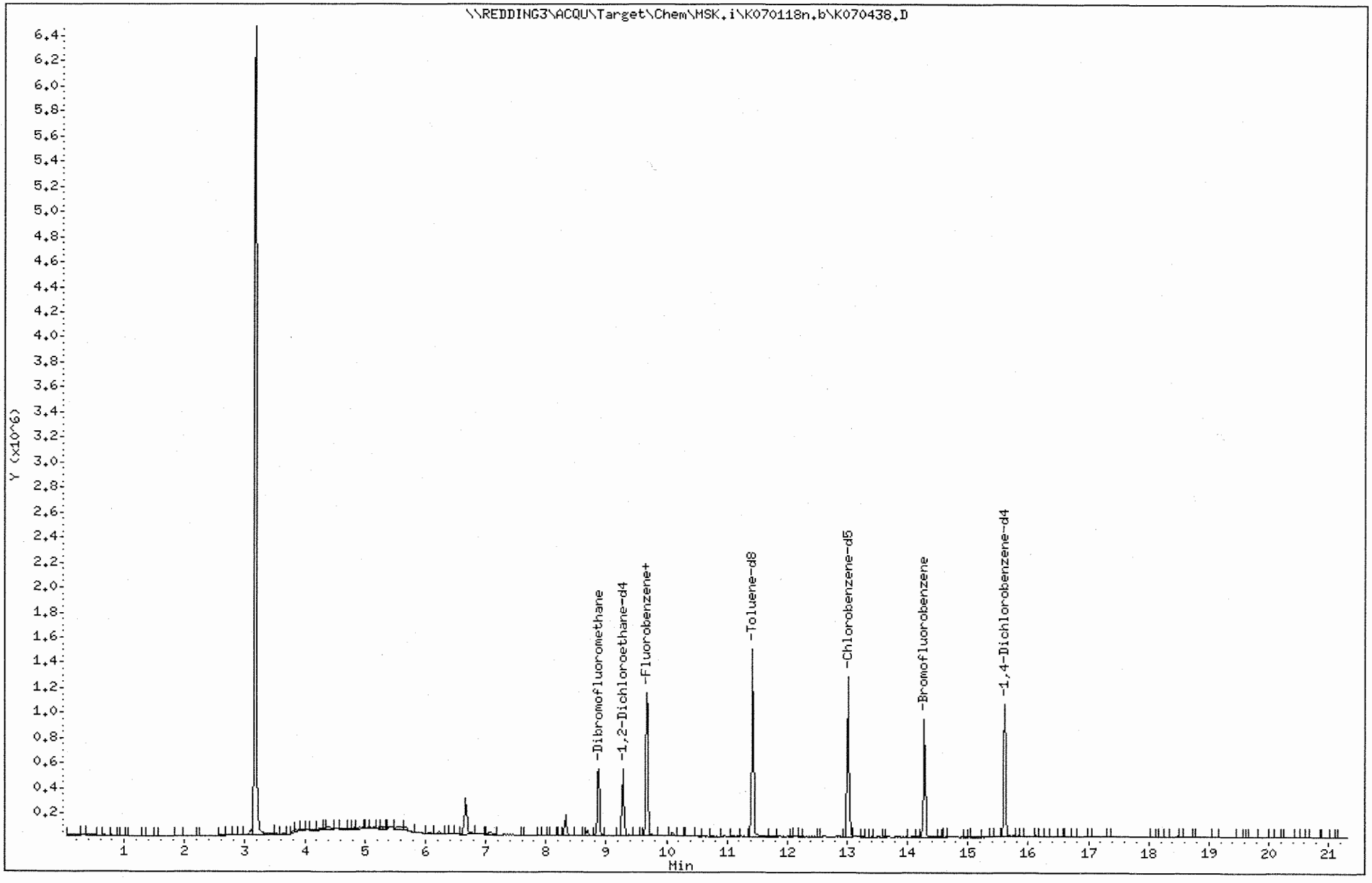
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.329	8.335	(0.862)	76594	1.90192	1.90
35	2-Butanone	43	8.299	8.290	(0.858)	14649	1.02148	1.02(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.667	9.361	(1.000)	17567	0.38376	0.384(a)
45	Trichloroethene	95	10.099	10.090	(1.045)	7940	0.20793	0.208(a)
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070438.D
Date : 19-JAN-2007 02:18
Client ID: BLD120-MW-5
Sample Info: D0700056-007
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070438.D

Date : 19-JAN-2007 02:18

Client ID: BLD120-MW-5

Instrument: MSK.i

Sample Info: D0700056-007

Purge Volume: 10.0

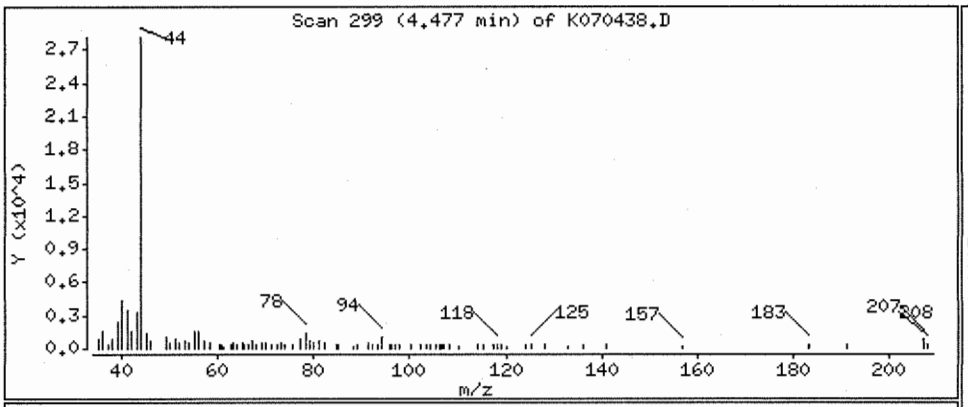
Operator: X

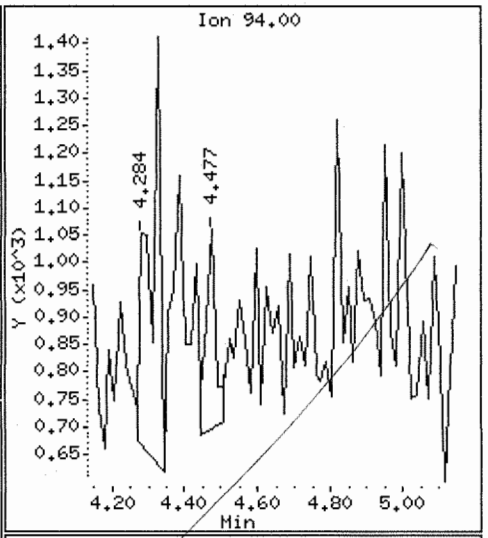
Column phase: DB-624

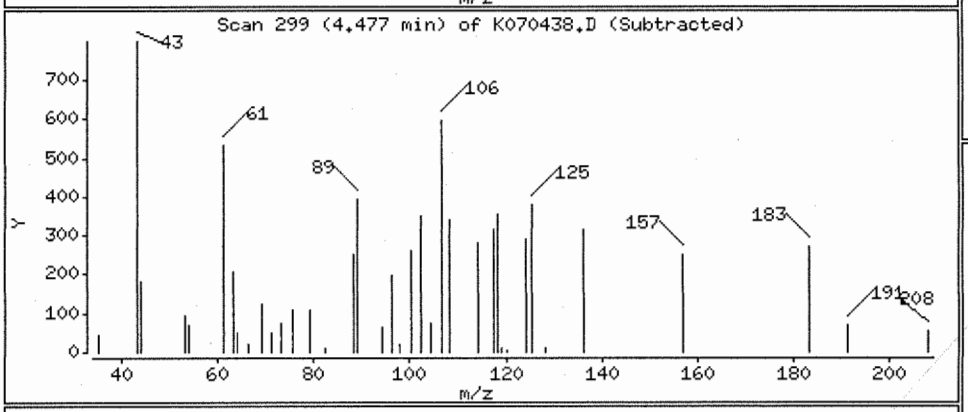
Column diameter: 0.32

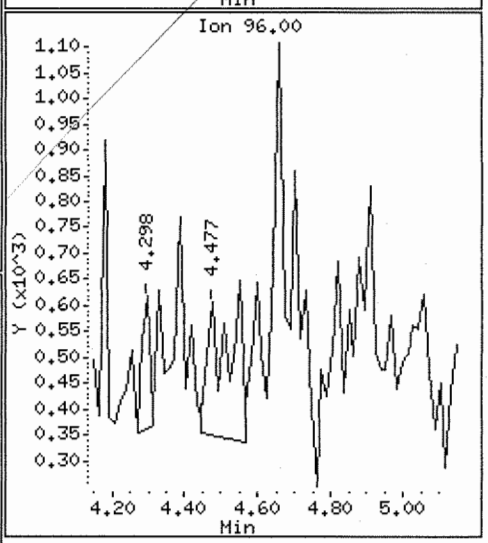
12 Bromomethane

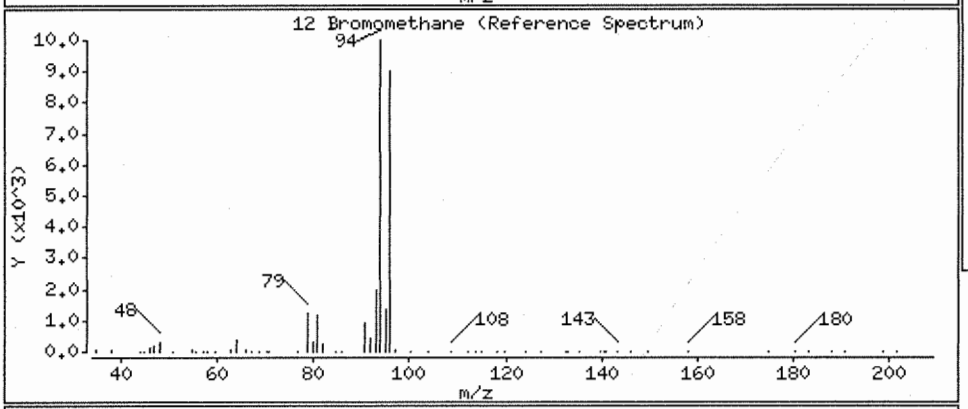
Concentration: 0.641 ug/L

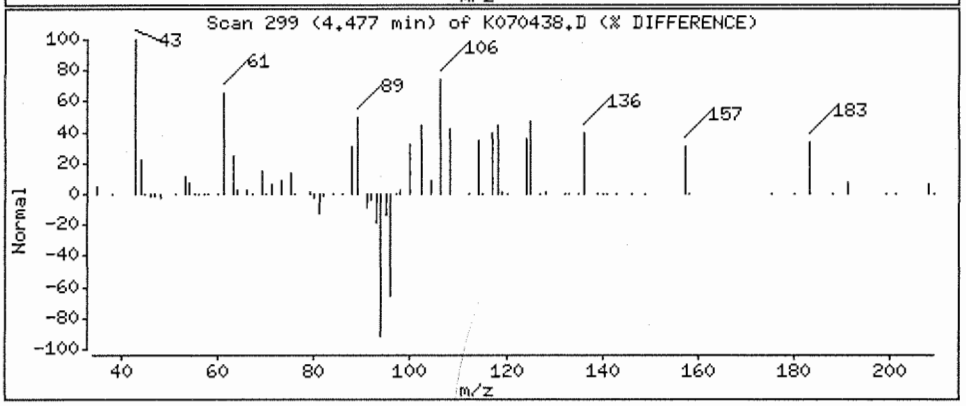












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070438.D

Date : 19-JAN-2007 02:18

Client ID: BLD120-MW-5

Instrument: MSK.i

Sample Info: D0700056-007

Purge Volume: 10.0

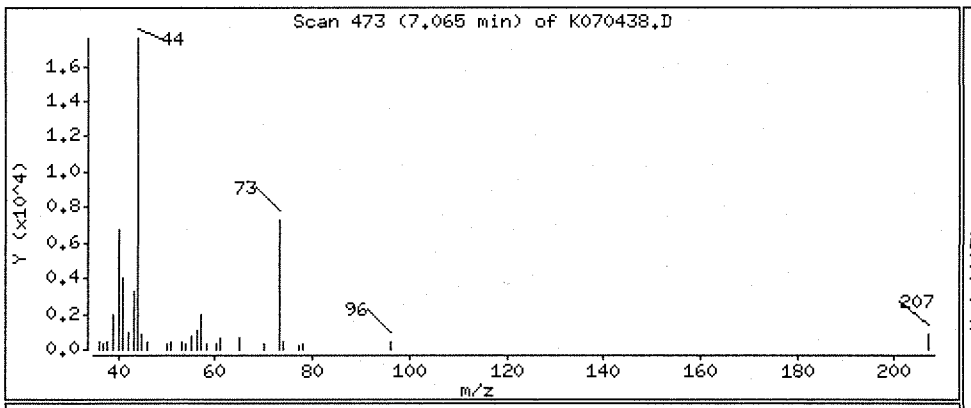
Operator: X

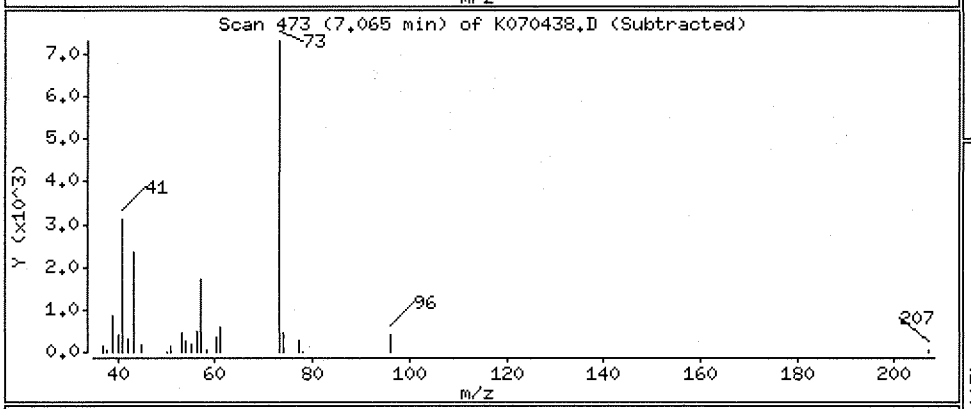
Column phase: DB-624

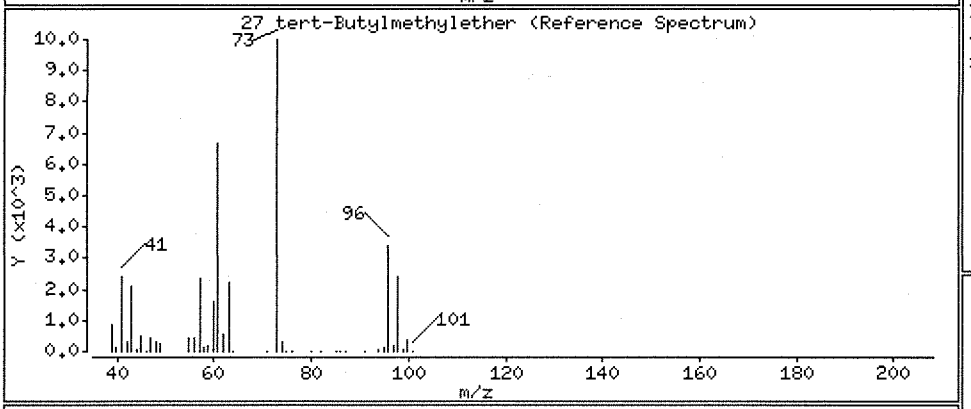
Column diameter: 0.32

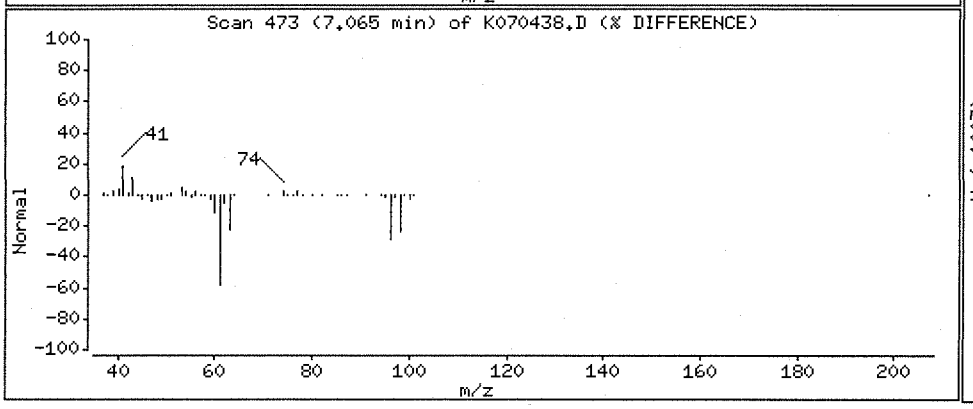
27 tert-Butylmethylether

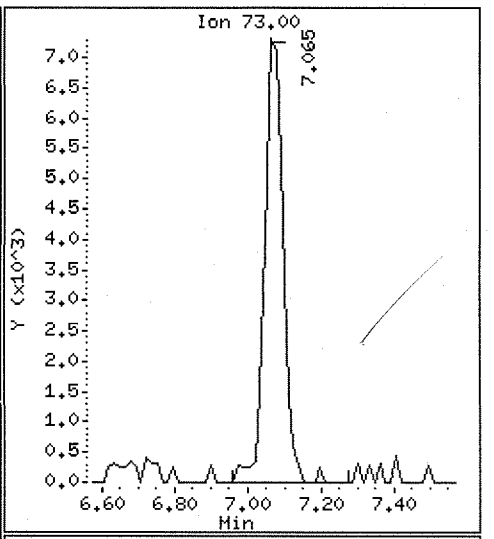
Concentration: 0.312 ug/L

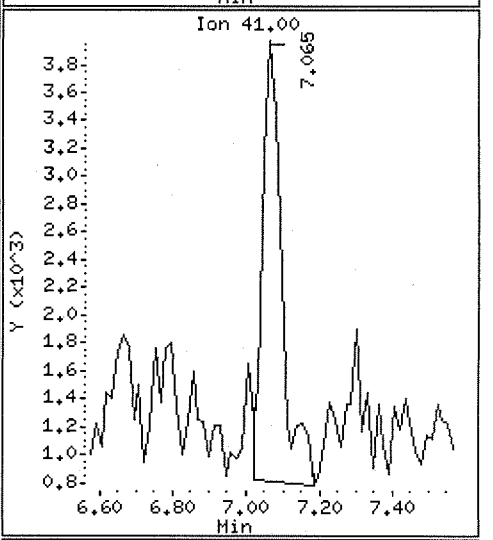


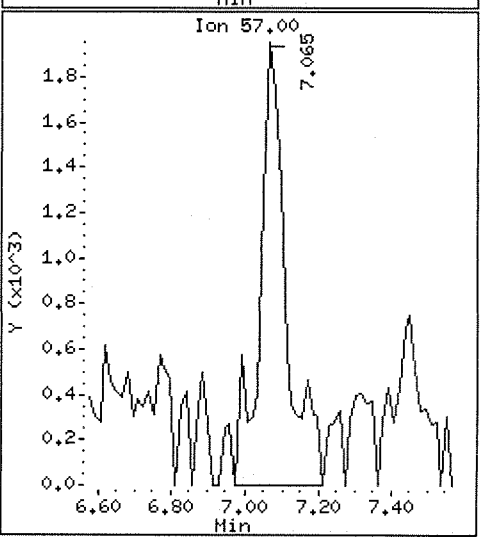












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070438.D

Date : 19-JAN-2007 02:18

Client ID: BLD120-MW-5

Instrument: MSK.i

Sample Info: D0700056-007

Purge Volume: 10.0

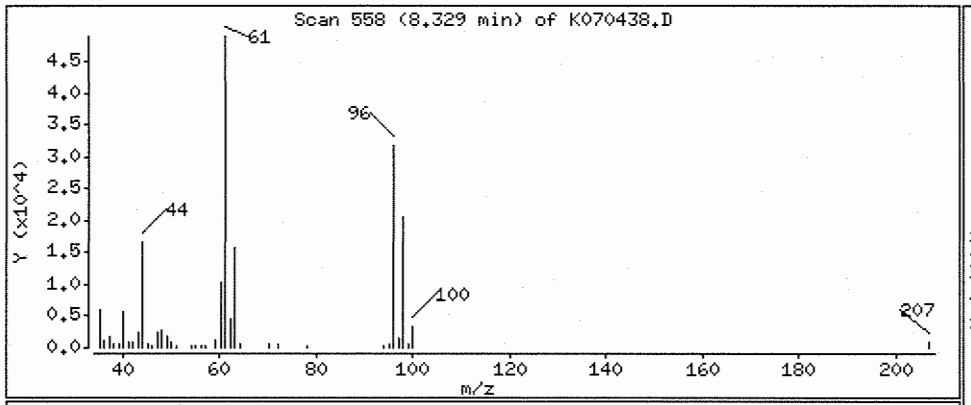
Operator: X

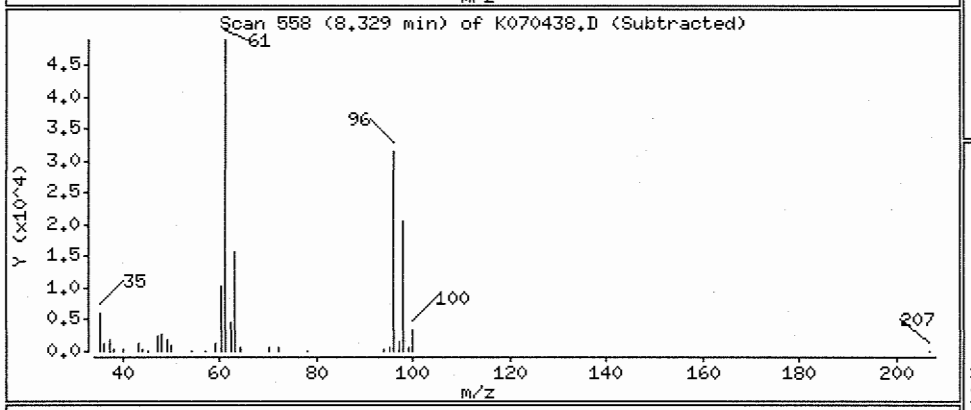
Column phase: DB-624

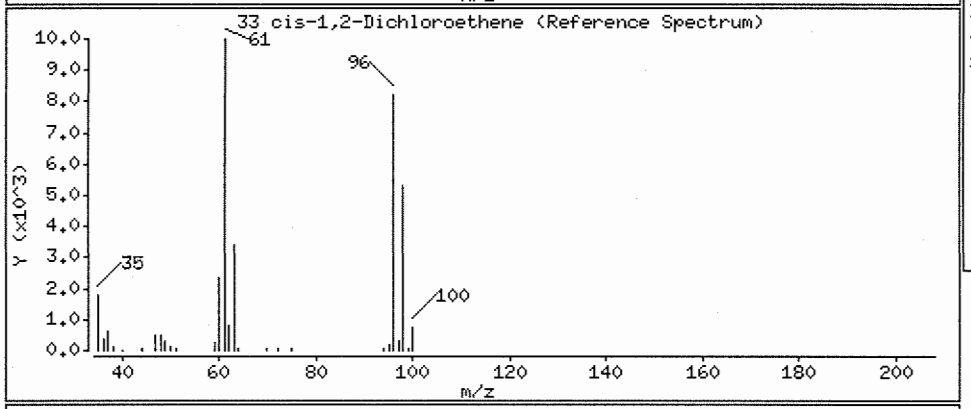
Column diameter: 0.32

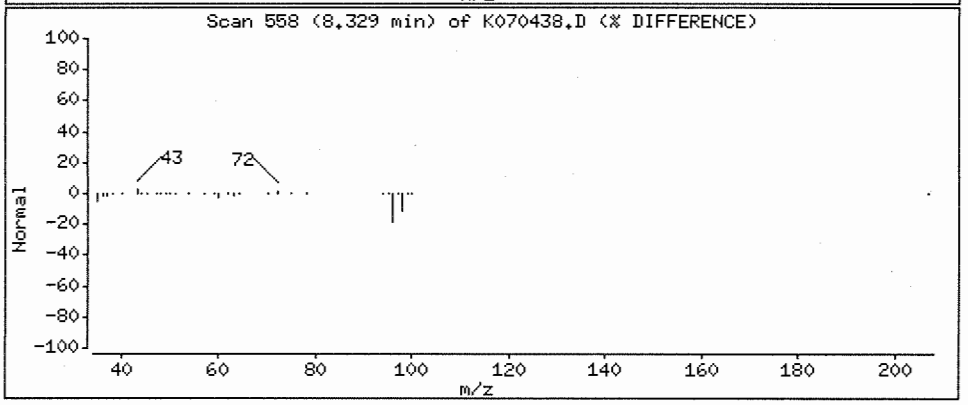
33 cis-1,2-Dichloroethene

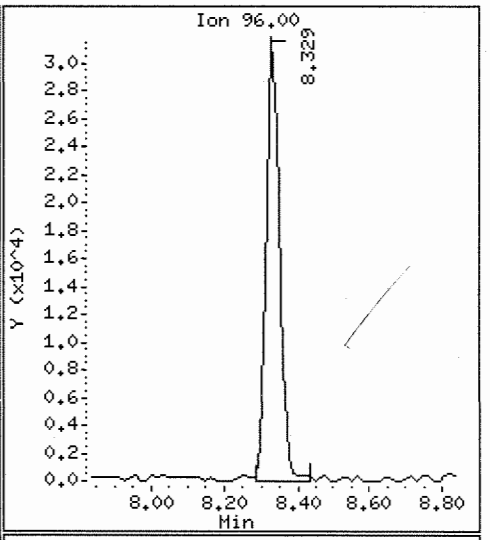
Concentration: 1.90 ug/L

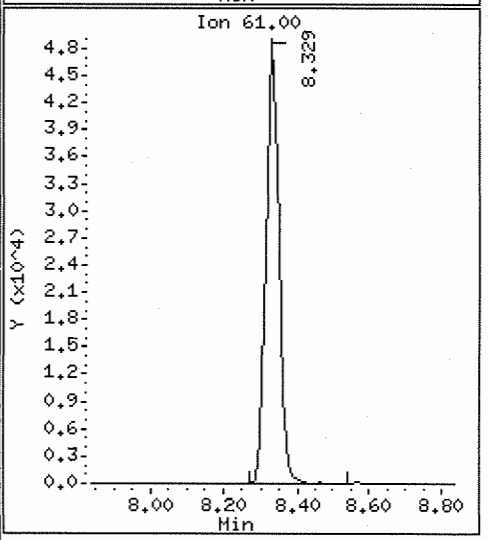












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070438.D

Date : 19-JAN-2007 02:18

Client ID: BLD120-MW-5

Instrument: MSK.i

Sample Info: D0700056-007

Purge Volume: 10.0

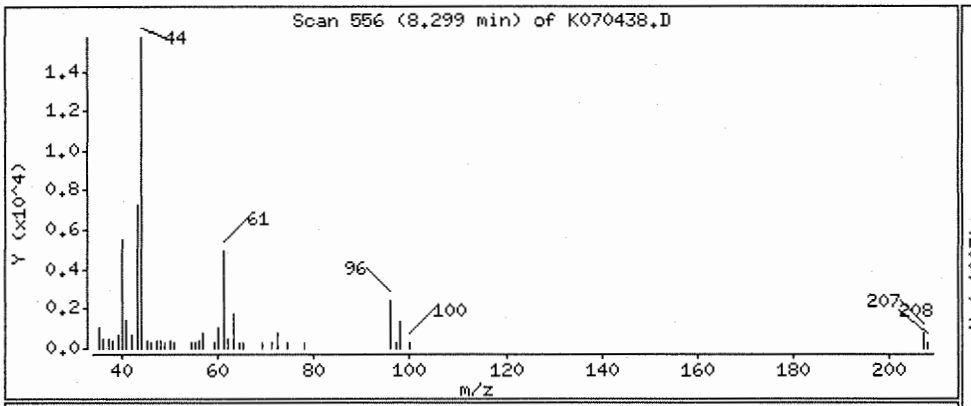
Operator: X

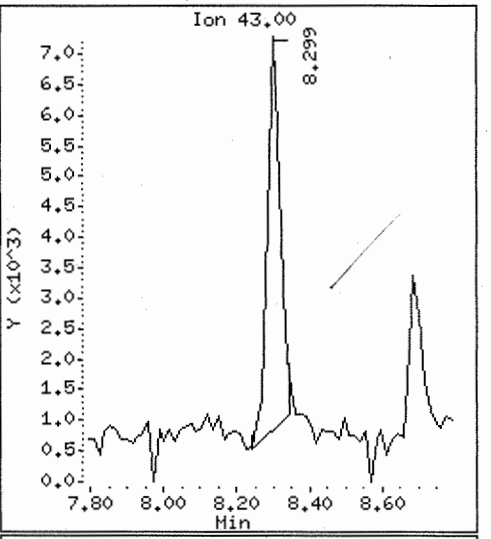
Column phase: DB-624

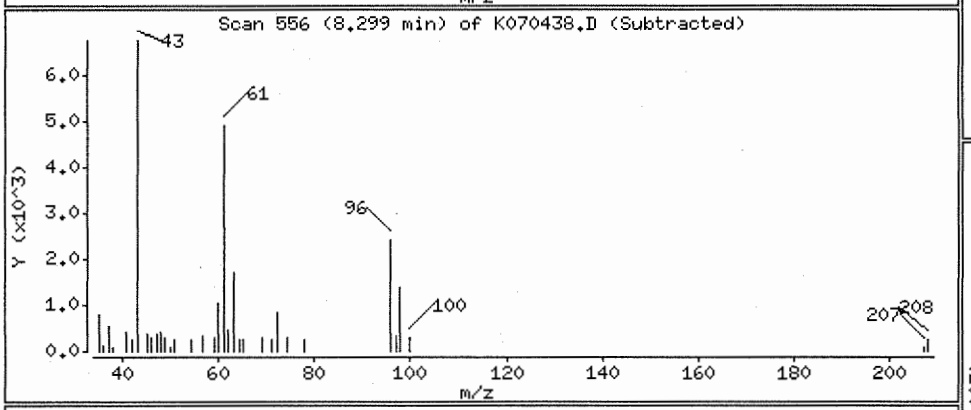
Column diameter: 0.32

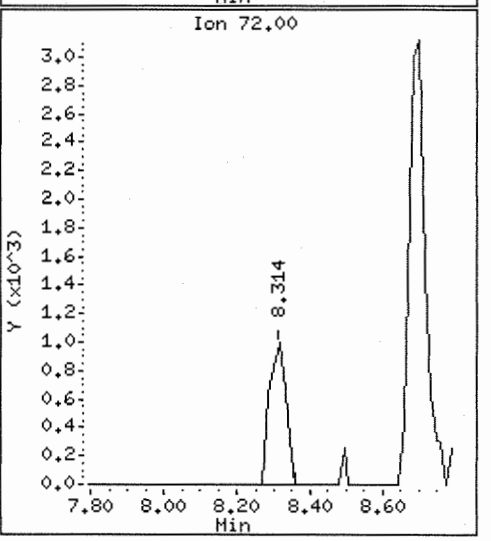
35 2-Butanone

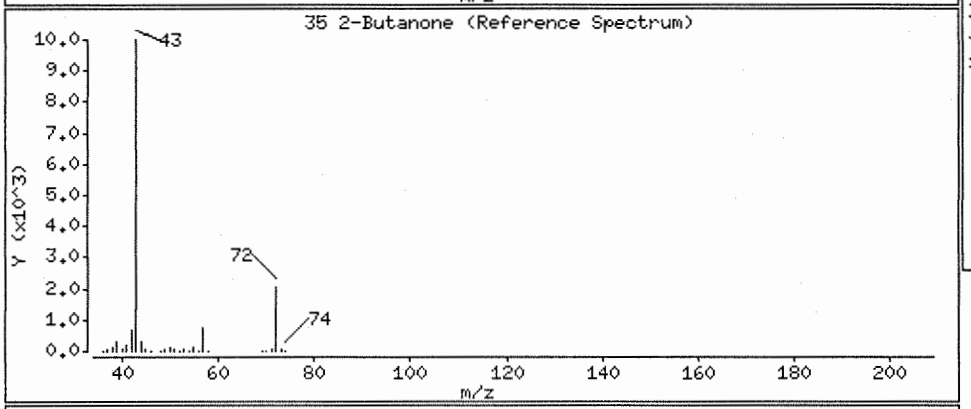
Concentration: 1.02 ug/L

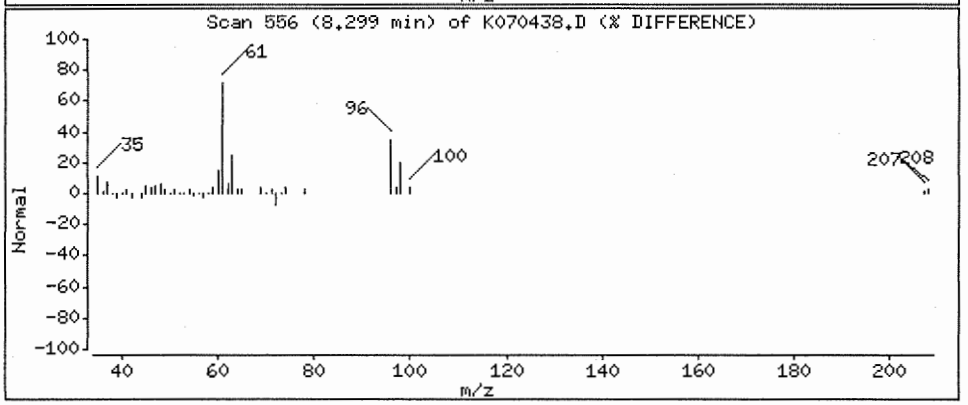












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070438.D

Date : 19-JAN-2007 02:18

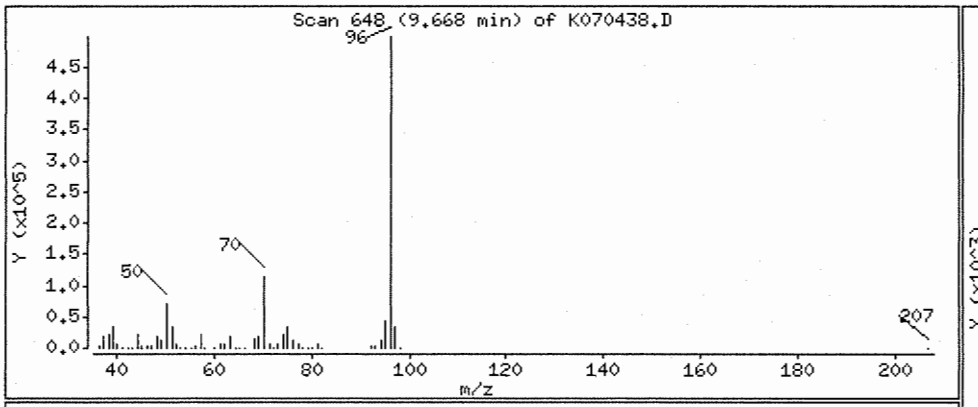
Client ID: BLD120-MW-5 Instrument: MSK.i

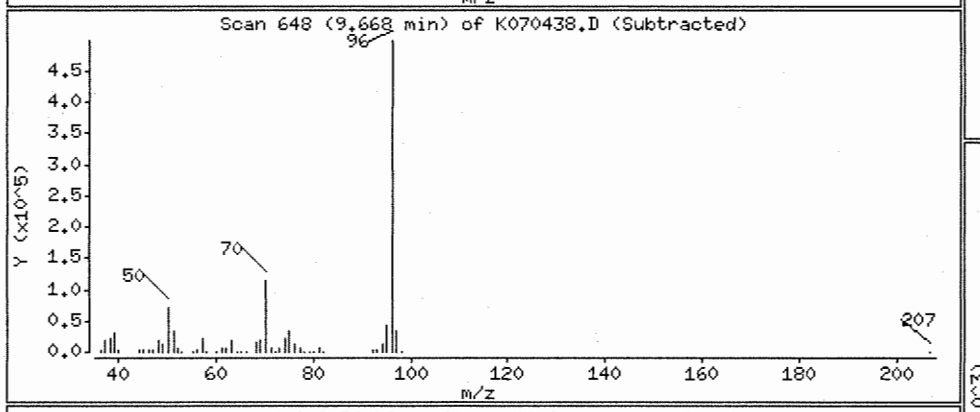
Sample Info: D0700056-007

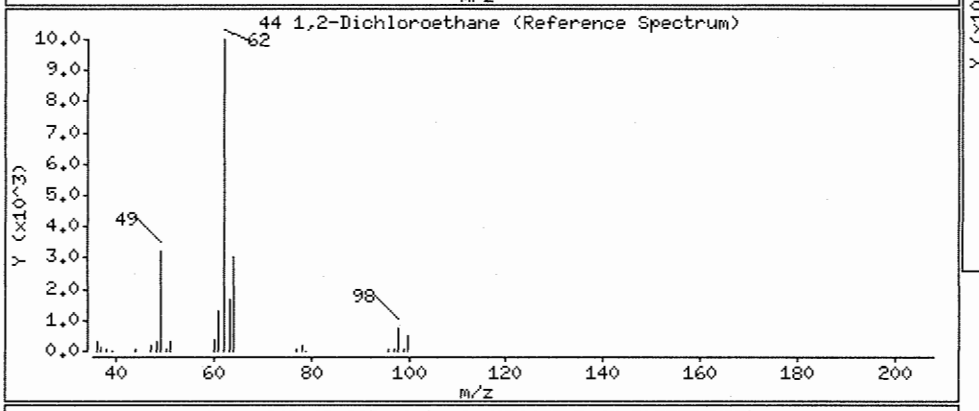
Purge Volume: 10.0 Operator: X

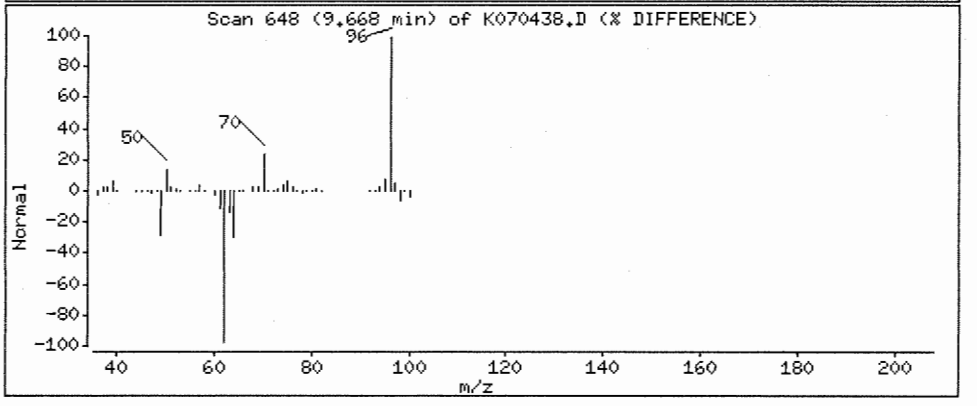
Column phase: DB-624 Column diameter: 0.32

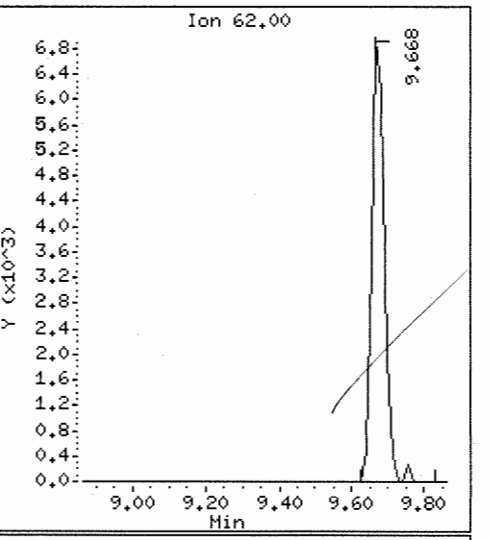
44 1,2-Dichloroethane Concentration: 0.384 ug/L

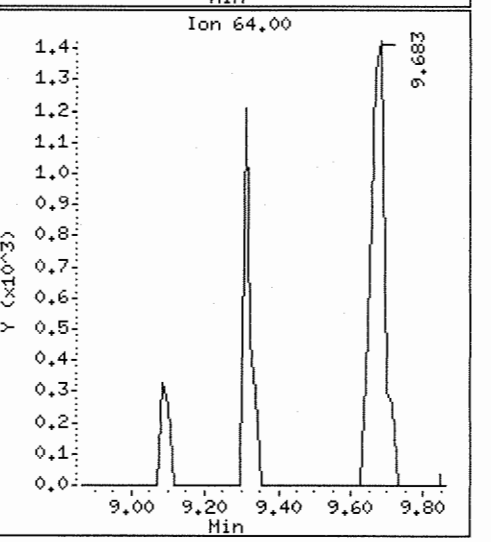












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070438.D

Date : 19-JAN-2007 02:18

Client ID: BLD120-MW-5

Instrument: MSK.i

Sample Info: D0700056-007

Purge Volume: 10.0

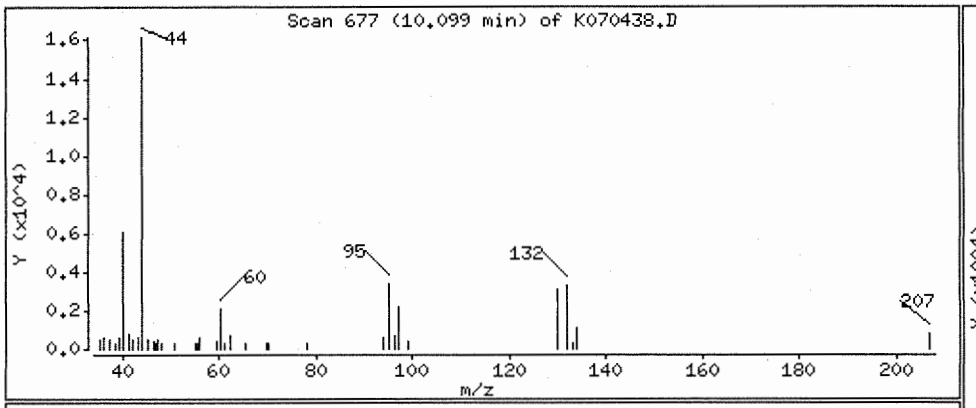
Operator: X

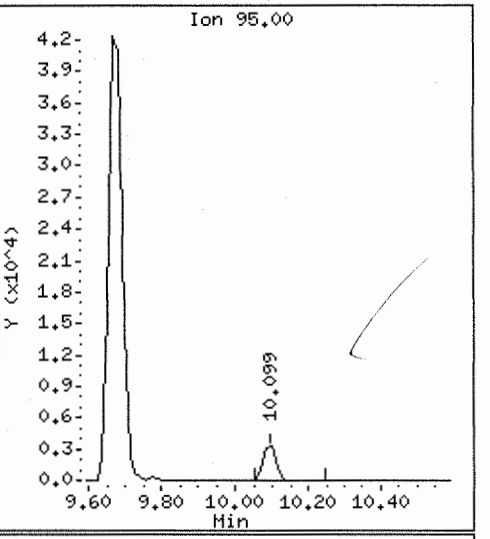
Column phase: DB-624

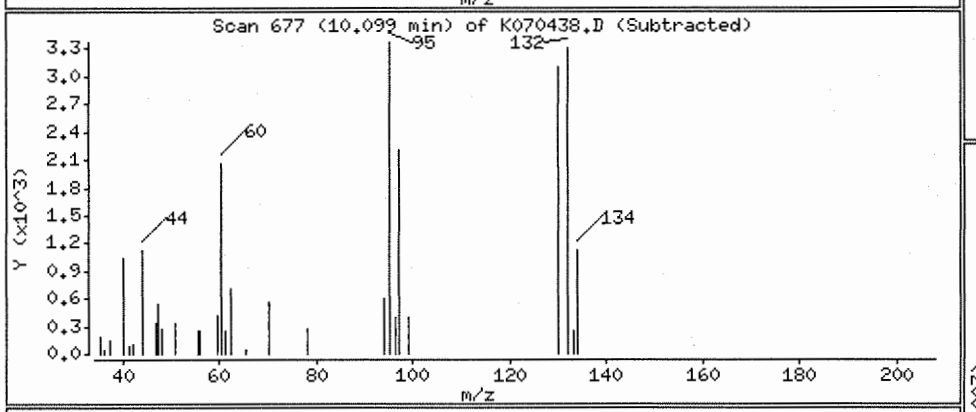
Column diameter: 0.32

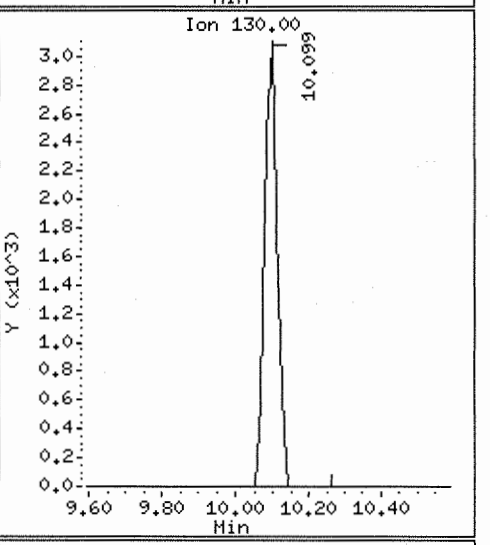
45 Trichloroethene

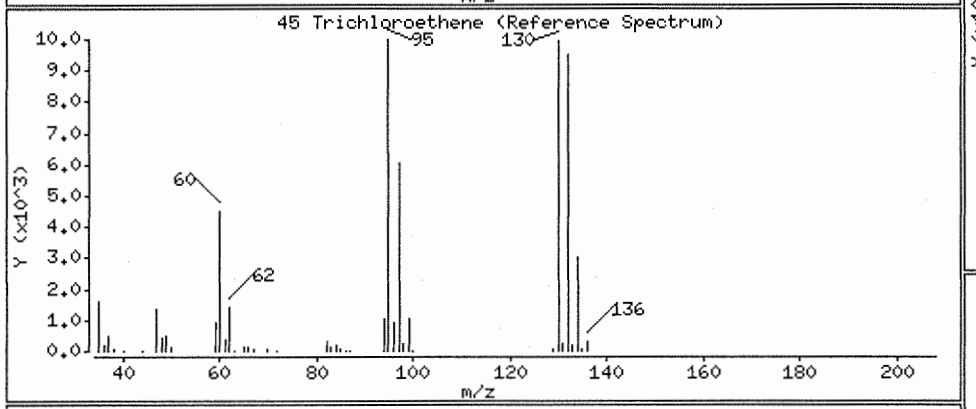
Concentration: 0.208 ug/L

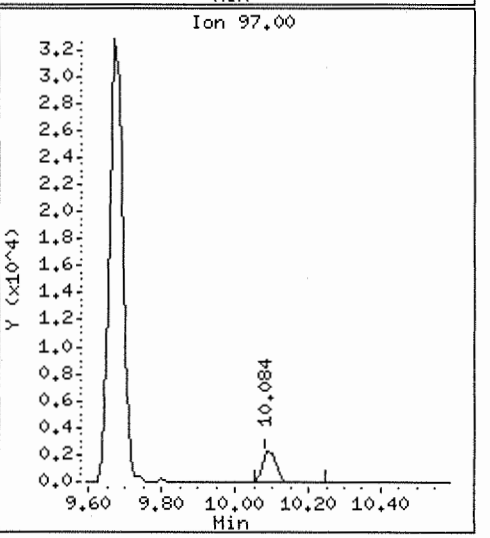


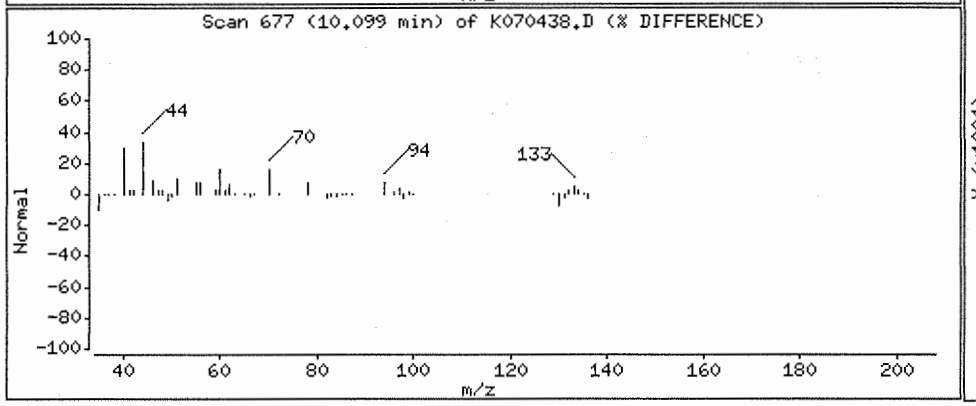












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD102-MW-4
Lab Code: D0700056-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	**1.2**	J	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: BLD102-MW-4
Lab Code: D0700056-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	108	79-135	01/19/2007	
4-Bromofluorobenzene - SS	96	82-124	01/19/2007	
Dibromofluoromethane - SS	101	84-127	01/19/2007	
Toluene-d8 - SS	98	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070439.D
Lab Smp Id: D0700056-008 Client Smp ID: BLD102-MW-4
Inj Date : 19-JAN-2007 02:45
Operator : X Inst ID: MSK.i
Smp Info : D0700056-008
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8/1/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.671	9.673	(1.000)	1169087	10.0000	
* 2	Chlorobenzene-d5	117	13.018	13.020	(1.000)	767079	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.606	15.593	(1.000)	317783	10.0000	
$ 4	Dibromofluoromethane	113	8.868	8.870	(0.917)	381369	10.1217	10.1
$ 5	1,2-Dichloroethane-d4	65	9.284	9.287	(0.960)	374281	10.7977	10.8
$ 6	Toluene-d8	98	11.426	11.414	(0.878)	979428	9.84175	9.84
$ 7	Bromofluorobenzene	174	14.282	14.284	(0.915)	277377	9.64710	9.65
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.807	4.646	(0.497)	2317	0.72386	0.724(aQ)
13	Chloroethane	64	4.778	4.810	(0.494)	2817	0.18490	0.185(a)
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.220	6.059	(0.643)	31283	1.11136	1.11(a)
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

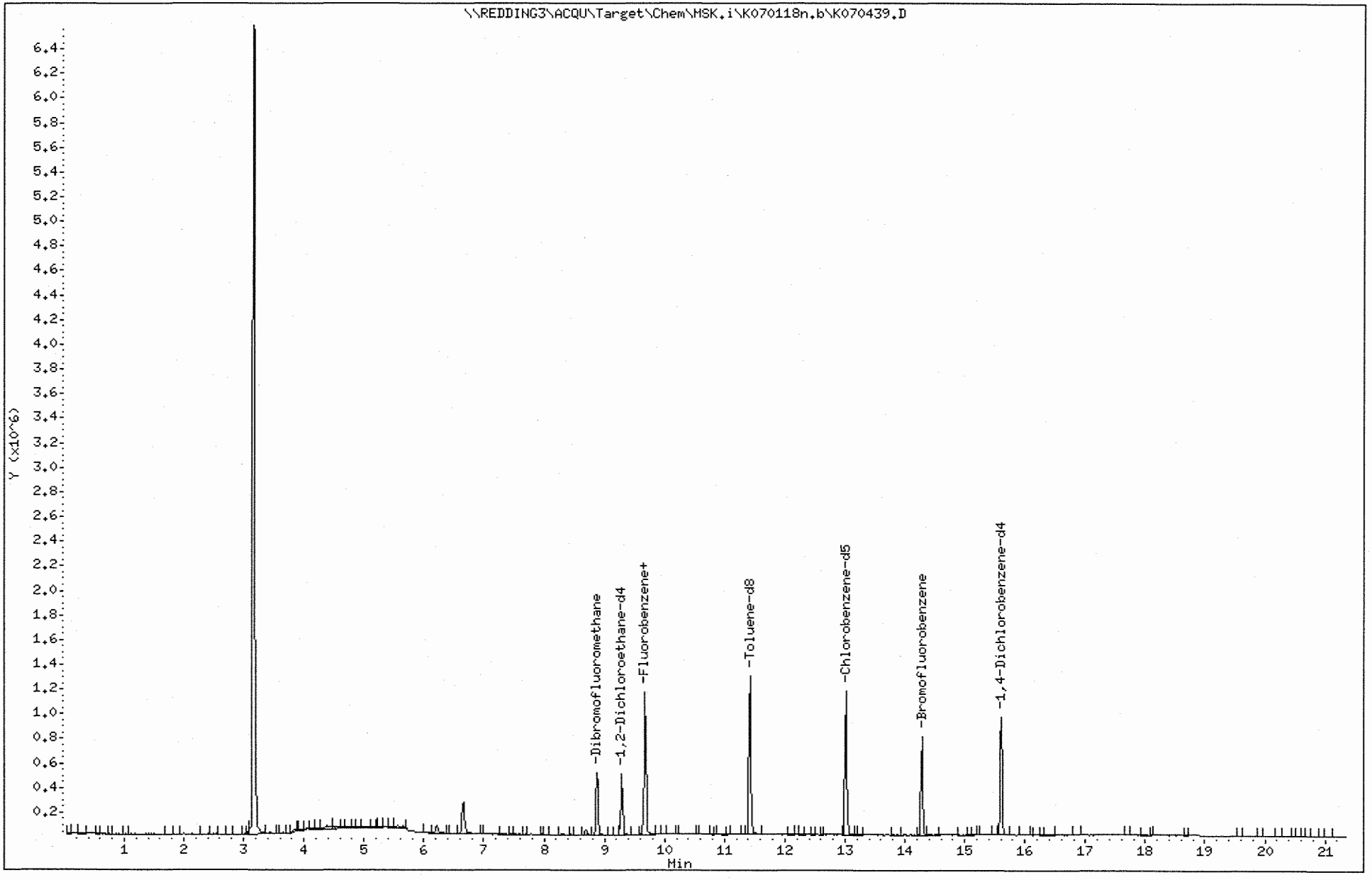
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.303	8.290	(0.859)	16870	1.23295	1.23(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.671	9.361	(1.000)	16565	0.37928	0.379(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070439.D
Date : 19-JAN-2007 02:45
Client ID: BLD102-MW-4
Sample Info: D0700056-008
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070439.D

Date : 19-JAN-2007 02:45

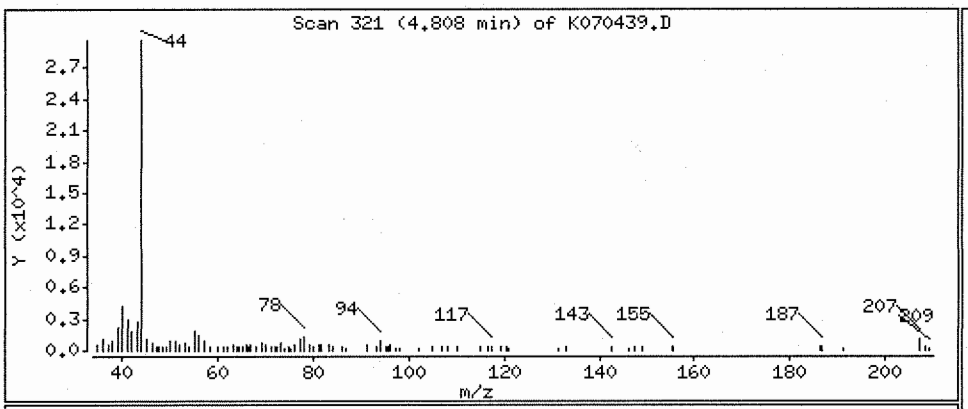
Client ID: BLD102-MW-4 Instrument: MSK.i

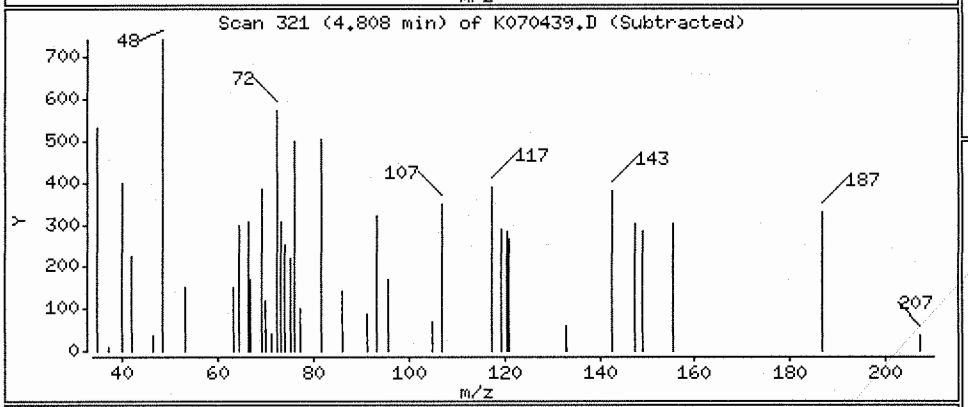
Sample Info: D0700056-008

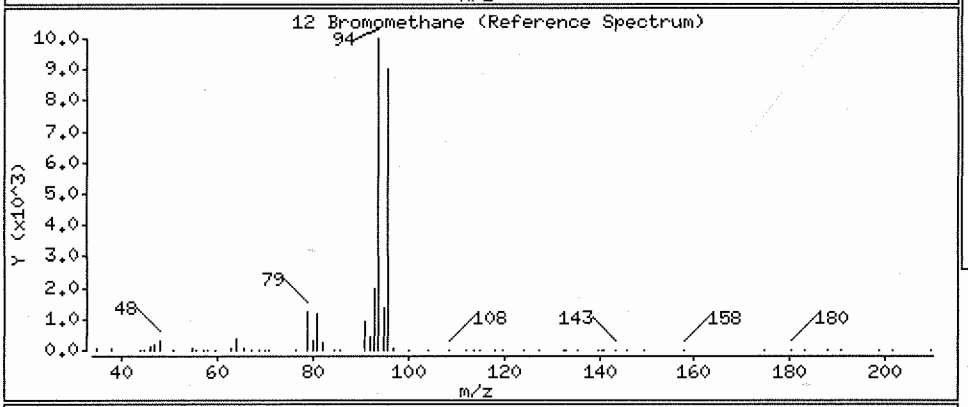
Purge Volume: 10.0 Operator: X

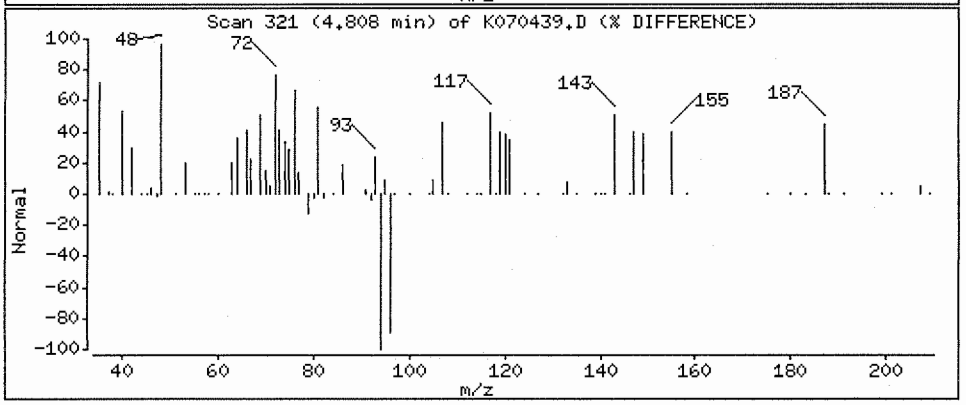
Column phase: DB-624 Column diameter: 0.32

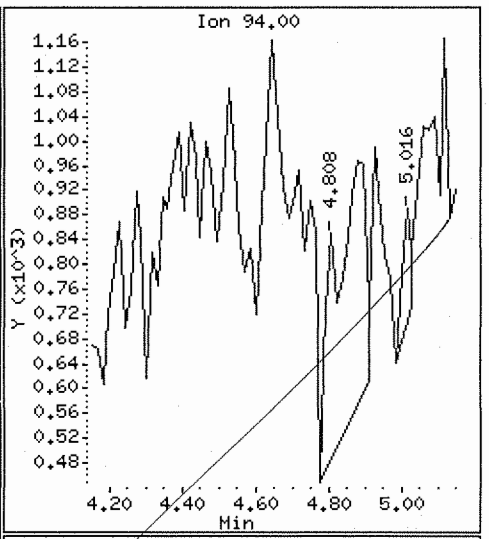
12 Bromomethane Concentration: 0.724 ug/L

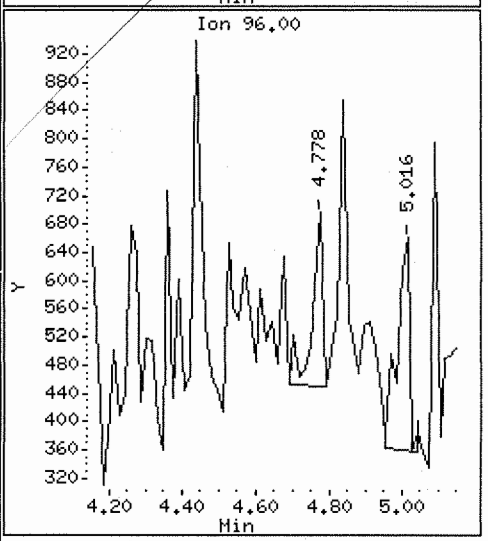












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Date : 19-JAN-2007 02:45

Client ID: BLD102-MW-4

Instrument: MSK.i

Sample Info: D0700056-008

Purge Volume: 10.0

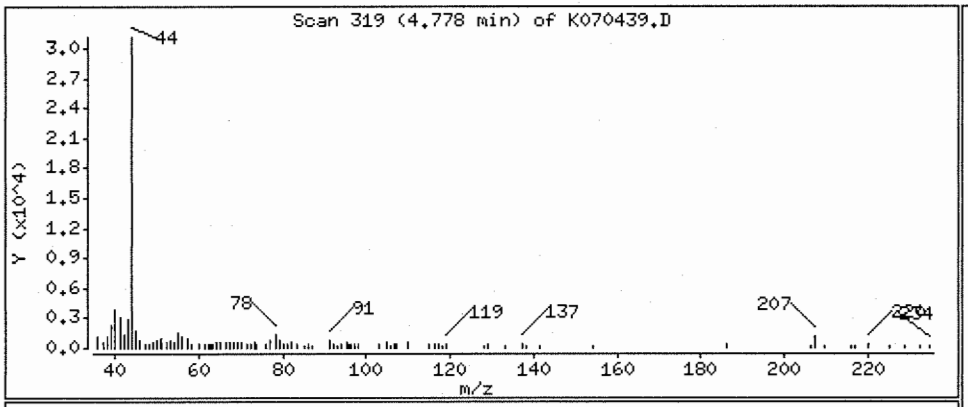
Operator: X

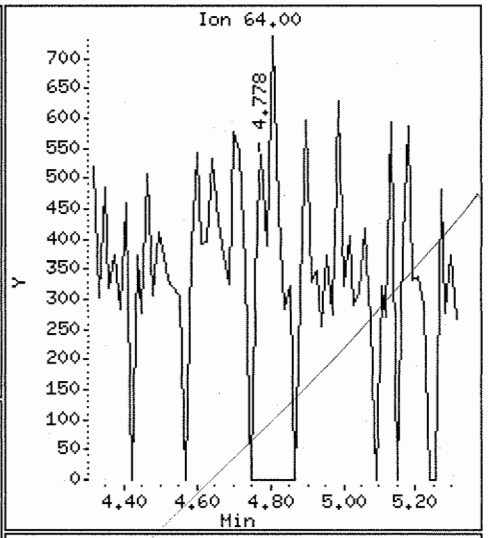
Column phase: DB-624

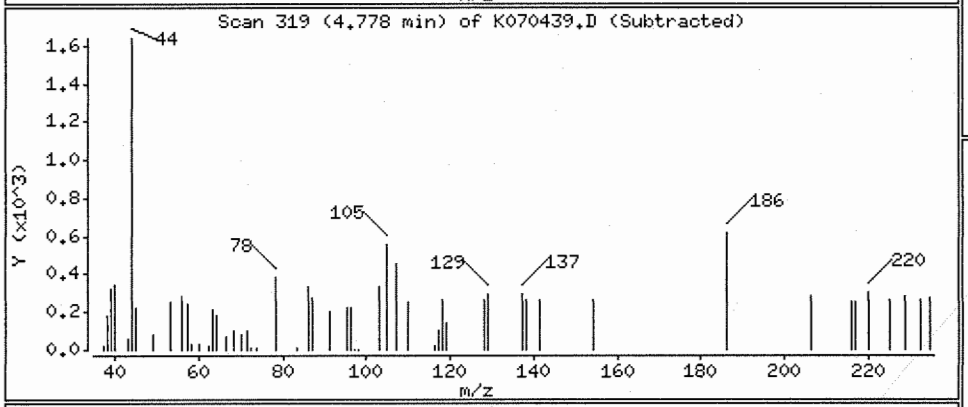
Column diameter: 0.32

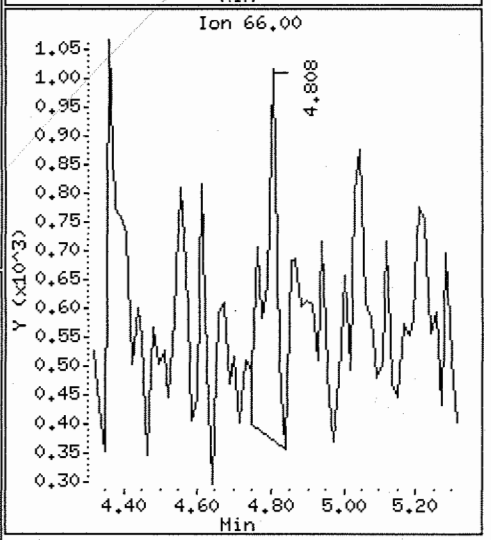
13 Chloroethane

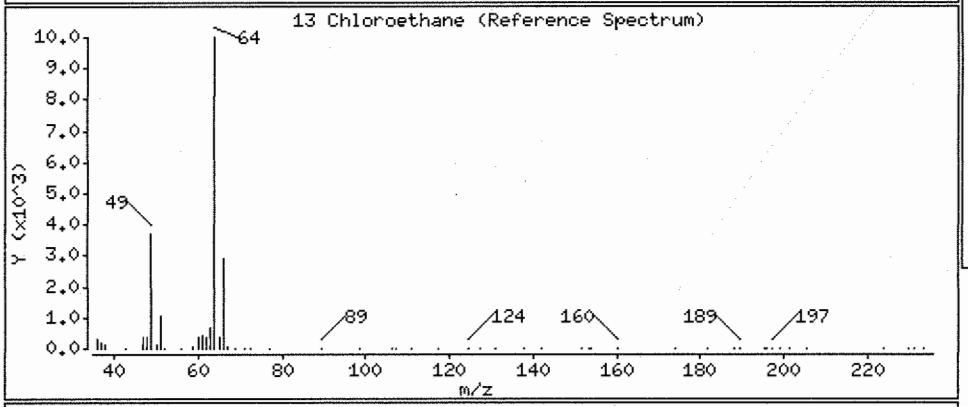
Concentration: 0.185 ug/L

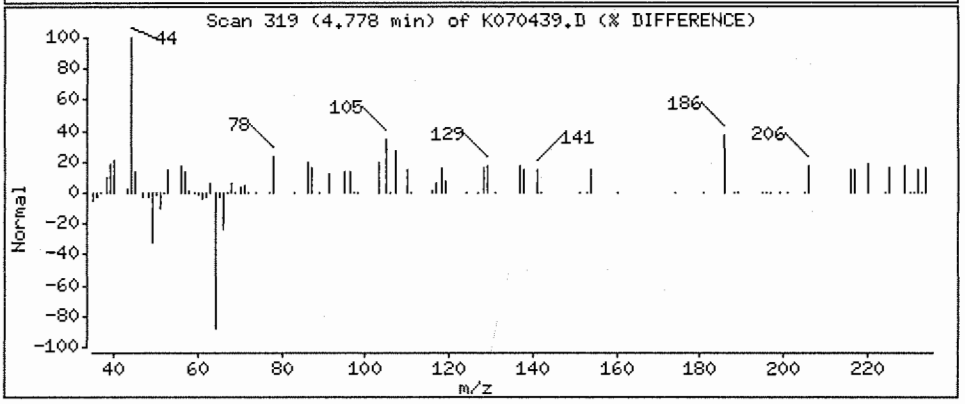












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070439.D

Date : 19-JAN-2007 02:45

Client ID: BLD102-MW-4

Instrument: MSK.i

Sample Info: D0700056-008

Purge Volume: 10.0

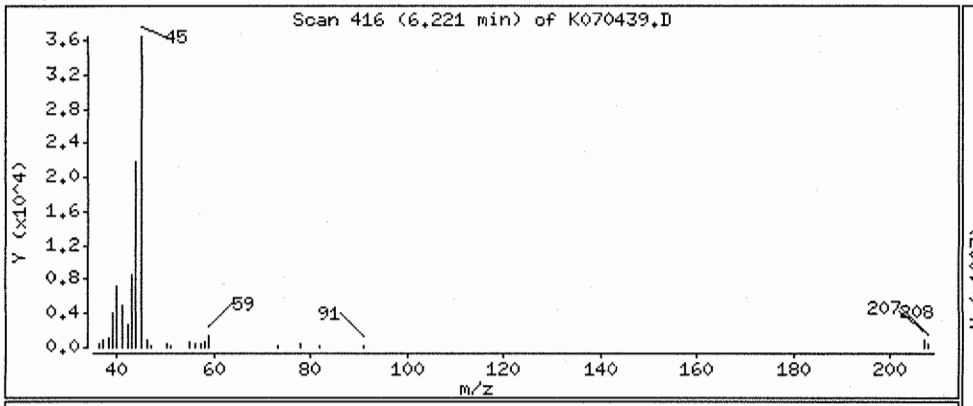
Operator: X

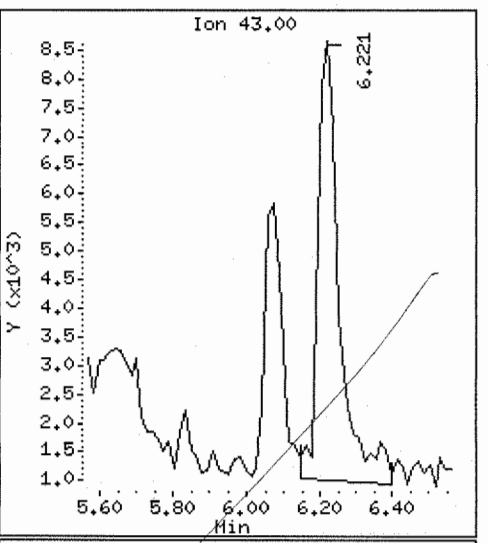
Column phase: DB-624

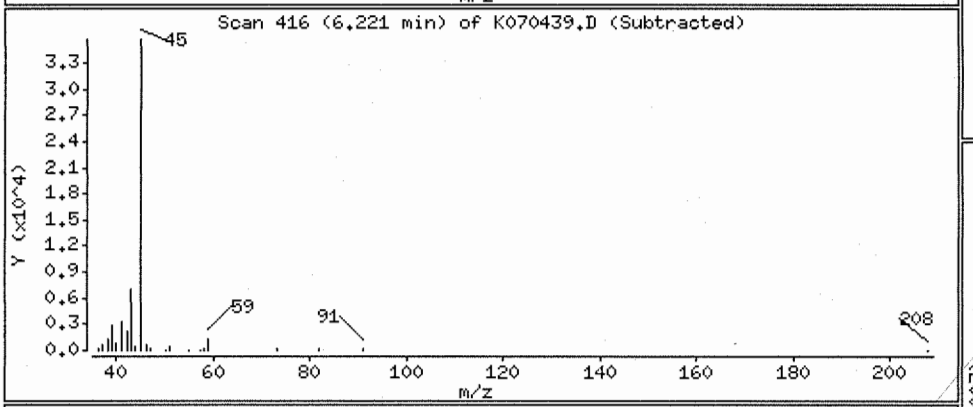
Column diameter: 0.32

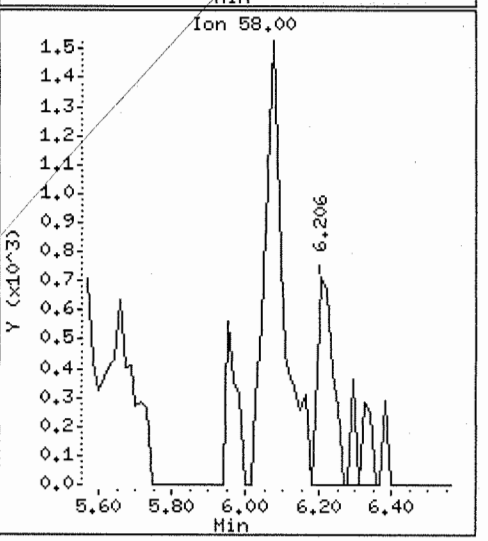
18 Acetone

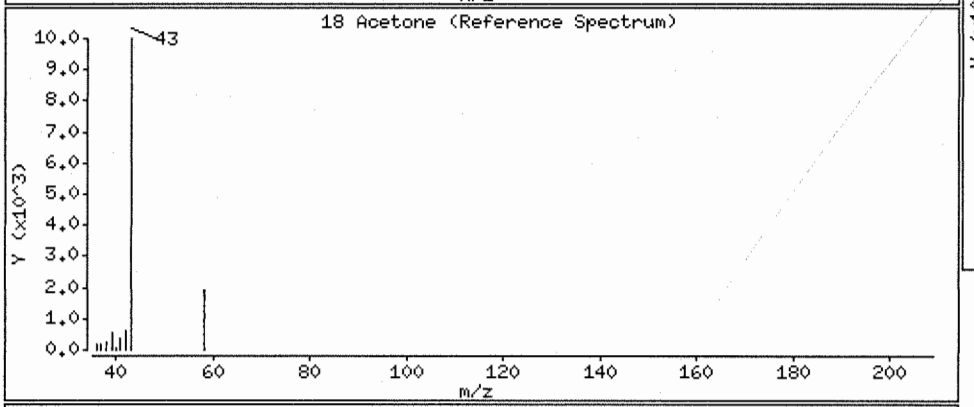
Concentration: 1.11 ug/L

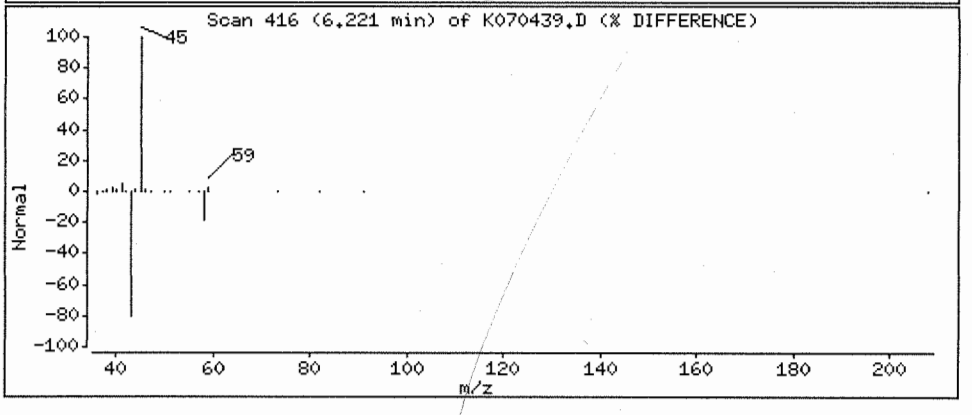












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070439.D

Date : 19-JAN-2007 02:45

Client ID: BLD102-MW-4

Instrument: MSK.i

Sample Info: D0700056-008

Purge Volume: 10.0

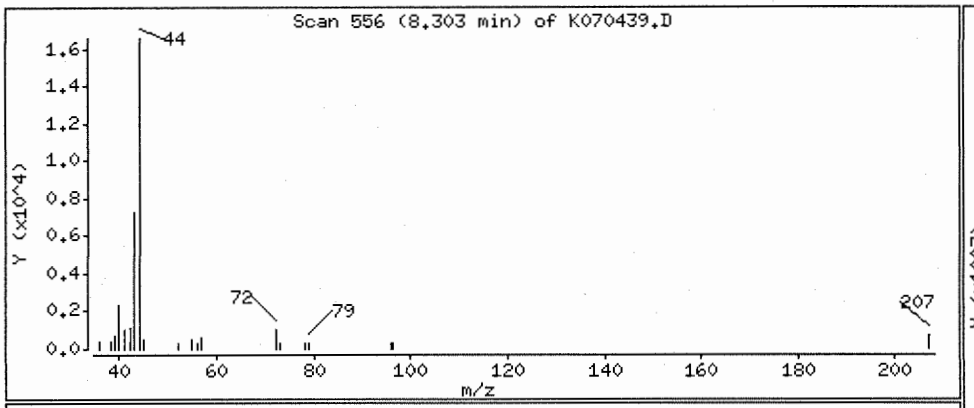
Operator: X

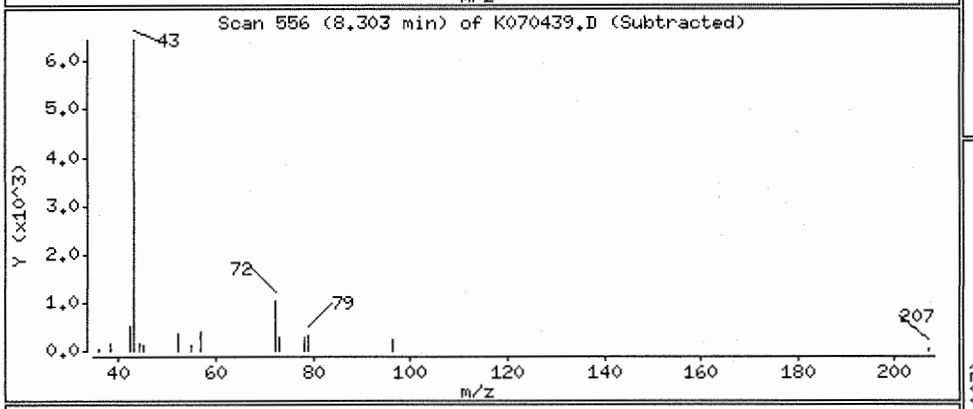
Column phase: DB-624

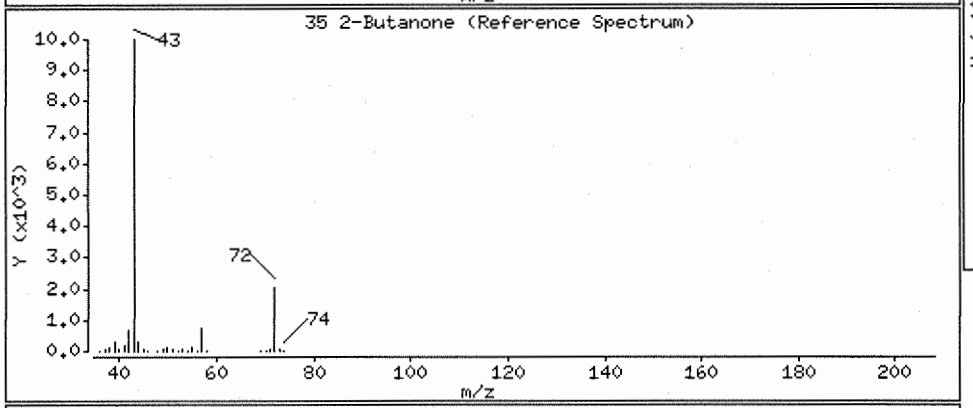
Column diameter: 0.32

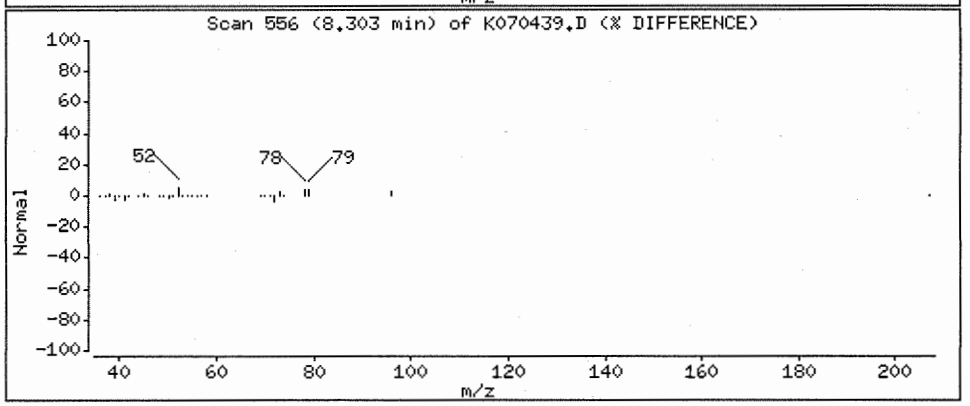
35 2-Butanone

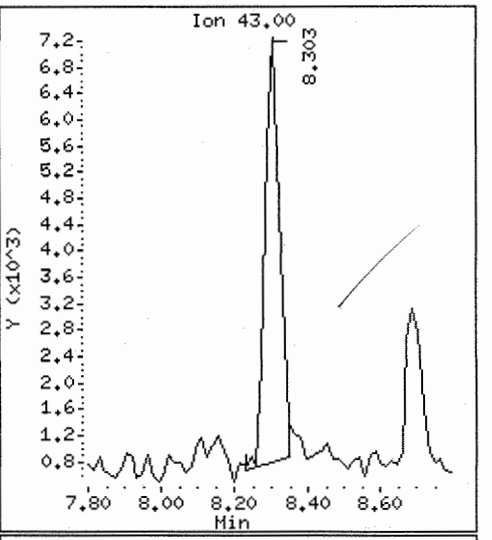
Concentration: 1.23 ug/L

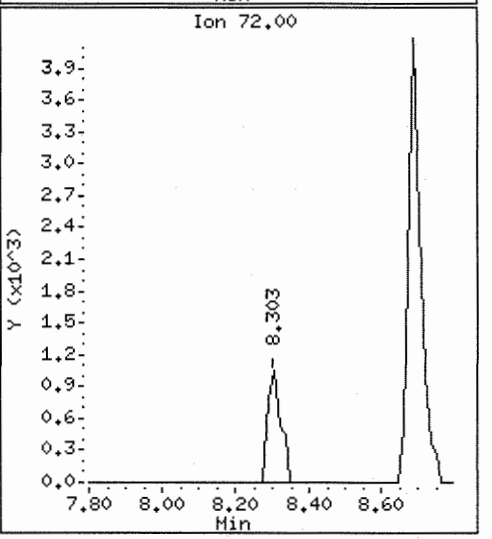












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070439.D

Date : 19-JAN-2007 02:45

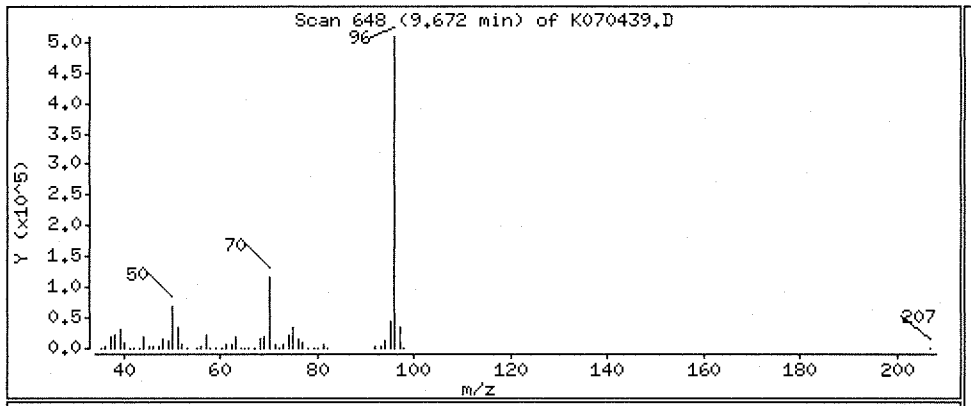
Client ID: BLD102-MW-4 Instrument: MSK.i

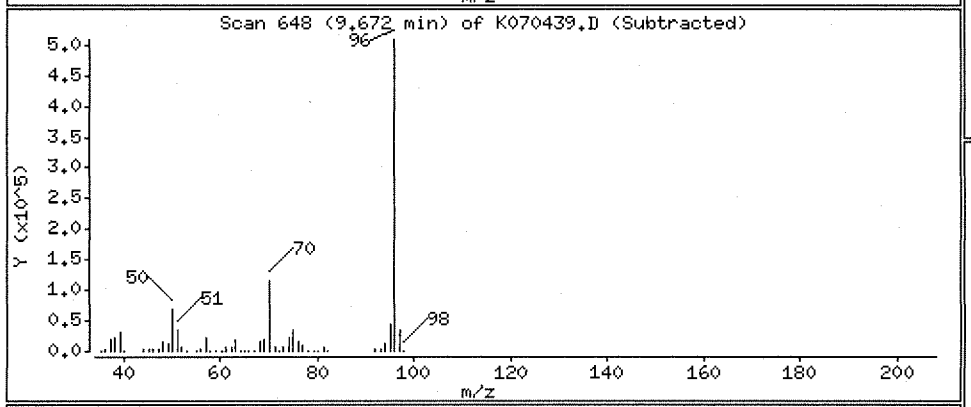
Sample Info: D0700056-008

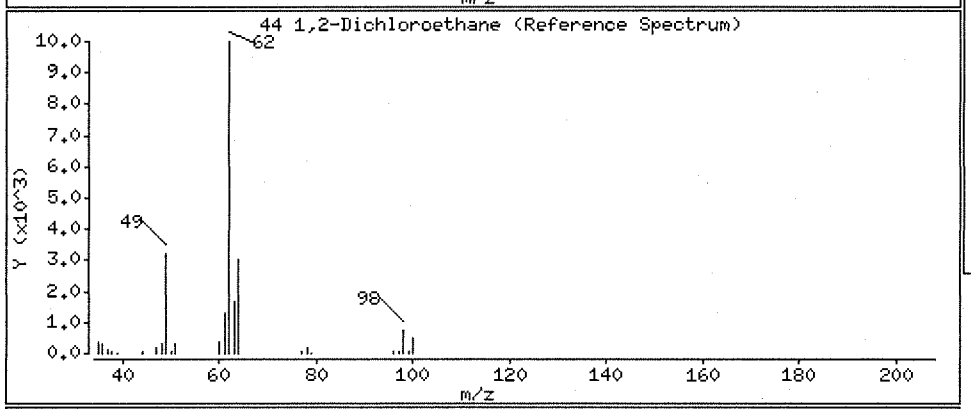
Purge Volume: 10.0 Operator: X

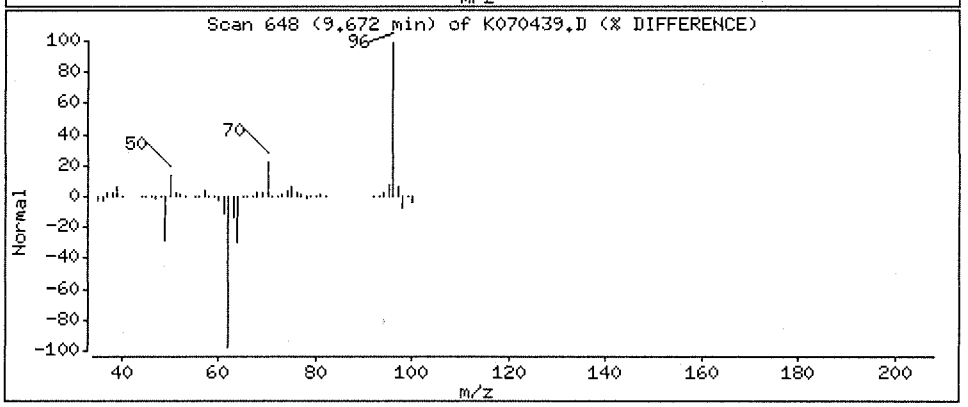
Column phase: DB-624 Column diameter: 0.32

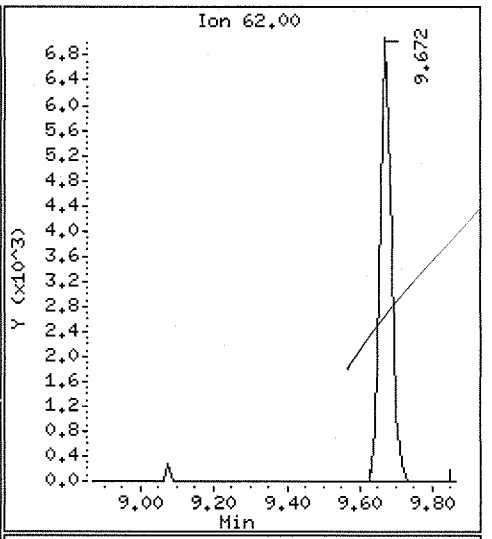
44 1,2-Dichloroethane Concentration: 0.379 ug/L

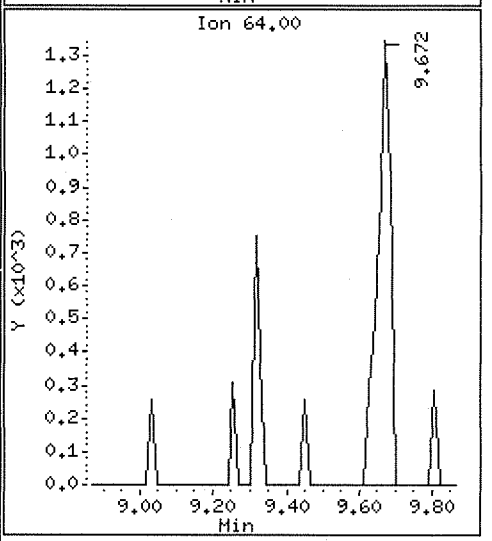












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-1
Lab Code: D0700056-009
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	**0.64**		0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**0.17**	J	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	**1.3**	J	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	**0.15**	J	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/10/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-1
Lab Code: D0700056-009
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	123	79-135	01/19/2007	
4-Bromofluorobenzene - SS	103	82-124	01/19/2007	
Dibromofluoromethane - SS	107	84-127	01/19/2007	
Toluene-d8 - SS	99	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070440.D
Lab Smp Id: D0700056-009 Client Smp ID: MWCL-1
Inj Date : 19-JAN-2007 03:11
Operator : X Inst ID: MSK.i
Smp Info : D0700056-009
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LU1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8a 1/19/07

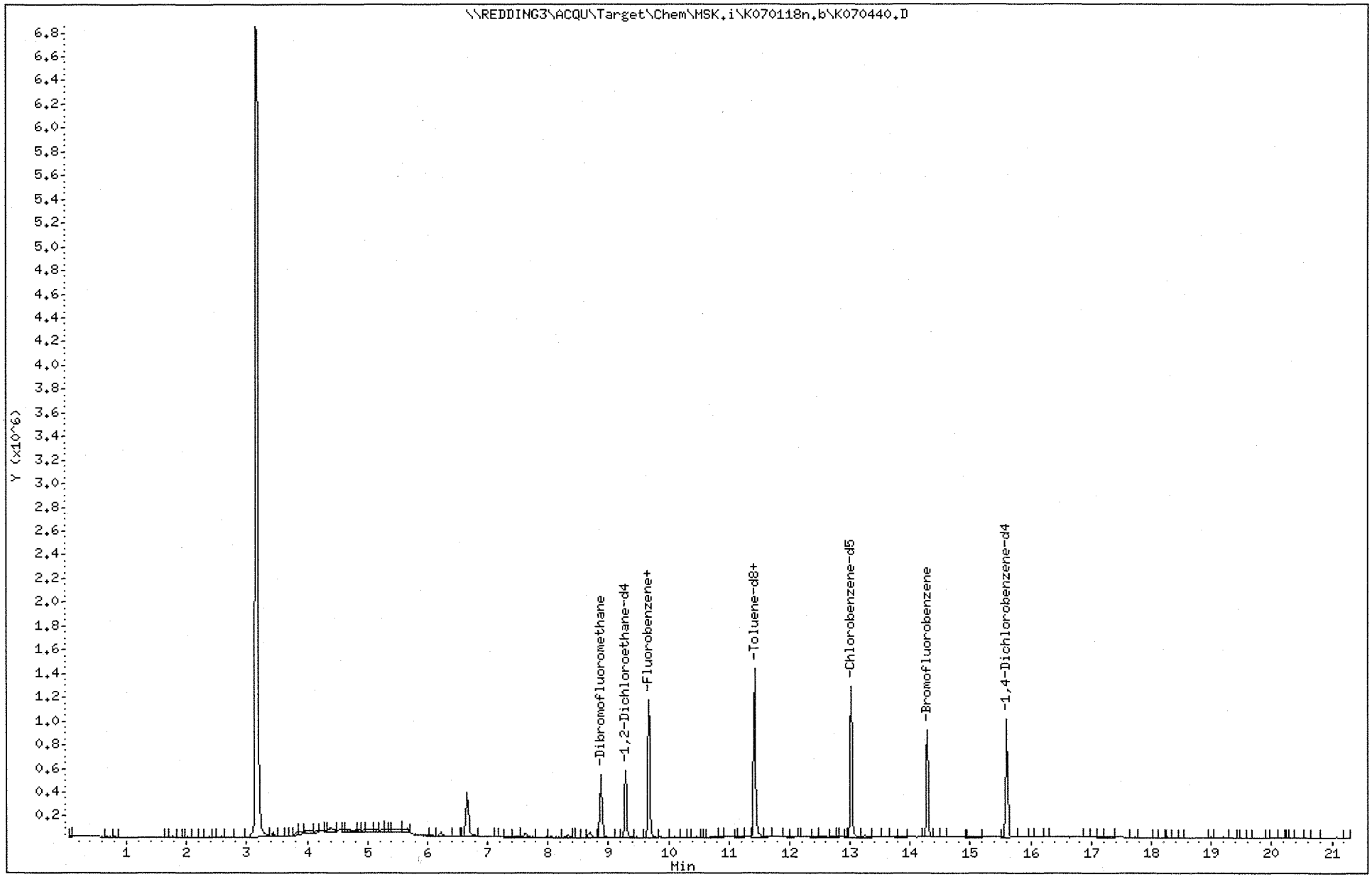
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.673	9.673	(1.000)	1203442	10.0000	
* 2 Chlorobenzene-d5	117	13.019	13.020	(1.000)	825090	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	15.607	15.593	(1.000)	333387	10.0000	
$ 4 Dibromofluoromethane	113	8.869	8.870	(0.917)	416609	10.7413	10.7
$ 5 1,2-Dichloroethane-d4	65	9.286	9.287	(0.960)	438417	12.2869	12.3
$ 6 Toluene-d8	98	11.428	11.414	(0.878)	1061489	9.91640	9.92
$ 7 Bromofluorobenzene	174	14.284	14.284	(0.915)	311944	10.3415	10.3
8 Dichlorodifluoromethane	85	Compound Not Detected.					
10 Chloromethane	50	Compound Not Detected.					
11 Vinyl chloride	62	Compound Not Detected.					
12 Bromomethane	94	4.660	4.646	(0.482)	1803	0.69655	0.696(aQ)
13 Chloroethane	64	Compound Not Detected.					
14 Trichlorofluoromethane	101	Compound Not Detected.					
15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene chloride	84	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
27 tert-Butylmethylether	73	Compound Not Detected.					
28 1,1-Dichloroethane	63	7.620	7.621	(0.788)	43792	0.64140	0.641
30 Vinyl acetate	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.334	8.335	(0.862)	6791	0.17170	0.172(a)
35	2-Butanone	43	8.304	8.290	(0.859)	18805	1.33513	1.34(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.673	9.361	(1.000)	17609	0.39168	0.392(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	11.502	11.503	(0.883)	11195	0.14604	0.146(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070440.D
Date : 19-JAN-2007 03:11
Client ID: MWCL-1
Instrument: MSK.i
Sample Info: D0700056-009
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070440.D

Date : 19-JAN-2007 03:11

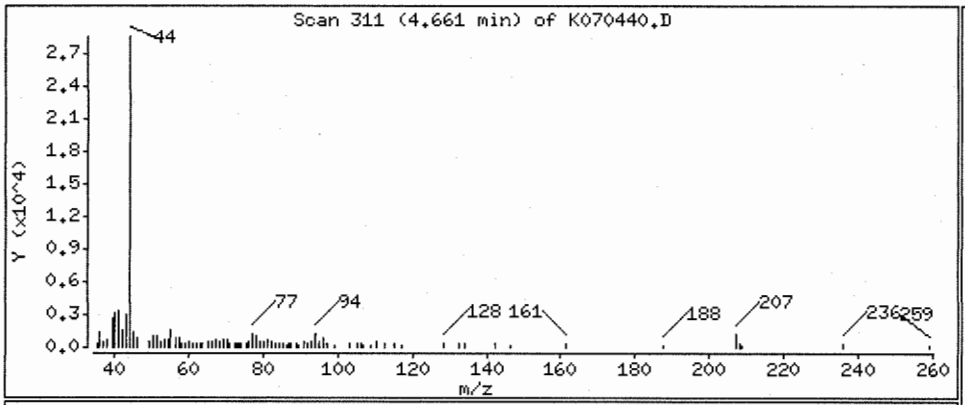
Client ID: MWCL-1 Instrument: MSK.i

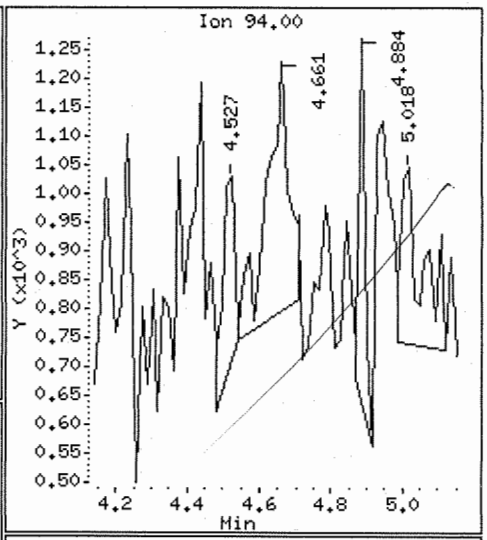
Sample Info: D0700056-009

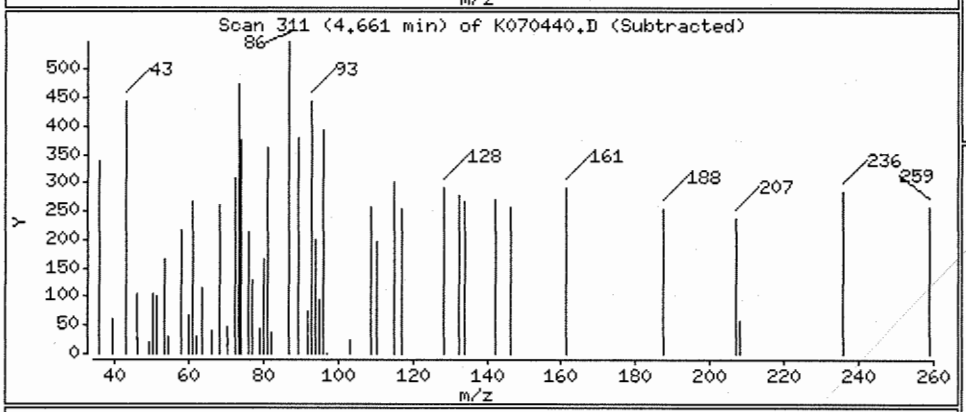
Purge Volume: 10.0 Operator: X

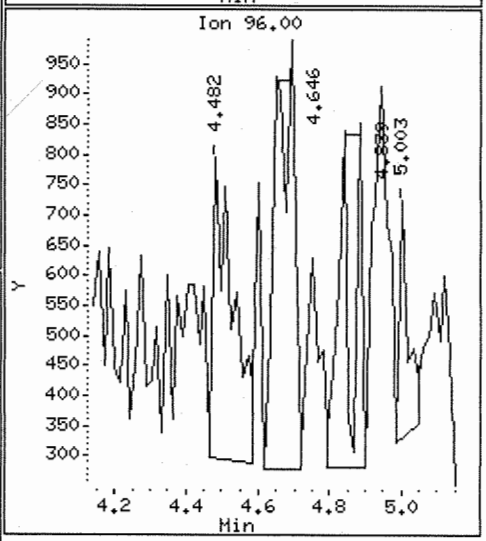
Column phase: DB-624 Column diameter: 0.32

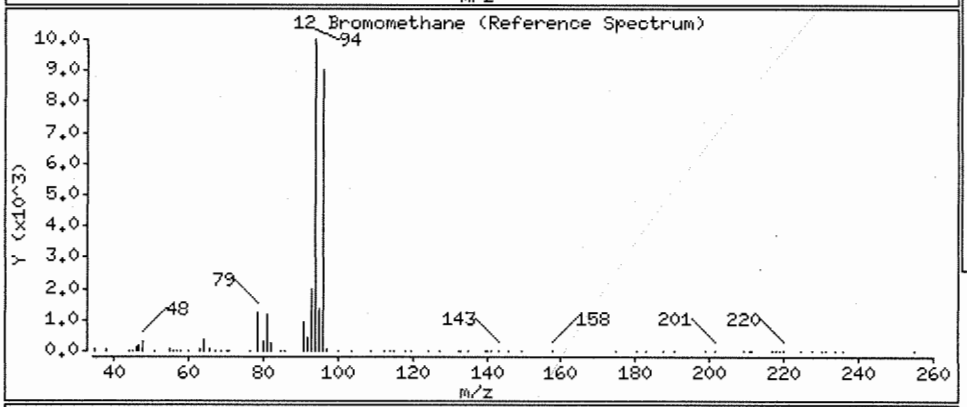
12 Bromomethane Concentration: 0.696 ug/L

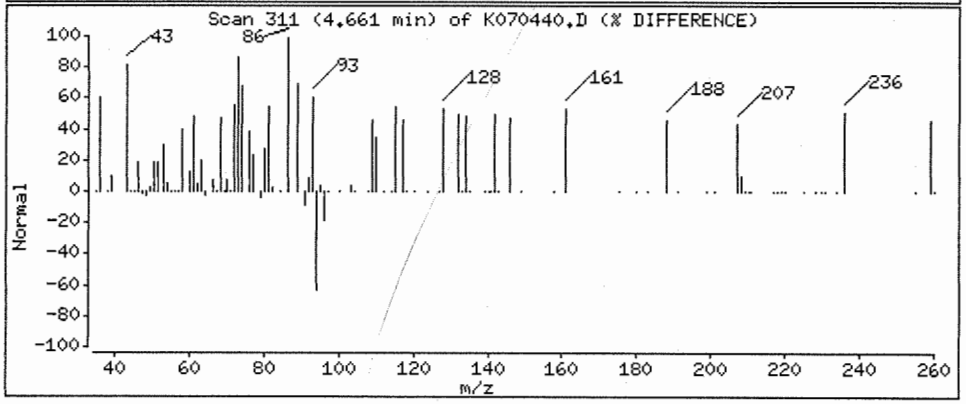












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070440.D

Date : 19-JAN-2007 03:11

Client ID: MWCL-1

Instrument: MSK.i

Sample Info: D0700056-009

Purge Volume: 10.0

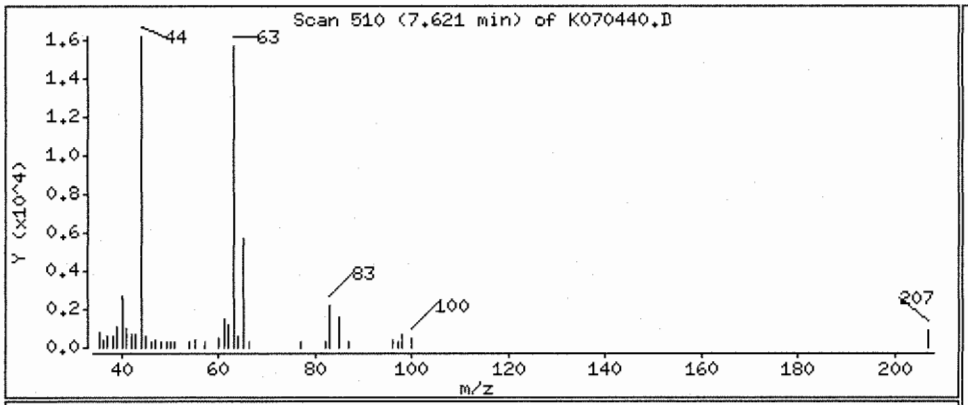
Operator: X

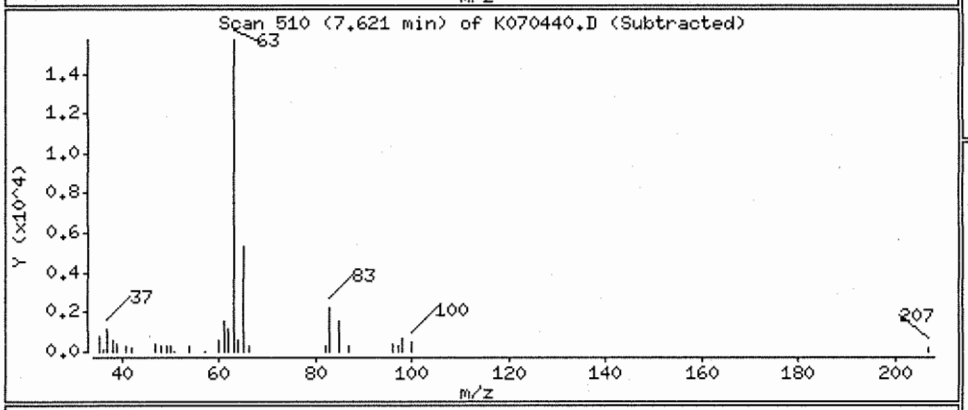
Column phase: DB-624

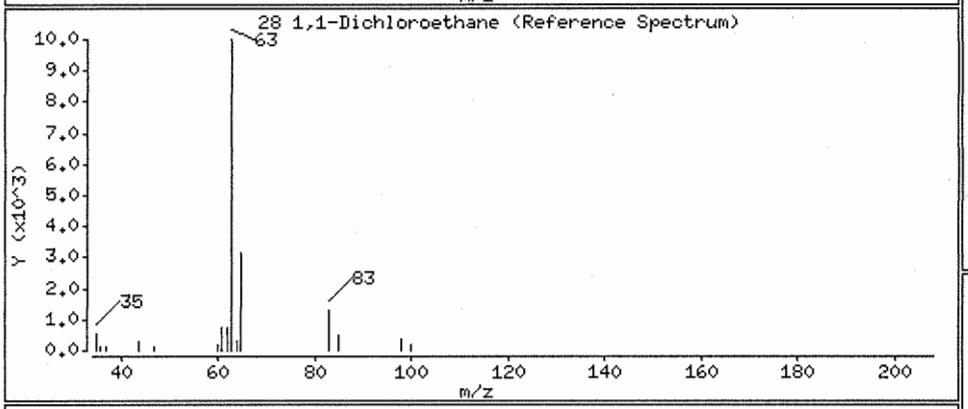
Column diameter: 0.32

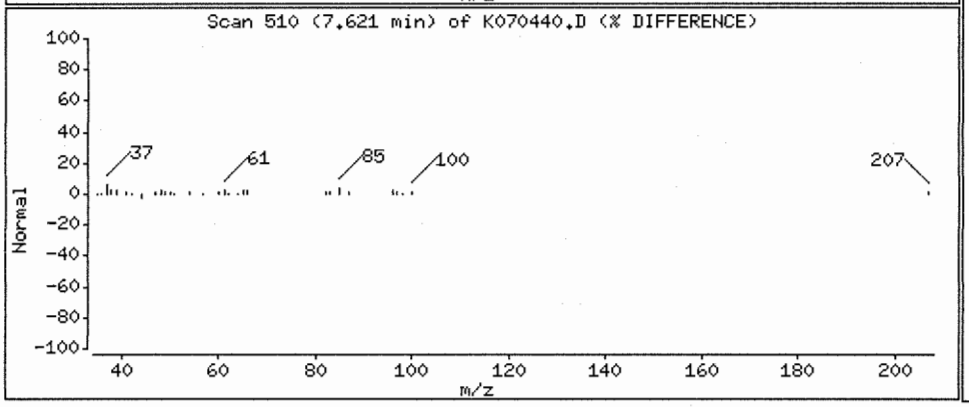
28 1,1-Dichloroethane

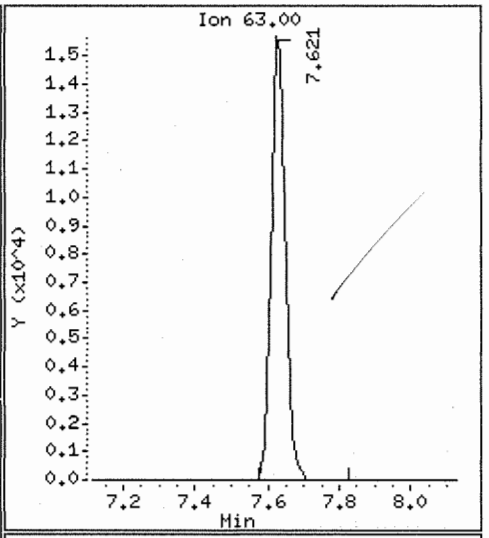
Concentration: 0.641 ug/L

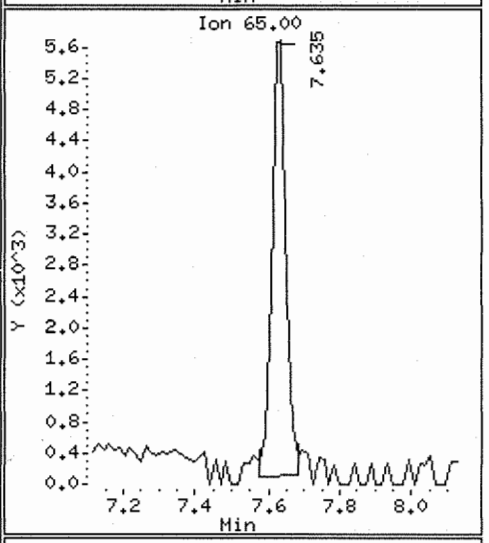


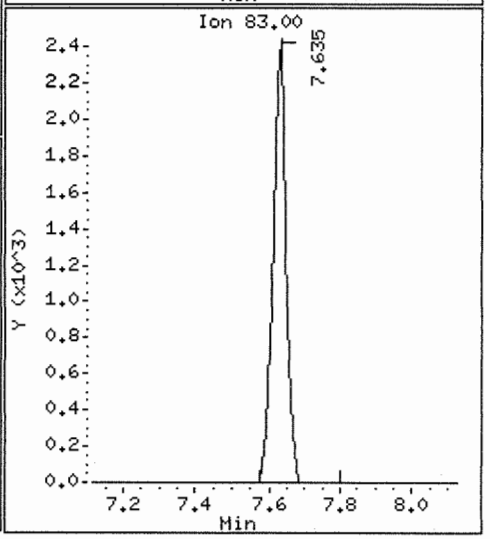












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070440.D

Date : 19-JAN-2007 03:11

Client ID: MWCL-1

Instrument: MSK.i

Sample Info: D0700056-009

Purge Volume: 10.0

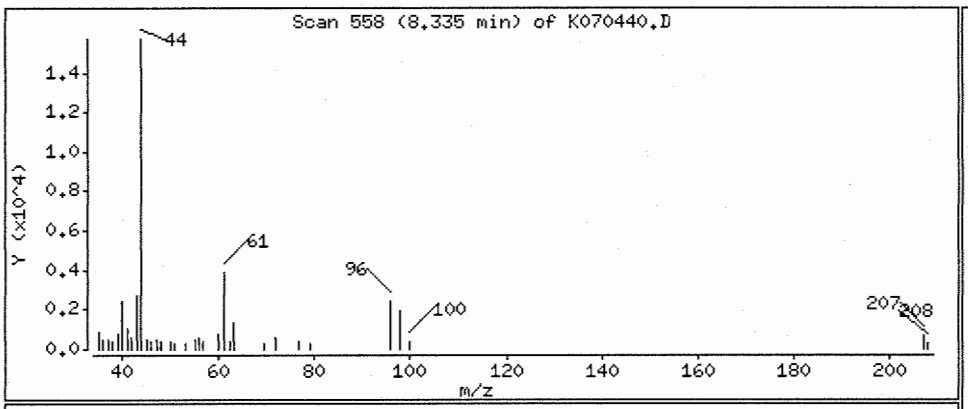
Operator: X

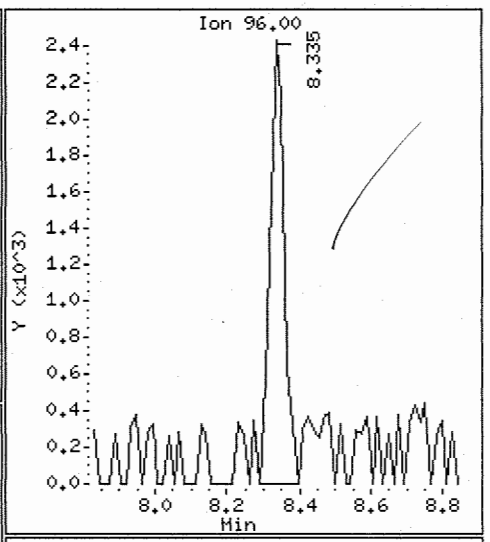
Column phase: DB-624

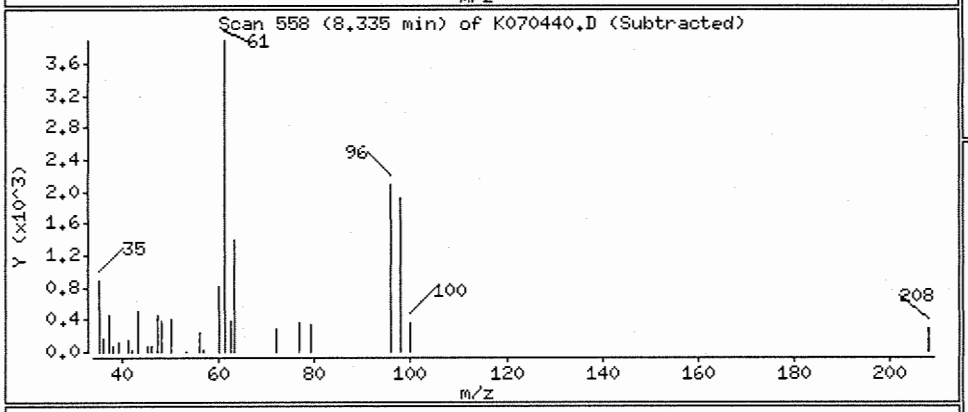
Column diameter: 0.32

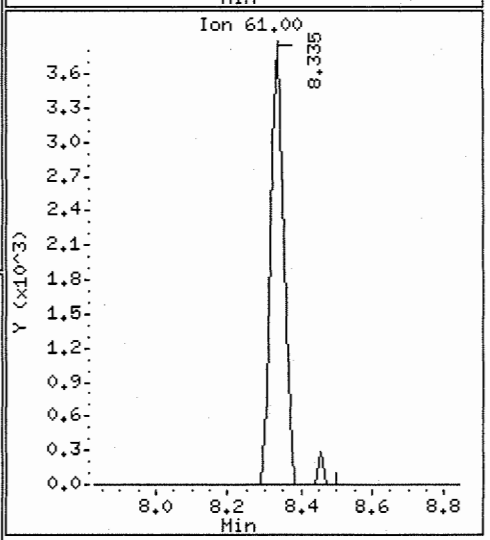
33 cis-1,2-Dichloroethene

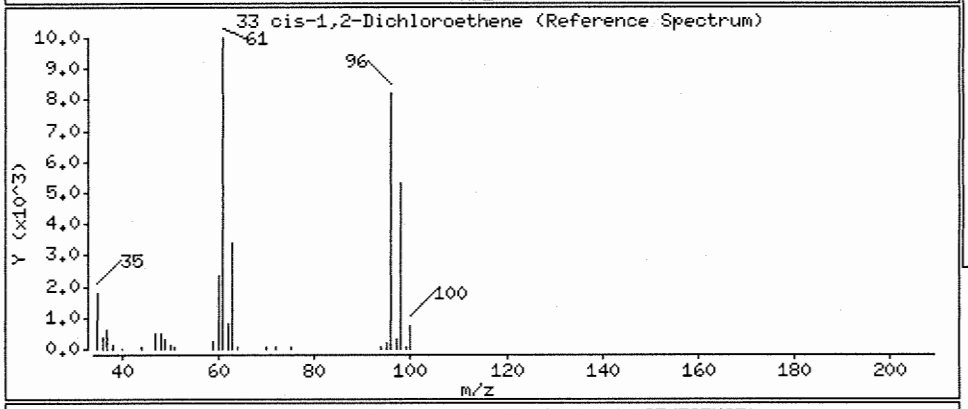
Concentration: 0.172 ug/L

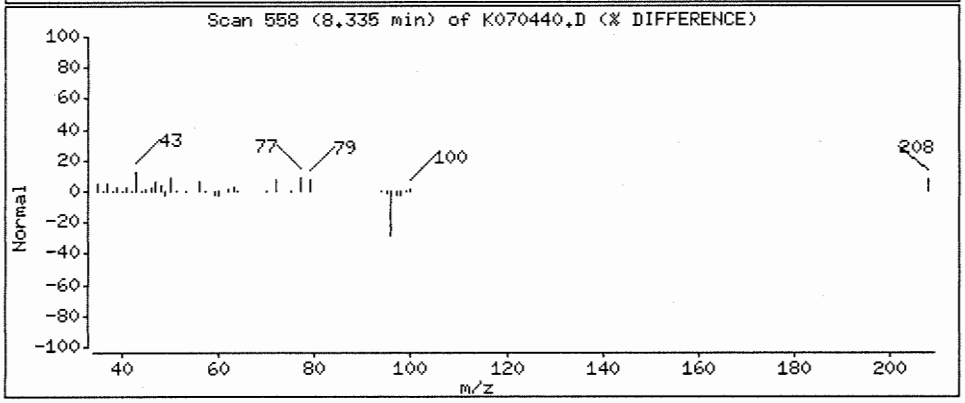












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070440.D

Date : 19-JAN-2007 03:11

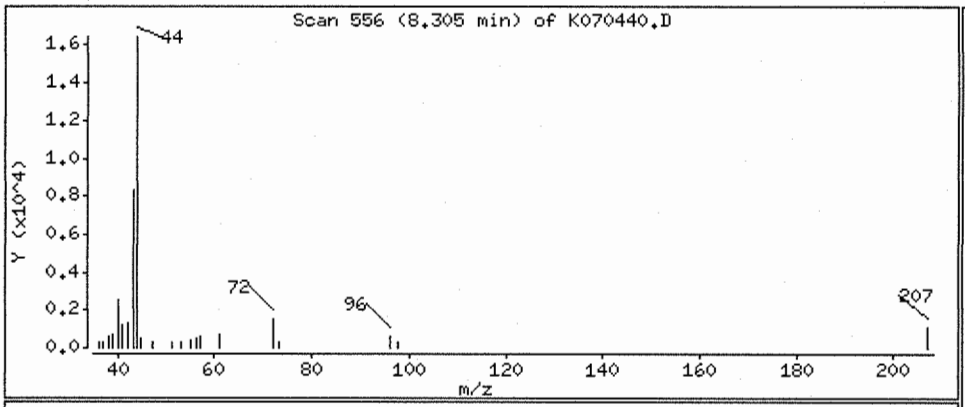
Client ID: MWCL-1 Instrument: MSK.i

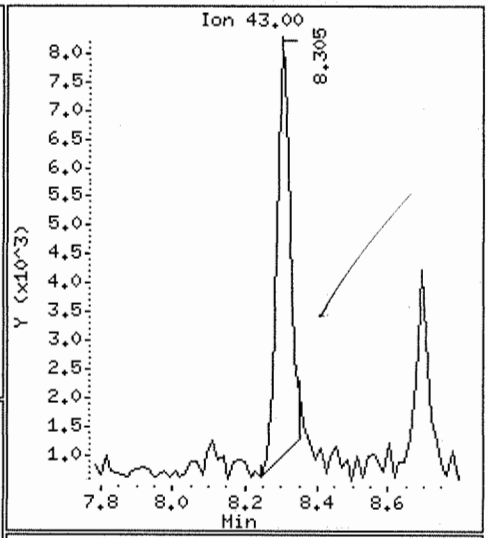
Sample Info: D0700056-009

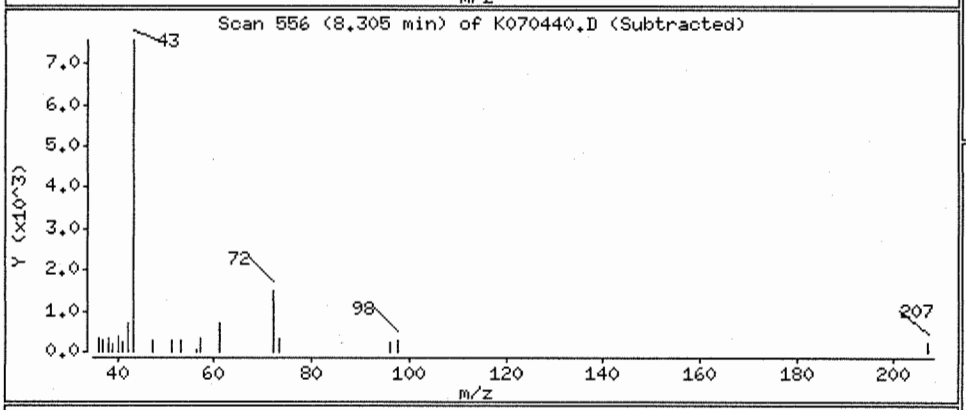
Purge Volume: 10.0 Operator: X

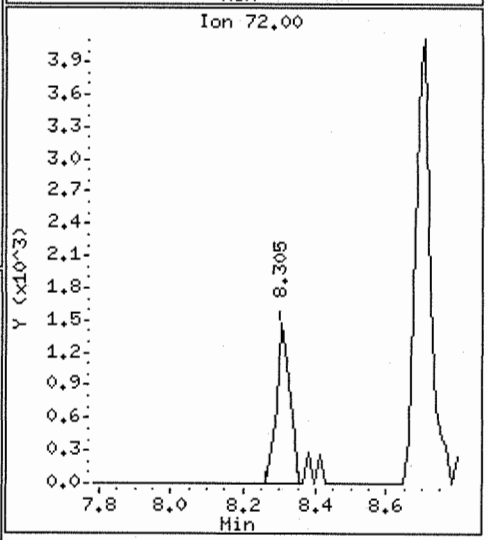
Column phase: DB-624 Column diameter: 0.32

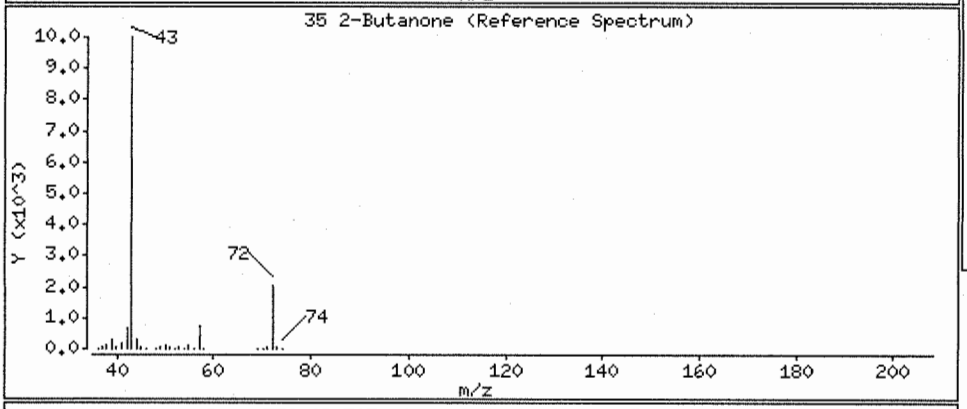
35 2-Butanone Concentration: 1.34 ug/L

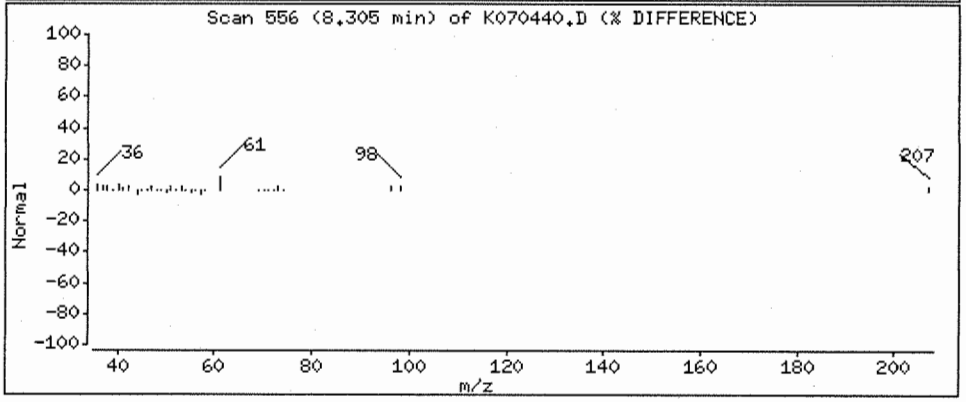












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070440.D

Date : 19-JAN-2007 03:11

Client ID: MWCL-1

Instrument: MSK.i

Sample Info: D0700056-009

Purge Volume: 10.0

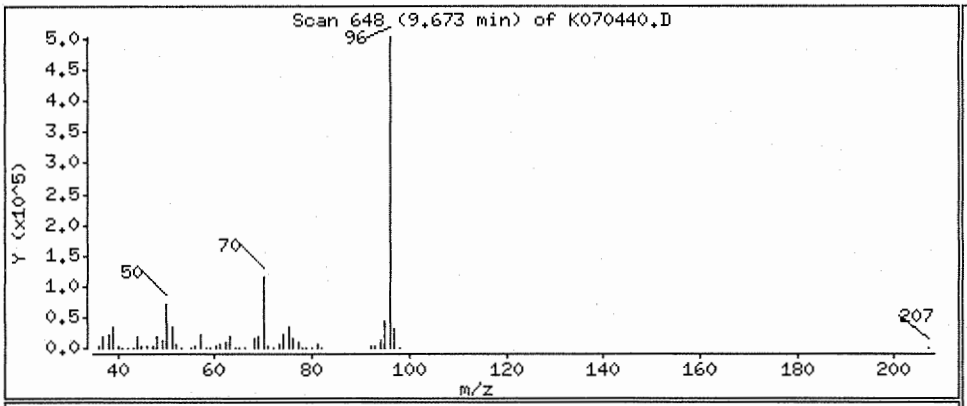
Operator: X

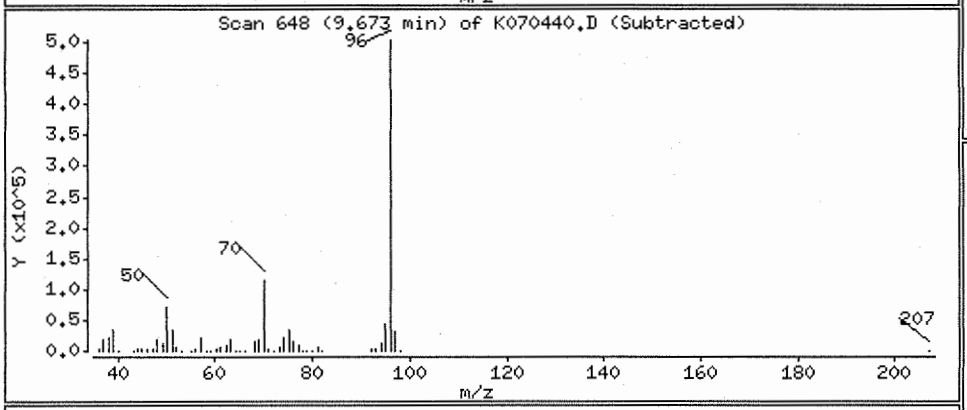
Column phase: DB-624

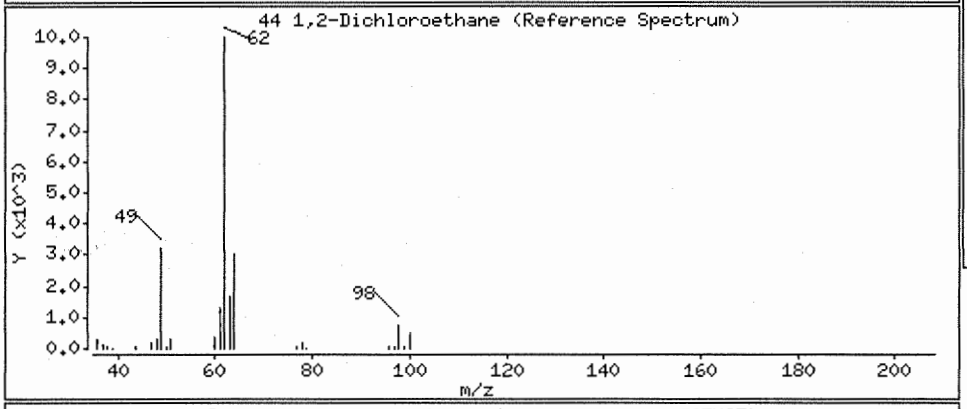
Column diameter: 0.32

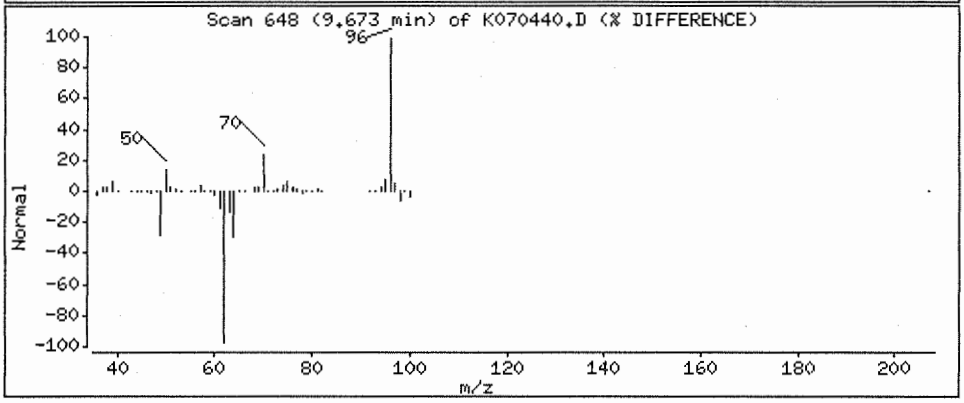
44 1,2-Dichloroethane

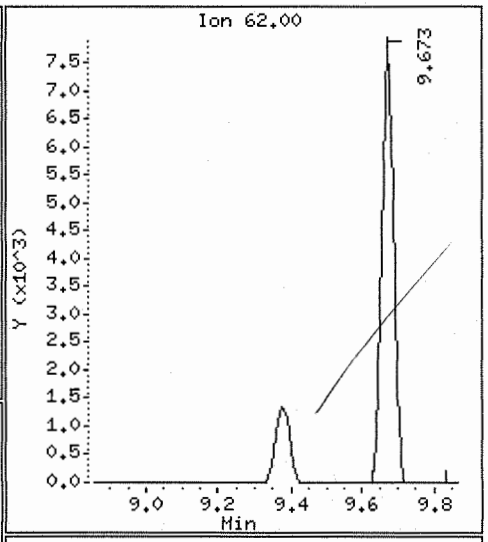
Concentration: 0.392 ug/L

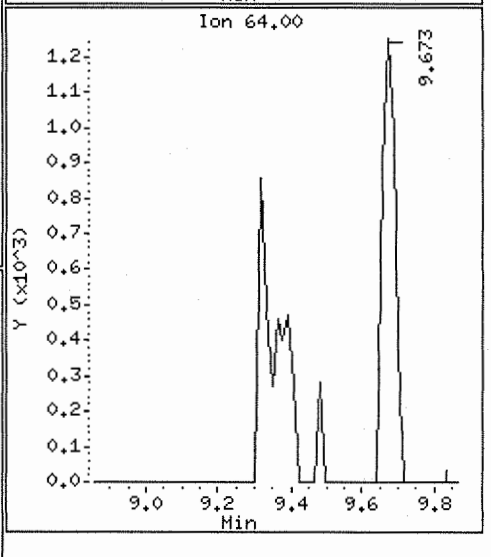












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070440.D

Date : 19-JAN-2007 03:11

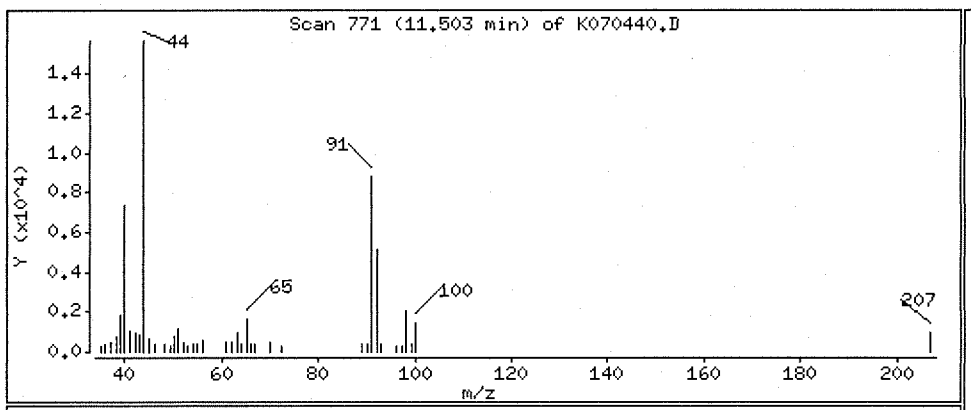
Client ID: MWCL-1 Instrument: MSK.i

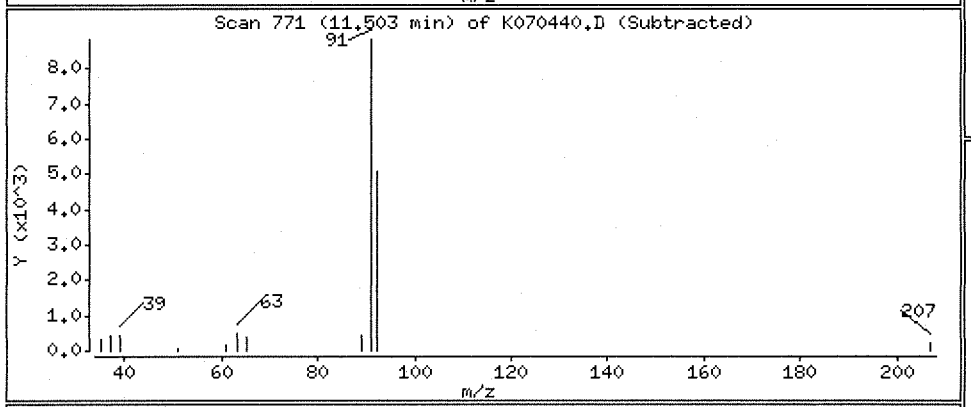
Sample Info: D0700056-009

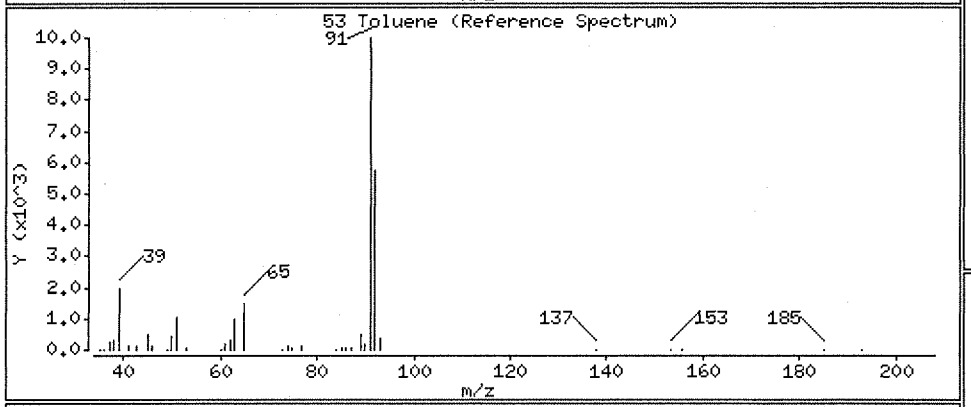
Purge Volume: 10.0 Operator: X

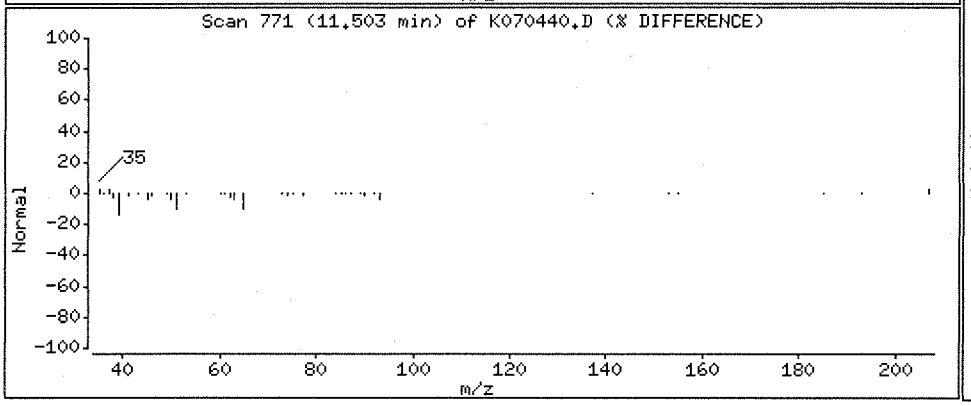
Column phase: DB-624 Column diameter: 0.32

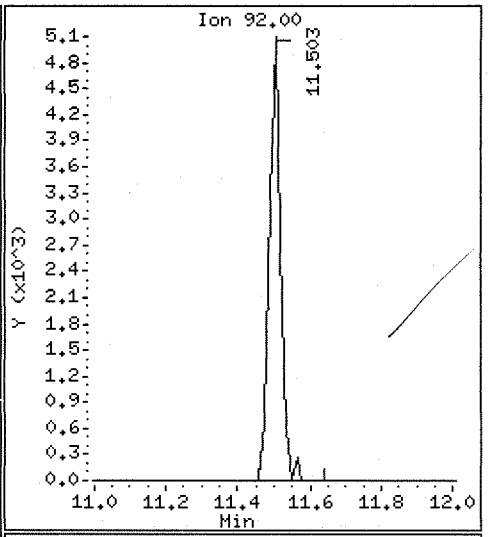
53 Toluene Concentration: 0.146 ug/L

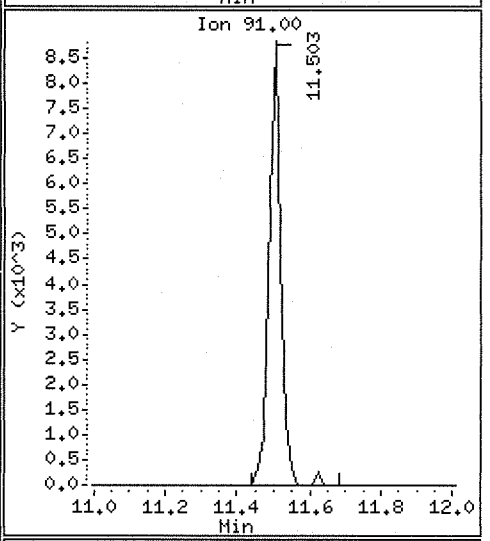


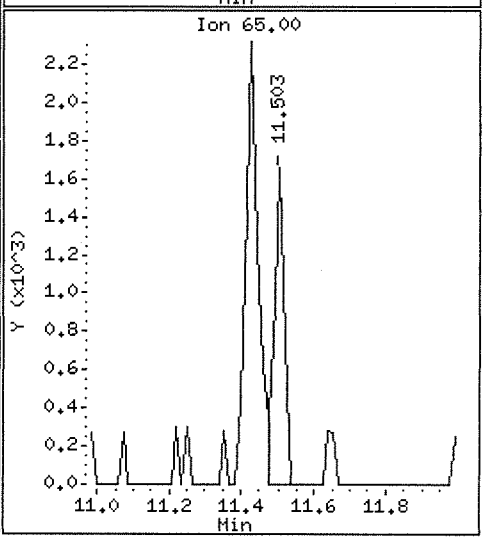












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-2
Lab Code: D0700056-010
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**0.46**	J	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	**1.4**	J	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-2
Lab Code: D0700056-010
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	128	79-135	01/19/2007	
4-Bromofluorobenzene - SS	110	82-124	01/19/2007	
Dibromofluoromethane - SS	117	84-127	01/19/2007	
Toluene-d8 - SS	107	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070441.D
Lab Smp Id: D0700056-010 Client Smp ID: MWCL-2
Inj Date : 19-JAN-2007 03:38
Operator : X Inst ID: MSK.i
Smp Info : D0700056-010
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

B 01/19/07 - 1/19/07

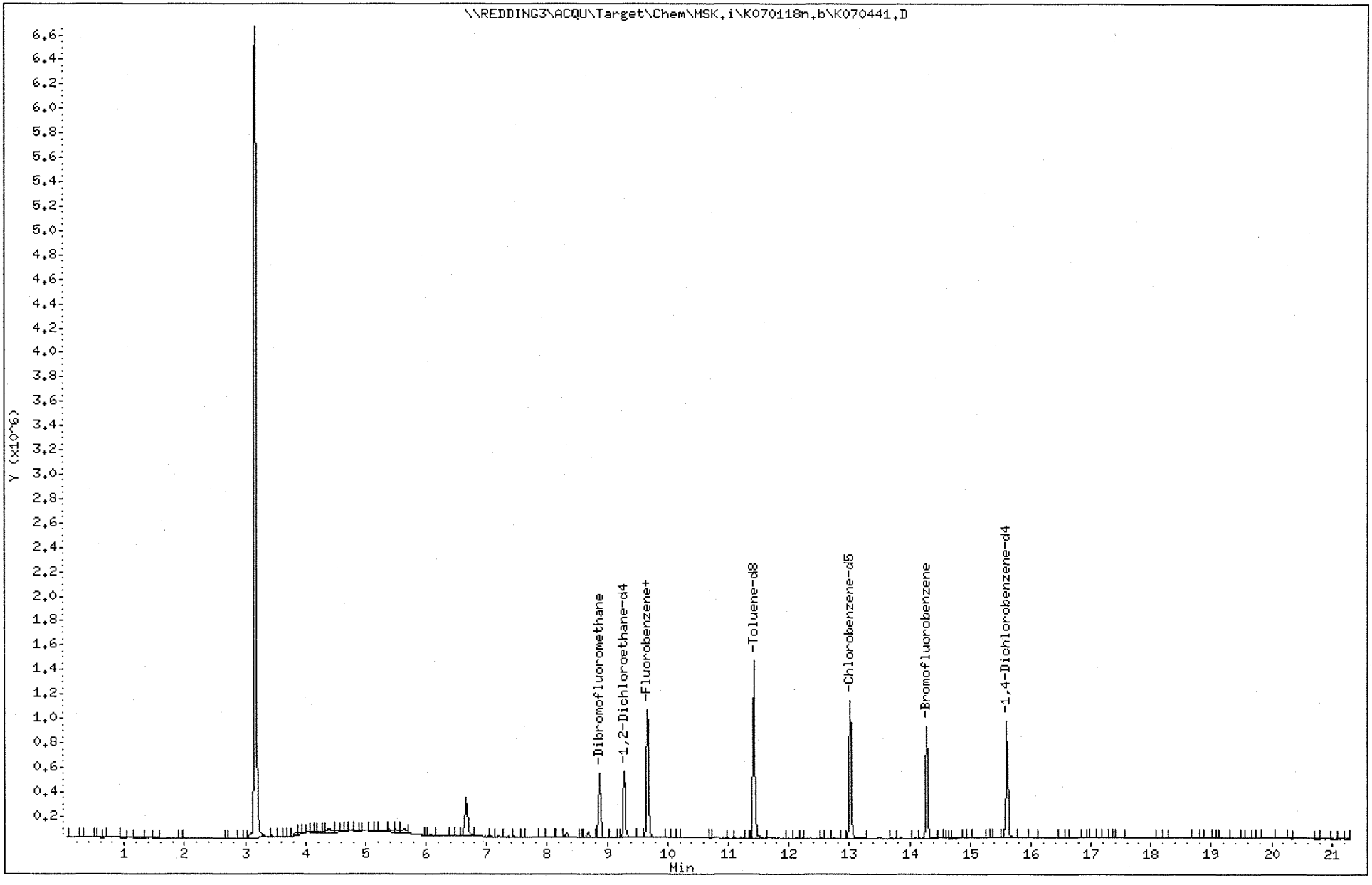
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.667	9.673	(1.000)	1109411	10.0000	
* 2 Chlorobenzene-d5	117	13.014	13.020	(1.000)	751794	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	15.602	15.593	(1.000)	308933	10.0000	
$ 4 Dibromofluoromethane	113	8.879	8.870	(0.918)	418626	11.7081	11.7
$ 5 1,2-Dichloroethane-d4	65	9.280	9.287	(0.960)	421020	12.7995	12.8
$ 6 Toluene-d8	98	11.422	11.414	(0.878)	1046315	10.7276	10.7
$ 7 Bromofluorobenzene	174	14.278	14.284	(0.915)	307761	11.0105	11.0
8 Dichlorodifluoromethane	85	Compound Not Detected.					
10 Chloromethane	50	Compound Not Detected.					
11 Vinyl chloride	62	Compound Not Detected.					
12 Bromomethane	94	4.655	4.646	(0.482)	1639	0.69537	0.695(a)
13 Chloroethane	64	Compound Not Detected.					
14 Trichlorofluoromethane	101	Compound Not Detected.					
15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene chloride	84	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
27 tert-Butylmethylether	73	Compound Not Detected.					
28 1,1-Dichloroethane	63	Compound Not Detected.					
30 Vinyl acetate	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.329	8.335	(0.862)	16766	0.45982	0.460(aQ)
35	2-Butanone	43	8.299	8.290	(0.858)	18214	1.40278	1.40(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.667	9.361	(1.000)	15242	0.36776	0.368(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070441.D
Date : 19-JAN-2007 03:38
Client ID: MWCL-2
Instrument: MSK.i
Sample Info: D0700056-010
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070441.D

Date : 19-JAN-2007 03:38

Client ID: MWCL-2

Instrument: MSK.i

Sample Info: D0700056-010

Purge Volume: 10.0

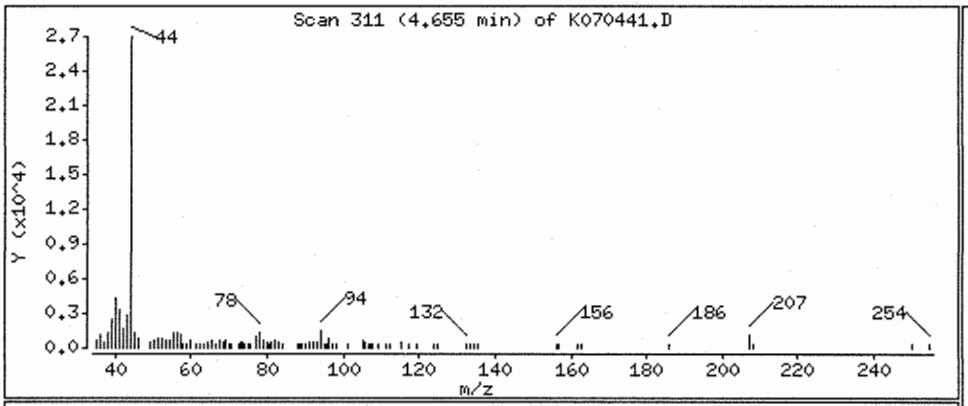
Operator: X

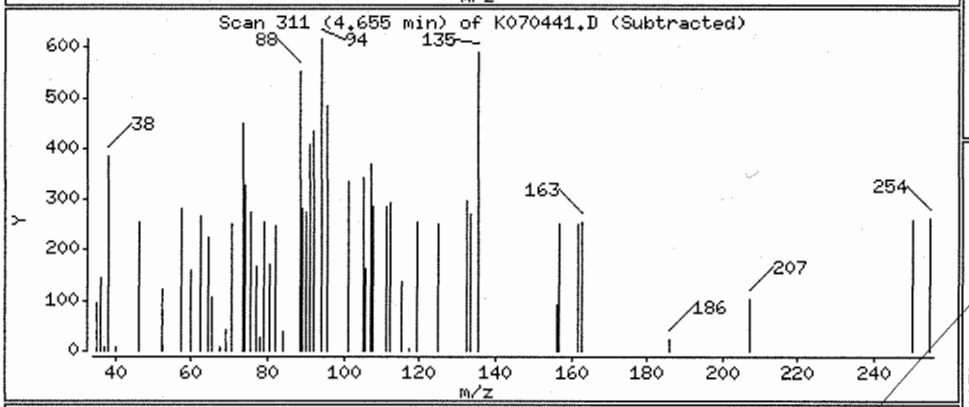
Column phase: DB-624

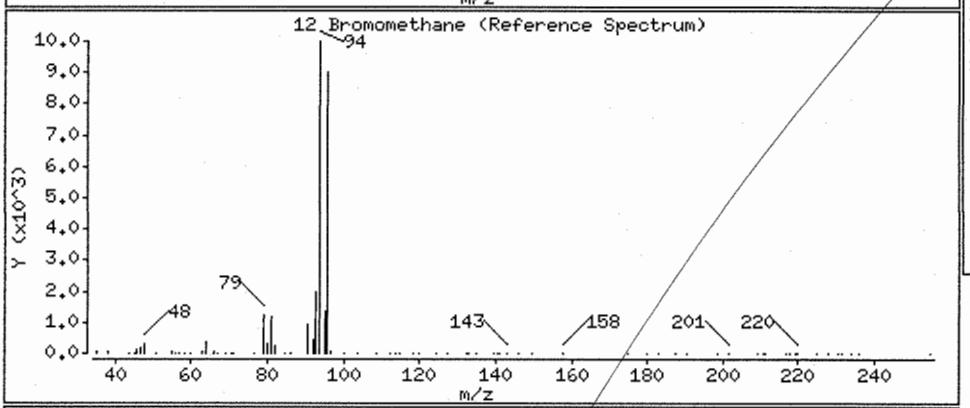
Column diameter: 0.32

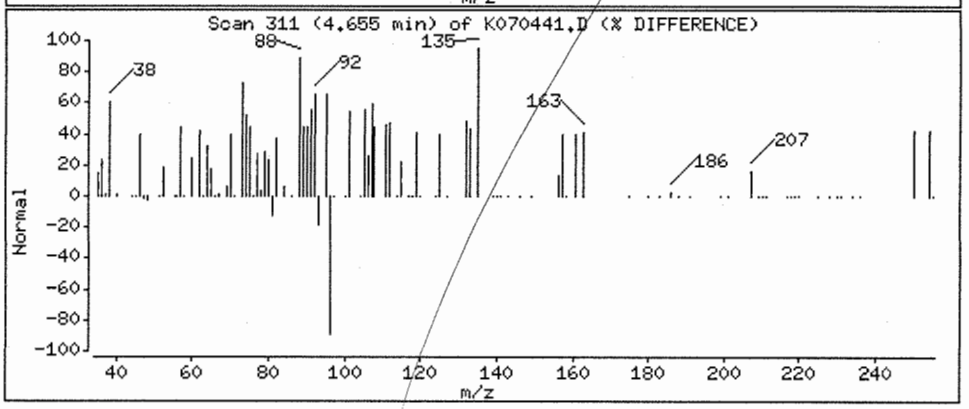
12 Bromomethane

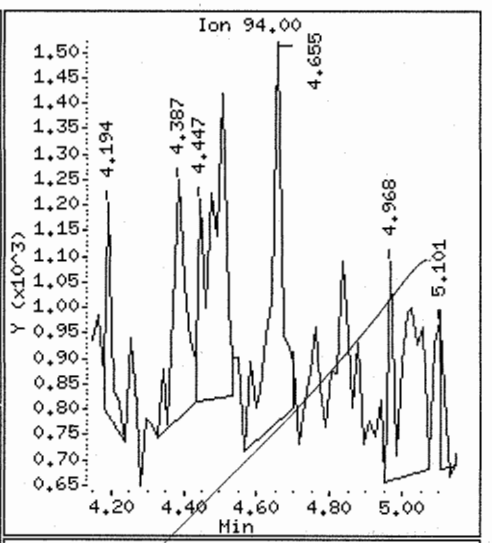
Concentration: 0.695 ug/L

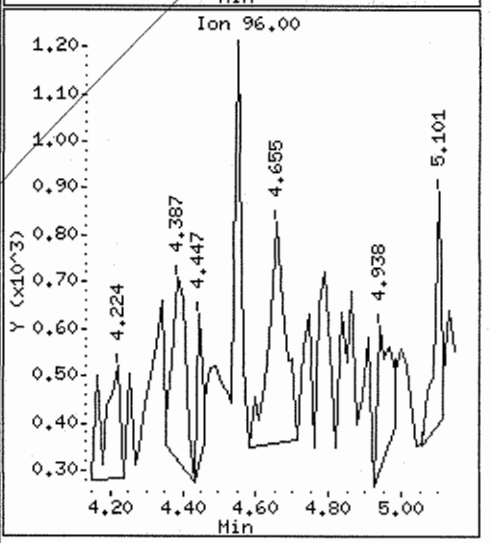












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070441.D

Date : 19-JAN-2007 03:38

Client ID: MWCL-2

Instrument: MSK.i

Sample Info: D0700056-010

Purge Volume: 10.0

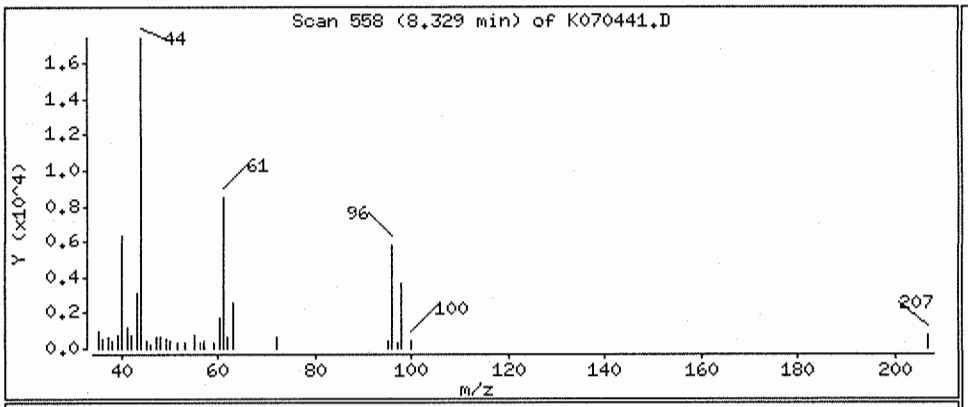
Operator: X

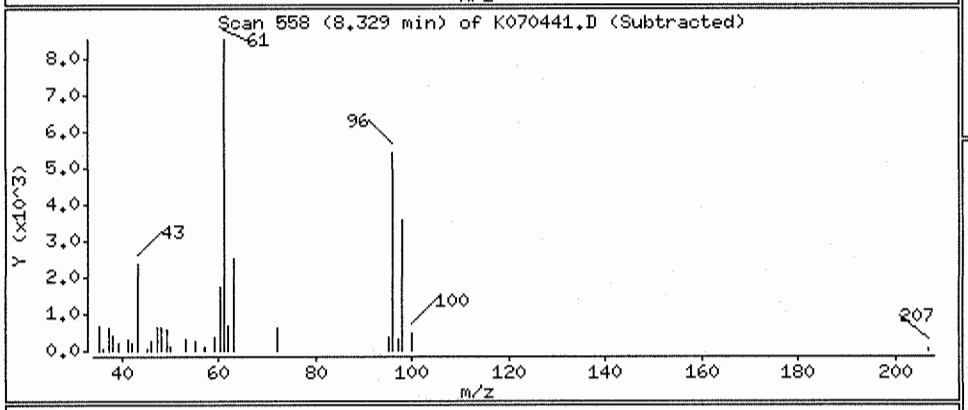
Column phase: DB-624

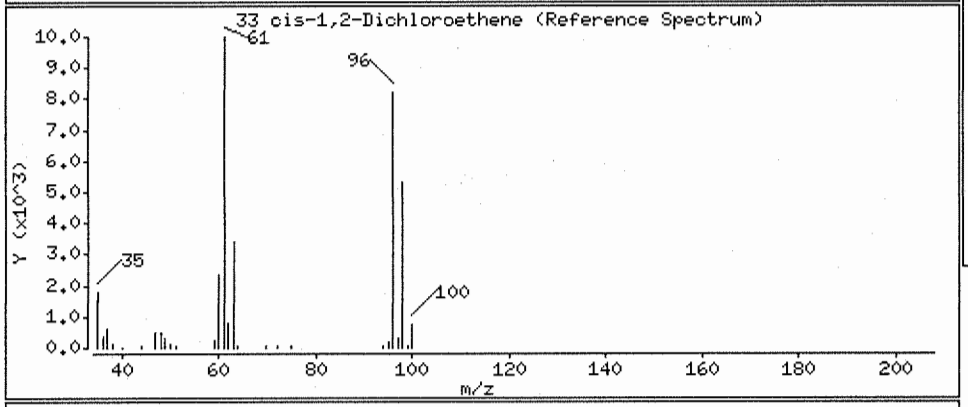
Column diameter: 0.32

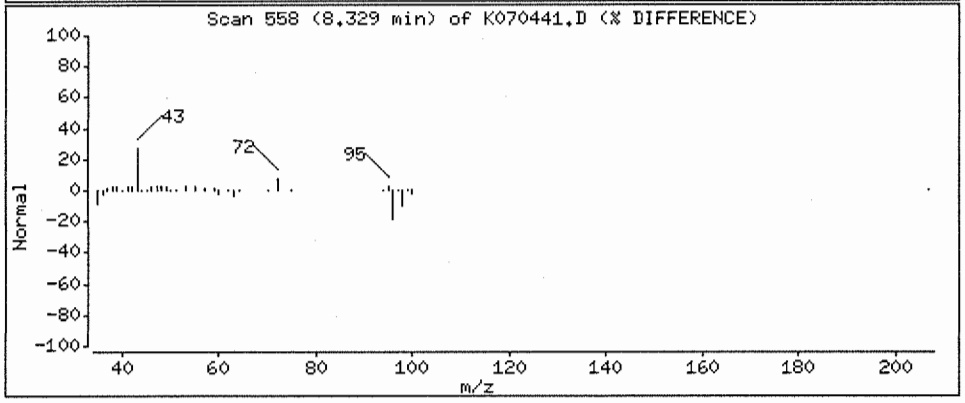
33 cis-1,2-Dichloroethene

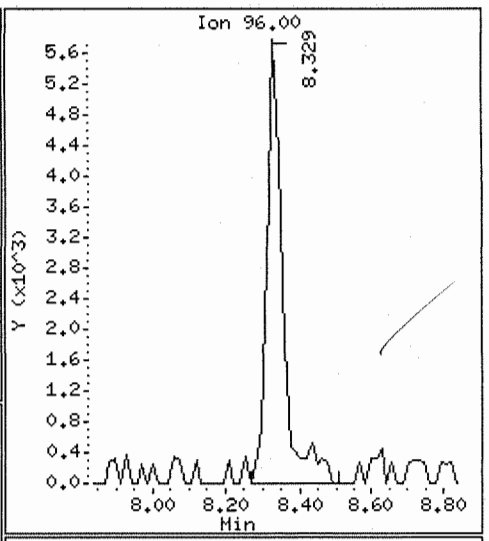
Concentration: 0.460 ug/L

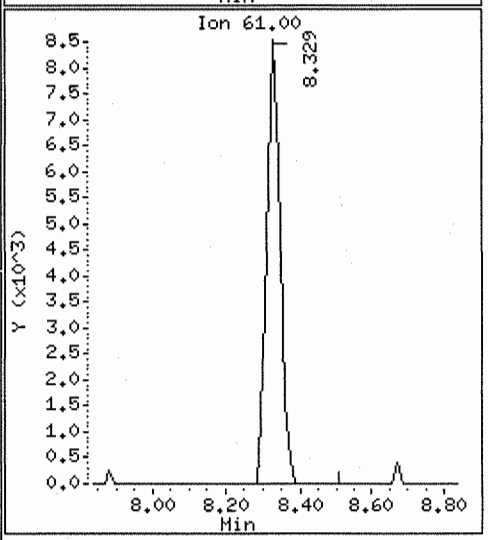












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070441.D

Date : 19-JAN-2007 03:38

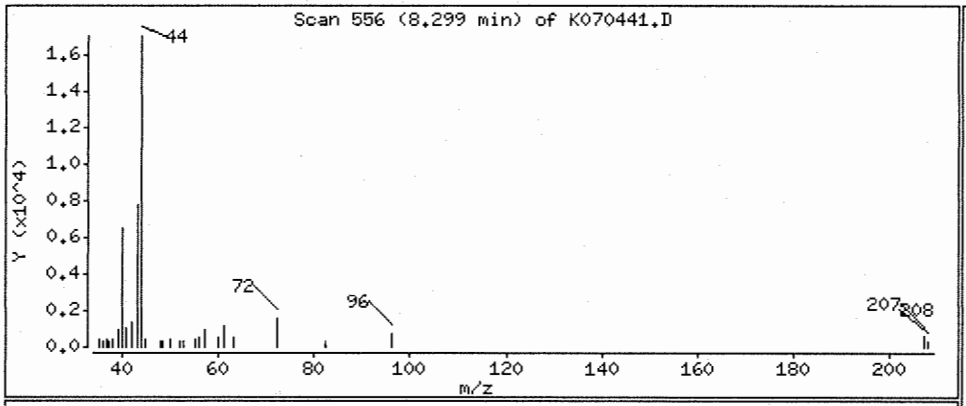
Client ID: MWCL-2 Instrument: MSK.i

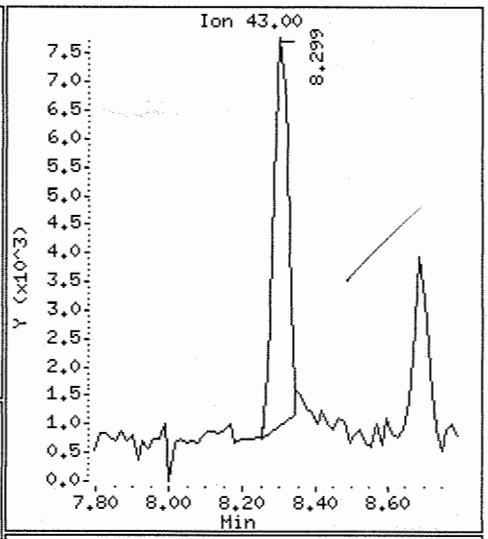
Sample Info: D0700056-010

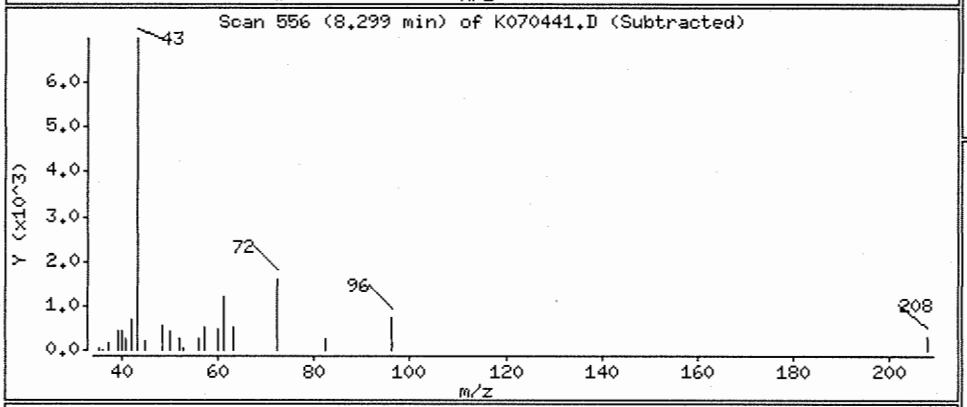
Purge Volume: 10.0 Operator: X

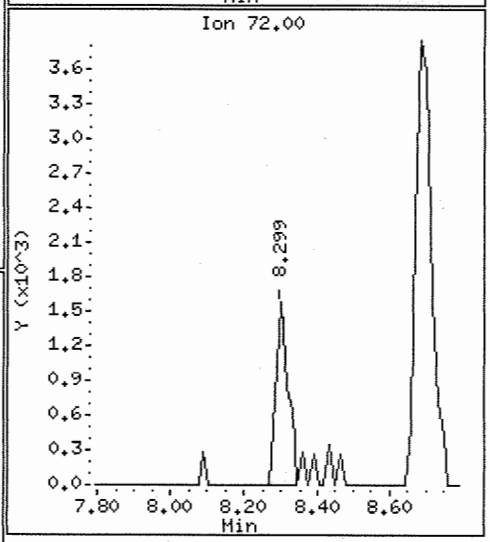
Column phase: DB-624 Column diameter: 0.32

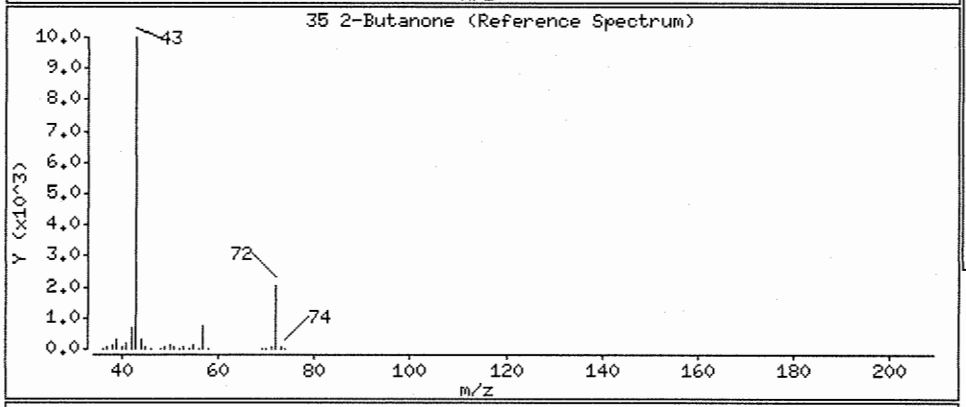
35 2-Butanone Concentration: 1.40 ug/L

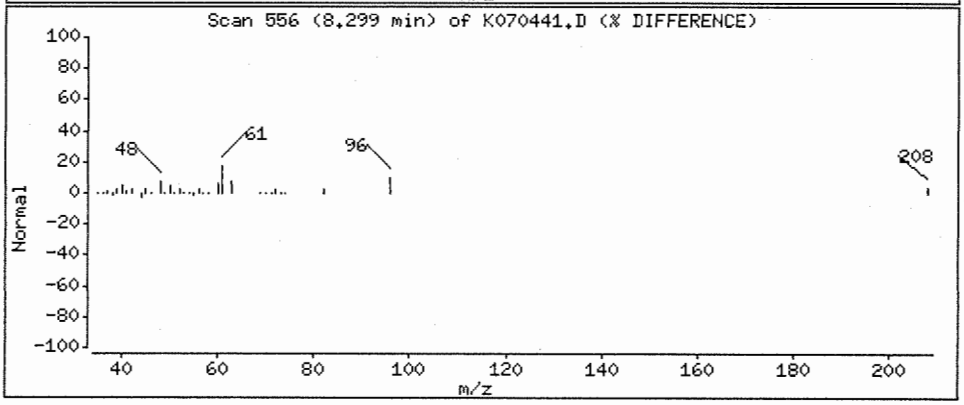












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070441.D

Date : 19-JAN-2007 03:38

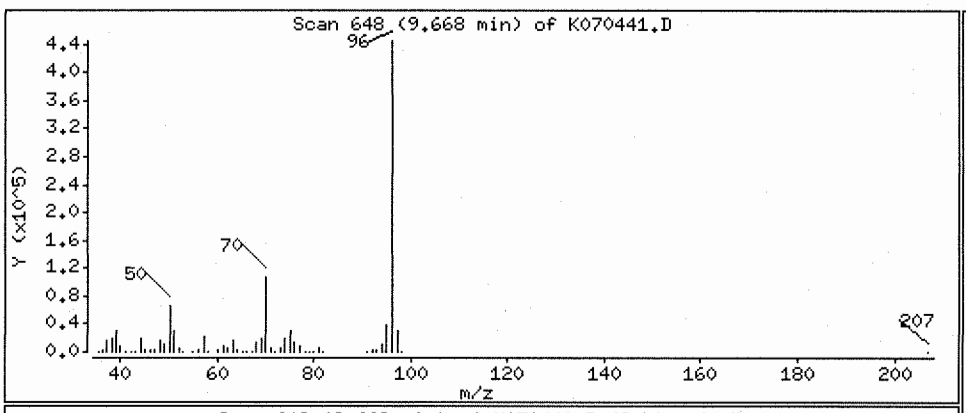
Client ID: MWCL-2 Instrument: MSK.i

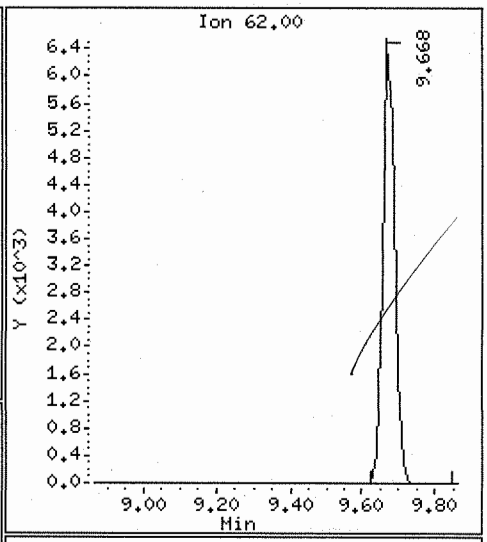
Sample Info: D0700056-010

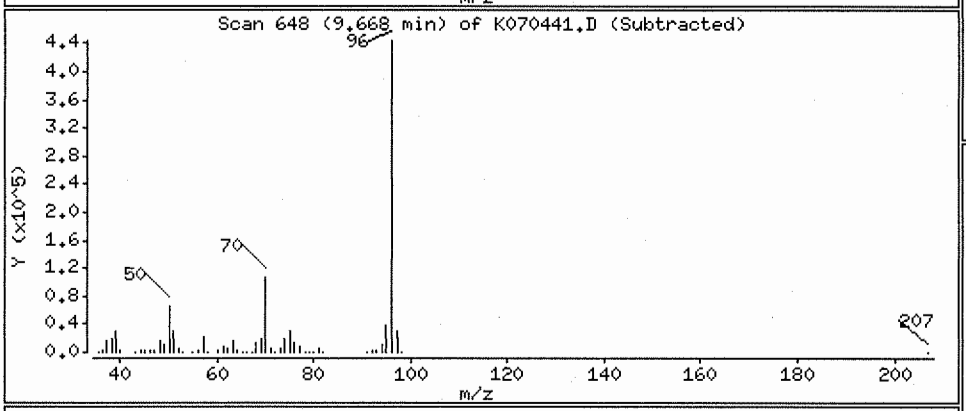
Purge Volume: 10.0 Operator: X

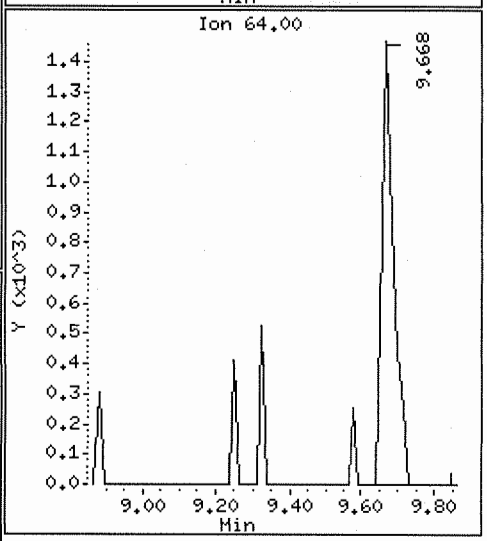
Column phase: DB-624 Column diameter: 0.32

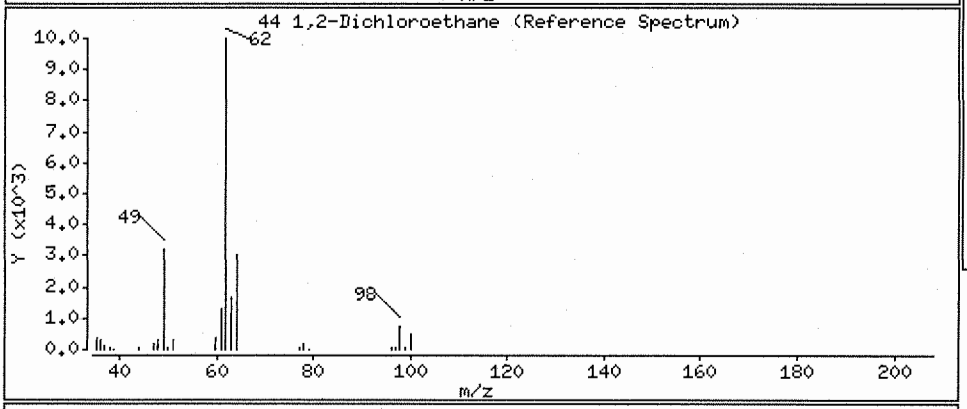
44 1,2-Dichloroethane Concentration: 0.368 ug/L

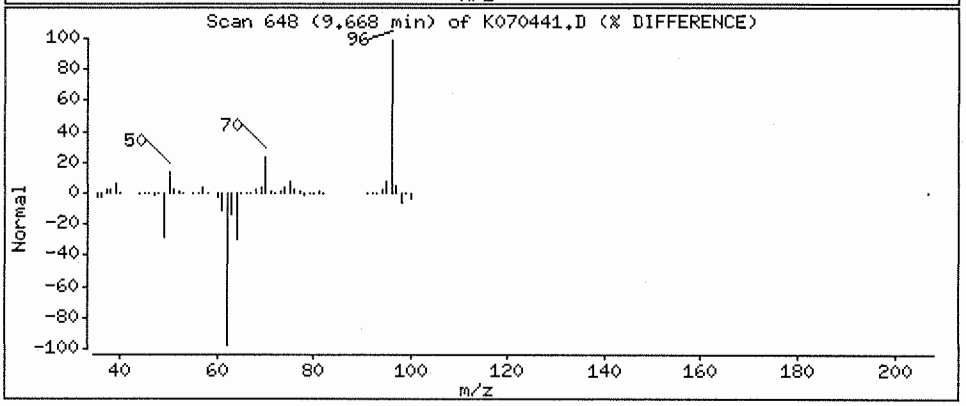












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-3
Lab Code: D0700056-011
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	**1.5**	J	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	**0.15**	J	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-3
Lab Code: D0700056-011
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	118	79-135	01/19/2007	
4-Bromofluorobenzene - SS	102	82-124	01/19/2007	
Dibromofluoromethane - SS	104	84-127	01/19/2007	
Toluene-d8 - SS	97	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070442.D
Lab Smp Id: D0700056-011 Client Smp ID: MWCL-3
Inj Date : 19-JAN-2007 04:04
Operator : X Inst ID: MSK.i
Smp Info : D0700056-011
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 44
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.670	9.673	(1.000)	1133037	10.0000	
* 2 Chlorobenzene-d5	117	13.017	13.020	(1.000)	753811	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	15.605	15.593	(1.000)	300654	10.0000	
$ 4 Dibromofluoromethane	113	8.882	8.870	(0.918)	379101	10.3816	10.4
$ 5 1,2-Dichloroethane-d4	65	9.284	9.287	(0.960)	396711	11.8090	11.8
$ 6 Toluene-d8	98	11.425	11.414	(0.878)	953269	9.74749	9.75
$ 7 Bromofluorobenzene	174	14.281	14.284	(0.915)	278409	10.2347	10.2
8 Dichlorodifluoromethane	85	Compound Not Detected.					
10 Chloromethane	50	Compound Not Detected.					
11 Vinyl chloride	62	Compound Not Detected.					
12 Bromomethane	94	4.643	4.646	(0.480)	1447	0.68406	0.684(a)
13 Chloroethane	64	4.732	4.810	(0.489)	3881	0.26284	0.263(a)
14 Trichlorofluoromethane	101	Compound Not Detected.					
15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
22 Methylene chloride	84	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
27 tert-Butylmethylether	73	Compound Not Detected.					
28 1,1-Dichloroethane	63	Compound Not Detected.					
30 Vinyl acetate	43	Compound Not Detected.					

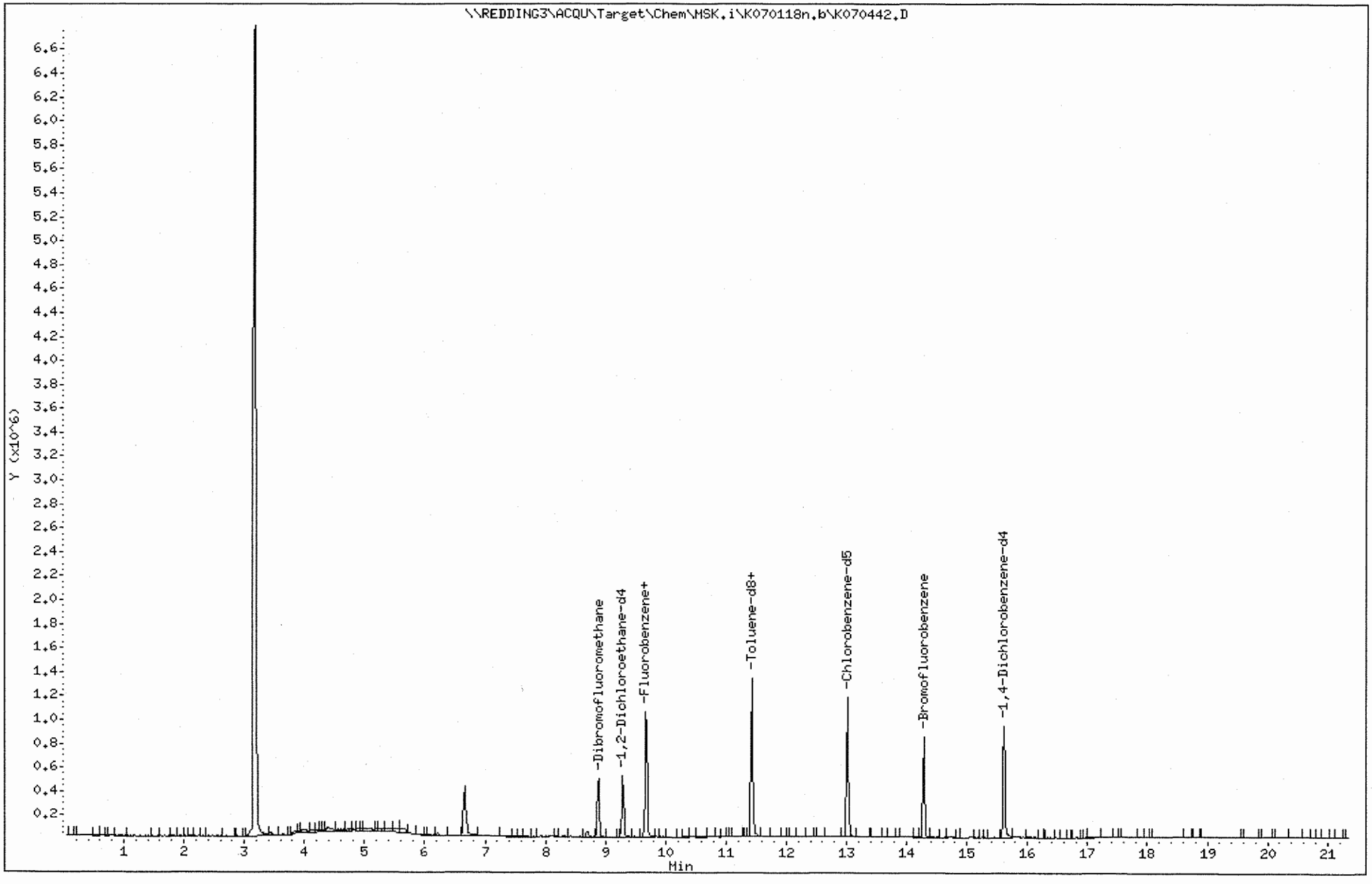
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.302	8.290	(0.858)	19772	1.49102	1.49(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.670	9.361	(1.000)	15148	0.35788	0.358(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	11.500	11.503	(0.883)	10382	0.14824	0.148(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070442.D
Date : 19-JAN-2007 04:04
Client ID: MWCL-3
Sample Info: D0700056-011
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



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Date : 19-JAN-2007 04:04

Client ID: MWCL-3

Instrument: MSK.i

Sample Info: D0700056-011

Purge Volume: 10.0

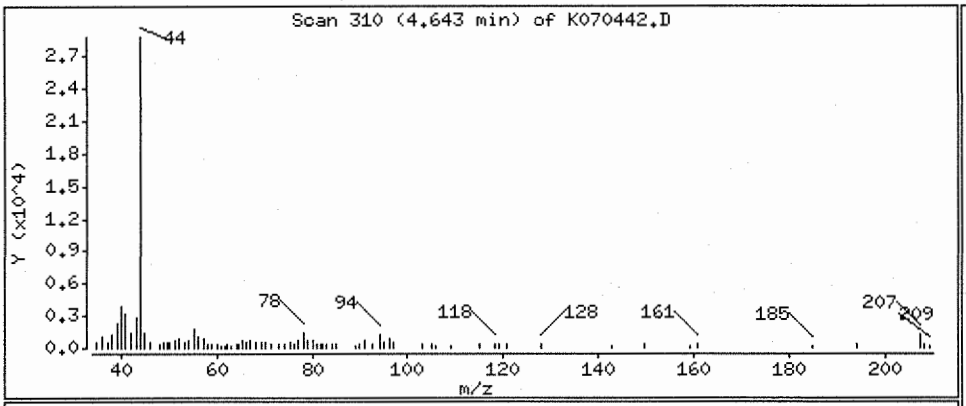
Operator: X

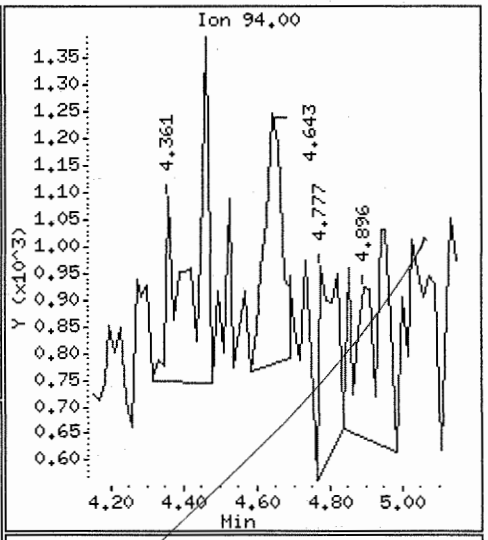
Column phase: DB-624

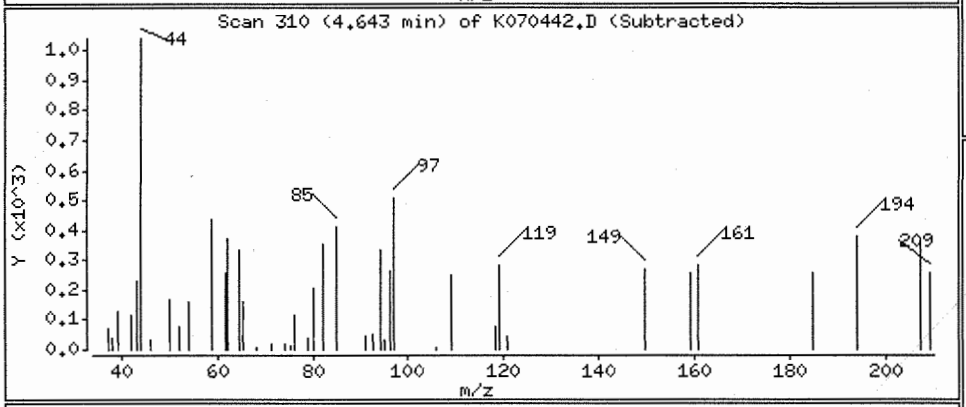
Column diameter: 0.32

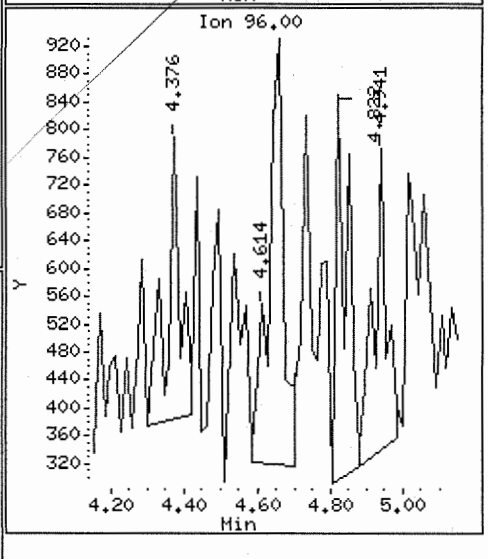
12 Bromomethane

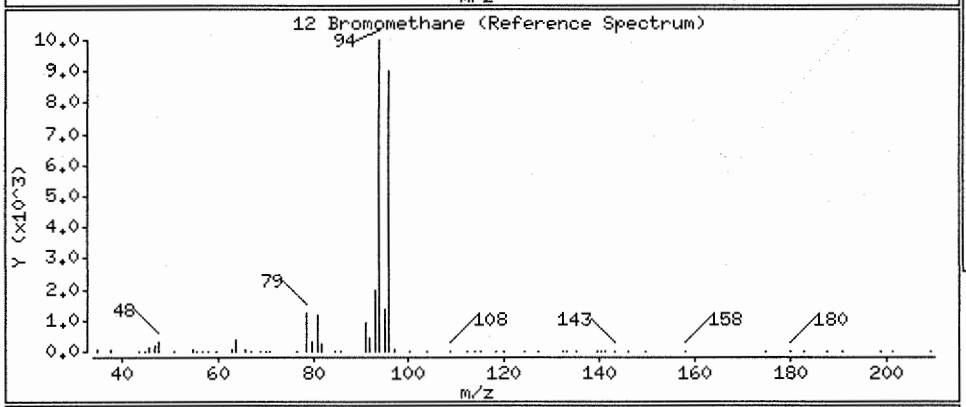
Concentration: 0.684 ug/L

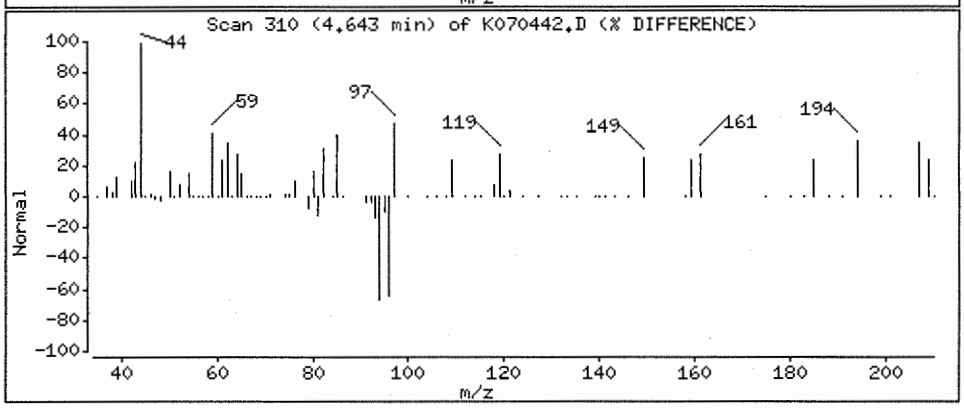












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Date : 19-JAN-2007 04:04

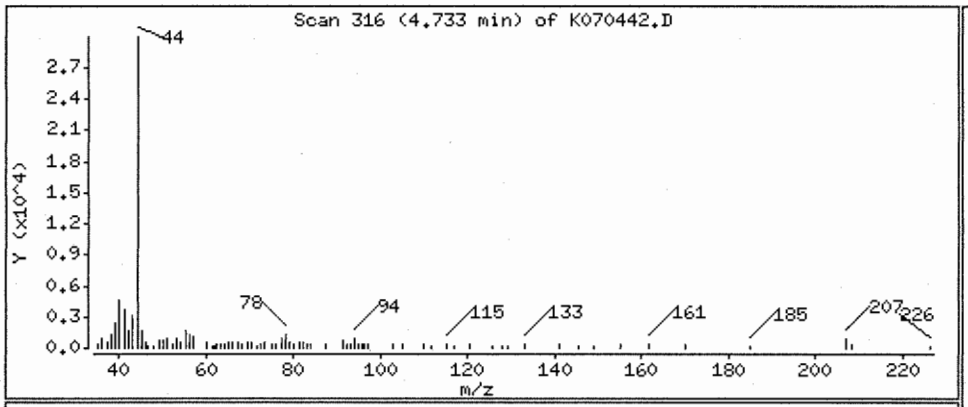
Client ID: MWCL-3 Instrument: MSK.i

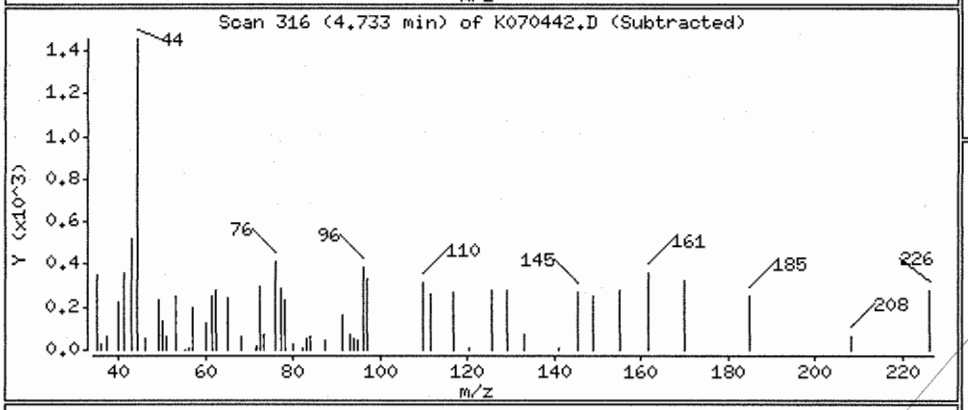
Sample Info: D0700056-011

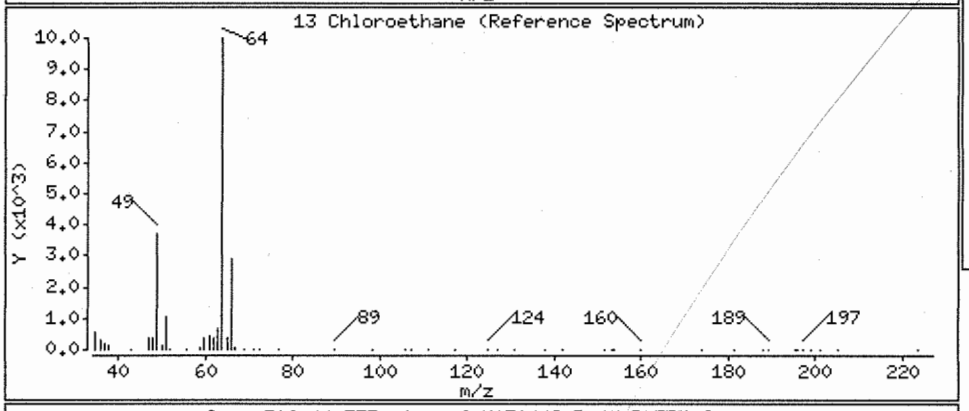
Purge Volume: 10.0 Operator: X

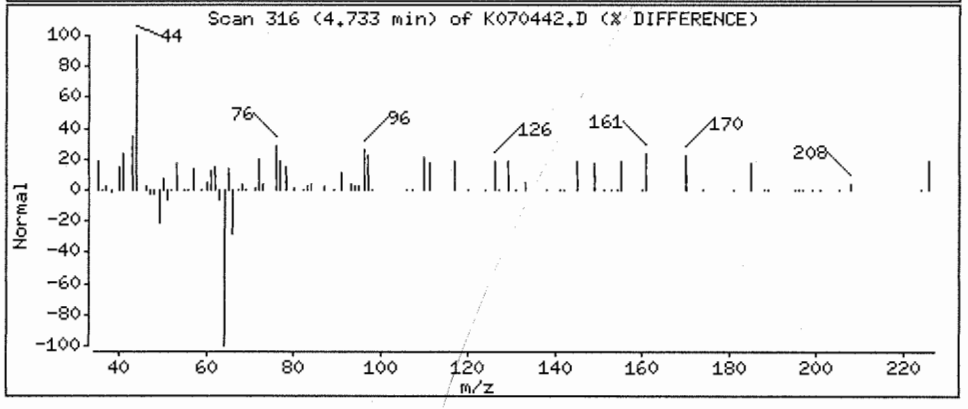
Column phase: DB-624 Column diameter: 0.32

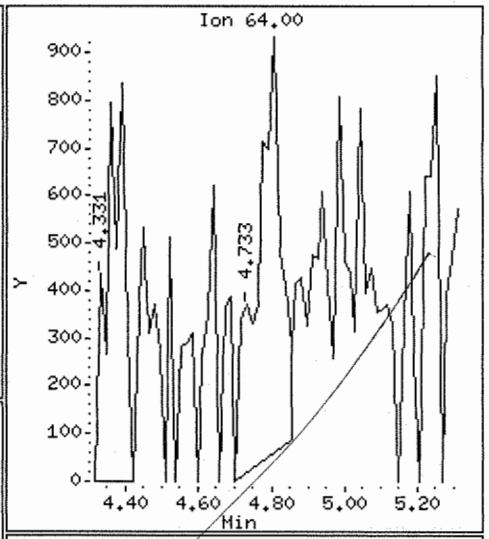
13 Chloroethane Concentration: 0.263 ug/L

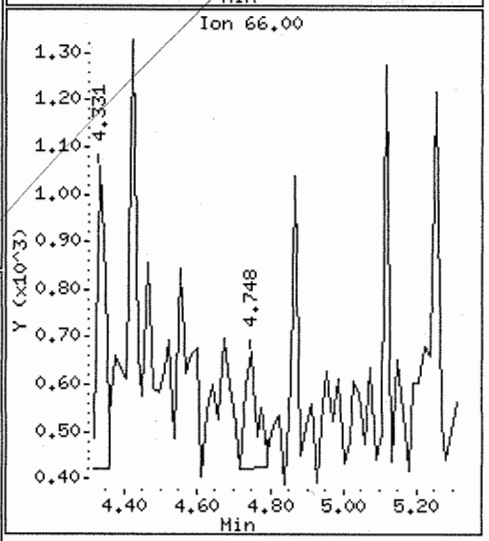












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070442.D

Date : 19-JAN-2007 04:04

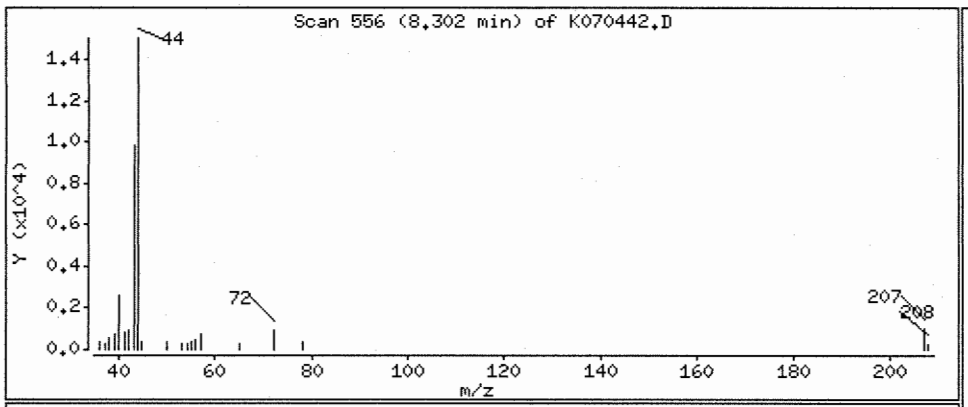
Client ID: MWCL-3 Instrument: MSK.i

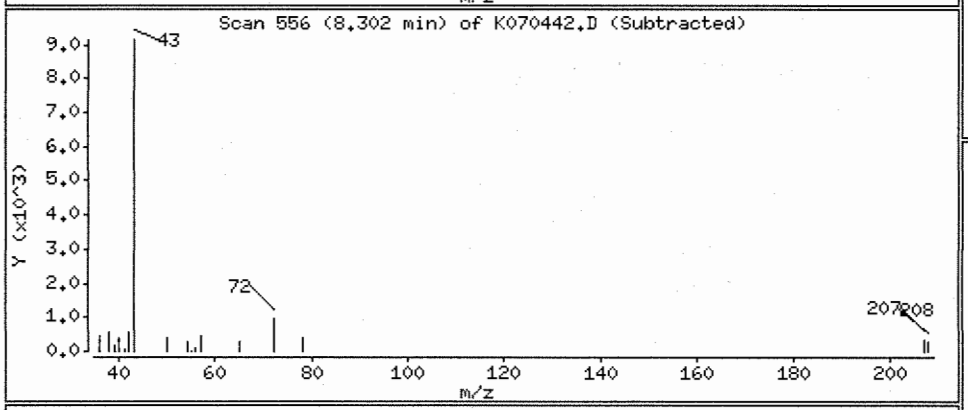
Sample Info: D0700056-011

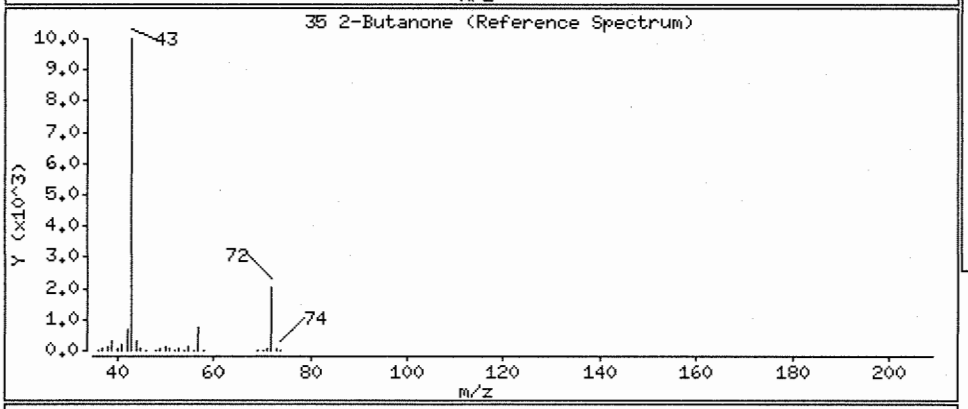
Purge Volume: 10.0 Operator: X

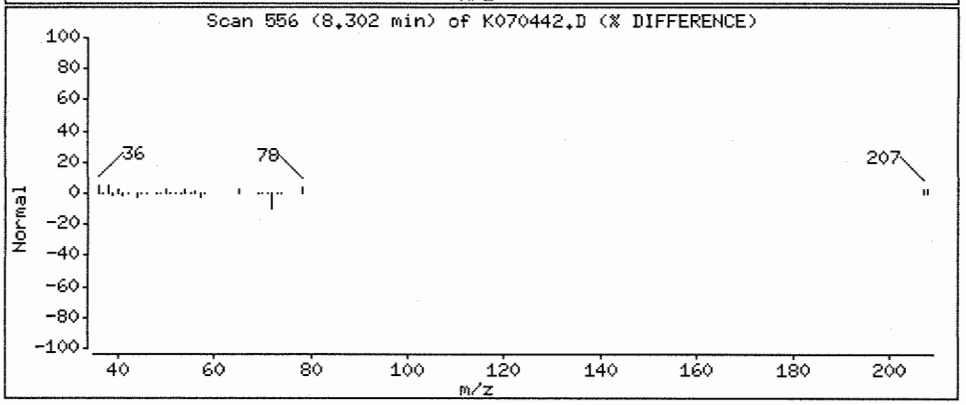
Column phase: DB-624 Column diameter: 0.32

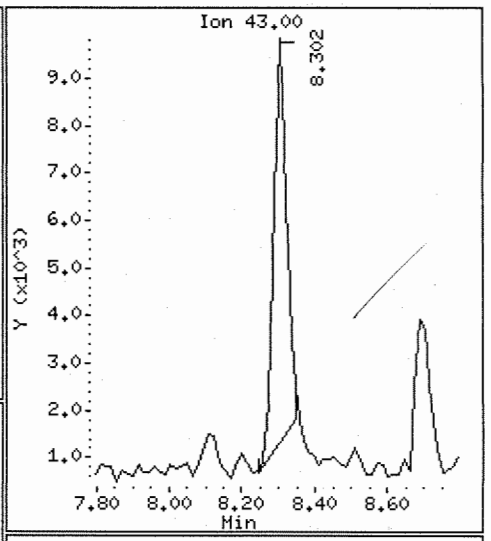
35 2-Butanone Concentration: 1.49 ug/L

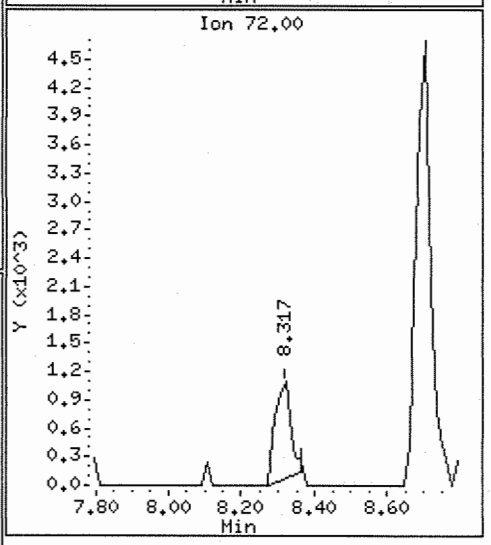












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070442.D

Date : 19-JAN-2007 04:04

Client ID: MWCL-3

Instrument: MSK.i

Sample Info: D0700056-011

Purge Volume: 10.0

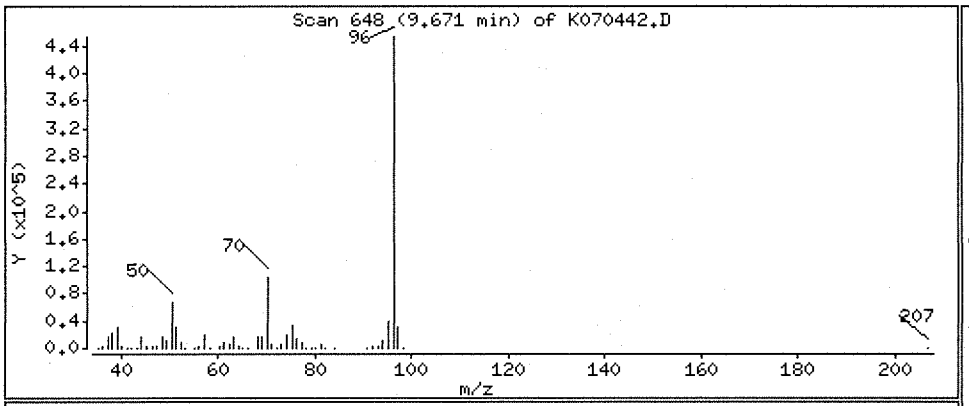
Operator: X

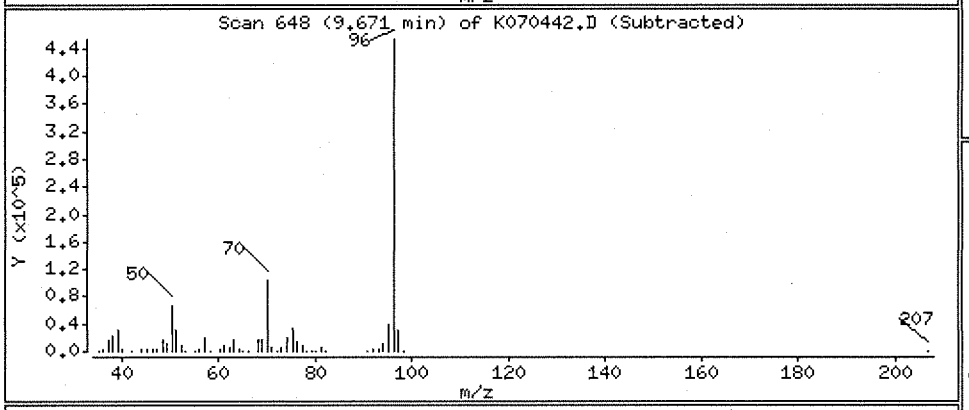
Column phase: DB-624

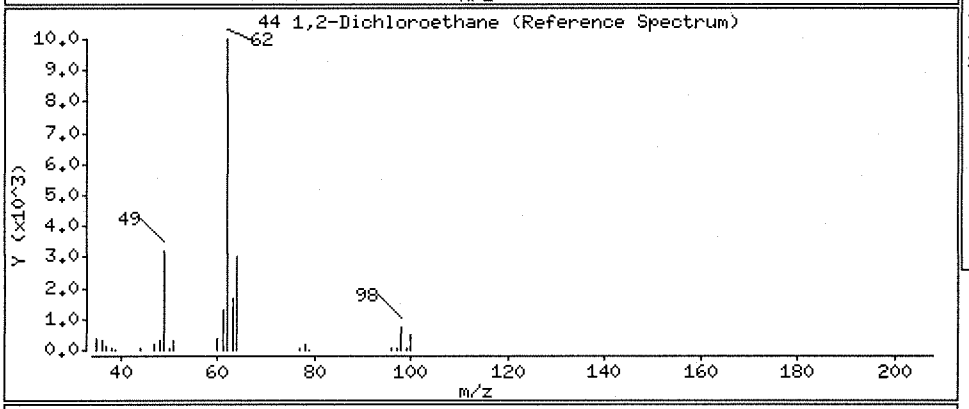
Column diameter: 0.32

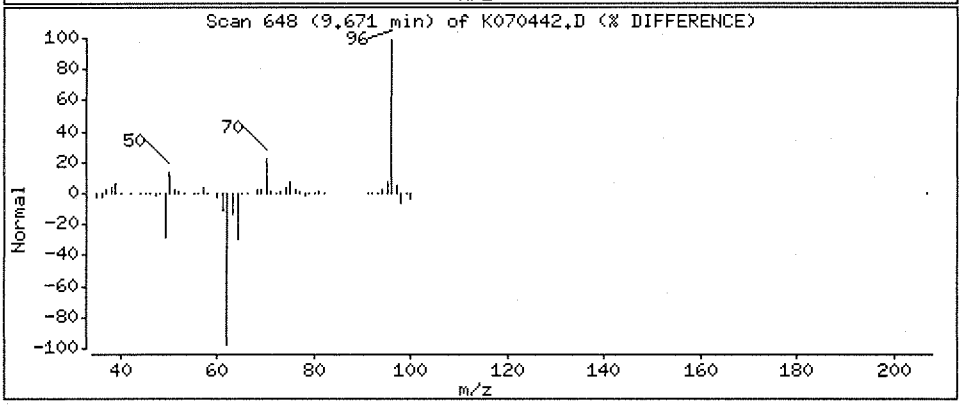
44 1,2-Dichloroethane

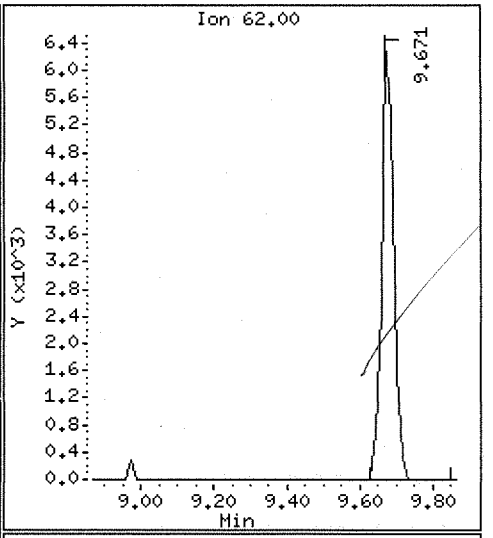
Concentration: 0.358 ug/L

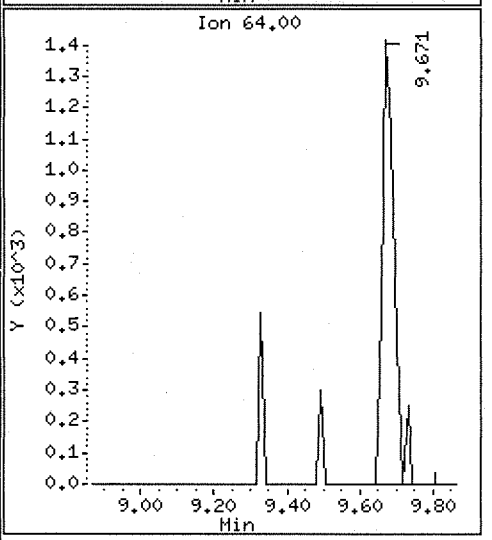












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Date : 19-JAN-2007 04:04

Client ID: MWCL-3

Instrument: MSK.i

Sample Info: D0700056-011

Purge Volume: 10.0

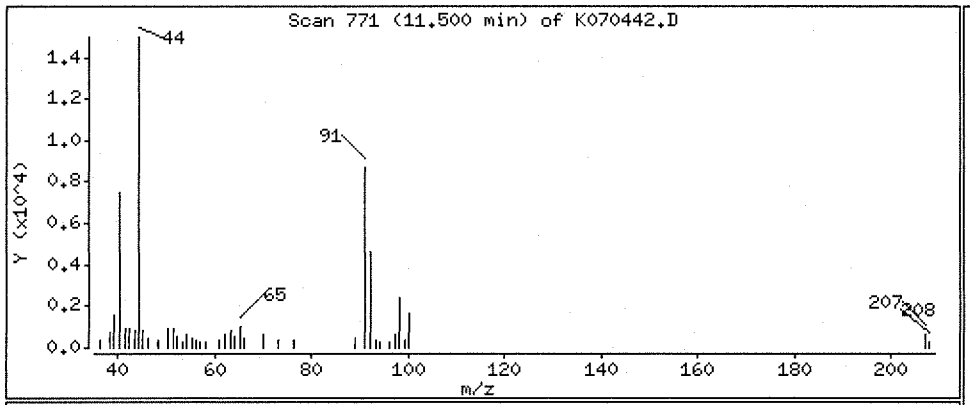
Operator: X

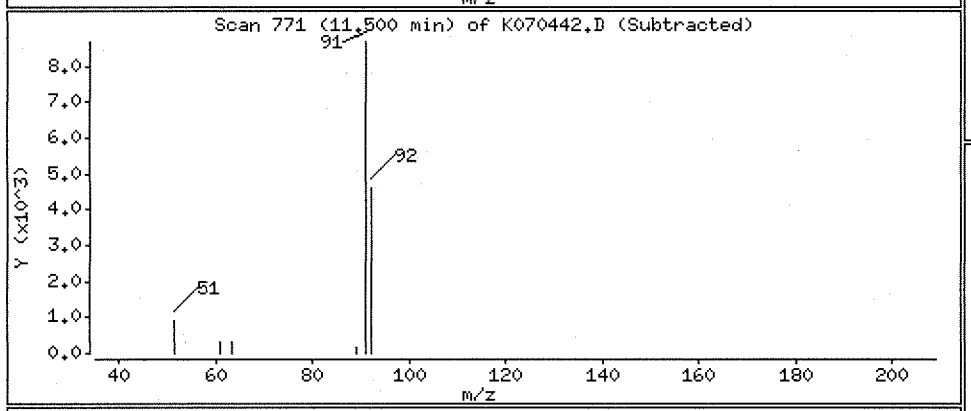
Column phase: DB-624

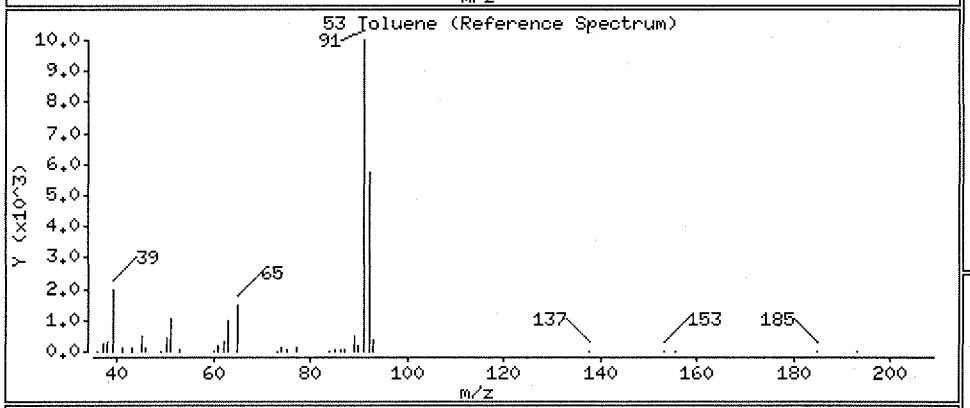
Column diameter: 0.32

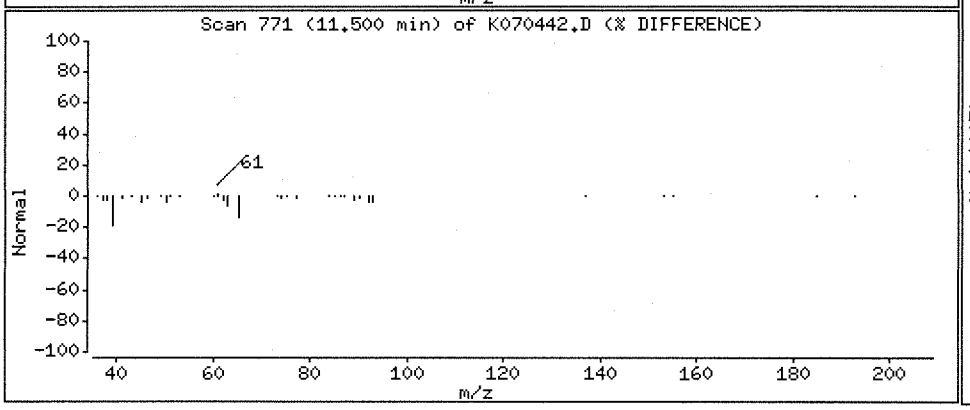
53 Toluene

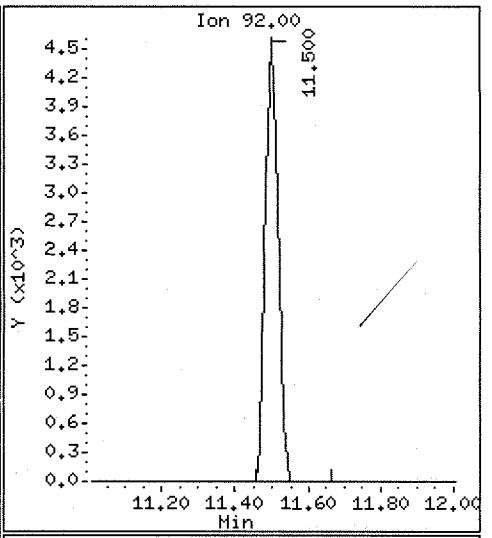
Concentration: 0.148 ug/L

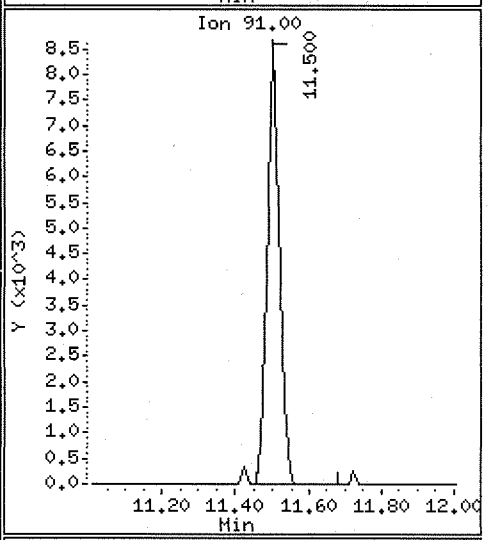


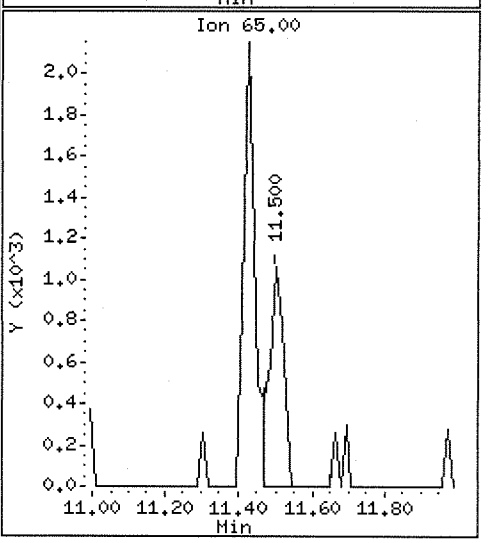












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-4
Lab Code: D0700056-012
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	**1.4**	J	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-4
Lab Code: D0700056-012
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	112	79-135	01/19/2007	
4-Bromofluorobenzene - SS	104	82-124	01/19/2007	
Dibromofluoromethane - SS	106	84-127	01/19/2007	
Toluene-d8 - SS	101	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070443.D
Lab Smp Id: D0700056-012 Client Smp ID: MWCL-4
Inj Date : 19-JAN-2007 04:31
Operator : X Inst ID: MSK.i
Smp Info : D0700056-012
Misc Info :
Comment :
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Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8 01/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.682	9.673	(1.000)	1172663	10.0000	
* 2	Chlorobenzene-d5	117	13.029	13.020	(1.000)	766101	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.602	15.593	(1.000)	309551	10.0000	
$ 4	Dibromofluoromethane	113	8.879	8.870	(0.917)	401777	10.6308	10.6
$ 5	1,2-Dichloroethane-d4	65	9.281	9.287	(0.959)	388690	11.1792	11.2
$ 6	Toluene-d8	98	11.422	11.414	(0.877)	1008356	10.1454	10.1
$ 7	Bromofluorobenzene	174	14.293	14.284	(0.916)	291537	10.4092	10.4
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.595	4.646	(0.475)	504	0.63622	0.636(a)
13	Chloroethane	64	5.131	4.810	(0.530)	3394	0.22209	0.222(a)
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

TL 1/19/7

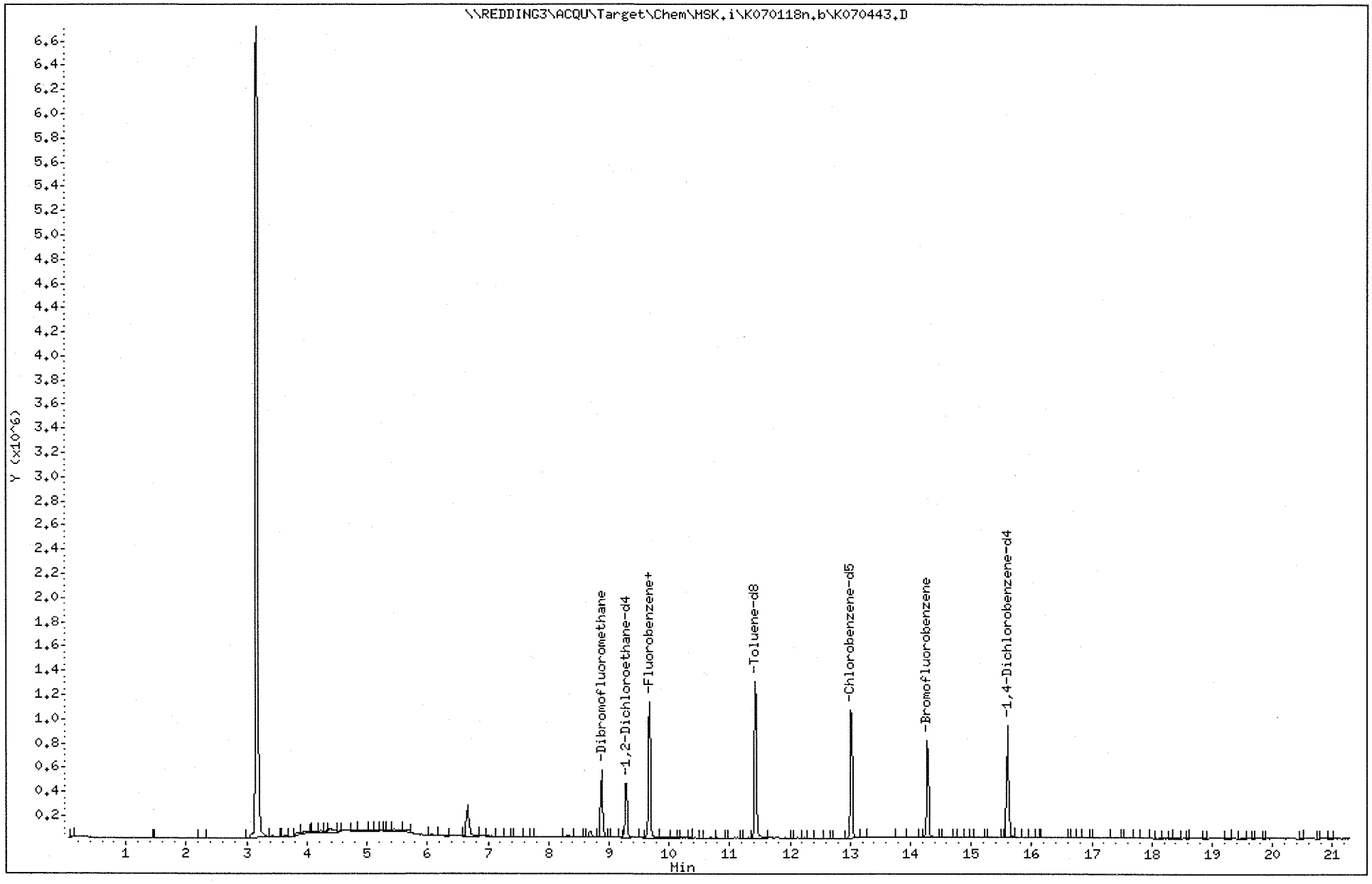
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.299	8.290	(0.857)	19420	1.41499	1.41(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.682	9.361	(1.000)	16703	0.38128	0.381(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070443.D
Date : 19-JAN-2007 04:31
Client ID: MWCL-4
Sample Info: D0700056-012
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



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Date : 19-JAN-2007 04:31

Client ID: MWCL-4

Instrument: MSK.i

Sample Info: D0700056-012

Purge Volume: 10.0

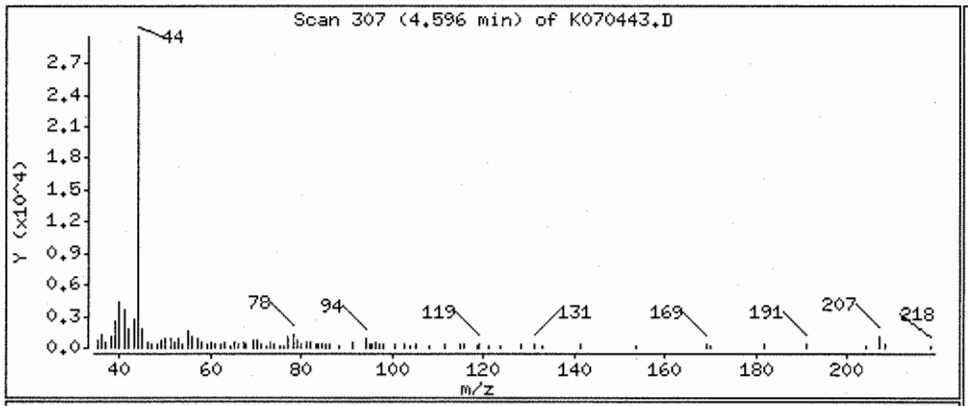
Operator: X

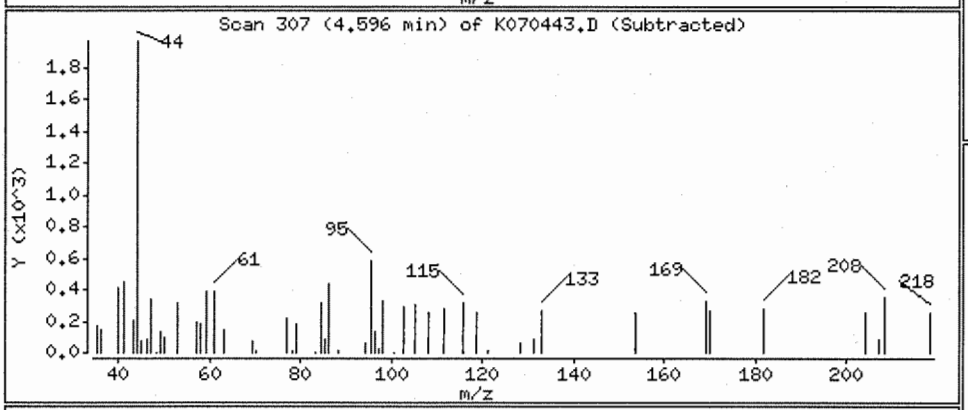
Column phase: DB-624

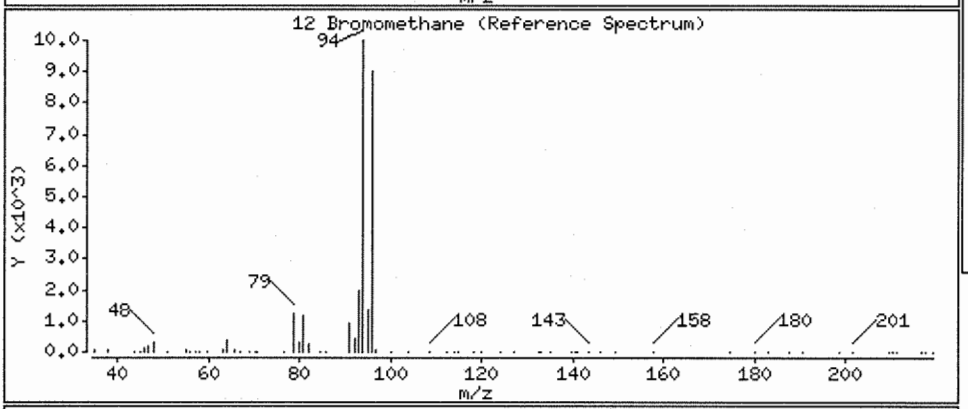
Column diameter: 0.32

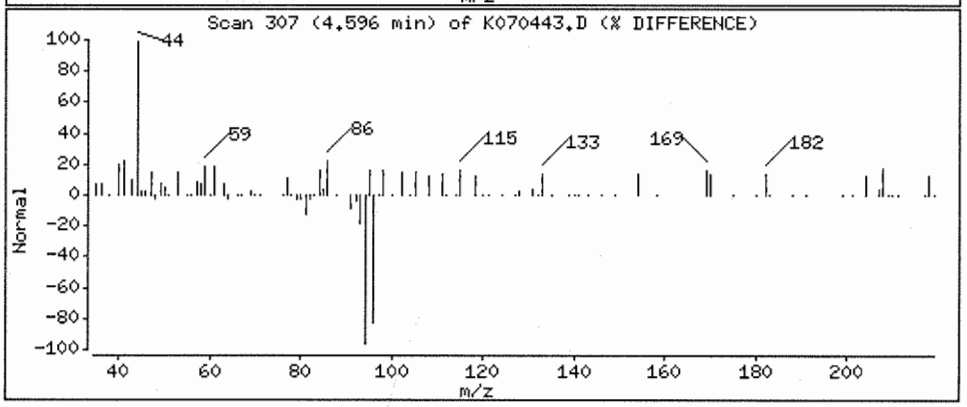
12 Bromomethane

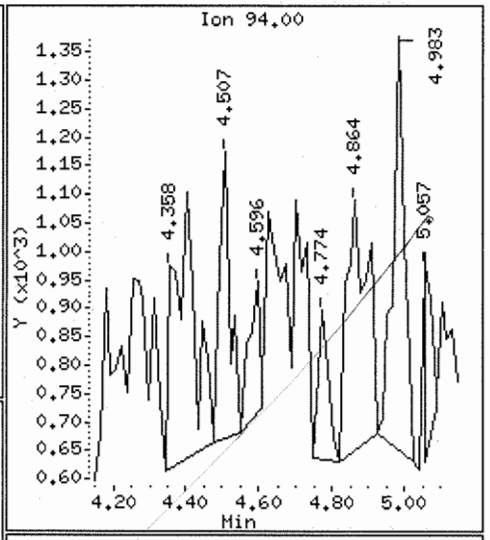
Concentration: 0.636 ug/L

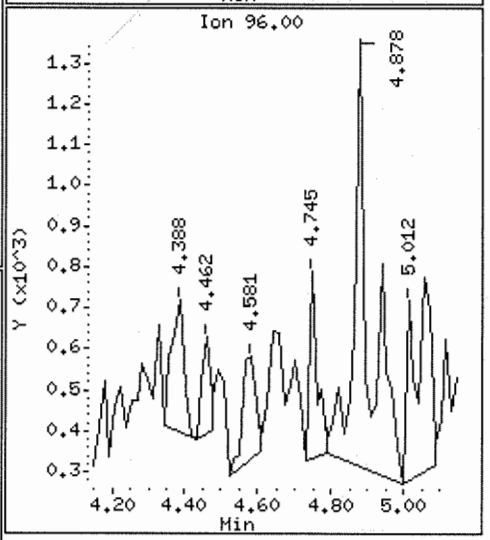












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070443.D

Date : 19-JAN-2007 04:31

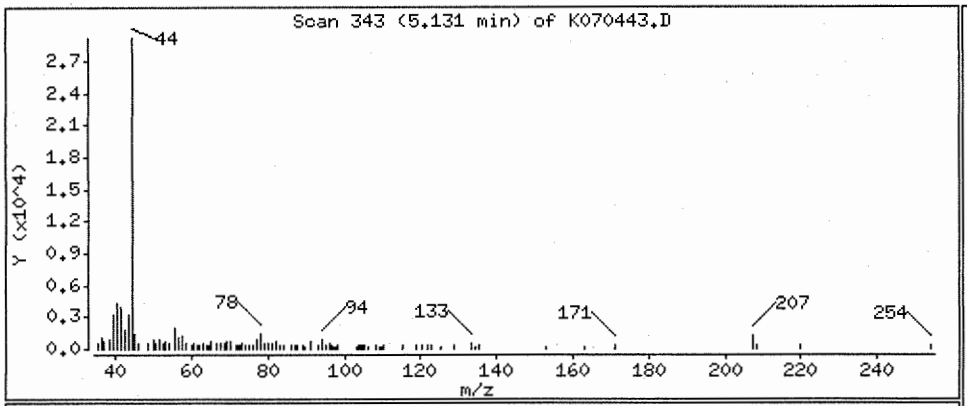
Client ID: MWCL-4 Instrument: MSK.i

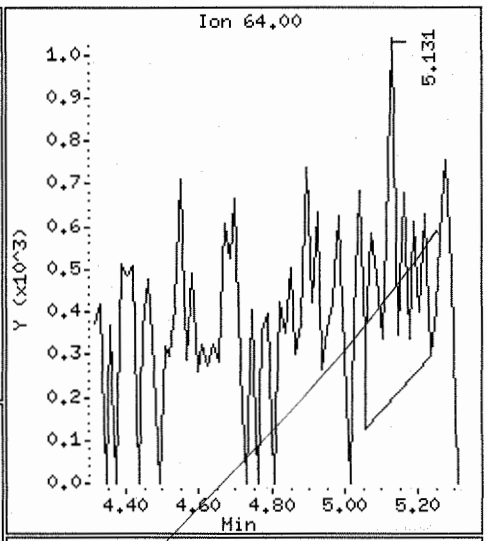
Sample Info: D0700056-012

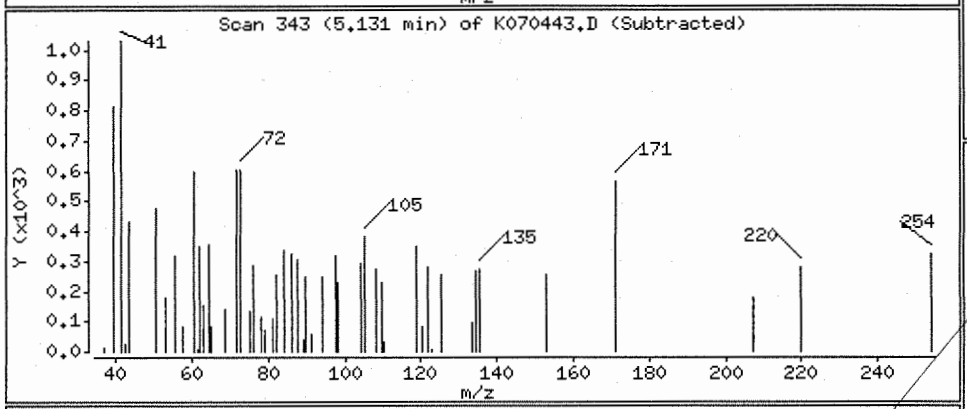
Purge Volume: 10.0 Operator: X

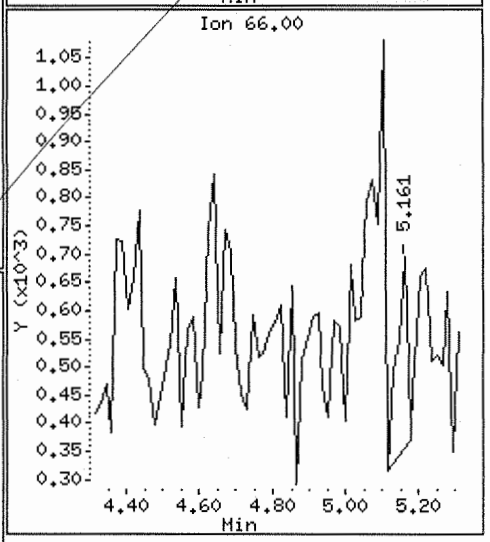
Column phase: DB-624 Column diameter: 0.32

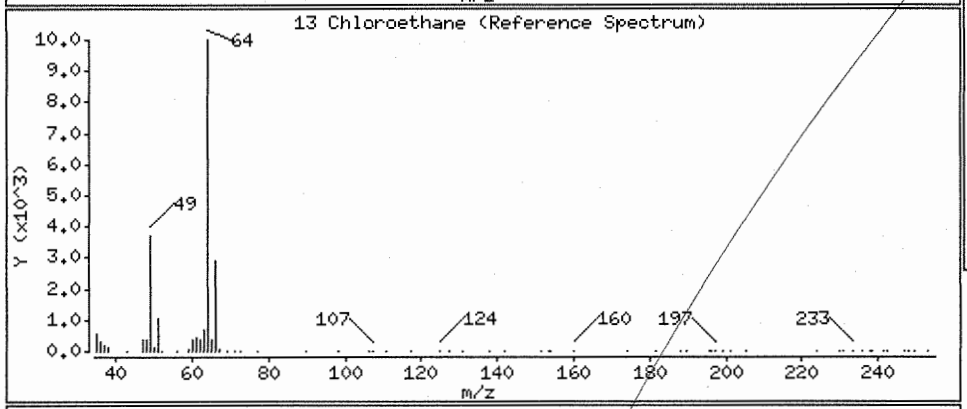
13 Chloroethane Concentration: 0.222 ug/L

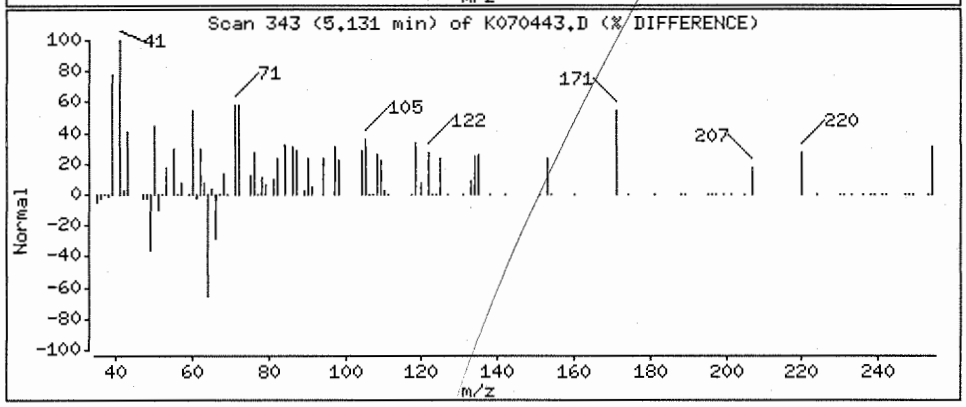












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Date : 19-JAN-2007 04:31

Client ID: MWCL-4

Instrument: MSK.i

Sample Info: D0700056-012

Purge Volume: 10.0

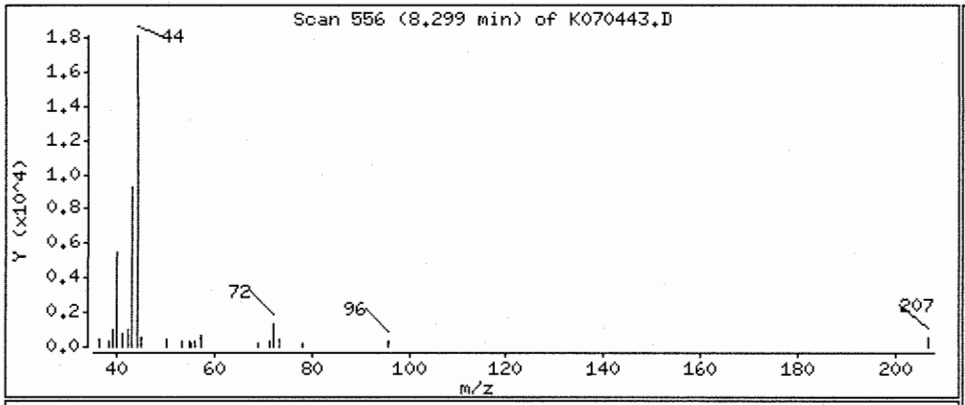
Operator: X

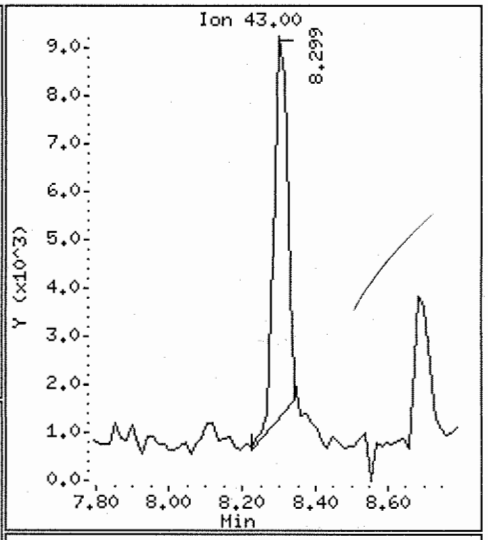
Column phase: DB-624

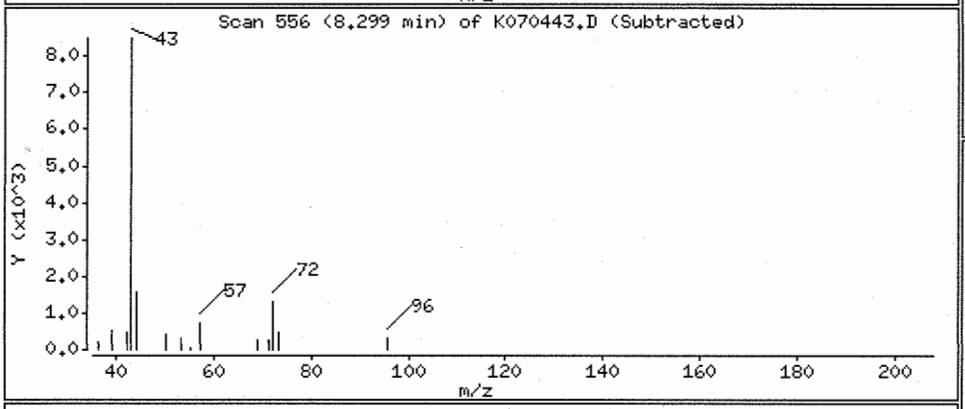
Column diameter: 0.32

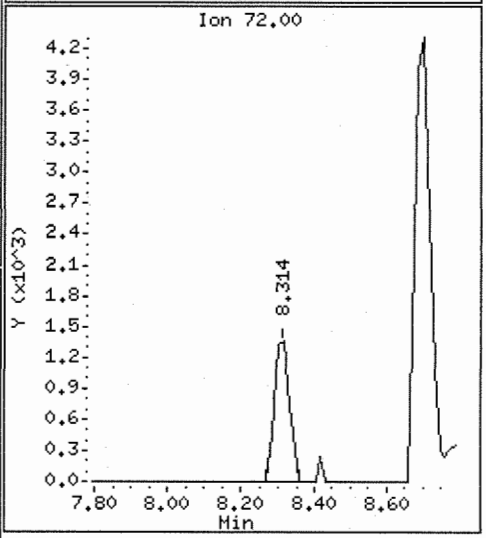
35 2-Butanone

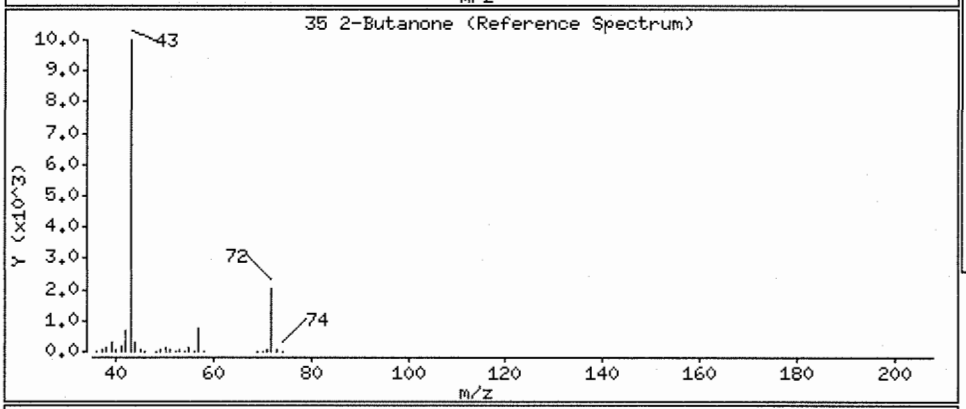
Concentration: 1.41 ug/L

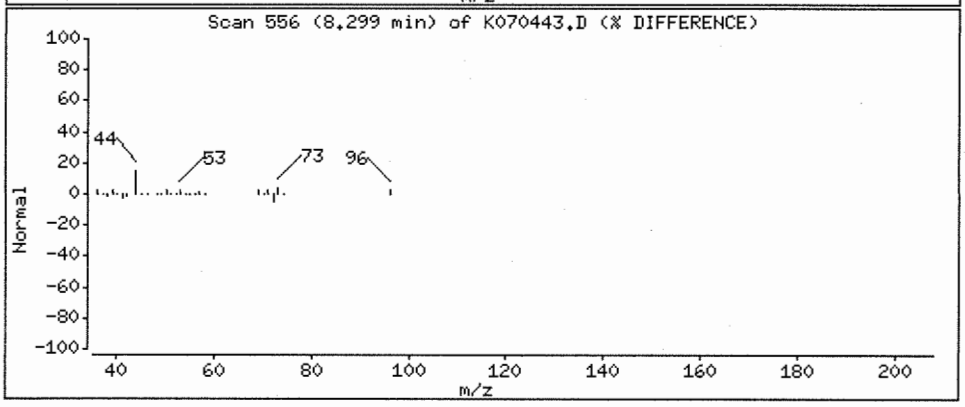












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070443.D

Date : 19-JAN-2007 04:31

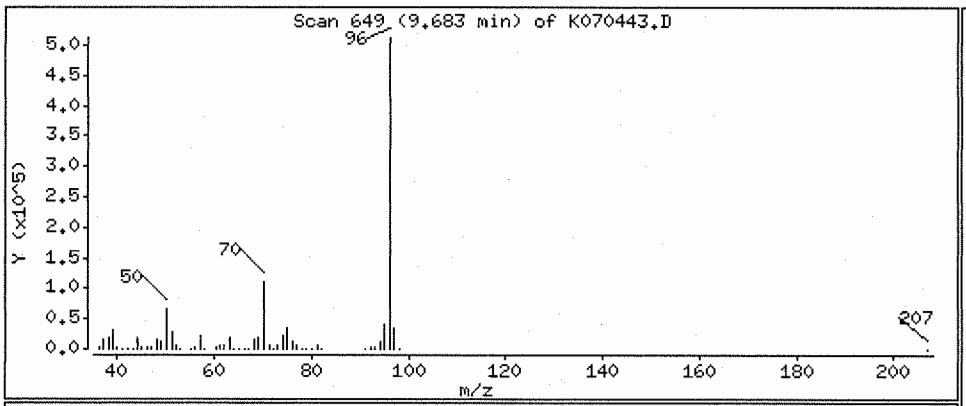
Client ID: MWCL-4 Instrument: MSK.i

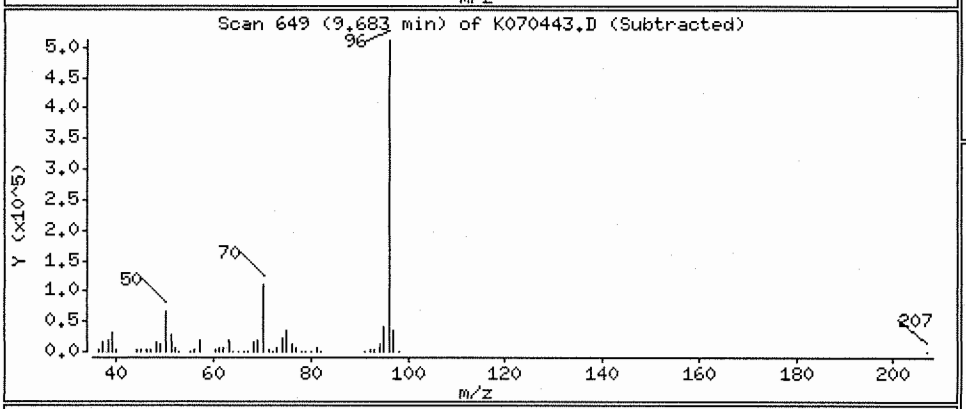
Sample Info: D0700056-012

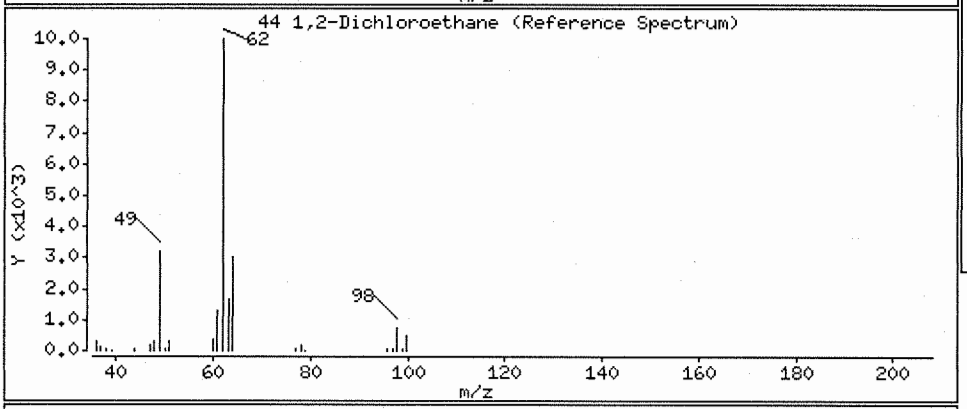
Purge Volume: 10.0 Operator: X

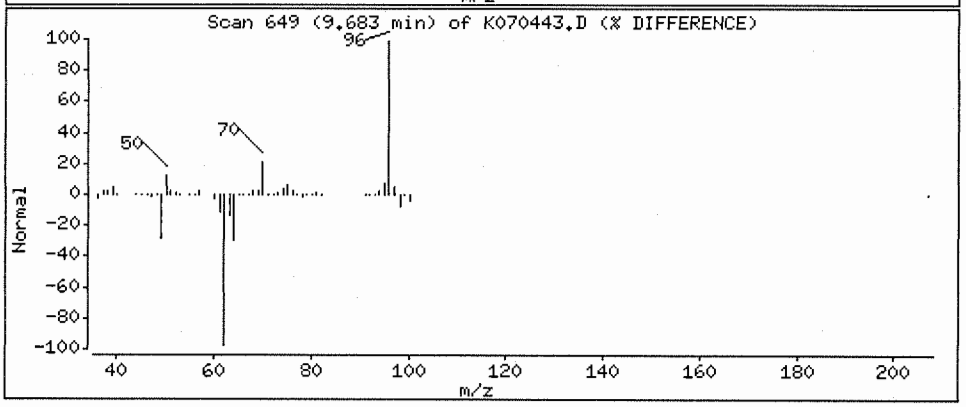
Column phase: DB-624 Column diameter: 0.32

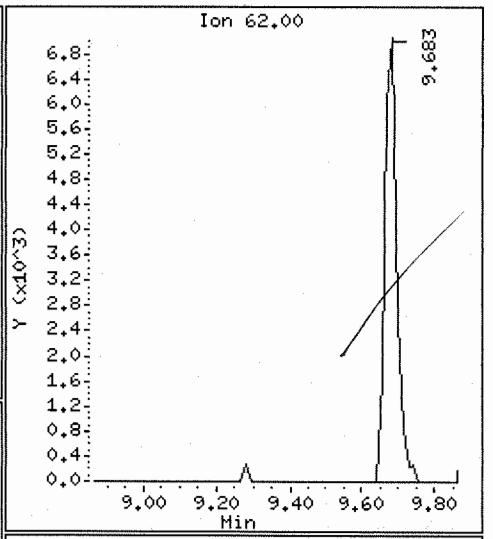
44 1,2-Dichloroethane Concentration: 0.381 ug/L

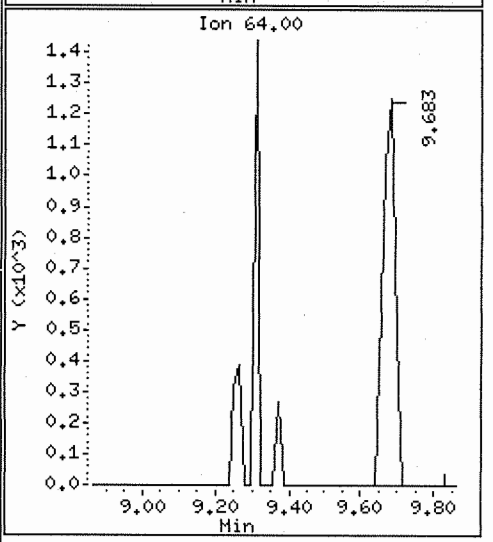












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-6
Lab Code: D0700056-013
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	**0.46**	J	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	**0.26**	J	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	**0.58**		0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	**0.24**	J	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**0.46**	J	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	ND	U	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/11/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-6
Lab Code: D0700056-013
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	**3.1**		0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	115	79-135	01/19/2007	
4-Bromofluorobenzene - SS	101	82-124	01/19/2007	
Dibromofluoromethane - SS	105	84-127	01/19/2007	
Toluene-d8 - SS	102	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D
Lab Smp Id: D0700056-013 Client Smp ID: MWCL-6
Inj Date : 19-JAN-2007 04:57
Operator : X Inst ID: MSK.i
Smp Info : D0700056-013
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8/01/19/07

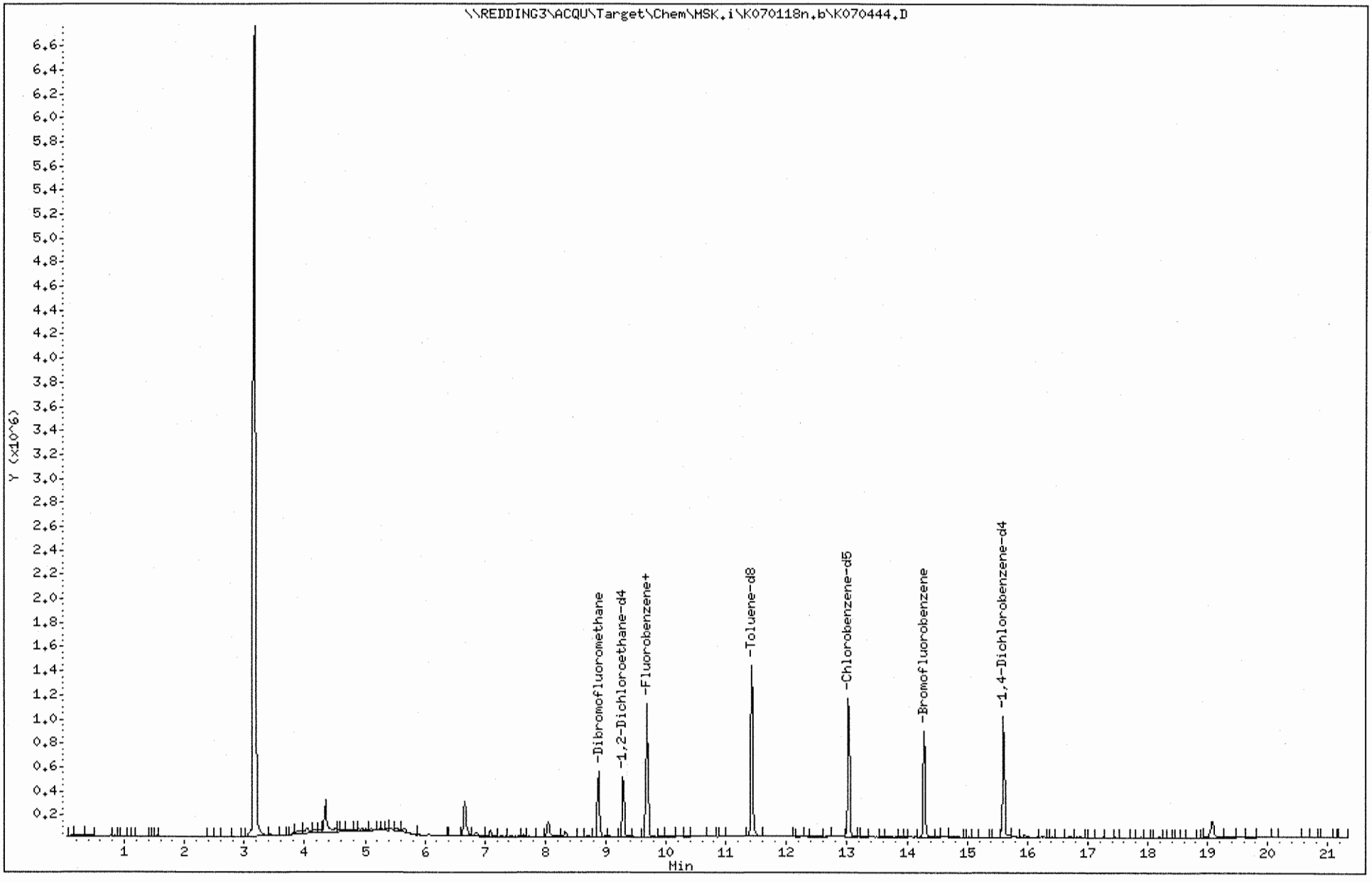
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.684	9.673	(1.000)	1202052	10.0000	
* 2	Chlorobenzene-d5	117	13.030	13.020	(1.000)	806238	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.604	15.593	(1.000)	332376	10.0000	
$ 4	Dibromofluoromethane	113	8.881	8.870	(0.917)	406745	10.4991	10.5
$ 5	1,2-Dichloroethane-d4	65	9.282	9.287	(0.959)	409371	11.4862	11.5
$ 6	Toluene-d8	98	11.424	11.414	(0.877)	1067380	10.2046	10.2
$ 7	Bromofluorobenzene	174	14.295	14.284	(0.916)	302331	10.0533	10.0
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	4.047	4.036	(0.418)	14889	0.45804	0.458(a)
12	Bromomethane	94	4.567	4.646	(0.472)	342	0.62801	~~0.628(a)~~
13	Chloroethane	64	4.329	4.810	(0.447)	2863	0.18276	0.183(a)
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	6.709	6.699	(0.693)	9772	0.25704	0.257(aQ)
26	trans-1,2-Dichloroethene	96	7.096	7.085	(0.733)	20750	0.57658	0.576
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	7.631	7.621	(0.788)	16303	0.23906	0.239(a)
30	Vinyl acetate	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	8.048	8.350	(0.831)	10802	0.23802	0.238(a)
33	cis-1,2-Dichloroethene	96	8.330	8.335	(0.860)	18011	0.45590	0.456(a)
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.684	9.361	(1.000)	17267	0.38452	0.384(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	19.084	19.059	(1.223)	197278	3.07400	3.07
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D
Date : 19-JAN-2007 04:57
Client ID: MWCL-6
Instrument: MSK.i
Sample Info: D0700056-013
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

Client ID: MWCL-6

Instrument: MSK.i

Sample Info: D0700056-013

Purge Volume: 10.0

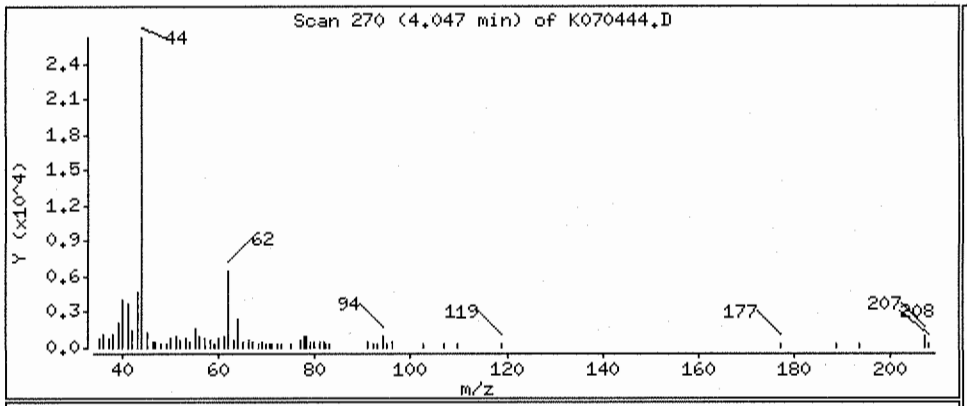
Operator: X

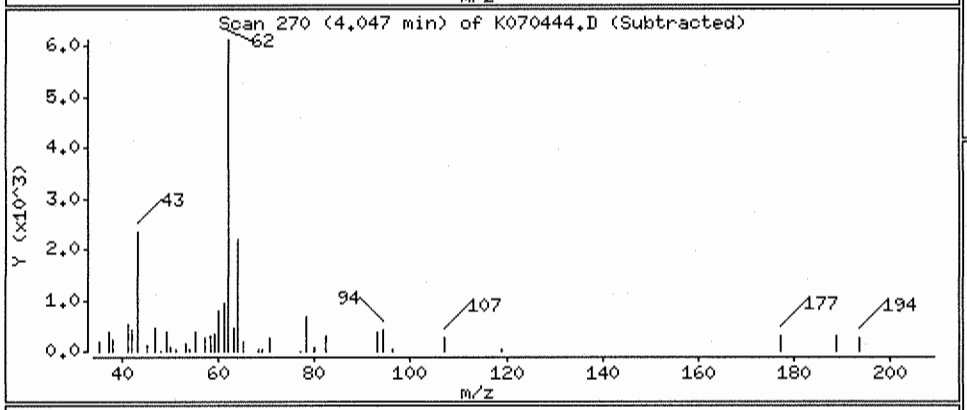
Column phase: DB-624

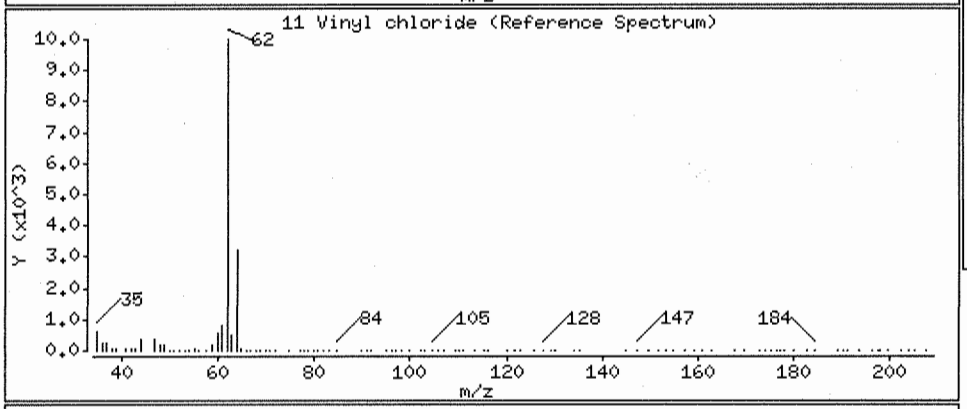
Column diameter: 0.32

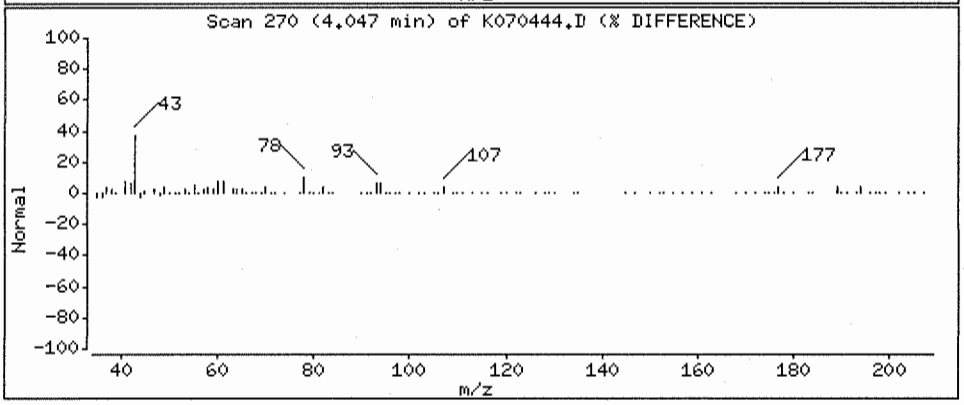
11 Vinyl chloride

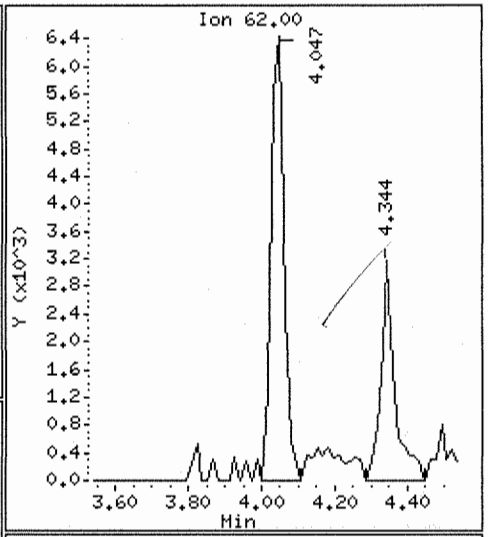
Concentration: 0.458 ug/L

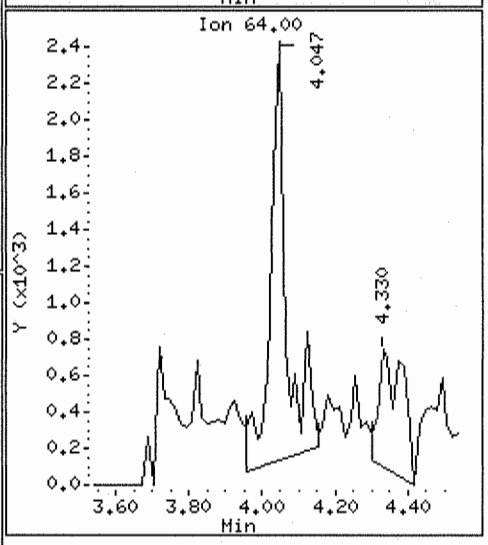












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

Client ID: MWCL-6

Instrument: MSK.i

Sample Info: D0700056-013

Purge Volume: 10.0

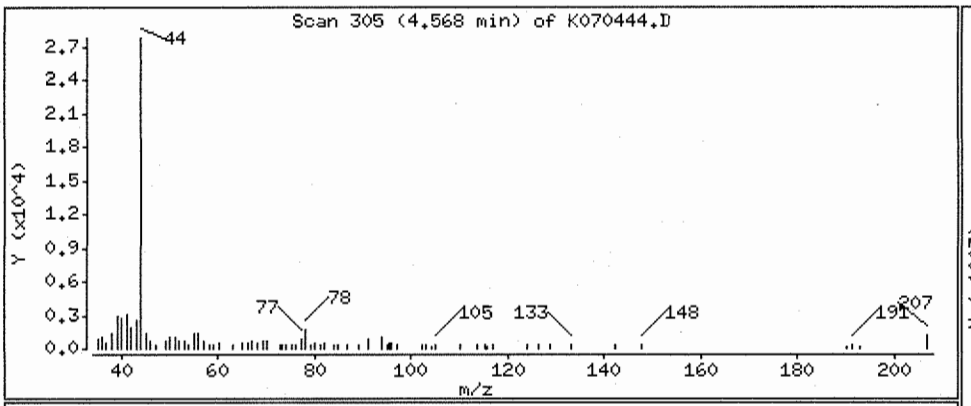
Operator: X

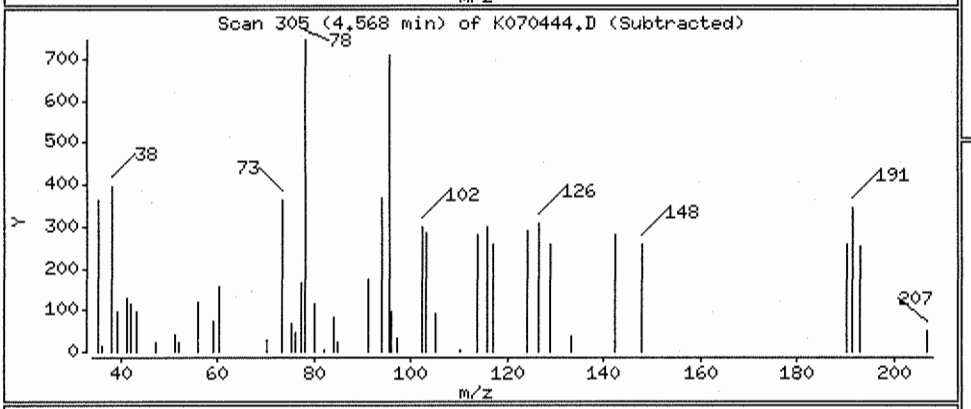
Column phase: DB-624

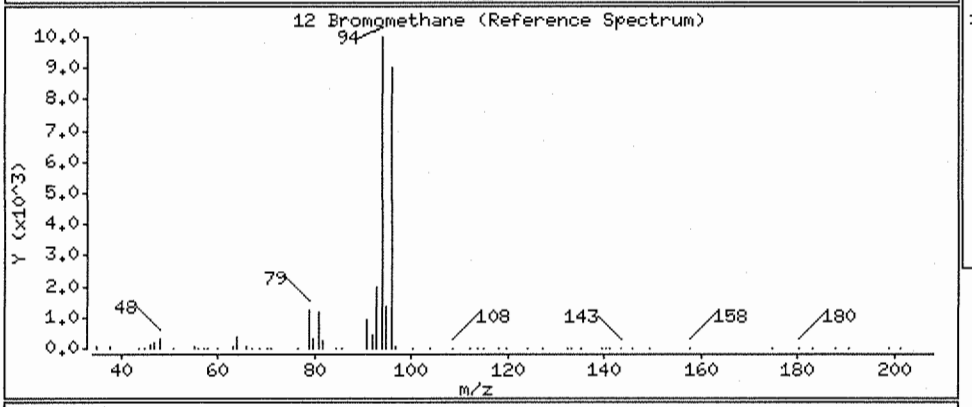
Column diameter: 0.32

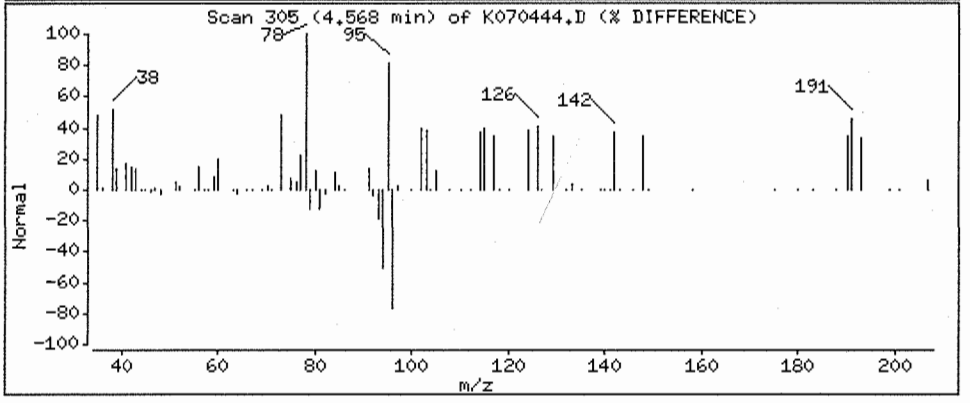
12 Bromomethane

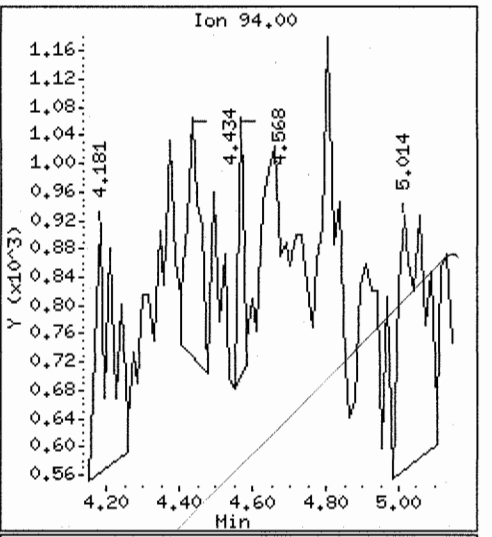
Concentration: 0.628 ug/L

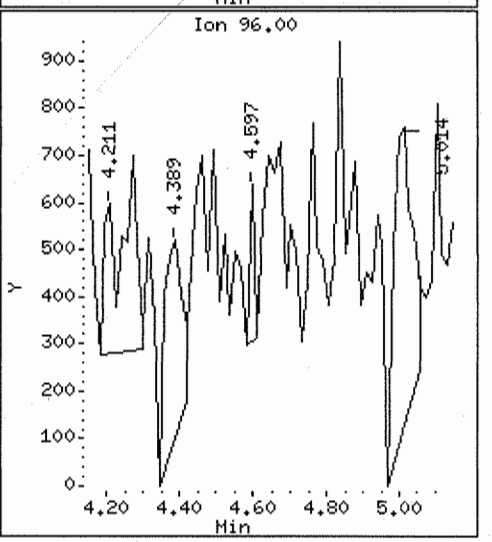












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

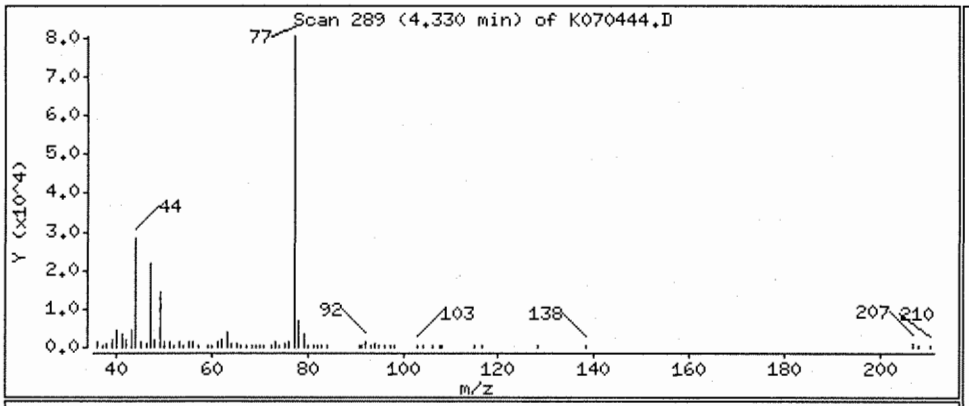
Client ID: MWCL-6 Instrument: MSK.i

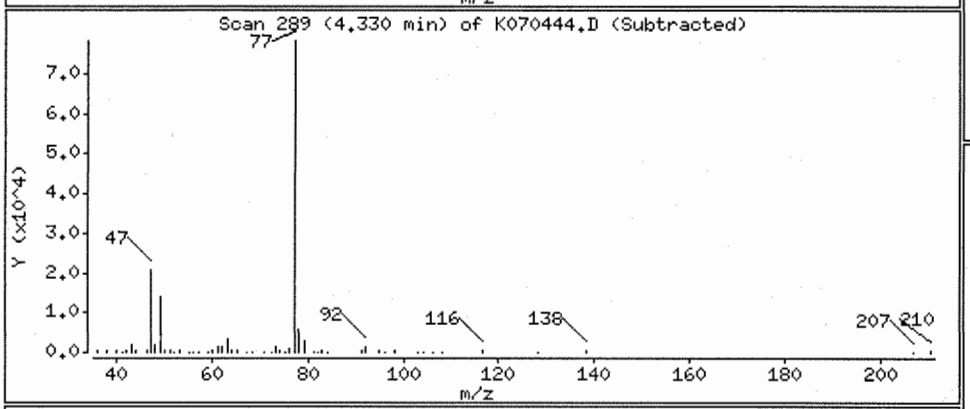
Sample Info: D0700056-013

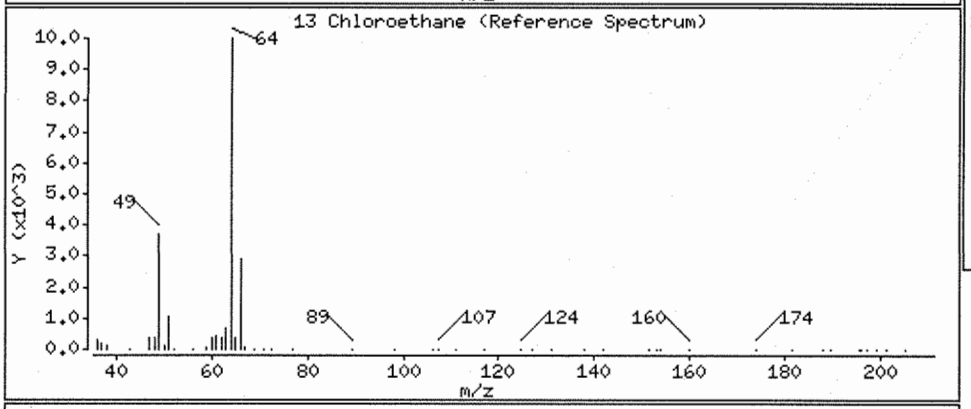
Purge Volume: 10.0 Operator: X

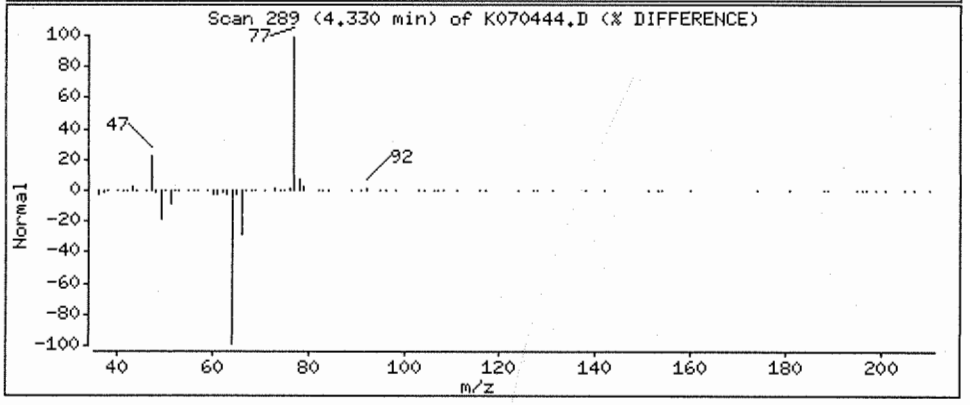
Column phase: DB-624 Column diameter: 0.32

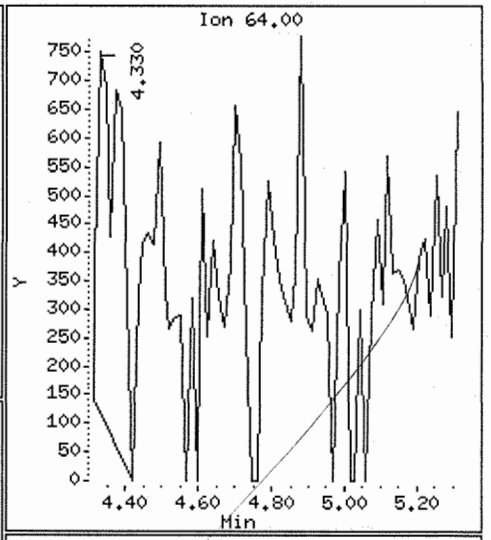
13 Chloroethane Concentration: 0.183 ug/L

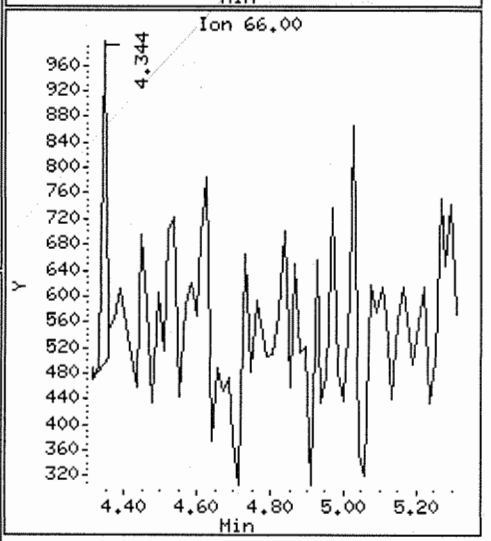












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

Client ID: MWCL-6

Instrument: MSK.i

Sample Info: D0700056-013

Purge Volume: 10.0

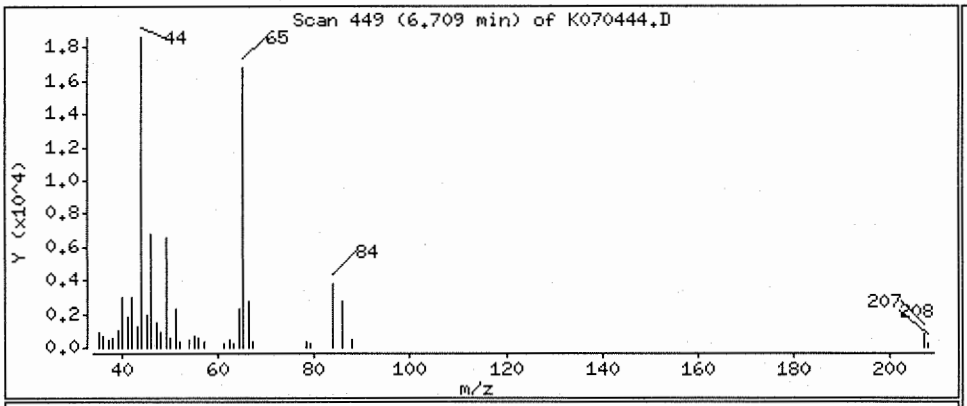
Operator: X

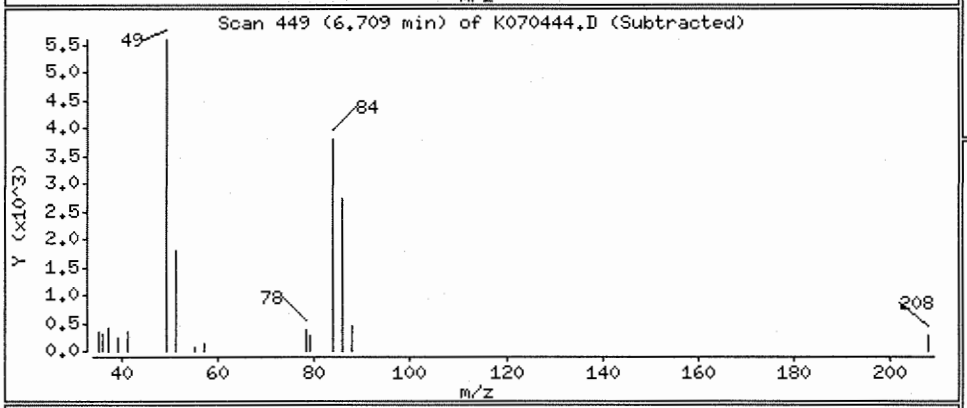
Column phase: DB-624

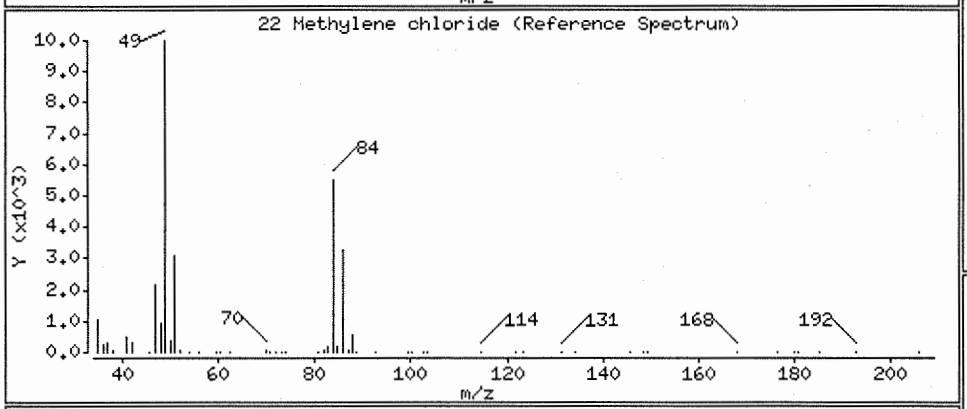
Column diameter: 0.32

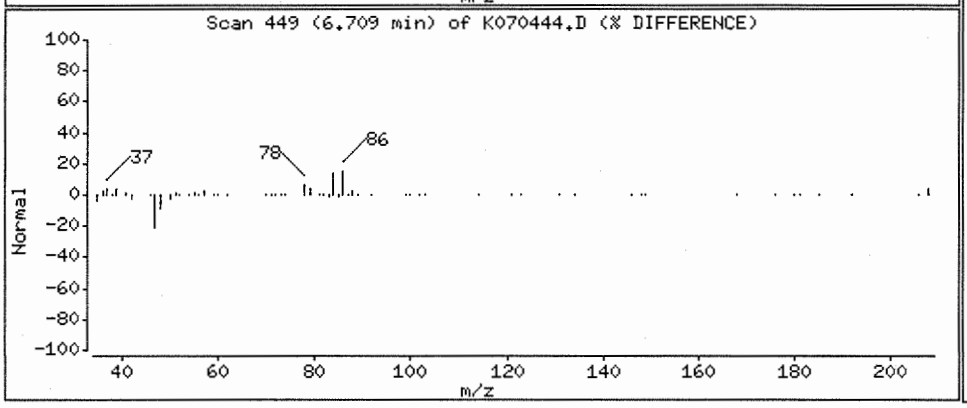
22 Methylene chloride

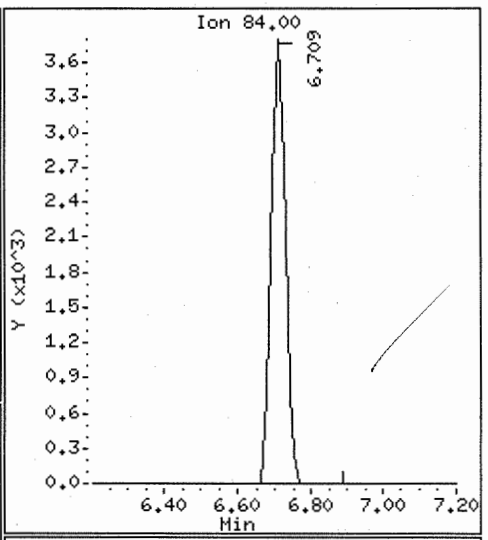
Concentration: 0.257 ug/L

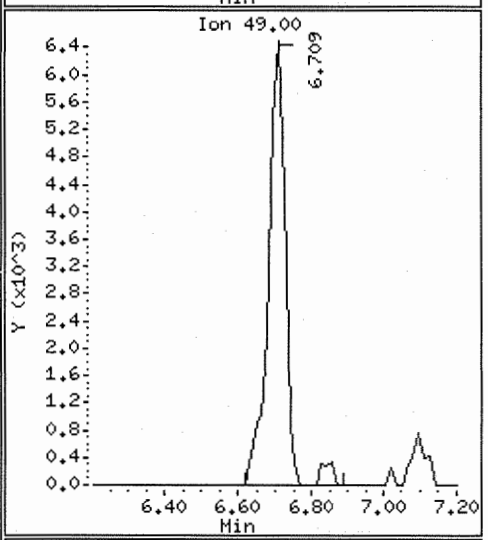


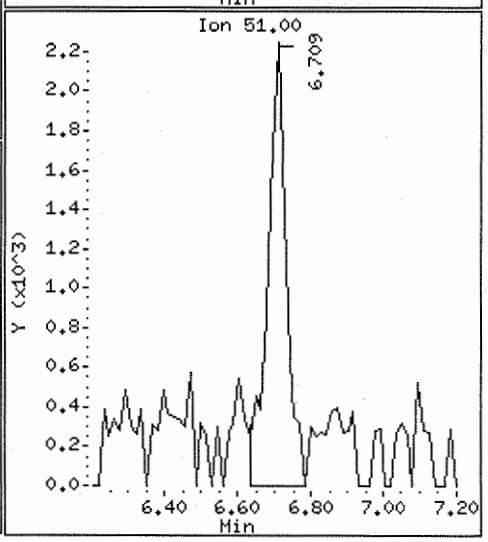












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

Client ID: MWCL-6

Instrument: MSK.i

Sample Info: D0700056-013

Purge Volume: 10.0

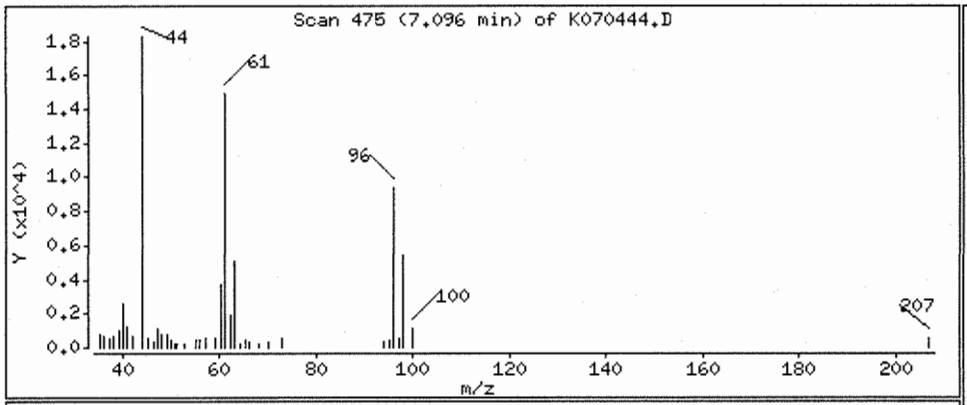
Operator: X

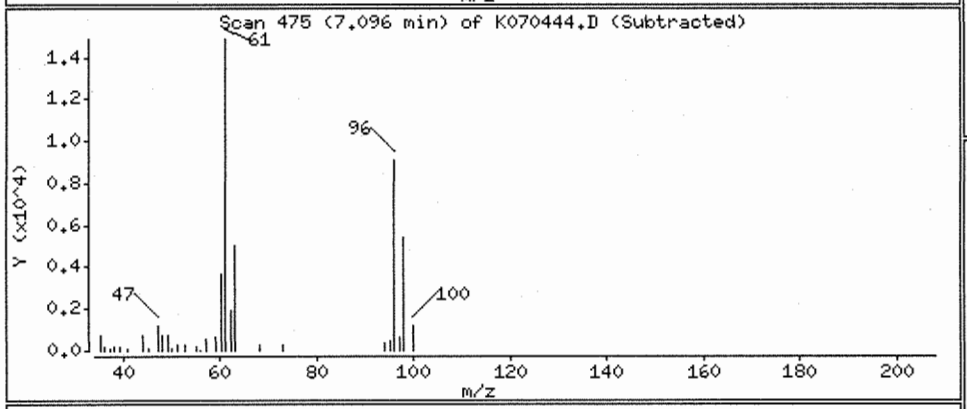
Column phase: DB-624

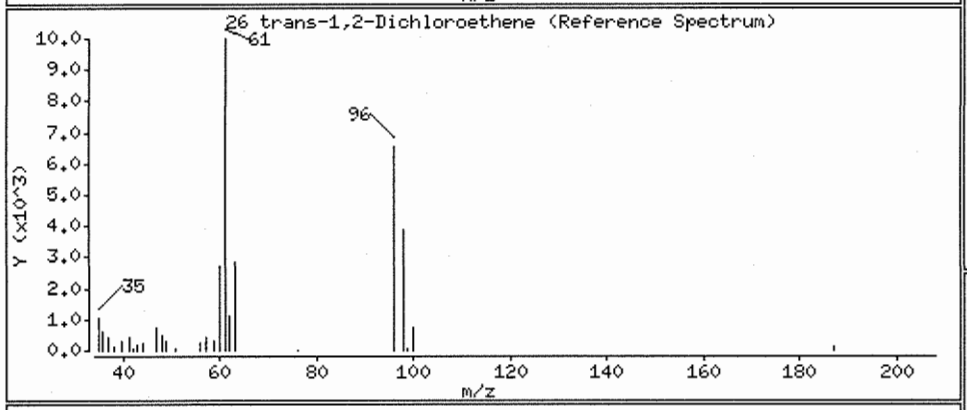
Column diameter: 0.32

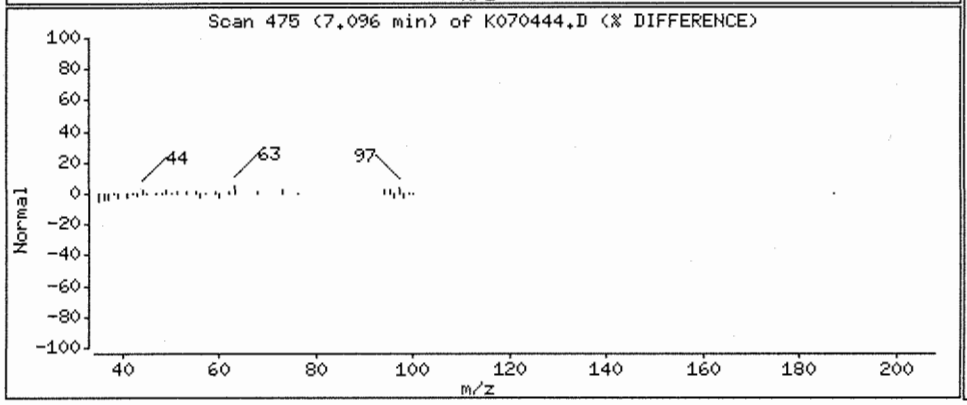
26 trans-1,2-Dichloroethene

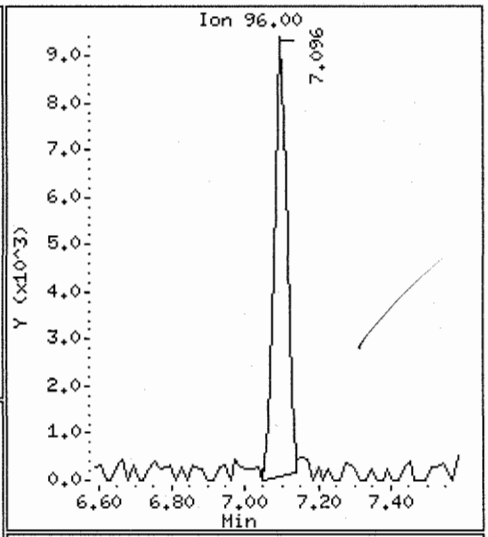
Concentration: 0.576 ug/L

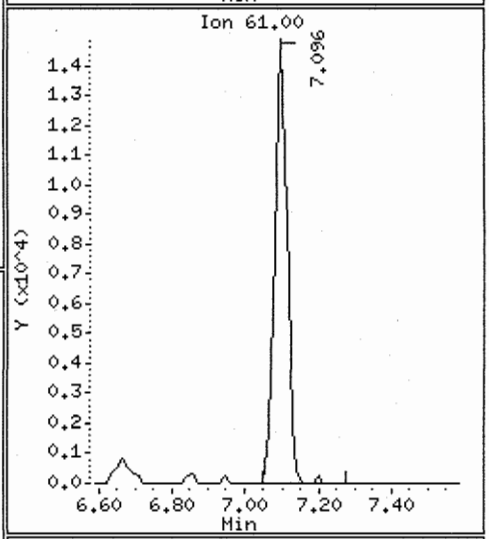


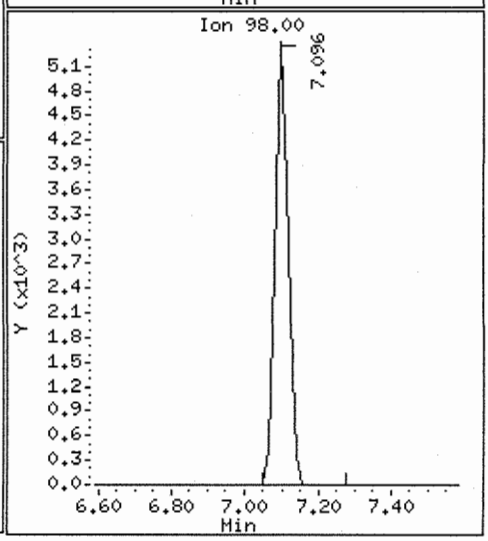












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

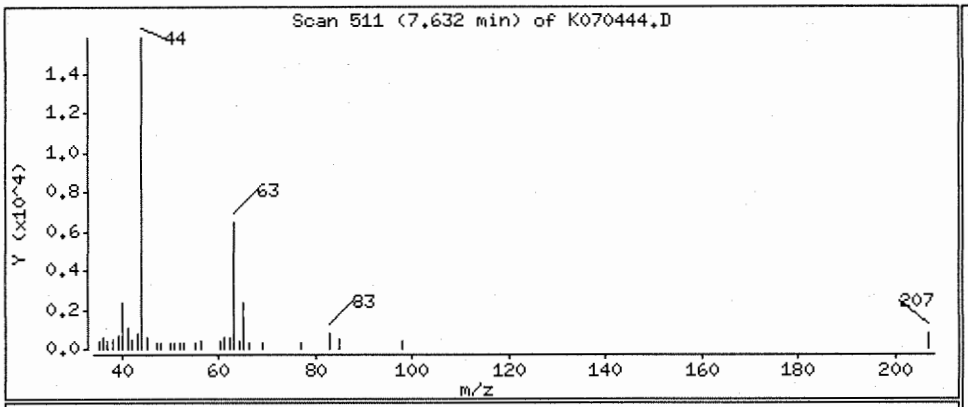
Client ID: MWCL-6 Instrument: MSK.i

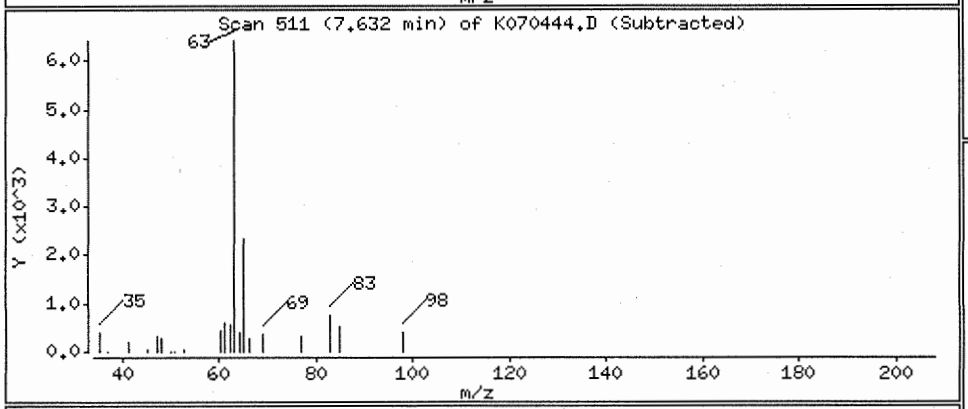
Sample Info: D0700056-013

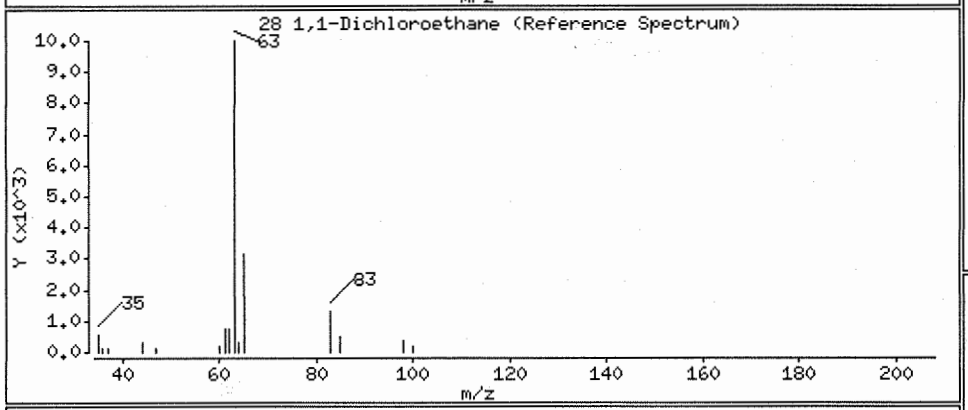
Purge Volume: 10.0 Operator: X

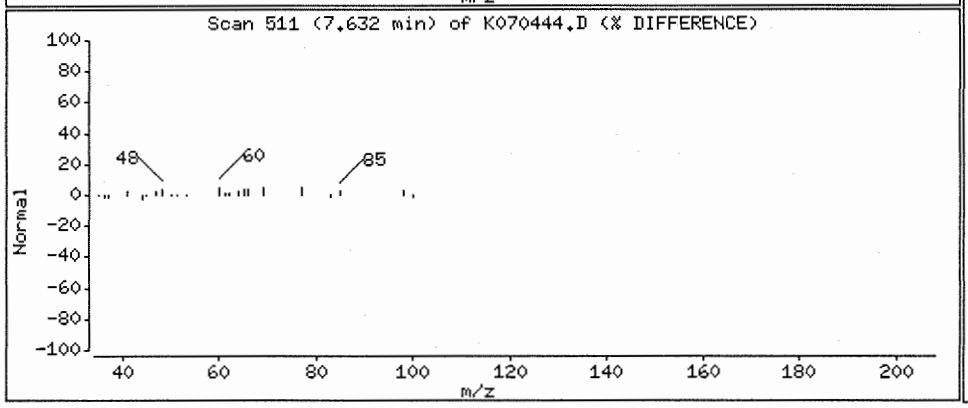
Column phase: DB-624 Column diameter: 0.32

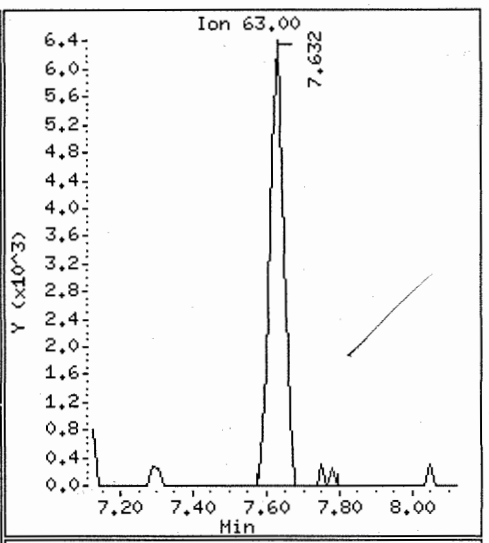
28 1,1-Dichloroethane Concentration: 0.239 ug/L

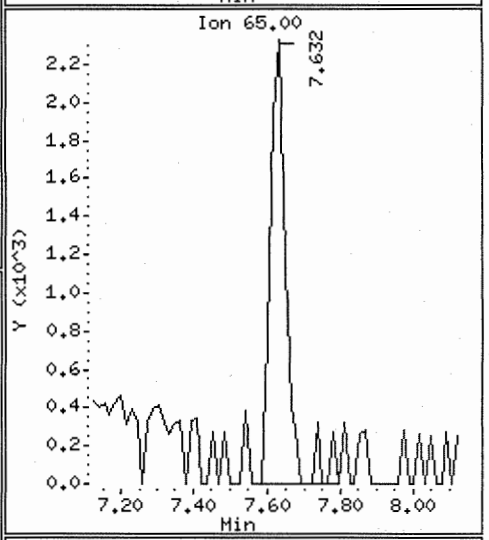


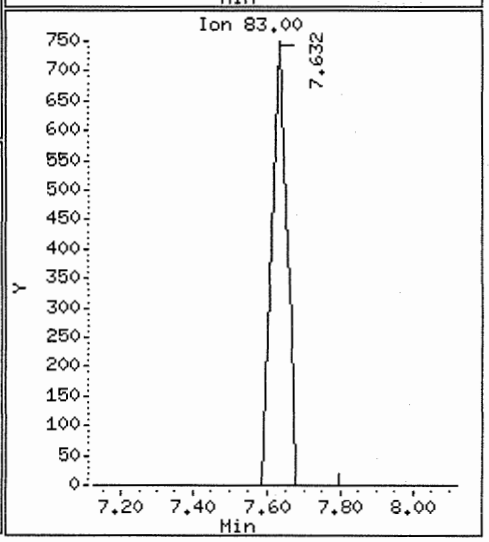












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

Client ID: MWCL-6

Instrument: MSK.i

Sample Info: D0700056-013

Purge Volume: 10.0

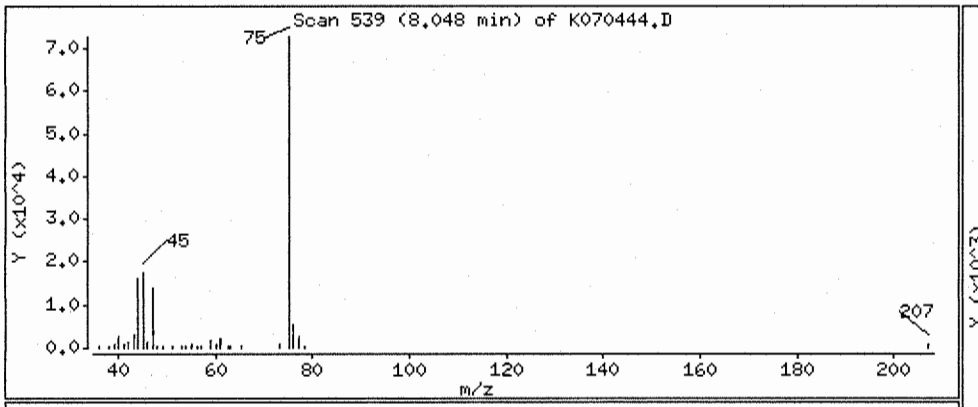
Operator: X

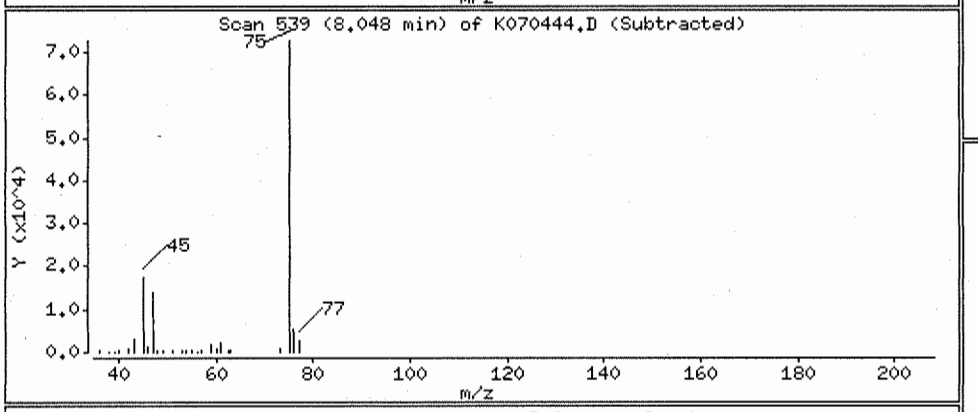
Column phase: DB-624

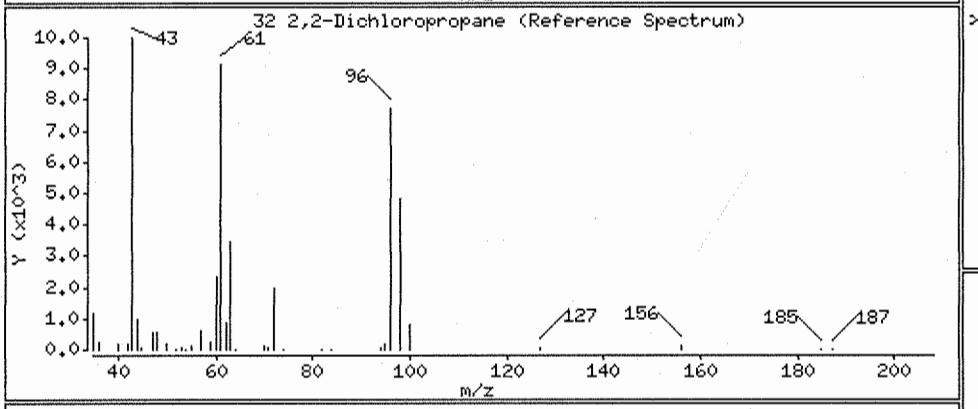
Column diameter: 0.32

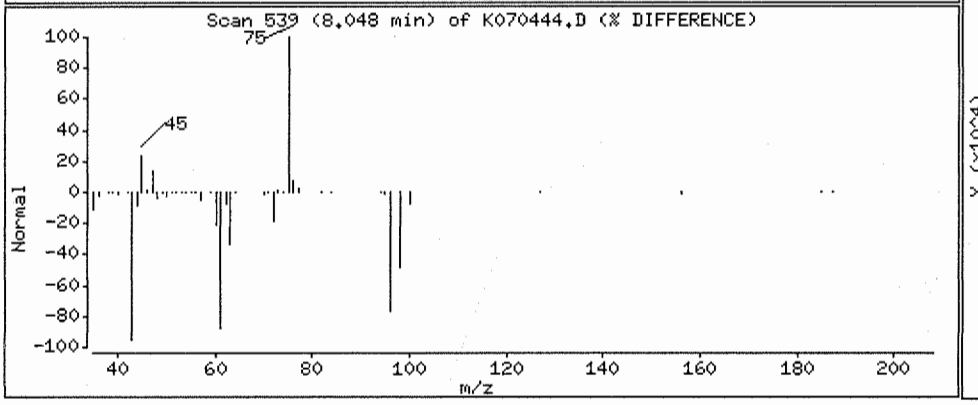
32 2,2-Dichloropropane

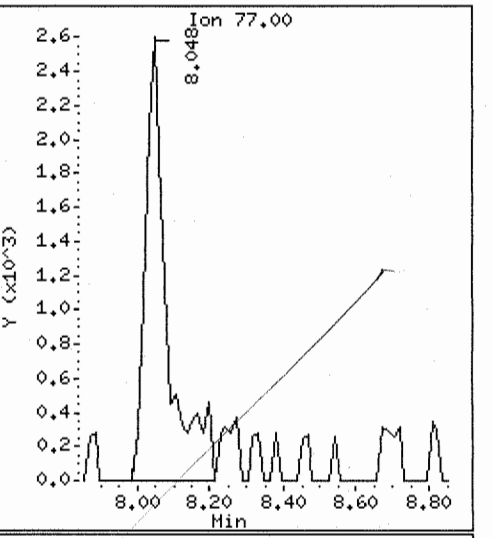
Concentration: 0.238 ug/L

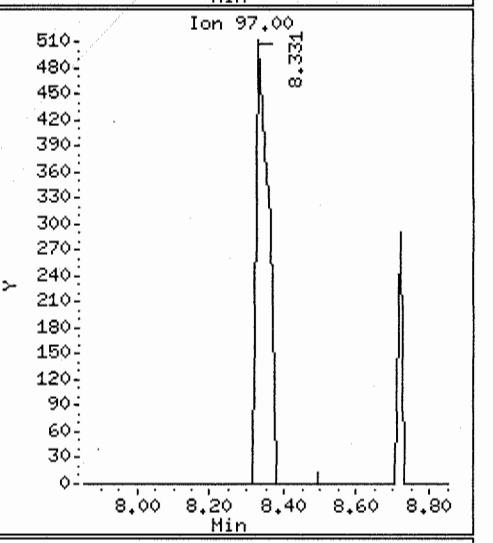


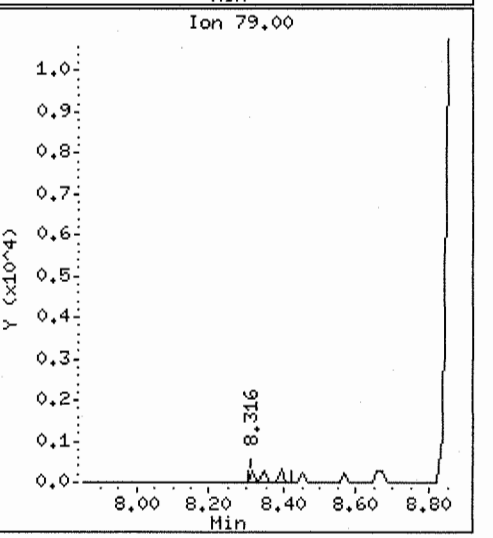












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

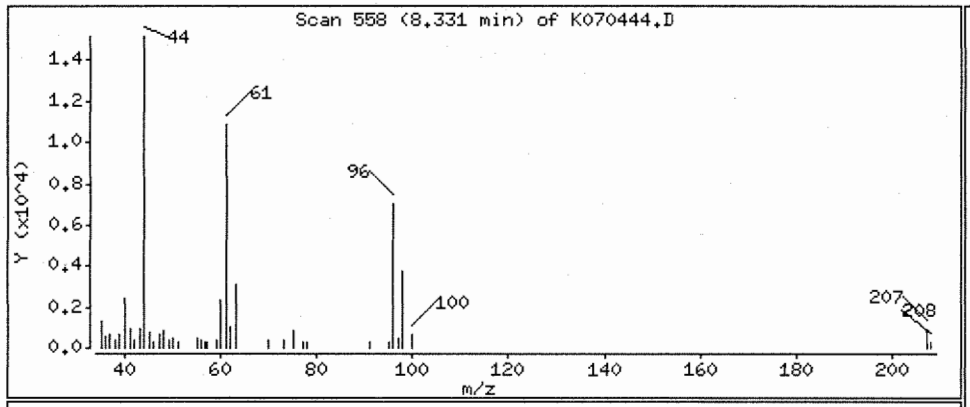
Client ID: MWCL-6 Instrument: MSK.i

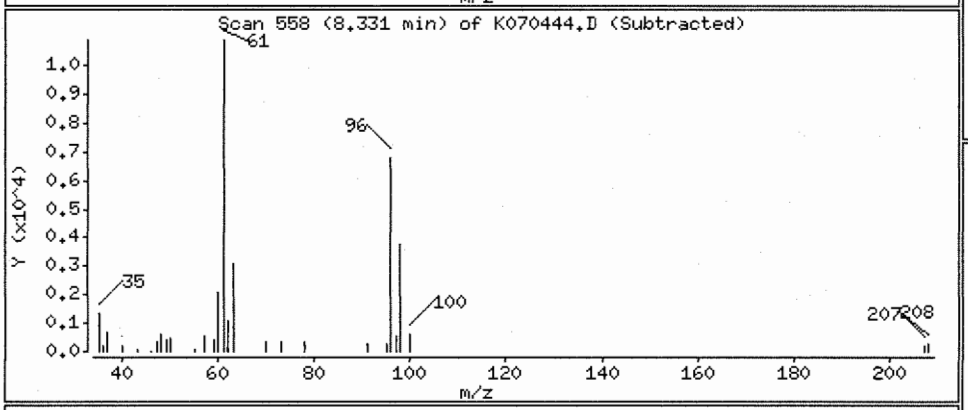
Sample Info: D0700056-013

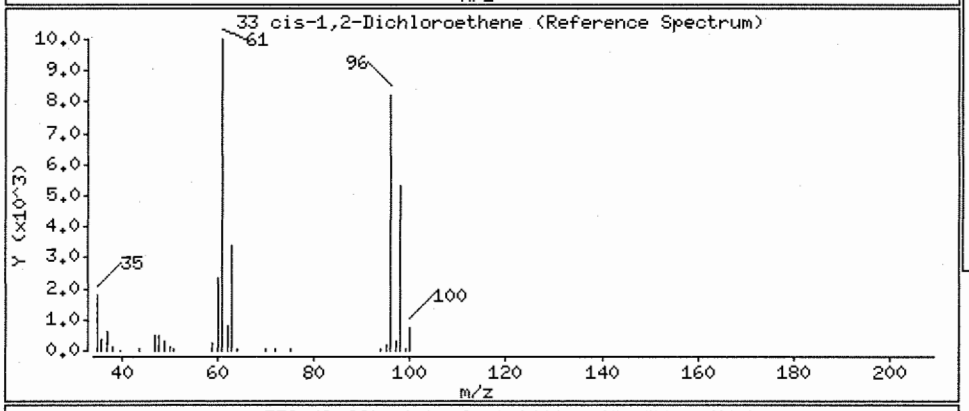
Purge Volume: 10.0 Operator: X

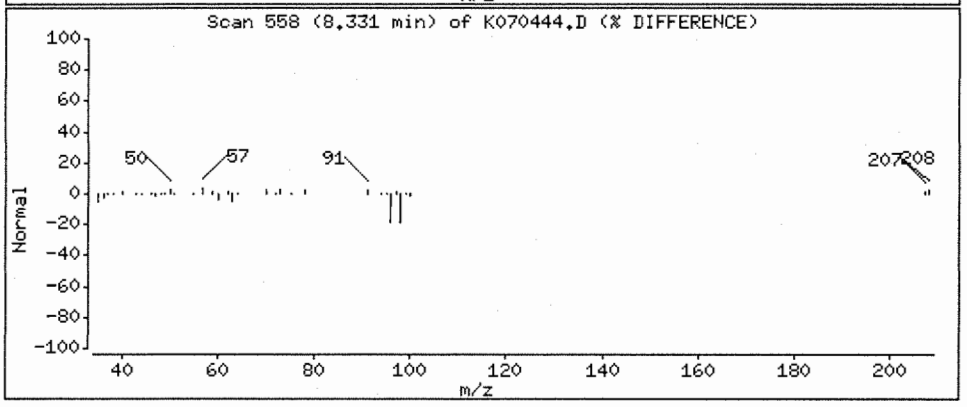
Column phase: DB-624 Column diameter: 0.32

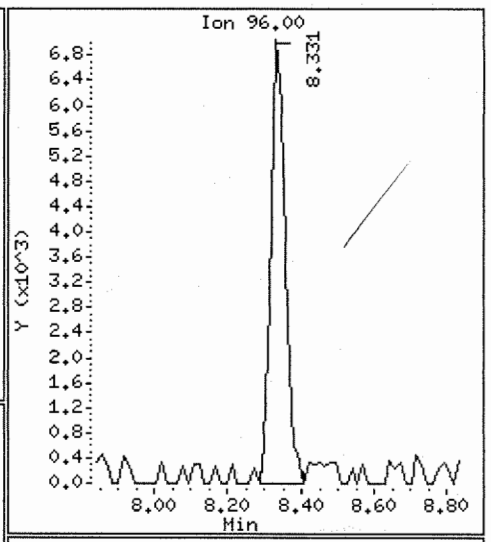
33 cis-1,2-Dichloroethene Concentration: 0.456 ug/L

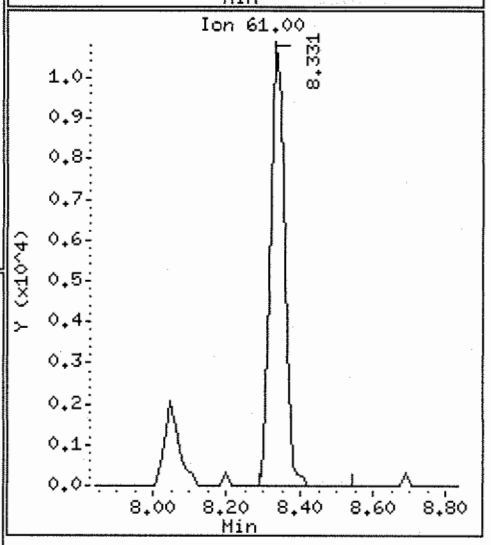












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

Client ID: MWCL-6

Instrument: MSK.i

Sample Info: D0700056-013

Purge Volume: 10.0

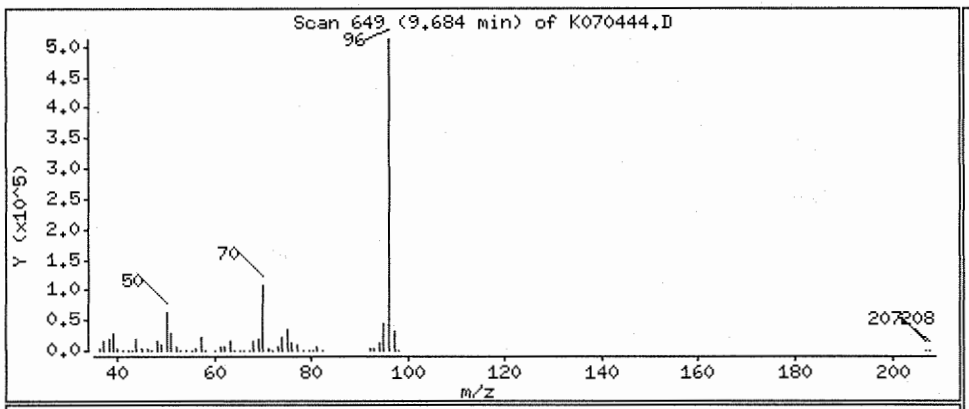
Operator: X

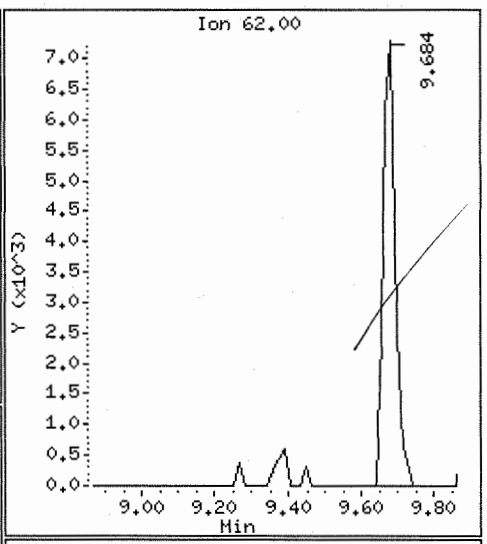
Column phase: DB-624

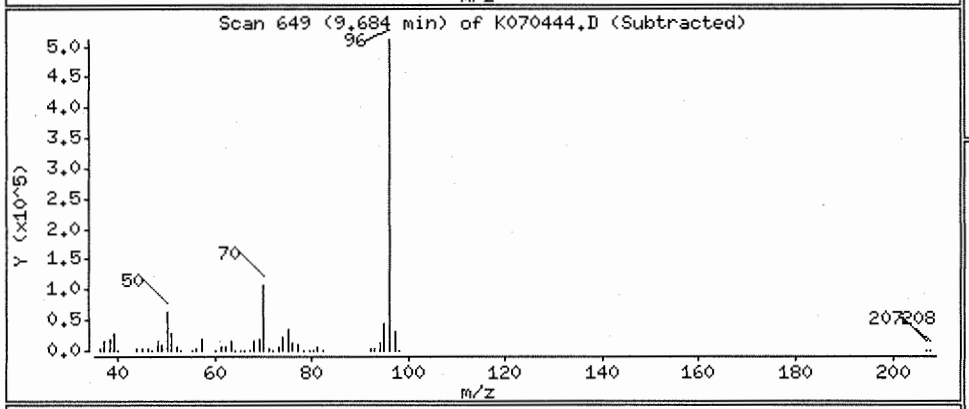
Column diameter: 0.32

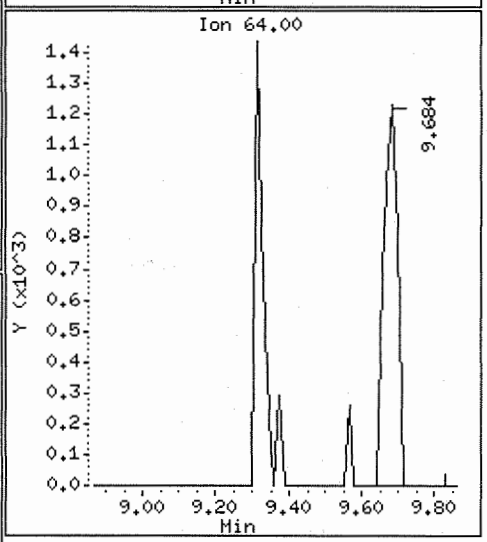
44 1,2-Dichloroethane

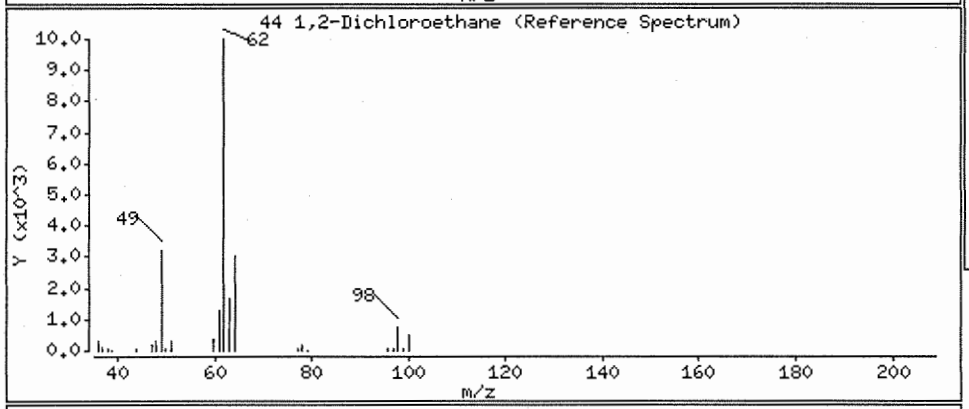
Concentration: 0.384 ug/L

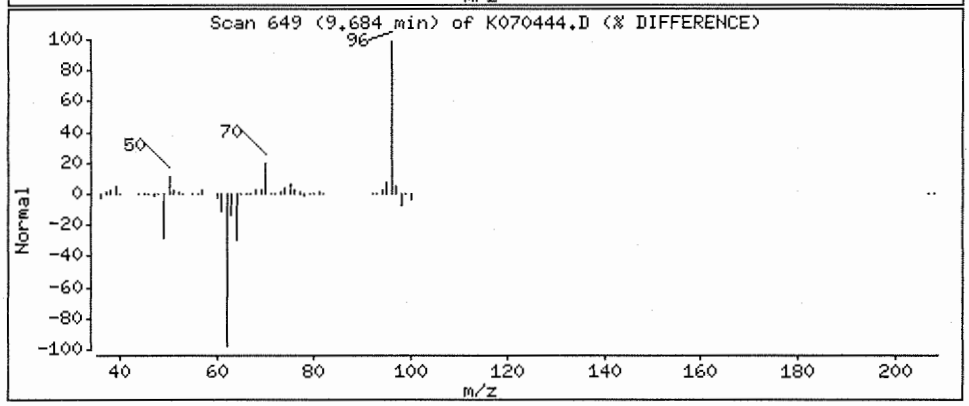












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070444.D

Date : 19-JAN-2007 04:57

Client ID: MWCL-6

Instrument: MSK.i

Sample Info: D0700056-013

Purge Volume: 10.0

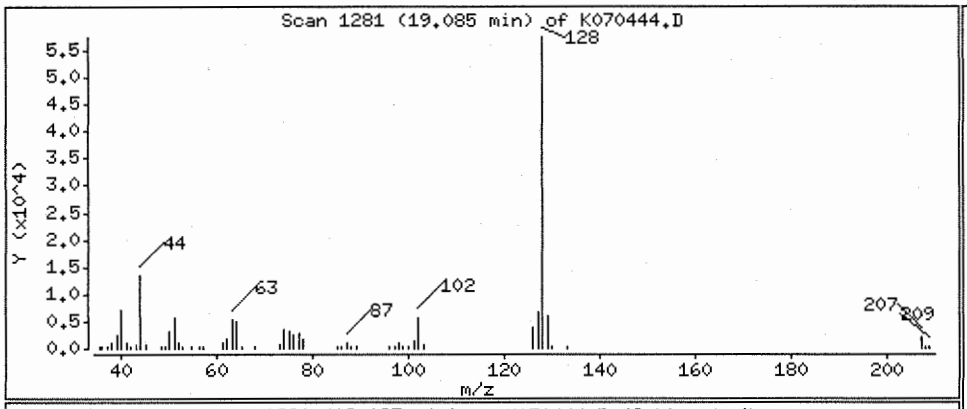
Operator: X

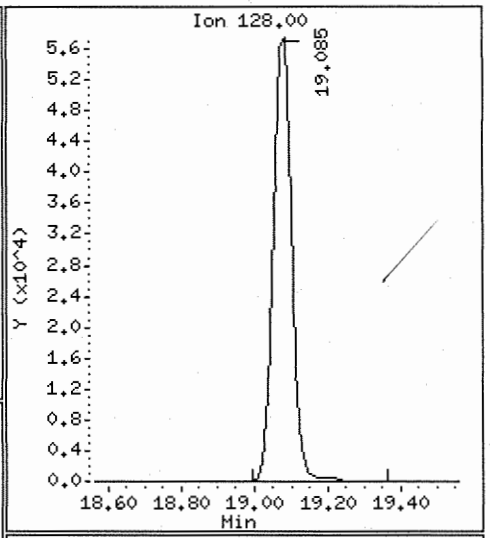
Column phase: DB-624

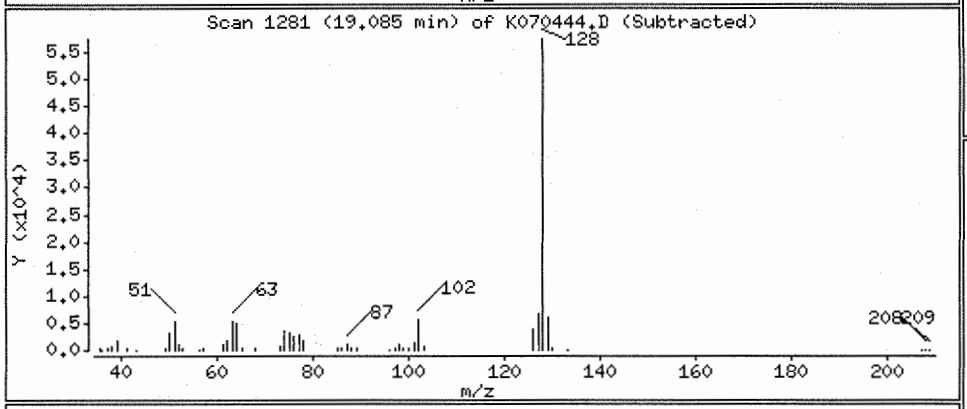
Column diameter: 0.32

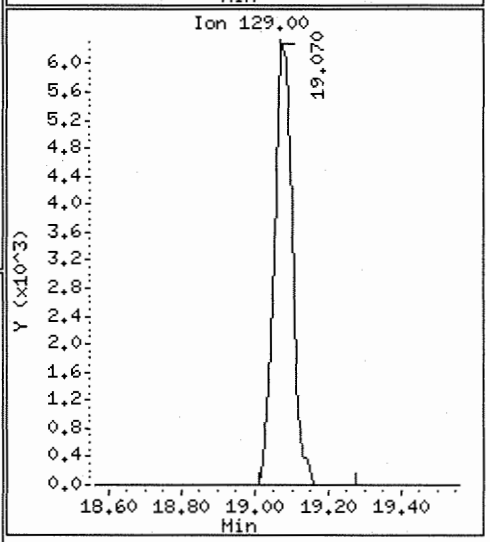
92 Naphthalene

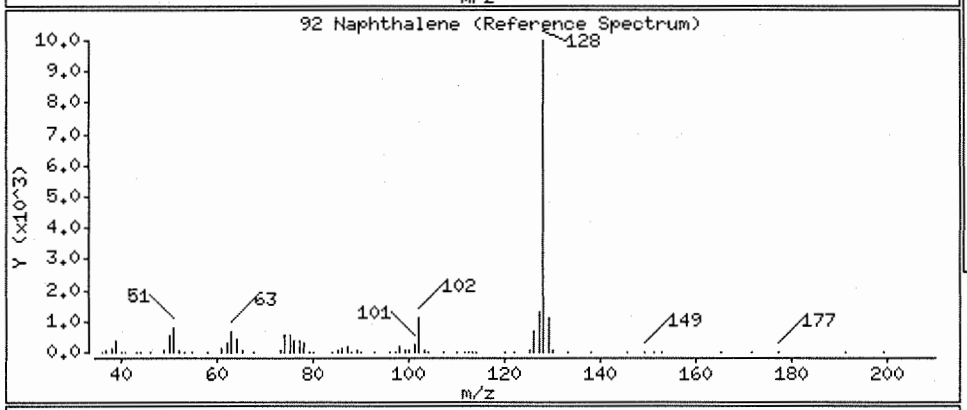
Concentration: 3.07 ug/L

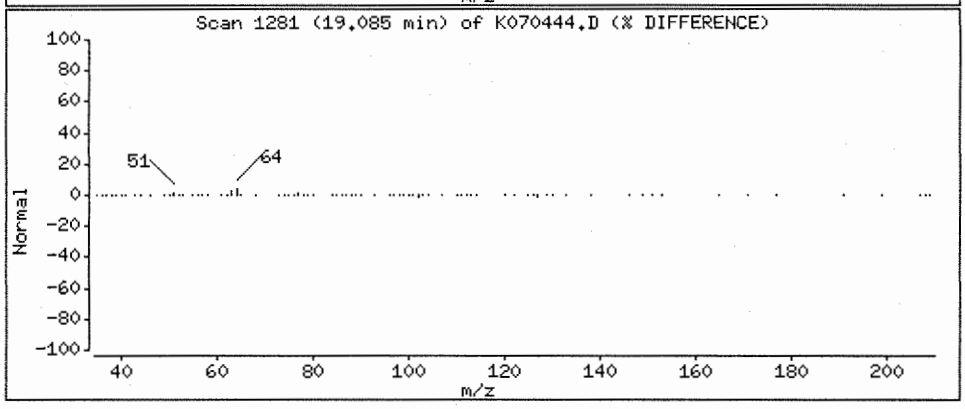












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-7
Lab Code: D0700056-014
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	**1.1**	J	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**0.49**	J	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	ND	U	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	**13**		0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	**0.14**	J	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-7
Lab Code: D0700056-014
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	121	79-135	01/19/2007	
4-Bromofluorobenzene - SS	103	82-124	01/19/2007	
Dibromofluoromethane - SS	103	84-127	01/19/2007	
Toluene-d8 - SS	94	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070445.D
Lab Smp Id: D0700056-014 Client Smp ID: MWCL-7
Inj Date : 19-JAN-2007 05:23
Operator : X Inst ID: MSK.i
Smp Info : D0700056-014
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

3a1 1/9/07

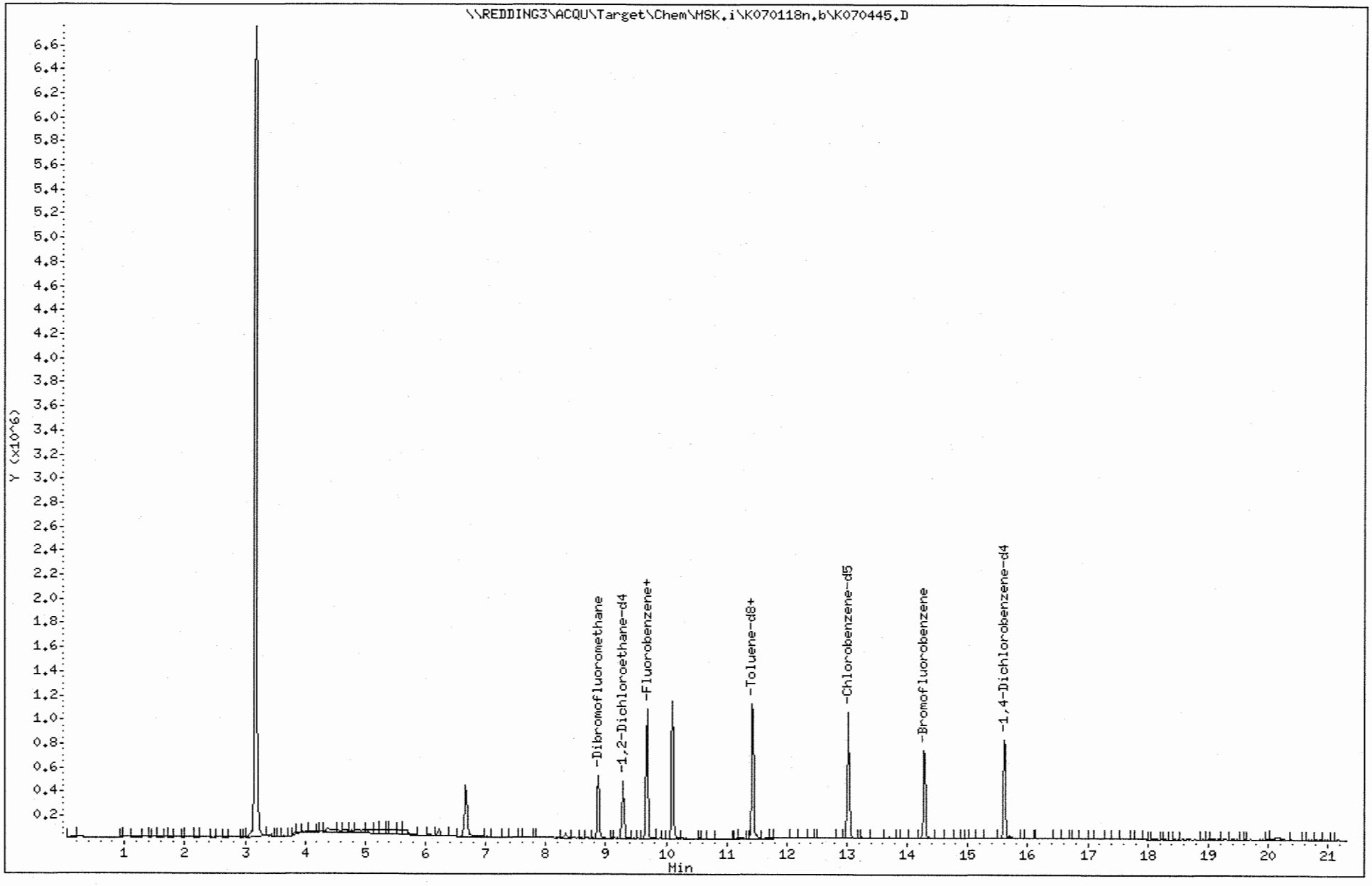
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
* 1	Fluorobenzene	96	9.681	9.673	(1.000)	1113665	10.0000	
* 2	Chlorobenzene-d5	117	13.028	13.020	(1.000)	743996	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.616	15.593	(1.000)	292900	10.0000	
$ 4	Dibromofluoromethane	113	8.878	8.870	(0.917)	369410	10.2922	10.3
$ 5	1,2-Dichloroethane-d4	65	9.295	9.287	(0.960)	400927	12.1421	12.1
$ 6	Toluene-d8	98	11.422	11.414	(0.877)	906161	9.38803	9.39
$ 7	Bromofluorobenzene	174	14.292	14.284	(0.915)	271834	10.2575	10.2
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.669	4.646	(0.482)	1181	0.67183	0.672(a)
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.082	6.059	(0.628)	29816	1.11364	1.11(a)
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.343	8.335	(0.862)	17771	0.48552	0.486(a)
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.681	9.361	(1.000)	15628	0.37564	~~0.376(a)~~
45	Trichloroethene	95	10.098	10.090	(1.043)	466604	13.4448	~~13.4~~
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	11.496	11.503	(0.882)	9951	0.14396	0.144(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	19.082	19.059	(1.222)	5825	0.10300	0.103(a)
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070445.D
Date : 19-JAN-2007 05:23
Client ID: MWCL-7
Instrument: MSK.i
Sample Info: D0700056-014
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070445.D

Date : 19-JAN-2007 05:23

Client ID: MWCL-7

Instrument: MSK.i

Sample Info: D0700056-014

Purge Volume: 10.0

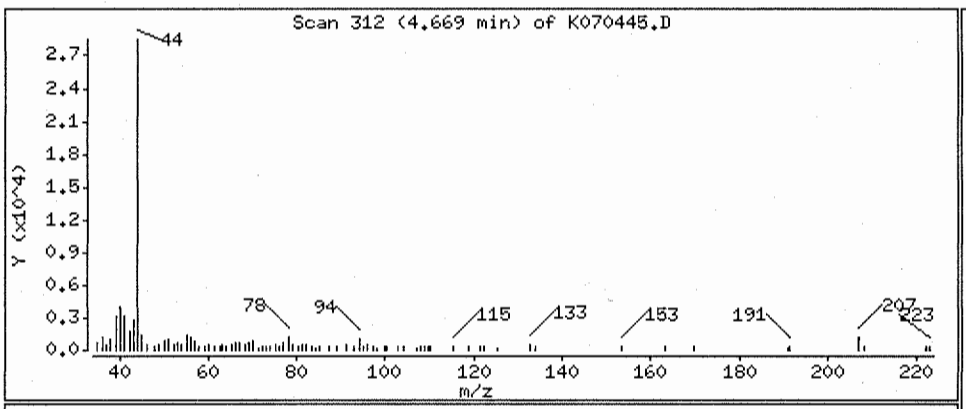
Operator: X

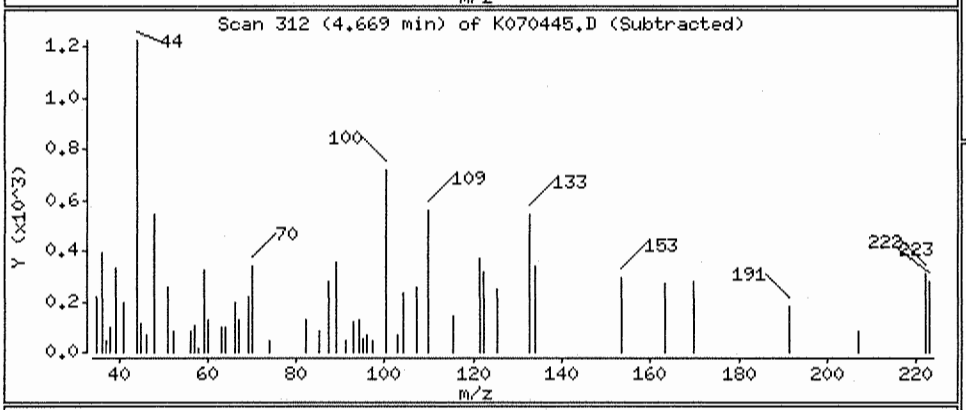
Column phase: DB-624

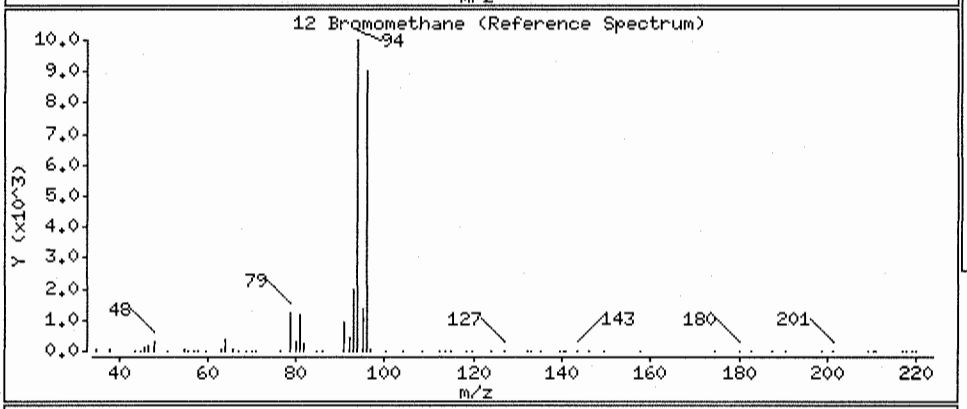
Column diameter: 0.32

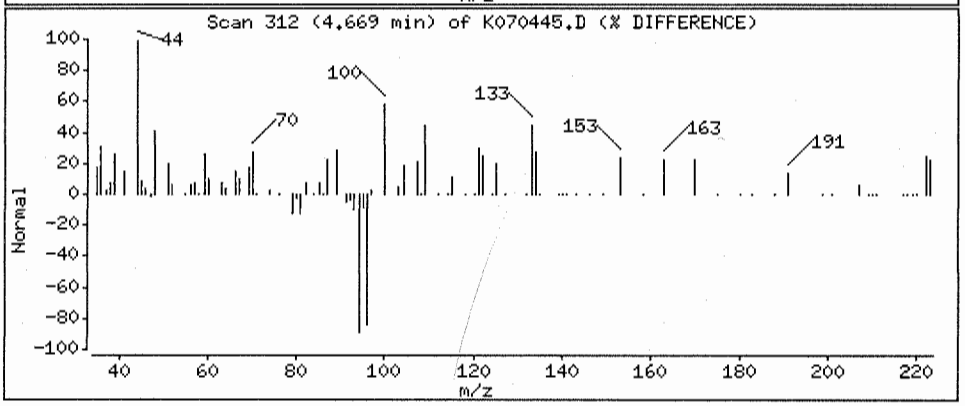
12 Bromomethane

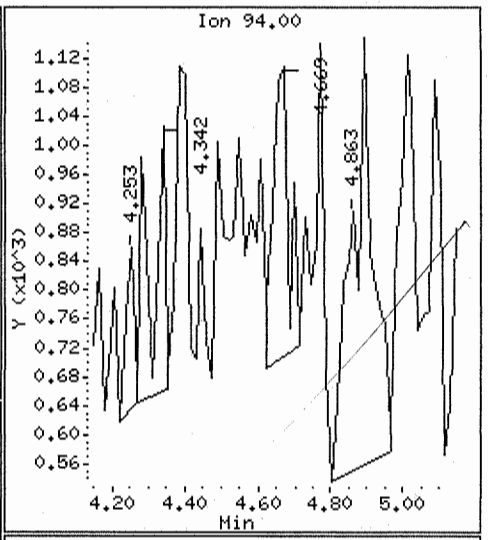
Concentration: 0.672 ug/L

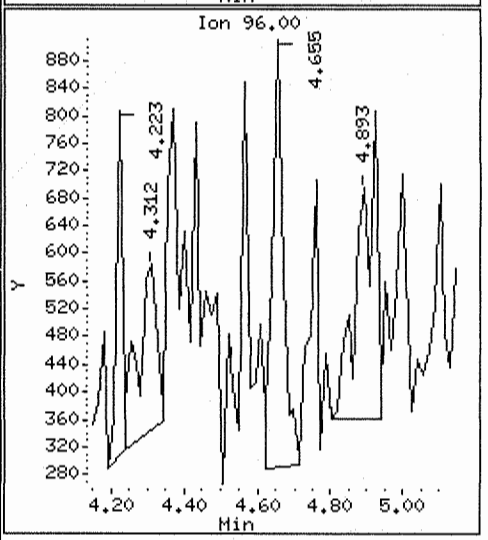












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070445.D

Date : 19-JAN-2007 05:23

Client ID: MWCL-7

Instrument: MSK.i

Sample Info: D0700056-014

Purge Volume: 10.0

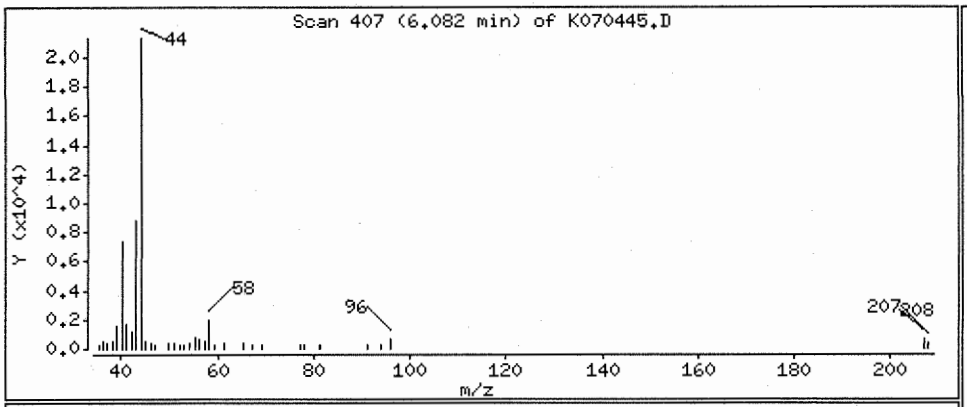
Operator: X

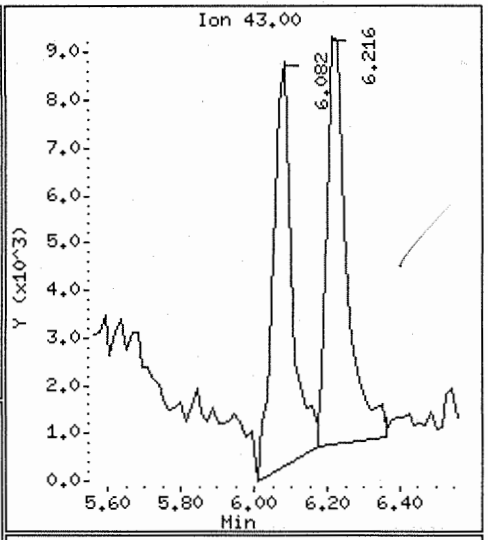
Column phase: DB-624

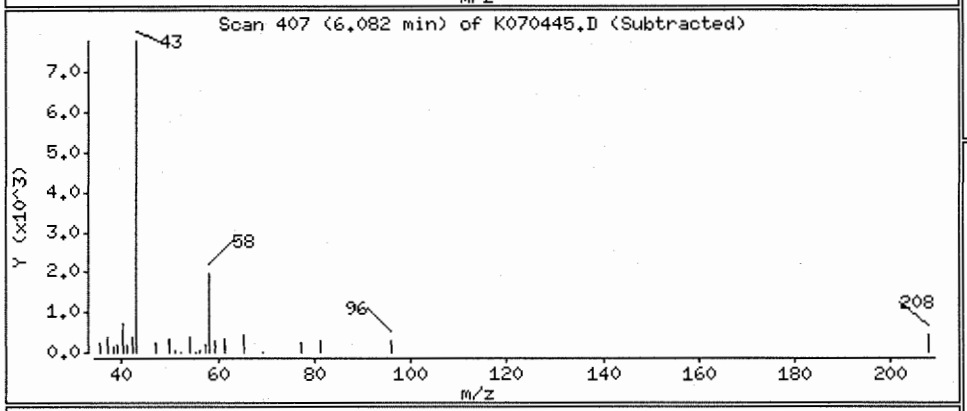
Column diameter: 0.32

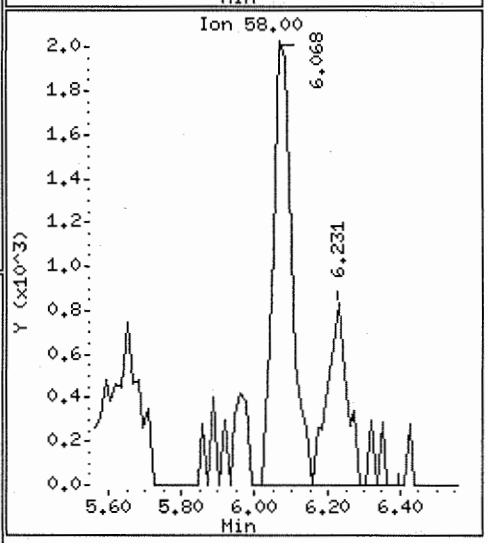
18 Acetone

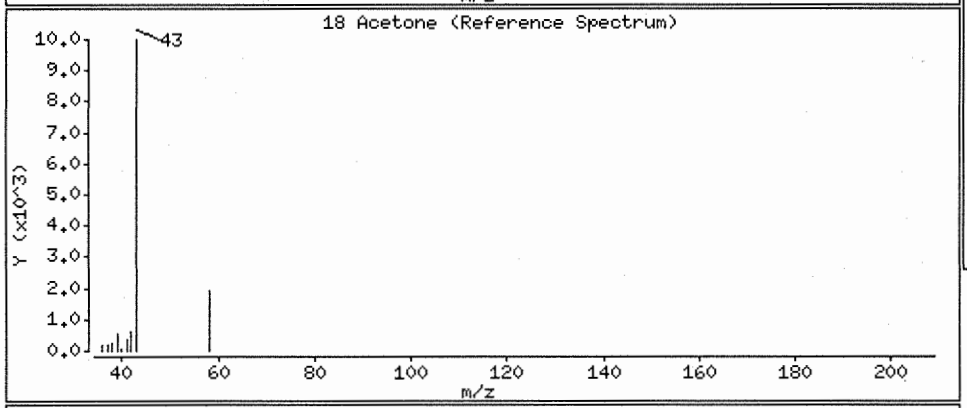
Concentration: 1.11 ug/L

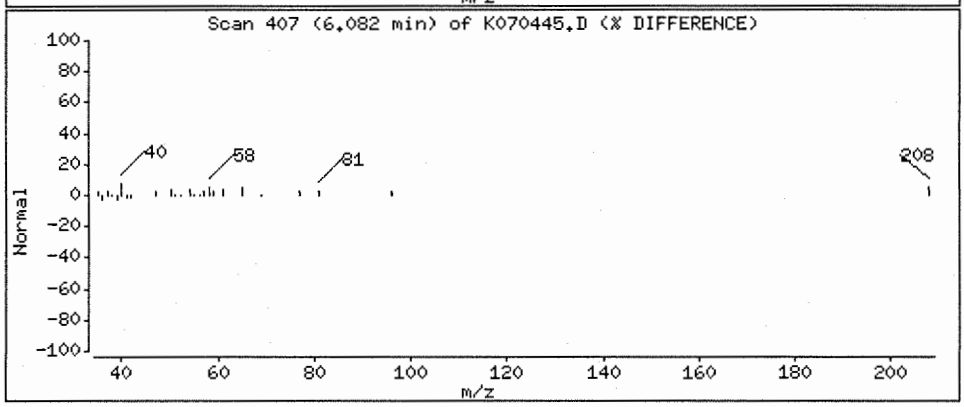












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070445.D

Date : 19-JAN-2007 05:23

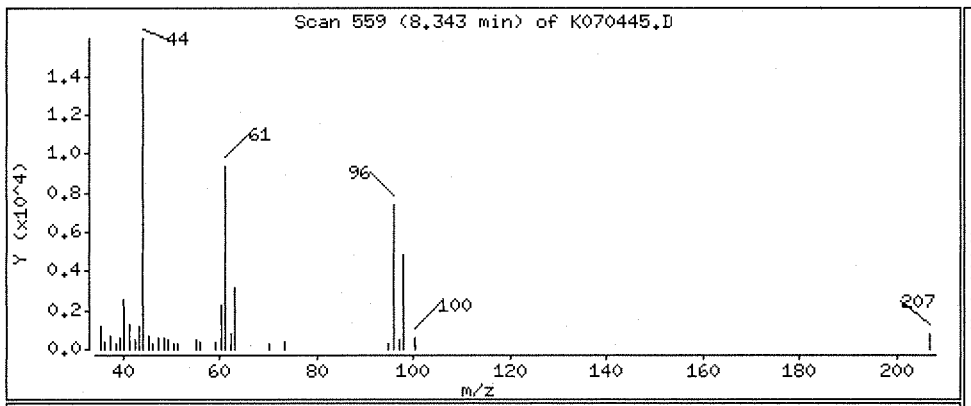
Client ID: MWCL-7 Instrument: MSK.i

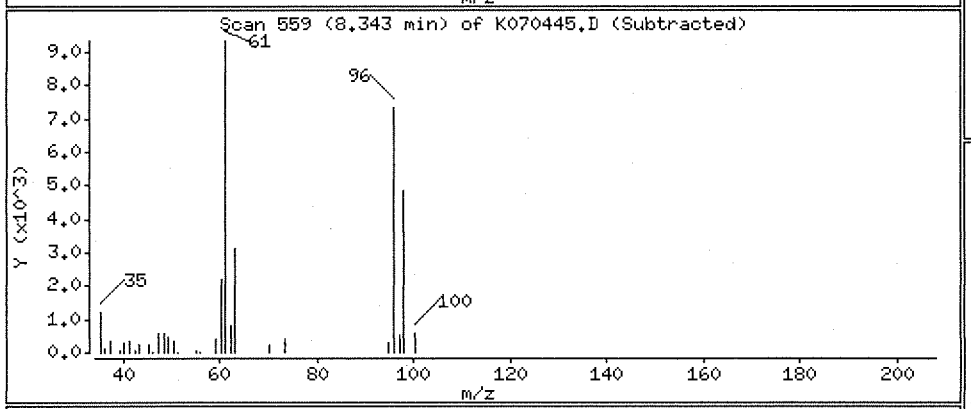
Sample Info: D0700056-014

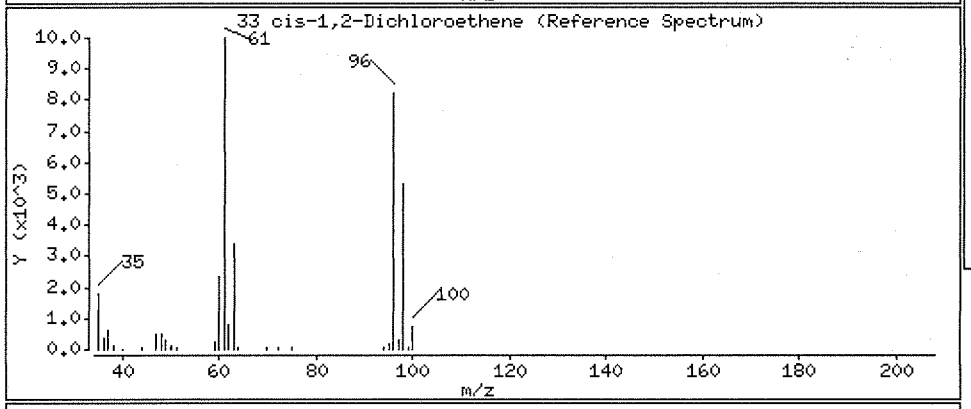
Purge Volume: 10.0 Operator: X

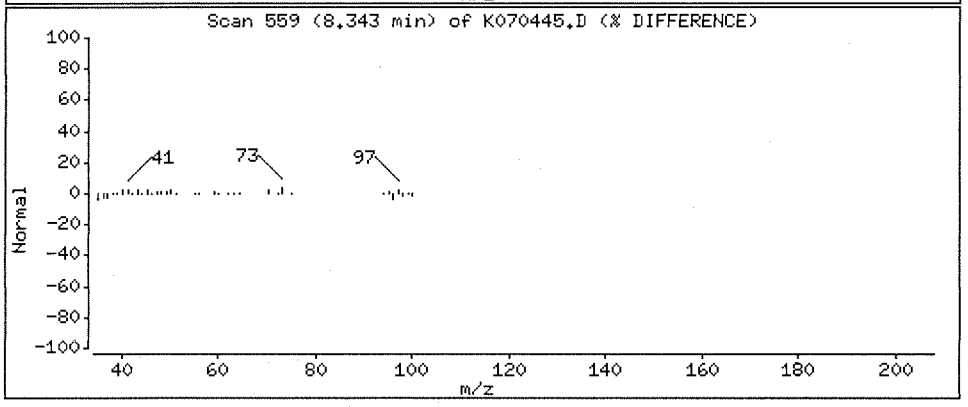
Column phase: DB-624 Column diameter: 0.32

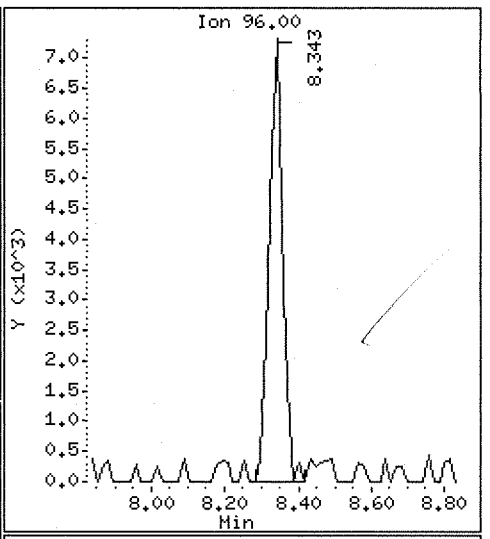
33 cis-1,2-Dichloroethene Concentration: 0.486 ug/L

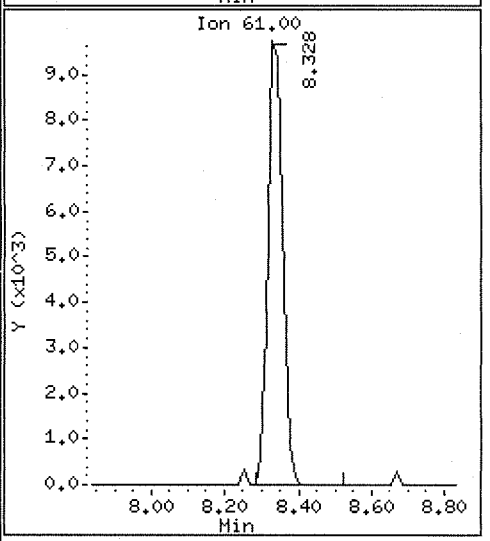












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070445.D

Date : 19-JAN-2007 05:23

Client ID: MWCL-7

Instrument: MSK.i

Sample Info: D0700056-014

Purge Volume: 10.0

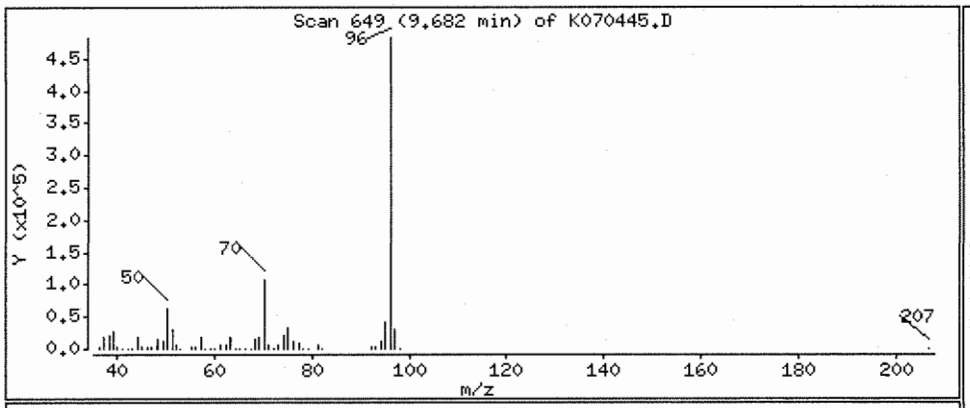
Operator: X

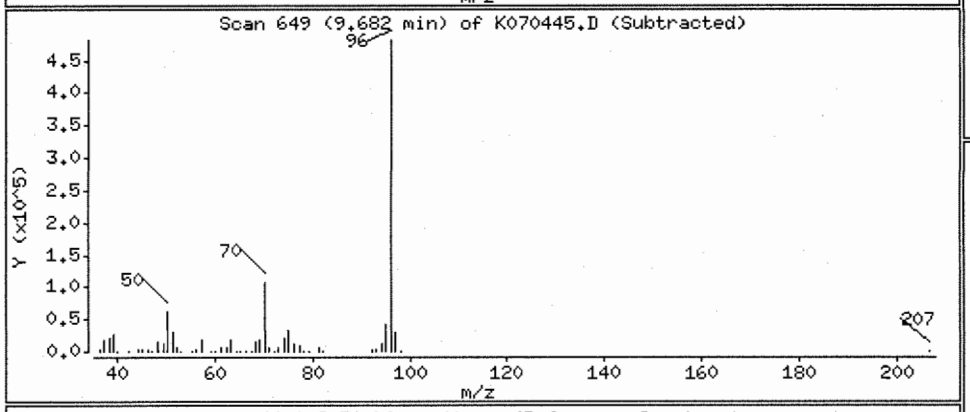
Column phase: DB-624

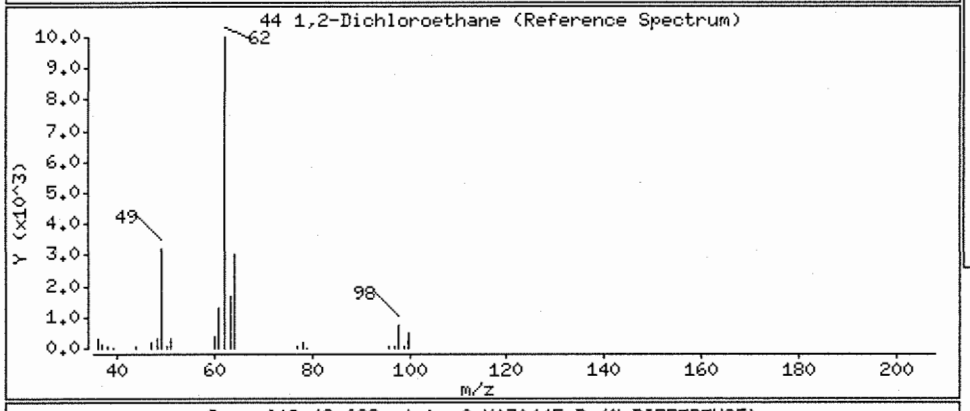
Column diameter: 0.32

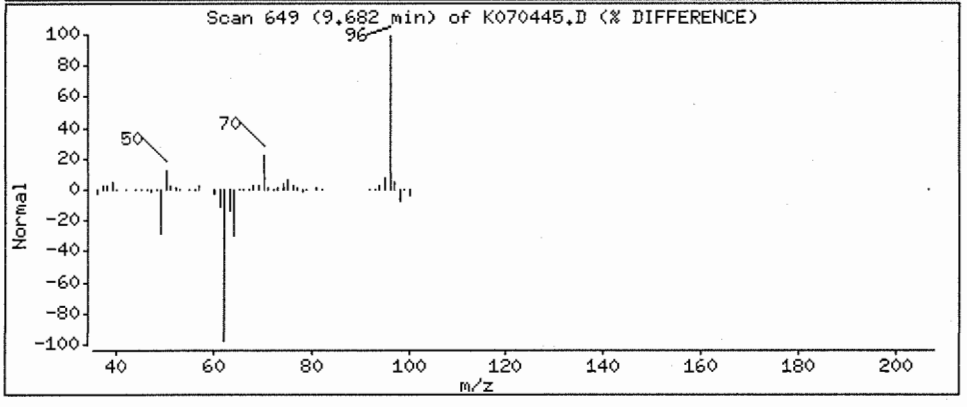
44 1,2-Dichloroethane

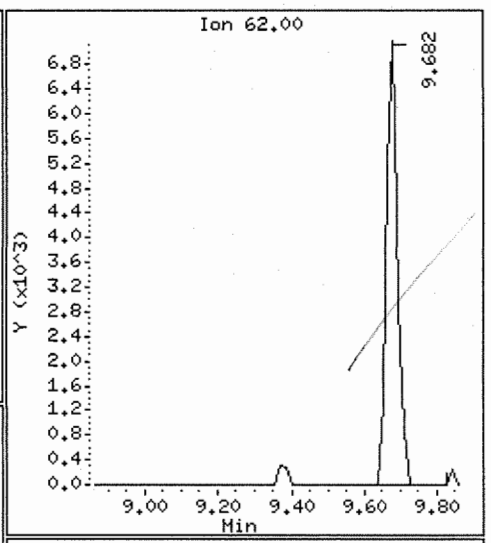
Concentration: 0.376 ug/L

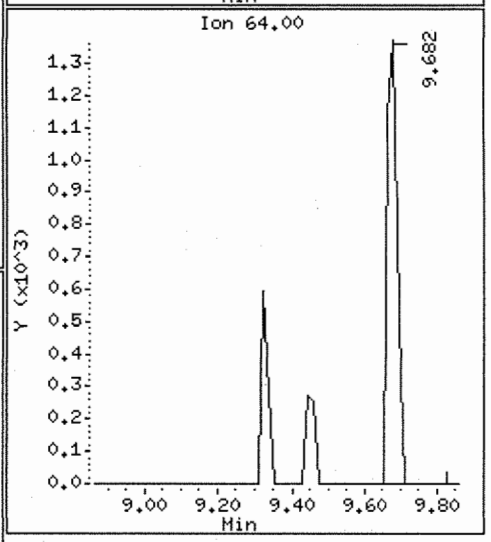












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070445.D

Date : 19-JAN-2007 05:23

Client ID: MWCL-7

Instrument: MSK.i

Sample Info: D0700056-014

Purge Volume: 10.0

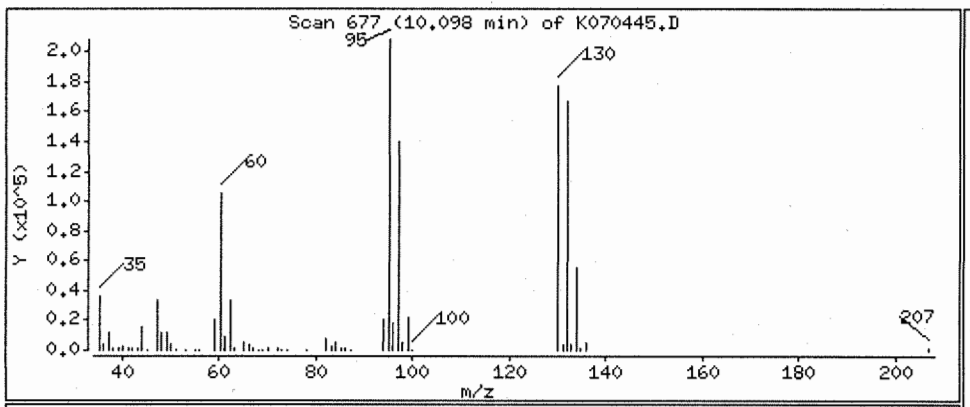
Operator: X

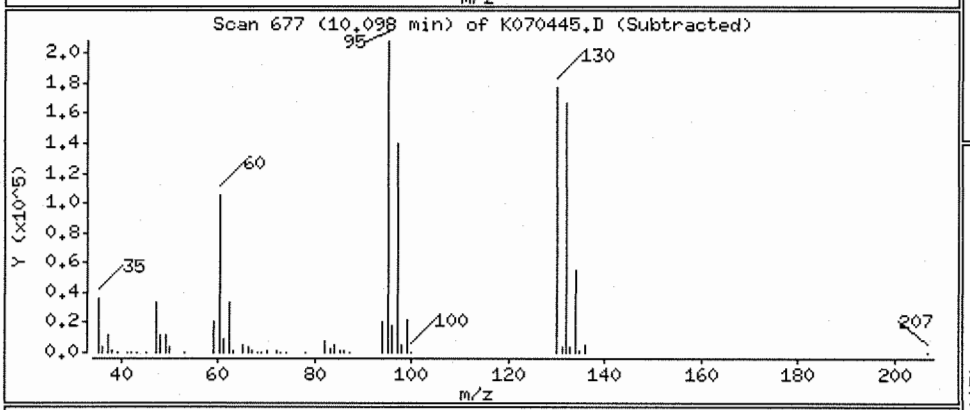
Column phase: DB-624

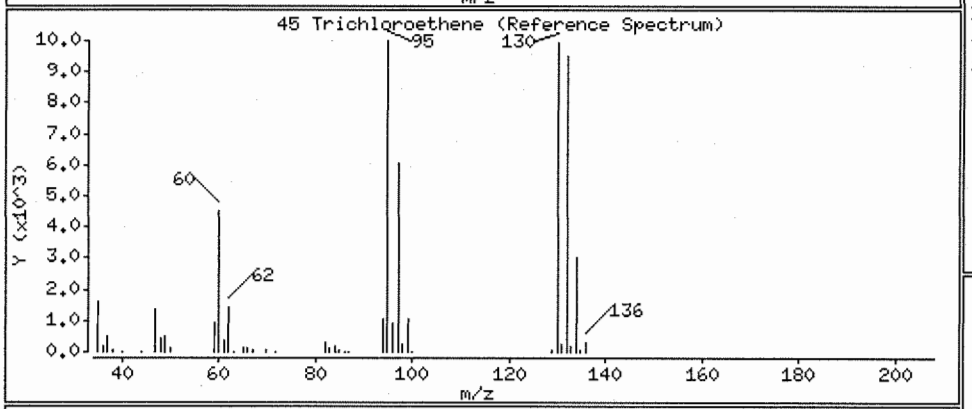
Column diameter: 0.32

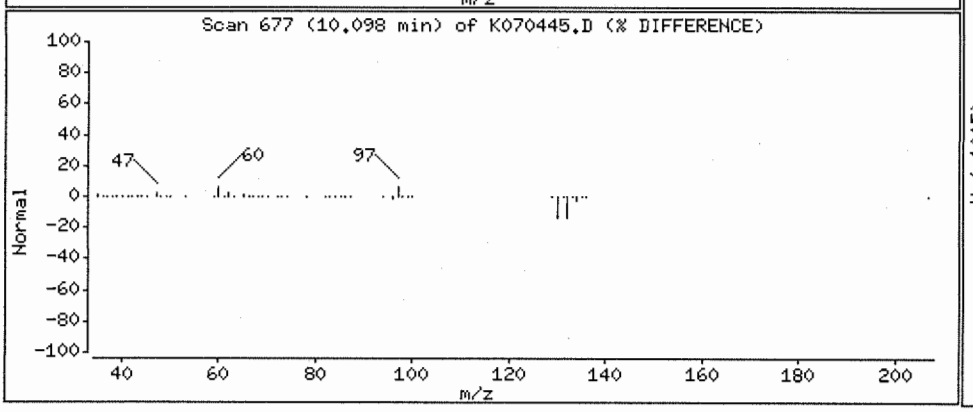
45 Trichloroethene

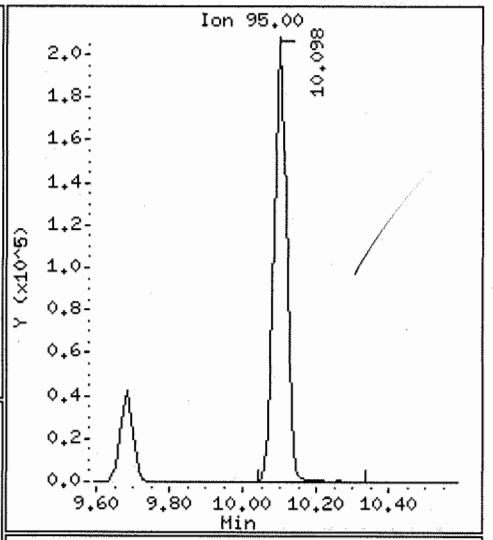
Concentration: 13.4 ug/L

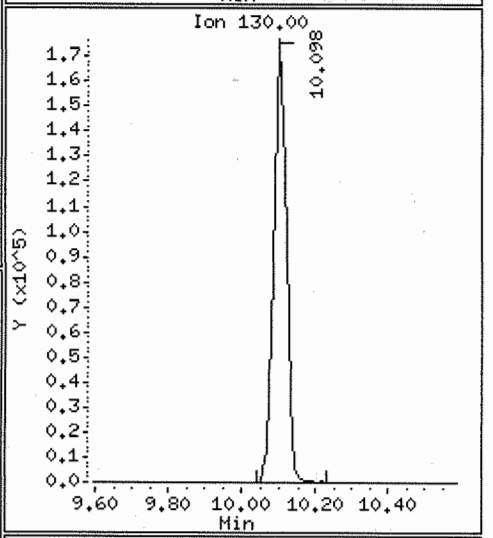


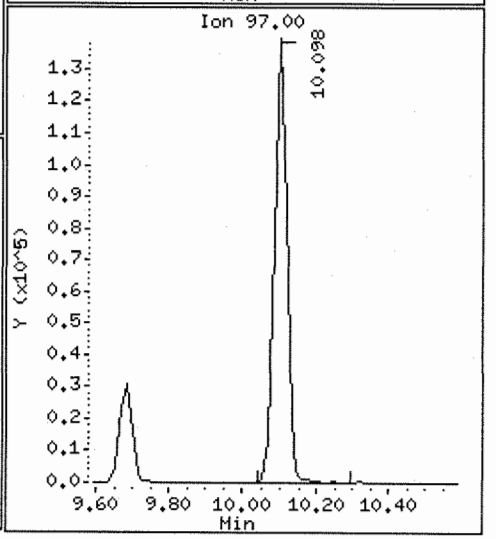












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Date : 19-JAN-2007 05:23

Client ID: MWCL-7

Instrument: MSK.i

Sample Info: D0700056-014

Purge Volume: 10.0

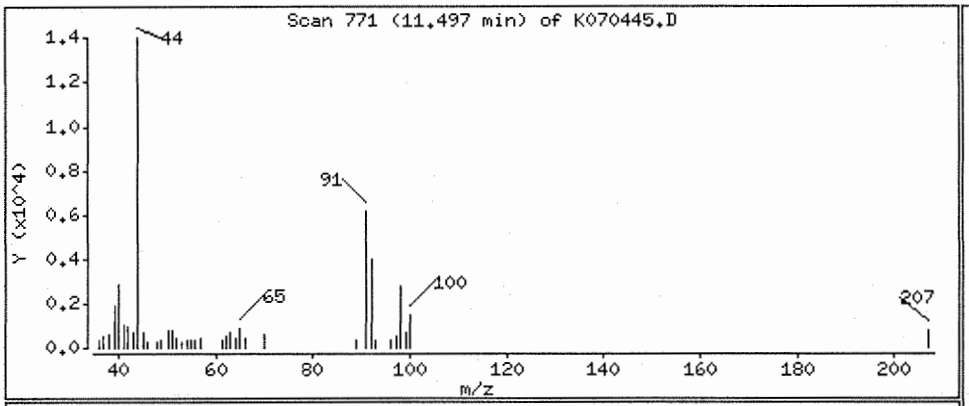
Operator: X

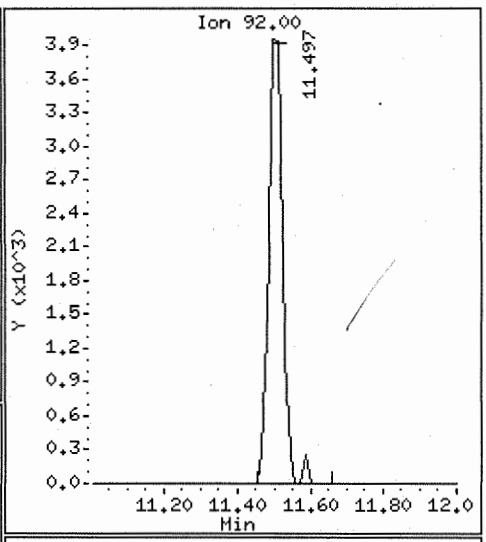
Column phase: DB-624

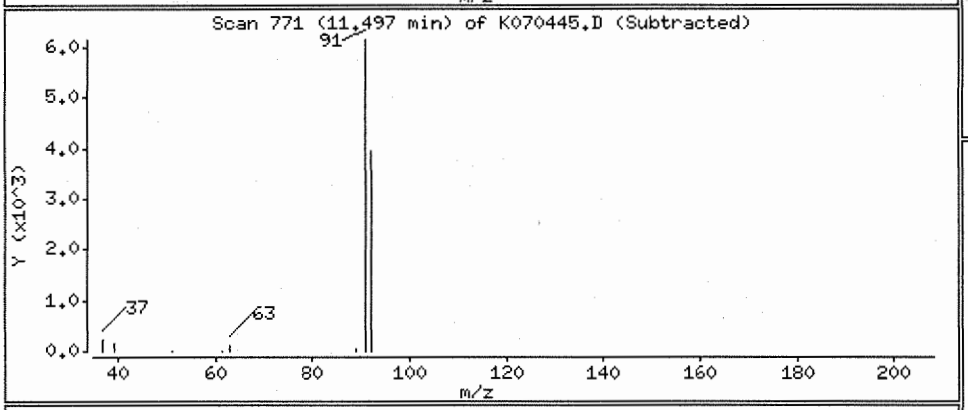
Column diameter: 0.32

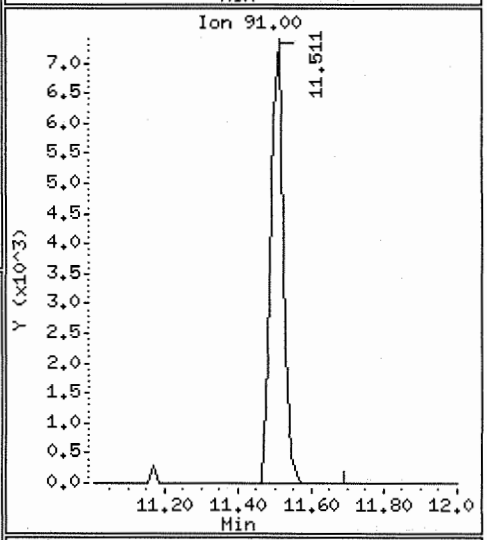
53 Toluene

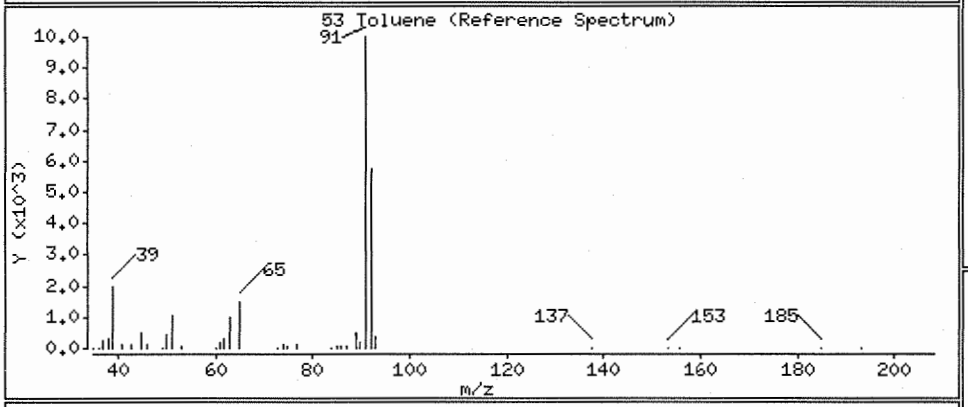
Concentration: 0.144 ug/L

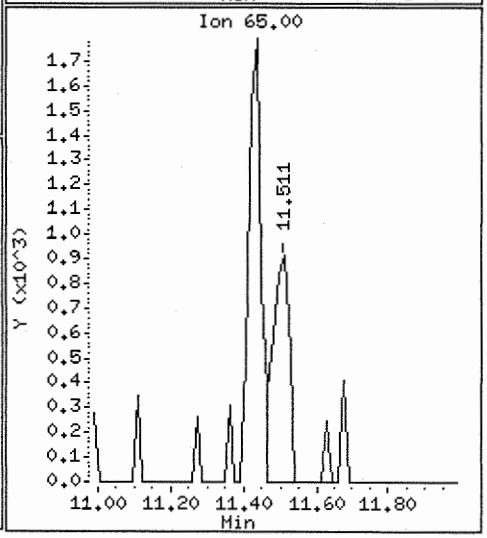


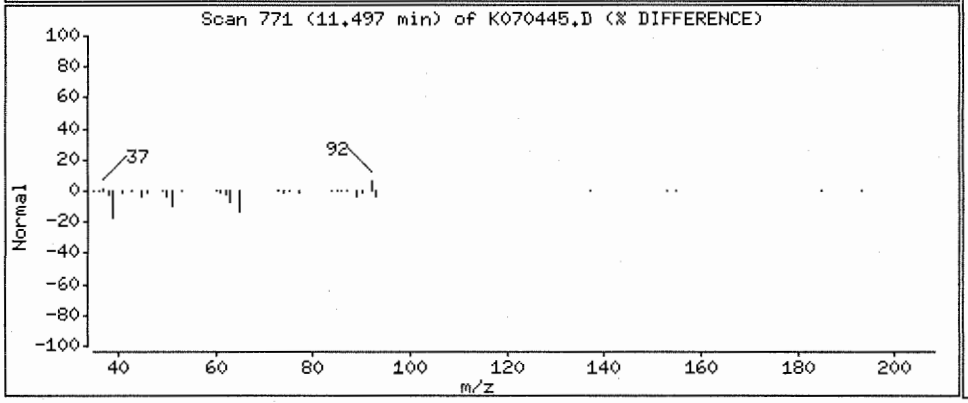












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070445.D

Date : 19-JAN-2007 05:23

Client ID: MWCL-7

Instrument: MSK.i

Sample Info: D0700056-014

Purge Volume: 10.0

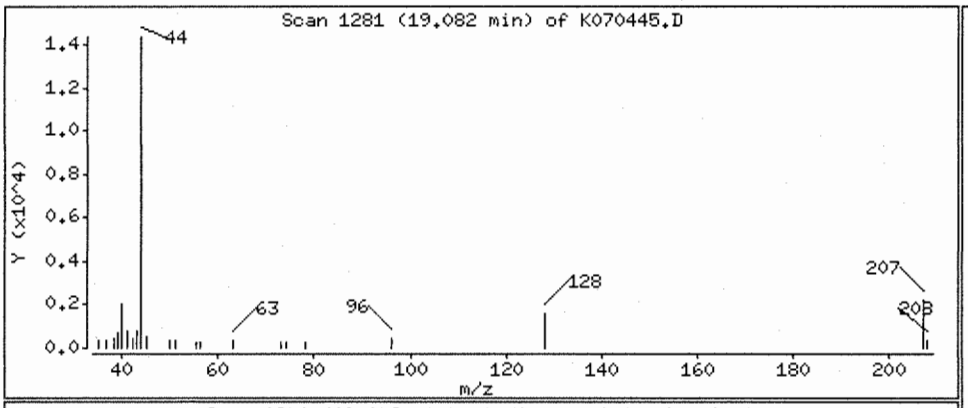
Operator: X

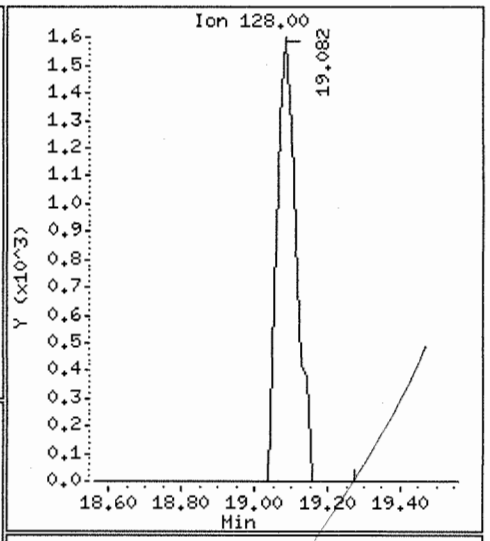
Column phase: DB-624

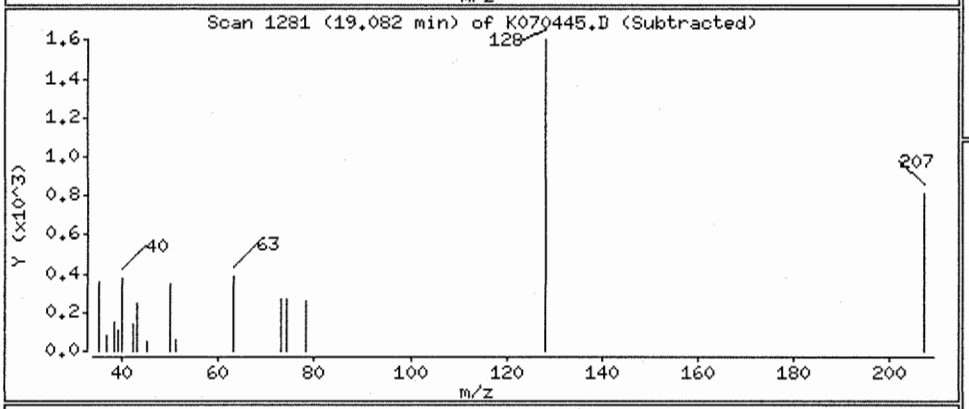
Column diameter: 0.32

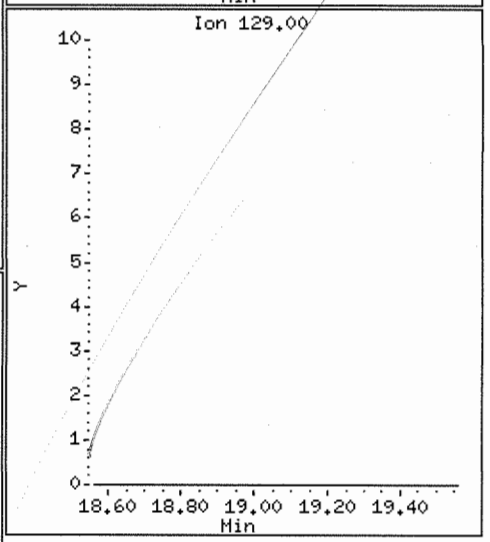
92 Naphthalene

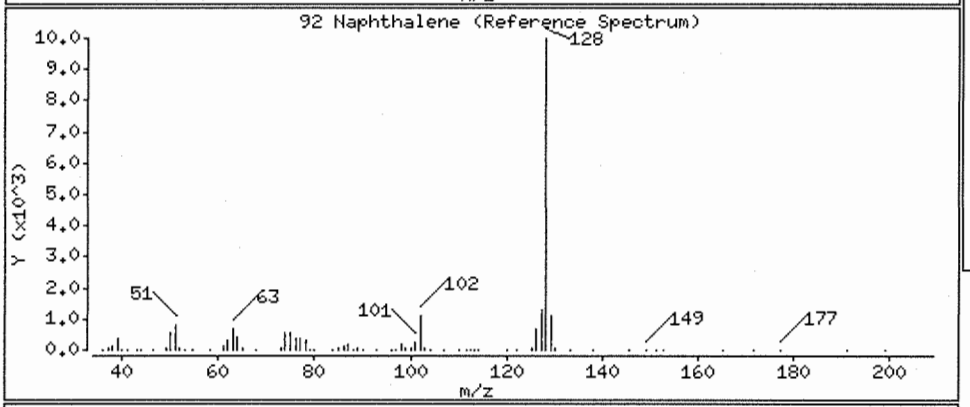
Concentration: 0.103 ug/L

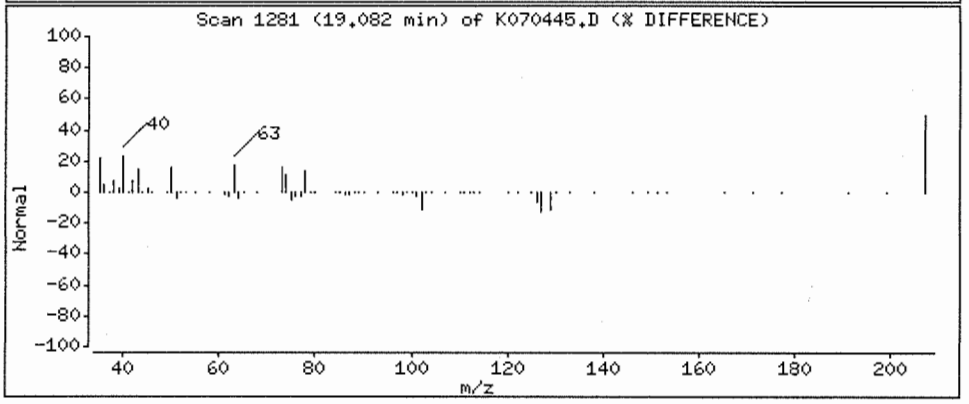












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-5
Lab Code: D0700056-015
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	**4.5**	J	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	**68**		0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	ND	U	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	**0.27**	J	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-5
Lab Code: D0700056-015
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	127	79-135	01/19/2007	
4-Bromofluorobenzene - SS	104	82-124	01/19/2007	
Dibromofluoromethane - SS	108	84-127	01/19/2007	
Toluene-d8 - SS	99	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070446.D
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Inj Date : 19-JAN-2007 05:50
Operator : X Inst ID: MSK.i
Smp Info : D0700056-015
Misc Info :
Comment :
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Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 48
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

B 01/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	9.688	9.673	(1.000)	1242931	10.0000	
*	2 Chlorobenzene-d5	117	13.020	13.020	(1.000)	829978	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.608	15.593	(1.000)	329782	10.0000	
$	4 Dibromofluoromethane	113	8.885	8.870	(0.917)	433957	10.8331	10.8
$	5 1,2-Dichloroethane-d4	65	9.287	9.287	(0.959)	467906	12.6968	12.7
$	6 Toluene-d8	98	11.429	11.414	(0.878)	1069544	9.93280	9.93
$	7 Bromofluorobenzene	174	14.285	14.284	(0.915)	311346	10.4345	10.4
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	Compound Not Detected.					
	12 Bromomethane	94	4.646	4.646	(0.480)	3585	0.77482	0.775(aQ)
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	17 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	6.074	6.059	(0.627)	59969	4.52907	4.53(a)
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Methylene chloride	84	Compound Not Detected.					
	26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	27 tert-Butylmethylether	73	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 Vinyl acetate	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.335	8.335	(0.860)	2799974	68.5426	68.5
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.674	9.361	(0.998)	17716	0.38154	0.382(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	11.503	11.503	(0.883)	21074	0.27330	0.273(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

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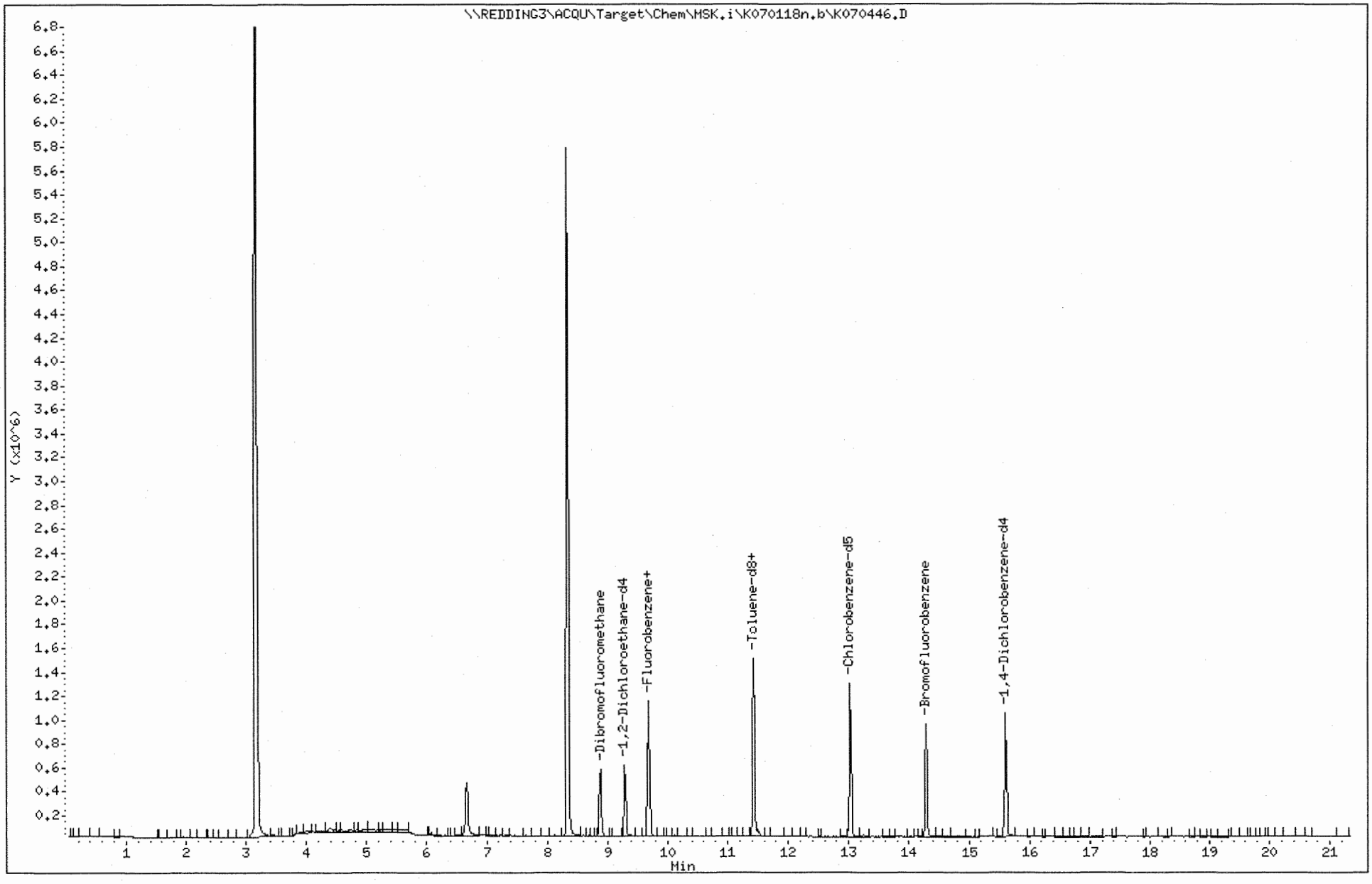
Date : 19-JAN-2007 05:50
Client ID: MWCL-5
Sample Info: D0700056-015
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



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Date : 19-JAN-2007 05:50

Client ID: MWCL-5

Instrument: MSK.i

Sample Info: D0700056-015

Purge Volume: 10.0

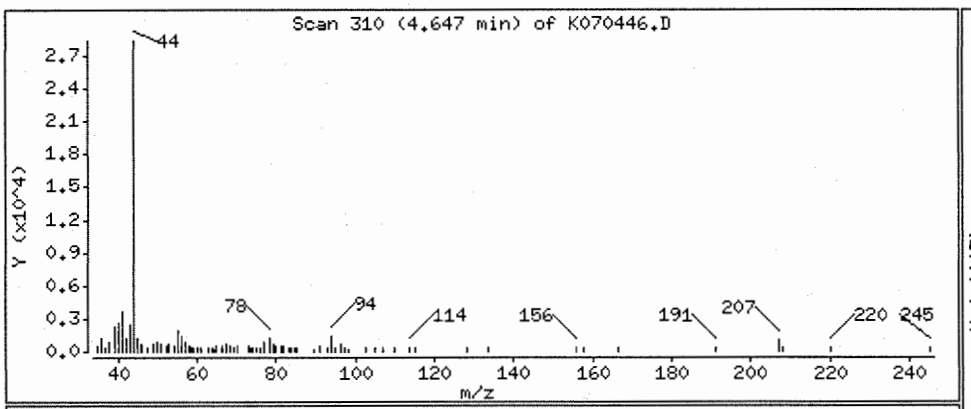
Operator: X

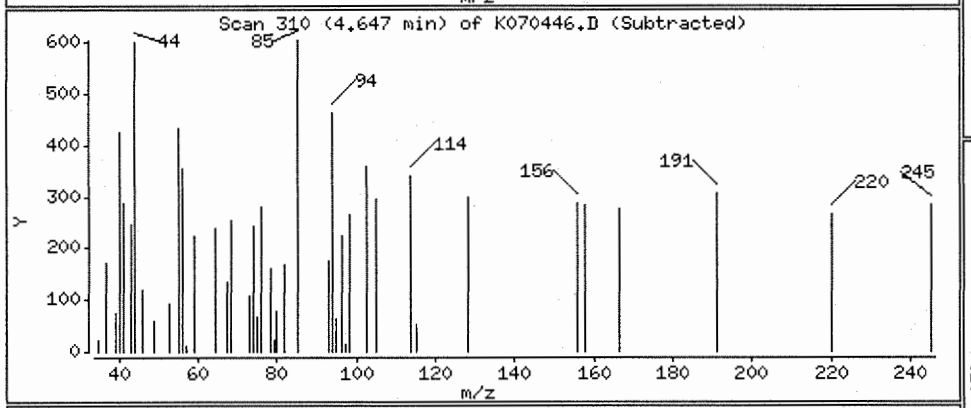
Column phase: DB-624

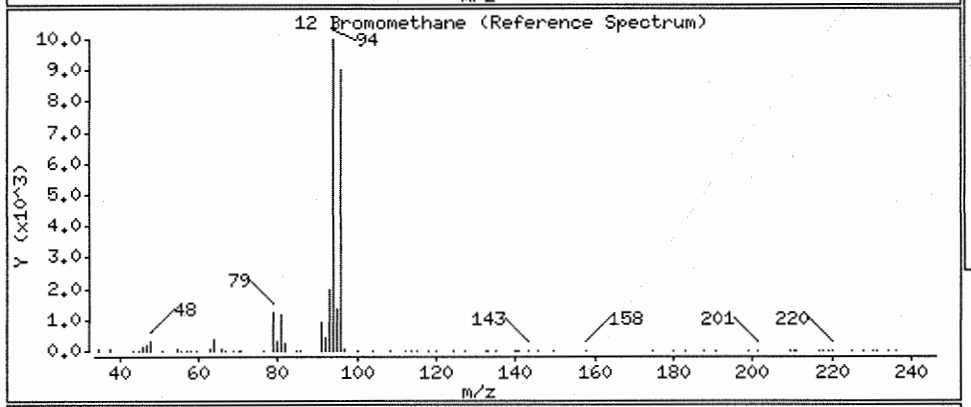
Column diameter: 0.32

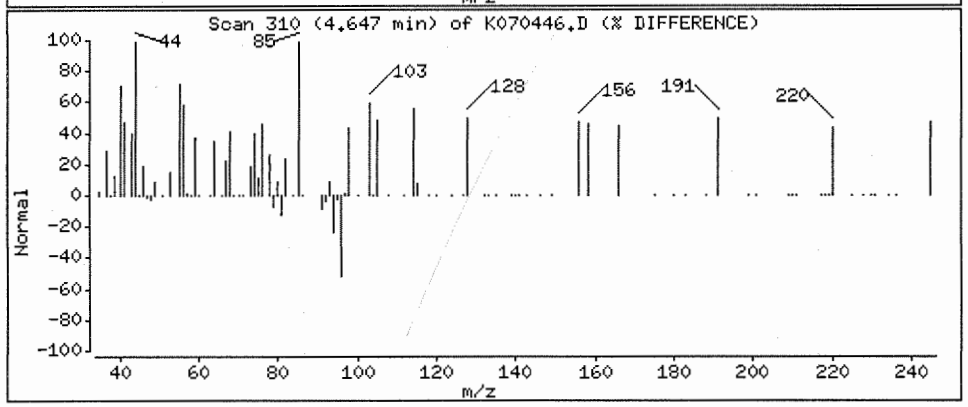
12 Bromomethane

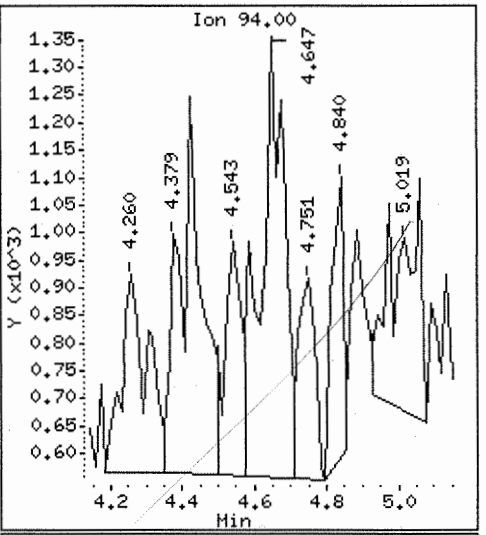
Concentration: 0.775 ug/L

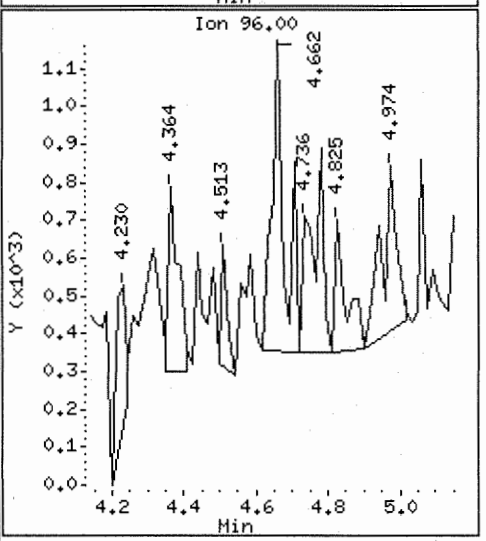












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070446.D

Date : 19-JAN-2007 05:50

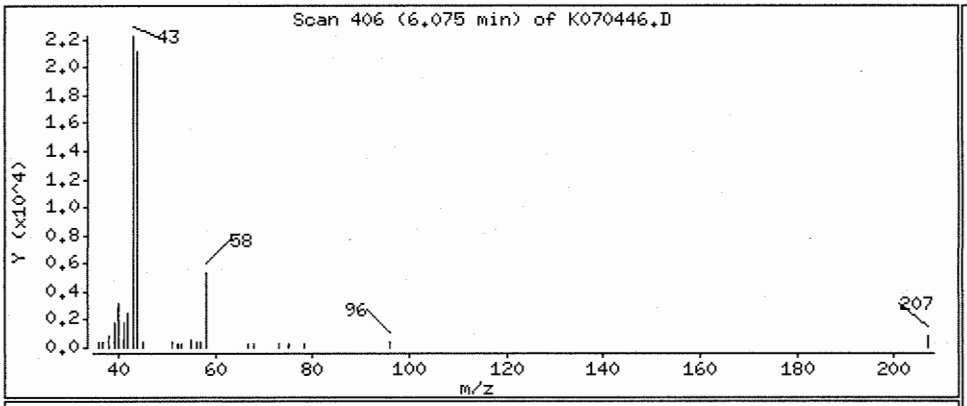
Client ID: MWCL-5 Instrument: MSK.i

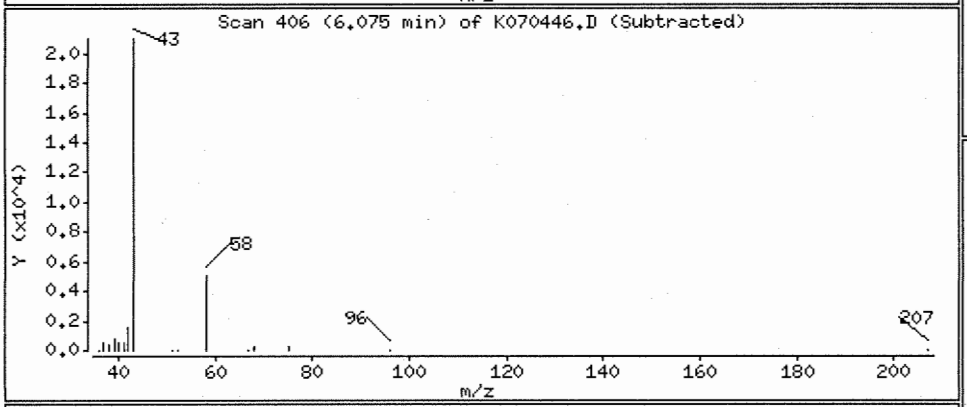
Sample Info: D0700056-015

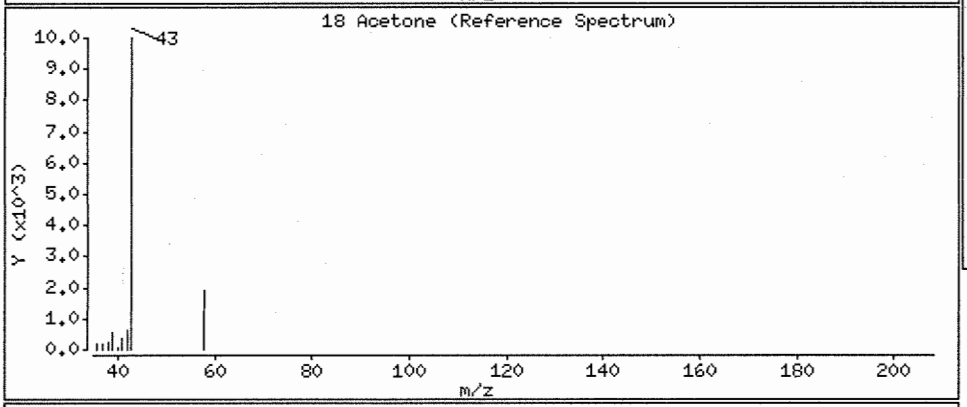
Purge Volume: 10.0 Operator: X

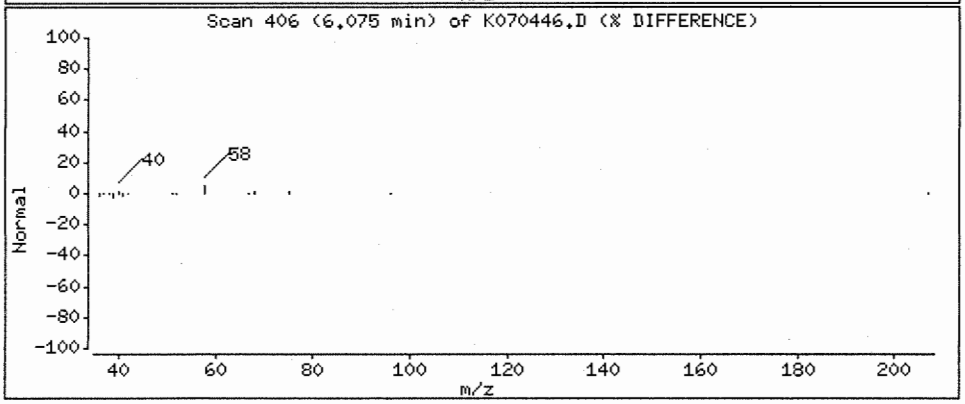
Column phase: DB-624 Column diameter: 0.32

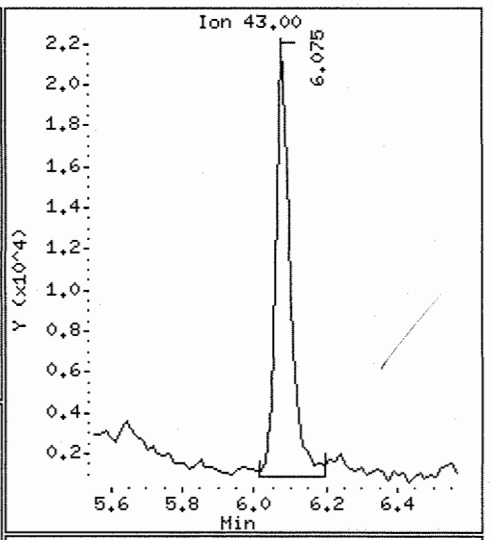
18 Acetone Concentration: 4.53 ug/L

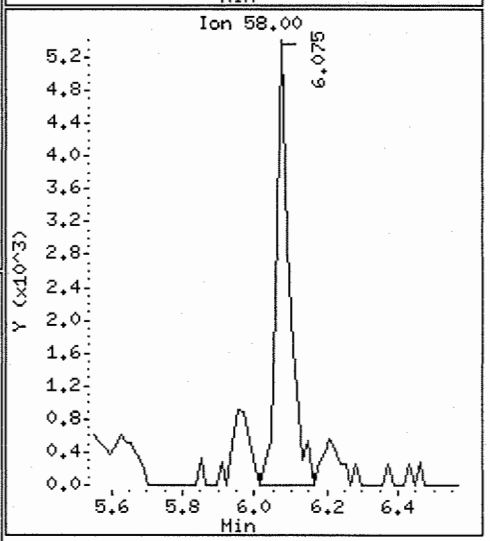












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070446.D

Date : 19-JAN-2007 05:50

Client ID: MWCL-5

Instrument: MSK.i

Sample Info: D0700056-015

Purge Volume: 10.0

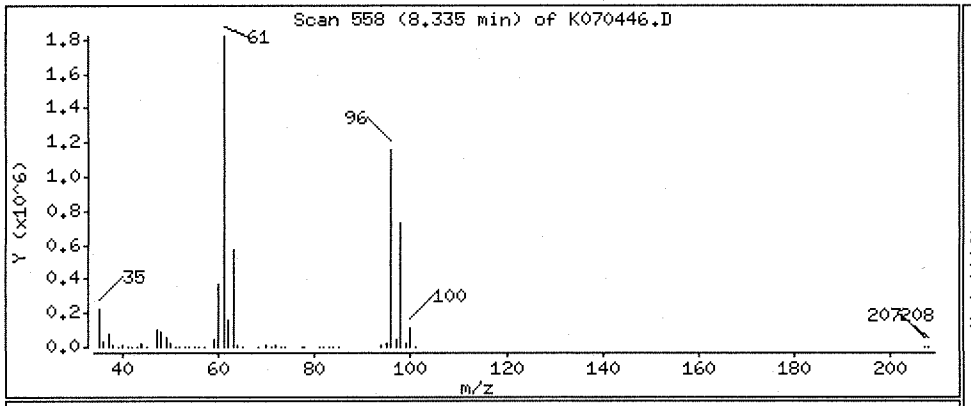
Operator: X

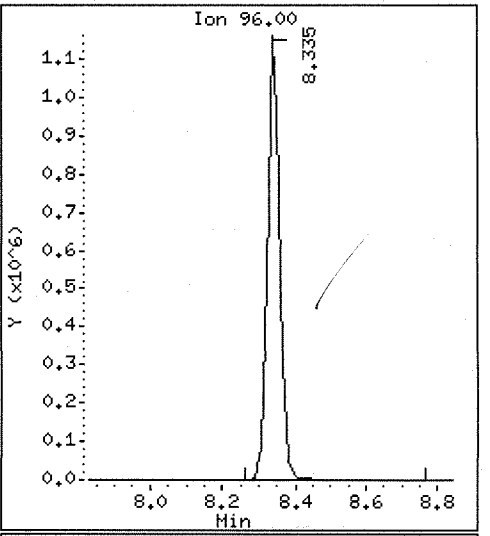
Column phase: DB-624

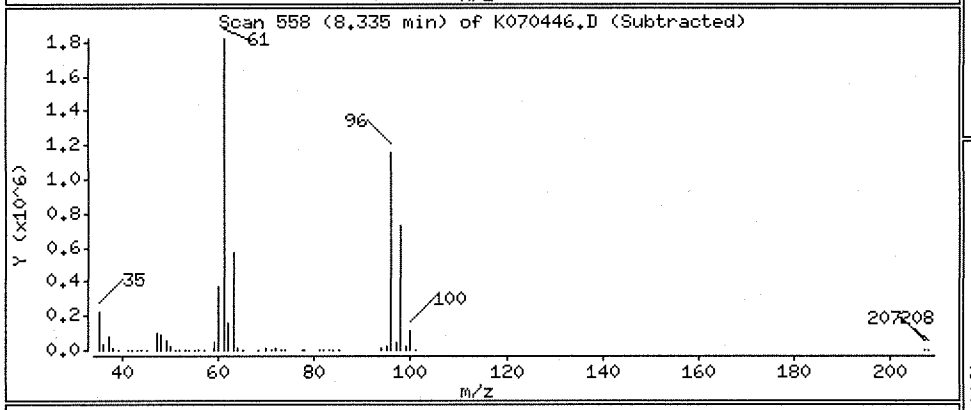
Column diameter: 0.32

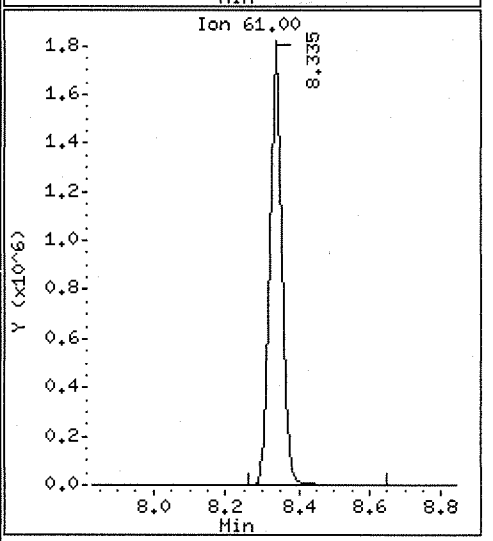
33 cis-1,2-Dichloroethene

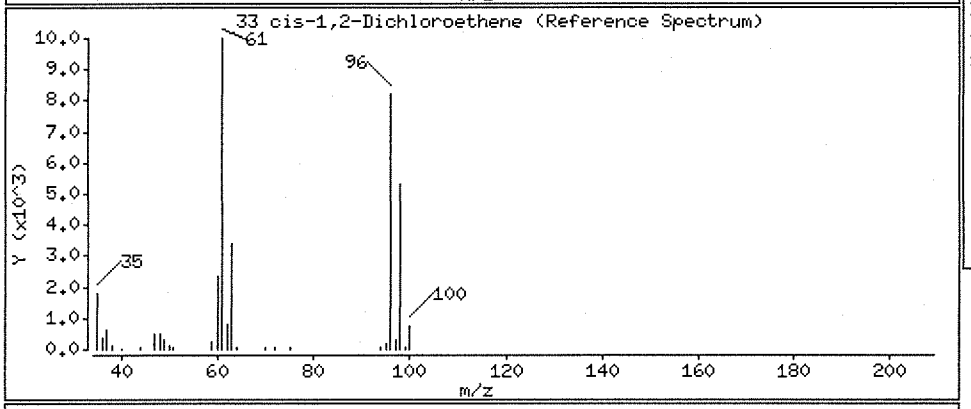
Concentration: 68.5 ug/L

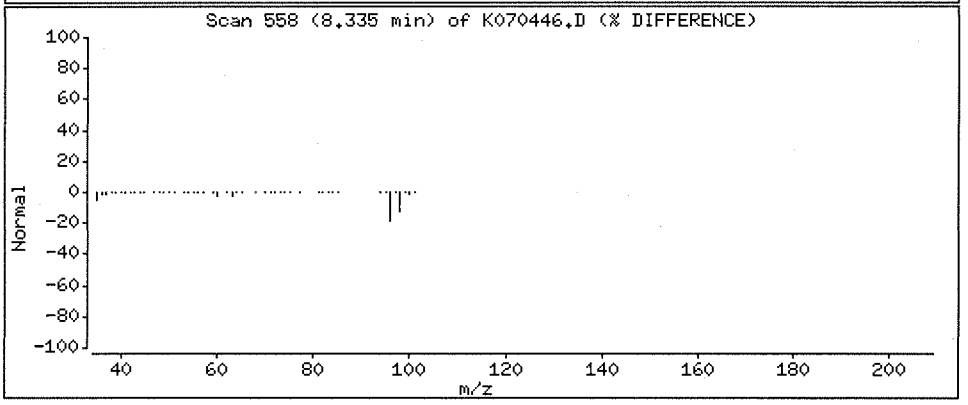












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070446.D

Date : 19-JAN-2007 05:50

Client ID: MWCL-5

Instrument: MSK.i

Sample Info: D0700056-015

Purge Volume: 10.0

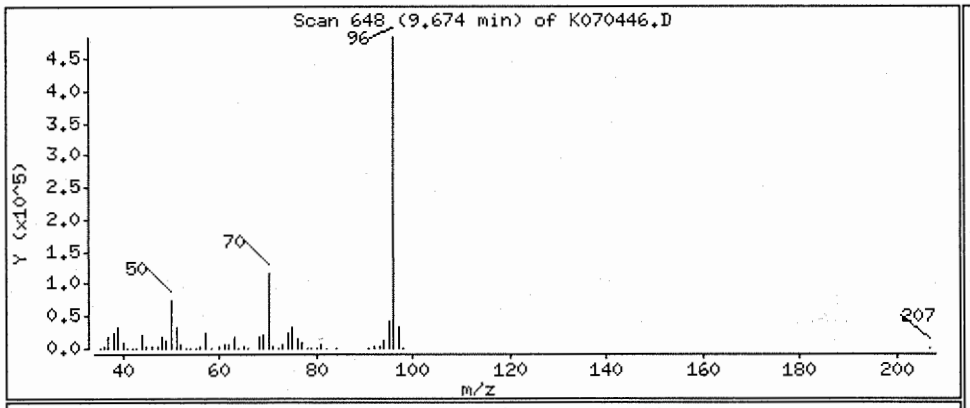
Operator: X

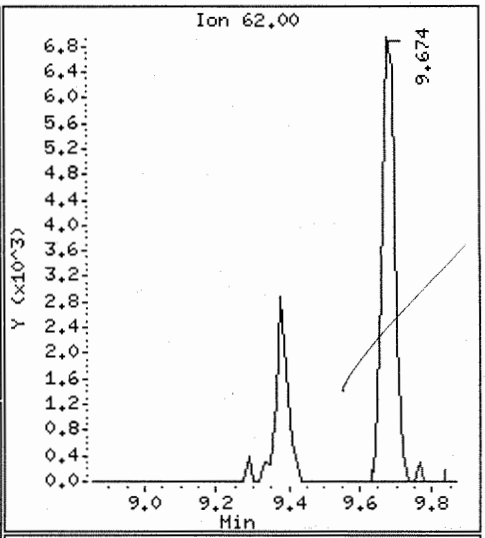
Column phase: DB-624

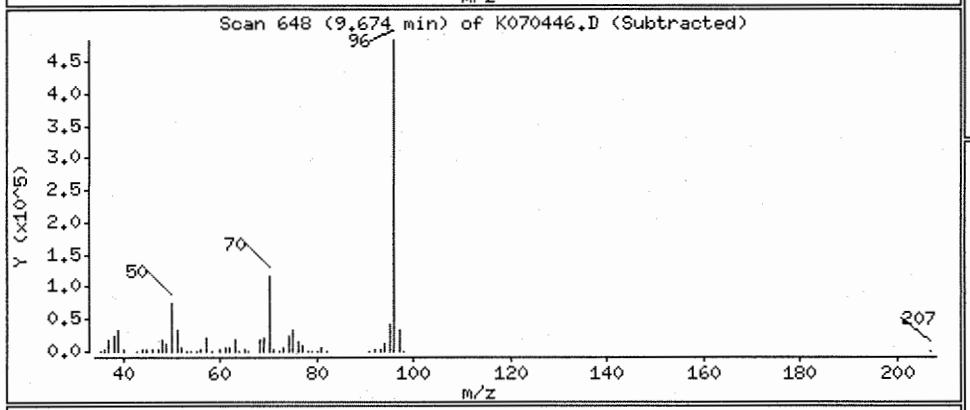
Column diameter: 0.32

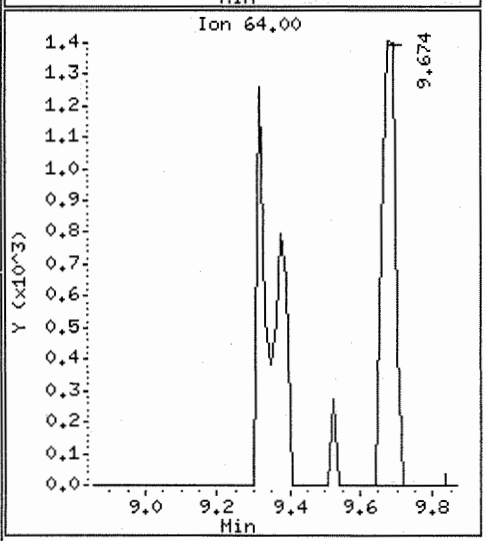
44 1,2-Dichloroethane

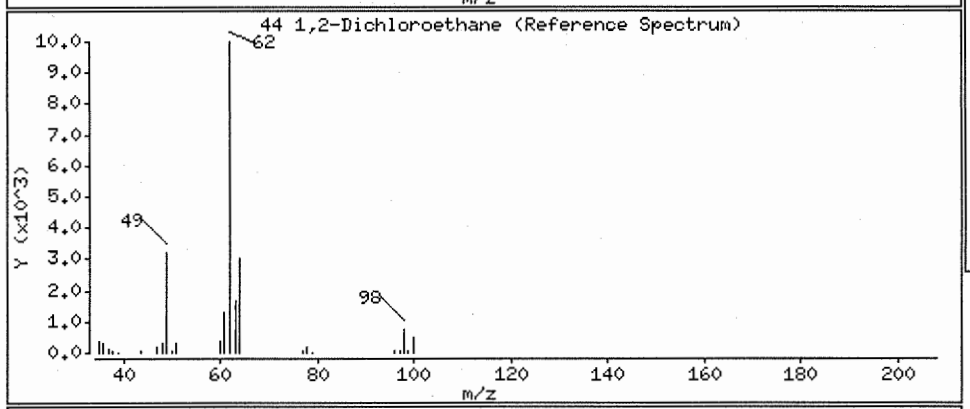
Concentration: 0.382 ug/L

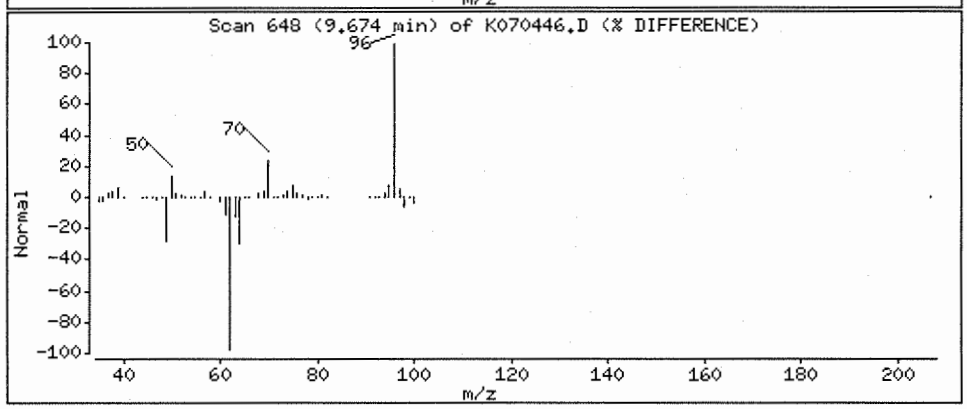












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070446.D

Date : 19-JAN-2007 05:50

Client ID: MWCL-5

Instrument: MSK.i

Sample Info: D0700056-015

Purge Volume: 10.0

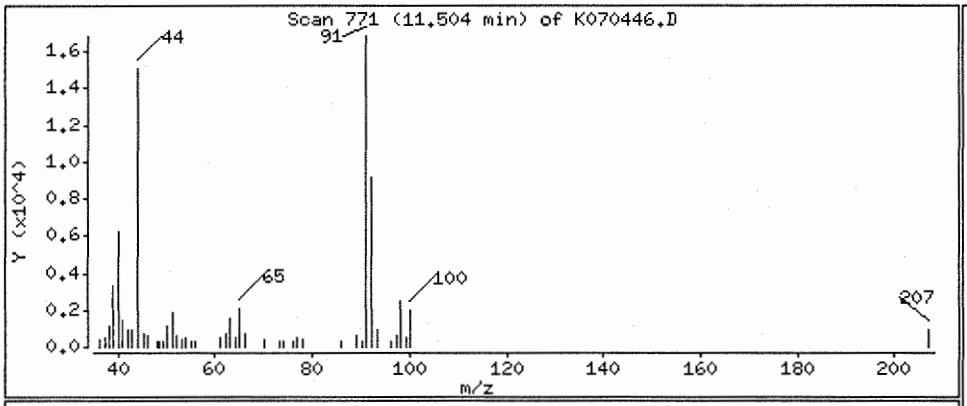
Operator: X

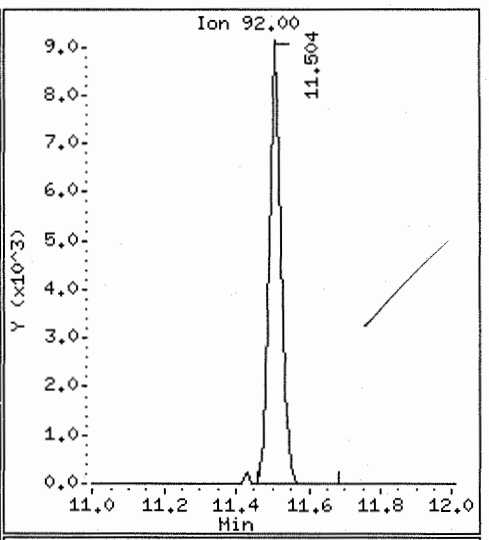
Column phase: DB-624

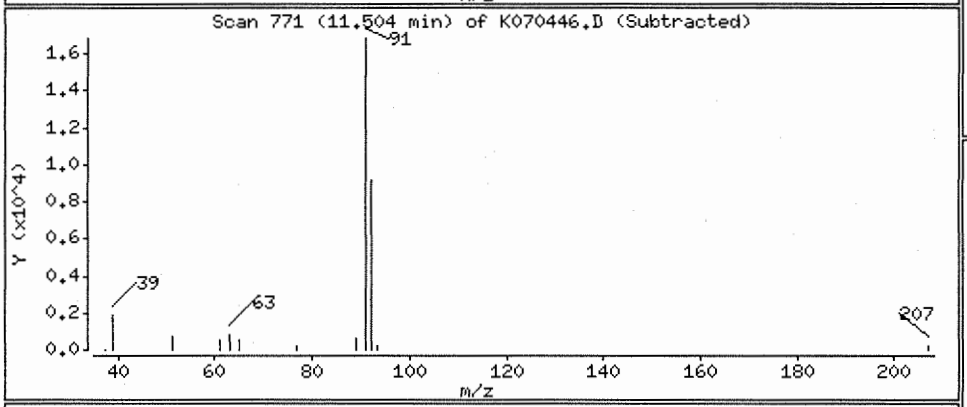
Column diameter: 0.32

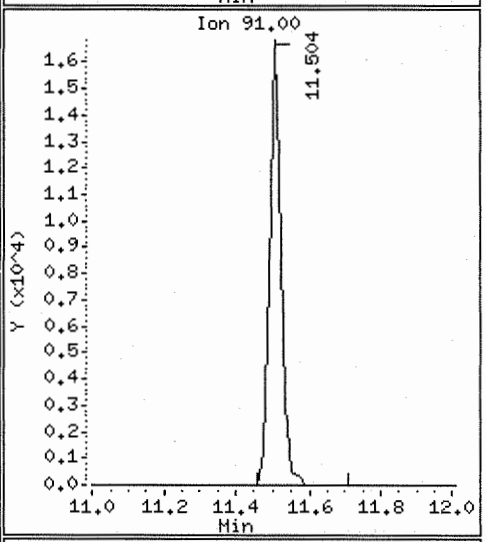
53 Toluene

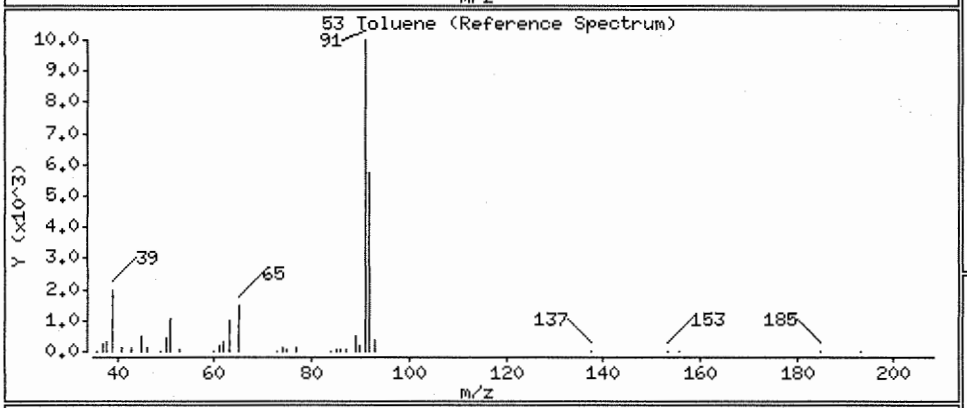
Concentration: 0.273 ug/L

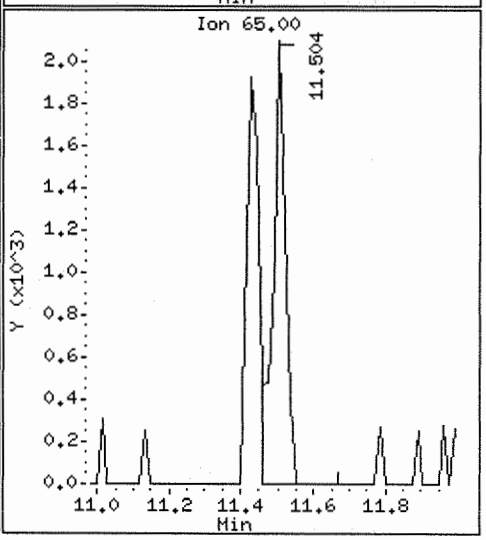


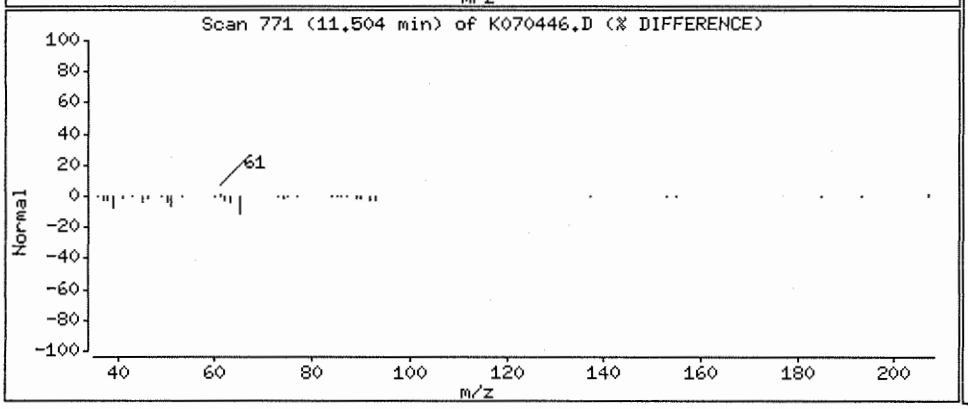












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-8
Lab Code: D0700056-016
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloromethane	ND	U	0.24	1.0	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Chloride	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromomethane	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chloroethane	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Acetone	ND	U	0.91	10	1	01/19/2007	01/19/2007	K0118W02	
Carbon Disulfide	ND	U	0.14	2.0	1	01/19/2007	01/19/2007	K0118W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	01/19/2007	01/19/2007	K0118W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Vinyl Acetate	ND	U	0.24	10	1	01/19/2007	01/19/2007	K0118W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Butanone (MEK)	ND	U	0.66	10	1	01/19/2007	01/19/2007	K0118W02	
Bromochloromethane	ND	U	0.17	0.50	1	01/19/2007	01/19/2007	K0118W02	
Chloroform	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
Benzene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	01/19/2007	01/19/2007	K0118W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	01/19/2007	01/19/2007	K0118W02	
Dibromomethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromodichloromethane	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	01/19/2007	01/19/2007	K0118W02	
Toluene	ND	U	0.13	0.50	1	01/19/2007	01/19/2007	K0118W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
2-Hexanone	ND	U	0.49	10	1	01/19/2007	01/19/2007	K0118W02	
Dibromochloromethane	ND	U	0.12	1.0	1	01/19/2007	01/19/2007	K0118W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: 01/12/2007
Date Received: 01/13/2007

Volatile Organic Compounds

Sample Name: MWCL-8
Lab Code: D0700056-016
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	01/19/2007	01/19/2007	K0118W02	
Chlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	01/19/2007	01/19/2007	K0118W02	
Ethylbenzene	ND	U	0.11	0.50	1	01/19/2007	01/19/2007	K0118W02	
Xylenes, Total	ND	U	0.10	1.5	1	01/19/2007	01/19/2007	K0118W02	
Styrene	ND	U	0.070	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromoform	ND	U	0.18	1.0	1	01/19/2007	01/19/2007	K0118W02	
Isopropylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
Bromobenzene	ND	U	0.13	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Propylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	01/19/2007	01/19/2007	K0118W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	01/19/2007	01/19/2007	K0118W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	01/19/2007	01/19/2007	K0118W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	01/19/2007	01/19/2007	K0118W02	
n-Butylbenzene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	01/19/2007	01/19/2007	K0118W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	01/19/2007	01/19/2007	K0118W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	01/19/2007	01/19/2007	K0118W02	
Naphthalene	ND	U	0.10	1.0	1	01/19/2007	01/19/2007	K0118W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	01/19/2007	01/19/2007	K0118W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	110	79-135	01/19/2007	
4-Bromofluorobenzene - SS	101	82-124	01/19/2007	
Dibromofluoromethane - SS	102	84-127	01/19/2007	
Toluene-d8 - SS	101	80-117	01/19/2007	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070448.D
Lab Smp Id: D0700056-016 Client Smp ID: MWCL-8
Inj Date : 19-JAN-2007 06:43
Operator : X Inst ID: MSK.i
Smp Info : D0700056-016
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\8260w10(0.5).m
Meth Date : 19-Jan-2007 09:52 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 14:25 Cal File: K070150.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

BCl 1/19/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.682	9.673	(1.000)	1228583	10.0000	
* 2	Chlorobenzene-d5	117	13.028	13.020	(1.000)	797621	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.601	15.593	(1.000)	323511	10.0000	
$ 4	Dibromofluoromethane	113	8.878	8.870	(0.917)	404393	10.2130	10.2
$ 5	1,2-Dichloroethane-d4	65	9.295	9.287	(0.960)	401932	11.0339	11.0
$ 6	Toluene-d8	98	11.422	11.414	(0.877)	1040297	10.0531	10.0
$ 7	Bromofluorobenzene	174	14.293	14.284	(0.916)	294997	10.0783	10.1
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.550	4.646	(0.470)	716	0.64486	0.645 (JQ)
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

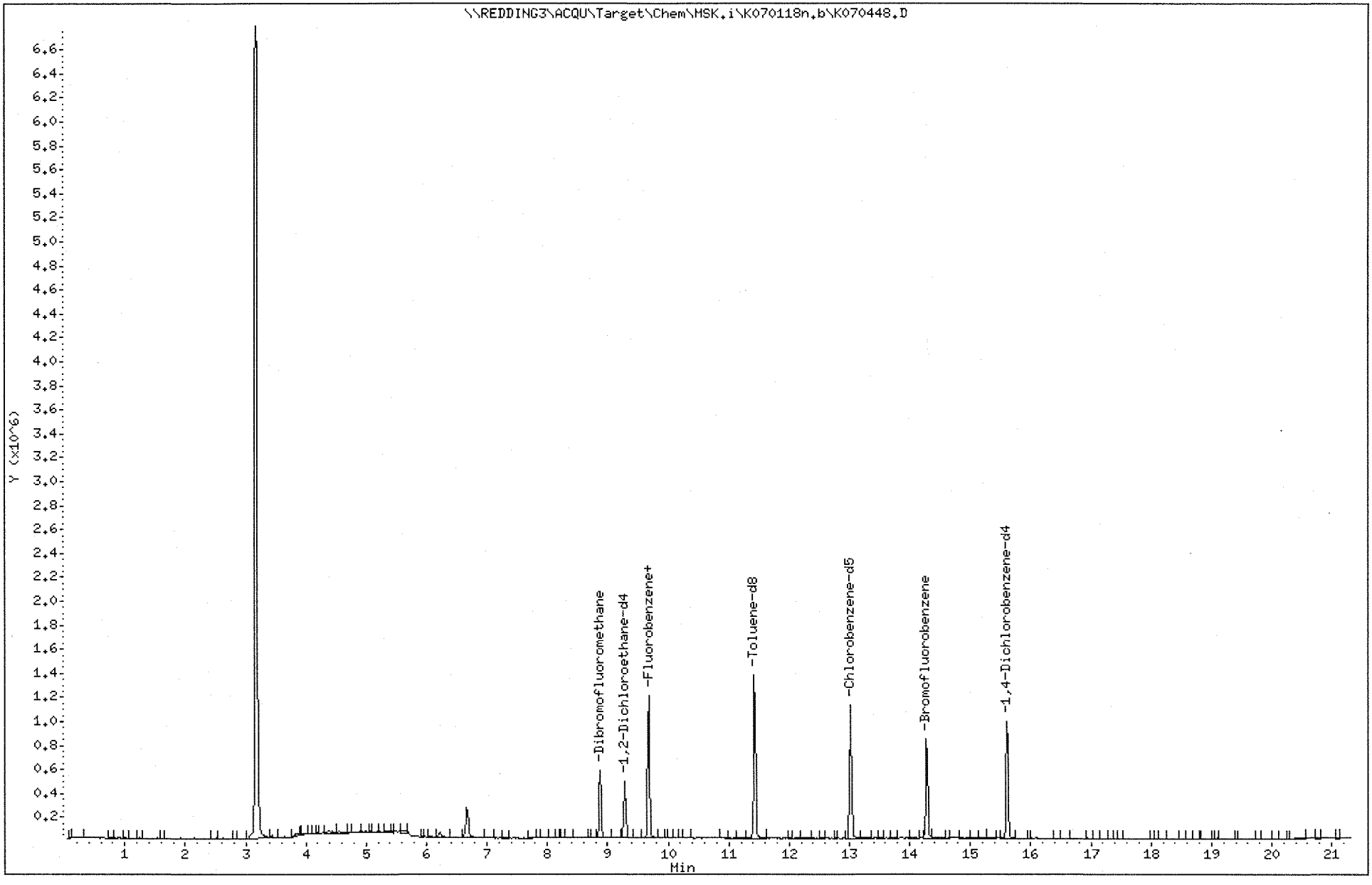
JC 1/19/7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.682	9.361	(1.000)	17670	0.38499	0.385(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070448.D
Date : 19-JAN-2007 06:43
Client ID: MWCL-8
Instrument: MSK.i
Sample Info: D0700056-016
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070448.D

Date : 19-JAN-2007 06:43

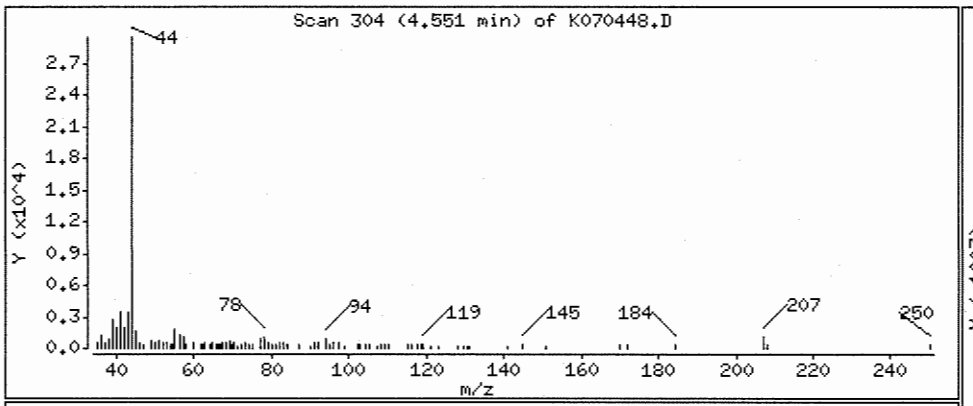
Client ID: MWCL-8 Instrument: MSK.i

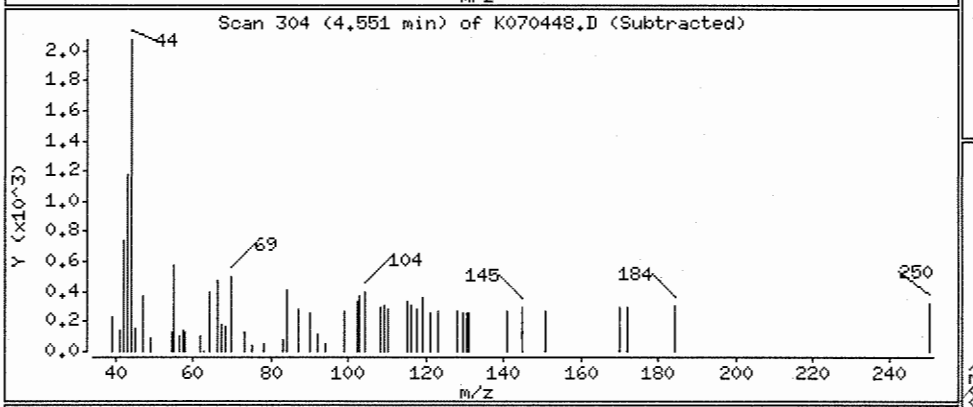
Sample Info: D0700056-016

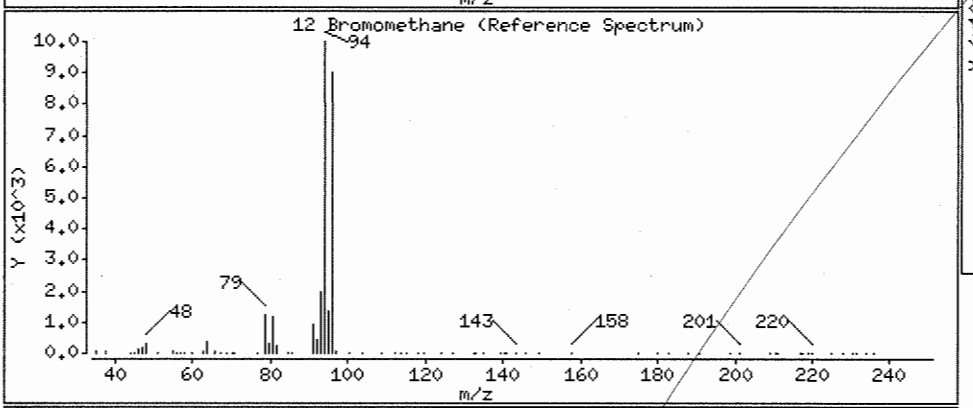
Purge Volume: 10.0 Operator: X

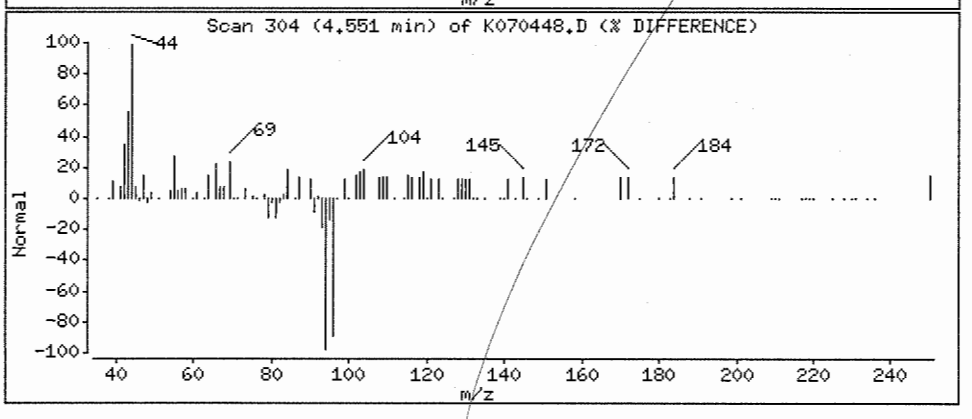
Column phase: DB-624 Column diameter: 0.32

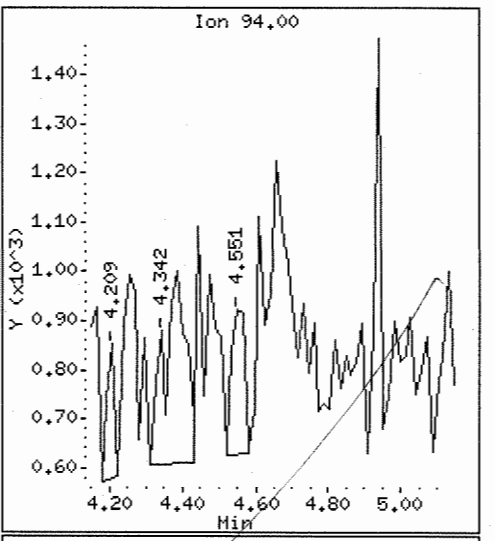
12 Bromomethane Concentration: 0.645 ug/L

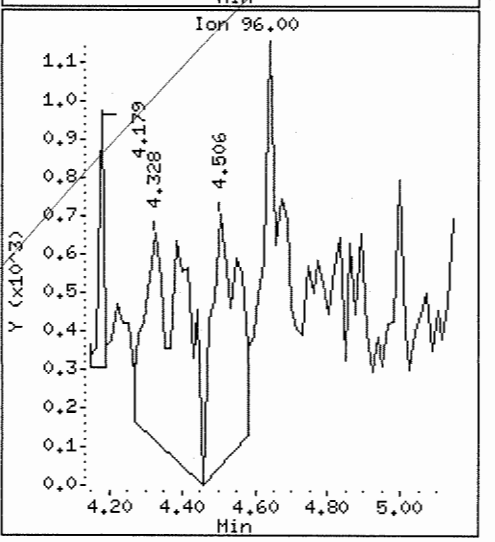












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070118n.b\K070448.D

Date : 19-JAN-2007 06:43

Client ID: MWCL-8

Instrument: MSK.i

Sample Info: D0700056-016

Purge Volume: 10.0

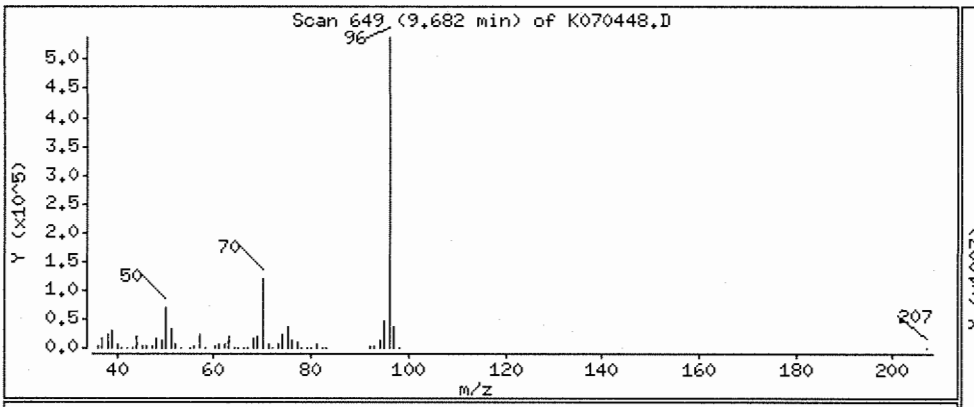
Operator: X

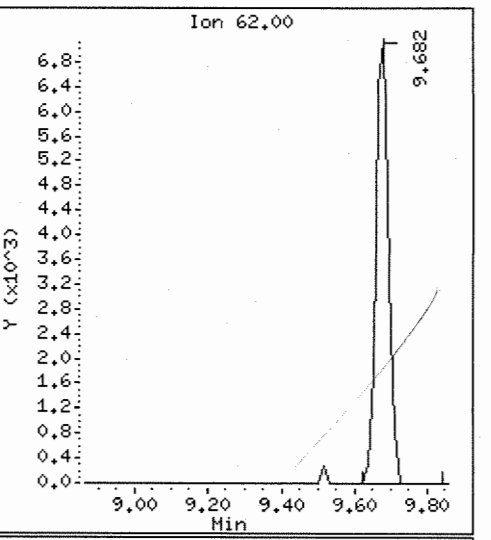
Column phase: DB-624

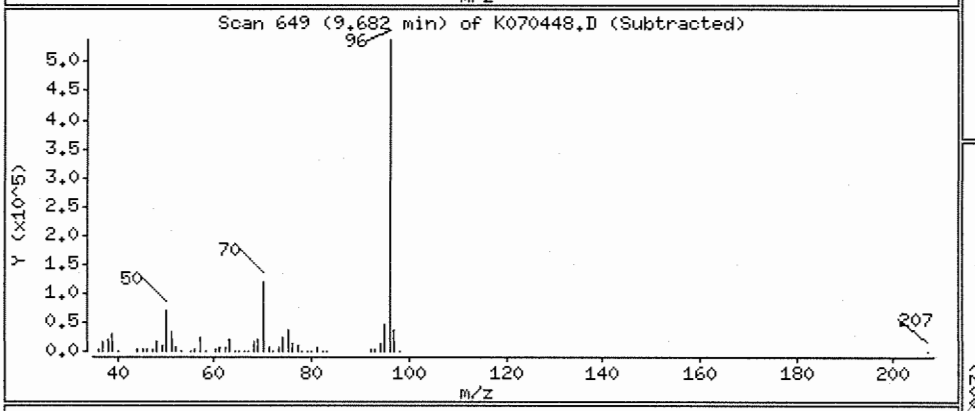
Column diameter: 0.32

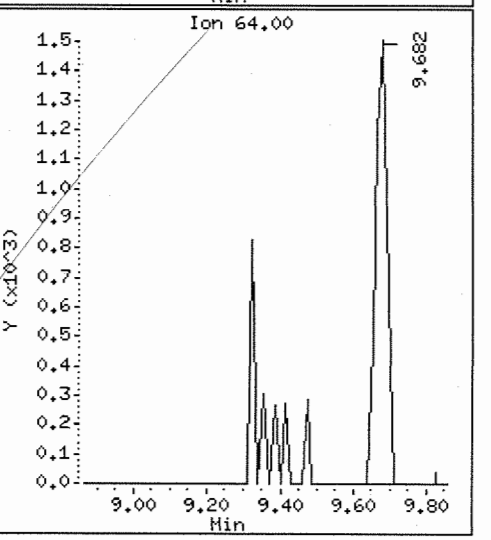
44 1,2-Dichloroethane

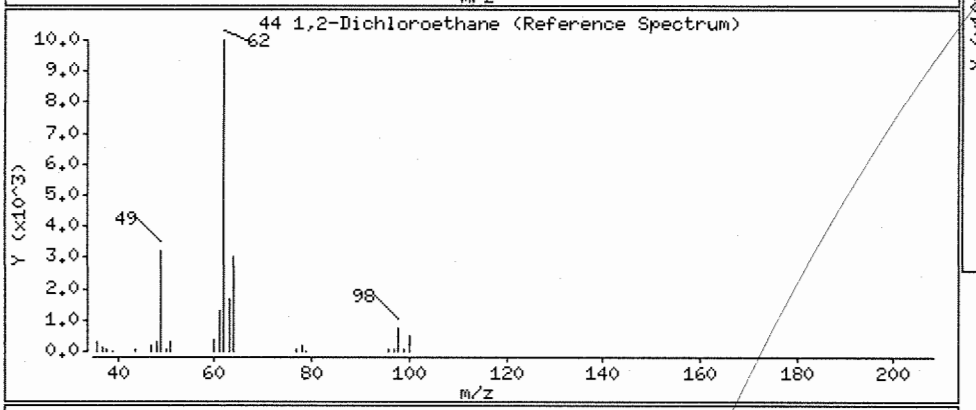
Concentration: 0.385 ug/L

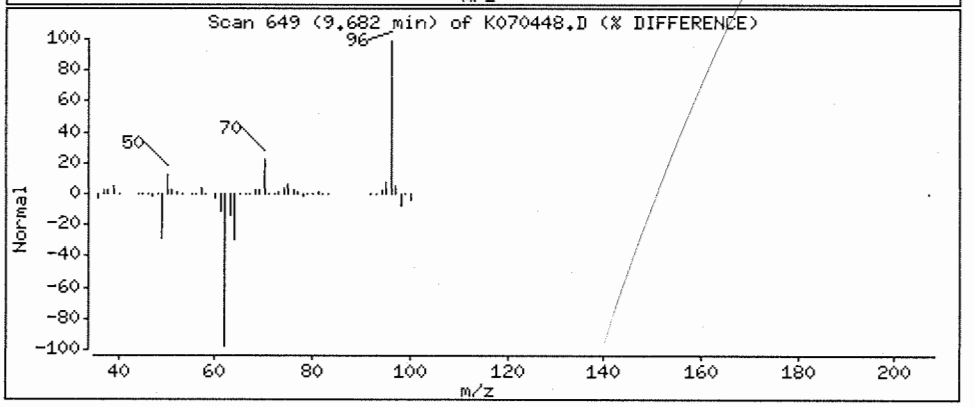












QC Summary

Client: GeoSyntec Consultants **Service Request:** D0700056
Project: TDY
Sample Matrix: Water

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030 **Units:** Percent
Analysis Method: SW8260

Sample Name	Lab Code	Q	S1	S2	S3	S4
Laboratory Control Sample	K0116W02LCS		100	95	96	100
Laboratory Control Sample Duplicate	K0116W02LCSD		99	97	97	96
Method Blank	K0116W02		104	102	100	101
BLD120-MW-2	D0700056-004		108	103	102	98
BLD120-MW-3	D0700056-005		104	101	100	101
Laboratory Control Sample	K0118W02LCS		103	95	95	101
Laboratory Control Sample Duplicate	K0118W02LCSD		104	97	100	100
Method Blank	K0118W02		111	104	100	101
QCEB	D0700056-003		106	96	99	94
BLD120-MW-4	D0700056-006		112	100	103	100
BLD120-MW-5	D0700056-007		115	103	106	103
BLD102-MW-4	D0700056-008		108	96	101	98
MWCL-1	D0700056-009		123	103	107	99
MWCL-2	D0700056-010		128	110	117	107
MWCL-3	D0700056-011		118	102	104	97
MWCL-4	D0700056-012		112	104	106	101
MWCL-6	D0700056-013		115	101	105	102
MWCL-7	D0700056-014		121	103	103	94
MWCL-5	D0700056-015		127	104	108	99
MWCL-8	D0700056-016		110	101	102	101
BLD120-MW-1	D0700056-001		111	100	103	100
BLD120-MW-6	D0700056-002		115	104	106	102

Surrogate Recovery Control Limits (%)

S1:	1,2-Dichloroethane-d4 - SS	79-135
S2:	4-Bromofluorobenzene - SS	82-124
S3:	Dibromofluoromethane - SS	84-127
S4:	Toluene-d8 - SS	80-117

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/16/2007
Time Analyzed: 2356

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: K070344
Instrument ID: MSK
Analysis Method: SW8260

Analysis Lot: MSK01/16/2007

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	1144696	9.69	770748	13.02	338289	15.61
Upper Limit ==>	2289392	10.19	1541496	13.52	676578	16.11
Lower Limit ==>	572348	9.19	385374	12.52	169145	15.11

Associated Analyses

Laboratory Control Sample	K0116W02LCS	1143332	9.69	767682	13.02	346692	15.61
Laboratory Control Sample Duplicate	K0116W02LCSD	1147838	9.69	789509	13.02	341012	15.61
Method Blank	K0116W02	1104227	9.68	753116	13.03	316674	15.62
BLD120-MW-2	D0700056-004	1155863	9.68	795045	13.03	320833	15.62
BLD120-MW-3	D0700056-005	1200799	9.68	797096	13.03	332031	15.62

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/18/2007
Time Analyzed: 2219

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: K070429
Instrument ID: MSK
Analysis Method: SW8260

Analysis Lot: MSK01/18/2007

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	1098595	9.67	715700	13.02	322118	15.59
Upper Limit ==>	2197190	10.17	1431400	13.52	644236	16.09
Lower Limit ==>	549298	9.17	357850	12.52	161059	15.09

Associated Analyses

Laboratory Control Sample	K0118W02LCS	1117897	9.67	724646	13.02	325748	15.59
Laboratory Control Sample Duplicate	K0118W02LCSD	1120306	9.67	751136	13.02	334990	15.61
Method Blank	K0118W02	1058104	9.67	713243	13.02	289379	15.60
QCEB	D0700056-003	1272267	9.67	863578	13.02	337991	15.61
BLD120-MW-4	D0700056-006	1280736	9.67	832149	13.02	346045	15.61
BLD120-MW-5	D0700056-007	1225338	9.67	818062	13.01	337131	15.60
BLD102-MW-4	D0700056-008	1169087	9.67	767079	13.02	317783	15.61
MWCL-1	D0700056-009	1203442	9.67	825090	13.02	333387	15.61
MWCL-2	D0700056-010	1109411	9.67	751794	13.01	308933	15.60
MWCL-3	D0700056-011	1133037	9.67	753811	13.02	300654	15.61
MWCL-4	D0700056-012	1172663	9.68	766101	13.03	309551	15.60
MWCL-6	D0700056-013	1202052	9.68	806238	13.03	332376	15.60
MWCL-7	D0700056-014	1113665	9.68	743996	13.03	292900	15.62
MWCL-5	D0700056-015	1242931	9.69	829978	13.02	329782	15.61
MWCL-8	D0700056-016	1228583	9.68	797621	13.03	323511	15.60
BLD120-MW-1	D0700056-001	1044134	9.69	698033	13.02	280359	15.61
BLD120-MW-1DL	D0700056-001DL	982429	9.68	654177	13.03	262611	15.60
BLD120-MW-6	D0700056-002	990103	9.69	657517	13.02	262107	15.61
BLD120-MW-6DL	D0700056-002DL	974000	9.68	653611	13.03	263419	15.62
BLD120-MW-2DL	D0700056-004DL	967922	9.68	638265	13.03	253674	15.62
BLD120-MW-3DL	D0700056-005DL	982839	9.69	642731	13.02	262153	15.61

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0700056
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	01/17/2007

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K0116W02LCS / K0116W02LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	10.9	11.2	109	112	27-158	3	
Chloromethane	1.0	10.0	9.56	9.98	96	100	51-137	4	
Vinyl Chloride	0.50	10.0	9.93	10.1	99	101	57-137	2	
Bromomethane	1.0	10.0	10.2	10.5	102	105	44-156	3	
Chloroethane	1.0	10.0	10.0	10.0	100	100	60-140	0	
Trichlorofluoromethane (CFC 11)	1.0	10.0	11.0	11.2	110	112	54-146	2	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	9.98	10.1	100	101	67-139	1	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	10.1	10.2	101	102	70-130	1	
Acetone	10	50.0	46.4	46.6	93	93	55-137	0	
Carbon Disulfide	2.0	10.0	9.33	9.30	93	93	50-127	0	
Dichloromethane (Methylene Chloride)	2.0	10.0	9.95	9.76	100	98	73-121	2	
trans-1,2-Dichloroethene	0.50	10.0	9.32	9.31	93	93	74-124	0	
Methyl tert-Butyl Ether	2.0	10.0	8.44	8.36	84	84	75-119	1	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	10.1	10.1	101	101	78-121	0	
Vinyl Acetate	10	10.0	8.66	8.92	87	89	52-129	3	
2,2-Dichloropropane	0.50	10.0	8.44	8.33	84	83	61-137	1	
cis-1,2-Dichloroethene	0.50	10.0	9.93	9.76	99	98	80-118	2	
2-Butanone (MEK)	10	50.0	43.6	42.1	87	84	76-122	4	
Bromochloromethane	0.50	10.0	9.29	9.08	93	91	82-118	2	
Chloroform	0.50	10.0	9.93	9.91	99	99	73-125	0	
1,1,1-Trichloroethane (TCA)	0.50	10.0	10.2	10.3	102	103	76-124	1	
1,1-Dichloropropene	0.50	10.0	10.1	10.1	101	101	80-119	0	
Carbon Tetrachloride	0.50	10.0	9.51	9.56	95	96	68-135	0	
Benzene	0.50	10.0	9.77	9.76	98	98	81-119	0	
1,2-Dichloroethane (EDC)	0.50	10.0	10.1	10.2	101	102	75-122	1	
Trichloroethene (TCE)	0.50	10.0	9.70	9.57	97	96	79-118	1	
1,2-Dichloropropane	0.50	10.0	9.69	9.77	97	98	82-115	1	
Dibromomethane	0.50	10.0	9.34	9.71	93	97	84-116	4	
Bromodichloromethane	1.0	10.0	9.54	9.72	95	97	81-122	2	
cis-1,3-Dichloropropene	0.50	10.0	9.03	9.22	90	92	78-118	2	
4-Methyl-2-pentanone (MIBK)	10	50.0	43.8	43.8	88	88	81-127	0	
Toluene	0.50	10.0	10.1	9.88	101	99	83-116	2	
trans-1,3-Dichloropropene	0.50	10.0	9.24	9.12	92	91	73-122	1	
1,1,2-Trichloroethane	0.50	10.0	10.6	10.6	106	106	83-120	0	
Tetrachloroethene (PCE)	0.50	10.0	10.0	9.80	100	98	82-118	2	
1,3-Dichloropropane	0.50	10.0	10.0	9.86	100	99	82-119	1	
2-Hexanone	10	50.0	46.5	45.0	93	90	81-130	3	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0700056
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	01/17/2007

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K0116W02LCS / K0116W02LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	8.86	8.66	89	87	79-124	2	
1,2-Dibromoethane (EDB)	1.0	10.0	9.48	9.24	95	92	82-116	2	
Chlorobenzene	0.50	10.0	9.78	9.69	98	97	86-114	1	
1,1,1,2-Tetrachloroethane	0.50	10.0	8.93	8.70	89	87	79-122	3	
Ethylbenzene	0.50	10.0	10.4	10.3	104	103	86-116	1	
Xylenes, Total	1.5	30.0	30.2	29.7	101	99	85-117	2	
Styrene	0.50	10.0	9.64	9.54	96	95	84-119	1	
Bromoform	1.0	10.0	7.93	7.76	79	78	71-133	2	
Isopropylbenzene	1.0	10.0	10.2	10.2	102	102	77-117	0	
1,1,2,2-Tetrachloroethane	0.50	10.0	9.61	10.1	96	101	80-117	5	
Bromobenzene	1.0	10.0	9.60	9.44	96	94	84-120	2	
1,2,3-Trichloropropane	0.50	10.0	9.77	9.79	98	98	81-122	0	
n-Propylbenzene	1.0	10.0	9.48	9.53	95	95	87-117	0	
2-Chlorotoluene	1.0	10.0	9.29	9.67	93	97	87-119	4	
1,3,5-Trimethylbenzene	1.0	10.0	9.83	9.65	98	96	83-120	2	
4-Chlorotoluene	1.0	10.0	9.29	9.53	93	95	86-118	2	
tert-Butylbenzene	1.0	10.0	9.36	9.65	94	96	82-122	3	
1,2,4-Trimethylbenzene	1.0	10.0	9.90	10.1	99	101	86-121	2	
sec-Butylbenzene	1.0	10.0	10.4	10.7	104	107	84-128	3	
1,3-Dichlorobenzene	0.50	10.0	9.62	9.89	96	99	85-119	3	
4-Isopropyltoluene	1.0	10.0	9.29	9.41	93	94	84-121	1	
1,4-Dichlorobenzene	0.50	10.0	9.62	9.83	96	98	84-118	2	
n-Butylbenzene	1.0	10.0	9.93	9.87	99	99	81-123	1	
1,2-Dichlorobenzene	0.50	10.0	9.51	9.80	95	98	85-117	3	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	40.0	35.3	35.4	88	88	67-121	0	
1,2,4-Trichlorobenzene	1.0	10.0	9.74	9.86	97	99	69-128	1	
Hexachlorobutadiene	1.0	10.0	9.09	9.22	91	92	71-135	1	
Naphthalene	1.0	10.0	8.48	8.75	85	88	60-131	3	
1,2,3-Trichlorobenzene	1.0	10.0	9.58	9.73	96	97	69-130	2	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0700056
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	01/18/2007

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K0118W02LCS / K0118W02LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	11.2	11.2	112	112	27-158	0	
Chloromethane	1.0	10.0	10.1	10.1	101	101	51-137	0	
Vinyl Chloride	0.50	10.0	9.94	9.94	99	99	57-137	0	
Bromomethane	1.0	10.0	10.3	10.5	103	105	44-156	2	
Chloroethane	1.0	10.0	9.76	10.1	98	101	60-140	3	
Trichlorofluoromethane (CFC 11)	1.0	10.0	11.4	11.4	114	114	54-146	0	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	10.3	10.3	103	103	67-139	0	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	10.2	10.4	102	104	70-130	2	
Acetone	10	50.0	55.3	51.9	111	104	55-137	6	
Carbon Disulfide	2.0	10.0	9.44	9.46	94	95	50-127	0	
Dichloromethane (Methylene Chloride)	2.0	10.0	10.0	10.4	100	104	73-121	4	
trans-1,2-Dichloroethene	0.50	10.0	9.30	9.48	93	95	74-124	2	
Methyl tert-Butyl Ether	2.0	10.0	8.98	8.96	90	90	75-119	0	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	10.2	10.3	102	103	78-121	1	
Vinyl Acetate	10	10.0	7.58	9.37	76	94	52-129	21	*
2,2-Dichloropropane	0.50	10.0	8.15	8.12	82	81	61-137	0	
cis-1,2-Dichloroethene	0.50	10.0	9.78	10.0	98	100	80-118	2	
2-Butanone (MEK)	10	50.0	49.0	48.4	98	97	76-122	1	
Bromochloromethane	0.50	10.0	9.21	9.34	92	93	82-118	1	
Chloroform	0.50	10.0	10.1	10.2	101	102	73-125	1	
1,1,1-Trichloroethane (TCA)	0.50	10.0	10.2	10.3	102	103	76-124	1	
1,1-Dichloropropene	0.50	10.0	9.68	9.92	97	99	80-119	2	
Carbon Tetrachloride	0.50	10.0	9.37	9.30	94	93	68-135	1	
Benzene	0.50	10.0	9.50	9.81	95	98	81-119	3	
1,2-Dichloroethane (EDC)	0.50	10.0	10.5	10.7	105	107	75-122	2	
Trichloroethene (TCE)	0.50	10.0	9.76	9.58	98	96	79-118	2	
1,2-Dichloropropane	0.50	10.0	9.59	10.1	96	101	82-115	5	
Dibromomethane	0.50	10.0	9.85	10.3	98	103	84-116	4	
Bromodichloromethane	1.0	10.0	9.59	9.82	96	98	81-122	2	
cis-1,3-Dichloropropene	0.50	10.0	8.97	9.42	90	94	78-118	5	
4-Methyl-2-pentanone (MIBK)	10	50.0	48.6	49.3	97	99	81-127	1	
Toluene	0.50	10.0	10.2	10.0	102	100	83-116	2	
trans-1,3-Dichloropropene	0.50	10.0	9.48	9.45	95	94	73-122	0	
1,1,2-Trichloroethane	0.50	10.0	11.6	11.3	116	113	83-120	3	
Tetrachloroethene (PCE)	0.50	10.0	10.3	10.0	103	100	82-118	3	
1,3-Dichloropropane	0.50	10.0	10.8	10.5	108	105	82-119	3	
2-Hexanone	10	50.0	54.8	52.4	110	105	81-130	4	

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 01/18/2007

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample Lab Control Sample
Lab Code: K0118W02LCS / K0118W02LCSD
Extraction SW5030
Analysis Method: SW8260

DLCS Sample Lab Control Sample Duplicate
Units: ug/L (ppb)

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	9.16	9.18	92	92	79-124	0	
1,2-Dibromoethane (EDB)	1.0	10.0	10.3	9.99	103	100	82-116	3	
Chlorobenzene	0.50	10.0	9.81	9.91	98	99	86-114	1	
1,1,1,2-Tetrachloroethane	0.50	10.0	9.27	9.18	93	92	79-122	1	
Ethylbenzene	0.50	10.0	10.6	10.3	106	103	86-116	3	
Xylenes, Total	1.5	30.0	30.4	29.5	101	98	85-117	3	
Styrene	0.50	10.0	9.74	9.63	97	96	84-119	1	
Bromoform	1.0	10.0	8.61	8.29	86	83	71-133	4	
Isopropylbenzene	1.0	10.0	9.93	9.83	99	98	77-117	1	
1,1,2,2-Tetrachloroethane	0.50	10.0	10.4	11.0	104	110	80-117	6	
Bromobenzene	1.0	10.0	9.78	9.70	98	97	84-120	1	
1,2,3-Trichloropropane	0.50	10.0	11.0	11.0	110	110	81-122	0	
n-Propylbenzene	1.0	10.0	9.23	9.50	92	95	87-117	3	
2-Chlorotoluene	1.0	10.0	9.48	9.51	95	95	87-119	0	
1,3,5-Trimethylbenzene	1.0	10.0	9.49	9.82	95	98	83-120	3	
4-Chlorotoluene	1.0	10.0	9.41	9.32	94	93	86-118	1	
tert-Butylbenzene	1.0	10.0	9.31	9.43	93	94	82-122	1	
1,2,4-Trimethylbenzene	1.0	10.0	9.91	9.80	99	98	86-121	1	
sec-Butylbenzene	1.0	10.0	10.5	10.4	105	104	84-128	1	
1,3-Dichlorobenzene	0.50	10.0	10.0	9.68	100	97	85-119	3	
4-Isopropyltoluene	1.0	10.0	9.33	9.14	93	91	84-121	2	
1,4-Dichlorobenzene	0.50	10.0	9.88	9.87	99	99	84-118	0	
n-Butylbenzene	1.0	10.0	9.84	9.86	98	99	81-123	0	
1,2-Dichlorobenzene	0.50	10.0	10.1	9.93	101	99	85-117	2	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	40.0	41.6	40.4	104	101	67-121	3	
1,2,4-Trichlorobenzene	1.0	10.0	9.85	9.84	98	98	69-128	0	
Hexachlorobutadiene	1.0	10.0	9.23	8.92	92	89	71-135	3	
Naphthalene	1.0	10.0	8.95	8.76	90	88	60-131	2	
1,2,3-Trichlorobenzene	1.0	10.0	9.96	9.80	100	98	69-130	2	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	GeoSyntec Consultants	**Service Request:**	D0700056
Project:	TDY	**Date Extracted:**	01/17/2007
Sample Matrix:	Water	**Date Analyzed:**	01/17/2007
		Time Analyzed:	01:41

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K0116W02

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	K0116W02LCS	K070345	01/17/2007	00:22
Laboratory Control Sample Duplicate	K0116W02LCSD	K070346	01/17/2007	00:49
BLD120-MW-2	D0700056-004	K070352	01/17/2007	03:26
BLD120-MW-3	D0700056-005	K070353	01/17/2007	03:53

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0700056
Date Extracted: 01/19/2007
Date Analyzed: 01/19/2007
Time Analyzed: 00:05

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K0118W02

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	K0118W02LCS	K070430	01/18/2007	22:46
Laboratory Control Sample Duplicate	K0118W02LCSD	K070431	01/18/2007	23:12
QCEB	D0700056-003	K070436	01/19/2007	01:25
BLD120-MW-4	D0700056-006	K070437	01/19/2007	01:52
BLD120-MW-5	D0700056-007	K070438	01/19/2007	02:18
BLD102-MW-4	D0700056-008	K070439	01/19/2007	02:45
MWCL-1	D0700056-009	K070440	01/19/2007	03:11
MWCL-2	D0700056-010	K070441	01/19/2007	03:38
MWCL-3	D0700056-011	K070442	01/19/2007	04:04
MWCL-4	D0700056-012	K070443	01/19/2007	04:31
MWCL-6	D0700056-013	K070444	01/19/2007	04:57
MWCL-7	D0700056-014	K070445	01/19/2007	05:23
MWCL-5	D0700056-015	K070446	01/19/2007	05:50
MWCL-8	D0700056-016	K070448	01/19/2007	06:43
BLD120-MW-1	D0700056-001	K070449	01/19/2007	07:09
BLD120-MW-1DL	D0700056-001DL	K070450	01/19/2007	07:36
BLD120-MW-6	D0700056-002	K070451	01/19/2007	08:02
BLD120-MW-6DL	D0700056-002DL	K070452	01/19/2007	08:29
BLD120-MW-2DL	D0700056-004DL	K070453	01/19/2007	08:55
BLD120-MW-3DL	D0700056-005DL	K070454	01/19/2007	09:22

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/11/2007
Time Analyzed: 1050

Tune Summary
Volatile Organic Compounds

File ID: K070142
Instrument ID: MSK
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.0	256384	PASS
75	95	30	60	41.7	533568	PASS
95	95	100	100	100.0	1280512	PASS
96	95	5	9	6.6	84424	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	78.1	999872	PASS
175	174	5	9	7.3	73328	PASS
176	174	95	101	97.8	977984	PASS
177	176	5	9	6.4	63024	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD00.5	VSTD00.5	K070144	01/11/2007	1145	
VSTD001	VSTD001	K070145	01/11/2007	1212	
VSTD005	VSTD005	K070146	01/11/2007	1238	
VSTD010	VSTD010	K070147	01/11/2007	1305	
VSTD020	VSTD020	K070148	01/11/2007	1331	
VSTD040	VSTD040	K070149	01/11/2007	1358	
VSTD100	VSTD100	K070150	01/11/2007	1425	
QCALTSTD	QCALTSTD	K070152	01/11/2007	1518	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/16/2007
Time Analyzed: 2303

Tune Summary
Volatile Organic Compounds

File ID: K070342
Instrument ID: MSK
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	23.0	97432	PASS
75	95	30	60	44.9	190336	PASS
95	95	100	100	100.0	423680	PASS
96	95	5	9	6.5	27616	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	74.7	316480	PASS
175	174	5	9	7.4	23344	PASS
176	174	95	101	97.6	308736	PASS
177	176	5	9	6.6	20400	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	K070344	01/16/2007	2356	
Laboratory Control Sample	K0116W02LCS	K070345	01/17/2007	0022	
Laboratory Control Sample Duplicate	K0116W02LCSD	K070346	01/17/2007	0049	
Method Blank	K0116W02	K070348	01/17/2007	0141	
BLD120-MW-2	D0700056-004	K070352	01/17/2007	0326	
BLD120-MW-3	D0700056-005	K070353	01/17/2007	0353	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
Date Analyzed: 01/18/2007
Time Analyzed: 2126

Tune Summary
Volatile Organic Compounds

File ID: K070427
Instrument ID: MSK
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	23.0	76728	PASS
75	95	30	60	45.3	151040	PASS
95	95	100	100	100.0	333440	PASS
96	95	5	9	6.5	21824	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	71.2	237568	PASS
175	174	5	9	7.1	16944	PASS
176	174	95	101	96.8	229952	PASS
177	176	5	9	6.4	14766	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	K070429	01/18/2007	2219	
Laboratory Control Sample	K0118W02LCS	K070430	01/18/2007	2246	
Laboratory Control Sample Duplicate	K0118W02LCSD	K070431	01/18/2007	2312	
Method Blank	K0118W02	K070433	01/19/2007	0005	
QCEB	D0700056-003	K070436	01/19/2007	0125	
BLD120-MW-4	D0700056-006	K070437	01/19/2007	0152	
BLD120-MW-5	D0700056-007	K070438	01/19/2007	0218	
BLD102-MW-4	D0700056-008	K070439	01/19/2007	0245	
MWCL-1	D0700056-009	K070440	01/19/2007	0311	
MWCL-2	D0700056-010	K070441	01/19/2007	0338	
MWCL-3	D0700056-011	K070442	01/19/2007	0404	
MWCL-4	D0700056-012	K070443	01/19/2007	0431	
MWCL-6	D0700056-013	K070444	01/19/2007	0457	
MWCL-7	D0700056-014	K070445	01/19/2007	0523	
MWCL-5	D0700056-015	K070446	01/19/2007	0550	
MWCL-8	D0700056-016	K070448	01/19/2007	0643	
BLD120-MW-1	D0700056-001	K070449	01/19/2007	0709	
BLD120-MW-1DL	D0700056-001DL	K070450	01/19/2007	0736	
BLD120-MW-6	D0700056-002	K070451	01/19/2007	0802	
BLD120-MW-6DL	D0700056-002DL	K070452	01/19/2007	0829	
BLD120-MW-2DL	D0700056-004DL	K070453	01/19/2007	0855	
BLD120-MW-3DL	D0700056-005DL	K070454	01/19/2007	0922	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Standards Data

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 01/11/2007

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID
A	K070145
B	K070146
C	K070147
D	K070148
E	K070149
F	K070150
G	K070144

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dichlorodifluoromethane (CFC 12)	A	1.000	0.224	B	5.000	0.230	C	10.00	0.221	D	20.00	0.229	E	40.00	0.218
	F	100.0	0.218	G	0.500	0.247									
* Chloromethane	A	1.000	0.340	B	5.000	0.319	C	10.00	0.304	D	20.00	0.310	E	40.00	0.294
	F	100.0	0.303												
# Vinyl Chloride	A	1.000	0.322	B	5.000	0.256	C	10.00	0.256	D	20.00	0.263	E	40.00	0.250
	F	100.0	0.248	G	0.500	0.297									
Bromomethane	A	1.000	0.127	B	5.000	0.148	C	10.00	0.157	D	20.00	0.171	E	40.00	0.172
	F	100.0	0.176	G	0.500	0.207									
Chloroethane	A	1.000	0.133	B	5.000	0.134	C	10.00	0.128	D	20.00	0.133	E	40.00	0.128
	F	100.0	0.125												
Trichlorofluoromethane (CFC 11)	A	1.000	0.282	B	5.000	0.273	C	10.00	0.267	D	20.00	0.270	E	40.00	0.258
	F	100.0	0.244	G	0.500	0.333									
1,1,2-Trichlorotrifluoroethane	A	1.000	0.263	B	5.000	0.265	C	10.00	0.259	D	20.00	0.271	E	40.00	0.257
	F	100.0	0.251	G	0.500	0.290									
# 1,1-Dichloroethene (1,1-DCE)	A	1.000	0.250	B	5.000	0.242	C	10.00	0.230	D	20.00	0.239	E	40.00	0.224
	F	100.0	0.220	G	0.500	0.288									
Acetone	A	5.000	0.108	B	25.00	0.072	C	50.00	0.064	D	100.0	0.068	E	200.0	0.062
	F	500.0	0.063												
Carbon Disulfide	A	1.000	1.034	B	5.000	1.037	C	10.00	1.002	D	20.00	1.037	E	40.00	1.002
	F	100.0	1.000	G	0.500	1.167									
Dichloromethane (Methylene Chloride)	A	1.000	0.304	B	5.000	0.310	C	10.00	0.307	D	20.00	0.314	E	40.00	0.299
	F	100.0	0.292	G	0.500	0.386									
trans-1,2-Dichloroethene	A	1.000	0.295	B	5.000	0.298	C	10.00	0.289	D	20.00	0.293	E	40.00	0.280
	F	100.0	0.271	G	0.500	0.370									
Methyl tert-Butyl Ether	A	1.000	0.646	B	5.000	0.653	C	10.00	0.634	D	20.00	0.647	E	40.00	0.611
	F	100.0	0.600	G	0.500	0.781									
* 1,1-Dichloroethane (1,1-DCA)	A	1.000	0.561	B	5.000	0.566	C	10.00	0.549	D	20.00	0.578	E	40.00	0.545
	F	100.0	0.529	G	0.500	0.642									
Vinyl Acetate	A	1.000	1.221	B	5.000	1.281	C	10.00	1.227	D	20.00	1.252	E	40.00	1.198
	F	100.0	1.170	G	0.500	1.494									
2,2-Dichloropropane	A	1.000	0.419	B	5.000	0.366	C	10.00	0.355	D	20.00	0.366	E	40.00	0.348
	F	100.0	0.334	G	0.500	0.454									
cis-1,2-Dichloroethene	A	1.000	0.327	B	5.000	0.326	C	10.00	0.325	D	20.00	0.329	E	40.00	0.316
	F	100.0	0.303	G	0.500	0.374									

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* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 01/11/2007

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K070145	F	K070150
B	K070146	G	K070144
C	K070147		
D	K070148		
E	K070149		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Butanone (MEK)	A	5.000	0.110	B	25.00	0.117	C	50.00	0.110	D	100.0	0.117	E	200.0	0.112
	F	500.0	0.113	G	2.500	0.140									
Bromochloromethane	A	1.000	0.152	B	5.000	0.158	C	10.00	0.152	D	20.00	0.157	E	40.00	0.150
	F	100.0	0.144	G	0.500	0.177									
# Chloroform	A	1.000	0.535	B	5.000	0.523	C	10.00	0.515	D	20.00	0.519	E	40.00	0.498
	F	100.0	0.487	G	0.500	0.654									
1,1,1-Trichloroethane (TCA)	A	1.000	0.368	B	5.000	0.368	C	10.00	0.366	D	20.00	0.371	E	40.00	0.360
	F	100.0	0.355	G	0.500	0.401									
1,1-Dichloropropene	A	1.000	0.373	B	5.000	0.382	C	10.00	0.379	D	20.00	0.394	E	40.00	0.372
	F	100.0	0.363	G	0.500	0.404									
Carbon Tetrachloride	A	1.000	0.297	B	5.000	0.294	C	10.00	0.295	D	20.00	0.302	E	40.00	0.294
	F	100.0	0.289	G	0.500	0.323									
Benzene	A	1.000	1.103	B	5.000	1.110	C	10.00	1.083	D	20.00	1.126	E	40.00	1.072
	F	100.0	1.054	G	0.500	1.250									
1,2-Dichloroethane (EDC)	A	1.000	0.389	B	5.000	0.365	C	10.00	0.359	D	20.00	0.372	E	40.00	0.348
	F	100.0	0.343	G	0.500	0.439									
Trichloroethene (TCE)	A	1.000	0.315	B	5.000	0.298	C	10.00	0.291	D	20.00	0.304	E	40.00	0.285
	F	100.0	0.286	G	0.500	0.402									
# 1,2-Dichloropropane	A	1.000	0.326	B	5.000	0.335	C	10.00	0.325	D	20.00	0.337	E	40.00	0.318
	F	100.0	0.316	G	0.500	0.383									
Dibromomethane	A	1.000	0.208	B	5.000	0.186	C	10.00	0.185	D	20.00	0.190	E	40.00	0.183
	F	100.0	0.179	G	0.500	0.225									
Bromodichloromethane	A	1.000	0.382	B	5.000	0.378	C	10.00	0.362	D	20.00	0.385	E	40.00	0.362
	F	100.0	0.361	G	0.500	0.411									
cis-1,3-Dichloropropene	A	1.000	0.468	B	5.000	0.465	C	10.00	0.449	D	20.00	0.467	E	40.00	0.459
	F	100.0	0.460	G	0.500	0.509									
4-Methyl-2-pentanone (MIBK)	A	5.000	0.262	B	25.00	0.262	C	50.00	0.256	D	100.0	0.271	E	200.0	0.254
	F	500.0	0.239	G	2.500	0.301									
# Toluene	A	1.000	0.930	B	5.000	0.946	C	10.00	0.908	D	20.00	0.938	E	40.00	0.895
	F	100.0	0.896	G	0.500	0.989									
trans-1,3-Dichloropropene	A	1.000	0.514	B	5.000	0.532	C	10.00	0.530	D	20.00	0.544	E	40.00	0.522
	F	100.0	0.524	G	0.500	0.722									
1,1,2-Trichloroethane	A	1.000	0.261	B	5.000	0.271	C	10.00	0.266	D	20.00	0.266	E	40.00	0.252
	F	100.0	0.254	G	0.500	0.390									

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* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 01/11/2007

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID
A	K070145
B	K070146
C	K070147
D	K070148
E	K070149
F	K070150
G	K070144

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Tetrachloroethene (PCE)	A	1.000	0.384	B	5.000	0.366	C	10.00	0.354	D	20.00	0.366	E	40.00	0.351
	F	100.0	0.349	G	0.500	0.445									
1,3-Dichloropropane	A	1.000	0.501	B	5.000	0.521	C	10.00	0.508	D	20.00	0.512	E	40.00	0.484
	F	100.0	0.490	G	0.500	0.655									
2-Hexanone	A	5.000	0.263	B	25.00	0.253	C	50.00	0.240	D	100.0	0.247	E	200.0	0.230
	F	500.0	0.230	G	2.500	0.352									
Dibromochloromethane	A	1.000	0.379	B	5.000	0.376	C	10.00	0.372	D	20.00	0.381	E	40.00	0.370
	F	100.0	0.375	G	0.500	0.418									
1,2-Dibromoethane (EDB)	A	1.000	0.350	B	5.000	0.340	C	10.00	0.343	D	20.00	0.347	E	40.00	0.332
	F	100.0	0.338	G	0.500	0.438									
* Chlorobenzene	A	1.000	1.051	B	5.000	1.038	C	10.00	1.018	D	20.00	1.058	E	40.00	1.010
	F	100.0	0.999	G	0.500	1.162									
1,1,1,2-Tetrachloroethane	A	1.000	0.365	B	5.000	0.331	C	10.00	0.327	D	20.00	0.338	E	40.00	0.325
	F	100.0	0.325	G	0.500	0.392									
# Ethylbenzene	A	1.000	1.678	B	5.000	1.694	C	10.00	1.644	D	20.00	1.717	E	40.00	1.633
	F	100.0	1.434	G	0.500	1.769									
Xylenes, Total	A	3.000	0.615	B	15.00	0.622	C	30.00	0.616	D	60.00	0.634	E	120.0	0.603
	F	300.0	0.582	G	1.500	0.646									
Styrene	A	1.000	1.110	B	5.000	1.113	C	10.00	1.097	D	20.00	1.139	E	40.00	1.086
	F	100.0	1.034	G	0.500	1.112									
* Bromoform	A	1.000	0.240	B	5.000	0.236	C	10.00	0.232	D	20.00	0.242	E	40.00	0.230
	F	100.0	0.232	G	0.500	0.287									
Isopropylbenzene	A	1.000	1.585	B	5.000	1.578	C	10.00	1.534	D	20.00	1.599	E	40.00	1.552
	F	100.0	1.397	G	0.500	1.568									
* 1,1,2,2-Tetrachloroethane	A	1.000	0.900	B	5.000	0.851	C	10.00	0.832	D	20.00	0.861	E	40.00	0.830
	F	100.0	0.834	G	0.500	1.273									
Bromobenzene	A	1.000	0.912	B	5.000	0.905	C	10.00	0.900	D	20.00	0.917	E	40.00	0.899
	F	100.0	0.901	G	0.500	1.189									
1,2,3-Trichloropropane	A	1.000	0.225	B	5.000	0.190	C	10.00	0.186	D	20.00	0.191	E	40.00	0.184
	F	100.0	0.182	G	0.500	0.286									
n-Propylbenzene	A	1.000	0.866	B	5.000	0.916	C	10.00	0.894	D	20.00	0.898	E	40.00	0.873
	F	100.0	0.867	G	0.500	0.951									
2-Chlorotoluene	A	1.000	0.843	B	5.000	0.807	C	10.00	0.807	D	20.00	0.841	E	40.00	0.801
	F	100.0	0.776	G	0.500	1.005									

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* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 01/11/2007

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID
A	K070145
B	K070146
C	K070147
D	K070148
E	K070149
F	K070150
G	K070144

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,3,5-Trimethylbenzene	A	1.000	3.115	B	5.000	2.726	C	10.00	2.773	D	20.00	3.148	E	40.00	2.781
	F	100.0	2.741	G	0.500	3.355									
4-Chlorotoluene	A	1.000	0.900	B	5.000	0.861	C	10.00	0.821	D	20.00	0.862	E	40.00	0.836
	F	100.0	0.812	G	0.500	1.045									
tert-Butylbenzene	A	1.000	2.687	B	5.000	2.543	C	10.00	2.596	D	20.00	2.649	E	40.00	2.610
	F	100.0	2.537	G	0.500	2.880									
1,2,4-Trimethylbenzene	A	1.000	2.910	B	5.000	2.860	C	10.00	2.896	D	20.00	2.912	E	40.00	2.875
	F	100.0	2.774	G	0.500	3.231									
sec-Butylbenzene	A	1.000	3.450	B	5.000	3.441	C	10.00	3.401	D	20.00	3.512	E	40.00	3.456
	F	100.0	3.250	G	0.500	3.747									
1,3-Dichlorobenzene	A	1.000	1.580	B	5.000	1.575	C	10.00	1.546	D	20.00	1.593	E	40.00	1.566
	F	100.0	1.522	G	0.500	1.748									
4-Isopropyltoluene	A	1.000	2.959	B	5.000	2.908	C	10.00	2.919	D	20.00	2.969	E	40.00	2.906
	F	100.0	2.870	G	0.500	3.191									
1,4-Dichlorobenzene	A	1.000	1.677	B	5.000	1.606	C	10.00	1.560	D	20.00	1.602	E	40.00	1.578
	F	100.0	1.567	G	0.500	1.838									
n-Butylbenzene	A	1.000	2.923	B	5.000	2.926	C	10.00	2.888	D	20.00	2.932	E	40.00	2.858
	F	100.0	2.832	G	0.500	2.941									
1,2-Dichlorobenzene	A	1.000	1.534	B	5.000	1.474	C	10.00	1.452	D	20.00	1.474	E	40.00	1.414
	F	100.0	1.429	G	0.500	1.804									
1,2-Dibromo-3-chloropropane (DBCP)	A	4.000	0.128	B	20.00	0.127	C	40.00	0.122	D	80.00	0.126	E	160.0	0.121
	F	400.0	0.121	G	2.000	0.184									
1,2,4-Trichlorobenzene	A	1.000	1.069	B	5.000	1.048	C	10.00	1.044	D	20.00	1.086	E	40.00	1.054
	F	100.0	1.048	G	0.500	0.997									
Hexachlorobutadiene	A	1.000	0.498	B	5.000	0.482	C	10.00	0.468	D	20.00	0.486	E	40.00	0.472
	F	100.0	0.476	G	0.500	0.499									
Naphthalene	A	1.000	2.030	B	5.000	1.967	C	10.00	1.908	D	20.00	1.990	E	40.00	1.939
	F	100.0	1.931	G	0.500	1.751									
1,2,3-Trichlorobenzene	A	1.000	0.938	B	5.000	0.924	C	10.00	0.906	D	20.00	0.945	E	40.00	0.910
	F	100.0	0.922	G	0.500	0.898									
Dibromofluoromethane	A	1.000	0.316	B	5.000	0.324	C	10.00	0.323	D	20.00	0.341	E	40.00	0.307
1,2-Dichloroethane-d4	A	1.000	0.308	B	5.000	0.292	C	10.00	0.309	D	20.00	0.300	E	40.00	0.273

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Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 01/11/2007

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K070145	F	K070150
B	K070146	G	K070144
C	K070147		
D	K070148		
E	K070149		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Toluene-d8	A	1.000	1.344	B	5.000	1.315	C	10.00	1.283	D	20.00	1.329	E	40.00	1.216
4-Bromofluorobenzene	A	1.000	0.952	B	5.000	0.869	C	10.00	0.899	D	20.00	0.935	E	40.00	0.869

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Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 01/11/2007

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK
Mean RSD: 7.88

Column: DB-624

		Calibration Evaluation					RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
Dichlorodifluoromethane (CFC 12)	TRG	AverageRF	% RSD	4.5		15.0	0.227		0.01
* Chloromethane	TRG	AverageRF	% RSD	5.2		15.0	0.312		0.10
# Vinyl Chloride	TRG	AverageRF	% RSD	10.4		15.0	0.270		0.01
Bromomethane	TRG	Linear	r	1.000		0.995	0.165		0.01
Chloroethane	TRG	AverageRF	% RSD	2.8		15.0	0.130		0.01
Trichlorofluoromethane (CFC 11)	TRG	AverageRF	% RSD	10.2		15.0	0.275		0.01
1,1,2-Trichlorotrifluoroethane	TRG	AverageRF	% RSD	4.8		15.0	0.265		0.01
# 1,1-Dichloroethene (1,1-DCE)	TRG	AverageRF	% RSD	9.4		15.0	0.242		0.01
Acetone	TRG	Linear	r	1.000		0.995	0.073		0.01
Carbon Disulfide	TRG	AverageRF	% RSD	5.7		15.0	1.040		0.01
Dichloromethane (Methylene Chloride)	TRG	AverageRF	% RSD	10.0		15.0	0.316		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	10.8		15.0	0.299		0.01
Methyl tert-Butyl Ether	TRG	AverageRF	% RSD	9.1		15.0	0.653		0.01
* 1,1-Dichloroethane (1,1-DCA)	TRG	AverageRF	% RSD	6.5		15.0	0.567		0.10
Vinyl Acetate	TRG	AverageRF	% RSD	8.5		15.0	1.263		0.01
2,2-Dichloropropane	TRG	AverageRF	% RSD	11.3		15.0	0.377		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	6.7		15.0	0.328		0.01
2-Butanone (MEK)	TRG	AverageRF	% RSD	9.0		15.0	0.117		0.01
Bromochloromethane	TRG	AverageRF	% RSD	6.7		15.0	0.156		0.01
# Chloroform	TRG	AverageRF	% RSD	10.5		15.0	0.533		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	4.0		15.0	0.370		0.01
1,1-Dichloropropene	TRG	AverageRF	% RSD	3.7		15.0	0.381		0.01
Carbon Tetrachloride	TRG	AverageRF	% RSD	3.8		15.0	0.299		0.01
Benzene	TRG	AverageRF	% RSD	5.8		15.0	1.114		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	8.7		15.0	0.374		0.01
Trichloroethene (TCE)	TRG	AverageRF	% RSD	13.2		15.0	0.312		0.01
# 1,2-Dichloropropane	TRG	AverageRF	% RSD	6.8		15.0	0.334		0.01
Dibromomethane	TRG	AverageRF	% RSD	8.6		15.0	0.194		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	4.8		15.0	0.377		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	4.1		15.0	0.468		0.01
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF	% RSD	7.3		15.0	0.264		0.01
# Toluene	TRG	AverageRF	% RSD	3.6		15.0	0.929		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	13.3		15.0	0.555		0.01
1,1,2-Trichloroethane	TRG	Linear	r	1.000		0.995	0.280		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	9.0		15.0	0.374		0.01
1,3-Dichloropropane	TRG	AverageRF	% RSD	11.2		15.0	0.524		0.01
2-Hexanone	TRG	Linear	r	1.000		0.995	0.259		0.01

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* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0700056
ICAL Date: 01/11/2007

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 01/11/2007MSK
Instrument ID: MSK
Mean RSD: 7.88

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
Dibromochloromethane	TRG	AverageRF	% RSD	4.3		15.0	0.382		0.01
1,2-Dibromoethane (EDB)	TRG	AverageRF	% RSD	10.4		15.0	0.355		0.01
* Chlorobenzene	TRG	AverageRF	% RSD	5.2		15.0	1.048		0.30
1,1,1,2-Tetrachloroethane	TRG	AverageRF	% RSD	7.5		15.0	0.343		0.01
# Ethylbenzene	TRG	AverageRF	% RSD	6.5		15.0	1.653		0.01
Xylenes, Total	TRG	AverageRF	% RSD	3.3		15.0	0.617		0.01
Styrene	TRG	AverageRF	% RSD	3.0		15.0	1.099		0.01
* Bromoform	TRG	AverageRF	% RSD	8.3		15.0	0.243		0.10
Isopropylbenzene	TRG	AverageRF	% RSD	4.4		15.0	1.545		0.01
* 1,1,2,2-Tetrachloroethane	TRG	Linear	r	1.000		0.995	0.912		0.30
Bromobenzene	TRG	AverageRF	% RSD	11.3		15.0	0.946		0.01
1,2,3-Trichloropropane	TRG	Linear	r	1.000		0.995	0.206		0.01
n-Propylbenzene	TRG	AverageRF	% RSD	3.4		15.0	0.895		0.01
2-Chlorotoluene	TRG	AverageRF	% RSD	9.1		15.0	0.840		0.01
1,3,5-Trimethylbenzene	TRG	AverageRF	% RSD	8.6		15.0	2.948		0.01
4-Chlorotoluene	TRG	AverageRF	% RSD	9.1		15.0	0.877		0.01
tert-Butylbenzene	TRG	AverageRF	% RSD	4.4		15.0	2.643		0.01
1,2,4-Trimethylbenzene	TRG	AverageRF	% RSD	4.9		15.0	2.922		0.01
sec-Butylbenzene	TRG	AverageRF	% RSD	4.3		15.0	3.465		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	4.6		15.0	1.590		0.01
4-Isopropyltoluene	TRG	AverageRF	% RSD	3.6		15.0	2.960		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	6.0		15.0	1.632		0.01
n-Butylbenzene	TRG	AverageRF	% RSD	1.4		15.0	2.900		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	8.9		15.0	1.512		0.01
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Linear	r	1.000		0.995	0.133		0.01
1,2,4-Trichlorobenzene	TRG	AverageRF	% RSD	2.6		15.0	1.049		0.01
Hexachlorobutadiene	TRG	AverageRF	% RSD	2.5		15.0	0.483		0.01
Naphthalene	TRG	AverageRF	% RSD	4.6		15.0	1.931		0.01
1,2,3-Trichlorobenzene	TRG	AverageRF	% RSD	1.8		15.0	0.920		0.01
Dibromofluoromethane	SUR	AverageRF	% RSD	3.9		15.0	0.322		0.01
1,2-Dichloroethane-d4	SUR	AverageRF	% RSD	5.0		15.0	0.296		0.01
Toluene-d8	SUR	AverageRF	% RSD	3.9		15.0	1.297		0.01
4-Bromofluorobenzene	SUR	AverageRF	% RSD	4.2		15.0	0.905		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070144.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 11-JAN-2007 11:45
Operator : BM Inst ID: MSK.i
Smp Info : VSTD00.5;VSTD00.5
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:04 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 11:45 Cal File: K070144.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.687	9.697	(1.000)	1313387	10.0000	
* 2	Chlorobenzene-d5	117	13.034	13.043	(1.000)	907590	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.622	15.616	(1.000)	347650	10.0000	
$ 4	Dibromofluoromethane	113	9.152	8.893	(0.945)	302	0.50000	0.396(aQ)
$ 5	1,2-Dichloroethane-d4	65	9.390	9.310	(0.969)	1747	0.50000	0.0449(aQ)
$ 6	Toluene-d8	98	11.443	11.437	(0.878)	3050	0.50000	0.0259(aQ)
$ 7	Bromofluorobenzene	174	14.298	14.308	(0.915)	1216	0.50000	0.0386(aQ)
8	Dichlorodifluoromethane	85	3.515	3.510	(0.363)	16248	0.50000	0.545(a)
9	1,2-Dichlorotetrafluoroethane	85	3.753	3.747	(0.387)	11945	0.50000	0.438(aQ)
10	Chloromethane	50	3.842	3.837	(0.397)	26270	0.50000	0.642(a)
11	Vinyl chloride	62	4.050	4.059	(0.418)	19510	0.50000	0.549(a)
12	Bromomethane	94	4.660	4.655	(0.481)	13607	0.50000	0.626(a)
13	Chloroethane	64	4.824	4.833	(0.498)	8978	0.50000	0.524(a)
14	Trichlorofluoromethane	101	5.270	5.265	(0.544)	21865	0.50000	0.605(a)
15	1,1,2-Trichlorotrifluoroethane	101	6.058	6.053	(0.625)	19065	0.50000	0.547(a)
16	Acrolein	56	5.880	5.874	(0.607)	4384	5.00000	16.1(Q)
17	1,1-Dichloroethene	96	6.073	6.068	(0.627)	18896	0.50000	0.595(a)
18	Acetone	43	6.088	6.083	(0.628)	48894	2.50000	5.10
19	Bromoethane	108	6.326	6.321	(0.653)	15896	0.50000	0.588(a)
20	Iodomethane	142	6.311	6.321	(0.651)	16524	0.50000	0.395(a)
21	Carbon disulfide	76	6.445	6.455	(0.665)	76654	0.50000	0.561(a)
22	Methylene chloride	84	6.728	6.722	(0.694)	25383	0.50000	0.611(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	23 tert-Butanol	59	6.787	6.797	(0.701)	18168	5.00000	7.18(a)
	24 Acrylonitrile	53	7.010	7.005	(0.724)	64254	5.00000	5.49(a)
	25 n-Hexane	57	8.126	8.135	(0.839)	33518	0.50000	0.785(a)
	26 trans-1,2-Dichloroethene	96	7.114	7.109	(0.734)	24278	0.50000	0.617(a)
	27 tert-Butylmethylether	73	7.085	7.094	(0.731)	51275	0.50000	0.598(aQ)
	28 1,1-Dichloroethane	63	7.635	7.644	(0.788)	42173	0.50000	0.566(a)
	29 Isopropylether	45	7.679	7.689	(0.793)	95689	0.50000	0.538(a)
	30 Vinyl acetate	43	7.665	7.644	(0.791)	98093	0.50000	0.591(a)
	31 tert-Butylethylether	59	8.126	8.135	(0.839)	71577	0.50000	0.568(a)
	32 2,2-Dichloropropane	77	8.364	8.372	(0.863)	29791	0.50000	0.601(aQ)
	33 cis-1,2-Dichloroethene	96	8.349	8.358	(0.862)	24563	0.50000	0.569(a)
M	34 1,2-Dichloroethene (total)	96				48841	1.00000	1.19
	35 2-Butanone	43	8.319	8.314	(0.859)	46015	2.50000	2.99(a)
	36 Bromochloromethane	128	8.646	8.641	(0.893)	11635	0.50000	0.569(a)
	37 Chloroform	83	8.706	8.701	(0.899)	42957	0.50000	0.614(a)
	38 1,1,1-Trichloroethane	97	8.974	8.983	(0.926)	26327	0.50000	0.542(aQ)
	39 Isobutyl alcohol	43	9.137	9.132	(0.943)	22890	12.5000	17.0(aQ)
	40 1,1-Dichloropropene	75	9.167	9.162	(0.946)	26534	0.50000	0.530(a)
	41 Carbon tetrachloride	119	9.197	9.191	(0.949)	21232	0.50000	0.540(a)
	42 tert-Amylmethylether	73	9.464	9.474	(0.977)	58522	0.50000	0.598(a)
	43 Benzene	78	9.405	9.414	(0.971)	82117	0.50000	0.561(a)
	44 1,2-Dichloroethane	62	9.390	9.385	(0.969)	28834	0.50000	0.588(a)
	45 Trichloroethene	95	10.119	10.114	(1.045)	26389	0.50000	0.380(a)
	46 1,2-Dichloropropane	63	10.357	10.352	(1.069)	25150	0.50000	0.573(aQ)
	47 1,4-Dioxane	88	10.491	10.471	(1.083)	6369	12.5000	21.0(aQ)
	48 Dibromomethane	93	10.491	10.500	(1.083)	14772	0.50000	0.581(a)
	49 Bromodichloromethane	83	10.639	10.634	(1.098)	26992	0.50000	0.545(aQ)
	50 2-Chloroethylvinyl ether	63	10.892	10.902	(1.124)	119664	5.00000	5.53(a)
	51 cis-1,3-Dichloropropene	75	11.115	11.110	(1.147)	33424	0.50000	0.544(a)
	52 4-Methyl-2-pentanone	43	11.219	11.229	(1.158)	98818	2.50000	2.86(a)
	53 Toluene	92	11.517	11.512	(0.884)	44874	0.50000	0.532(aQ)
	54 trans-1,3-Dichloropropene	75	11.695	11.690	(0.897)	32776	0.50000	0.650(a)
	55 1,1,2-Trichloroethane	83	11.919	11.913	(0.914)	17703	0.50000	0.697(a)
	56 Tetrachloroethene	166	12.142	12.151	(0.932)	20204	0.50000	0.596(a)
	57 1,3-Dichloropropane	76	12.112	12.107	(0.929)	29730	0.50000	0.624(aQ)
	58 2-Hexanone	43	12.127	12.122	(0.930)	79966	2.50000	3.40(a)
	59 Dibromochloromethane	129	12.380	12.389	(0.950)	18990	0.50000	0.548(a)
	60 1,2-Dibromoethane	107	12.543	12.553	(0.962)	19889	0.50000	0.616(a)
	61 1-Chlorohexane	91	12.960	12.954	(0.994)	28459	0.50000	0.563(aQ)
	62 Chlorobenzene	112	13.064	13.073	(1.002)	52743	0.50000	0.554(aQ)
	63 1,1,1,2-Tetrachloroethane	131	13.123	13.133	(1.007)	17800	0.50000	0.571(a)
	64 Ethylbenzene	91	13.153	13.148	(1.009)	80263	0.50000	0.535(a)
	65 m-,p-Xylene	106	13.272	13.267	(1.018)	58907	1.00000	1.05
	66 o-Xylene	106	13.718	13.713	(1.052)	28995	0.50000	0.524(a)
M	67 Xylene (total)	106				87902	1.50000	1.57
	68 Styrene	104	13.718	13.728	(1.052)	50486	0.50000	0.506(a)
	69 Bromoform	173	13.971	13.966	(1.072)	13024	0.50000	0.592(a)
	70 Isopropylbenzene	105	14.090	14.100	(1.081)	71136	0.50000	0.507(a)
	71 1,1,2,2-Tetrachloroethane	83	14.388	14.382	(0.921)	22126	0.50000	0.698(a)
	72 Bromobenzene	156	14.507	14.501	(0.929)	20672	0.50000	0.628(a)
	73 1,2,3-Trichloropropane	110	14.462	14.472	(0.926)	4970	0.50000	0.693(aQ)
	74 n-Propylbenzene	120	14.551	14.546	(0.931)	16536	0.50000	0.531(a)
	75 trans-1,4-Dichloro-2-butene	53	14.432	14.442	(0.924)	33334	0.50000	0.536(aA)
	76 2-Chlorotoluene	126	14.685	14.695	(0.940)	17475	0.50000	0.598(a)

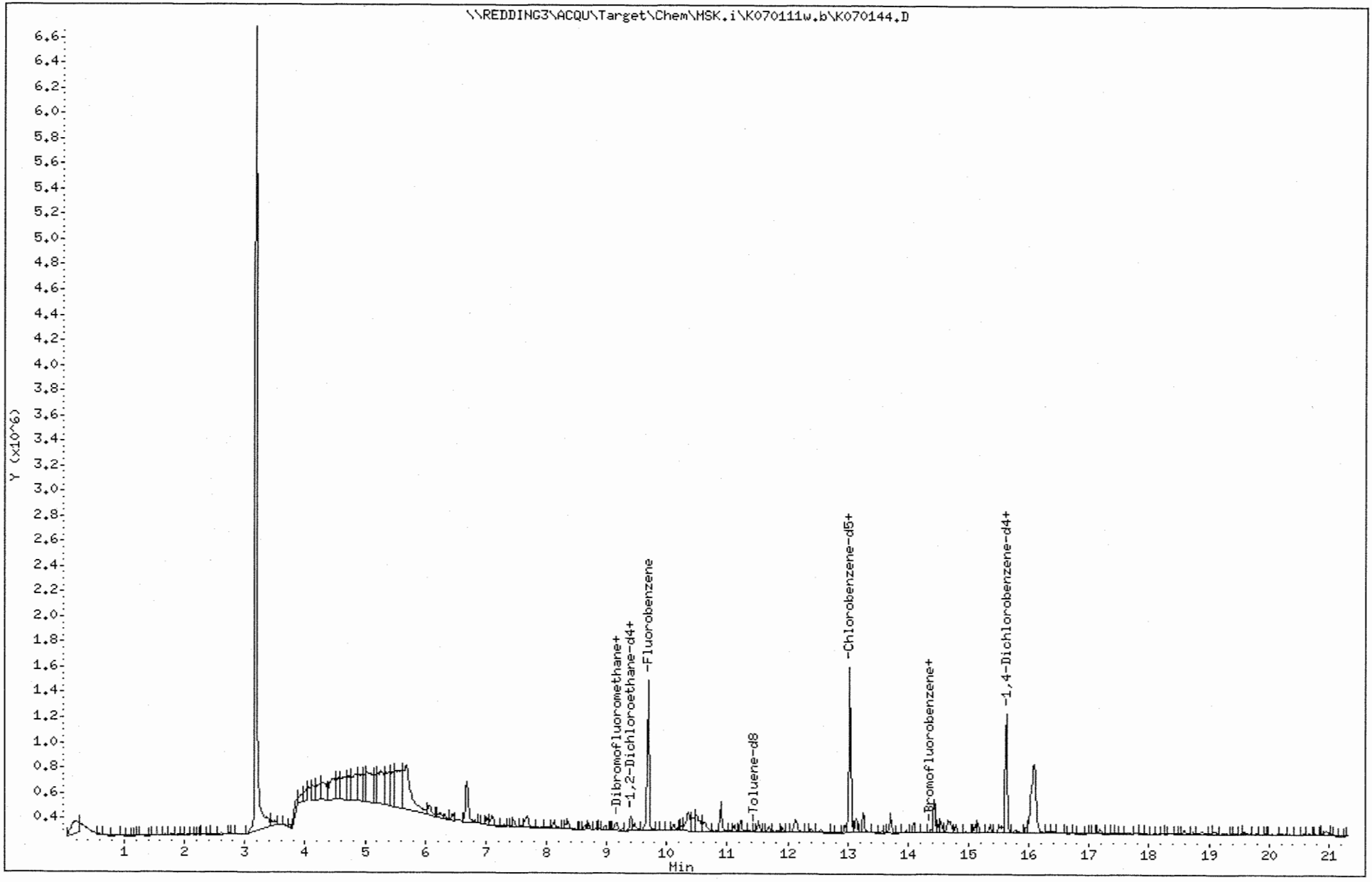
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77 4-Ethyltoluene	105	14.655	14.665	(0.938)	66168	0.50000	0.632(aAH)
78 1,3,5-Trimethylbenzene	105	14.715	14.724	(0.942)	58326	0.50000	0.569(aQ)
79 4-Chlorotoluene	126	14.804	14.799	(0.948)	18164	0.50000	0.596(a)
80 tert-Butylbenzene	119	15.102	15.111	(0.967)	50061	0.50000	0.545(a)
81 1,2,4-Trimethylbenzene	105	15.161	15.156	(0.970)	56156	0.50000	0.553(a)
82 sec-Butylbenzene	105	15.354	15.364	(0.983)	65128	0.50000	0.540(a)
83 1,3-Dichlorobenzene	146	15.548	15.557	(0.995)	30385	0.50000	0.550(a)
84 p-Isopropyltoluene	119	15.503	15.513	(0.992)	55473	0.50000	0.539(a)
85 1,4-Dichlorobenzene	146	15.652	15.662	(1.002)	31944	0.50000	0.563(a)
86 BenzylChloride	126	14.804	14.799	(0.948)	18164	0.50000	0.596(a)
87 n-Butylbenzene	91	16.009	16.018	(1.025)	51125	0.50000	0.507(a)
88 1,2-Dichlorobenzene	146	16.143	16.137	(1.033)	31351	0.50000	0.596(a)
89 1,2-Dibromo-3-chloropropane	75	17.184	17.194	(1.100)	12774	2.00000	2.77(aQ)
90 1,2,4-Trichlorobenzene	180	18.597	18.607	(1.190)	17329	0.50000	0.475(a)
91 Hexachlorobutadiene	225	18.880	18.874	(1.209)	8668	0.50000	0.516(a)
92 Naphthalene	128	19.103	19.097	(1.223)	30439	0.50000	0.453(a)
93 1,2,3-Trichlorobenzene	180	19.594	19.588	(1.254)	15613	0.50000	0.488(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070144.D
Date : 11-JAN-2007 11:45
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: BM
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070145.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 11-JAN-2007 12:12
Operator : BM Inst ID: MSK.i
Smp Info : VSTD001;VSTD001
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:04 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 12:12 Cal File: K070145.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.687	9.697	(1.000)	1431899	10.0000	
* 2	Chlorobenzene-d5	117	13.033	13.043	(1.000)	1039226	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.622	15.616	(1.000)	460194	10.0000	
$ 4	Dibromofluoromethane	113	8.898	8.893	(0.919)	45315	1.00000	4.61(QH)
$ 5	1,2-Dichloroethane-d4	65	9.300	9.310	(0.960)	44089	1.00000	1.04
$ 6	Toluene-d8	98	11.442	11.437	(0.878)	139679	1.00000	1.04
$ 7	Bromofluorobenzene	174	14.298	14.308	(0.915)	43815	1.00000	1.05
8	Dichlorodifluoromethane	85	3.514	3.510	(0.363)	32135	1.00000	0.989(aQ)
9	1,2-Dichlorotetrafluoroethane	85	3.752	3.747	(0.387)	32820	1.00000	1.10(Q)
10	Chloromethane	50	3.841	3.837	(0.397)	48707	1.00000	1.09
11	Vinyl chloride	62	4.050	4.059	(0.418)	46132	1.00000	1.19
12	Bromomethane	94	4.659	4.655	(0.481)	18173	1.00000	0.767(a)
13	Chloroethane	64	4.838	4.833	(0.499)	19027	1.00000	1.02
14	Trichlorofluoromethane	101	5.269	5.265	(0.544)	40317	1.00000	1.02
15	1,1,2-Trichlorotrifluoroethane	101	6.058	6.053	(0.625)	37721	1.00000	0.993(a)
16	Acrolein	56	5.894	5.874	(0.608)	4998	10.0000	16.8(Q)
17	1,1-Dichloroethene	96	6.072	6.068	(0.627)	35731	1.00000	1.03
18	Acetone	43	6.087	6.083	(0.628)	77219	5.00000	7.39
19	Bromoethane	108	6.325	6.321	(0.653)	29389	1.00000	0.998(a)
20	Iodomethane	142	6.325	6.321	(0.653)	39758	1.00000	0.871(a)
21	Carbon disulfide	76	6.444	6.455	(0.665)	148028	1.00000	0.994(a)
22	Methylene chloride	84	6.727	6.722	(0.694)	43612	1.00000	0.963(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	tert-Butanol	59	6.801	6.797	(0.702)	24983	10.0000	9.06(a)
24	Acrylonitrile	53	7.009	7.005	(0.724)	127251	10.0000	9.98(a)
25	n-Hexane	57	8.125	8.135	(0.839)	50683	1.00000	1.09
26	trans-1,2-Dichloroethene	96	7.114	7.109	(0.734)	42232	1.00000	0.985(a)
27	tert-Butylmethylether	73	7.084	7.094	(0.731)	92543	1.00000	0.989(aQ)
28	1,1-Dichloroethane	63	7.649	7.644	(0.790)	80370	1.00000	0.989(a)
29	Isopropylether	45	7.679	7.689	(0.793)	202179	1.00000	1.04
30	Vinyl acetate	43	7.649	7.644	(0.790)	174807	1.00000	0.966(a)
31	tert-Butylethylether	59	8.125	8.135	(0.839)	133889	1.00000	0.974(a)
32	2,2-Dichloropropane	77	8.378	8.372	(0.865)	60025	1.00000	1.11(Q)
33	cis-1,2-Dichloroethene	96	8.348	8.358	(0.862)	46872	1.00000	0.996(a)
M 34	1,2-Dichloroethene (total)	96				89104	2.00000	1.98
35	2-Butanone	43	8.318	8.314	(0.859)	79141	5.00000	4.72(a)
36	Bromochloromethane	128	8.646	8.641	(0.893)	21743	1.00000	0.975(a)
37	Chloroform	83	8.705	8.701	(0.899)	76669	1.00000	1.00
38	1,1,1-Trichloroethane	97	8.988	8.983	(0.928)	52753	1.00000	0.996(aQ)
39	Isobutyl alcohol	43	9.136	9.132	(0.943)	38683	25.0000	26.4(Q)
40	1,1-Dichloropropene	75	9.166	9.162	(0.946)	53366	1.00000	0.978(a)
41	Carbon tetrachloride	119	9.196	9.191	(0.949)	42598	1.00000	0.994(a)
42	tert-Amylmethylether	73	9.479	9.474	(0.979)	104684	1.00000	0.982(a)
43	Benzene	78	9.404	9.414	(0.971)	157982	1.00000	0.990(a)
44	1,2-Dichloroethane	62	9.389	9.385	(0.969)	55694	1.00000	1.04
45	Trichloroethene	95	10.118	10.114	(1.045)	45162	1.00000	0.782(a)
46	1,2-Dichloropropane	63	10.356	10.352	(1.069)	46636	1.00000	0.974(aQ)
47	1,4-Dioxane	88	10.490	10.471	(1.083)	9238	25.0000	27.9(Q)
48	Dibromomethane	93	10.490	10.500	(1.083)	29734	1.00000	1.07
49	Bromodichloromethane	83	10.639	10.634	(1.098)	54651	1.00000	1.01(Q)
50	2-Chloroethylvinyl ether	63	10.892	10.902	(1.124)	240478	10.0000	10.2
51	cis-1,3-Dichloropropene	75	11.115	11.110	(1.147)	66955	1.00000	0.999(a)
52	4-Methyl-2-pentanone	43	11.234	11.229	(1.160)	187619	5.00000	4.97(a)
53	Toluene	92	11.516	11.512	(0.884)	96677	1.00000	1.00
54	trans-1,3-Dichloropropene	75	11.695	11.690	(0.897)	53442	1.00000	0.926(a)
55	1,1,2-Trichloroethane	83	11.918	11.913	(0.914)	27109	1.00000	0.932(a)
56	Tetrachloroethene	166	12.141	12.151	(0.932)	39875	1.00000	1.03
57	1,3-Dichloropropane	76	12.111	12.107	(0.929)	52040	1.00000	0.955(a)
58	2-Hexanone	43	12.126	12.122	(0.930)	136726	5.00000	5.07
59	Dibromochloromethane	129	12.379	12.389	(0.950)	39385	1.00000	0.993(a)
60	1,2-Dibromoethane	107	12.543	12.553	(0.962)	36390	1.00000	0.985(a)
61	1-Chlorohexane	91	12.959	12.954	(0.994)	59177	1.00000	1.02
62	Chlorobenzene	112	13.063	13.073	(1.002)	109264	1.00000	1.00(Q)
63	1,1,1,2-Tetrachloroethane	131	13.138	13.133	(1.008)	37906	1.00000	1.06
64	Ethylbenzene	91	13.152	13.148	(1.009)	174439	1.00000	1.02
65	m-,p-Xylene	106	13.271	13.267	(1.018)	127969	2.00000	1.98
66	o-Xylene	106	13.718	13.713	(1.052)	63677	1.00000	1.00
M 67	Xylene (total)	106				191646	3.00000	2.99
68	Styrene	104	13.718	13.728	(1.052)	115329	1.00000	1.01
69	Bromoform	173	13.971	13.966	(1.072)	24904	1.00000	0.988(a)
70	Isopropylbenzene	105	14.104	14.100	(1.082)	164752	1.00000	1.03
71	1,1,2,2-Tetrachloroethane	83	14.387	14.382	(0.921)	41434	1.00000	0.988(a)
72	Bromobenzene	156	14.506	14.501	(0.929)	41972	1.00000	0.964(a)
73	1,2,3-Trichloropropane	110	14.461	14.472	(0.926)	10353	1.00000	1.09(Q)
74	n-Propylbenzene	120	14.551	14.546	(0.931)	39878	1.00000	0.968(aQ)
75	trans-1,4-Dichloro-2-butene	53	14.432	14.442	(0.924)	74261	1.00000	0.903(aA)
76	2-Chlorotoluene	126	14.699	14.695	(0.941)	38801	1.00000	1.00

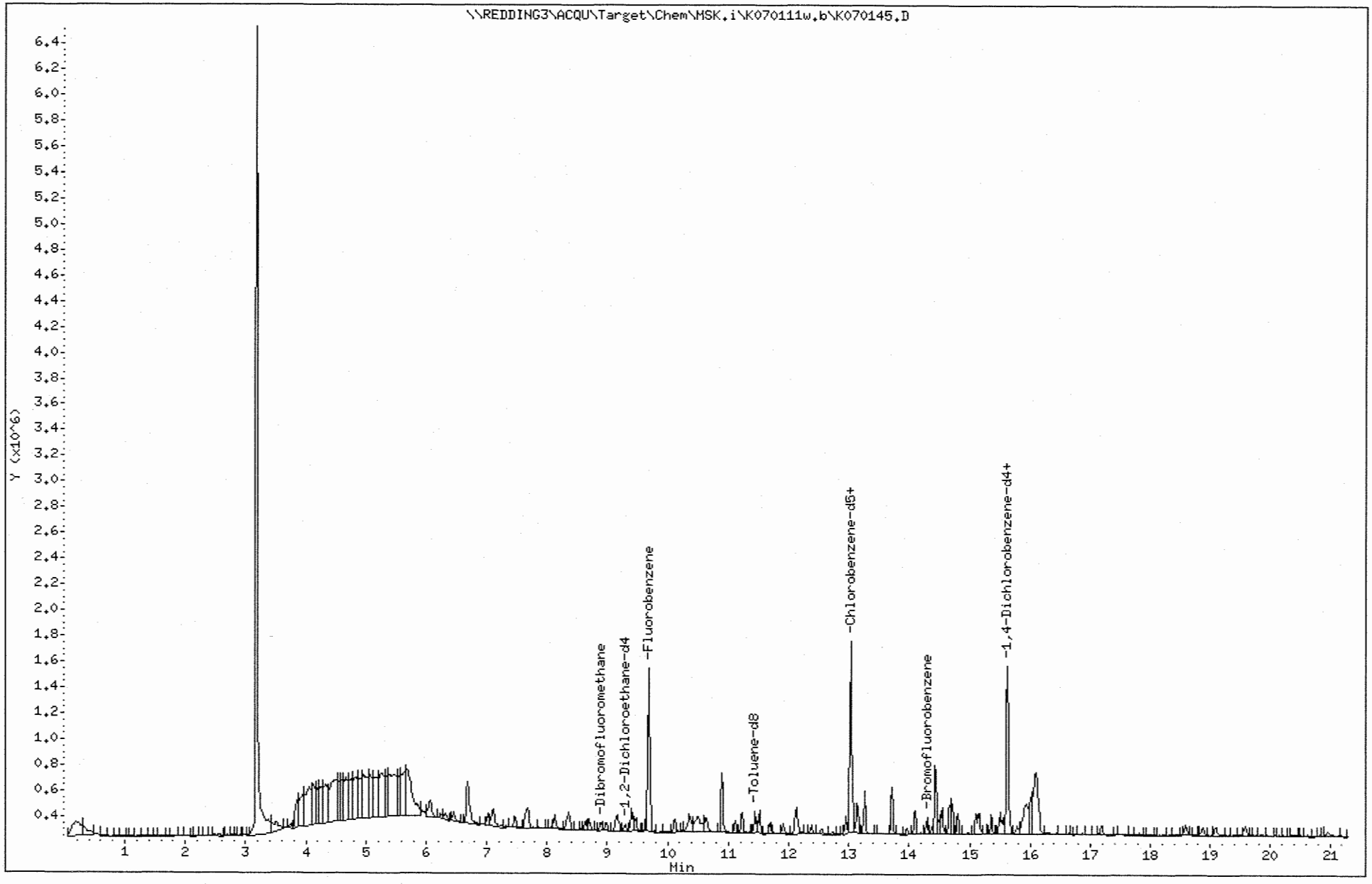
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77 4-Ethyltoluene	105	14.670	14.665	(0.939)	151704	1.00000	1.08(AH)
78 1,3,5-Trimethylbenzene	105	14.714	14.724	(0.942)	143334	1.00000	1.06(Q)
79 4-Chlorotoluene	126	14.803	14.799	(0.948)	41444	1.00000	1.03
80 tert-Butylbenzene	119	15.116	15.111	(0.968)	123673	1.00000	1.02
81 1,2,4-Trimethylbenzene	105	15.160	15.156	(0.970)	133894	1.00000	0.996(a)
82 sec-Butylbenzene	105	15.354	15.364	(0.983)	158790	1.00000	0.996(a)
83 1,3-Dichlorobenzene	146	15.547	15.557	(0.995)	72706	1.00000	0.994(a)
84 p-Isopropyltoluene	119	15.503	15.513	(0.992)	136161	1.00000	0.999(a)
85 1,4-Dichlorobenzene	146	15.651	15.662	(1.002)	77160	1.00000	1.03
86 BenzylChloride	126	14.803	14.799	(0.948)	41444	1.00000	1.03
87 n-Butylbenzene	91	16.008	16.018	(1.025)	134512	1.00000	1.01
88 1,2-Dichlorobenzene	146	16.142	16.137	(1.033)	70611	1.00000	1.01
89 1,2-Dibromo-3-chloropropane	75	17.183	17.194	(1.100)	23649	4.00000	3.87(aQ)
90 1,2,4-Trichlorobenzene	180	18.596	18.607	(1.190)	49179	1.00000	1.02
91 Hexachlorobutadiene	225	18.879	18.874	(1.209)	22911	1.00000	1.03
92 Naphthalene	128	19.102	19.097	(1.223)	93403	1.00000	1.05
93 1,2,3-Trichlorobenzene	180	19.593	19.588	(1.254)	43146	1.00000	1.02

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070145.D
Date : 11-JAN-2007 12:12
Client ID: VSTD001
Sample Info: VSTD001;VSTD001
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: BM
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070146.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 11-JAN-2007 12:38
Operator : BM Inst ID: MSK.i
Smp Info : VSTD005;VSTD005
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:04 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 12:38 Cal File: K070146.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.698	9.697	(1.000)	1395733	10.0000	
* 2	Chlorobenzene-d5	117	13.029	13.043	(1.000)	1011858	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.618	15.616	(1.000)	458653	10.0000	
$ 4	Dibromofluoromethane	113	8.894	8.893	(0.917)	226233	5.00000	12.2(QH)
$ 5	1,2-Dichloroethane-d4	65	9.311	9.310	(0.960)	204068	5.00000	4.93
$ 6	Toluene-d8	98	11.438	11.437	(0.878)	665350	5.00000	5.07
$ 7	Bromofluorobenzene	174	14.294	14.308	(0.915)	199218	5.00000	4.80
8	Dichlorodifluoromethane	85	3.510	3.510	(0.362)	160222	5.00000	5.06(Q)
9	1,2-Dichlorotetrafluoroethane	85	3.748	3.747	(0.387)	156652	5.00000	5.41(Q)
10	Chloromethane	50	3.837	3.837	(0.396)	222806	5.00000	5.12
11	Vinyl chloride	62	4.060	4.059	(0.419)	178735	5.00000	4.74
12	Bromomethane	94	4.670	4.655	(0.482)	103149	5.00000	4.46
13	Chloroethane	64	4.834	4.833	(0.498)	93640	5.00000	5.15
14	Trichlorofluoromethane	101	5.265	5.265	(0.543)	190243	5.00000	4.95
15	1,1,2-Trichlorotrifluoroethane	101	6.054	6.053	(0.624)	184799	5.00000	4.99
16	Acrolein	56	5.920	5.874	(0.610)	7055	50.0000	24.4(Q)
17	1,1-Dichloroethene	96	6.068	6.068	(0.626)	168722	5.00000	5.00
18	Acetone	43	6.083	6.083	(0.627)	251432	25.0000	24.7
19	Bromoethane	108	6.321	6.321	(0.652)	143908	5.00000	5.01
20	Iodomethane	142	6.321	6.321	(0.652)	227891	5.00000	5.12
21	Carbon disulfide	76	6.455	6.455	(0.666)	723729	5.00000	4.99
22	Methylene chloride	84	6.723	6.722	(0.693)	216305	5.00000	4.90

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	tert-Butanol	59	6.797	6.797	(0.701)	127338	50.0000	47.4
24	Acrylonitrile	53	7.020	7.005	(0.724)	618670	50.0000	49.8
25	n-Hexane	57	8.136	8.135	(0.839)	205932	5.00000	4.54
26	trans-1,2-Dichloroethene	96	7.110	7.109	(0.733)	207900	5.00000	4.98
27	tert-Butylmethylether	73	7.095	7.094	(0.732)	455597	5.00000	5.00
28	1,1-Dichloroethane	63	7.645	7.644	(0.788)	395088	5.00000	4.99
29	Isopropylether	45	7.690	7.689	(0.793)	950300	5.00000	5.02
30	Vinyl acetate	43	7.645	7.644	(0.788)	894135	5.00000	5.07
31	tert-Butylethylether	59	8.136	8.135	(0.839)	663465	5.00000	4.95
32	2,2-Dichloropropane	77	8.374	8.372	(0.864)	255378	5.00000	4.85(Q)
33	cis-1,2-Dichloroethene	96	8.359	8.358	(0.862)	227857	5.00000	4.97
M 34	1,2-Dichloroethene (total)	96				435757	10.0000	9.94
35	2-Butanone	43	8.314	8.314	(0.857)	406999	25.0000	24.9
36	Bromochloromethane	128	8.642	8.641	(0.891)	110467	5.00000	5.08
37	Chloroform	83	8.701	8.701	(0.897)	364743	5.00000	4.90
38	1,1,1-Trichloroethane	97	8.984	8.983	(0.926)	257074	5.00000	4.98(Q)
39	Isobutyl alcohol	43	9.132	9.132	(0.942)	164432	125.000	115(Q)
40	1,1-Dichloropropene	75	9.162	9.162	(0.945)	266571	5.00000	5.01
41	Carbon tetrachloride	119	9.192	9.191	(0.948)	205531	5.00000	4.92
42	tert-Amylmethylether	73	9.475	9.474	(0.977)	510592	5.00000	4.91
43	Benzene	78	9.415	9.414	(0.971)	774399	5.00000	4.98
44	1,2-Dichloroethane	62	9.385	9.385	(0.968)	254686	5.00000	4.88
45	Trichloroethene	95	10.114	10.114	(1.043)	207983	5.00000	4.90
46	1,2-Dichloropropane	63	10.352	10.352	(1.067)	233586	5.00000	5.01
47	1,4-Dioxane	88	10.471	10.471	(1.080)	34505	125.000	107(Q)
48	Dibromomethane	93	10.501	10.500	(1.083)	130151	5.00000	4.82
49	Bromodichloromethane	83	10.635	10.634	(1.097)	263845	5.00000	5.01
50	2-Chloroethylvinyl ether	63	10.888	10.902	(1.123)	1192971	50.0000	51.9
51	cis-1,3-Dichloropropene	75	11.111	11.110	(1.146)	324477	5.00000	4.96
52	4-Methyl-2-pentanone	43	11.230	11.229	(1.158)	915043	25.0000	24.9
53	Toluene	92	11.512	11.512	(0.884)	478896	5.00000	5.09
54	trans-1,3-Dichloropropene	75	11.691	11.690	(0.897)	269404	5.00000	4.79
55	1,1,2-Trichloroethane	83	11.914	11.913	(0.914)	137033	5.00000	4.84
56	Tetrachloroethene	166	12.152	12.151	(0.933)	185281	5.00000	4.90
57	1,3-Dichloropropane	76	12.107	12.107	(0.929)	263689	5.00000	4.97
58	2-Hexanone	43	12.122	12.122	(0.930)	640966	25.0000	24.4
59	Dibromochloromethane	129	12.390	12.389	(0.951)	190073	5.00000	4.92
60	1,2-Dibromoethane	107	12.553	12.553	(0.963)	172004	5.00000	4.78
61	1-Chlorohexane	91	12.955	12.954	(0.994)	282399	5.00000	5.01
62	Chlorobenzene	112	13.074	13.073	(1.003)	525270	5.00000	4.95(Q)
63	1,1,1,2-Tetrachloroethane	131	13.134	13.133	(1.008)	167440	5.00000	4.82
64	Ethylbenzene	91	13.148	13.148	(1.009)	857080	5.00000	5.12
65	m-,p-Xylene	106	13.267	13.267	(1.018)	633899	10.0000	10.1
66	o-Xylene	106	13.714	13.713	(1.053)	309430	5.00000	5.02
M 67	Xylene (total)	106				943329	15.0000	15.1
68	Styrene	104	13.714	13.728	(1.053)	563199	5.00000	5.06
69	Bromoform	173	13.967	13.966	(1.072)	119155	5.00000	4.86
70	Isopropylbenzene	105	14.100	14.100	(1.082)	798200	5.00000	5.11
71	1,1,2,2-Tetrachloroethane	83	14.383	14.382	(0.921)	195236	5.00000	4.67
72	Bromobenzene	156	14.502	14.501	(0.929)	207479	5.00000	4.78
73	1,2,3-Trichloropropane	110	14.472	14.472	(0.927)	43543	5.00000	4.60(Q)
74	n-Propylbenzene	120	14.547	14.546	(0.931)	209951	5.00000	5.11
75	trans-1,4-Dichloro-2-butene	53	14.428	14.442	(0.924)	388623	5.00000	4.74(A)
76	2-Chlorotoluene	126	14.695	14.695	(0.941)	184987	5.00000	4.80

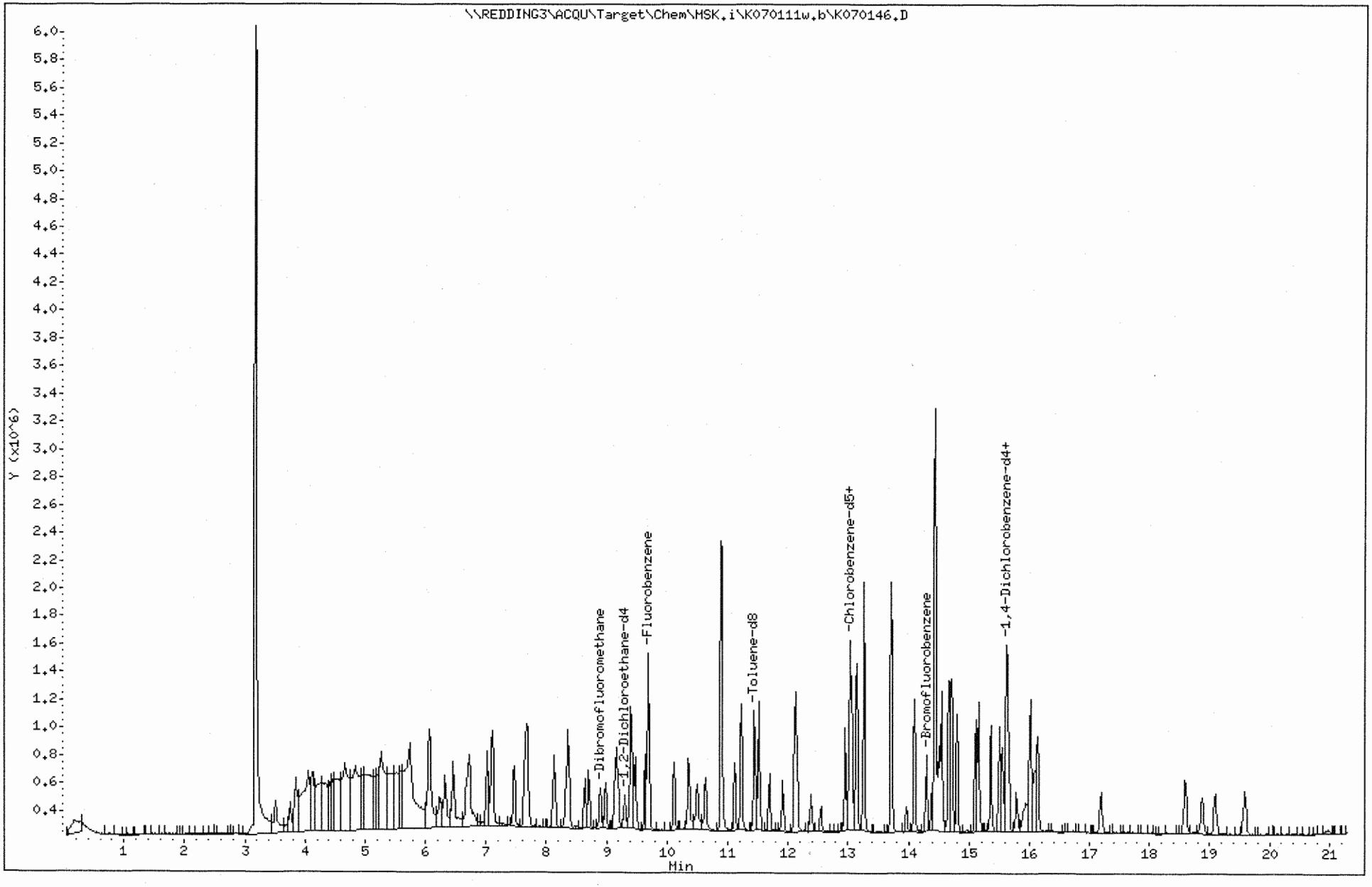
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	14.666	14.665	(0.939)	814937	5.00000	5.63(AH)
78 1,3,5-Trimethylbenzene	105	14.725	14.724	(0.943)	625261	5.00000	4.62(Q)
79 4-Chlorotoluene	126	14.799	14.799	(0.948)	197407	5.00000	4.91
80 tert-Butylbenzene	119	15.112	15.111	(0.968)	583131	5.00000	4.81
81 1,2,4-Trimethylbenzene	105	15.156	15.156	(0.970)	655866	5.00000	4.89
82 sec-Butylbenzene	105	15.365	15.364	(0.984)	789187	5.00000	4.96
83 1,3-Dichlorobenzene	146	15.558	15.557	(0.996)	361112	5.00000	4.95
84 p-Isopropyltoluene	119	15.513	15.513	(0.993)	666767	5.00000	4.91
85 1,4-Dichlorobenzene	146	15.647	15.662	(1.002)	368214	5.00000	4.92
86 BenzylChloride	126	14.799	14.799	(0.948)	197407	5.00000	4.91
87 n-Butylbenzene	91	16.019	16.018	(1.026)	670997	5.00000	5.04
88 1,2-Dichlorobenzene	146	16.138	16.137	(1.033)	338129	5.00000	4.88
89 1,2-Dibromo-3-chloropropane	75	17.194	17.194	(1.101)	116392	20.0000	19.1(Q)
90 1,2,4-Trichlorobenzene	180	18.592	18.607	(1.190)	240339	5.00000	4.99
91 Hexachlorobutadiene	225	18.875	18.874	(1.209)	110556	5.00000	4.99
92 Naphthalene	128	19.098	19.097	(1.223)	451000	5.00000	5.09
93 1,2,3-Trichlorobenzene	180	19.589	19.588	(1.254)	212027	5.00000	5.02

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070146.D
Date : 11-JAN-2007 12:38
Client ID: VSTD005
Sample Info: VSTD005;VSTD005
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: BM
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070147.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 11-JAN-2007 13:05
Operator : BM Inst ID: MSK.i
Smp Info : VSTD010;VSTD010
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:04 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 13:05 Cal File: K070147.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.696	9.697	(1.000)	1391577	10.0000	
* 2	Chlorobenzene-d5	117	13.043	13.043	(1.000)	1005215	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.631	15.616	(1.000)	452228	10.0000	
$ 4	Dibromofluoromethane	113	8.893	8.893	(0.917)	449775	10.0000	16.6(H)
$ 5	1,2-Dichloroethane-d4	65	9.309	9.310	(0.960)	430483	10.0000	10.4
$ 6	Toluene-d8	98	11.436	11.437	(0.877)	1289433	10.0000	9.89
$ 7	Bromofluorobenzene	174	14.307	14.308	(0.915)	406417	10.0000	9.93
8	Dichlorodifluoromethane	85	3.508	3.510	(0.362)	308193	10.0000	9.76
9	1,2-Dichlorotetrafluoroethane	85	3.746	3.747	(0.386)	291276	10.0000	10.1
10	Chloromethane	50	3.836	3.837	(0.396)	423298	10.0000	9.76
11	Vinyl chloride	62	4.059	4.059	(0.419)	356033	10.0000	9.46
12	Bromomethane	94	4.668	4.655	(0.482)	218423	10.0000	9.48
13	Chloroethane	64	4.832	4.833	(0.498)	178662	10.0000	9.85
14	Trichlorofluoromethane	101	5.278	5.265	(0.544)	371392	10.0000	9.70
15	1,1,2-Trichlorotrifluoroethane	101	6.052	6.053	(0.624)	360713	10.0000	9.77
16	Acrolein	56	5.888	5.874	(0.607)	4884	100.000	16.9
17	1,1-Dichloroethene	96	6.082	6.068	(0.627)	320048	10.0000	9.51
18	Acetone	43	6.082	6.083	(0.627)	448566	50.0000	44.2
19	Bromoethane	108	6.319	6.321	(0.652)	279141	10.0000	9.75
20	Iodomethane	142	6.319	6.321	(0.652)	471684	10.0000	10.6
21	Carbon disulfide	76	6.453	6.455	(0.666)	1394634	10.0000	9.64
22	Methylene chloride	84	6.721	6.722	(0.693)	427170	10.0000	9.70

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 tert-Butanol	59	6.795	6.797	(0.701)	249515	100.000	93.1
	24 Acrylonitrile	53	7.019	7.005	(0.724)	1209047	100.000	97.6
	25 n-Hexane	57	8.134	8.135	(0.839)	400384	10.0000	8.85
	26 trans-1,2-Dichloroethene	96	7.108	7.109	(0.733)	402020	10.0000	9.65
	27 tert-Butylmethylether	73	7.093	7.094	(0.732)	881674	10.0000	9.70
	28 1,1-Dichloroethane	63	7.643	7.644	(0.788)	763763	10.0000	9.67
	29 Isopropylether	45	7.688	7.689	(0.793)	1840419	10.0000	9.76
	30 Vinyl acetate	43	7.643	7.644	(0.788)	1707883	10.0000	9.71
	31 tert-Butylethylether	59	8.134	8.135	(0.839)	1315087	10.0000	9.84
	32 2,2-Dichloropropane	77	8.372	8.372	(0.863)	494293	10.0000	9.41
	33 cis-1,2-Dichloroethene	96	8.357	8.358	(0.862)	451882	10.0000	9.88
M	34 1,2-Dichloroethene (total)	96				853902	20.0000	19.5
	35 2-Butanone	43	8.313	8.314	(0.857)	767160	50.0000	47.1
	36 Bromochloromethane	128	8.640	8.641	(0.891)	211605	10.0000	9.76
	37 Chloroform	83	8.699	8.701	(0.897)	716964	10.0000	9.66
	38 1,1,1-Trichloroethane	97	8.982	8.983	(0.926)	509680	10.0000	9.90
	39 Isobutyl alcohol	43	9.131	9.132	(0.942)	307753	250.000	216
	40 1,1-Dichloropropene	75	9.160	9.162	(0.945)	527904	10.0000	9.96
	41 Carbon tetrachloride	119	9.190	9.191	(0.948)	410684	10.0000	9.86
	42 tert-Amylmethylether	73	9.473	9.474	(0.977)	1003661	10.0000	9.69
	43 Benzene	78	9.413	9.414	(0.971)	1506603	10.0000	9.72
	44 1,2-Dichloroethane	62	9.398	9.385	(0.969)	500035	10.0000	9.62
	45 Trichloroethene	95	10.112	10.114	(1.043)	404814	10.0000	9.87
	46 1,2-Dichloropropane	63	10.350	10.352	(1.067)	452465	10.0000	9.73
	47 1,4-Dioxane	88	10.469	10.471	(1.080)	71411	250.000	222
	48 Dibromomethane	93	10.499	10.500	(1.083)	256933	10.0000	9.54
	49 Bromodichloromethane	83	10.633	10.634	(1.097)	503974	10.0000	9.60
	50 2-Chloroethylvinyl ether	63	10.901	10.902	(1.124)	2327996	100.000	102
	51 cis-1,3-Dichloropropene	75	11.109	11.110	(1.146)	624920	10.0000	9.59
	52 4-Methyl-2-pentanone	43	11.228	11.229	(1.158)	1779059	50.0000	48.5
	53 Toluene	92	11.511	11.512	(0.883)	912986	10.0000	9.78
	54 trans-1,3-Dichloropropene	75	11.689	11.690	(0.896)	532642	10.0000	9.54
	55 1,1,2-Trichloroethane	83	11.912	11.913	(0.913)	266934	10.0000	9.49
	56 Tetrachloroethene	166	12.150	12.151	(0.932)	356123	10.0000	9.48
	57 1,3-Dichloropropane	76	12.105	12.107	(0.928)	511216	10.0000	9.70
	58 2-Hexanone	43	12.120	12.122	(0.929)	1204780	50.0000	46.2
	59 Dibromochloromethane	129	12.388	12.389	(0.950)	374307	10.0000	9.75
	60 1,2-Dibromoethane	107	12.552	12.553	(0.962)	344809	10.0000	9.65
	61 1-Chlorohexane	91	12.953	12.954	(0.993)	540997	10.0000	9.67
	62 Chlorobenzene	112	13.072	13.073	(1.002)	1023217	10.0000	9.71
	63 1,1,1,2-Tetrachloroethane	131	13.132	13.133	(1.007)	329169	10.0000	9.54
	64 Ethylbenzene	91	13.147	13.148	(1.008)	1653020	10.0000	9.95
	65 m-,p-Xylene	106	13.266	13.267	(1.017)	1245277	20.0000	20.0
	66 o-Xylene	106	13.712	13.713	(1.051)	610869	10.0000	9.97
M	67 Xylene (total)	106				1856146	30.0000	29.9
	68 Styrene	104	13.727	13.728	(1.052)	1102427	10.0000	9.98
	69 Bromoform	173	13.965	13.966	(1.071)	233132	10.0000	9.56
	70 Isopropylbenzene	105	14.099	14.100	(1.081)	1541671	10.0000	9.93
	71 1,1,2,2-Tetrachloroethane	83	14.381	14.382	(0.920)	376358	10.0000	9.13
	72 Bromobenzene	156	14.515	14.501	(0.929)	407093	10.0000	9.51
	73 1,2,3-Trichloropropane	110	14.470	14.472	(0.926)	84315	10.0000	9.03
	74 n-Propylbenzene	120	14.545	14.546	(0.931)	404272	10.0000	9.99
	75 trans-1,4-Dichloro-2-butene	53	14.441	14.442	(0.924)	802750	10.0000	9.93(A)
	76 2-Chlorotoluene	126	14.694	14.695	(0.940)	365105	10.0000	9.61

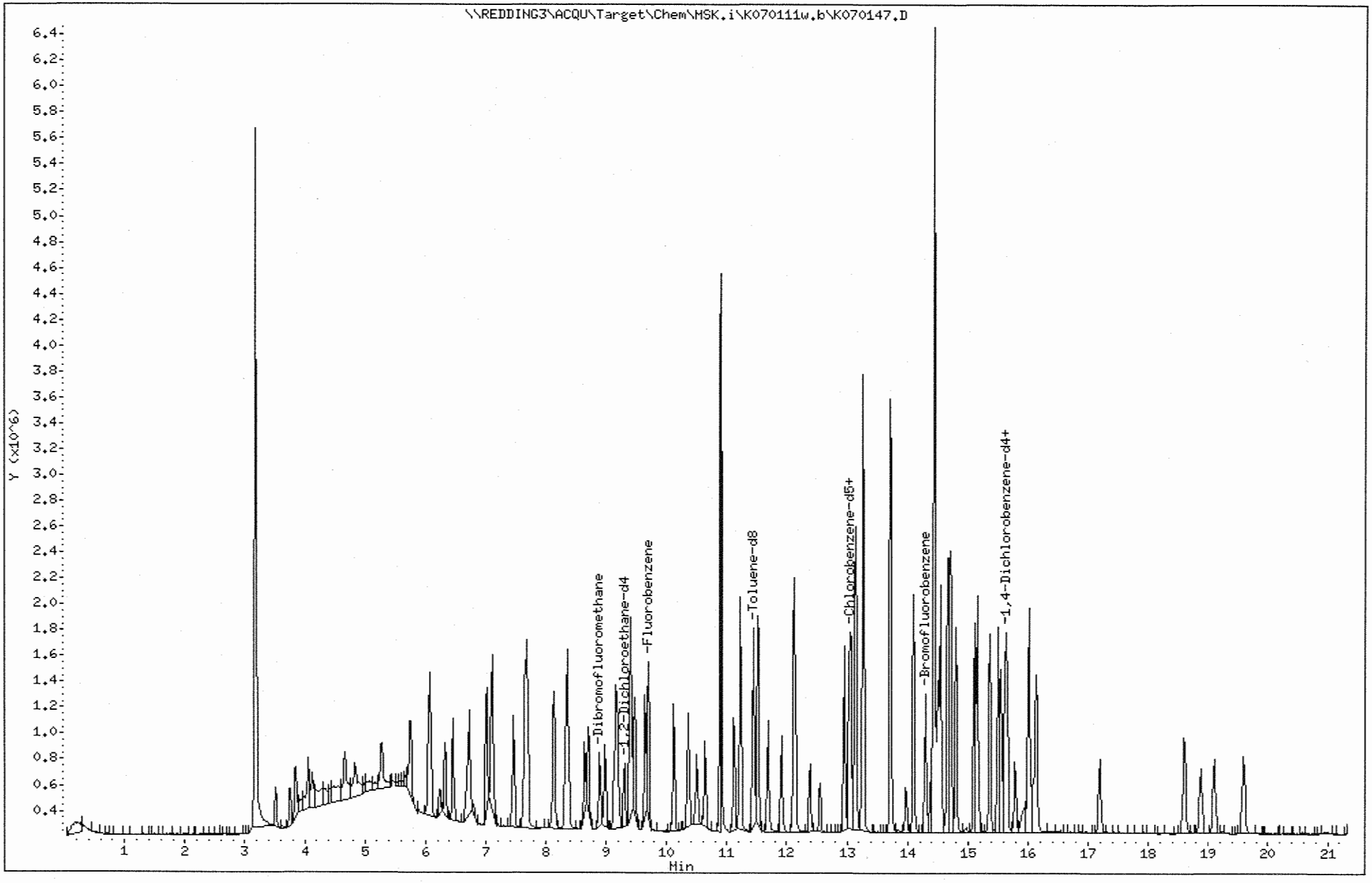
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	14.664	14.665	(0.938)	1600017	10.0000	10.8(AH)
78 1,3,5-Trimethylbenzene	105	14.723	14.724	(0.942)	1254200	10.0000	9.40
79 4-Chlorotoluene	126	14.798	14.799	(0.947)	371107	10.0000	9.36
80 tert-Butylbenzene	119	15.110	15.111	(0.967)	1173960	10.0000	9.82
81 1,2,4-Trimethylbenzene	105	15.155	15.156	(0.970)	1309534	10.0000	9.91
82 sec-Butylbenzene	105	15.363	15.364	(0.983)	1538172	10.0000	9.81
83 1,3-Dichlorobenzene	146	15.556	15.557	(0.995)	699111	10.0000	9.72
84 p-Isopropyltoluene	119	15.512	15.513	(0.992)	1320205	10.0000	9.86
85 1,4-Dichlorobenzene	146	15.660	15.662	(1.002)	705301	10.0000	9.55
86 BenzylChloride	126	14.798	14.799	(0.947)	371107	10.0000	9.36
87 n-Butylbenzene	91	16.017	16.018	(1.025)	1306288	10.0000	9.96
88 1,2-Dichlorobenzene	146	16.136	16.137	(1.032)	656547	10.0000	9.60
89 1,2-Dibromo-3-chloropropane	75	17.192	17.194	(1.100)	220877	40.0000	36.8
90 1,2,4-Trichlorobenzene	180	18.605	18.607	(1.190)	471985	10.0000	9.94
91 Hexachlorobutadiene	225	18.873	18.874	(1.207)	211583	10.0000	9.69
92 Naphthalene	128	19.096	19.097	(1.222)	862841	10.0000	9.88
93 1,2,3-Trichlorobenzene	180	19.587	19.588	(1.253)	409816	10.0000	9.84

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070147.D
Date : 11-JAN-2007 13:05
Client ID: VSTD010
Sample Info: VSTD010;VSTD010
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: BM
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\K070148.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 11-JAN-2007 13:31
Operator : BM Inst ID: MSK.i
Smp Info : VSTD020;VSTD020
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K070111w.b\8260w10(0.5).m
Meth Date : 17-Jan-2007 13:04 tchilder Quant Type: ISTD
Cal Date : 11-JAN-2007 13:31 Cal File: K070148.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	9.688	9.697	(1.000)	1337354	10.0000	
*	2 Chlorobenzene-d5	117	13.034	13.043	(1.000)	971552	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.622	15.616	(1.000)	436284	10.0000	
$	4 Dibromofluoromethane	113	8.899	8.893	(0.919)	911827	20.0000	26.0(H)
$	5 1,2-Dichloroethane-d4	65	9.301	9.310	(0.960)	802105	20.0000	20.2
$	6 Toluene-d8	98	11.443	11.437	(0.878)	2582939	20.0000	20.5
$	7 Bromofluorobenzene	174	14.298	14.308	(0.915)	816148	20.0000	20.7
	8 Dichlorodifluoromethane	85	3.515	3.510	(0.363)	612494	20.0000	20.2(Q)
	9 1,2-Dichlorotetrafluoroethane	85	3.753	3.747	(0.387)	556098	20.0000	20.0(Q)
	10 Chloromethane	50	3.842	3.837	(0.397)	828261	20.0000	19.9
	11 Vinyl chloride	62	4.050	4.059	(0.418)	704365	20.0000	19.5
	12 Bromomethane	94	4.660	4.655	(0.481)	457774	20.0000	20.7
	13 Chloroethane	64	4.839	4.833	(0.499)	356415	20.0000	20.4
	14 Trichlorofluoromethane	101	5.270	5.265	(0.544)	721281	20.0000	19.6
	15 1,1,2-Trichlorotrifluoroethane	101	6.058	6.053	(0.625)	723911	20.0000	20.4
	16 Acrolein	56	5.895	5.874	(0.609)	27641	200.000	99.8(Q)
	17 1,1-Dichloroethene	96	6.073	6.068	(0.627)	639815	20.0000	19.8
	18 Acetone	43	6.088	6.083	(0.628)	903883	100.000	92.6
	19 Bromoethane	108	6.326	6.321	(0.653)	549740	20.0000	20.0
	20 Iodomethane	142	6.326	6.321	(0.653)	973344	20.0000	22.8
	21 Carbon disulfide	76	6.460	6.455	(0.667)	2774259	20.0000	19.9
	22 Methylene chloride	84	6.728	6.722	(0.694)	839559	20.0000	19.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	tert-Butanol	59	6.802	6.797	(0.702)	495850	200.000	193
24	Acrylonitrile	53	7.010	7.005	(0.724)	2417614	200.000	203
25	n-Hexane	57	8.126	8.135	(0.839)	770721	20.0000	17.7
26	trans-1,2-Dichloroethene	96	7.114	7.109	(0.734)	784219	20.0000	19.6
27	tert-Butylmethylether	73	7.099	7.094	(0.733)	1731080	20.0000	19.8
28	1,1-Dichloroethane	63	7.650	7.644	(0.790)	1546980	20.0000	20.4
29	Isopropylether	45	7.680	7.689	(0.793)	3604201	20.0000	19.9
30	Vinyl acetate	43	7.650	7.644	(0.790)	3347654	20.0000	19.8
31	tert-Butylethylether	59	8.126	8.135	(0.839)	2588346	20.0000	20.2
32	2,2-Dichloropropane	77	8.379	8.372	(0.865)	979252	20.0000	19.4(Q)
33	cis-1,2-Dichloroethene	96	8.349	8.358	(0.862)	880533	20.0000	20.0
M 34	1,2-Dichloroethene (total)	96				1664752	40.0000	39.6
35	2-Butanone	43	8.319	8.314	(0.859)	1565994	100.000	100
36	Bromochloromethane	128	8.646	8.641	(0.893)	419867	20.0000	20.2(Q)
37	Chloroform	83	8.706	8.701	(0.899)	1388550	20.0000	19.5
38	1,1,1-Trichloroethane	97	8.988	8.983	(0.928)	992964	20.0000	20.1(Q)
39	Isobutyl alcohol	43	9.122	9.132	(0.942)	643149	500.000	470(Q)
40	1,1-Dichloropropene	75	9.167	9.162	(0.946)	1053334	20.0000	20.7
41	Carbon tetrachloride	119	9.197	9.191	(0.949)	808504	20.0000	20.2
42	tert-Amylmethylether	73	9.479	9.474	(0.979)	1973917	20.0000	19.8
43	Benzene	78	9.405	9.414	(0.971)	3011633	20.0000	20.2
44	1,2-Dichloroethane	62	9.390	9.385	(0.969)	993814	20.0000	19.9
45	Trichloroethene	95	10.119	10.114	(1.045)	812074	20.0000	20.9
46	1,2-Dichloropropane	63	10.357	10.352	(1.069)	901384	20.0000	20.2
47	1,4-Dioxane	88	10.476	10.471	(1.081)	134887	500.000	436(Q)
48	Dibromomethane	93	10.491	10.500	(1.083)	507331	20.0000	19.6
49	Bromodichloromethane	83	10.639	10.634	(1.098)	1028928	20.0000	20.4
50	2-Chloroethylvinyl ether	63	10.892	10.902	(1.124)	4649845	200.000	211
51	cis-1,3-Dichloropropene	75	11.115	11.110	(1.147)	1249687	20.0000	20.0
52	4-Methyl-2-pentanone	43	11.220	11.229	(1.158)	3622701	100.000	103
53	Toluene	92	11.517	11.512	(0.884)	1823642	20.0000	20.2
54	trans-1,3-Dichloropropene	75	11.695	11.690	(0.897)	1056382	20.0000	19.6
55	1,1,2-Trichloroethane	83	11.919	11.913	(0.914)	517800	20.0000	19.0
56	Tetrachloroethene	166	12.142	12.151	(0.932)	711551	20.0000	19.6
57	1,3-Dichloropropane	76	12.112	12.107	(0.929)	994710	20.0000	19.5
58	2-Hexanone	43	12.127	12.122	(0.930)	2400368	100.000	95.2
59	Dibromochloromethane	129	12.380	12.389	(0.950)	740315	20.0000	20.0
60	1,2-Dibromoethane	107	12.543	12.553	(0.962)	674444	20.0000	19.5
61	1-Chlorohexane	91	12.960	12.954	(0.994)	1074488	20.0000	19.9
62	Chlorobenzene	112	13.064	13.073	(1.002)	2055097	20.0000	20.2(Q)
63	1,1,1,2-Tetrachloroethane	131	13.138	13.133	(1.008)	656562	20.0000	19.7
64	Ethylbenzene	91	13.153	13.148	(1.009)	3336096	20.0000	20.8
65	m-,p-Xylene	106	13.272	13.267	(1.018)	2477450	40.0000	41.1
66	o-Xylene	106	13.718	13.713	(1.052)	1220495	20.0000	20.6
M 67	Xylene (total)	106				3697945	60.0000	61.7
68	Styrene	104	13.718	13.728	(1.052)	2213648	20.0000	20.7
69	Bromoform	173	13.971	13.966	(1.072)	469515	20.0000	19.9
70	Isopropylbenzene	105	14.105	14.100	(1.082)	3106504	20.0000	20.7
71	1,1,2,2-Tetrachloroethane	83	14.388	14.382	(0.921)	751605	20.0000	18.9
72	Bromobenzene	156	14.507	14.501	(0.929)	800141	20.0000	19.4
73	1,2,3-Trichloropropane	110	14.462	14.472	(0.926)	166718	20.0000	18.5(Q)
74	n-Propylbenzene	120	14.551	14.546	(0.931)	784070	20.0000	20.1
75	trans-1,4-Dichloro-2-butene	53	14.432	14.442	(0.924)	1652094	20.0000	21.2(A)
76	2-Chlorotoluene	126	14.700	14.695	(0.941)	733576	20.0000	20.0

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068660.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 27-DEC-2006 14:07
Operator : X Inst ID: MSK.i
Smp Info : VSTD020;VSTD020
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\8260w10(0.5).m
Meth Date : 28-Dec-2006 09:15 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 14:07 Cal File: K068660.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	9.701	9.687	(1.000)	661705	10.0000	
*	2 Chlorobenzene-d5	117	13.033	13.034	(1.000)	468337	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.621	15.622	(1.000)	257907	10.0000	
$	4 Dibromofluoromethane	113	8.898	8.884	(0.917)	428184	20.0000	20.8
$	5 1,2-Dichloroethane-d4	65	9.300	9.300	(0.959)	440108	20.0000	19.9
$	6 Toluene-d8	98	11.442	11.442	(0.878)	1217703	20.0000	20.6
$	7 Bromofluorobenzene	174	14.297	14.298	(0.915)	456305	20.0000	20.7
	8 Dichlorodifluoromethane	85	3.514	3.514	(0.362)	380463	20.0000	19.7
	9 1,2-Dichlorotetrafluoroethane	85	3.752	3.752	(0.387)	312857	20.0000	19.5
	10 Chloromethane	50	3.841	3.842	(0.396)	321704	20.0000	19.4
	11 Vinyl chloride	62	4.049	4.050	(0.417)	297870	20.0000	18.7
	12 Bromomethane	94	4.659	4.645	(0.480)	193463	20.0000	20.7
	13 Chloroethane	64	4.837	4.823	(0.499)	160815	20.0000	19.1
	14 Trichlorofluoromethane	101	5.269	5.269	(0.543)	469060	20.0000	19.3
	15 1,1,2-Trichlorotrifluoroethane	101	6.057	6.043	(0.624)	340474	20.0000	19.1
	16 Acrolein	56	5.879	5.864	(0.606)	161113	200.000	219
	17 1,1-Dichloroethene	96	6.072	6.073	(0.626)	289745	20.0000	17.4
	18 Acetone	43	6.087	6.087	(0.627)	383548	100.000	88.6
	19 Bromoethane	108	6.325	6.325	(0.652)	257559	20.0000	19.3
	20 Iodomethane	142	6.325	6.311	(0.652)	432242	20.0000	24.3
	21 Carbon disulfide	76	6.459	6.444	(0.666)	1270697	20.0000	19.7
	22 Methylene chloride	84	6.726	6.727	(0.693)	407543	20.0000	19.3
	23 tert-Butanol	59	6.801	6.787	(0.701)	203946	200.000	185

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
	24 Acrylonitrile	53	7.009	7.010	(0.723)	904264	200.000	192	
	25 n-Hexane	57	8.125	8.125	(0.837)	287980	20.0000	17.9	
	26 trans-1,2-Dichloroethene	96	7.113	7.114	(0.733)	360870	20.0000	18.9	
	27 tert-Butylmethylether	73	7.098	7.084	(0.732)	787312	20.0000	19.6	
	28 1,1-Dichloroethane	63	7.649	7.634	(0.788)	659477	20.0000	19.3	
	29 Isopropylether	45	7.678	7.679	(0.791)	1317985	20.0000	18.7	
	30 Vinyl acetate	43	7.649	7.649	(0.788)	1284320	20.0000	19.6	
	31 tert-Butylethylether	59	8.125	8.125	(0.837)	1008336	20.0000	19.9	
	32 2,2-Dichloropropane	77	8.377	8.363	(0.864)	529839	20.0000	17.9	
	33 cis-1,2-Dichloroethene	96	8.348	8.348	(0.860)	398451	20.0000	18.8	
M	34 1,2-Dichloroethene (total)	96				759321	40.0000	(a)	
	35 2-Butanone	43	8.318	8.319	(0.857)	593464	100.000	106	
	36 Bromochloromethane	128	8.645	8.646	(0.891)	191266	20.0000	19.1	
	37 Chloroform	83	8.705	8.705	(0.897)	735895	20.0000	18.7	
	38 1,1,1-Trichloroethane	97	8.987	8.973	(0.926)	546476	20.0000	19.6	
	39 Isobutyl alcohol	43	9.121	9.122	(0.940)	228031	500.000	526	
	40 1,1-Dichloropropene	75	9.166	9.166	(0.945)	494627	20.0000	20.0	
	41 Carbon tetrachloride	119	9.196	9.196	(0.948)	413774	20.0000	19.4	
	42 tert-Amylmethylether	73	9.478	9.464	(0.977)	831313	20.0000	20.2	
	43 Benzene	78	9.404	9.404	(0.969)	1329691	20.0000	19.2	
	44 1,2-Dichloroethane	62	9.389	9.390	(0.968)	507529	20.0000	19.7	
	45 Trichloroethene	95	10.118	10.118	(1.043)	381945	20.0000	20.1	
	46 1,2-Dichloropropane	63	10.356	10.356	(1.067)	357123	20.0000	19.9	
	47 1,4-Dioxane	88	10.475	10.475	(1.080)	63836	500.000	531	
	48 Dibromomethane	93	10.490	10.490	(1.081)	255518	20.0000	19.6	
	49 Bromodichloromethane	83	10.638	10.639	(1.097)	521779	20.0000	19.8	
	50 2-Chloroethylvinyl ether	63	10.891	10.892	(1.123)	1883543	200.000	213	
	51 cis-1,3-Dichloropropene	75	11.114	11.115	(1.146)	572218	20.0000	20.6	
	52 4-Methyl-2-pentanone	43	11.233	11.219	(1.158)	1403498	100.000	107	
	53 Toluene	92	11.516	11.516	(0.884)	858169	20.0000	20.1	
	54 trans-1,3-Dichloropropene	75	11.694	11.695	(0.897)	501114	20.0000	20.3	
	55 1,1,2-Trichloroethane	83	11.917	11.903	(0.914)	250740	20.0000	19.3	
	56 Tetrachloroethene	166	12.141	12.141	(0.932)	396015	20.0000	18.4	
	57 1,3-Dichloropropane	76	12.111	12.111	(0.929)	467384	20.0000	19.9	
	58 2-Hexanone	43	12.126	12.111	(0.930)	957400	100.000	109	
	59 Dibromochloromethane	129	12.379	12.379	(0.950)	340135	20.0000	20.9	
	60 1,2-Dibromoethane	107	12.542	12.543	(0.962)	303716	20.0000	20.5	
	61 1-Chlorohexane	91	12.959	12.959	(0.994)	505447	20.0000	19.9	
	62 Chlorobenzene	112	13.063	13.063	(1.002)	918057	20.0000	19.4	
	63 1,1,1,2-Tetrachloroethane	131	13.137	13.138	(1.008)	318149	20.0000	19.9	
	64 Ethylbenzene	91	13.152	13.153	(1.009)	1667066	20.0000	20.1	
	65 m-,p-Xylene	106	13.271	13.272	(1.018)	1116997	40.0000	40.0	
	66 o-Xylene	106	13.717	13.718	(1.052)	546057	20.0000	20.1	
M	67 Xylene (total)	106				1663054	60.0000	(a)	
	68 Styrene	104	13.717	13.718	(1.052)	973270	20.0000	21.3	
	69 Bromoform	173	13.970	13.971	(1.072)	231582	20.0000	21.7	
	70 Isopropylbenzene	105	14.104	14.105	(1.082)	1442003	20.0000	20.5	
	71 1,1,2,2-Tetrachloroethane	83	14.387	14.387	(0.921)	373510	20.0000	20.2	
	72 Bromobenzene	156	14.506	14.506	(0.929)	465449	20.0000	19.6	
	73 1,2,3-Trichloropropane	110	14.461	14.462	(0.926)	84621	20.0000	20.2	
	74 n-Propylbenzene	120	14.550	14.551	(0.931)	364501	20.0000	20.3	
	75 trans-1,4-Dichloro-2-butene	53	14.431	14.432	(0.924)	857639	20.0000	21.7	(A)
	76 2-Chlorotoluene	126	14.699	14.700	(0.941)	344054	20.0000	19.2	
	77 4-Ethyltoluene	105	14.669	14.670	(0.939)	1640749	20.0000	21.2	(AM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
78 1,3,5-Trimethylbenzene	105	14.714	14.714	(0.942)	1246838	20.0000	19.8(M)
79 4-Chlorotoluene	126	14.803	14.804	(0.948)	360941	20.0000	19.2
80 tert-Butylbenzene	119	15.115	15.116	(0.968)	1080999	20.0000	20.3
81 1,2,4-Trimethylbenzene	105	15.160	15.161	(0.970)	1264004	20.0000	20.8
82 sec-Butylbenzene	105	15.368	15.354	(0.984)	1481756	20.0000	20.8
83 1,3-Dichlorobenzene	146	15.547	15.547	(0.995)	787758	20.0000	19.4
84 p-Isopropyltoluene	119	15.502	15.503	(0.992)	1232995	20.0000	21.3
85 1,4-Dichlorobenzene	146	15.651	15.651	(1.002)	798392	20.0000	19.5
86 BenzylChloride	126	14.803	14.804	(0.948)	360941	20.0000	19.2
87 n-Butylbenzene	91	16.023	16.008	(1.026)	1361167	20.0000	21.4
88 1,2-Dichlorobenzene	146	16.142	16.142	(1.033)	731017	20.0000	19.7
89 1,2-Dibromo-3-chloropropane	75	17.183	17.183	(1.100)	249298	80.0000	78.4
90 1,2,4-Trichlorobenzene	180	18.596	18.596	(1.190)	526212	20.0000	20.5
91 Hexachlorobutadiene	225	18.879	18.879	(1.209)	256559	20.0000	20.2
92 Naphthalene	128	19.102	19.087	(1.223)	832217	20.0000	22.4
93 1,2,3-Trichlorobenzene	180	19.592	19.593	(1.254)	460433	20.0000	20.6

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068660.D
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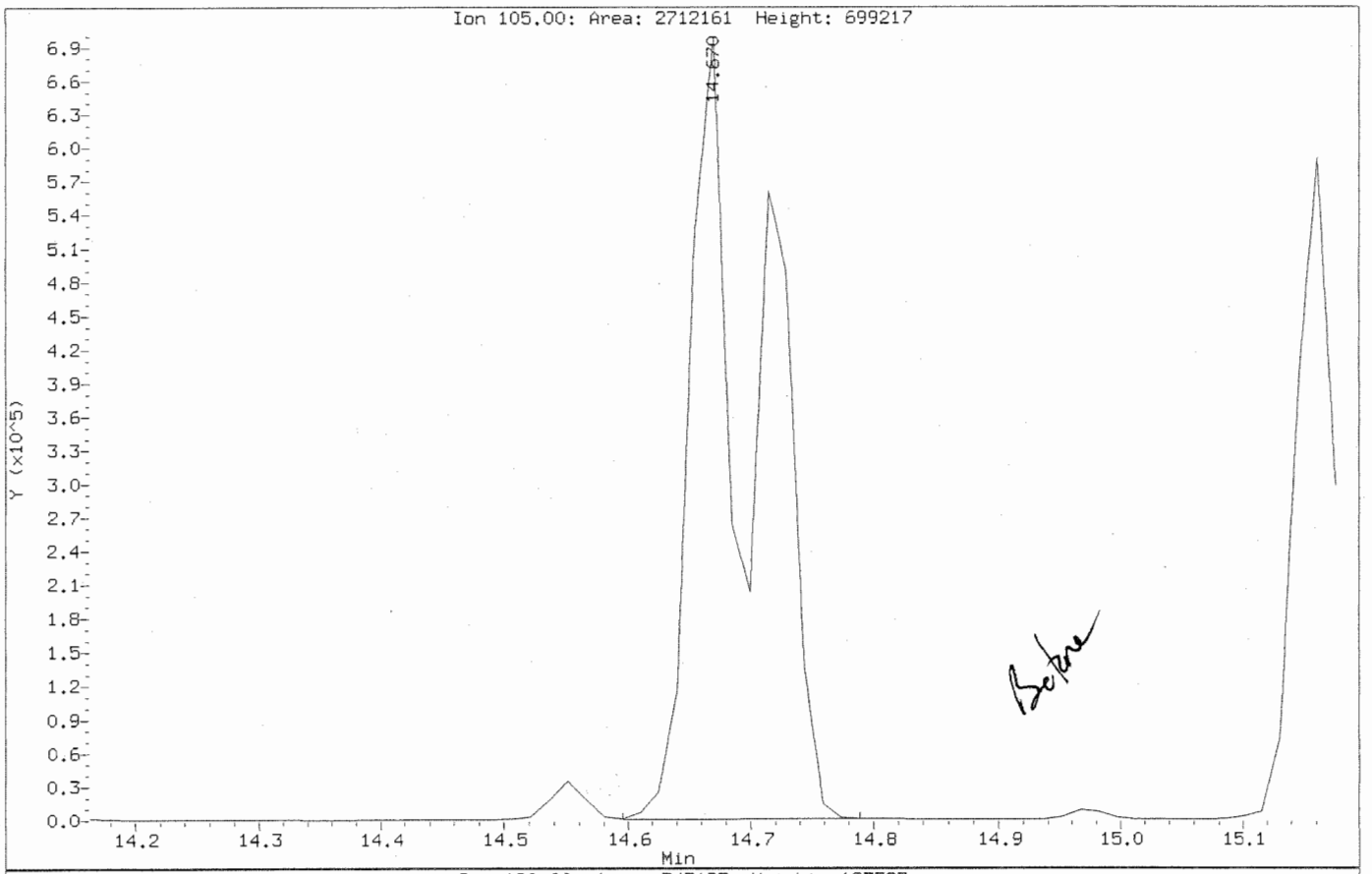
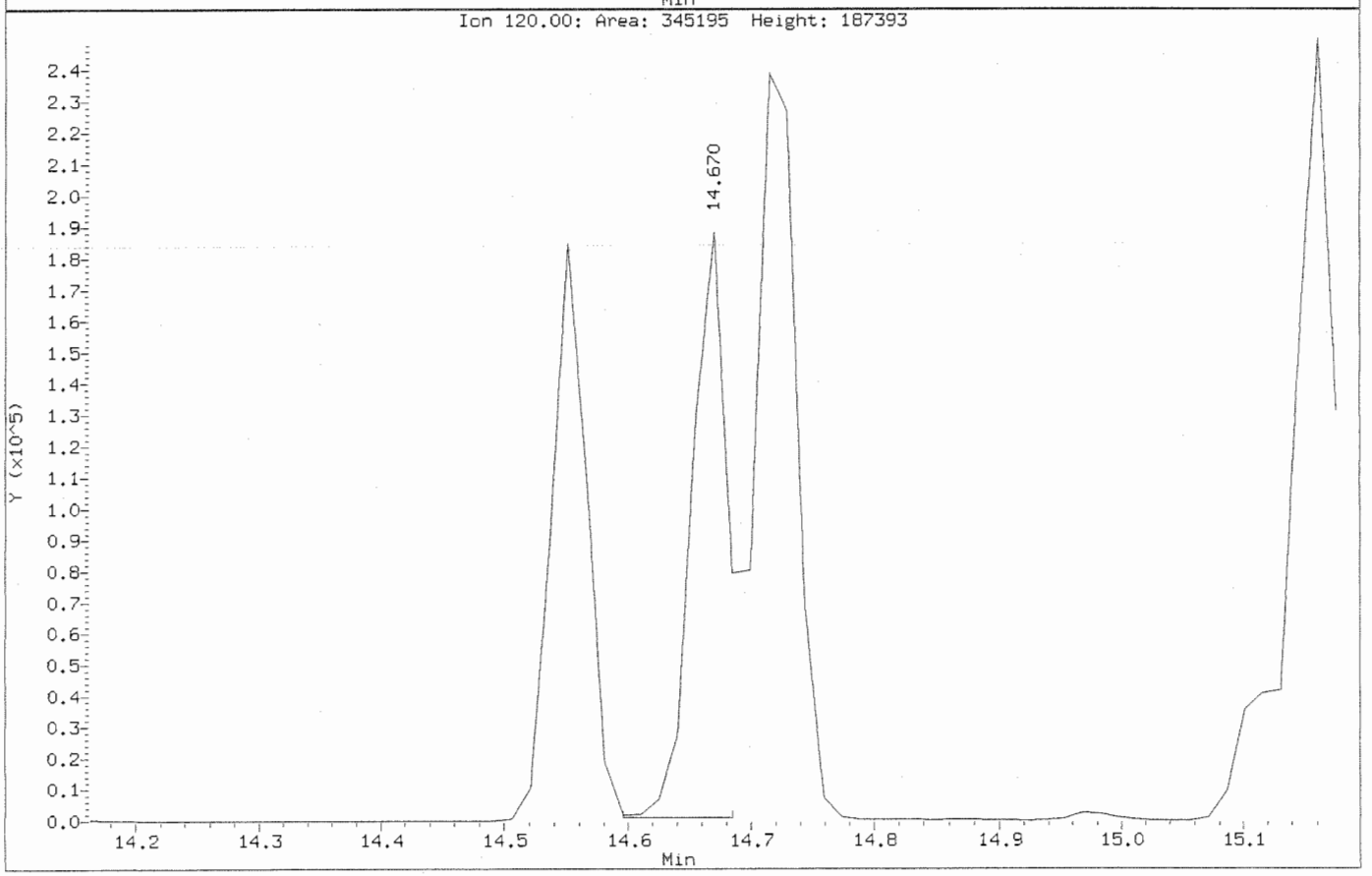
Instrument: MSK.i
Client Sample ID: VSTD020

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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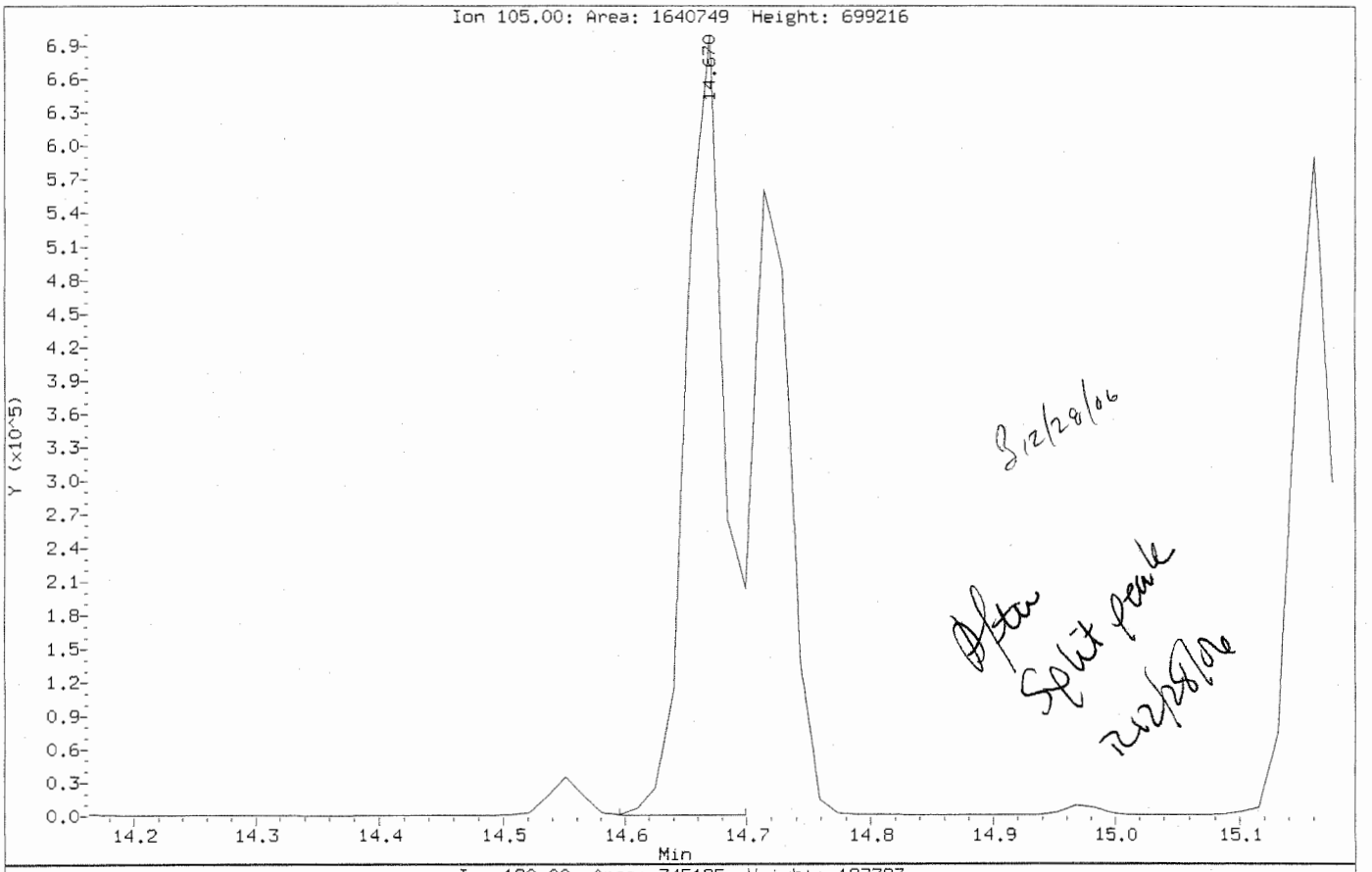
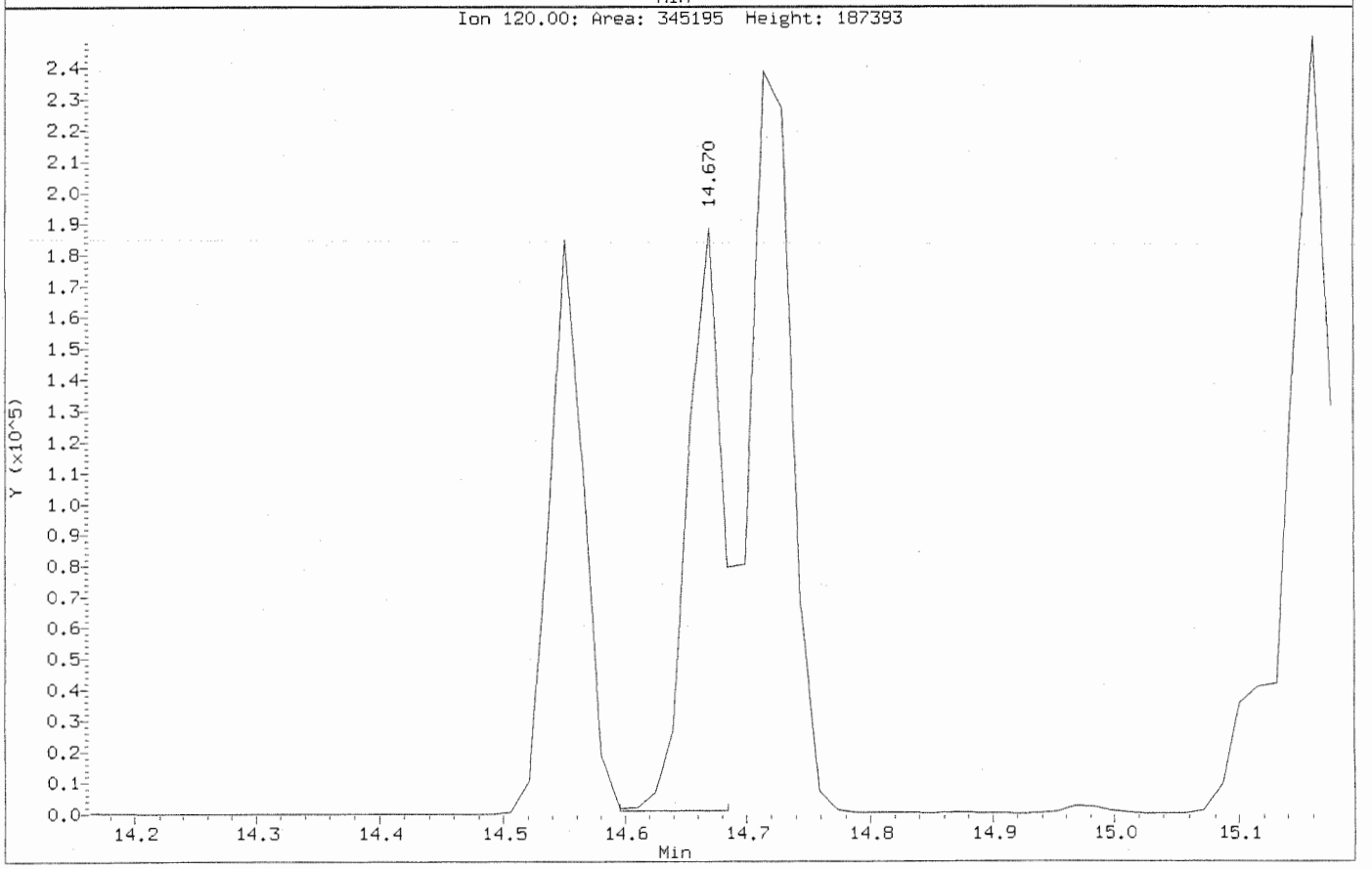
Injection Date: 27-DEC-2006 14:07
Instrument: MSK.i
Client Sample ID: VSTD020

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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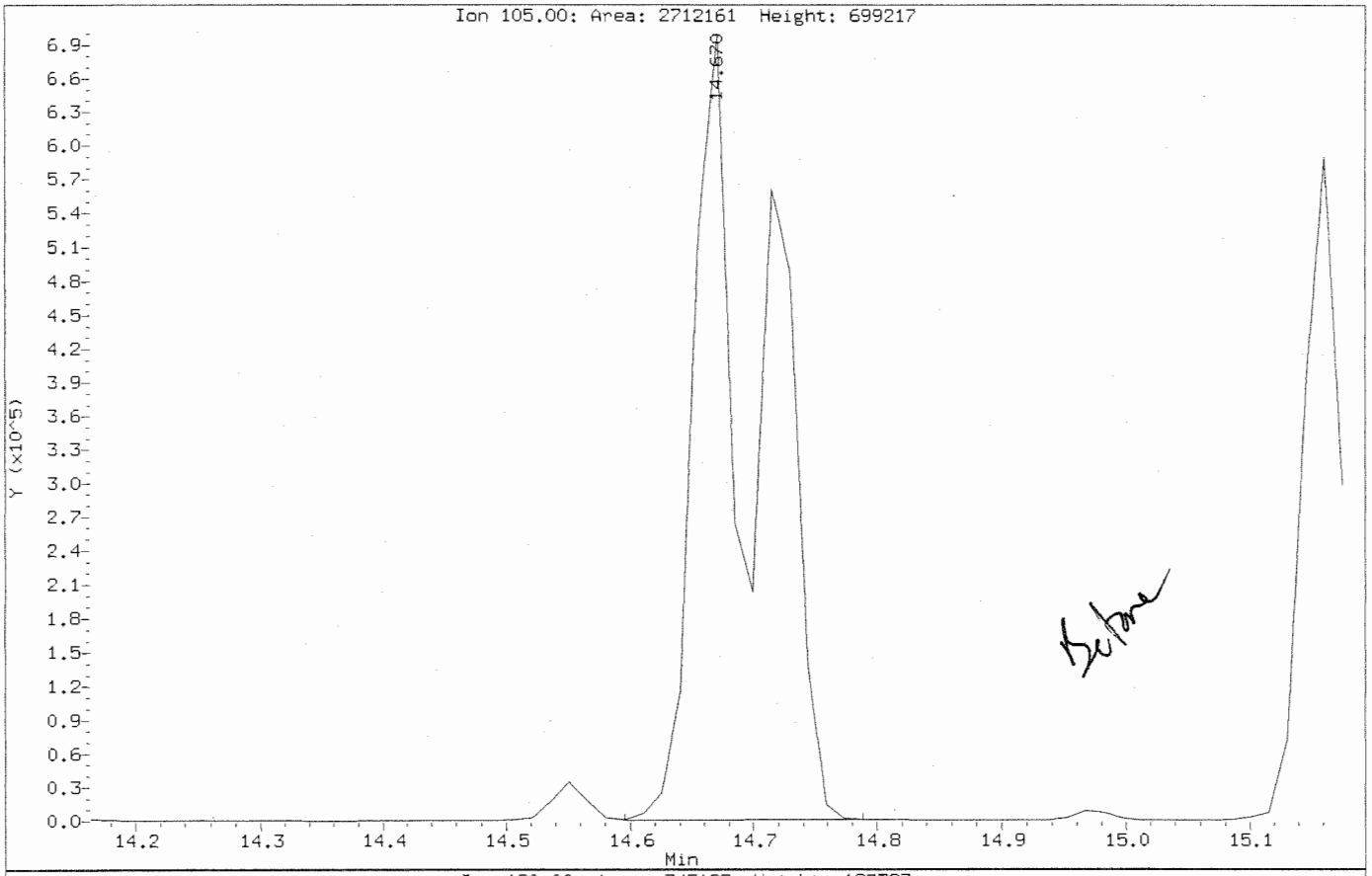
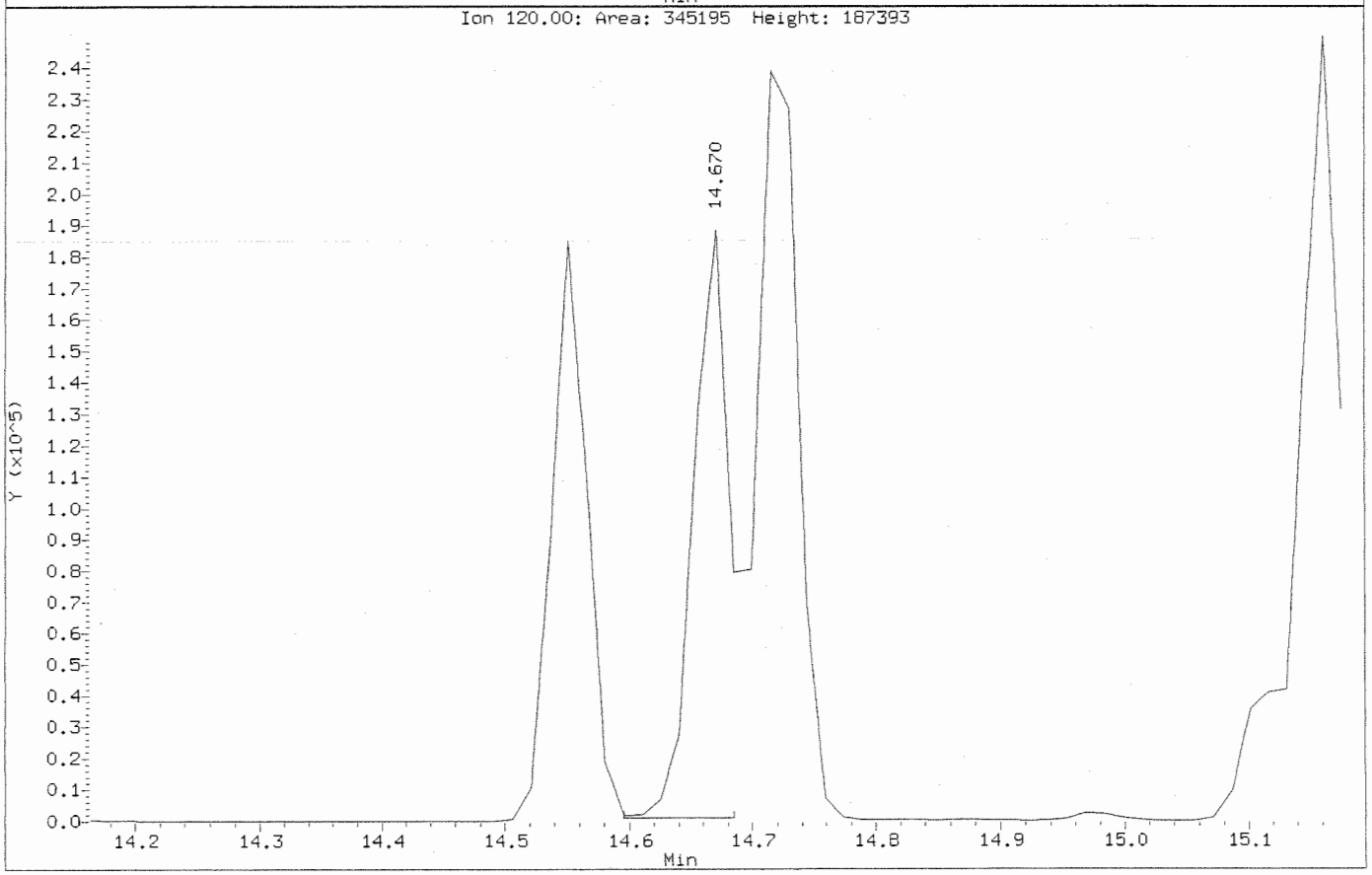
Injection Date: 27-DEC-2006 14:07
Instrument: MSK.i
Client Sample ID: VSTD020

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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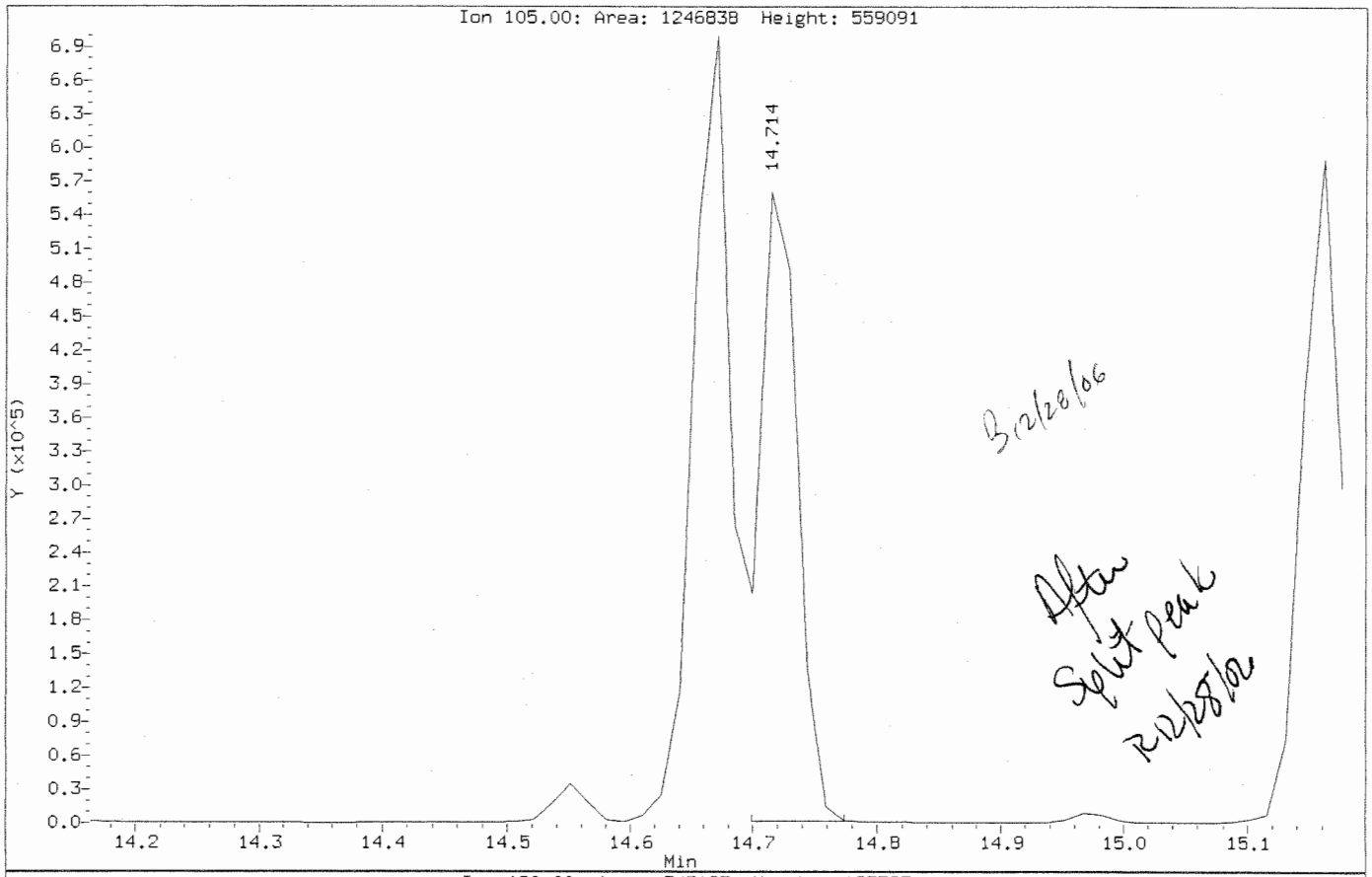
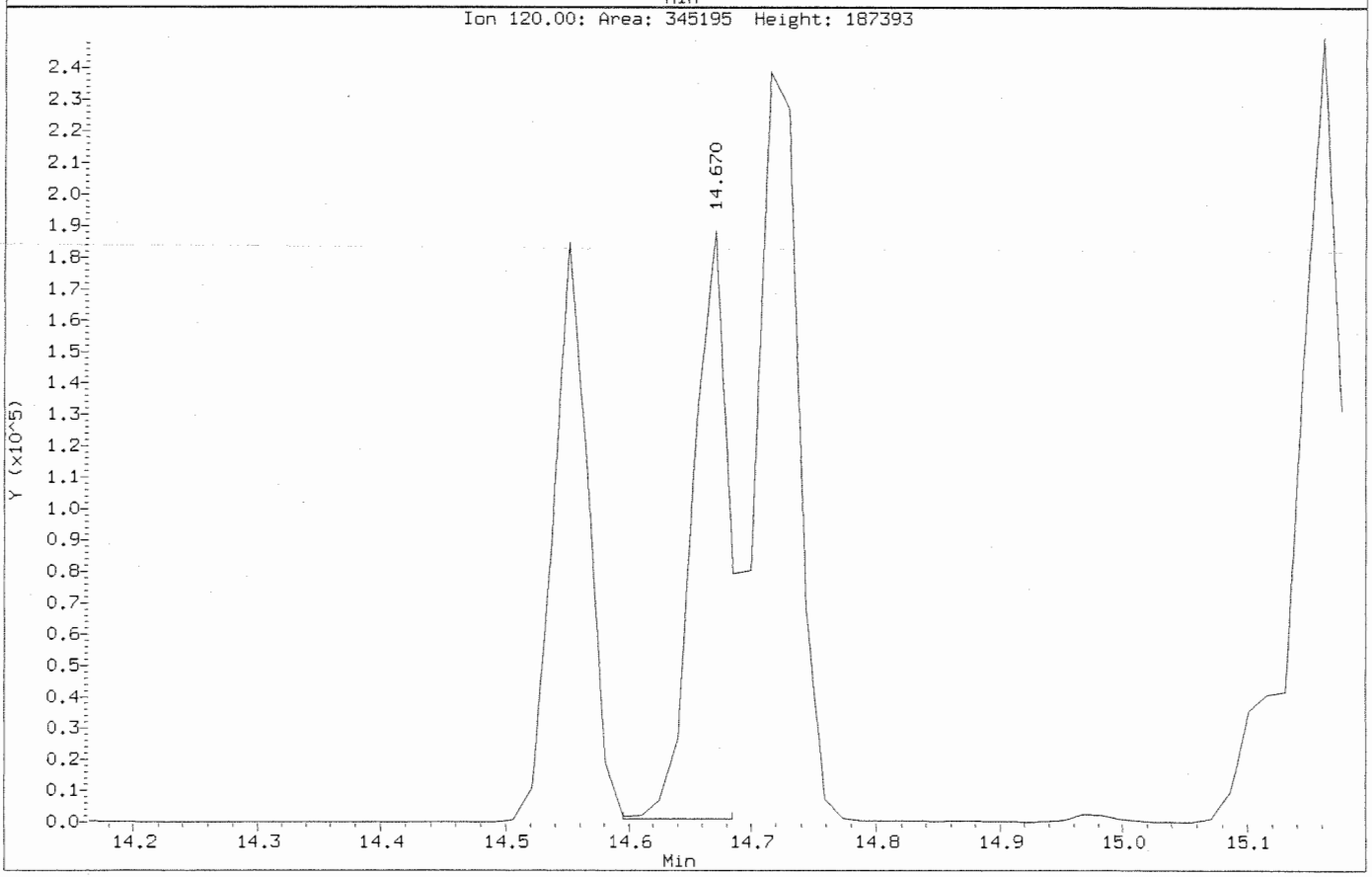
Injection Date: 27-DEC-2006 14:07
Instrument: MSK.i
Client Sample ID: VSTD020

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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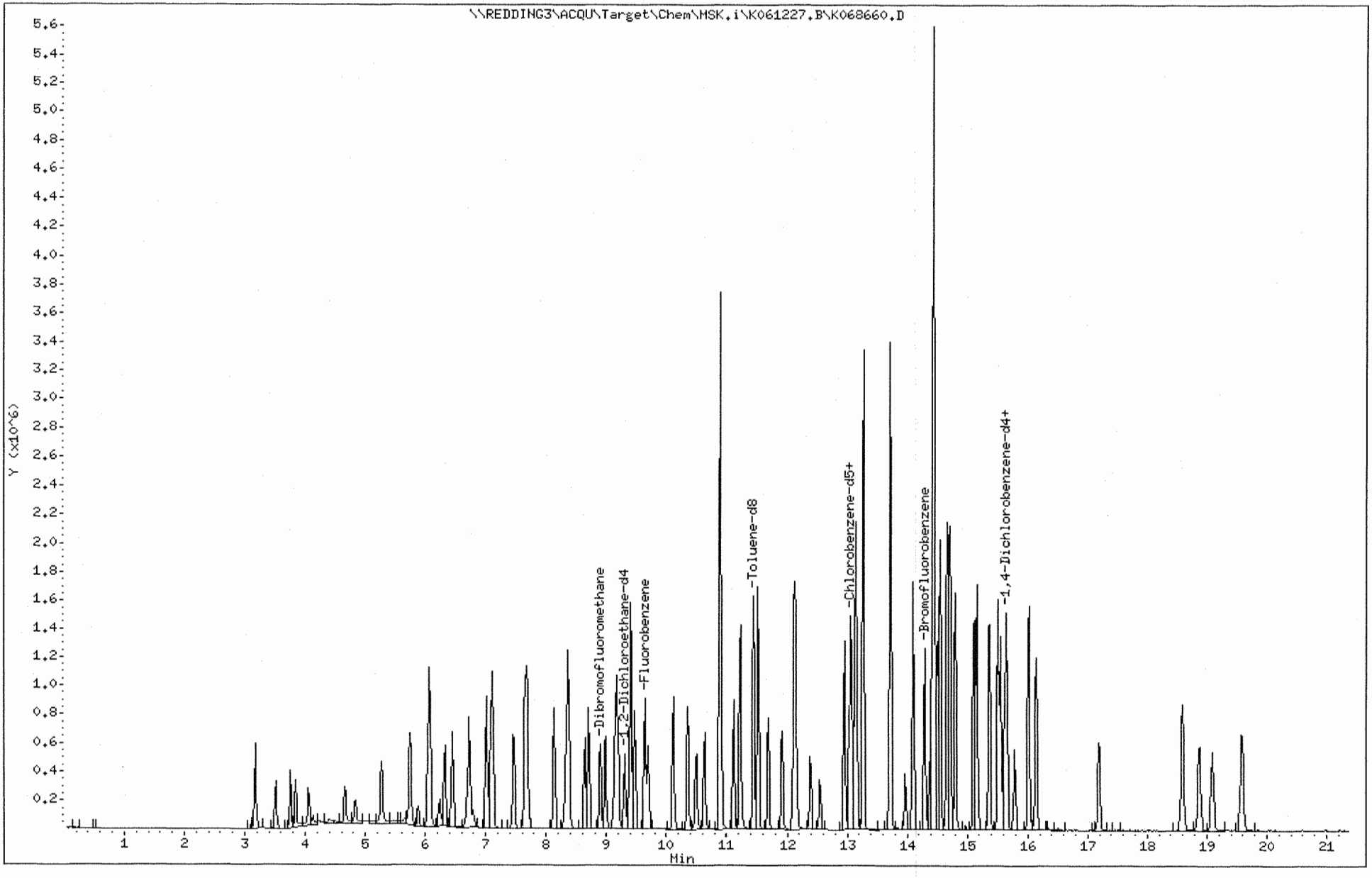
Date : 27-DEC-2006 14:07
Client ID: VSTD020
Sample Info: VSTD020;VSTD020
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068661.D
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Inj Date : 27-DEC-2006 14:33
Operator : X Inst ID: MSK.i
Smp Info : VSTD040;VSTD040
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\8260w10(0.5).m
Meth Date : 28-Dec-2006 09:15 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 14:33 Cal File: K068661.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	9.686	9.687	(1.000)	670833	10.0000	
*	2 Chlorobenzene-d5	117	13.033	13.034	(1.000)	487466	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.621	15.622	(1.000)	268217	10.0000	
$	4 Dibromofluoromethane	113	8.898	8.884	(0.919)	846617	40.0000	40.2(A)
$	5 1,2-Dichloroethane-d4	65	9.300	9.300	(0.960)	867942	40.0000	38.8
$	6 Toluene-d8	98	11.441	11.442	(0.878)	2525415	40.0000	40.7(A)
$	7 Bromofluorobenzene	174	14.297	14.298	(0.915)	944822	40.0000	40.8(A)
	8 Dichlorodifluoromethane	85	3.514	3.514	(0.363)	786295	40.0000	40.3(AQ)
	9 1,2-Dichlorotetrafluoroethane	85	3.752	3.752	(0.387)	642551	40.0000	39.7(Q)
	10 Chloromethane	50	3.841	3.842	(0.397)	671935	40.0000	40.2(A)
	11 Vinyl chloride	62	4.049	4.050	(0.418)	626675	40.0000	39.4
	12 Bromomethane	94	4.659	4.645	(0.481)	449216	40.0000	47.2(A)
	13 Chloroethane	64	4.837	4.823	(0.499)	317785	40.0000	37.6
	14 Trichlorofluoromethane	101	5.269	5.269	(0.544)	948441	40.0000	38.8
	15 1,1,2-Trichlorotrifluoroethane	101	6.057	6.043	(0.625)	704832	40.0000	39.4
	16 Acrolein	56	5.878	5.864	(0.607)	365199	400.000	480(AQ)
	17 1,1-Dichloroethene	96	6.072	6.073	(0.627)	596511	40.0000	36.3
	18 Acetone	43	6.087	6.087	(0.628)	791925	200.000	186
	19 Bromoethane	108	6.325	6.325	(0.653)	522525	40.0000	38.9
	20 Iodomethane	142	6.325	6.311	(0.653)	921851	40.0000	49.1(A)
	21 Carbon disulfide	76	6.444	6.444	(0.665)	2663213	40.0000	40.8(A)
	22 Methylene chloride	84	6.726	6.727	(0.694)	830083	40.0000	39.0
	23 tert-Butanol	59	6.786	6.787	(0.701)	446618	400.000	406(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24	Acrylonitrile	53	7.009	7.010	(0.724)	1914667	400.000	404(A)
25	n-Hexane	57	8.124	8.125	(0.839)	589999	40.0000	37.0
26	trans-1,2-Dichloroethene	96	7.113	7.114	(0.734)	735542	40.0000	38.4
27	tert-Butylmethylether	73	7.083	7.084	(0.731)	1625029	40.0000	40.0
28	1,1-Dichloroethane	63	7.648	7.634	(0.790)	1347111	40.0000	39.1
29	Isopropylether	45	7.678	7.679	(0.793)	2771120	40.0000	39.4
30	Vinyl acetate	43	7.648	7.649	(0.790)	2686472	40.0000	40.7(A)
31	tert-Butylethylether	59	8.124	8.125	(0.839)	2085953	40.0000	40.7(A)
32	2,2-Dichloropropane	77	8.377	8.363	(0.865)	1065611	40.0000	36.3(Q)
33	cis-1,2-Dichloroethene	96	8.348	8.348	(0.862)	808105	40.0000	38.0
M 34	1,2-Dichloroethene (total)	96				1543647	80.0000	(a)
35	2-Butanone	43	8.318	8.319	(0.859)	1246795	200.000	217(A)
36	Bromochloromethane	128	8.645	8.646	(0.893)	394812	40.0000	39.2
37	Chloroform	83	8.705	8.705	(0.899)	1500946	40.0000	38.1
38	1,1,1-Trichloroethane	97	8.987	8.973	(0.928)	1101732	40.0000	39.1(Q)
39	Isobutyl alcohol	43	9.121	9.122	(0.942)	517914	1000.00	1170(AQ)
40	1,1-Dichloropropene	75	9.166	9.166	(0.946)	1019926	40.0000	40.7(A)
41	Carbon tetrachloride	119	9.195	9.196	(0.949)	847837	40.0000	39.4
42	tert-Amylmethylether	73	9.478	9.464	(0.979)	1723553	40.0000	41.3(A)
43	Benzene	78	9.404	9.404	(0.971)	2737506	40.0000	39.2
44	1,2-Dichloroethane	62	9.389	9.390	(0.969)	1029694	40.0000	39.6
45	Trichloroethene	95	10.118	10.118	(1.045)	780960	40.0000	40.6(A)
46	1,2-Dichloropropane	63	10.356	10.356	(1.069)	738992	40.0000	40.7(A)
47	1,4-Dioxane	88	10.475	10.475	(1.081)	138995	1000.00	1130(AQ)
48	Dibromomethane	93	10.489	10.490	(1.083)	524291	40.0000	39.8
49	Bromodichloromethane	83	10.638	10.639	(1.098)	1087066	40.0000	40.7(A)
50	2-Chloroethylvinyl ether	63	10.891	10.892	(1.124)	3899772	400.000	429(A)
51	cis-1,3-Dichloropropene	75	11.114	11.115	(1.147)	1215771	40.0000	42.9(A)
52	4-Methyl-2-pentanone	43	11.233	11.219	(1.160)	3057151	200.000	226(A)
53	Toluene	92	11.516	11.516	(0.884)	1786439	40.0000	40.2(A)
54	trans-1,3-Dichloropropene	75	11.694	11.695	(0.897)	1073843	40.0000	41.6(A)
55	1,1,2-Trichloroethane	83	11.917	11.903	(0.914)	520902	40.0000	38.8
56	Tetrachloroethene	166	12.140	12.141	(0.932)	829186	40.0000	37.6
57	1,3-Dichloropropane	76	12.111	12.111	(0.929)	991075	40.0000	40.6(A)
58	2-Hexanone	43	12.126	12.111	(0.930)	2159743	200.000	233(A)
59	Dibromochloromethane	129	12.378	12.379	(0.950)	731151	40.0000	42.8(A)
60	1,2-Dibromoethane	107	12.542	12.543	(0.962)	649150	40.0000	41.8(A)
61	1-Chlorohexane	91	12.959	12.959	(0.994)	1072848	40.0000	40.6(A)
62	Chlorobenzene	112	13.063	13.063	(1.002)	1922034	40.0000	39.2(Q)
63	1,1,1,2-Tetrachloroethane	131	13.137	13.138	(1.008)	682798	40.0000	41.1(A)
64	Ethylbenzene	91	13.152	13.153	(1.009)	3519007	40.0000	40.7(A)
65	m-,p-Xylene	106	13.271	13.272	(1.018)	2317480	80.0000	79.8
66	o-Xylene	106	13.717	13.718	(1.052)	1132403	40.0000	40.1(A)
M 67	Xylene (total)	106				3449883	120.000	(a)
68	Styrene	104	13.717	13.718	(1.052)	2047856	40.0000	42.5(A)
69	Bromoform	173	13.970	13.971	(1.072)	522292	40.0000	46.3(A)
70	Isopropylbenzene	105	14.104	14.105	(1.082)	3103204	40.0000	42.2(A)
71	1,1,2,2-Tetrachloroethane	83	14.386	14.387	(0.921)	834755	40.0000	43.4(A)
72	Bromobenzene	156	14.505	14.506	(0.929)	975490	40.0000	39.7
73	1,2,3-Trichloropropane	110	14.461	14.462	(0.926)	180679	40.0000	41.4(AQ)
74	n-Propylbenzene	120	14.550	14.551	(0.931)	764521	40.0000	40.9(A)
75	trans-1,4-Dichloro-2-butene	53	14.431	14.432	(0.924)	1847818	40.0000	44.2(A)
76	2-Chlorotoluene	126	14.699	14.700	(0.941)	732183	40.0000	39.6
77	4-Ethyltoluene	105	14.669	14.670	(0.939)	3541467	40.0000	43.6(AM)

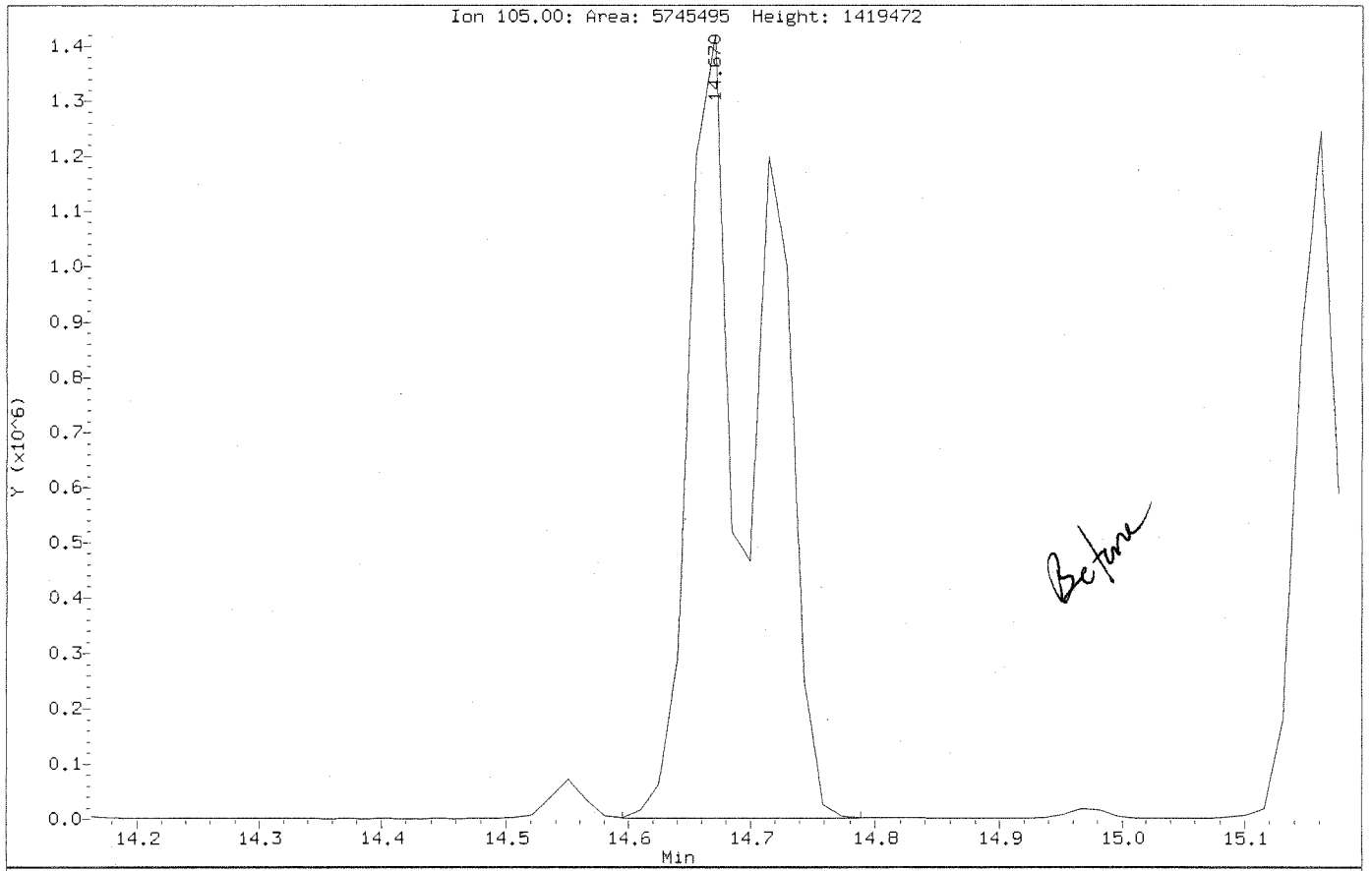
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
78 1,3,5-Trimethylbenzene	105	14.714	14.714	(0.942)	2620522	40.0000	40.2(AM)
79 4-Chlorotoluene	126	14.803	14.804	(0.948)	752651	40.0000	38.8
80 tert-Butylbenzene	119	15.115	15.116	(0.968)	2354348	40.0000	42.4(A)
81 1,2,4-Trimethylbenzene	105	15.160	15.161	(0.970)	2690205	40.0000	42.2(A)
82 sec-Butylbenzene	105	15.353	15.354	(0.983)	3102861	40.0000	41.5(A)
83 1,3-Dichlorobenzene	146	15.547	15.547	(0.995)	1655647	40.0000	39.4
84 p-Isopropyltoluene	119	15.502	15.503	(0.992)	2625615	40.0000	43.1(A)
85 1,4-Dichlorobenzene	146	15.651	15.651	(1.002)	1676539	40.0000	39.6
86 BenzylChloride	126	14.803	14.804	(0.948)	752651	40.0000	38.8
87 n-Butylbenzene	91	16.023	16.008	(1.026)	2914343	40.0000	43.5(A)
88 1,2-Dichlorobenzene	146	16.142	16.142	(1.033)	1553274	40.0000	40.3(A)
89 1,2-Dibromo-3-chloropropane	75	17.183	17.183	(1.100)	535684	160.000	163(Q)
90 1,2,4-Trichlorobenzene	180	18.596	18.596	(1.190)	1119127	40.0000	41.7(A)
91 Hexachlorobutadiene	225	18.878	18.879	(1.209)	527211	40.0000	39.8
92 Naphthalene	128	19.087	19.087	(1.222)	1793851	40.0000	45.4(A)
93 1,2,3-Trichlorobenzene	180	19.592	19.593	(1.254)	988957	40.0000	42.3(A)

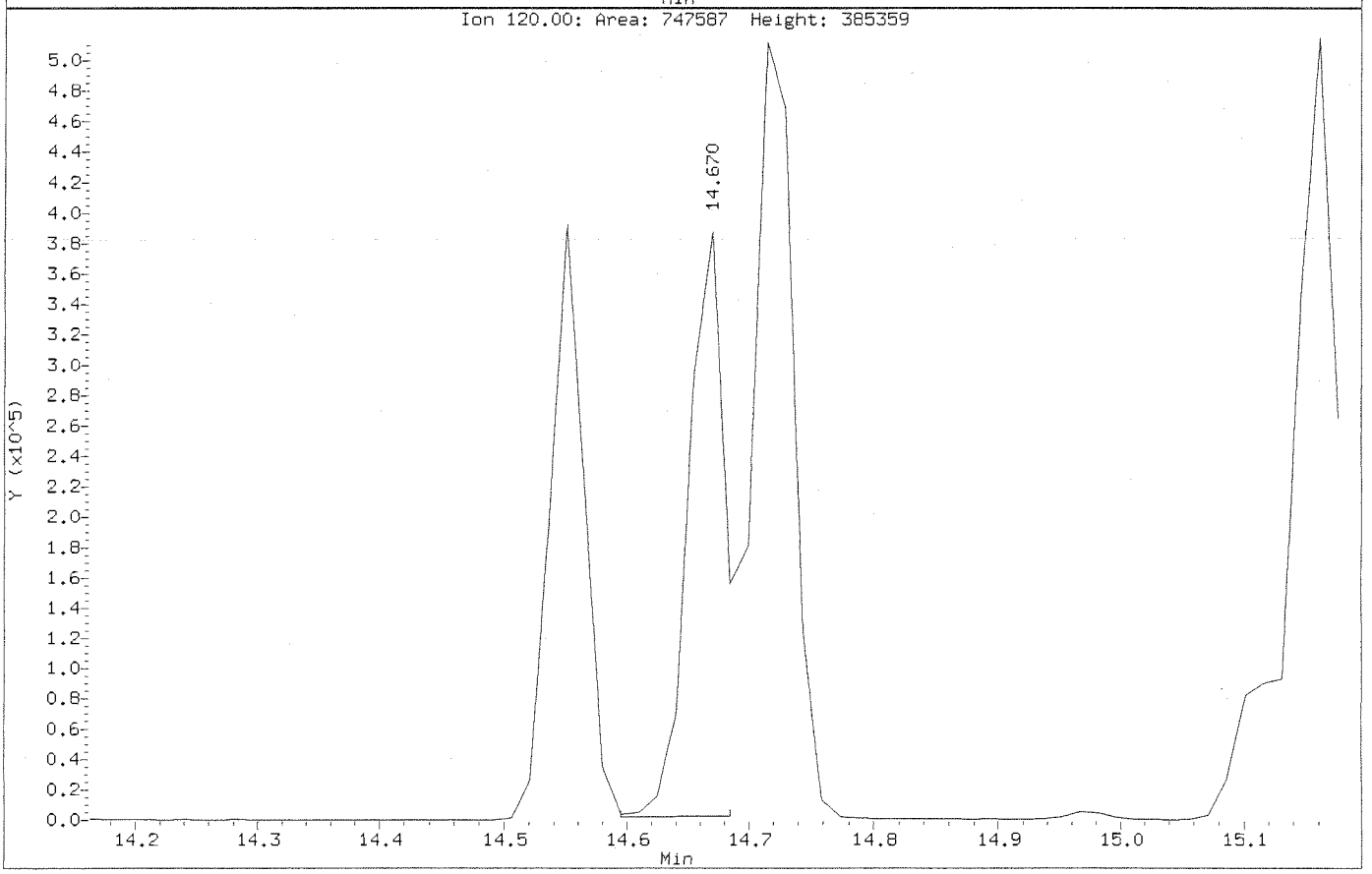
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068661.D
Injection Date: 27-DEC-2006 14:33
Instrument: MSK.i
Client Sample ID: VSTD040

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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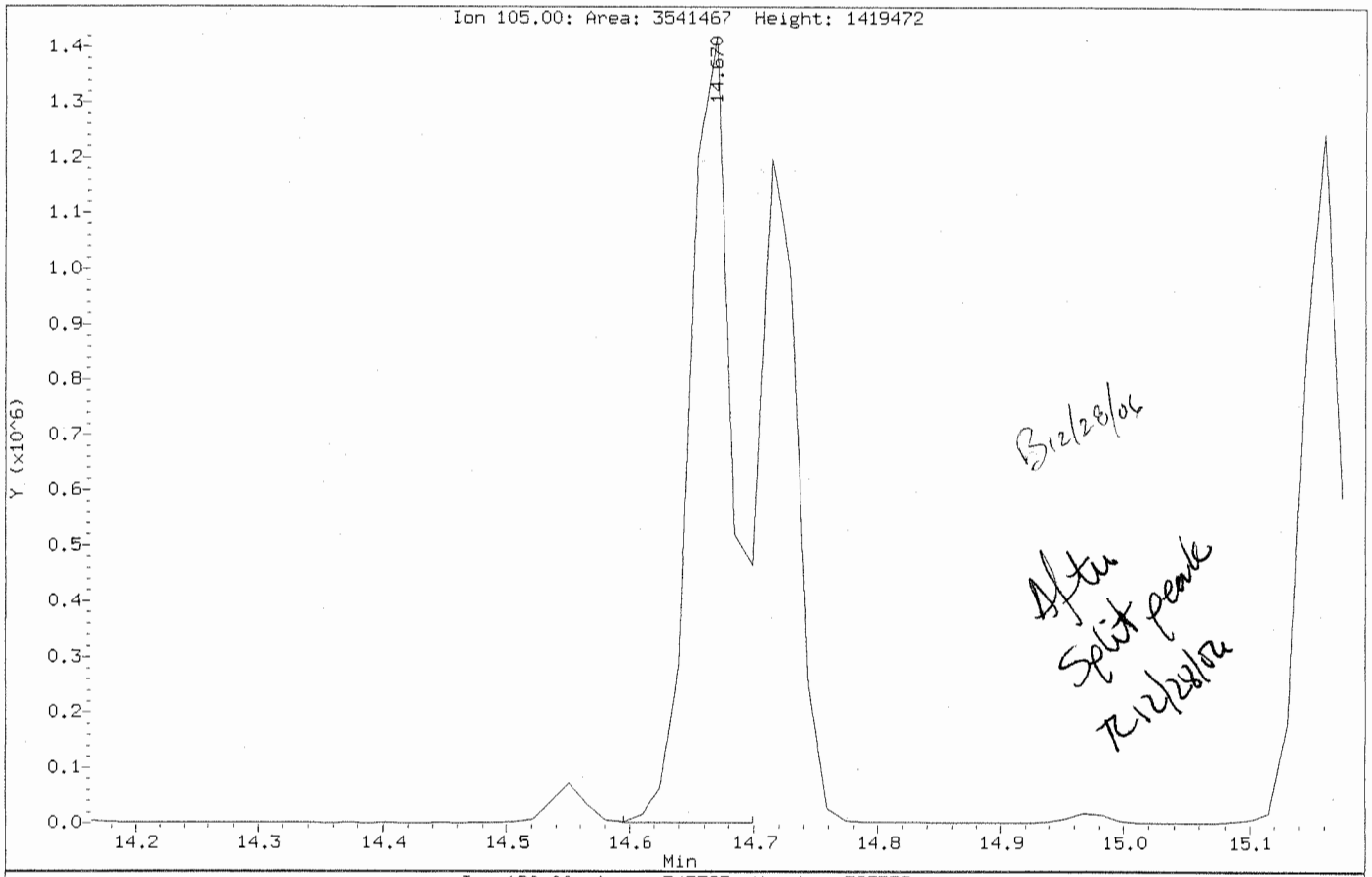
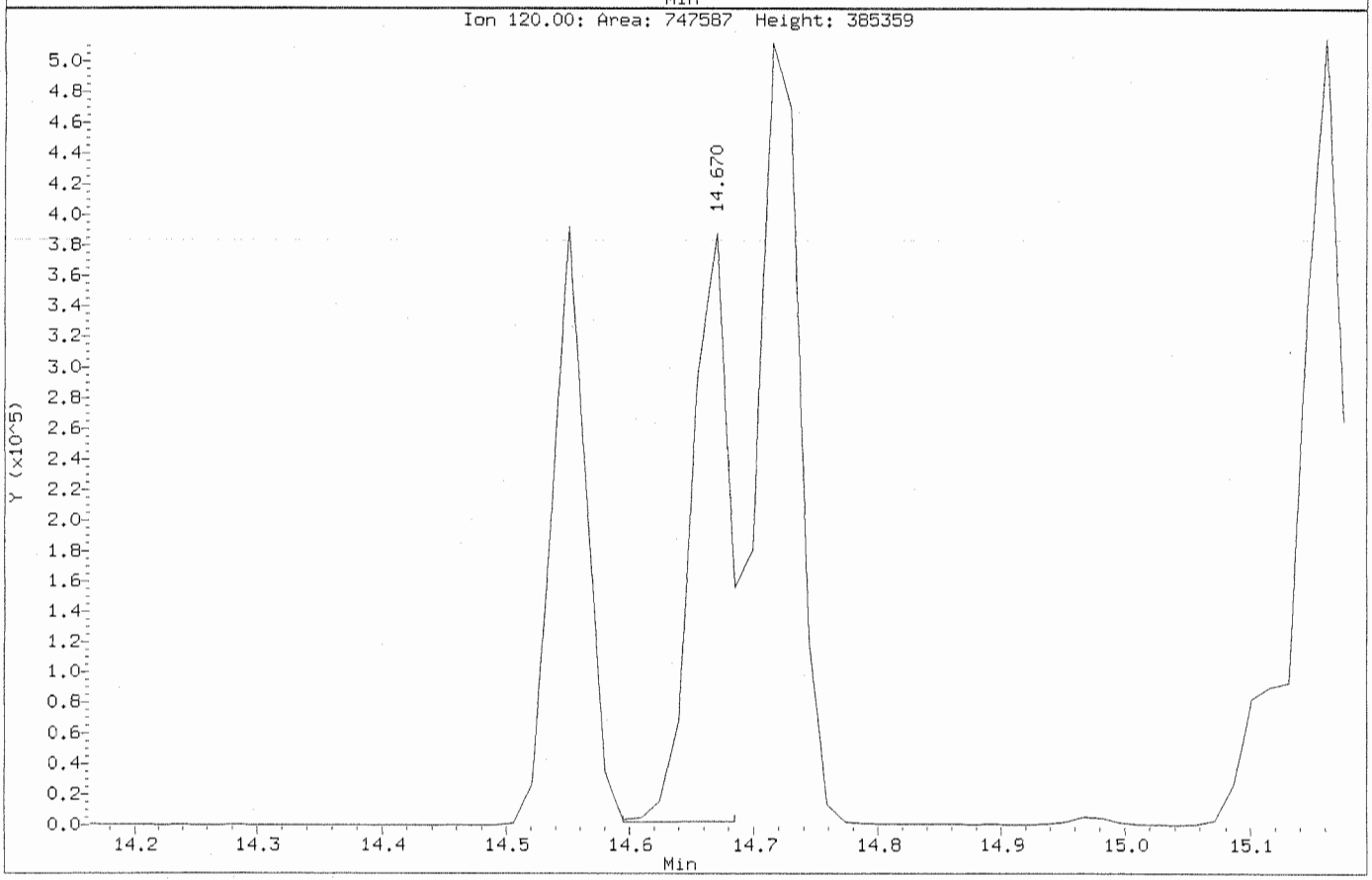
Injection Date: 27-DEC-2006 14:33
Instrument: MSK.i
Client Sample ID: VSTD040

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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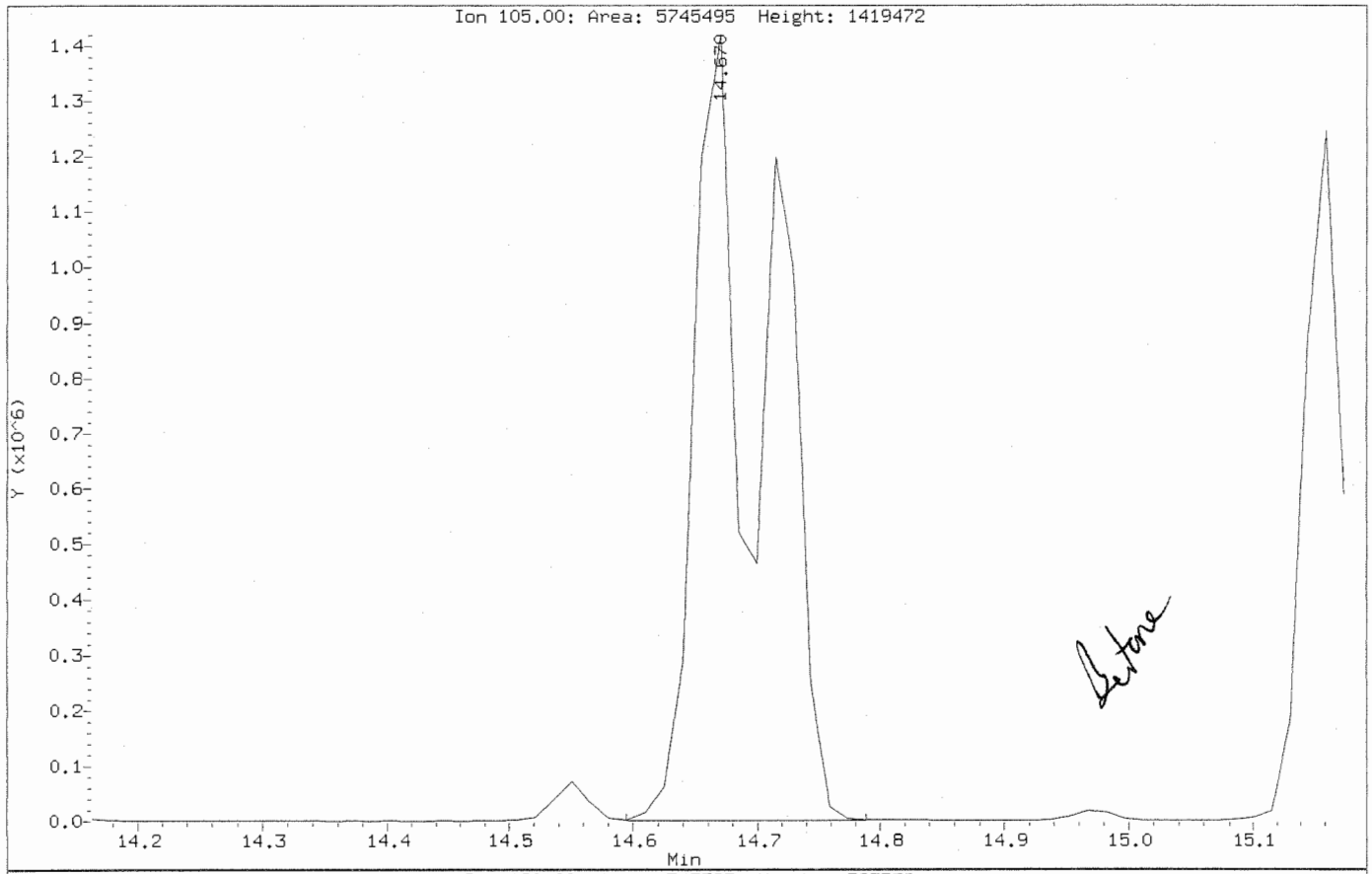
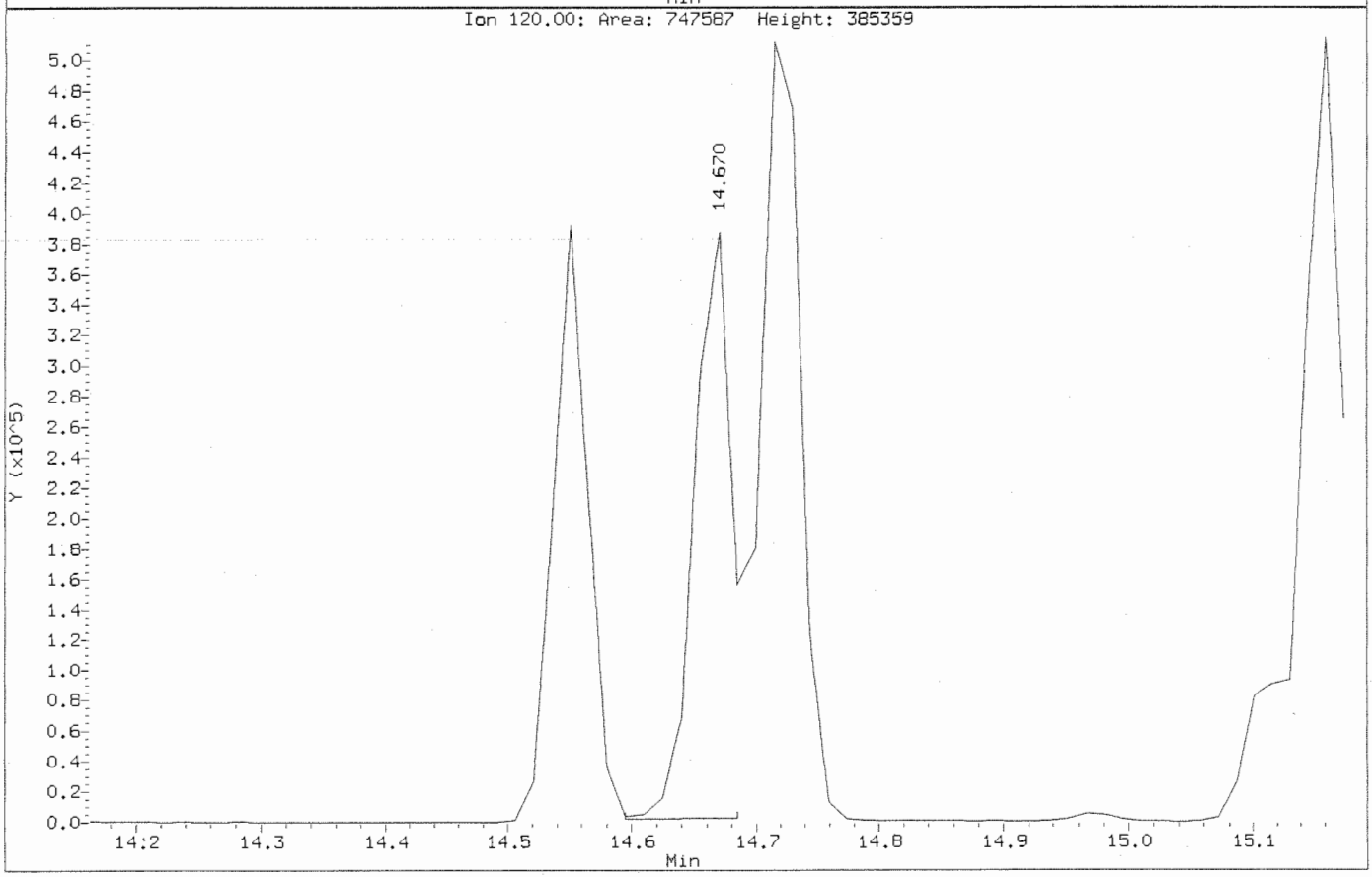
Injection Date: 27-DEC-2006 14:33
Instrument: MSK.i
Client Sample ID: VSTD040

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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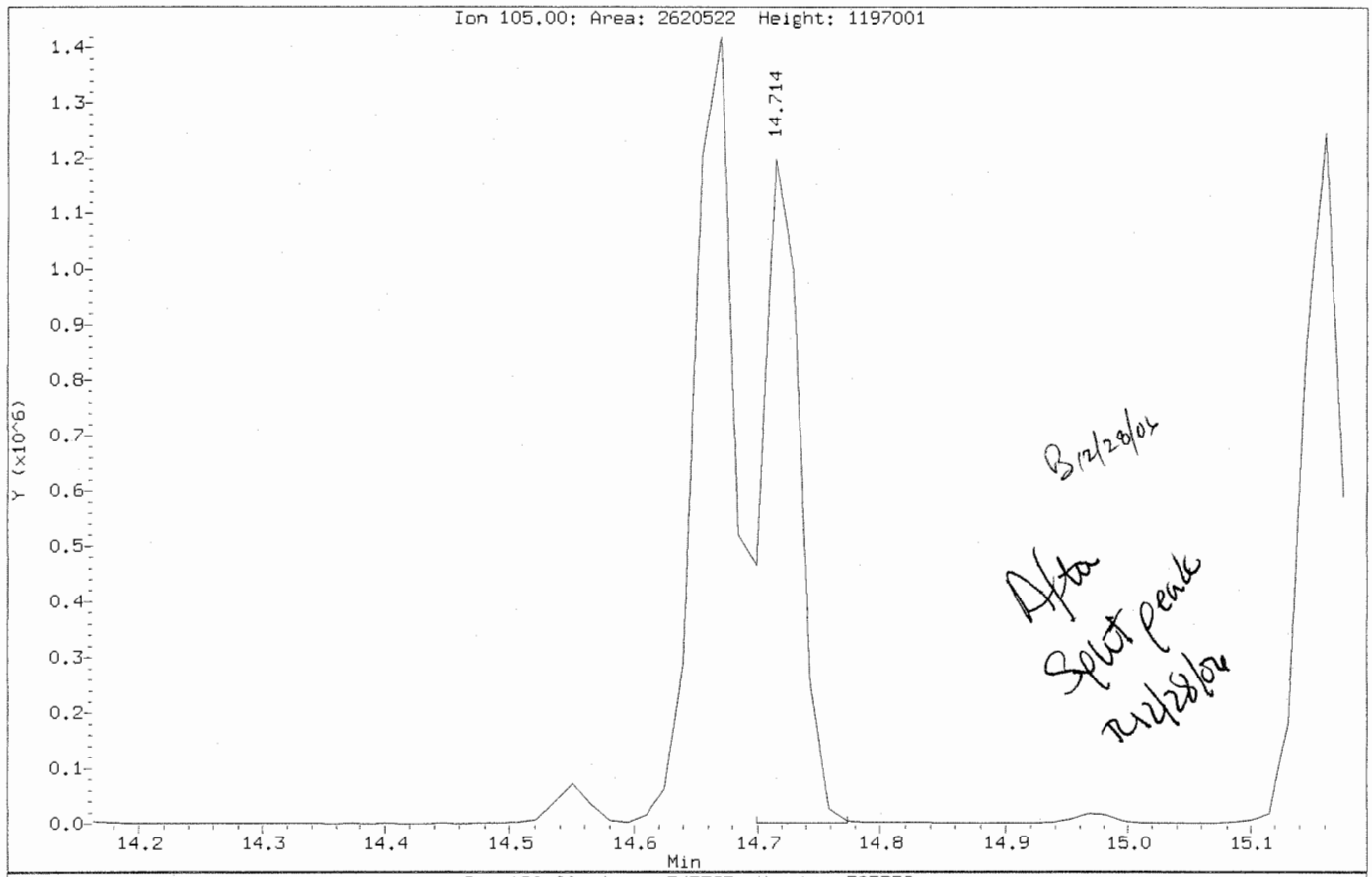
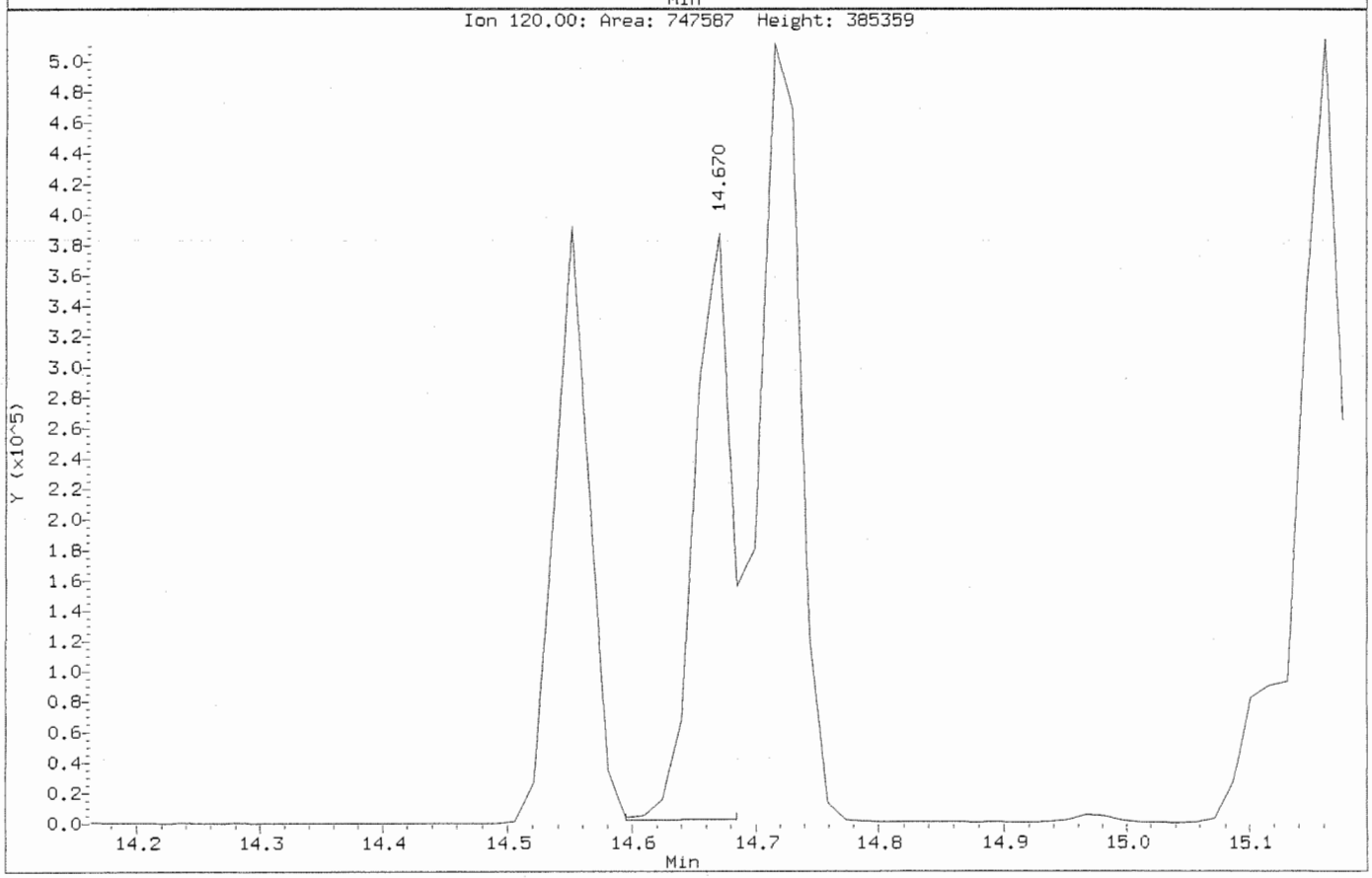
Injection Date: 27-DEC-2006 14:33
Instrument: MSK.i
Client Sample ID: VSTD040

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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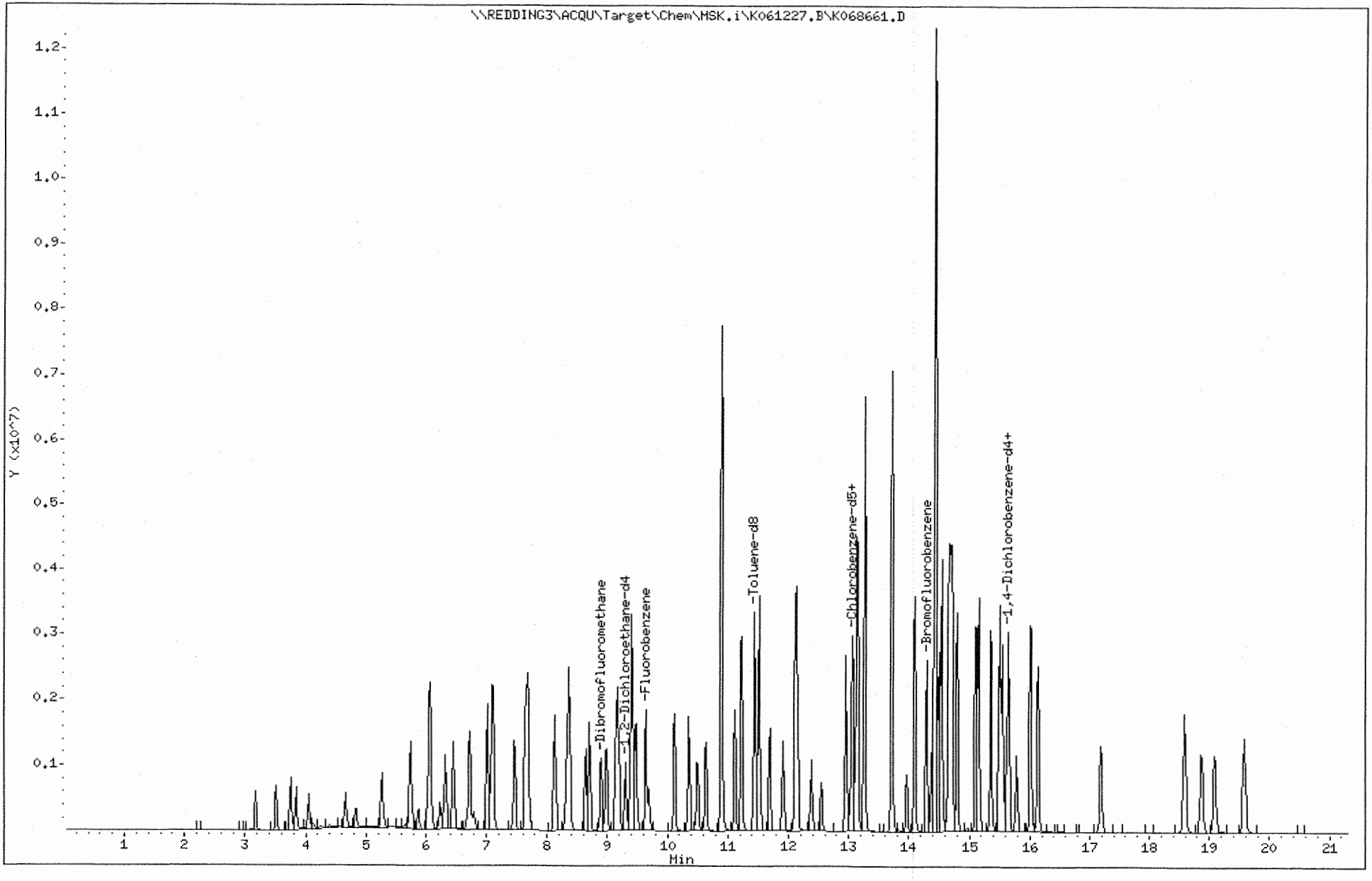
Date : 27-DEC-2006 14:33
Client ID: VSTD040
Sample Info: VSTD040;VSTD040
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i

Operator: X
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068662.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 27-DEC-2006 15:00
Operator : X Inst ID: MSK.i
Smp Info : VSTD100;VSTD100
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\8260w10(0.5).m
Meth Date : 28-Dec-2006 09:15 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	9.687	9.687	(1.000)	683339	10.0000	
* 2	Chlorobenzene-d5	117	13.034	13.034	(1.000)	507580	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.622	15.622	(1.000)	272089	10.0000	
$ 4	Dibromofluoromethane	113	8.884	8.884	(0.917)	1990955	100.000	92.7(A)
$ 5	1,2-Dichloroethane-d4	65	9.300	9.300	(0.960)	2034369	100.000	89.8(A)
$ 6	Toluene-d8	98	11.442	11.442	(0.878)	6331635	100.000	97.6(A)
$ 7	Bromofluorobenzene	174	14.298	14.298	(0.915)	2362093	100.000	100(A)
8	Dichlorodifluoromethane	85	3.514	3.514	(0.363)	1937382	100.000	97.4(AQ)
9	1,2-Dichlorotetrafluoroethane	85	3.752	3.752	(0.387)	1581251	100.000	96.0(AQ)
10	Chloromethane	50	3.842	3.842	(0.397)	1705306	100.000	100(A)
11	Vinyl chloride	62	4.050	4.050	(0.418)	1573838	100.000	97.4(A)
12	Bromomethane	94	4.645	4.645	(0.480)	1260875	100.000	126(A)
13	Chloroethane	64	4.823	4.823	(0.498)	784608	100.000	92.3(A)
14	Trichlorofluoromethane	101	5.269	5.269	(0.544)	2342690	100.000	94.5(A)
15	1,1,2-Trichlorotrifluoroethane	101	6.043	6.043	(0.624)	1697807	100.000	93.4(A)
16	Acrolein	56	5.864	5.864	(0.605)	932039	1000.00	1160(AQ)
17	1,1-Dichloroethene	96	6.073	6.073	(0.627)	1442284	100.000	87.4(A)
18	Acetone	43	6.087	6.087	(0.628)	1968385	500.000	460(A)
19	Bromoethane	108	6.325	6.325	(0.653)	1281942	100.000	94.1(A)
20	Iodomethane	142	6.311	6.311	(0.651)	2231255	100.000	112(A)
21	Carbon disulfide	76	6.444	6.444	(0.665)	6654966	100.000	99.9(A)
22	Methylene chloride	84	6.727	6.727	(0.694)	2047513	100.000	94.8(A)
23	tert-Butanol	59	6.787	6.787	(0.701)	1194525	1000.00	1060(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24	Acrylonitrile	53	7.010	7.010	(0.724)	4750462	1000.00	982(A)
25	n-Hexane	57	8.125	8.125	(0.839)	1450815	100.000	90.4(A)
26	trans-1,2-Dichloroethene	96	7.114	7.114	(0.734)	1779695	100.000	91.9(A)
27	tert-Butylmethylether	73	7.084	7.084	(0.731)	3959814	100.000	95.7(A)
28	1,1-Dichloroethane	63	7.634	7.634	(0.788)	3226797	100.000	92.3(A)
29	Isopropylether	45	7.679	7.679	(0.793)	6763378	100.000	94.6(A)
30	Vinyl acetate	43	7.649	7.649	(0.790)	6471403	100.000	95.9(A)
31	tert-Butylethylether	59	8.125	8.125	(0.839)	5231683	100.000	99.9(A)
32	2,2-Dichloropropane	77	8.363	8.363	(0.863)	2558689	100.000	86.9(AQ)
33	cis-1,2-Dichloroethene	96	8.348	8.348	(0.862)	1970208	100.000	91.8(A)
M 34	1,2-Dichloroethene (total)	96				3749903	200.000	(a)
35	2-Butanone	43	8.319	8.319	(0.859)	3275552	500.000	553(A)
36	Bromochloromethane	128	8.646	8.646	(0.893)	961572	100.000	94.0(A)
37	Chloroform	83	8.705	8.705	(0.899)	3642567	100.000	91.5(A)
38	1,1,1-Trichloroethane	97	8.973	8.973	(0.926)	2713814	100.000	95.0(AQ)
39	Isobutyl alcohol	43	9.122	9.122	(0.942)	1435694	2500.00	3090(AQ)
40	1,1-Dichloropropene	75	9.166	9.166	(0.946)	2498191	100.000	97.6(A)
41	Carbon tetrachloride	119	9.196	9.196	(0.949)	2117110	100.000	96.8(A)
42	tert-Amylmethylether	73	9.464	9.464	(0.977)	4341498	100.000	102(A)
43	Benzene	78	9.404	9.404	(0.971)	6829780	100.000	96.4(A)
44	1,2-Dichloroethane	62	9.390	9.390	(0.969)	2473662	100.000	93.6(A)
45	Trichloroethene	95	10.118	10.118	(1.045)	1959852	100.000	99.1(A)
46	1,2-Dichloropropane	63	10.356	10.356	(1.069)	1860978	100.000	100(A)
47	1,4-Dioxane	88	10.475	10.475	(1.081)	367327	2500.00	2860(AQ)
48	Dibromomethane	93	10.490	10.490	(1.083)	1295145	100.000	96.6(A)
49	Bromodichloromethane	83	10.639	10.639	(1.098)	2722139	100.000	99.7(A)
50	2-Chloroethylvinyl ether	63	10.892	10.892	(1.124)	9349885	1000.00	998(A)
51	cis-1,3-Dichloropropene	75	11.115	11.115	(1.147)	3133487	100.000	107(A)
52	4-Methyl-2-pentanone	43	11.219	11.219	(1.158)	8023891	500.000	571(A)
53	Toluene	92	11.516	11.516	(0.884)	4630345	100.000	99.9(A)
54	trans-1,3-Dichloropropene	75	11.695	11.695	(0.897)	2850187	100.000	105(A)
55	1,1,2-Trichloroethane	83	11.903	11.903	(0.913)	1355607	100.000	97.5(A)
56	Tetrachloroethene	166	12.141	12.141	(0.932)	2099353	100.000	92.4(A)
57	1,3-Dichloropropane	76	12.111	12.111	(0.929)	2550339	100.000	100(A)
58	2-Hexanone	43	12.111	12.111	(0.929)	5476385	500.000	551(A)
59	Dibromochloromethane	129	12.379	12.379	(0.950)	1973521	100.000	110(A)
60	1,2-Dibromoethane	107	12.543	12.543	(0.962)	1728227	100.000	106(A)
61	1-Chlorohexane	91	12.959	12.959	(0.994)	2798118	100.000	101(A)
62	Chlorobenzene	112	13.063	13.063	(1.002)	4966412	100.000	97.7(AQ)
63	1,1,1,2-Tetrachloroethane	131	13.138	13.138	(1.008)	1795850	100.000	103(A)
64	Ethylbenzene	91	13.153	13.153	(1.009)	8873144	100.000	98.4(A)
65	m-,p-Xylene	106	13.272	13.272	(1.018)	5849271	200.000	193(A)
66	o-Xylene	106	13.718	13.718	(1.052)	2896333	100.000	98.4(A)
M 67	Xylene (total)	106				8745604	300.000	(a)
68	Styrene	104	13.718	13.718	(1.052)	5295591	100.000	104(A)
69	Bromoform	173	13.971	13.971	(1.072)	1444251	100.000	120(A)
70	Isopropylbenzene	105	14.105	14.105	(1.082)	7989244	100.000	103(A)
71	1,1,2,2-Tetrachloroethane	83	14.387	14.387	(0.921)	2128089	100.000	108(A)
72	Bromobenzene	156	14.506	14.506	(0.929)	2482750	100.000	99.7(A)
73	1,2,3-Trichloropropane	110	14.462	14.462	(0.926)	446716	100.000	100(AQ)
74	n-Propylbenzene	120	14.551	14.551	(0.931)	1933956	100.000	102(A)
75	trans-1,4-Dichloro-2-butene	53	14.432	14.432	(0.924)	4506760	100.000	104(A)
76	2-Chlorotoluene	126	14.700	14.700	(0.941)	1840722	100.000	98.3(A)
77	4-Ethyltoluene	105	14.670	14.670	(0.939)	9121460	100.000	109(AM)

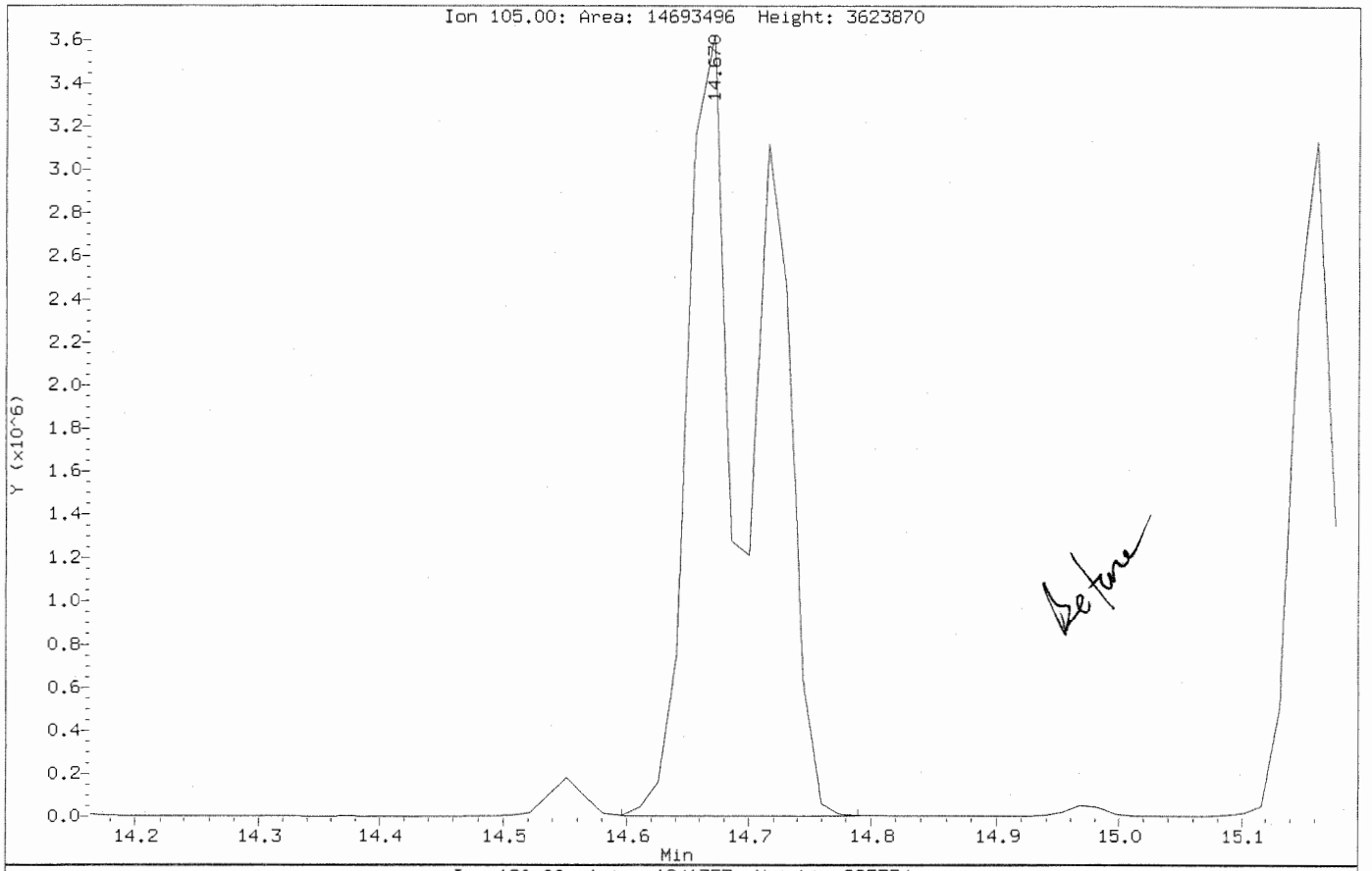
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3,5-Trimethylbenzene	105	14.714	14.714	(0.942)	6641434	100.000	100(AM)
79 4-Chlorotoluene	126	14.804	14.804	(0.948)	1970191	100.000	101(A)
80 tert-Butylbenzene	119	15.116	15.116	(0.968)	6040273	100.000	106(A)
81 1,2,4-Trimethylbenzene	105	15.161	15.161	(0.970)	6826567	100.000	105(A)
82 sec-Butylbenzene	105	15.354	15.354	(0.983)	8009960	100.000	105(A)
83 1,3-Dichlorobenzene	146	15.547	15.547	(0.995)	4191730	100.000	98.7(A)
84 p-Isopropyltoluene	119	15.503	15.503	(0.992)	6636703	100.000	106(A)
85 1,4-Dichlorobenzene	146	15.651	15.651	(1.002)	4238064	100.000	98.9(A)
86 BenzylChloride	126	14.804	14.804	(0.948)	1970191	100.000	101(A)
87 n-Butylbenzene	91	16.008	16.008	(1.025)	7321752	100.000	106(A)
88 1,2-Dichlorobenzene	146	16.142	16.142	(1.033)	3862963	100.000	98.8(A)
89 1,2-Dibromo-3-chloropropane	75	17.183	17.183	(1.100)	1334960	400.000	399(AQ)
90 1,2,4-Trichlorobenzene	180	18.596	18.596	(1.190)	2846300	100.000	104(A)
91 Hexachlorobutadiene	225	18.879	18.879	(1.209)	1331868	100.000	99.3(A)
92 Naphthalene	128	19.087	19.087	(1.222)	4608195	100.000	112(A)
93 1,2,3-Trichlorobenzene	180	19.593	19.593	(1.254)	2526491	100.000	106(A)

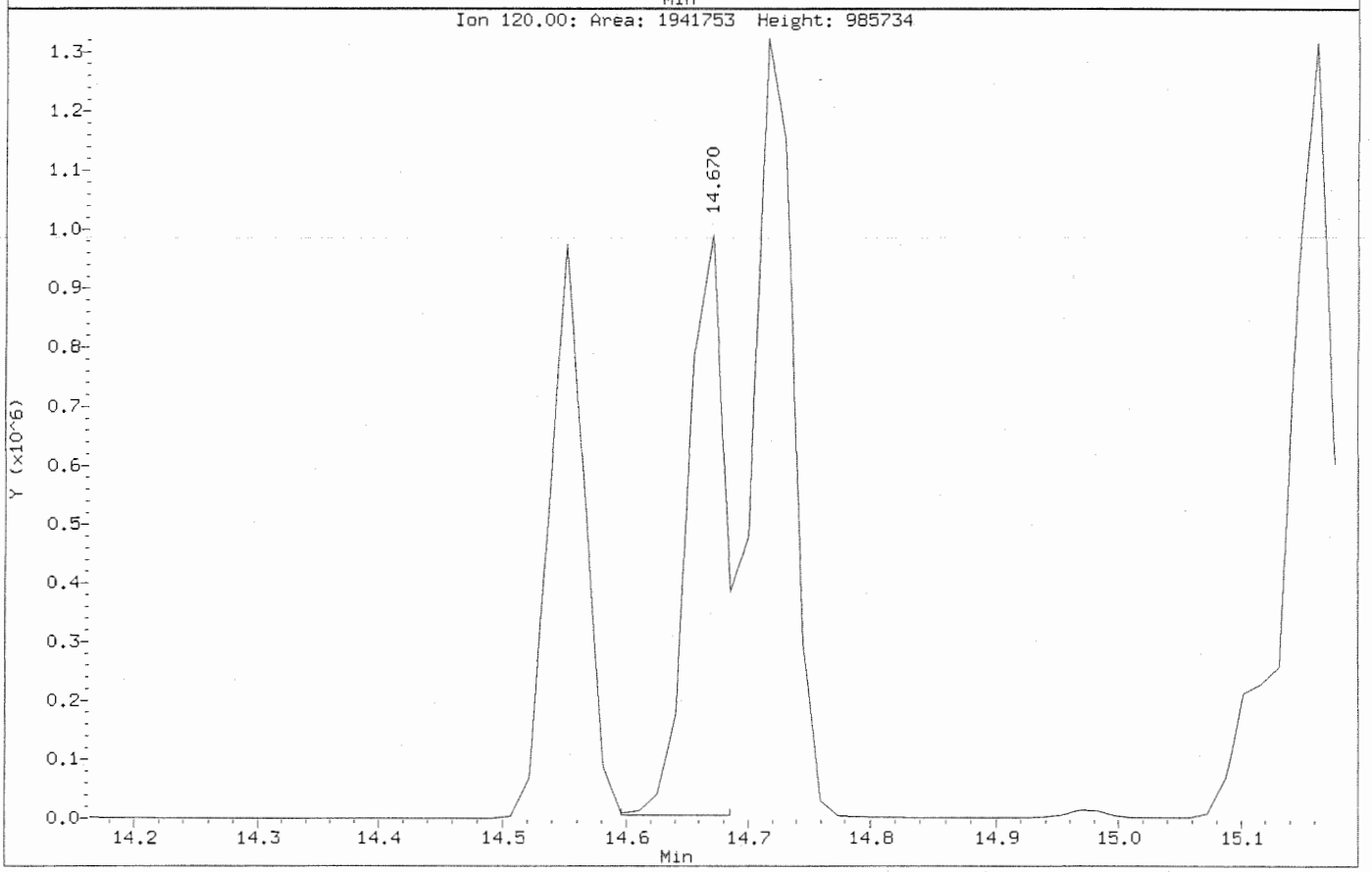
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068662.D
Injection Date: 27-DEC-2006 15:00
Instrument: MSK.i
Client Sample ID: VSTD100

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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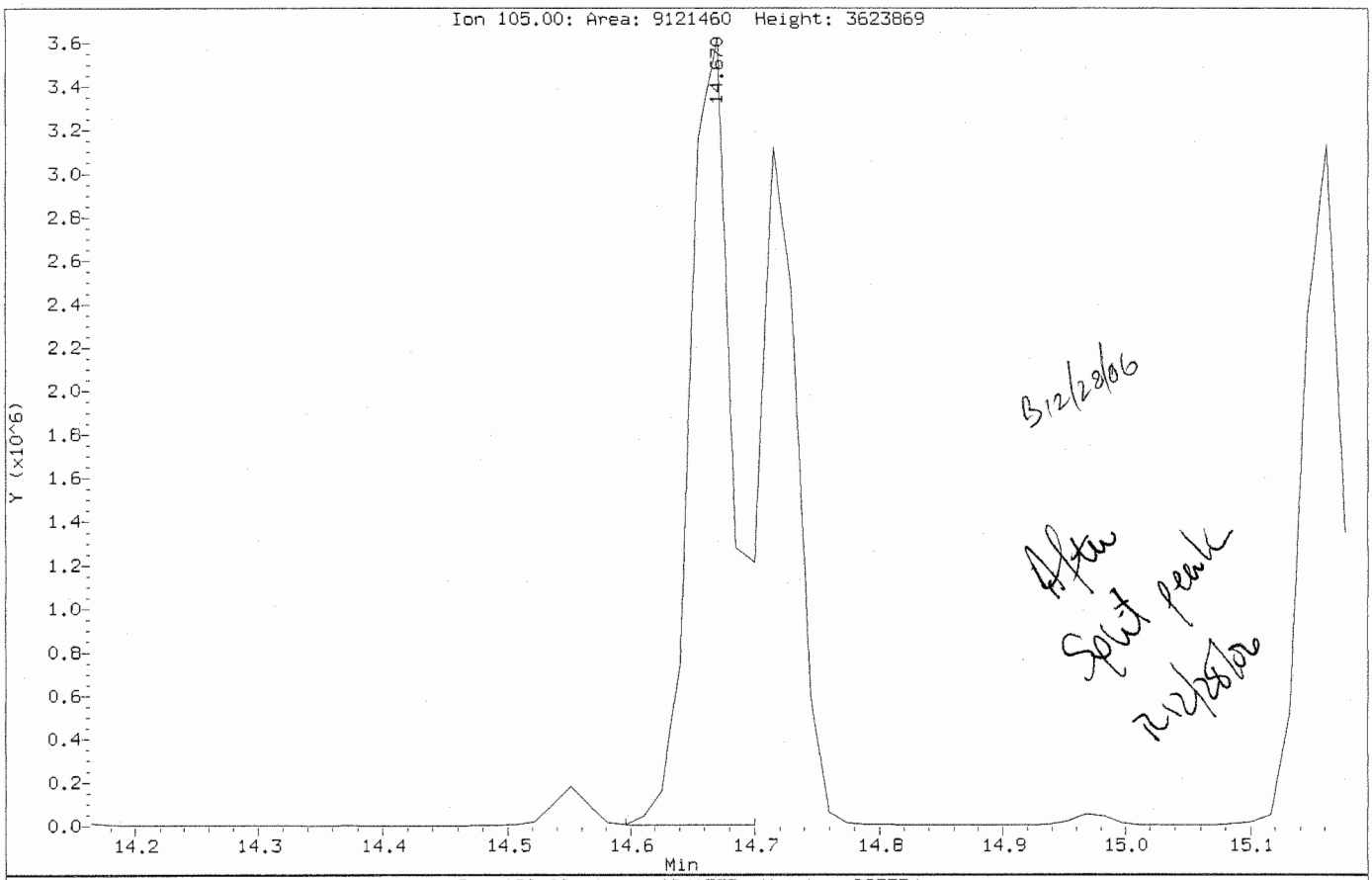
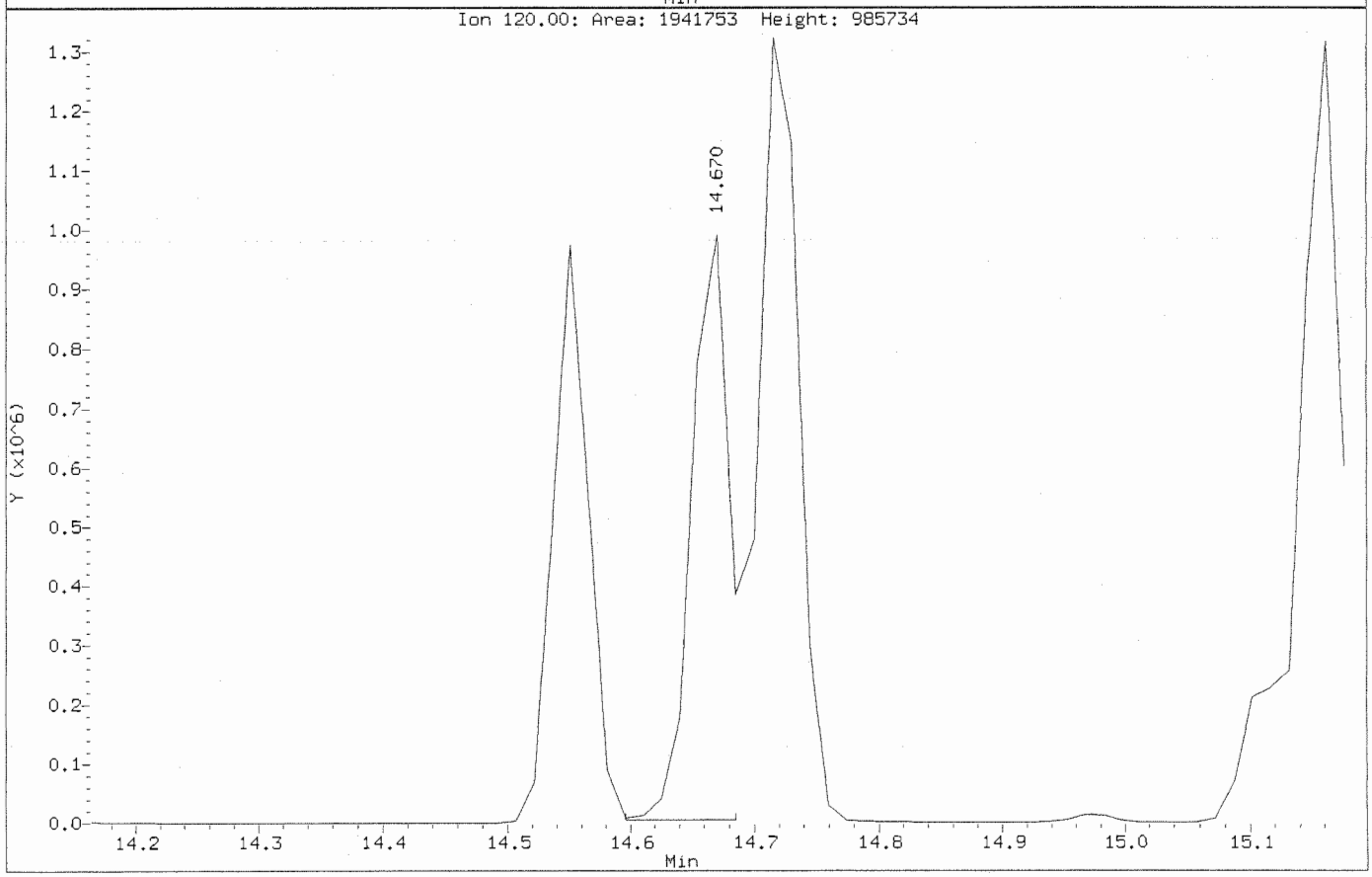
Injection Date: 27-DEC-2006 15:00
Instrument: MSK.i
Client Sample ID: VSTD100

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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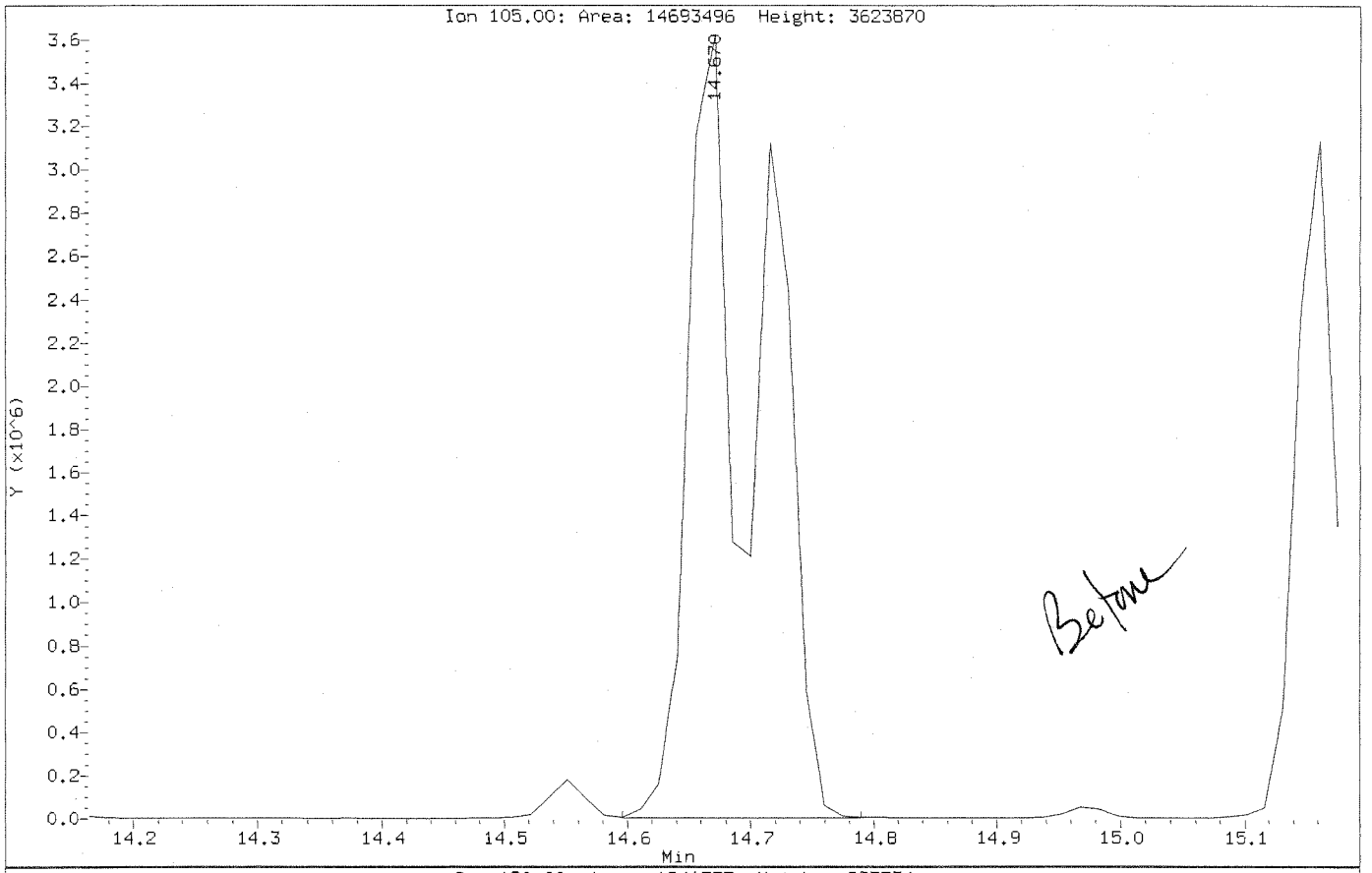
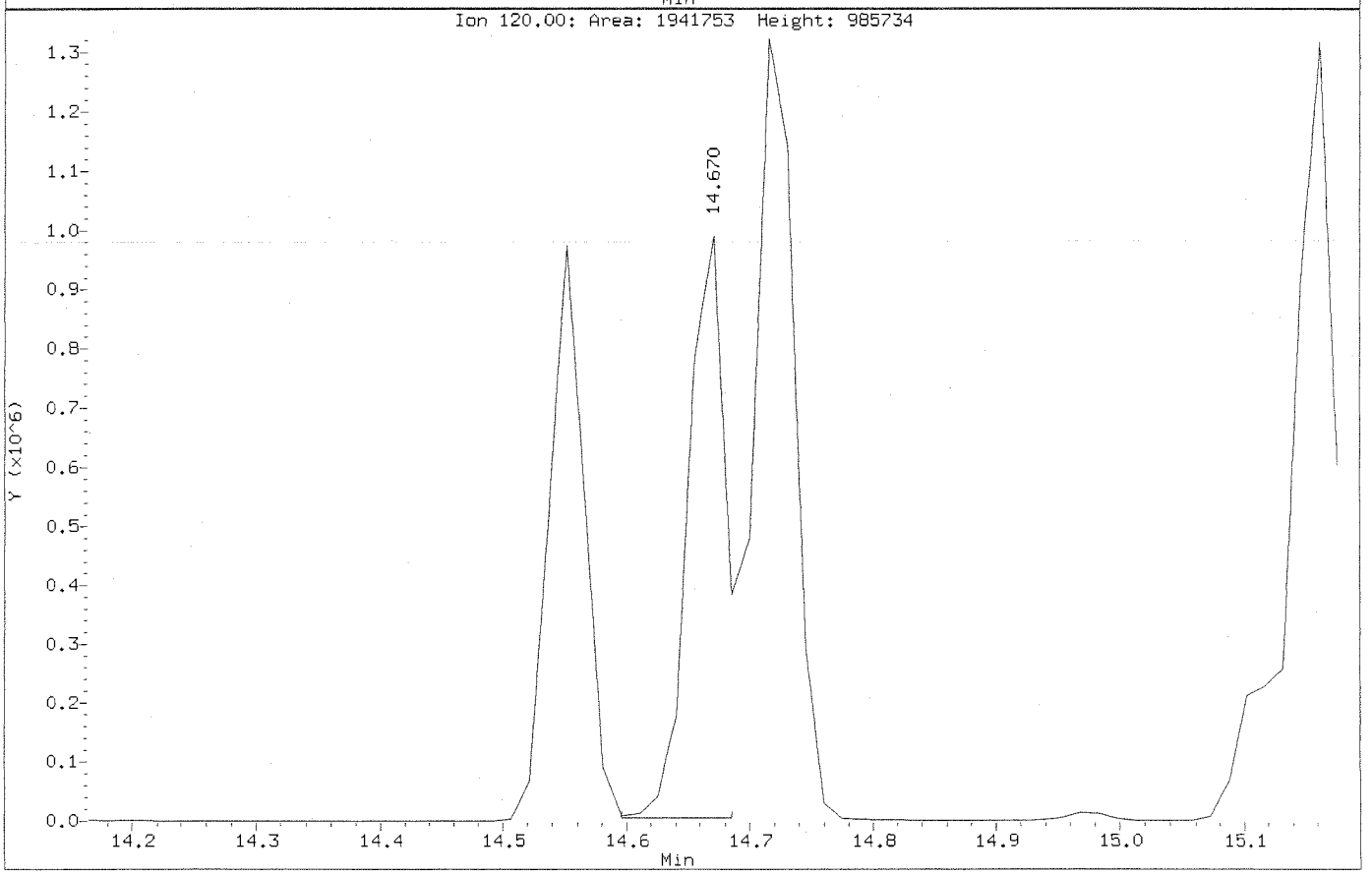
Injection Date: 27-DEC-2006 15:00
Instrument: MSK.i
Client Sample ID: VSTD100

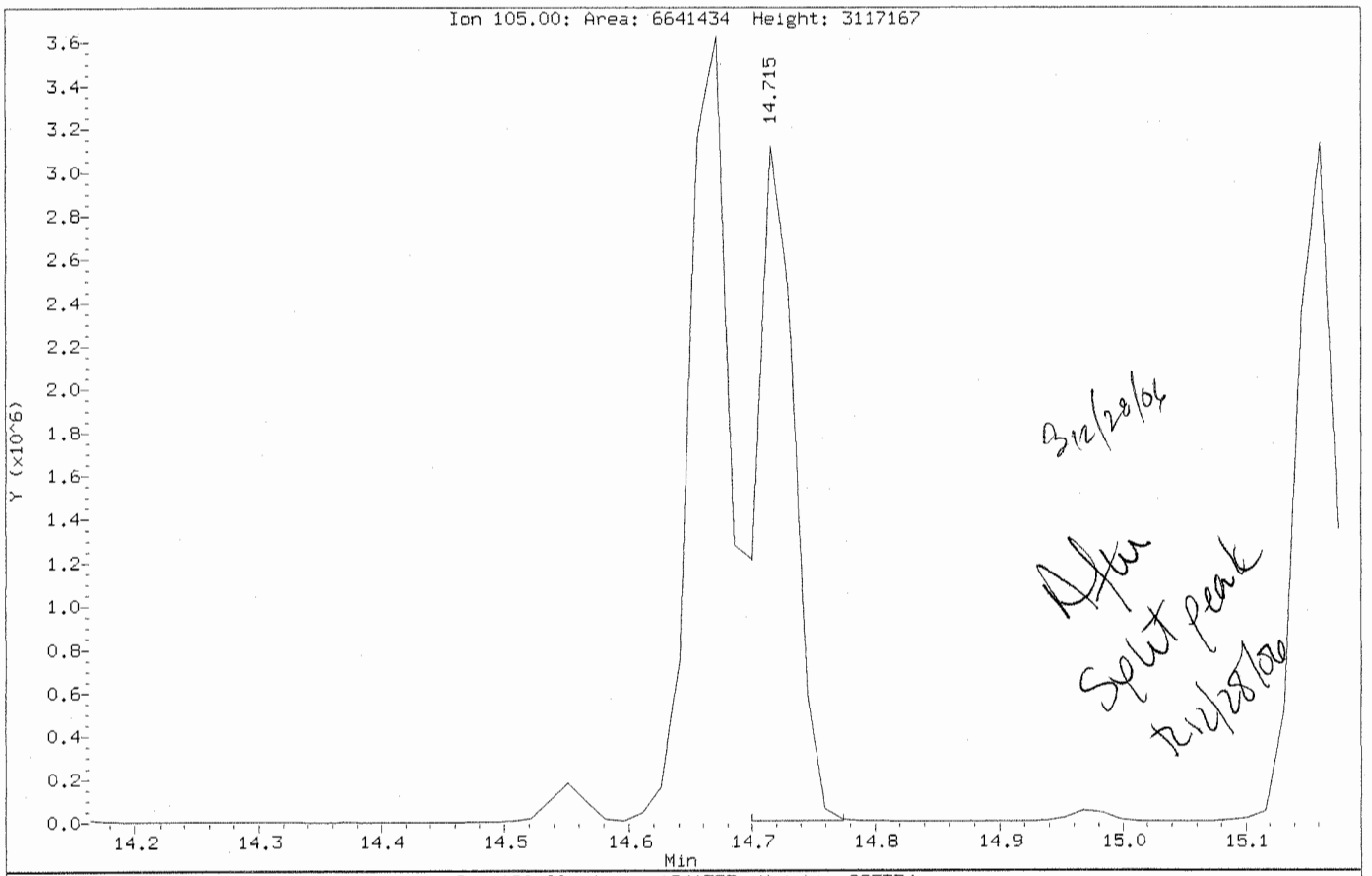
Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8

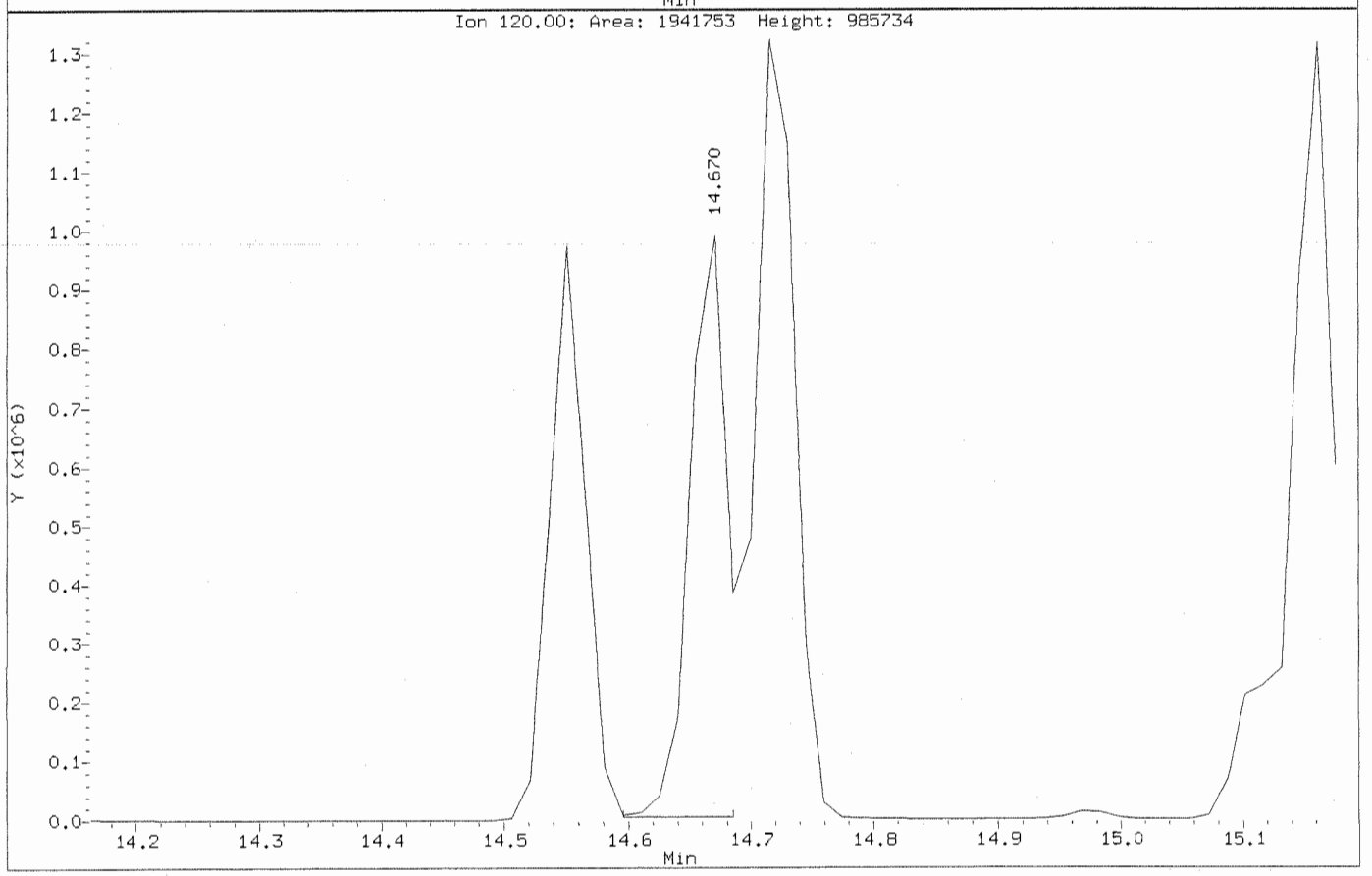




Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068662.D
Injection Date: 27-DEC-2006 15:00
Instrument: MSK.i
Client Sample ID: VSTD100

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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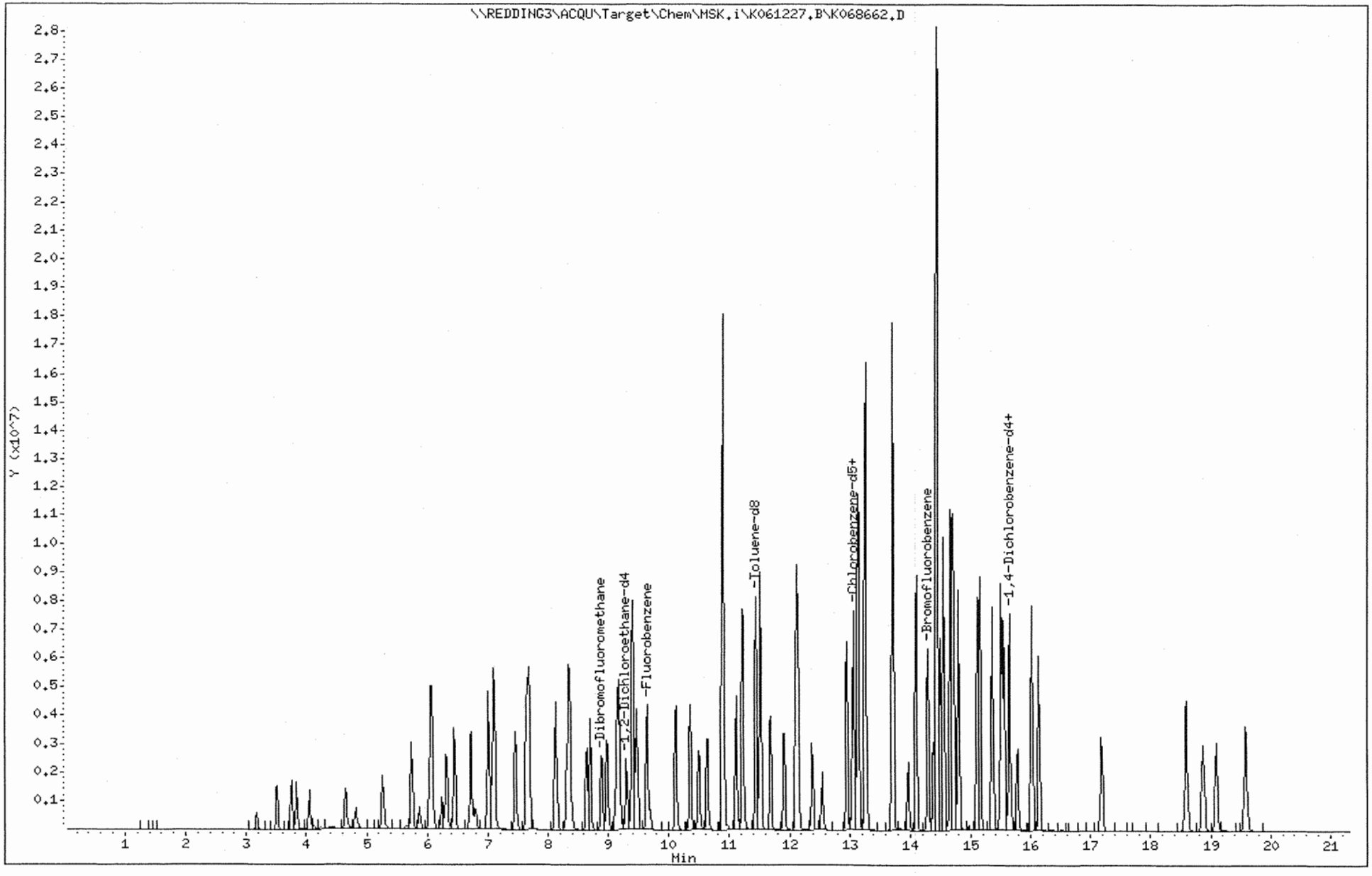
Date : 27-DEC-2006 15:00
Client ID: VSTD100
Sample Info: VSTD100;VSTD100
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
Date Analyzed: 12/27/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK
File ID: K068663

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Dichlorodifluoromethane (CFC 12)	10.0	9.649	0.290	0.280	-3.5	NA	+/- 25.0	AverageRF	
Chloromethane	10.0	10.46	0.249	0.261	4.6	NA	+/- 25.0	AverageRF	
Vinyl Chloride	10.0	10.22	0.236	0.241	2.2	NA	+/- 25.0	AverageRF	
Bromomethane	10.0	11.15	0.152	0.169	11.4	NA	+/- 25.0	AverageRF	
Chloroethane	10.0	9.951	0.123	0.122	-0.5	NA	+/- 25.0	AverageRF	
Trichlorofluoromethane (CFC 11)	10.0	9.922	0.360	0.357	-0.8	NA	+/- 25.0	AverageRF	
1,1,2-Trichlorotrifluoroethane	10.0	9.796	0.263	0.258	-2.0	NA	+/- 25.0	AverageRF	
1,1-Dichloroethene (1,1-DCE)	10.0	10.28	0.237	0.244	2.8	NA	+/- 25.0	AverageRF	
Acetone	50.0	46.55	0.062	0.058	-6.9	NA	+/- 25.0	AverageRF	
Carbon Disulfide	10.0	9.630	0.975	0.939	-3.7	NA	+/- 25.0	AverageRF	
Dichloromethane (Methylene Chloride)	10.0	9.988	0.314	0.313	-0.1	NA	+/- 25.0	AverageRF	
trans-1,2-Dichloroethene	10.0	9.493	0.280	0.266	-5.1	NA	+/- 25.0	AverageRF	
Methyl tert-Butyl Ether	10.0	9.411	0.602	0.566	-5.9	NA	+/- 25.0	AverageRF	
1,1-Dichloroethane (1,1-DCA)	10.0	9.982	0.506	0.505	-0.2	NA	+/- 25.0	AverageRF	
Vinyl Acetate	10.0	9.589	0.982	0.941	-4.1	NA	+/- 25.0	AverageRF	
2,2-Dichloropropane	10.0	8.820	0.423	0.373	-11.8	NA	+/- 25.0	AverageRF	
cis-1,2-Dichloroethene	10.0	10.17	0.310	0.316	1.7	NA	+/- 25.0	AverageRF	
2-Butanone (MEK)	50.0	48.77	0.088	0.086	-2.4	NA	+/- 25.0	AverageRF	
Bromochloromethane	10.0	9.566	0.148	0.142	-4.3	NA	+/- 25.0	AverageRF	
Chloroform	10.0	9.394	0.575	0.540	-6.0	NA	+/- 25.0	AverageRF	
1,1,1-Trichloroethane (TCA)	10.0	9.870	0.415	0.410	-1.3	NA	+/- 25.0	AverageRF	
1,1-Dichloropropene	10.0	10.17	0.373	0.380	1.7	NA	+/- 25.0	AverageRF	
Carbon Tetrachloride	10.0	9.619	0.319	0.307	-3.8	NA	+/- 25.0	AverageRF	
Benzene	10.0	10.07	1.031	1.038	0.7	NA	+/- 25.0	AverageRF	
1,2-Dichloroethane (EDC)	10.0	9.658	0.383	0.370	-3.4	NA	+/- 25.0	AverageRF	
Trichloroethene (TCE)	10.0	9.838	0.323	0.290	NA	-1.6	+/- 25.0	Linear	
1,2-Dichloropropane	10.0	10.24	0.272	0.278	2.4	NA	+/- 25.0	AverageRF	
Dibromomethane	10.0	9.626	0.195	0.188	-3.7	NA	+/- 25.0	AverageRF	
Bromodichloromethane	10.0	9.682	0.399	0.387	-3.2	NA	+/- 25.0	AverageRF	
cis-1,3-Dichloropropene	10.0	9.795	0.432	0.423	-2.0	NA	+/- 25.0	AverageRF	
4-Methyl-2-pentanone (MIBK)	50.0	46.32	0.210	0.194	-7.4	NA	+/- 25.0	AverageRF	
Toluene	10.0	10.34	0.913	0.944	3.4	NA	+/- 25.0	AverageRF	
trans-1,3-Dichloropropene	10.0	9.891	0.537	0.531	-1.1	NA	+/- 25.0	AverageRF	
1,1,2-Trichloroethane	10.0	9.953	0.273	0.272	-0.5	NA	+/- 25.0	AverageRF	
Tetrachloroethene (PCE)	10.0	10.08	0.443	0.446	0.8	NA	+/- 25.0	AverageRF	
1,3-Dichloropropane	10.0	10.18	0.502	0.511	1.8	NA	+/- 25.0	AverageRF	
2-Hexanone	50.0	49.25	0.199	0.196	-1.5	NA	+/- 25.0	AverageRF	
Dibromochloromethane	10.0	9.958	0.360	0.358	-0.4	NA	+/- 25.0	AverageRF	
1,2-Dibromoethane (EDB)	10.0	10.04	0.323	0.325	0.4	NA	+/- 25.0	AverageRF	

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
Date Analyzed: 12/27/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK
File ID: K068663

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chlorobenzene	10.0	10.16	0.998	1.015	1.6	NA	+/- 25.0	AverageRF	
1,1,1,2-Tetrachloroethane	10.0	9.890	0.344	0.340	-1.1	NA	+/- 25.0	AverageRF	
Ethylbenzene	10.0	10.34	1.773	1.834	3.4	NA	+/- 25.0	AverageRF	
Xylenes, Total	30.0	31.58	0.588	0.619	5.2	NA	+/- 25.0	AverageRF	
Styrene	10.0	10.47	1.005	1.053	4.7	NA	+/- 25.0	AverageRF	
Bromoform	10.0	9.598	0.244	0.234	-4.0	NA	+/- 25.0	AverageRF	
Isopropylbenzene	10.0	10.62	1.530	1.624	6.2	NA	+/- 25.0	AverageRF	
1,1,2,2-Tetrachloroethane	10.0	10.23	0.735	0.752	2.3	NA	+/- 25.0	AverageRF	
Bromobenzene	10.0	9.981	0.915	0.913	-0.2	NA	+/- 25.0	AverageRF	
1,2,3-Trichloropropane	10.0	9.852	0.164	0.161	-1.5	NA	+/- 25.0	AverageRF	
n-Propylbenzene	10.0	10.24	0.701	0.718	2.4	NA	+/- 25.0	AverageRF	
2-Chlorotoluene	10.0	10.24	0.687	0.703	2.4	NA	+/- 25.0	AverageRF	
1,3,5-Trimethylbenzene	10.0	10.24	2.435	2.494	2.4	NA	+/- 25.0	AverageRF	
4-Chlorotoluene	10.0	10.02	0.720	0.722	0.2	NA	+/- 25.0	AverageRF	
tert-Butylbenzene	10.0	10.52	2.110	2.218	5.2	NA	+/- 25.0	AverageRF	
1,2,4-Trimethylbenzene	10.0	10.48	2.413	2.529	4.8	NA	+/- 25.0	AverageRF	
sec-Butylbenzene	10.0	11.05	2.824	3.120	10.4	NA	+/- 25.0	AverageRF	
1,3-Dichlorobenzene	10.0	10.13	1.558	1.579	1.3	NA	+/- 25.0	AverageRF	
4-Isopropyltoluene	10.0	10.60	2.321	2.461	6.0	NA	+/- 25.0	AverageRF	
1,4-Dichlorobenzene	10.0	10.30	1.573	1.620	3.0	NA	+/- 25.0	AverageRF	
n-Butylbenzene	10.0	10.25	2.556	2.619	2.5	NA	+/- 25.0	AverageRF	
1,2-Dichlorobenzene	10.0	10.31	1.435	1.479	3.0	NA	+/- 25.0	AverageRF	
1,2-Dibromo-3-chloropropane (DBCP)	40.0	36.55	0.123	0.112	-8.6	NA	+/- 25.0	AverageRF	
1,2,4-Trichlorobenzene	10.0	10.65	1.013	1.078	6.5	NA	+/- 25.0	AverageRF	
Hexachlorobutadiene	10.0	10.12	0.492	0.498	1.2	NA	+/- 25.0	AverageRF	
Naphthalene	10.0	10.86	1.534	1.666	8.6	NA	+/- 25.0	AverageRF	
1,2,3-Trichlorobenzene	10.0	10.72	0.887	0.951	7.2	NA	+/- 25.0	AverageRF	
Dibromofluoromethane	N/A	N/A	0.314	0.305	0.0	NA	+/- 25.0	AverageRF	
1,2-Dichloroethane-d4	N/A	N/A	0.332	0.300	0.0	NA	+/- 25.0	AverageRF	
Toluene-d8	N/A	N/A	1.277	1.284	0.0	NA	+/- 25.0	AverageRF	
4-Bromofluorobenzene	N/A	N/A	0.866	0.863	0.0	NA	+/- 25.0	AverageRF	

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068663.D
Lab Smp Id: QCALTSTD Client Smp ID: QCALTSTD
Inj Date : 27-DEC-2006 15:26
Operator : X Inst ID: MSK.i
Smp Info : QCALTSTD;QCALTSTD
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\8260w10(0.5).m
Meth Date : 28-Dec-2006 09:18 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	9.694	9.694	(1.000)	732495	10.0000	
*	2 Chlorobenzene-d5	117	13.041	13.041	(1.000)	498465	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.614	15.614	(1.000)	272492	10.0000	
$	4 Dibromofluoromethane	113	8.891	8.891	(0.917)	223189	10.0000	9.69
$	5 1,2-Dichloroethane-d4	65	9.308	9.308	(0.960)	219563	10.0000	9.04
$	6 Toluene-d8	98	11.435	11.435	(0.877)	640080	10.0000	10.0
$	7 Bromofluorobenzene	174	14.305	14.305	(0.916)	235134	10.0000	9.96
	8 Dichlorodifluoromethane	85	3.507	3.507	(0.362)	204907	10.0000	9.65(Q)
	9 1,2-Dichlorotetrafluoroethane	85	3.745	3.745	(0.386)	210346	10.0000	12.0(Q)
	10 Chloromethane	50	3.834	3.834	(0.396)	191048	10.0000	10.4
	11 Vinyl chloride	62	4.057	4.057	(0.419)	176301	10.0000	10.2
	12 Bromomethane	94	4.667	4.667	(0.481)	123842	10.0000	11.1
	13 Chloroethane	64	4.831	4.831	(0.498)	89524	10.0000	9.95
	14 Trichlorofluoromethane	101	5.262	5.262	(0.543)	261613	10.0000	9.92
	15 1,1,2-Trichlorotrifluoroethane	101	6.050	6.050	(0.624)	189048	10.0000	9.80
	16 Acrolein	56	5.872	5.872	(0.606)	218021	100.000	248(Q)
	17 1,1-Dichloroethene	96	6.065	6.065	(0.626)	178542	10.0000	10.3
	18 Acetone	43	6.080	6.080	(0.627)	210711	50.0000	46.5
	19 Bromoethane	108	6.318	6.318	(0.652)	140402	10.0000	9.69
	20 Iodomethane	142	6.318	6.318	(0.652)	200791	10.0000	9.27
	21 Carbon disulfide	76	6.452	6.452	(0.666)	687710	10.0000	9.63
	22 Methylene chloride	84	6.720	6.720	(0.693)	229473	10.0000	9.99

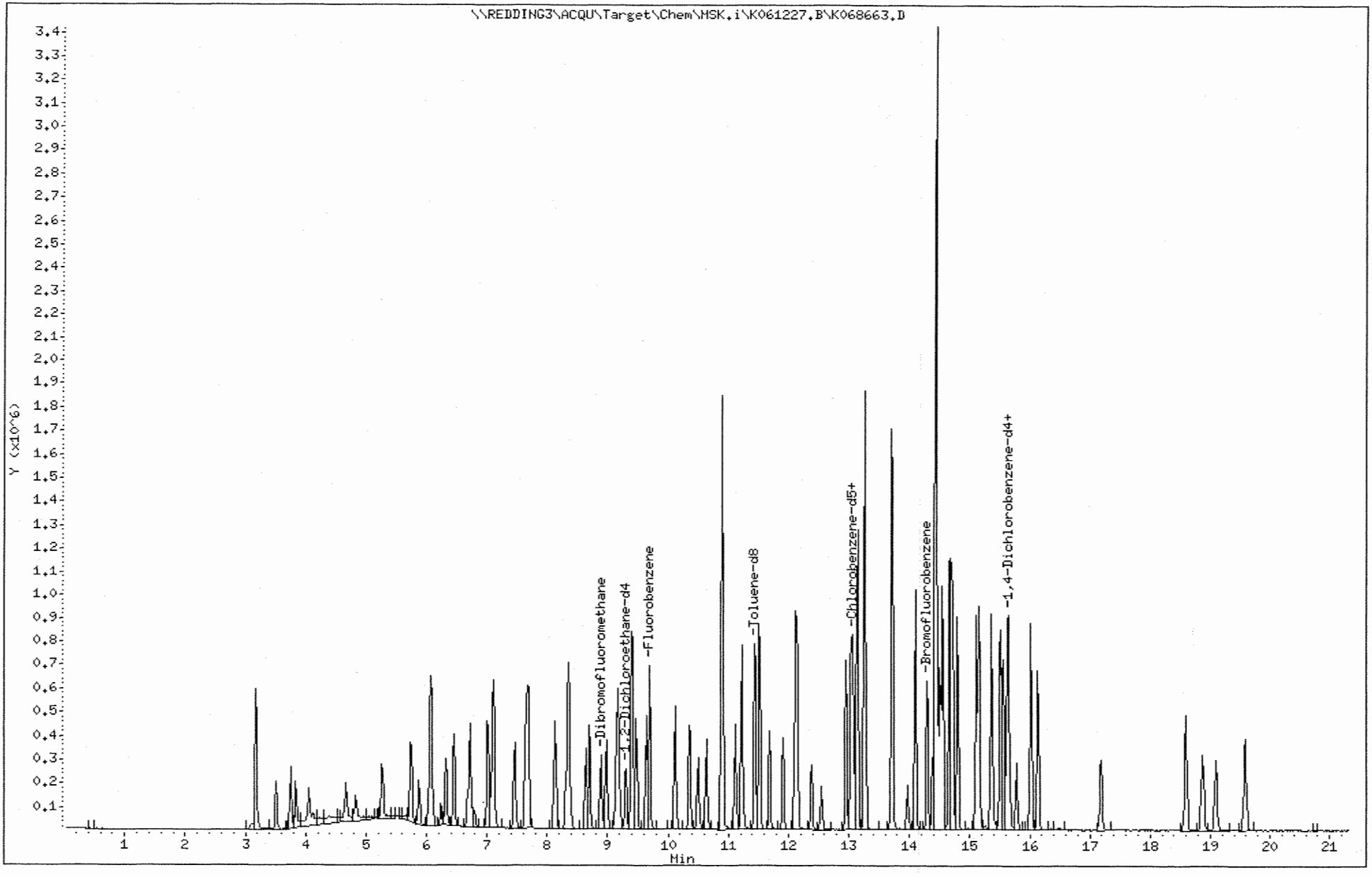
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
23	tert-Butanol	59	6.794	6.794	(0.701)	110505	100.000	90.9
24	Acrylonitrile	53	7.002	7.002	(0.722)	501971	100.000	97.0
25	n-Hexane	57	8.133	8.133	(0.839)	154848	10.0000	9.13
26	trans-1,2-Dichloroethene	96	7.106	7.106	(0.733)	194776	10.0000	9.49
27	tert-Butylmethylether	73	7.092	7.092	(0.732)	414931	10.0000	9.41
28	1,1-Dichloroethane	63	7.642	7.642	(0.788)	369866	10.0000	9.98
29	Isopropylether	45	7.686	7.686	(0.793)	720393	10.0000	9.47
30	Vinyl acetate	43	7.642	7.642	(0.788)	689496	10.0000	9.59
31	tert-Butylethylether	59	8.133	8.133	(0.839)	537816	10.0000	9.58
32	2,2-Dichloropropane	77	8.371	8.371	(0.863)	273126	10.0000	8.82(Q)
33	cis-1,2-Dichloroethene	96	8.356	8.356	(0.862)	231190	10.0000	10.2
M 34	1,2-Dichloroethene (total)	96				425966	20.0000	19.7
35	2-Butanone	43	8.311	8.311	(0.857)	314554	50.0000	48.8
36	Bromochloromethane	128	8.638	8.638	(0.891)	103986	10.0000	9.56
37	Chloroform	83	8.698	8.698	(0.897)	395910	10.0000	9.39
38	1,1,1-Trichloroethane	97	8.981	8.981	(0.926)	300065	10.0000	9.87(Q)
39	Isobutyl alcohol	43	9.129	9.129	(0.942)	117731	250.000	228(Q)
40	1,1-Dichloropropene	75	9.159	9.159	(0.945)	278102	10.0000	10.2
41	Carbon tetrachloride	119	9.189	9.189	(0.948)	224523	10.0000	9.62
42	tert-Amylmethylether	73	9.471	9.471	(0.977)	448833	10.0000	9.77
43	Benzene	78	9.412	9.412	(0.971)	760506	10.0000	10.1
44	1,2-Dichloroethane	62	9.382	9.382	(0.968)	271133	10.0000	9.66
45	Trichloroethene	95	10.111	10.111	(1.043)	212268	10.0000	9.84
46	1,2-Dichloropropane	63	10.349	10.349	(1.068)	203740	10.0000	10.2
47	1,4-Dioxane	88	10.468	10.468	(1.080)	33288	250.000	237(Q)
48	Dibromomethane	93	10.498	10.498	(1.083)	137722	10.0000	9.62
49	Bromodichloromethane	83	10.632	10.632	(1.097)	283117	10.0000	9.68
50	2-Chloroethylvinyl ether	63	10.899	10.899	(1.124)	1009793	100.000	101
51	cis-1,3-Dichloropropene	75	11.107	11.107	(1.146)	310126	10.0000	9.80
52	4-Methyl-2-pentanone	43	11.226	11.226	(1.158)	712238	50.0000	46.3
53	Toluene	92	11.509	11.509	(0.883)	470533	10.0000	10.3
54	trans-1,3-Dichloropropene	75	11.688	11.688	(0.896)	264564	10.0000	9.89
55	1,1,2-Trichloroethane	83	11.911	11.911	(0.913)	135419	10.0000	9.95
56	Tetrachloroethene	166	12.149	12.149	(0.932)	222340	10.0000	10.1
57	1,3-Dichloropropane	76	12.104	12.104	(0.928)	254696	10.0000	10.2
58	2-Hexanone	43	12.119	12.119	(0.929)	487336	50.0000	49.2
59	Dibromochloromethane	129	12.387	12.387	(0.950)	178509	10.0000	9.96
60	1,2-Dibromoethane	107	12.550	12.550	(0.962)	161888	10.0000	10.0
61	1-Chlorohexane	91	12.952	12.952	(0.993)	272060	10.0000	10.0
62	Chlorobenzene	112	13.071	13.071	(1.002)	505781	10.0000	10.2(Q)
63	1,1,1,2-Tetrachloroethane	131	13.130	13.130	(1.007)	169483	10.0000	9.89
64	Ethylbenzene	91	13.145	13.145	(1.008)	914007	10.0000	10.3
65	m-,p-Xylene	106	13.264	13.264	(1.017)	621261	20.0000	21.0
66	o-Xylene	106	13.710	13.710	(1.051)	304343	10.0000	10.6
M 67	Xylene (total)	106				925604	30.0000	31.6
68	Styrene	104	13.725	13.725	(1.052)	524672	10.0000	10.5
69	Bromoform	173	13.963	13.963	(1.071)	116890	10.0000	9.60
70	Isopropylbenzene	105	14.097	14.097	(1.081)	809638	10.0000	10.6
71	1,1,2,2-Tetrachloroethane	83	14.380	14.380	(0.921)	204926	10.0000	10.2
72	Bromobenzene	156	14.499	14.499	(0.929)	248883	10.0000	9.98
73	1,2,3-Trichloropropane	110	14.469	14.469	(0.927)	43942	10.0000	9.85(Q)
74	n-Propylbenzene	120	14.543	14.543	(0.931)	195657	10.0000	10.2
75	trans-1,4-Dichloro-2-butene	53	14.439	14.439	(0.925)	507358	10.0000	11.7(A)
76	2-Chlorotoluene	126	14.692	14.692	(0.941)	191550	10.0000	10.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77 4-Ethyltoluene	105	14.662	14.662	(0.939)	836460	10.0000	9.85(A)
78 1,3,5-Trimethylbenzene	105	14.722	14.722	(0.943)	679585	10.0000	10.2(Q)
79 4-Chlorotoluene	126	14.796	14.796	(0.948)	196621	10.0000	10.0
80 tert-Butylbenzene	119	15.109	15.109	(0.968)	604482	10.0000	10.5
81 1,2,4-Trimethylbenzene	105	15.153	15.153	(0.970)	689009	10.0000	10.5
82 sec-Butylbenzene	105	15.361	15.361	(0.984)	850073	10.0000	11.0
83 1,3-Dichlorobenzene	146	15.555	15.555	(0.996)	430136	10.0000	10.1
84 p-Isopropyltoluene	119	15.510	15.510	(0.993)	670614	10.0000	10.6
85 1,4-Dichlorobenzene	146	15.644	15.644	(1.002)	441564	10.0000	10.3
86 BenzylChloride	126	14.796	14.796	(0.948)	196621	10.0000	10.0
87 n-Butylbenzene	91	16.016	16.016	(1.026)	713672	10.0000	10.2
88 1,2-Dichlorobenzene	146	16.135	16.135	(1.033)	402980	10.0000	10.3
89 1,2-Dibromo-3-chloropropane	75	17.191	17.191	(1.101)	122541	40.0000	36.6(Q)
90 1,2,4-Trichlorobenzene	180	18.589	18.589	(1.191)	293827	10.0000	10.6
91 Hexachlorobutadiene	225	18.872	18.872	(1.209)	135786	10.0000	10.1
92 Naphthalene	128	19.095	19.095	(1.223)	453976	10.0000	10.9
93 1,2,3-Trichlorobenzene	180	19.586	19.586	(1.254)	259132	10.0000	10.7

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068663.D
Date : 27-DEC-2006 15:26
Client ID: QCALTSTD
Instrument: MSK.i
Sample Info: QCALTSTD;QCALTSTD
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
Date Analyzed: 12/29/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK
File ID: K068734

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
	Dichlorodifluoromethane (CFC 12)	10.0	9.990	0.01	0.290	0.290	-0.1	NA	+/- 40.0	AverageRF	
*	Chloromethane	10.0	11.21	0.10	0.249	0.280	12.1	NA	+/- 40.0	AverageRF	
#	Vinyl Chloride	10.0	10.45	0.01	0.236	0.246	4.5	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	11.97	0.01	0.152	0.182	19.6	NA	+/- 40.0	AverageRF	
	Chloroethane	10.0	10.31	0.01	0.123	0.127	3.1	NA	+/- 40.0	AverageRF	
	Trichlorofluoromethane (CFC 11)	10.0	10.17	0.01	0.360	0.366	1.7	NA	+/- 40.0	AverageRF	
	1,1,2-Trichlorotrifluoroethane	10.0	10.26	0.01	0.263	0.270	2.6	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene (1,1-DCE)	10.0	9.637	0.01	0.237	0.228	-3.6	NA	+/- 20.0	AverageRF	
	Acetone	50.0	53.92	0.01	0.062	0.067	7.8	NA	+/- 40.0	AverageRF	
	Carbon Disulfide	10.0	10.34	0.01	0.975	1.008	3.4	NA	+/- 40.0	AverageRF	
	Dichloromethane (Methylene Chloride)	10.0	10.37	0.01	0.314	0.325	3.7	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	9.733	0.01	0.280	0.273	-2.7	NA	+/- 40.0	AverageRF	
	Methyl tert-Butyl Ether	10.0	9.891	0.01	0.602	0.595	-1.1	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane (1,1-DCA)	10.0	10.37	0.10	0.506	0.524	3.7	NA	+/- 40.0	AverageRF	
	Vinyl Acetate	10.0	10.22	0.01	0.982	1.003	2.2	NA	+/- 40.0	AverageRF	
	2,2-Dichloropropane	10.0	10.01	0.01	0.423	0.423	0.1	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	9.650	0.01	0.310	0.300	-3.5	NA	+/- 40.0	AverageRF	
	2-Butanone (MEK)	50.0	50.77	0.01	0.088	0.089	1.6	NA	+/- 40.0	AverageRF	
	Bromochloromethane	10.0	9.700	0.01	0.148	0.144	-3.0	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	10.08	0.01	0.575	0.580	0.8	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane (TCA)	10.0	9.912	0.01	0.415	0.411	-0.9	NA	+/- 40.0	AverageRF	
	1,1-Dichloropropene	10.0	10.09	0.01	0.373	0.377	0.9	NA	+/- 40.0	AverageRF	
	Carbon Tetrachloride	10.0	9.652	0.01	0.319	0.308	-3.5	NA	+/- 40.0	AverageRF	
	Benzene	10.0	9.937	0.01	1.031	1.025	-0.6	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane (EDC)	10.0	10.31	0.01	0.383	0.395	3.1	NA	+/- 40.0	AverageRF	
	Trichloroethene (TCE)	10.0	9.747	0.01	0.323	0.287	NA	-2.5	+/- 40.0	Linear	
#	1,2-Dichloropropane	10.0	10.06	0.01	0.272	0.273	0.6	NA	+/- 20.0	AverageRF	
	Dibromomethane	10.0	9.840	0.01	0.195	0.192	-1.6	NA	+/- 40.0	AverageRF	
	Bromodichloromethane	10.0	9.892	0.01	0.399	0.395	-1.1	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	9.998	0.01	0.432	0.432	-0.0	NA	+/- 40.0	AverageRF	
	4-Methyl-2-pentanone (MIBK)	50.0	50.37	0.01	0.210	0.212	0.7	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	10.16	0.01	0.913	0.927	1.6	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	10.08	0.01	0.537	0.541	0.8	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	10.18	0.01	0.273	0.278	1.8	NA	+/- 40.0	AverageRF	
	Tetrachloroethene (PCE)	10.0	9.835	0.01	0.443	0.435	-1.6	NA	+/- 40.0	AverageRF	
	1,3-Dichloropropane	10.0	10.41	0.01	0.502	0.522	4.1	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	52.11	0.01	0.199	0.207	4.2	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	10.0	10.02	0.01	0.360	0.360	0.2	NA	+/- 40.0	AverageRF	
	1,2-Dibromoethane (EDB)	10.0	9.928	0.01	0.323	0.321	-0.7	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
Date Analyzed: 12/29/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK
File ID: K068734

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chlorobenzene	10.0	9.780	0.30	0.998	0.976	-2.2	NA	+/- 40.0	AverageRF	
	1,1,1,2-Tetrachloroethane	10.0	9.917	0.01	0.344	0.341	-0.8	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	10.03	0.01	1.773	1.778	0.3	NA	+/- 20.0	AverageRF	
	Xylenes, Total	30.0	29.80	0.01	0.588	0.584	-0.6	NA	+/- 40.0	AverageRF	
	Styrene	10.0	9.920	0.01	1.005	0.997	-0.8	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	9.469	0.10	0.244	0.231	-5.3	NA	+/- 40.0	AverageRF	
	Isopropylbenzene	10.0	9.738	0.01	1.530	1.490	-2.6	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	10.41	0.30	0.735	0.765	4.1	NA	+/- 40.0	AverageRF	
	Bromobenzene	10.0	10.05	0.01	0.915	0.920	0.5	NA	+/- 40.0	AverageRF	
	1,2,3-Trichloropropane	10.0	10.32	0.01	0.164	0.169	3.2	NA	+/- 40.0	AverageRF	
	n-Propylbenzene	10.0	9.977	0.01	0.701	0.700	-0.2	NA	+/- 40.0	AverageRF	
	2-Chlorotoluene	10.0	10.28	0.01	0.687	0.706	2.8	NA	+/- 40.0	AverageRF	
	1,3,5-Trimethylbenzene	10.0	10.57	0.01	2.435	2.573	5.7	NA	+/- 40.0	AverageRF	
	4-Chlorotoluene	10.0	9.929	0.01	0.720	0.715	-0.7	NA	+/- 40.0	AverageRF	
	tert-Butylbenzene	10.0	9.903	0.01	2.110	2.089	-1.0	NA	+/- 40.0	AverageRF	
	1,2,4-Trimethylbenzene	10.0	9.881	0.01	2.413	2.384	-1.2	NA	+/- 40.0	AverageRF	
	sec-Butylbenzene	10.0	9.591	0.01	2.824	2.709	-4.1	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	10.01	0.01	1.558	1.560	0.1	NA	+/- 40.0	AverageRF	
	4-Isopropyltoluene	10.0	9.642	0.01	2.321	2.238	-3.6	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	9.779	0.01	1.573	1.538	-2.2	NA	+/- 40.0	AverageRF	
	n-Butylbenzene	10.0	9.434	0.01	2.556	2.411	-5.6	NA	+/- 40.0	AverageRF	
	1,2-Dichlorobenzene	10.0	9.977	0.01	1.435	1.432	-0.2	NA	+/- 40.0	AverageRF	
	1,2-Dibromo-3-chloropropane (DBCP)	40.0	39.43	0.01	0.123	0.121	-1.4	NA	+/- 40.0	AverageRF	
	1,2,4-Trichlorobenzene	10.0	8.242	0.01	1.013	0.835	-17.6	NA	+/- 40.0	AverageRF	
	Hexachlorobutadiene	10.0	8.476	0.01	0.492	0.417	-15.2	NA	+/- 40.0	AverageRF	
	Naphthalene	10.0	8.279	0.01	1.534	1.270	-17.2	NA	+/- 40.0	AverageRF	
	1,2,3-Trichlorobenzene	10.0	8.367	0.01	0.887	0.742	-16.3	NA	+/- 40.0	AverageRF	
	Dibromofluoromethane	10.0	8.771	0.01	0.314	0.276	-12.3	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane-d4	10.0	8.428	0.01	0.332	0.279	-15.7	NA	+/- 40.0	AverageRF	
	Toluene-d8	10.0	8.934	0.01	1.277	1.141	-10.6	NA	+/- 40.0	AverageRF	
	4-Bromofluorobenzene	10.0	10.83	0.01	0.866	0.938	8.3	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068734.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 29-DEC-2006 09:39
Operator : X Inst ID: MSK.i
Smp Info : VSTD010;VSTD010
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 10:45 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

dl 02/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	9.670	9.670	(1.000)	655831	10.0000	
*	2 Chlorobenzene-d5	117	13.016	13.016	(1.000)	448709	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.604	15.604	(1.000)	239224	10.0000	
$	4 Dibromofluoromethane	113	8.866	8.866	(0.917)	180800	10.0000	8.77
$	5 1,2-Dichloroethane-d4	65	9.283	9.283	(0.960)	183239	10.0000	8.43
$	6 Toluene-d8	98	11.425	11.425	(0.878)	512118	10.0000	8.93
$	7 Bromofluorobenzene	174	14.280	14.280	(0.915)	224444	10.0000	10.8
	8 Dichlorodifluoromethane	85	3.497	3.497	(0.362)	189931	10.0000	9.99(Q)
	10 Chloromethane	50	3.824	3.824	(0.396)	183345	10.0000	11.2
	11 Vinyl chloride	62	4.032	4.032	(0.417)	161424	10.0000	10.4
	12 Bromomethane	94	4.642	4.642	(0.480)	119037	10.0000	12.0
	13 Chloroethane	64	4.806	4.806	(0.497)	83032	10.0000	10.3
	14 Trichlorofluoromethane	101	5.252	5.252	(0.543)	240192	10.0000	10.2
	15 1,1,2-Trichlorotrifluoroethane	101	6.025	6.025	(0.623)	177333	10.0000	10.3
	17 1,1-Dichloroethene	96	6.055	6.055	(0.626)	149832	10.0000	9.64
	18 Acetone	43	6.070	6.070	(0.628)	218538	50.0000	53.9
	21 Carbon disulfide	76	6.427	6.427	(0.665)	661083	10.0000	10.3
	22 Methylene chloride	84	6.695	6.695	(0.692)	213332	10.0000	10.4
	26 trans-1,2-Dichloroethene	96	7.096	7.096	(0.734)	178799	10.0000	9.73
	27 tert-Butylmethylether	73	7.067	7.067	(0.731)	390490	10.0000	9.89
	28 1,1-Dichloroethane	63	7.617	7.617	(0.788)	343923	10.0000	10.4
	30 Vinyl acetate	43	7.632	7.632	(0.789)	657978	10.0000	10.2

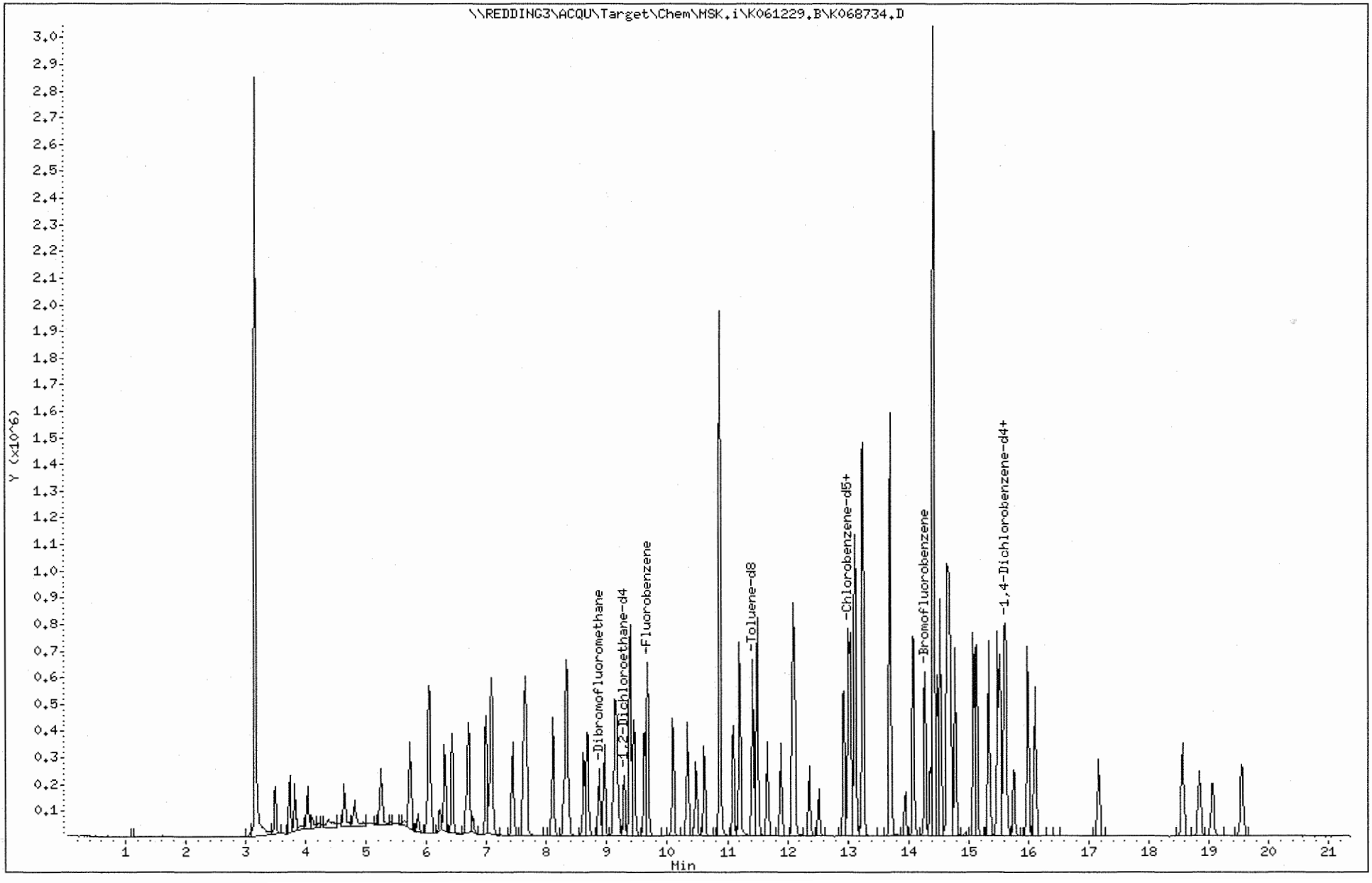
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	32 2,2-Dichloropropane	77	8.346	8.346	(0.863)	277538	10.0000	10.0(Q)
	33 cis-1,2-Dichloroethene	96	8.331	8.331	(0.862)	196457	10.0000	9.65
	35 2-Butanone	43	8.286	8.286	(0.857)	293143	50.0000	50.8
	36 Bromochloromethane	128	8.613	8.613	(0.891)	94410	10.0000	9.70
	37 Chloroform	83	8.688	8.688	(0.898)	380187	10.0000	10.1
	38 1,1,1-Trichloroethane	97	8.956	8.956	(0.926)	269801	10.0000	9.91(Q)
	40 1,1-Dichloropropene	75	9.134	9.134	(0.945)	247191	10.0000	10.1
	41 Carbon tetrachloride	119	9.164	9.164	(0.948)	201706	10.0000	9.65
	43 Benzene	78	9.387	9.387	(0.971)	672167	10.0000	9.94
	44 1,2-Dichloroethane	62	9.372	9.372	(0.969)	259066	10.0000	10.3
	45 Trichloroethene	95	10.086	10.086	(1.043)	188342	10.0000	9.75
	46 1,2-Dichloropropane	63	10.339	10.339	(1.069)	179191	10.0000	10.1
	48 Dibromomethane	93	10.473	10.473	(1.083)	126055	10.0000	9.84
	49 Bromodichloromethane	83	10.607	10.607	(1.097)	258991	10.0000	9.89
	51 cis-1,3-Dichloropropene	75	11.097	11.097	(1.148)	283415	10.0000	10.0
	52 4-Methyl-2-pentanone	43	11.202	11.202	(1.158)	693549	50.0000	50.4
	53 Toluene	92	11.499	11.499	(0.883)	416161	10.0000	10.2
	54 trans-1,3-Dichloropropene	75	11.663	11.663	(0.896)	242705	10.0000	10.1
	55 1,1,2-Trichloroethane	83	11.886	11.886	(0.913)	124727	10.0000	10.2
	56 Tetrachloroethene	166	12.124	12.124	(0.931)	195359	10.0000	9.84
	57 1,3-Dichloropropane	76	12.094	12.094	(0.929)	234394	10.0000	10.4
	58 2-Hexanone	43	12.094	12.094	(0.929)	464211	50.0000	52.1
	59 Dibromochloromethane	129	12.362	12.362	(0.950)	161631	10.0000	10.0
	60 1,2-Dibromoethane	107	12.525	12.525	(0.962)	144108	10.0000	9.93
	62 Chlorobenzene	112	13.046	13.046	(1.002)	438057	10.0000	9.78(Q)
	63 1,1,1,2-Tetrachloroethane	131	13.105	13.105	(1.007)	152987	10.0000	9.92
	64 Ethylbenzene	91	13.135	13.135	(1.009)	797902	10.0000	10.0
	65 m-,p-Xylene	106	13.254	13.254	(1.018)	529319	20.0000	19.9
	66 o-Xylene	106	13.700	13.700	(1.053)	257176	10.0000	9.90
M	67 Xylene (total)	106				786495	30.0000	29.8
	68 Styrene	104	13.700	13.700	(1.053)	447275	10.0000	9.92
	69 Bromoform	173	13.953	13.953	(1.072)	103808	10.0000	9.47
	70 Isopropylbenzene	105	14.087	14.087	(1.082)	668588	10.0000	9.74
	71 1,1,2,2-Tetrachloroethane	83	14.370	14.370	(0.921)	183114	10.0000	10.4
	72 Bromobenzene	156	14.489	14.489	(0.928)	220032	10.0000	10.0
	73 1,2,3-Trichloropropane	110	14.444	14.444	(0.926)	40424	10.0000	10.3(Q)
	74 n-Propylbenzene	120	14.533	14.533	(0.931)	167403	10.0000	9.98
	76 2-Chlorotoluene	126	14.667	14.667	(0.940)	168906	10.0000	10.3
	78 1,3,5-Trimethylbenzene	105	14.697	14.697	(0.942)	615516	10.0000	10.6(Q)
	79 4-Chlorotoluene	126	14.786	14.786	(0.948)	170978	10.0000	9.93
	80 tert-Butylbenzene	119	15.084	15.084	(0.967)	499799	10.0000	9.90
	81 1,2,4-Trimethylbenzene	105	15.143	15.143	(0.970)	570374	10.0000	9.88
	82 sec-Butylbenzene	105	15.337	15.337	(0.983)	648001	10.0000	9.59
	83 1,3-Dichlorobenzene	146	15.530	15.530	(0.995)	373223	10.0000	10.0
	84 p-Isopropyltoluene	119	15.485	15.485	(0.992)	535453	10.0000	9.64
	85 1,4-Dichlorobenzene	146	15.634	15.634	(1.002)	367934	10.0000	9.78
	87 n-Butylbenzene	91	15.991	15.991	(1.025)	576878	10.0000	9.43
	88 1,2-Dichlorobenzene	146	16.110	16.110	(1.032)	342510	10.0000	9.98
	89 1,2-Dibromo-3-chloropropane	75	17.166	17.166	(1.100)	116047	40.0000	39.4(Q)
	90 1,2,4-Trichlorobenzene	180	18.564	18.564	(1.190)	199697	10.0000	8.24
	91 Hexachlorobutadiene	225	18.847	18.847	(1.208)	99847	10.0000	8.48
	92 Naphthalene	128	19.070	19.070	(1.222)	303797	10.0000	8.28
	93 1,2,3-Trichlorobenzene	180	19.561	19.561	(1.254)	177529	10.0000	8.37

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068734.D
Date : 29-DEC-2006 09:39
Client ID: VSTD010
Sample Info: VSTD010;VSTD010
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants **Service Request:** D0602139
Project: TDY

Analysis Run Log
Volatile Organic Compounds

Analysis Method: SW8260 **Instrument ID:** MSK
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
K068656	VSTD00.5	VSTD00.5	12/27/2006	12:20		12/27/2006	12:40
K068657	VSTD001	VSTD001	12/27/2006	12:46		12/27/2006	13:06
K068658	VSTD005	VSTD005	12/27/2006	13:13		12/27/2006	13:33
K068659	VSTD010	VSTD010	12/27/2006	13:40		12/27/2006	14:00
K068660	VSTD020	VSTD020	12/27/2006	14:07		12/27/2006	14:27
K068661	VSTD040	VSTD040	12/27/2006	14:33		12/27/2006	14:53
K068662	VSTD100	VSTD100	12/27/2006	15:00		12/27/2006	15:20
K068663	QCALTSTD	QCALTSTD	12/27/2006	15:26		12/27/2006	15:46
K068734	VSTD010	VSTD010	12/29/2006	09:39		12/29/2006	09:59
K068735	Laboratory Control Sample	K1229W01LCS	12/29/2006	10:06		12/29/2006	10:26
K068736	Laboratory Control Sample Duplicate	K1229W01LCSD	12/29/2006	10:33		12/29/2006	10:53
K068738	Method Blank	K1229W01	12/29/2006	11:26		12/29/2006	11:46
K068739	QCEB	D0602139-001	12/29/2006	11:53		12/29/2006	12:13
K068740	QCEB	D0602139-005	12/29/2006	12:20		12/29/2006	12:40
K068745	T-54-GW-40	D0602139-003	12/29/2006	14:33		12/29/2006	14:53
K068748	T-54-GW-65	D0602139-004	12/29/2006	15:54		12/29/2006	16:14
K068751	T-55-GW-40	D0602139-007	12/29/2006	17:14		12/29/2006	17:34
K068754	T-55-GW-70	D0602139-008	12/29/2006	18:33		12/29/2006	18:53
K068759	T-54-GW-11	D0602139-002	12/29/2006	19:53		12/29/2006	20:13
K068760	T-55-GW-11	D0602139-006	12/29/2006	20:19		12/29/2006	20:39

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Extracted: 12/29/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K1229W01

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	K1229W01	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	K1229W01LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	K1229W01LCSD	NA	NA	10.00 ML	10.00	NA	
QCEB	D0602139-001	12/19/2006	12/22/2006	10.00 ML	10.00	NA	
QCEB	D0602139-005	12/20/2006	12/22/2006	10.00 ML	10.00	NA	
T-54-GW-40	D0602139-003	12/20/2006	12/22/2006	10.00 ML	10.00	NA	
T-54-GW-65	D0602139-004	12/20/2006	12/22/2006	10.00 ML	10.00	NA	
T-55-GW-40	D0602139-007	12/20/2006	12/22/2006	10.00 ML	10.00	NA	
T-55-GW-70	D0602139-008	12/20/2006	12/22/2006	10.00 ML	10.00	NA	
T-54-GW-11	D0602139-002	12/20/2006	12/22/2006	10.00 ML	10.00	NA	
T-55-GW-11	D0602139-006	12/20/2006	12/22/2006	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139

Holding Time Summary
Volatile Organic Compounds

Analysis Method: SW8260

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
QCEB	12/19/2006	12/22/2006	N/A	N/A	N/A	N/A	N/A	N/A	12/29/2006	14	10	
T-54-GW-11	12/20/2006	12/22/2006	N/A	N/A	N/A	N/A	N/A	N/A	12/29/2006	14	9	
T-54-GW-40	12/20/2006	12/22/2006	N/A	N/A	N/A	N/A	N/A	N/A	12/29/2006	14	9	
T-54-GW-65	12/20/2006	12/22/2006	N/A	N/A	N/A	N/A	N/A	N/A	12/29/2006	14	9	
QCEB	12/20/2006	12/22/2006	N/A	N/A	N/A	N/A	N/A	N/A	12/29/2006	14	9	
T-55-GW-11	12/20/2006	12/22/2006	N/A	N/A	N/A	N/A	N/A	N/A	12/29/2006	14	9	
T-55-GW-40	12/20/2006	12/22/2006	N/A	N/A	N/A	N/A	N/A	N/A	12/29/2006	14	9	
T-55-GW-70	12/20/2006	12/22/2006	N/A	N/A	N/A	N/A	N/A	N/A	12/29/2006	14	9	

Comments:

Raw Data

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068653.D

Date : 27-DEC-2006 10:58

Client ID: BFB

Instrument: MSK.i

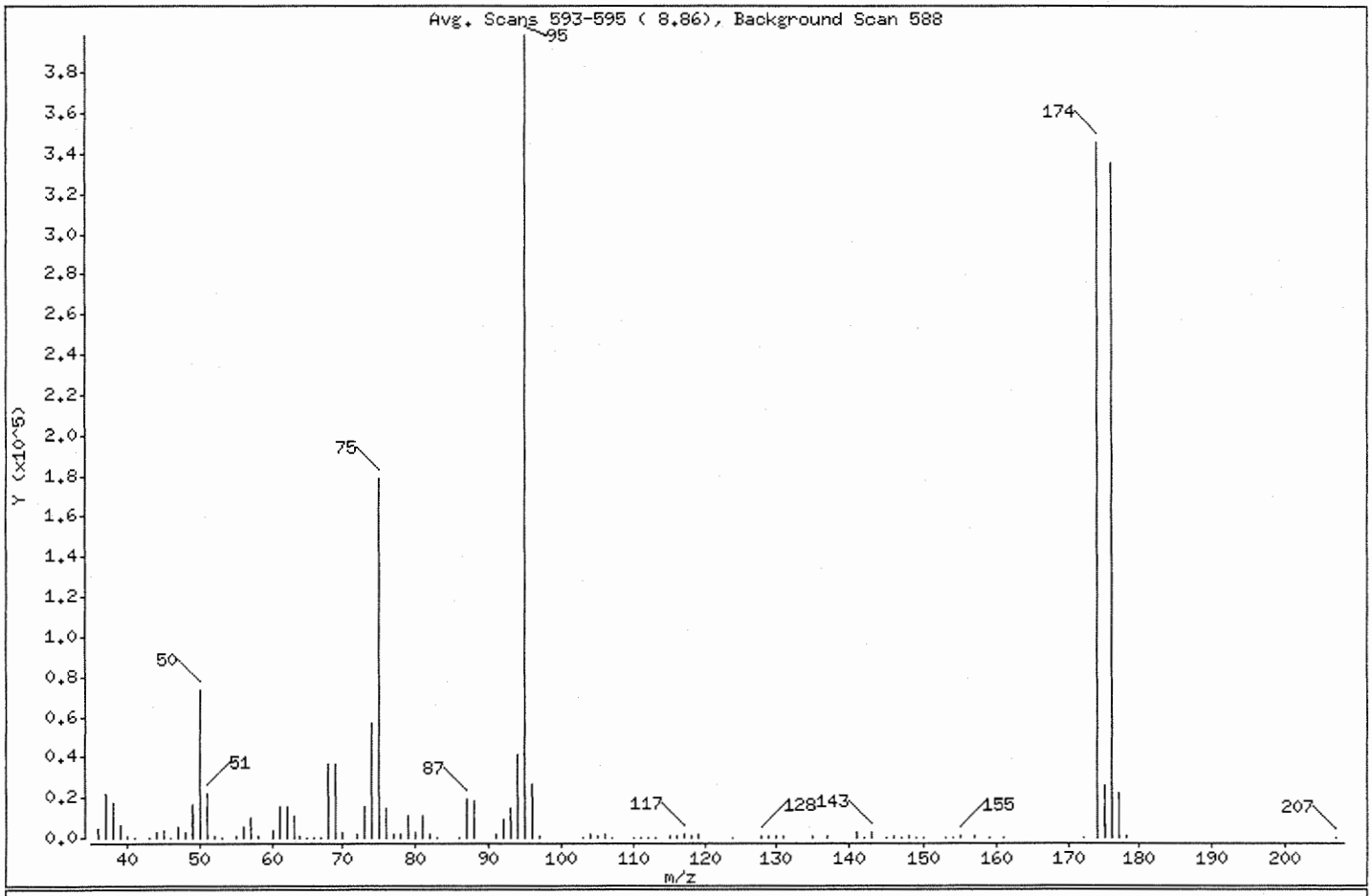
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.36
75	30.00 - 60.00% of mass 95	44.80
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	86.64
175	5.00 - 9.00% of mass 174	6.34 (7.32)
176	95.00 - 101.00% of mass 174	84.04 (97.00)
177	5.00 - 9.00% of mass 176	5.42 (6.45)

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068653.D

Date : 27-DEC-2006 10:58

Client ID: BFB

Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

Data File: K068653.D

Spectrum: Avg. Scans 593-595 (8.86), Background Scan 588

Location of Maximum: 95.00

Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4727	64.00	1159	94.00	41232	141.00	2695
37.00	21792	65.00	282	95.00	398592	142.00	94
38.00	17856	66.00	99	96.00	26760	143.00	2768
39.00	6794	67.00	194	97.00	964	145.00	215
40.00	523	68.00	37032	103.00	122	146.00	497
41.00	141	69.00	36640	104.00	1539	147.00	240
43.00	134	70.00	2895	105.00	564	148.00	874
44.00	2613	72.00	2043	106.00	1527	149.00	152
45.00	3531	73.00	15272	107.00	398	150.00	366
46.00	331	74.00	56864	110.00	181	153.00	164
47.00	5721	75.00	178560	111.00	228	154.00	180
48.00	2739	76.00	14761	112.00	205	155.00	928
49.00	16592	77.00	2153	113.00	250	157.00	648
50.00	73200	78.00	1903	115.00	489	159.00	388
51.00	22248	79.00	11114	116.00	1107	161.00	377
52.00	1035	80.00	2962	117.00	1802	172.00	95
53.00	95	81.00	10989	118.00	1145	174.00	345344
55.00	1072	82.00	2063	119.00	1618	175.00	25264
56.00	5055	83.00	361	124.00	235	176.00	334976
57.00	9814	86.00	216	128.00	1331	177.00	21600
58.00	477	87.00	18936	129.00	576	178.00	616
60.00	3295	88.00	18448	130.00	1232	207.00	170
61.00	15973	91.00	1539	131.00	512		
62.00	15198	92.00	9446	135.00	463		
63.00	10819	93.00	14757	137.00	537		

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068653.D

Date : 27-DEC-2006 10:58

Client ID: BFB

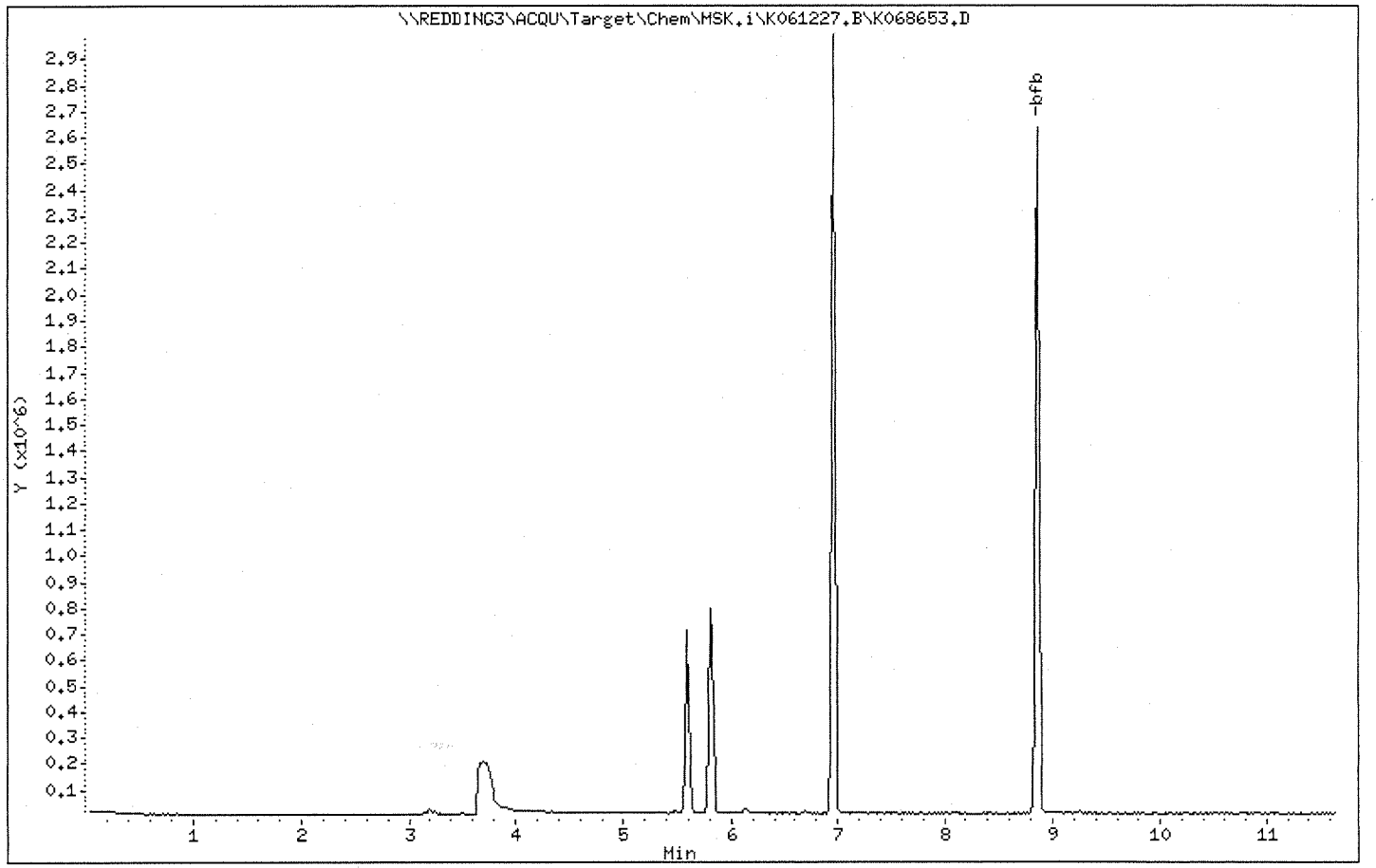
Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068732.D

Date : 29-DEC-2006 08:48

Client ID: BFB

Instrument: MSK.i

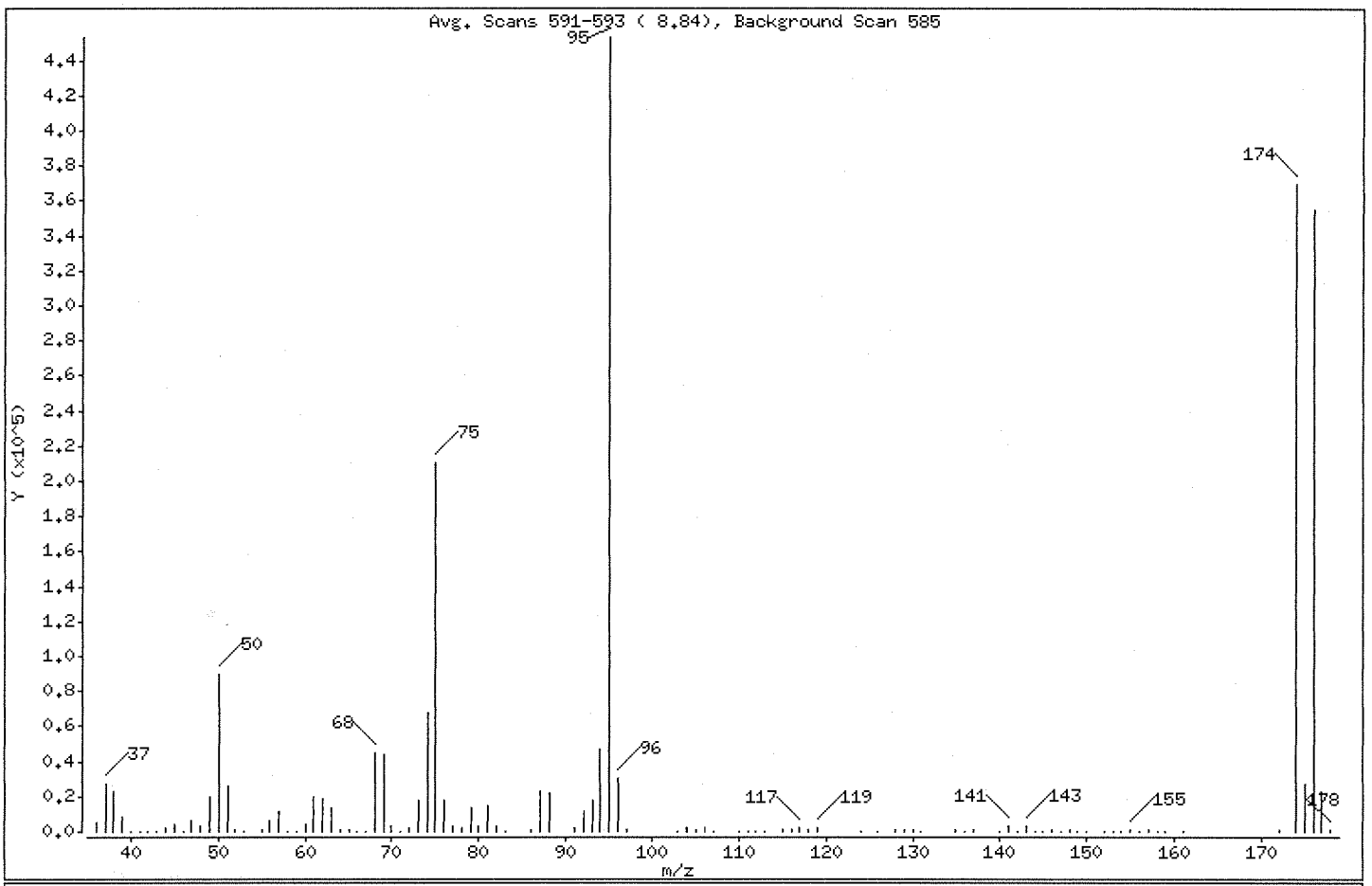
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.70
75	30.00 - 60.00% of mass 95	46.53
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	81.57
175	5.00 - 9.00% of mass 174	5.89 (7.22)
176	95.00 - 101.00% of mass 174	78.38 (96.09)
177	5.00 - 9.00% of mass 176	5.12 (6.54)

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068732.D

Date : 29-DEC-2006 08:48

Client ID: BFB

Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

Data File: K068732.D

Spectrum: Avg. Scans 591-593 (8.84), Background Scan 585

Location of Maximum: 95.00

Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5565	64.00	1325	95.00	453248	141.00	3385
37.00	27032	65.00	623	96.00	30176	142.00	384
38.00	22768	66.00	118	97.00	890	143.00	3472
39.00	8625	67.00	276	103.00	241	144.00	217
40.00	368	68.00	44688	104.00	1818	145.00	311
41.00	43	69.00	44240	105.00	768	146.00	623
42.00	442	70.00	3188	106.00	1758	147.00	222
43.00	422	71.00	249	107.00	369	148.00	936
44.00	2490	72.00	2284	110.00	213	149.00	259
45.00	4576	73.00	17896	111.00	270	150.00	421
46.00	424	74.00	67248	112.00	104	152.00	118
47.00	6525	75.00	210880	113.00	220	153.00	246
48.00	3289	76.00	17936	115.00	550	154.00	209
49.00	20016	77.00	3093	116.00	1274	155.00	893
50.00	89272	78.00	2169	117.00	2475	156.00	288
51.00	26536	79.00	13920	118.00	1358	157.00	722
52.00	976	80.00	3522	119.00	1890	158.00	207
53.00	266	81.00	14175	124.00	210	159.00	467
55.00	1166	82.00	2738	126.00	96	161.00	466
56.00	6515	83.00	209	128.00	1476	172.00	810
57.00	11624	86.00	612	129.00	671	174.00	369728
58.00	465	87.00	23104	130.00	1404	175.00	26712
59.00	120	88.00	21424	131.00	486	176.00	355264
60.00	4269	91.00	1710	135.00	639	177.00	23224
61.00	20048	92.00	11169	136.00	94	178.00	612
62.00	18312	93.00	17280	137.00	666		
63.00	13926	94.00	46816	140.00	149		

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068732.D

Date : 29-DEC-2006 08:48

Client ID: BFB

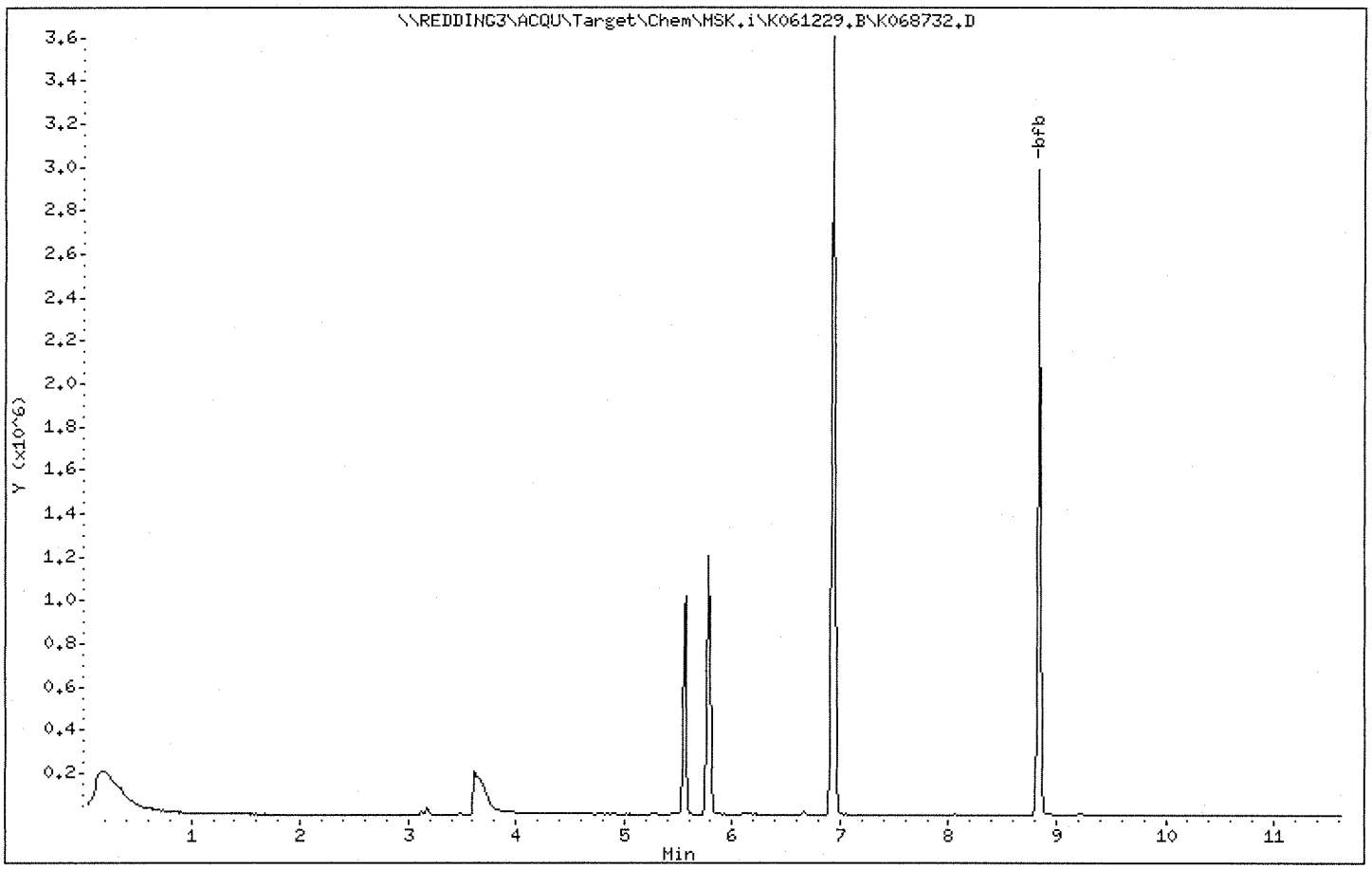
Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K1229W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	ND	U	0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**1.8**	J	0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	ND	U	0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	ND	U	0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	ND	U	0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	ND	U	0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	ND	U	0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	ND	U	0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K1229W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	ND	U	0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	ND	U	0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	ND	U	0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	91	79-135	12/29/2006	
4-Bromofluorobenzene - SS	108	82-124	12/29/2006	
Dibromofluoromethane - SS	93	84-127	12/29/2006	
Toluene-d8 - SS	89	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068738.D
Lab Smp Id: K1229W01 Client Smp ID: K1229W01
Inj Date : 29-DEC-2006 11:26
Operator : X Inst ID: MSK.i
Smp Info : K1229W01;K1229W01
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 10:45 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

dl 12/29/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.672	9.670	(1.000)	636889	10.0000	
* 2	Chlorobenzene-d5	117	13.019	13.016	(1.000)	431836	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.607	15.604	(1.000)	216857	10.0000	
$ 4	Dibromofluoromethane	113	8.869	8.866	(0.917)	186201	9.30164	9.30
$ 5	1,2-Dichloroethane-d4	65	9.285	9.283	(0.960)	192725	9.12753	9.13
$ 6	Toluene-d8	98	11.427	11.425	(0.878)	489931	8.88134	8.88
$ 7	Bromofluorobenzene	174	14.283	14.280	(0.915)	202418	10.7772	10.8
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.645	4.642	(0.480)	1341	0.13881	0.139(a)
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.058	6.070	(0.626)	6951	1.76597	1.76(a)
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

TC 12/29/06

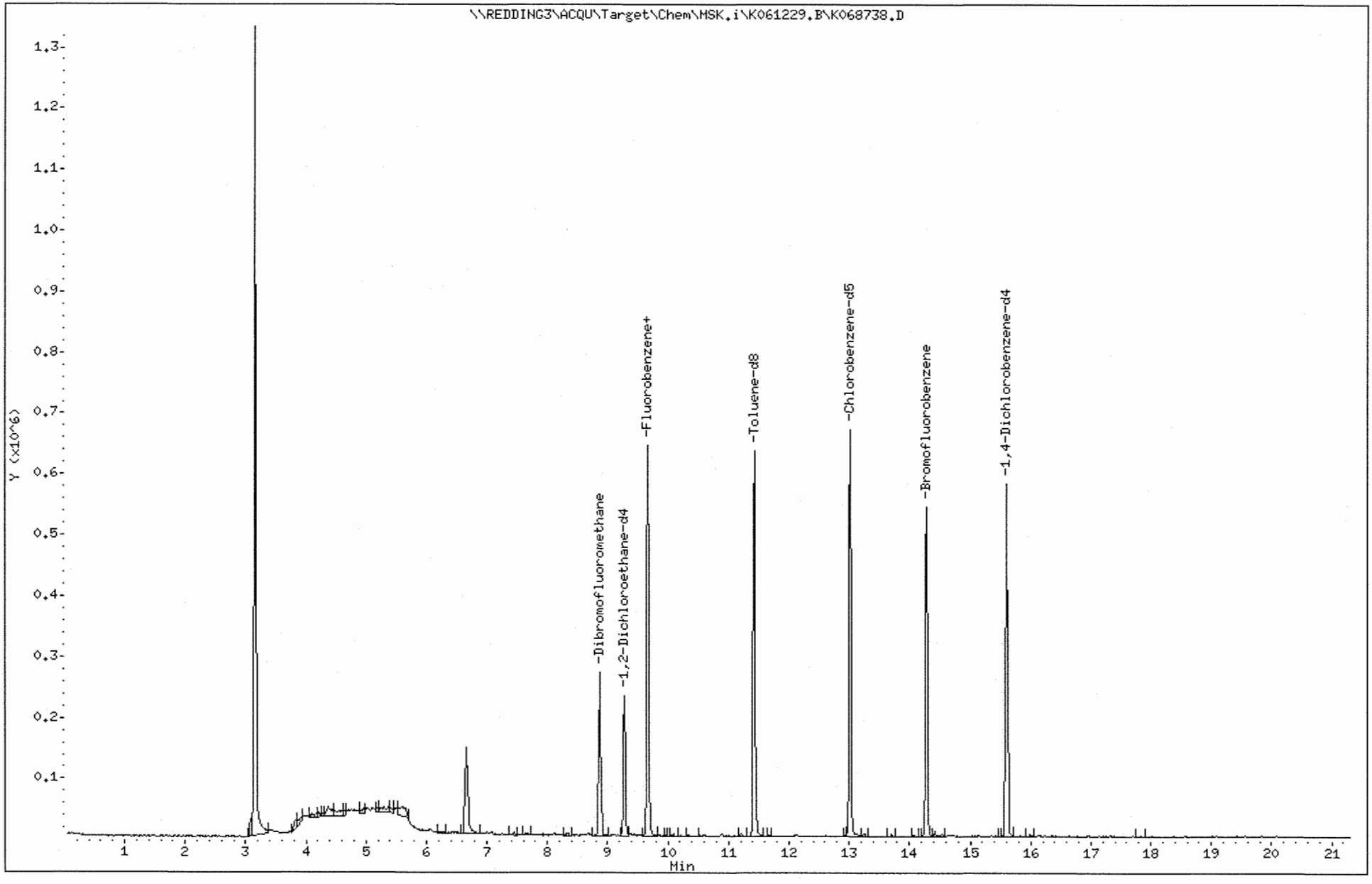
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.304	8.286	(0.859)	3839	0.68464	0.685(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.672	9.372	(1.000)	9197	0.37679	0.377(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068738.D
Date : 29-DEC-2006 11:26
Client ID: K1229W01
Sample Info: K1229W01;K1229W01
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068738.D

Date : 29-DEC-2006 11:26

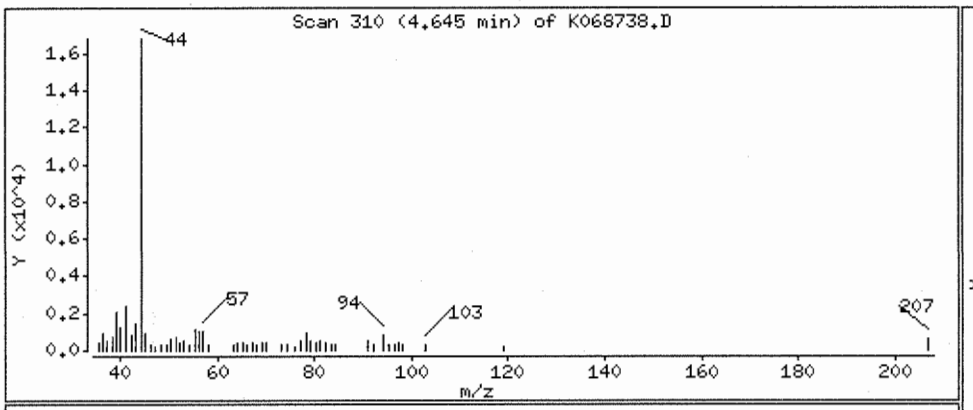
Client ID: K1229W01 Instrument: MSK.i

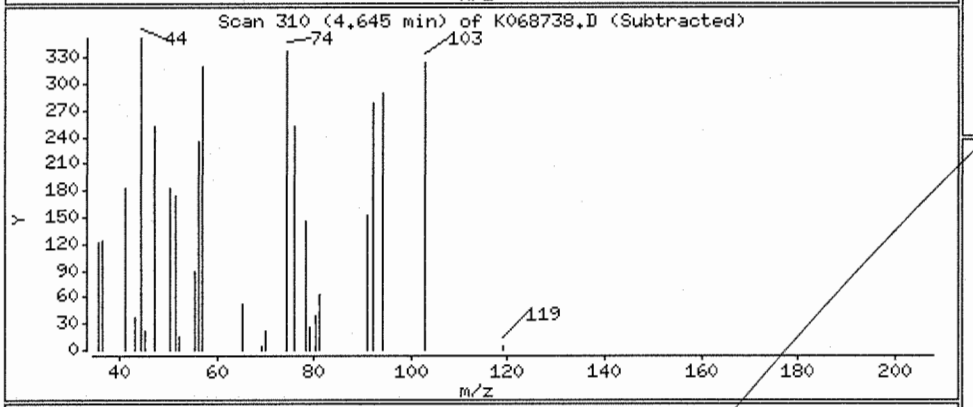
Sample Info: K1229W01;K1229W01

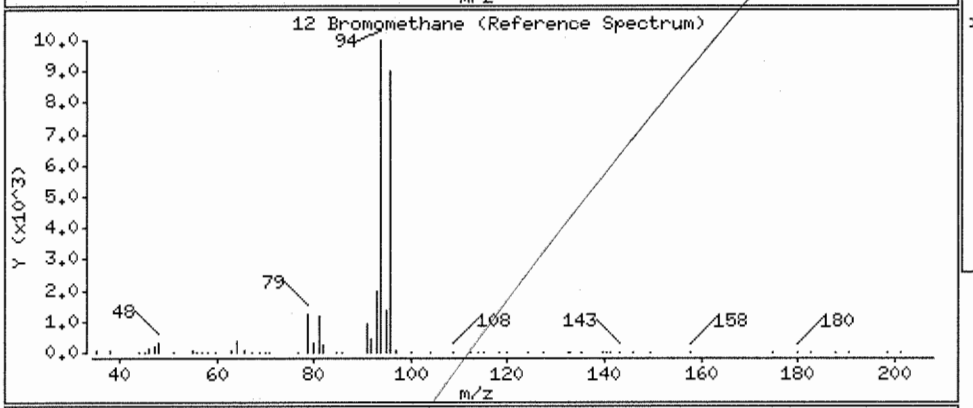
Purge Volume: 10.0 Operator: X

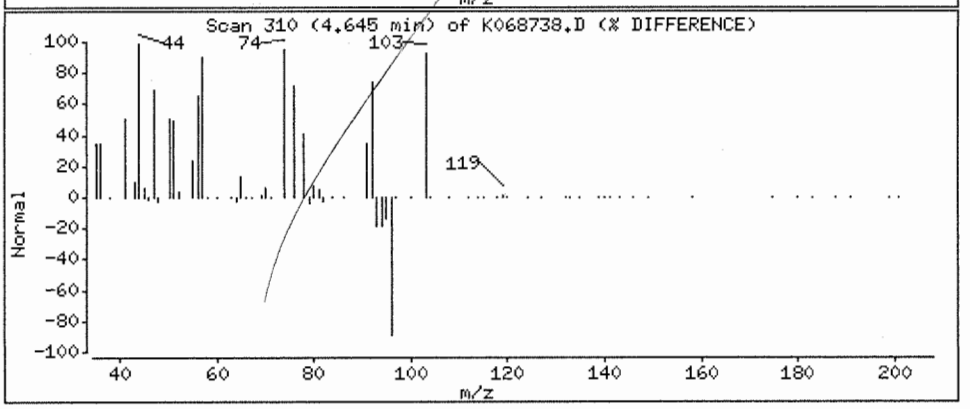
Column phase: DB-624 Column diameter: 0.32

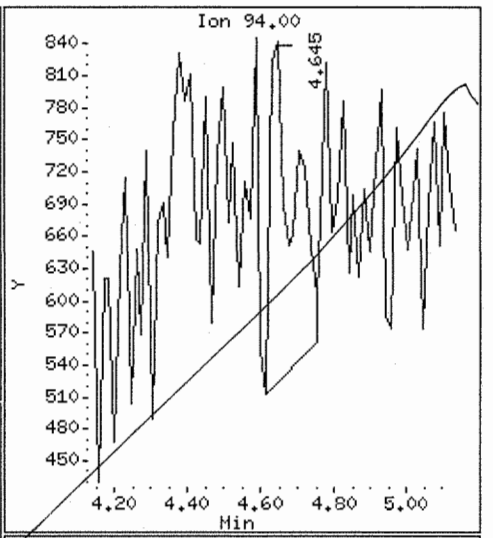
12 Bromomethane Concentration: 0.139 ug/L

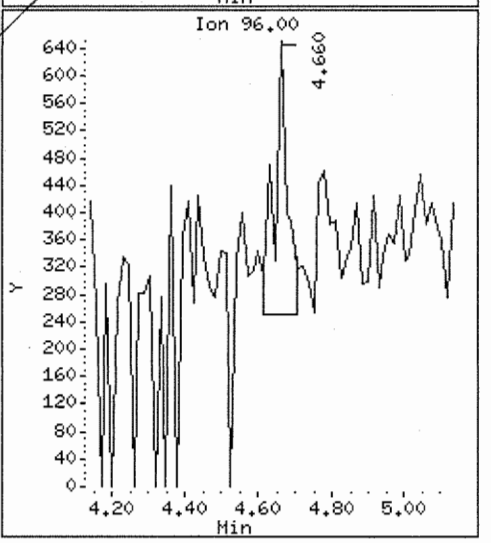












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068738.D

Date : 29-DEC-2006 11:26

Client ID: K1229W01

Instrument: MSK.i

Sample Info: K1229W01;K1229W01

Purge Volume: 10.0

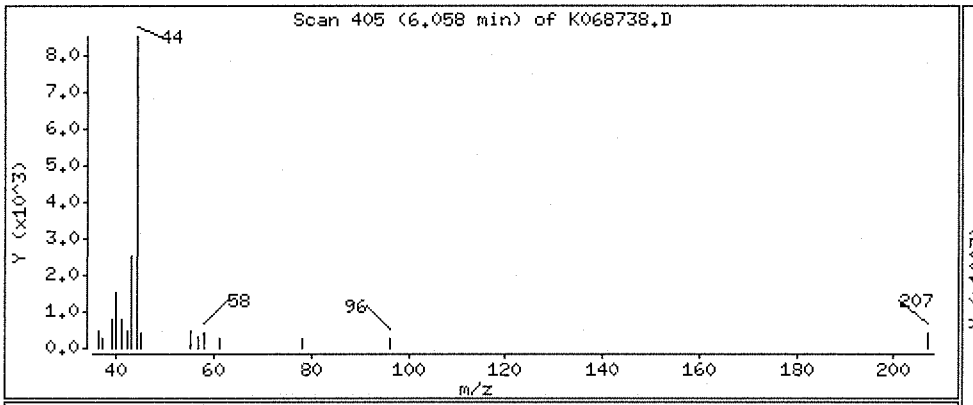
Operator: X

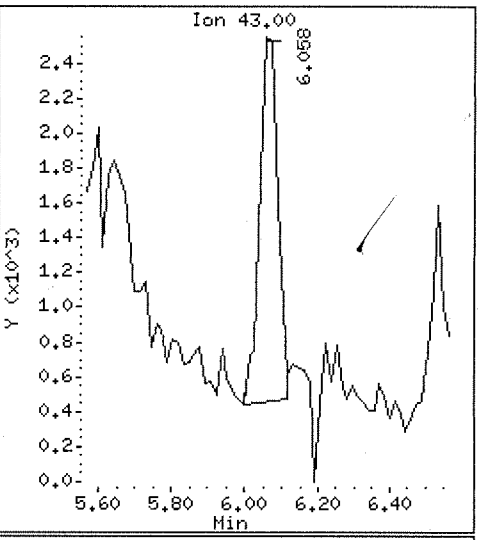
Column phase: DB-624

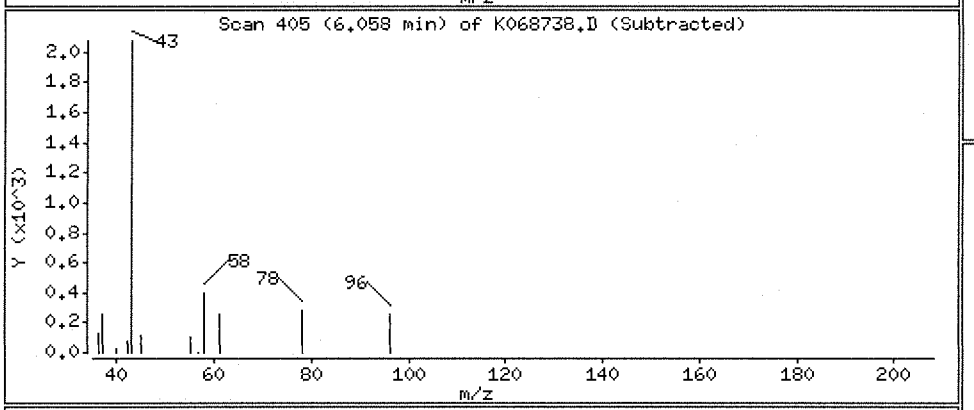
Column diameter: 0.32

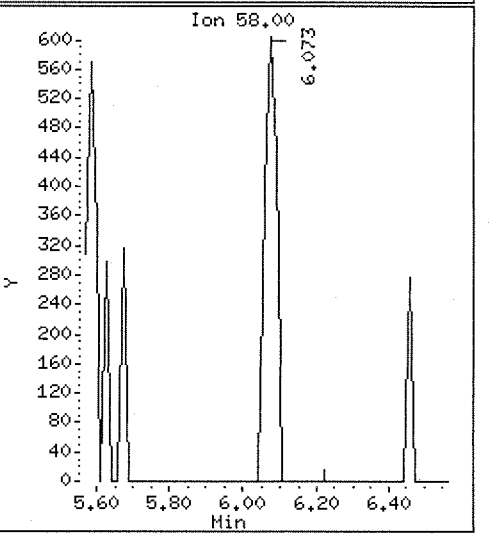
18 Acetone

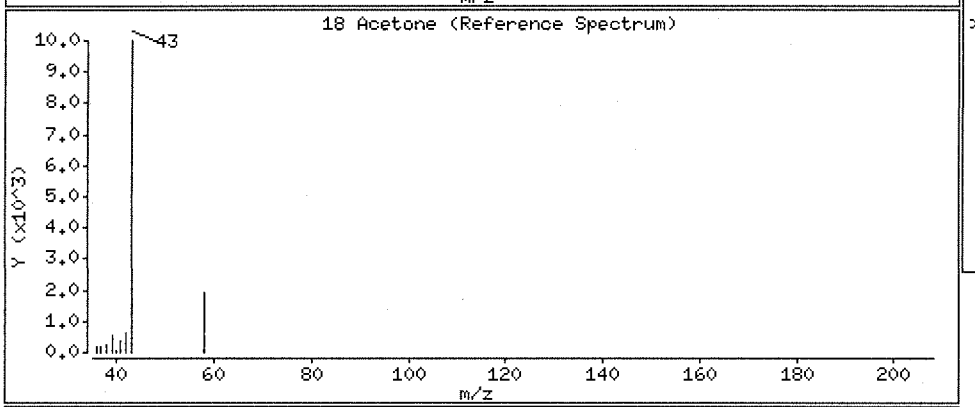
Concentration: 1.76 ug/L

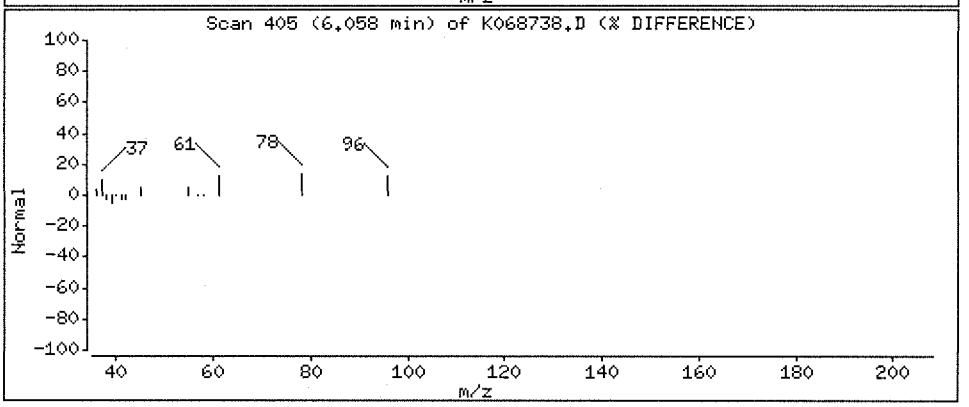












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068738.D

Date : 29-DEC-2006 11:26

Client ID: K1229W01

Instrument: MSK.i

Sample Info: K1229W01;K1229W01

Purge Volume: 10.0

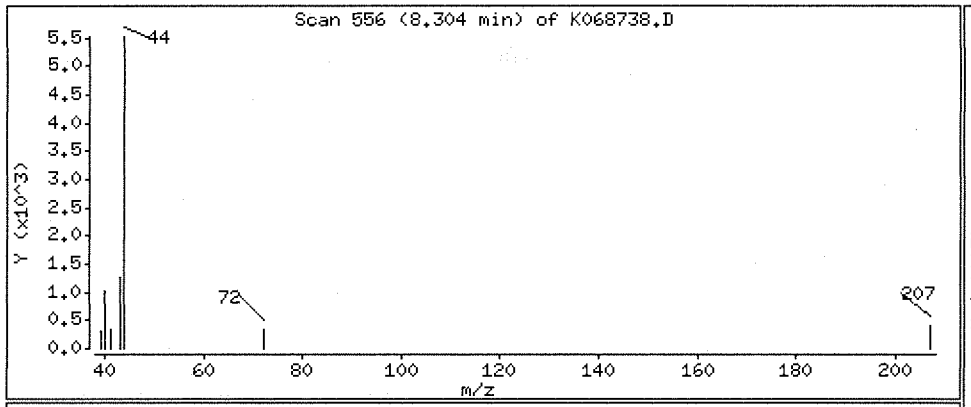
Operator: X

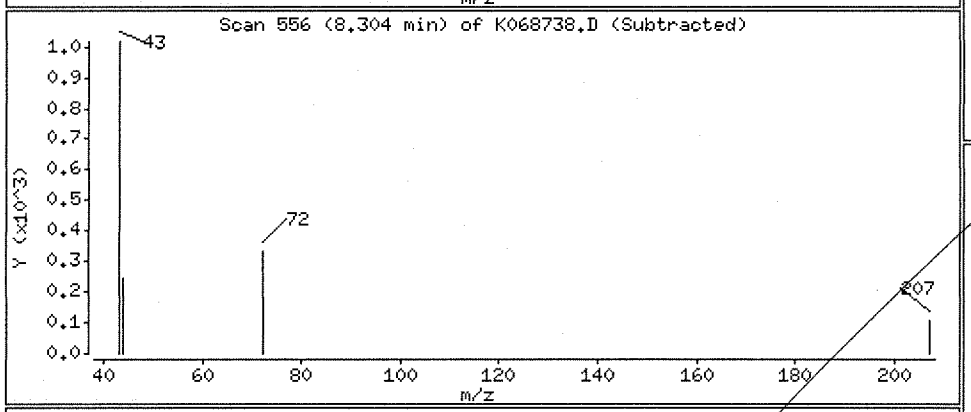
Column phase: DB-624

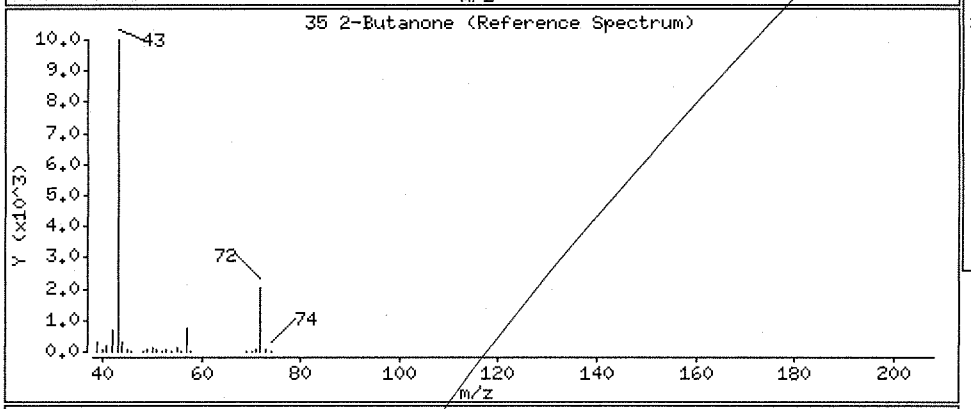
Column diameter: 0.32

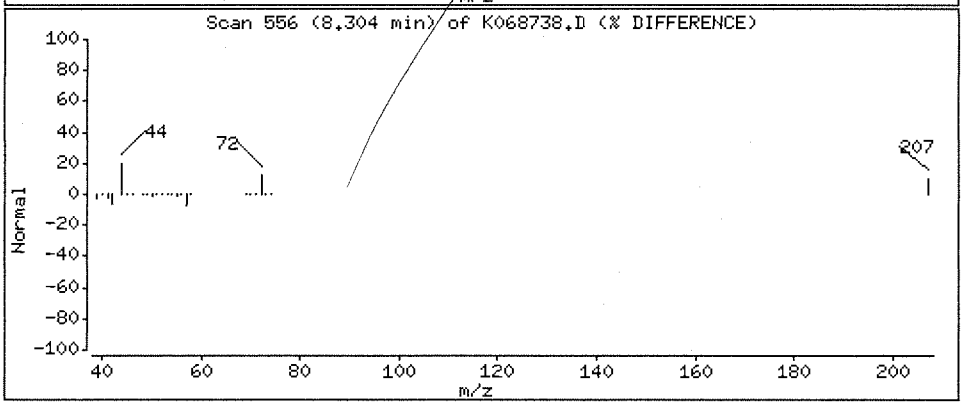
35 2-Butanone

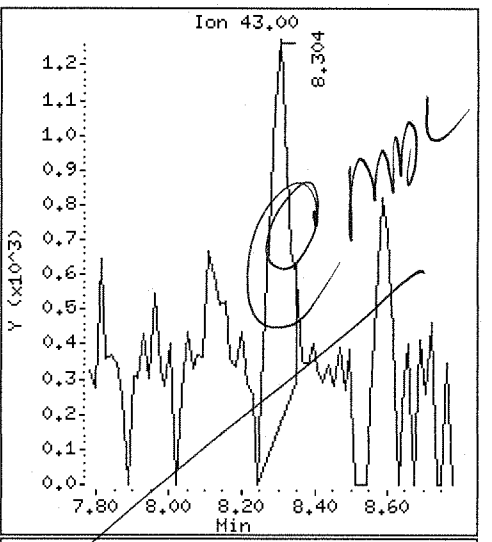
Concentration: 0.685 ug/L

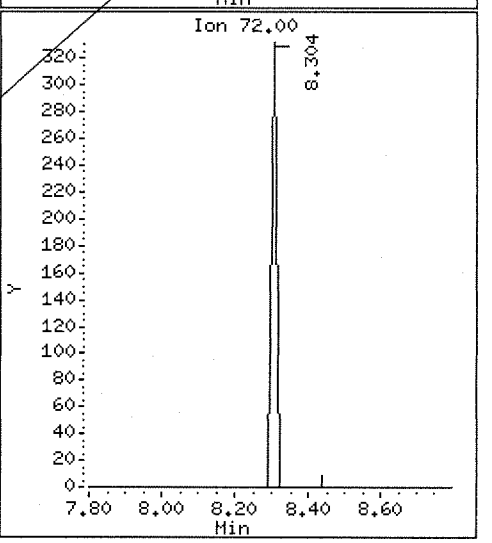












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068738.D

Date : 29-DEC-2006 11:26

Client ID: K1229W01

Instrument: MSK.i

Sample Info: K1229W01;K1229W01

Purge Volume: 10.0

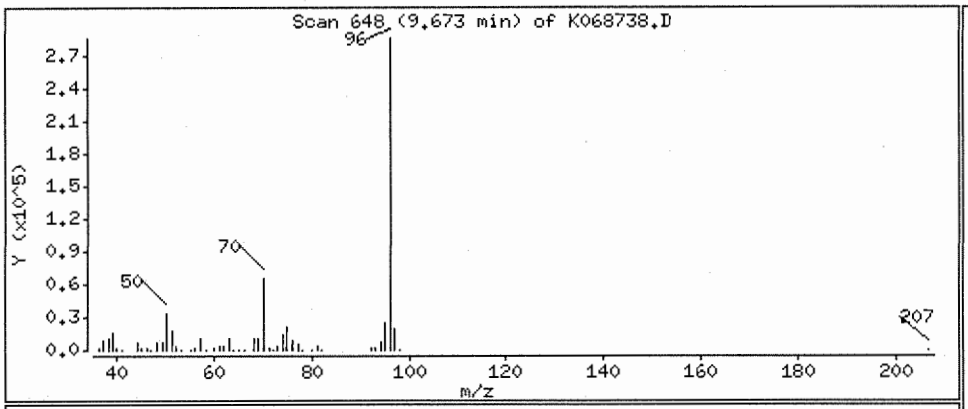
Operator: X

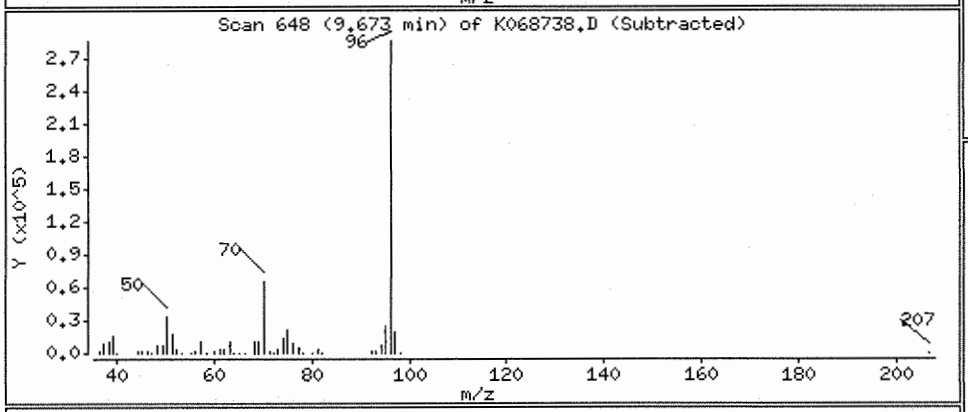
Column phase: DB-624

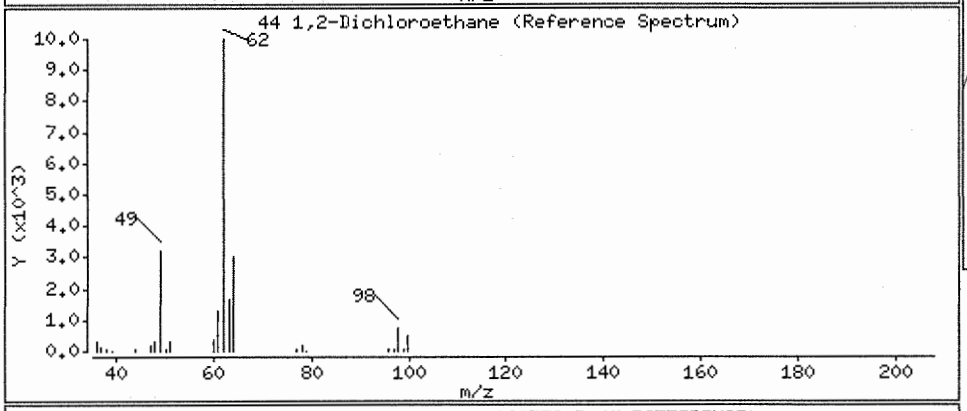
Column diameter: 0.32

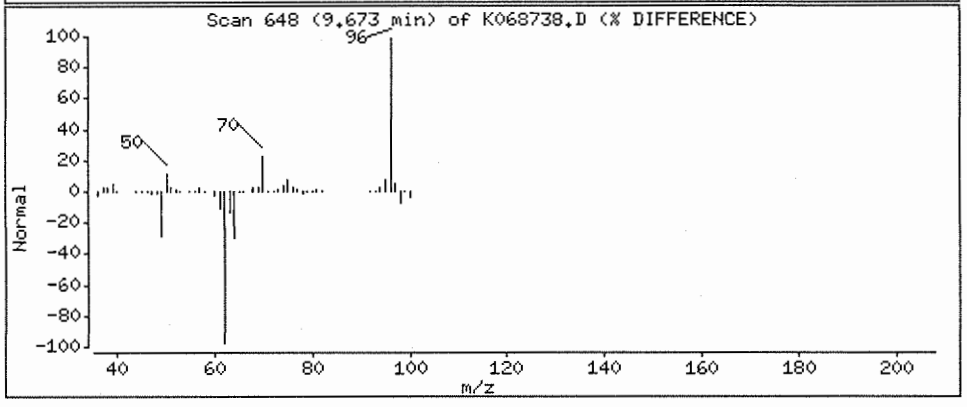
44 1,2-Dichloroethane

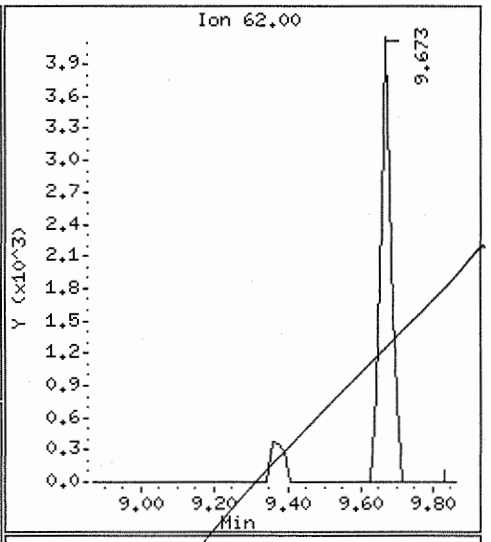
Concentration: 0.377 ug/L

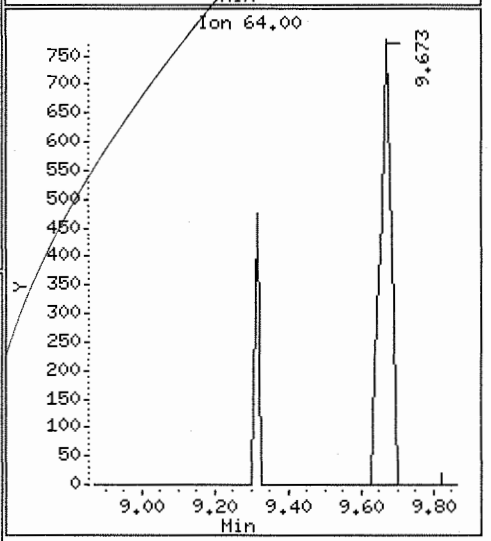












COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: K1229W01LCS
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**10.8**		0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	**12.1**		0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	**11.8**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	**12.4**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	**10.7**		0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	**10.9**		0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	**10.8**		0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	**11.1**		0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**54.7**		0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	**10.4**		0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**10.9**		0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	**10.2**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	**10.3**		0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	**10.7**		0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	**10.2**		0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	**10.1**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	**10.4**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**53.0**		0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	**10.2**		0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	**10.2**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	**10.2**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	**10.6**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	**9.98**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	**10.6**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	**10.9**		0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	**10.1**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	**10.6**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	**10.2**		0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	**10.4**		0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	**10.4**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	**52.4**		0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	**10.2**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	**10.2**		0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	**10.4**		0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	**9.90**		0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	**10.7**		0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	**52.3**		0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	**10.2**		0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: K1229W01LCS
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**10.1**		0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	**10.1**		0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	**10.1**		0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	**10.3**		0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	**30.6**		0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	**10.3**		0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	**9.55**		0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	**10.1**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	**11.0**		0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	**9.82**		0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	**10.4**		0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	**10.0**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	**10.3**		0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	**10.1**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	**9.94**		0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	**10.1**		0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	**10.4**		0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	**10.7**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	**10.1**		0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	**10.2**		0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	**10.2**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	**10.2**		0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	**10.3**		0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	**38.4**		0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	**9.50**		0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	**9.19**		0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	**9.74**		0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	**9.53**		0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	84	79-135	12/29/2006	
4-Bromofluorobenzene - SS	107	82-124	12/29/2006	
Dibromofluoromethane - SS	91	84-127	12/29/2006	
Toluene-d8 - SS	89	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068735.D
Lab Smp Id: K1229W01LCS Client Smp ID: K1229W01LCS
Inj Date : 29-DEC-2006 10:06
Operator : X Inst ID: MSK.i
Smp Info : K1229W01LCS;K1229W01LCS
Misc Info :
Comment :
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Meth Date : 29-Dec-2006 10:45 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

DR 01/02/07

12/29/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	9.668	9.670	(1.000)	650988	10.0000	
* 2 Chlorobenzene-d5	117	13.015	13.016	(1.000)	462007	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	15.603	15.604	(1.000)	253271	10.0000	
$ 4 Dibromofluoromethane	113	8.865	8.866	(0.917)	186407	9.11025	9.11
$ 5 1,2-Dichloroethane-d4	65	9.282	9.283	(0.960)	181806	8.42392	8.42
$ 6 Toluene-d8	98	11.423	11.425	(0.878)	526379	8.91893	8.92
$ 7 Bromofluorobenzene	174	14.279	14.280	(0.915)	234524	10.6913	10.7
8 Dichlorodifluoromethane	85	3.496	3.497	(0.362)	204218	10.8210	10.8(Q)
10 Chloromethane	50	3.823	3.824	(0.395)	196975	12.1313	12.1
11 Vinyl chloride	62	4.031	4.032	(0.417)	180463	11.7656	11.8
12 Bromomethane	94	4.641	4.642	(0.480)	122638	12.4194	12.4
13 Chloroethane	64	4.805	4.806	(0.497)	85843	10.7364	10.7
14 Trichlorofluoromethane	101	5.251	5.252	(0.543)	256059	10.9272	10.9
15 1,1,2-Trichlorotrifluoroethane	101	6.024	6.025	(0.623)	185216	10.7991	10.8
17 1,1-Dichloroethene	96	6.054	6.055	(0.626)	171610	11.1203	11.1
18 Acetone	43	6.069	6.070	(0.628)	220050	54.6949	54.7
21 Carbon disulfide	76	6.426	6.427	(0.665)	663355	10.4516	10.4
22 Methylene chloride	84	6.708	6.695	(0.694)	222996	10.9217	10.9
26 trans-1,2-Dichloroethene	96	7.095	7.096	(0.734)	185661	10.1817	10.2
27 tert-Butylmethylether	73	7.065	7.067	(0.731)	405310	10.3432	10.3(Q)
28 1,1-Dichloroethane	63	7.616	7.617	(0.788)	353528	10.7355	10.7
30 Vinyl acetate	43	7.631	7.632	(0.789)	649539	10.1639	10.2

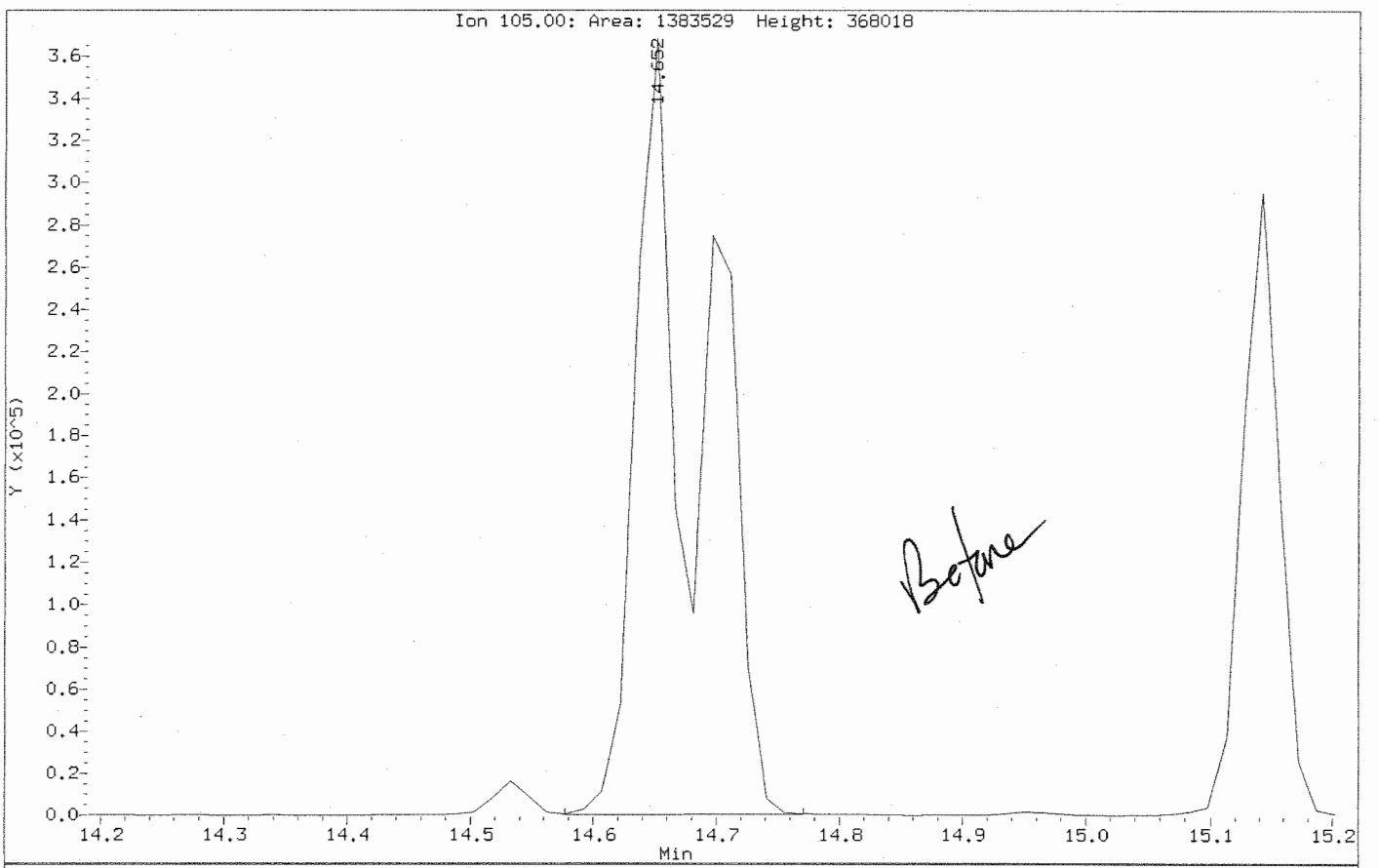
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	8.345	8.346	(0.863)	277438	10.0814	10.1(Q)
33	cis-1,2-Dichloroethene	96	8.330	8.331	(0.862)	210850	10.4341	10.4
35	2-Butanone	43	8.300	8.286	(0.858)	304022	53.0442	53.0
36	Bromochloromethane	128	8.627	8.613	(0.892)	99124	10.2599	10.2(Q)
37	Chloroform	83	8.687	8.688	(0.898)	383464	10.2382	10.2
38	1,1,1-Trichloroethane	97	8.954	8.956	(0.926)	277198	10.2596	10.2(Q)
40	1,1-Dichloropropene	75	9.148	9.134	(0.946)	256976	10.5725	10.6
41	Carbon tetrachloride	119	9.177	9.164	(0.949)	207093	9.98341	9.98
43	Benzene	78	9.386	9.387	(0.971)	711032	10.5900	10.6
44	1,2-Dichloroethane	62	9.371	9.372	(0.969)	272906	10.9386	10.9
45	Trichloroethene	95	10.085	10.086	(1.043)	194256	10.1389	10.1
46	1,2-Dichloropropane	63	10.338	10.339	(1.069)	186897	10.5741	10.6
48	Dibromomethane	93	10.471	10.473	(1.083)	129792	10.2073	10.2
49	Bromodichloromethane	83	10.620	10.607	(1.098)	269753	10.3797	10.4
51	cis-1,3-Dichloropropene	75	11.096	11.097	(1.148)	291341	10.3540	10.4
52	4-Methyl-2-pentanone	43	11.200	11.202	(1.158)	716243	52.4100	52.4
53	Toluene	92	11.498	11.499	(0.883)	429434	10.1801	10.2
54	trans-1,3-Dichloropropene	75	11.676	11.663	(0.897)	252697	10.1929	10.2
55	1,1,2-Trichloroethane	83	11.899	11.886	(0.914)	131394	10.4190	10.4
56	Tetrachloroethene	166	12.123	12.124	(0.931)	202543	9.90340	9.90
57	1,3-Dichloropropane	76	12.093	12.094	(0.929)	247863	10.6896	10.7
58	2-Hexanone	43	12.108	12.094	(0.930)	480090	52.3439	52.3
59	Dibromochloromethane	129	12.360	12.362	(0.950)	169985	10.2313	10.2
60	1,2-Dibromoethane	107	12.524	12.525	(0.962)	150884	10.0958	10.1
62	Chlorobenzene	112	13.045	13.046	(1.002)	465578	10.0953	10.1(Q)
63	1,1,1,2-Tetrachloroethane	131	13.119	13.105	(1.008)	159895	10.0670	10.1
64	Ethylbenzene	91	13.134	13.135	(1.009)	846642	10.3347	10.3
65	m-,p-Xylene	106	13.253	13.254	(1.018)	557134	20.3412	20.3
66	o-Xylene	106	13.699	13.700	(1.053)	273575	10.2340	10.2
M 67	Xylene (total)	106				830709	30.5752	30.6
68	Styrene	104	13.699	13.700	(1.053)	477557	10.2865	10.3
69	Bromoform	173	13.952	13.953	(1.072)	107797	9.55012	9.55
70	Isopropylbenzene	105	14.086	14.087	(1.082)	711561	10.0655	10.1
71	1,1,2,2-Tetrachloroethane	83	14.368	14.370	(0.921)	205450	11.0321	11.0
72	Bromobenzene	156	14.487	14.489	(0.928)	227569	9.81890	9.82
73	1,2,3-Trichloropropane	110	14.443	14.444	(0.926)	43286	10.4414	10.4(Q)
74	n-Propylbenzene	120	14.532	14.533	(0.931)	177763	10.0065	10.0
76	2-Chlorotoluene	126	14.681	14.667	(0.941)	178542	10.2680	10.3
78	1,3,5-Trimethylbenzene	105	14.696	14.697	(0.942)	624642	10.1291	10.1(M)
79	4-Chlorotoluene	126	14.785	14.786	(0.948)	181260	9.94275	9.94
80	tert-Butylbenzene	119	15.097	15.084	(0.968)	538379	10.0760	10.1
81	1,2,4-Trimethylbenzene	105	15.142	15.143	(0.970)	632949	10.3570	10.4
82	sec-Butylbenzene	105	15.335	15.337	(0.983)	768131	10.7380	10.7
83	1,3-Dichlorobenzene	146	15.529	15.530	(0.995)	400444	10.1471	10.1
84	p-Isopropyltoluene	119	15.484	15.485	(0.992)	601218	10.2261	10.2
85	1,4-Dichlorobenzene	146	15.633	15.634	(1.002)	407985	10.2421	10.2
87	n-Butylbenzene	91	16.005	15.991	(1.026)	660612	10.2046	10.2
88	1,2-Dichlorobenzene	146	16.124	16.110	(1.033)	373809	10.2850	10.3
89	1,2-Dibromo-3-chloropropane	75	17.165	17.166	(1.100)	119801	38.4480	38.4(Q)
90	1,2,4-Trichlorobenzene	180	18.578	18.564	(1.191)	243793	9.50419	9.50
91	Hexachlorobutadiene	225	18.846	18.847	(1.208)	114603	9.18890	9.19
92	Naphthalene	128	19.069	19.070	(1.222)	378451	9.74155	9.74
93	1,2,3-Trichlorobenzene	180	19.559	19.561	(1.254)	214135	9.53268	9.53

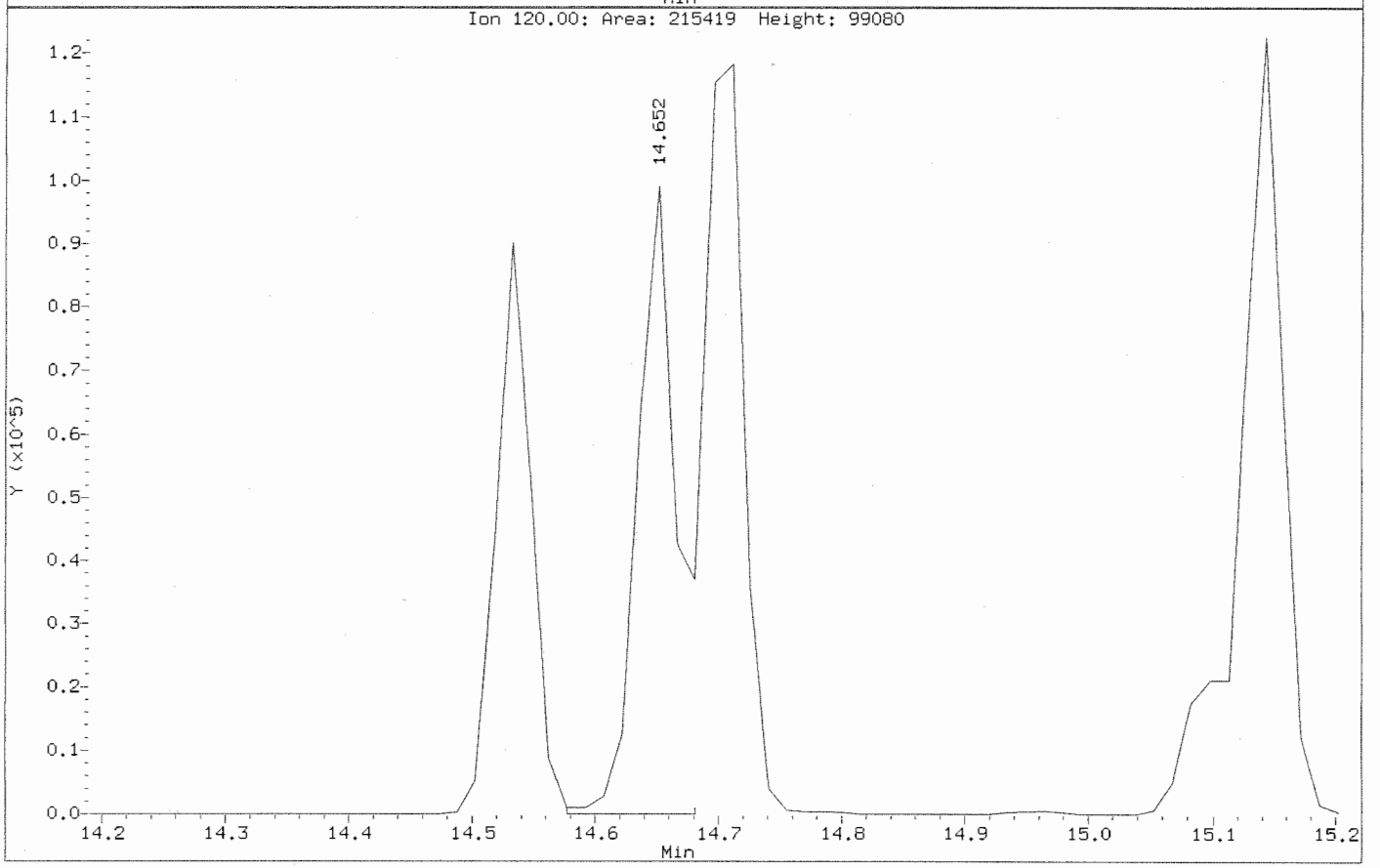
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068735.D
Injection Date: 29-DEC-2006 10:06
Instrument: MSK.i
Client Sample ID: K1229W01LCS

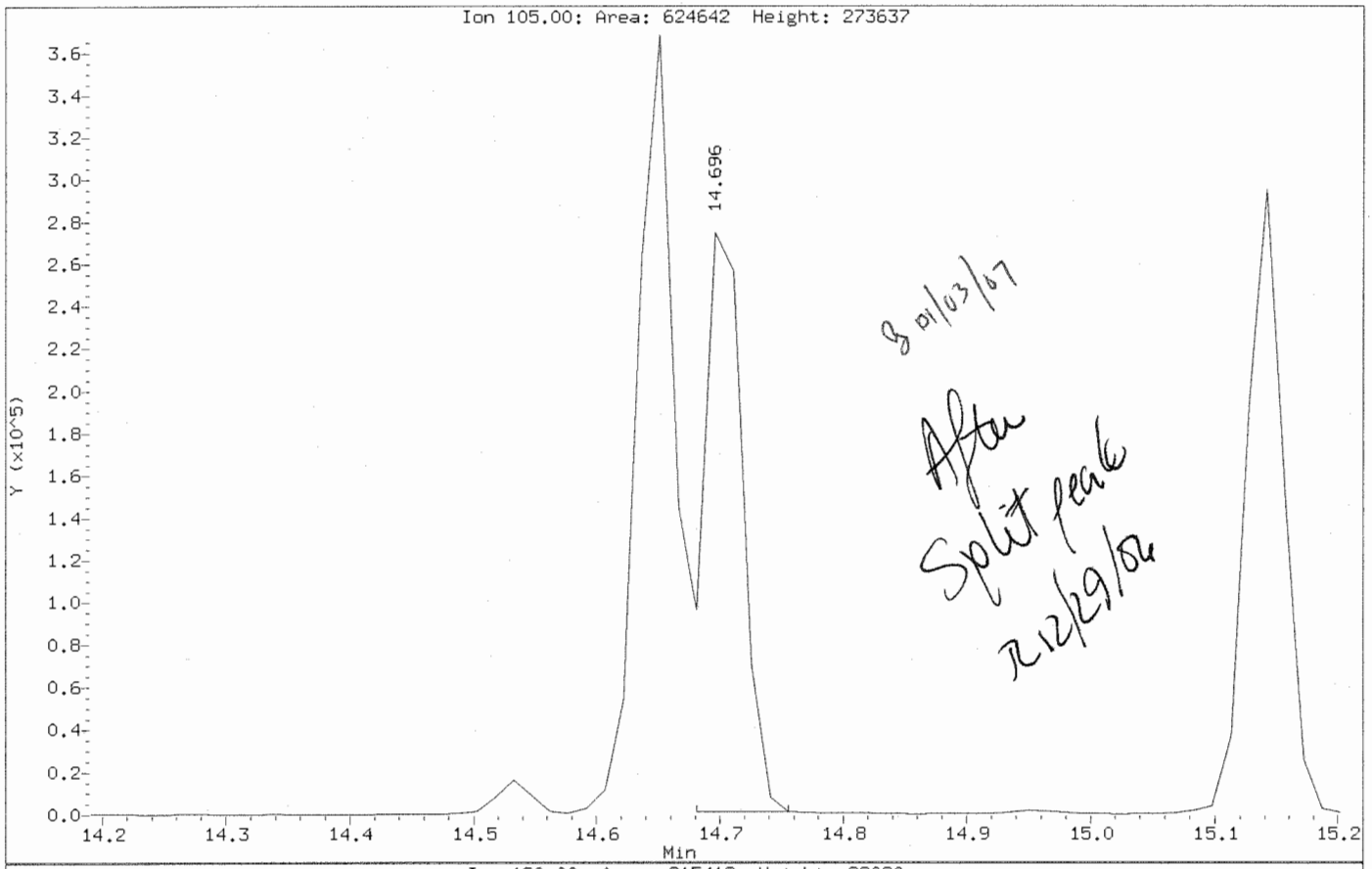
Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8

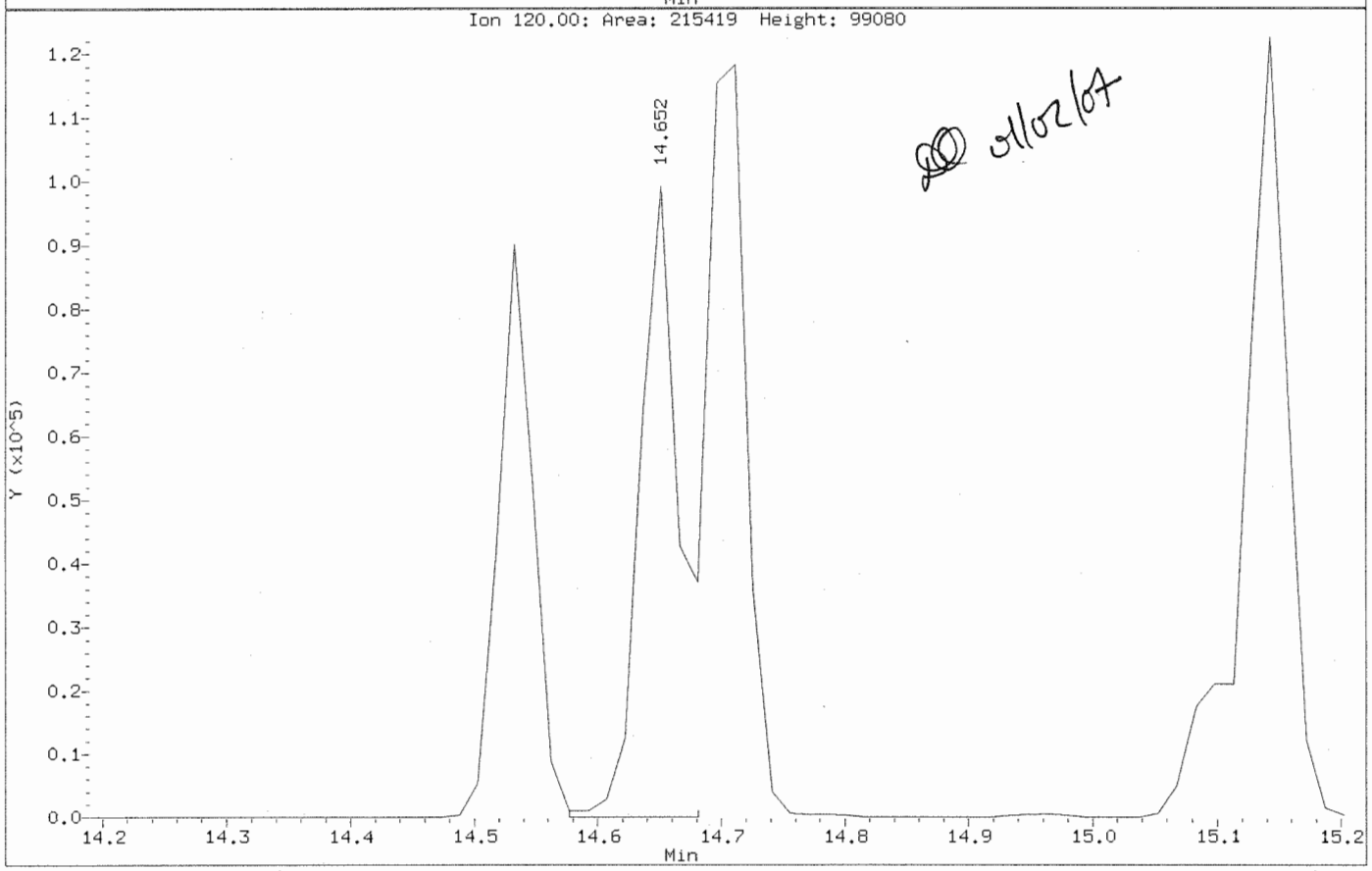




Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068735.D
Injection Date: 29-DEC-2006 10:06
Instrument: MSK.i
Client Sample ID: K1229W01LCS

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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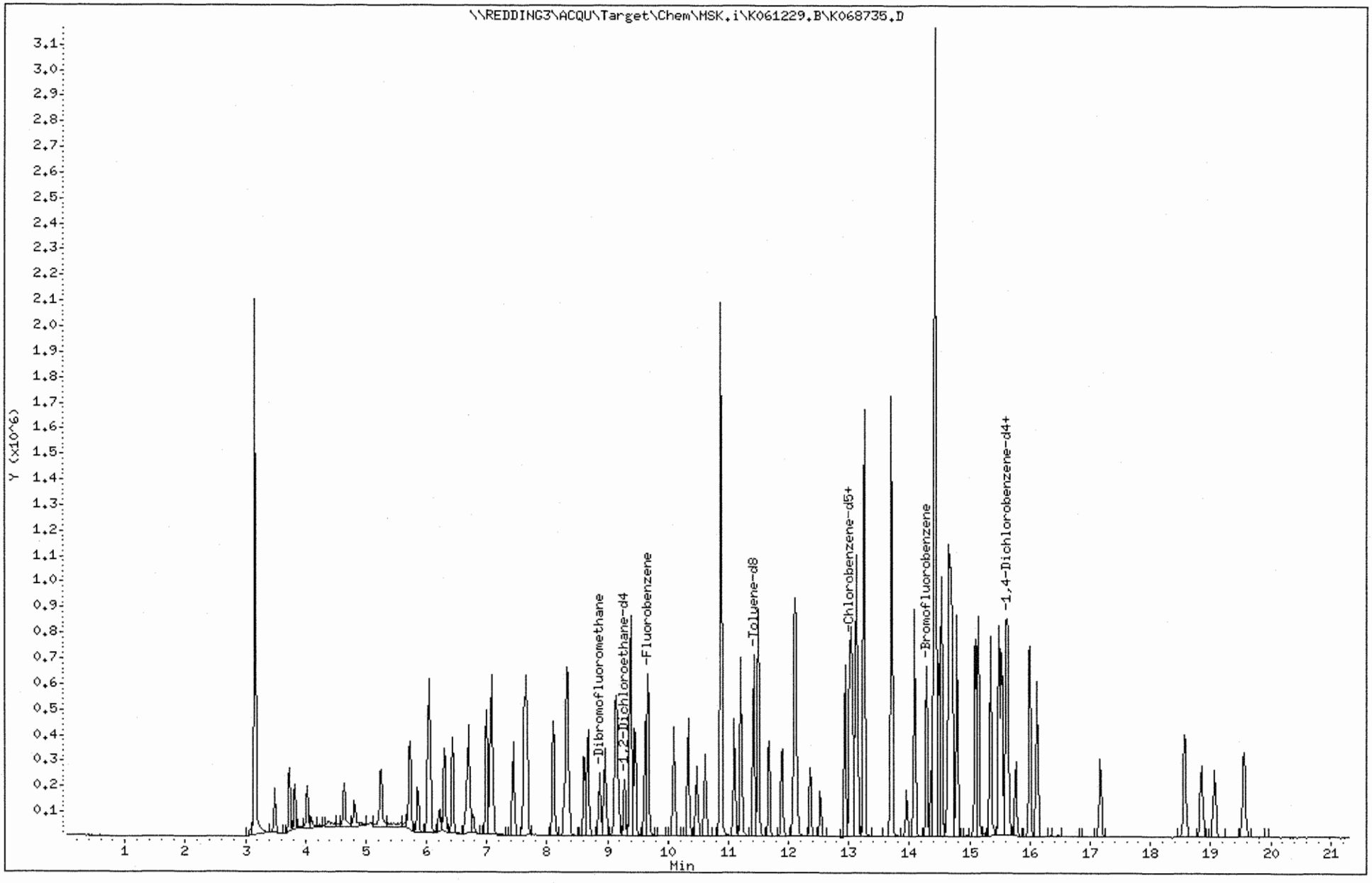
Date : 29-DEC-2006 10:06
Client ID: K1229W01LCS
Sample Info: K1229W01LCS;K1229W01LCS
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: K1229W01LCSD
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**10.4**		0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	**11.4**		0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	**11.1**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	**11.4**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	**10.4**		0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	**10.5**		0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	**10.0**		0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	**10.1**		0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**53.7**		0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	**9.85**		0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**10.5**		0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	**9.63**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	**9.96**		0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	**10.5**		0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	**10.2**		0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	**9.73**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	**9.92**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**53.9**		0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	**9.80**		0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	**9.96**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	**9.89**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	**10.3**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	**9.61**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	**10.2**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	**10.6**		0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	**9.90**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	**10.1**		0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	**10.1**		0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	**10.0**		0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	**9.88**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	**52.8**		0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	**10.2**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	**10.4**		0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	**10.8**		0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	**9.80**		0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	**11.0**		0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	**55.2**		0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	**10.4**		0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: K1229W01LCSD
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**10.4**		0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	**9.96**		0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	**10.0**		0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	**10.2**		0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	**30.3**		0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	**10.2**		0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	**9.78**		0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	**10.0**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	**11.1**		0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	**9.98**		0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	**10.5**		0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	**9.82**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	**10.0**		0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	**10.3**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	**9.76**		0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	**9.70**		0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	**9.90**		0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	**10.3**		0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	**9.90**		0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	**9.98**		0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	**10.0**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	**9.62**		0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	**10.1**		0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	**39.9**		0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	**9.11**		0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	**8.80**		0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	**9.60**		0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	**9.14**		0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	86	79-135	12/29/2006	
4-Bromofluorobenzene - SS	109	82-124	12/29/2006	
Dibromofluoromethane - SS	87	84-127	12/29/2006	
Toluene-d8 - SS	91	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068736.D
Lab Smp Id: K1229W01LCSD Client Smp ID: K1229W01LCSD
Inj Date : 29-DEC-2006 10:33
Operator : X Inst ID: MSK.i
Smp Info : K1229W01LCSD;K1229W01LCSD
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 10:45 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

dl 02/07

12/29/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	9.671	9.670	(1.000)	690131	10.0000	
*	2 Chlorobenzene-d5	117	13.018	13.016	(1.000)	464038	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.606	15.604	(1.000)	254491	10.0000	
$	4 Dibromofluoromethane	113	8.868	8.866	(0.917)	189533	8.73765	8.74
$	5 1,2-Dichloroethane-d4	65	9.285	9.283	(0.960)	195725	8.55448	8.55
$	6 Toluene-d8	98	11.412	11.425	(0.877)	541358	9.13258	9.13
$	7 Bromofluorobenzene	174	14.282	14.280	(0.915)	240228	10.8988	10.9
	8 Dichlorodifluoromethane	85	3.484	3.497	(0.360)	208321	10.4123	10.4(Q)
	10 Chloromethane	50	3.811	3.824	(0.394)	196743	11.4297	11.4
	11 Vinyl chloride	62	4.034	4.032	(0.417)	180407	11.0949	11.1
	12 Bromomethane	94	4.644	4.642	(0.480)	118941	11.3618	11.4
	13 Chloroethane	64	4.808	4.806	(0.497)	88141	10.3986	10.4
	14 Trichlorofluoromethane	101	5.239	5.252	(0.542)	261328	10.5195	10.5
	15 1,1,2-Trichlorotrifluoroethane	101	6.027	6.025	(0.623)	181822	9.99991	10.0
	17 1,1-Dichloroethene	96	6.042	6.055	(0.625)	164742	10.0698	10.1
	18 Acetone	43	6.057	6.070	(0.626)	229086	53.7113	53.7
	21 Carbon disulfide	76	6.429	6.427	(0.665)	662927	9.85244	9.85
	22 Methylene chloride	84	6.697	6.695	(0.692)	227904	10.5289	10.5
	26 trans-1,2-Dichloroethene	96	7.083	7.096	(0.732)	186096	9.62671	9.63
	27 tert-Butylmethylether	73	7.068	7.067	(0.731)	413760	9.96000	9.96(Q)
	28 1,1-Dichloroethane	63	7.619	7.617	(0.788)	367903	10.5383	10.5
	30 Vinyl acetate	43	7.619	7.632	(0.788)	690719	10.1953	10.2

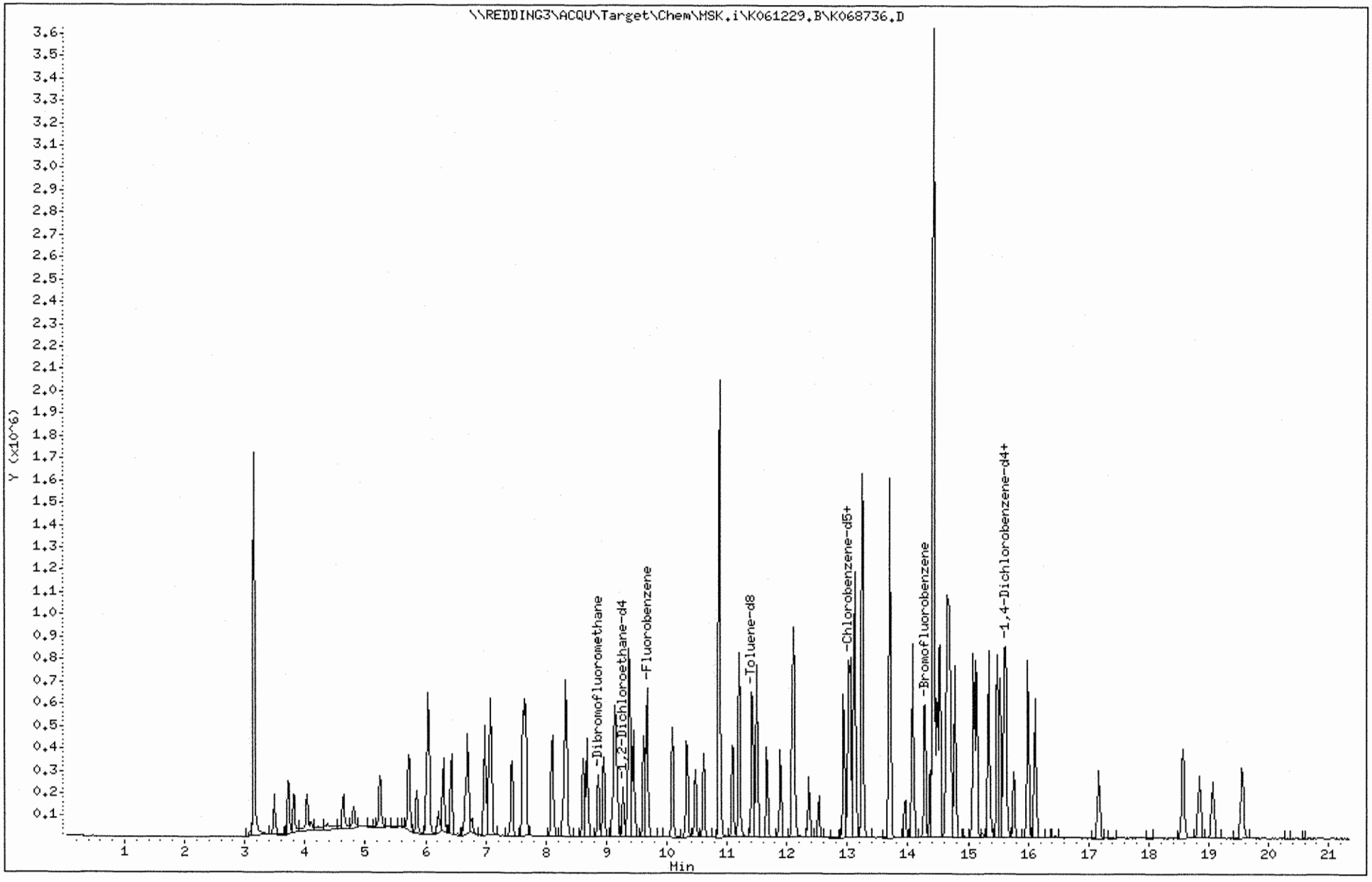
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	8.348	8.346	(0.863)	283888	9.73064	9.73(Q)
33	cis-1,2-Dichloroethene	96	8.333	8.331	(0.862)	212472	9.91804	9.92
35	2-Butanone	43	8.288	8.286	(0.857)	327531	53.9047	53.9
36	Bromochloromethane	128	8.615	8.613	(0.891)	100341	9.79684	9.80
37	Chloroform	83	8.675	8.688	(0.897)	395340	9.95659	9.96
38	1,1,1-Trichloroethane	97	8.957	8.956	(0.926)	283259	9.88932	9.89(Q)
40	1,1-Dichloropropene	75	9.136	9.134	(0.945)	264947	10.2822	10.3
41	Carbon tetrachloride	119	9.166	9.164	(0.948)	211360	9.61120	9.61
43	Benzene	78	9.389	9.387	(0.971)	723691	10.1672	10.2
44	1,2-Dichloroethane	62	9.359	9.372	(0.968)	279482	10.5668	10.6
45	Trichloroethene	95	10.088	10.086	(1.043)	201291	9.90381	9.90
46	1,2-Dichloropropane	63	10.326	10.339	(1.068)	189296	10.1024	10.1
48	Dibromomethane	93	10.475	10.473	(1.083)	136277	10.1094	10.1
49	Bromodichloromethane	83	10.608	10.607	(1.097)	276049	10.0195	10.0
51	cis-1,3-Dichloropropene	75	11.099	11.097	(1.148)	294760	9.88131	9.88
52	4-Methyl-2-pentanone	43	11.203	11.202	(1.158)	765384	52.8293	52.8
53	Toluene	92	11.501	11.499	(0.883)	431174	10.1766	10.2
54	trans-1,3-Dichloropropene	75	11.664	11.663	(0.896)	259531	10.4228	10.4
55	1,1,2-Trichloroethane	83	11.888	11.886	(0.913)	137366	10.8449	10.8
56	Tetrachloroethene	166	12.126	12.124	(0.931)	201312	9.80013	9.80
57	1,3-Dichloropropane	76	12.081	12.094	(0.928)	256911	11.0313	11.0
58	2-Hexanone	43	12.096	12.094	(0.929)	508190	55.1651	55.2
59	Dibromochloromethane	129	12.364	12.362	(0.950)	172727	10.3508	10.4
60	1,2-Dibromoethane	107	12.527	12.525	(0.962)	156090	10.3984	10.4
62	Chlorobenzene	112	13.048	13.046	(1.002)	461283	9.95844	9.96(Q)
63	1,1,1,2-Tetrachloroethane	131	13.107	13.105	(1.007)	159909	10.0238	10.0
64	Ethylbenzene	91	13.122	13.135	(1.008)	838904	10.1954	10.2
65	m-,p-Xylene	106	13.241	13.254	(1.017)	553587	20.1232	20.1
66	o-Xylene	106	13.702	13.700	(1.053)	272957	10.1662	10.2
M 67	Xylene (total)	106				826544	30.2894	30.3
68	Styrene	104	13.702	13.700	(1.053)	476133	10.2109	10.2
69	Bromoform	173	13.955	13.953	(1.072)	110824	9.77532	9.78
70	Isopropylbenzene	105	14.074	14.087	(1.081)	712952	10.0410	10.0
71	1,1,2,2-Tetrachloroethane	83	14.357	14.370	(0.920)	207337	11.0800	11.1
72	Bromobenzene	156	14.491	14.489	(0.929)	232439	9.98095	9.98
73	1,2,3-Trichloropropane	110	14.446	14.444	(0.926)	43851	10.5270	10.5(Q)
74	n-Propylbenzene	120	14.535	14.533	(0.931)	175318	9.82152	9.82
76	2-Chlorotoluene	126	14.669	14.667	(0.940)	175314	10.0340	10.0
78	1,3,5-Trimethylbenzene	105	14.699	14.697	(0.942)	641157	10.3470	10.3(Q)
79	4-Chlorotoluene	126	14.788	14.786	(0.948)	178719	9.75637	9.76
80	tert-Butylbenzene	119	15.085	15.084	(0.967)	520820	9.70067	9.70
81	1,2,4-Trimethylbenzene	105	15.130	15.143	(0.970)	608157	9.90360	9.90
82	sec-Butylbenzene	105	15.338	15.337	(0.983)	743302	10.3411	10.3
83	1,3-Dichlorobenzene	146	15.532	15.530	(0.995)	392674	9.90252	9.90
84	p-Isopropyltoluene	119	15.487	15.485	(0.992)	589838	9.98447	9.98
85	1,4-Dichlorobenzene	146	15.636	15.634	(1.002)	402158	10.0474	10.0
87	n-Butylbenzene	91	15.993	15.991	(1.025)	625599	9.61739	9.62
88	1,2-Dichlorobenzene	146	16.112	16.110	(1.032)	367526	10.0636	10.1
89	1,2-Dibromo-3-chloropropane	75	17.168	17.166	(1.100)	124846	39.8751	39.9(Q)
90	1,2,4-Trichlorobenzene	180	18.566	18.564	(1.190)	234707	9.10611	9.11
91	Hexachlorobutadiene	225	18.849	18.847	(1.208)	110294	8.80101	8.80
92	Naphthalene	128	19.057	19.070	(1.221)	374957	9.60534	9.60
93	1,2,3-Trichlorobenzene	180	19.563	19.561	(1.254)	206259	9.13805	9.14

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068736.D
Date : 29-DEC-2006 10:33
Client ID: K1229W01LCSD
Sample Info: K1229W01LCSD;K1229W01LCSD
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



SUPPORT DOCUMENTATION

Columbia Analytical Services

GC/MS VOA Injection Log

MSK; Karl

Date
12/27/06

Analyst: TR
ICAL Date/Time: 12/27/06
Method: SW846 8260B

Internal Standard Std Prep # 9MSV-33-3
BFB / Surrogate Std Prep # 9MSV-34-1
Calibration Std Prep # 9MSV-34-2A
QCALTSTD / LCS Std Prep # 9MSV-34-3A
MS/MSD Std Prep # ↓

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
1058	K061653	BFB	NA	WA	NA	NA	NA	NA	✓	✓	
—	54	Wash							—	—	
1153	55	VSTD00.3							✓	✓	
1220	56	VSTD00.5							✓	✓	
1246	57	VSTD001							✓	✓	
1313	58	VSTD002							✓	✓	
1340	59	VSTD01D							✓	✓	
1407	60	VSTD020							✓	✓	
1433	61	VSTD040							✓	✓	
1500	62	VSTD100							✓	✓	
1526	63	QCALTSTD							✓	✓	
~~1620~~ 12/28/06	1553	64	QCALTSTD						✓	N	not needed
1444	1620	65	K122711001LCS						✓	✓	
1446		66	K122711001LCSD						✓	✓	
—		67	Wash						—	—	
—		68	Wash						—	—	
1806		69	K122711001	↓		↓	↓		✓	✓	
1833		70	DC62119-001	.01		<2	1x		✓	✓	LB+D 47197 MDL
1859		71	-001MS	.01		<2	1x		✓	N	not requested
1926		72	-001MSD	.01	↓	<2	1x	↓	✓	N	↓ ↓
		73 TR 12/27/06									
											TR 12/27/06

Last Analysis within 12-Hour clock? ☒ Yes ☐ No

CCV Used? ☐ #3 ☐ #4

MS/MSD present? ☒ Yes ☐ No

Columbia Analytical Services

GC/MS VOA Injection Log

MSK; Karl

Date
12/29/06

Analyst: R
ICAL Date/Time: 12/27/06
Method: SW846 8260

Internal Standard Std Prep # 9mav-33-3
BFB / Surrogate Std Prep # 9mav-34-1
Calibration Std Prep # 9mav-34-2A
QCALTSTD / LCS Std Prep # 9mav-34-3A
MS/MSD Std Prep # ↓

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
0848	K068732	BFB	NA	WA	NA	NA	NA	NA	✓	✓	
0912	33	VSTOOAD							✓	N	VSO2nd
0939	34	VSTOO10							✓	✓	
1006	35	K1229W01LCS							✓	✓	
1033	36	K1229W01LCSD							✓	✓	
—	37	Wash							—		
1126	38	K1229W01							✓	✓	
1153	39	D0602139-001	.02		<2	1x			✓	✓	TDX 2J1063
1220	40	-005	.02		<2	1x			✓	✓	
1247	41	-002	.04		<2	10x			✓	N	rerun@1x
1313	42	-002DL	.04		<2	100x			✓	N	not needed
1340	43	-006	.01		<2	10x			✓	N	rerun@1x
1407	44	-006DL	.01		<2	100x			✓	N	not needed
1433	45	-003	.01		<2	1x			✓	✓	
1500	46	-003	.01		<2	10x			✓	N	not needed
1527	47	-003	.01		<2	100x			✓	N	↓
1554	48	-004	.01		<2	1x			✓	✓	
1621	49	-004	.01		<2	10x			✓	N	not needed
1647	50	-004	.01		<2	100x			✓	N	↓
1714	51	-007	.02		<2	1x			✓	✓	
1740	52	-007	.02		<2	10x			✓	N	not needed
1807	53	-007	.02		<2	100x			✓	N	↓
1833	54	-008	.01		<2	1x			✓	✓	
1900	55	-008	.01		<2	10x			✓	N	not needed
1926	56	-008	.01		<2	100x			✓	N	↓
2016	57	-008 ms	.02		<2	1x			✓	N	not requested
2113	58	-008 msd	.02	↓	<2	1x	↓	↓	✓	N	↓ out of clock
—	L6139-L2	Wash	NA	WA	NA	NA	NA	NA	—	—	
1953	59	D0602139-002	.02	↓	<2 ~~DNA~~	1x	↓	↓	✓	✓	
2019	L60	-006	.02	↓	<2 ↓ 12/29/06	1x	↓	↓	✓	✓	R 12/29/06

Last Analysis within 12-Hour clock? ~~☒~~ Yes ☒ No ~~need~~ not requested CCV Used? ☒ #3 ☐ #4 MS/MSD present? ☒ Yes ☐ No

GC/MS SEMIVOLATILE ORGANICS

Client: GeoSyntec Consultants **Service Request:** D0602139
Project: TDY/SC0307

Cover Page - Organic Analysis Data Package
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name	Lab Code	Date Collected	Date Received
T-54-GW-11	D0602139-002	12/20/2006	12/22/2006
T-54-GW-40	D0602139-003	12/20/2006	12/22/2006
T-54-GW-65	D0602139-004	12/20/2006	12/22/2006
T-55-GW-11	D0602139-006	12/20/2006	12/22/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Gina Johnson Name: Gina Johnson

Date: 1/3/07 Title: Chemist

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-54-GW-11
Lab Code: D0602139-002

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	48	2.0	10	12/26/06	12/29/06	DWG0700103	
1,2-Dichlorobenzene	ND	U	48	1.7	10	12/26/06	12/29/06	DWG0700103	
1,3-Dichlorobenzene	ND	U	48	2.0	10	12/26/06	12/29/06	DWG0700103	
1,4-Dichlorobenzene	ND	U	48	2.4	10	12/26/06	12/29/06	DWG0700103	
1,4-Dioxane	ND	U	20	4.1	10	12/26/06	12/29/06	DWG0700103	
2,4,5-Trichlorophenol	ND	U	48	2.8	10	12/26/06	12/29/06	DWG0700103	
2,4,6-Trichlorophenol	ND	U	48	2.7	10	12/26/06	12/29/06	DWG0700103	
2,4-Dichlorophenol	ND	U	48	2.3	10	12/26/06	12/29/06	DWG0700103	
2,4-Dimethylphenol	ND	U	96	8.3	10	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrophenol	ND	U	480	100	10	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrotoluene	ND	U	20	3.0	10	12/26/06	12/29/06	DWG0700103	
2,6-Dinitrotoluene	ND	U	48	3.0	10	12/26/06	12/29/06	DWG0700103	
2-Chloronaphthalene	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
2-Chlorophenol	ND	U	48	2.4	10	12/26/06	12/29/06	DWG0700103	
2-Methyl-4,6-dinitrophenol	ND	U	200	2.0	10	12/26/06	12/29/06	DWG0700103	
2-Methylnaphthalene	ND	U	48	1.8	10	12/26/06	12/29/06	DWG0700103	
2-Methylphenol	ND	U	48	3.2	10	12/26/06	12/29/06	DWG0700103	
2-Nitroaniline	ND	U	200	2.7	10	12/26/06	12/29/06	DWG0700103	
2-Nitrophenol	ND	U	48	2.6	10	12/26/06	12/29/06	DWG0700103	
3,3'-Dichlorobenzidine	ND	U	200	8.4	10	12/26/06	12/29/06	DWG0700103	
3-Nitroaniline	ND	U	200	2.9	10	12/26/06	12/29/06	DWG0700103	
4-Bromophenyl Phenyl Ether	ND	U	48	1.8	10	12/26/06	12/29/06	DWG0700103	
4-Chloro-3-methylphenol	ND	U	48	3.2	10	12/26/06	12/29/06	DWG0700103	
4-Chloroaniline	ND	U	48	3.6	10	12/26/06	12/29/06	DWG0700103	
4-Chlorophenyl Phenyl Ether	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
4-Methylphenol	ND	U	48	2.8	10	12/26/06	12/29/06	DWG0700103	
4-Nitroaniline	ND	U	200	3.6	10	12/26/06	12/29/06	DWG0700103	
4-Nitrophenol	ND	U	480	200	10	12/26/06	12/29/06	DWG0700103	
Acenaphthene	ND	U	48	1.5	10	12/26/06	12/29/06	DWG0700103	
Acenaphthylene	ND	U	48	2.3	10	12/26/06	12/29/06	DWG0700103	
Aniline	ND	U	48	3.4	10	12/26/06	12/29/06	DWG0700103	
Anthracene	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
Benz(a)anthracene	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
Benzo(a)pyrene	ND	U	48	5.4	10	12/26/06	12/29/06	DWG0700103	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-54-GW-11
Lab Code: D0602139-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	48	4.2	10	12/26/06	12/29/06	DWG0700103	
Benzo(g,h,i)perylene	ND	U	48	7.4	10	12/26/06	12/29/06	DWG0700103	
Benzo(k)fluoranthene	ND	U	48	3.2	10	12/26/06	12/29/06	DWG0700103	
Benzoic acid	ND	U	480	200	10	12/26/06	12/29/06	DWG0700103	
Benzyl alcohol	ND	U	96	2.2	10	12/26/06	12/29/06	DWG0700103	
bis(2-Chloroethoxy)methane	ND	U	48	3.2	10	12/26/06	12/29/06	DWG0700103	
Bis(2-chloroethyl) Ether	ND	U	48	2.4	10	12/26/06	12/29/06	DWG0700103	
Bis(2-Chloroisopropyl)ether	ND	U	48	2.4	10	12/26/06	12/29/06	DWG0700103	
Bis(2-ethylhexyl) Phthalate	ND	U	48	3.0	10	12/26/06	12/29/06	DWG0700103	
Butyl Benzyl Phthalate	ND	U	48	4.8	10	12/26/06	12/29/06	DWG0700103	
Chrysene	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
Di-n-butyl Phthalate	ND	U	48	2.5	10	12/26/06	12/29/06	DWG0700103	
Di-n-octyl Phthalate	ND	U	48	3.3	10	12/26/06	12/29/06	DWG0700103	
Dibenz(a,h)anthracene	ND	U	48	6.2	10	12/26/06	12/29/06	DWG0700103	
Dibenzofuran	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
Diethyl Phthalate	ND	U	48	2.8	10	12/26/06	12/29/06	DWG0700103	
Dimethyl Phthalate	ND	U	48	2.6	10	12/26/06	12/29/06	DWG0700103	
Fluoranthene	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
Fluorene	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
Hexachlorobenzene	ND	U	20	2.1	10	12/26/06	12/29/06	DWG0700103	
Hexachlorobutadiene	ND	U	96	2.2	10	12/26/06	12/29/06	DWG0700103	
Hexachlorocyclopentadiene	ND	U	96	18	10	12/26/06	12/29/06	DWG0700103	
Hexachloroethane	ND	U	96	25	10	12/26/06	12/29/06	DWG0700103	
Indeno(1,2,3-cd)pyrene	ND	U	48	6.5	10	12/26/06	12/29/06	DWG0700103	
Isophorone	ND	U	48	3.0	10	12/26/06	12/29/06	DWG0700103	
N-Nitrosodi-n-propylamine	ND	U	48	2.8	10	12/26/06	12/29/06	DWG0700103	
N-Nitrosodimethylamine	ND	U	48	4.8	10	12/26/06	12/29/06	DWG0700103	
N-Nitrosodiphenylamine	ND	U	48	2.3	10	12/26/06	12/29/06	DWG0700103	
Naphthalene	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
Nitrobenzene	ND	U	48	2.6	10	12/26/06	12/29/06	DWG0700103	
Pentachlorophenol	ND	U	290	6.3	10	12/26/06	12/29/06	DWG0700103	
Phenanthrene	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
Phenol	ND	U	48	1.1	10	12/26/06	12/29/06	DWG0700103	
Pyrene	ND	U	48	3.3	10	12/26/06	12/29/06	DWG0700103	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-54-GW-11
Lab Code: D0602139-002

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	96	3.3	10	12/26/06	12/29/06	DWG0700103	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	68	31-112	12/29/06	Acceptable
2-Fluorobiphenyl	74	47-110	12/29/06	Acceptable
2-Fluorophenol	86	23-115	12/29/06	Acceptable
Nitrobenzene-d5	99	42-122	12/29/06	Acceptable
Phenol-d5	85	23-121	12/29/06	Acceptable
Terphenyl-d14	37	37-130	12/29/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-54-GW-40
Lab Code: D0602139-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	12/26/06	12/29/06	DWG0700103	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	12/26/06	12/29/06	DWG0700103	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	12/26/06	12/29/06	DWG0700103	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	12/26/06	12/29/06	DWG0700103	
1,4-Dioxane	ND	U	2.0	0.41	1	12/26/06	12/29/06	DWG0700103	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	12/26/06	12/29/06	DWG0700103	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	12/26/06	12/29/06	DWG0700103	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	12/26/06	12/29/06	DWG0700103	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrophenol	ND	U	48	10	1	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	12/26/06	12/29/06	DWG0700103	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	12/26/06	12/29/06	DWG0700103	
2-Chloronaphthalene	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
2-Chlorophenol	ND	U	4.8	0.24	1	12/26/06	12/29/06	DWG0700103	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	12/26/06	12/29/06	DWG0700103	
2-Methylnaphthalene	ND	U	4.8	0.18	1	12/26/06	12/29/06	DWG0700103	
2-Methylphenol	ND	U	4.8	0.32	1	12/26/06	12/29/06	DWG0700103	
2-Nitroaniline	ND	U	20	0.27	1	12/26/06	12/29/06	DWG0700103	
2-Nitrophenol	ND	U	4.8	0.26	1	12/26/06	12/29/06	DWG0700103	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	12/26/06	12/29/06	DWG0700103	
3-Nitroaniline	ND	U	20	0.29	1	12/26/06	12/29/06	DWG0700103	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	12/26/06	12/29/06	DWG0700103	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	12/26/06	12/29/06	DWG0700103	
4-Chloroaniline	ND	U	4.8	0.36	1	12/26/06	12/29/06	DWG0700103	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
4-Methylphenol	ND	U	4.8	0.28	1	12/26/06	12/29/06	DWG0700103	
4-Nitroaniline	ND	U	20	0.36	1	12/26/06	12/29/06	DWG0700103	
4-Nitrophenol	ND	U	48	20	1	12/26/06	12/29/06	DWG0700103	
Acenaphthene	ND	U	4.8	0.15	1	12/26/06	12/29/06	DWG0700103	
Acenaphthylene	ND	U	4.8	0.23	1	12/26/06	12/29/06	DWG0700103	
Aniline	ND	U	4.8	0.34	1	12/26/06	12/29/06	DWG0700103	
Anthracene	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
Benz(a)anthracene	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
Benzo(a)pyrene	ND	U	4.8	0.54	1	12/26/06	12/29/06	DWG0700103	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-54-GW-40
Lab Code: D0602139-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	12/26/06	12/29/06	DWG0700103	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	12/26/06	12/29/06	DWG0700103	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	12/26/06	12/29/06	DWG0700103	
Benzoic acid	ND	U	48	20	1	12/26/06	12/29/06	DWG0700103	
Benzyl alcohol	ND	U	9.6	0.22	1	12/26/06	12/29/06	DWG0700103	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	12/26/06	12/29/06	DWG0700103	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	12/26/06	12/29/06	DWG0700103	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	12/26/06	12/29/06	DWG0700103	
Bis(2-ethylhexyl) Phthalate	**3.1**	J	4.8	0.30	1	12/26/06	12/29/06	DWG0700103	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	12/26/06	12/29/06	DWG0700103	
Chrysene	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
Di-n-butyl Phthalate	ND	U	4.8	0.25	1	12/26/06	12/29/06	DWG0700103	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	12/26/06	12/29/06	DWG0700103	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	12/26/06	12/29/06	DWG0700103	
Dibenzofuran	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
Diethyl Phthalate	ND	U	4.8	0.28	1	12/26/06	12/29/06	DWG0700103	
Dimethyl Phthalate	ND	U	4.8	0.26	1	12/26/06	12/29/06	DWG0700103	
Fluoranthene	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
Fluorene	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
Hexachlorobenzene	ND	U	2.0	0.21	1	12/26/06	12/29/06	DWG0700103	
Hexachlorobutadiene	ND	U	9.6	0.22	1	12/26/06	12/29/06	DWG0700103	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	12/26/06	12/29/06	DWG0700103	
Hexachloroethane	ND	U	9.6	2.5	1	12/26/06	12/29/06	DWG0700103	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	12/26/06	12/29/06	DWG0700103	
Isophorone	ND	U	4.8	0.30	1	12/26/06	12/29/06	DWG0700103	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	12/26/06	12/29/06	DWG0700103	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	12/26/06	12/29/06	DWG0700103	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	12/26/06	12/29/06	DWG0700103	
Naphthalene	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
Nitrobenzene	ND	U	4.8	0.26	1	12/26/06	12/29/06	DWG0700103	
Pentachlorophenol	ND	U	29	0.63	1	12/26/06	12/29/06	DWG0700103	
Phenanthrene	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
Phenol	ND	U	4.8	0.11	1	12/26/06	12/29/06	DWG0700103	
Pyrene	ND	U	4.8	0.33	1	12/26/06	12/29/06	DWG0700103	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Collected:**	12/20/2006
Sample Matrix:	Water	**Date Received:**	12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-54-GW-40	**Units:**	ug/L
Lab Code:	D0602139-003	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	12/26/06	12/29/06	DWG0700103	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	86	31-112	12/29/06	Acceptable
2-Fluorobiphenyl	95	47-110	12/29/06	Acceptable
2-Fluorophenol	84	23-115	12/29/06	Acceptable
Nitrobenzene-d5	100	42-122	12/29/06	Acceptable
Phenol-d5	88	23-121	12/29/06	Acceptable
Terphenyl-d14	47	37-130	12/29/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Collected:**	12/20/2006
Sample Matrix:	Water	**Date Received:**	12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-54-GW-65	**Units:**	ug/L
Lab Code:	D0602139-004	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	12/26/06	12/29/06	DWG0700103	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	12/26/06	12/29/06	DWG0700103	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	12/26/06	12/29/06	DWG0700103	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	12/26/06	12/29/06	DWG0700103	
1,4-Dioxane	**0.70**	J	2.0	0.41	1	12/26/06	12/29/06	DWG0700103	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	12/26/06	12/29/06	DWG0700103	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	12/26/06	12/29/06	DWG0700103	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	12/26/06	12/29/06	DWG0700103	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrophenol	ND	U	48	10	1	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	12/26/06	12/29/06	DWG0700103	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	12/26/06	12/29/06	DWG0700103	
2-Chloronaphthalene	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
2-Chlorophenol	ND	U	4.8	0.24	1	12/26/06	12/29/06	DWG0700103	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	12/26/06	12/29/06	DWG0700103	
2-Methylnaphthalene	ND	U	4.8	0.18	1	12/26/06	12/29/06	DWG0700103	
2-Methylphenol	ND	U	4.8	0.32	1	12/26/06	12/29/06	DWG0700103	
2-Nitroaniline	ND	U	20	0.27	1	12/26/06	12/29/06	DWG0700103	
2-Nitrophenol	ND	U	4.8	0.26	1	12/26/06	12/29/06	DWG0700103	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	12/26/06	12/29/06	DWG0700103	
3-Nitroaniline	ND	U	20	0.29	1	12/26/06	12/29/06	DWG0700103	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	12/26/06	12/29/06	DWG0700103	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	12/26/06	12/29/06	DWG0700103	
4-Chloroaniline	ND	U	4.8	0.36	1	12/26/06	12/29/06	DWG0700103	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
4-Methylphenol	ND	U	4.8	0.28	1	12/26/06	12/29/06	DWG0700103	
4-Nitroaniline	ND	U	20	0.36	1	12/26/06	12/29/06	DWG0700103	
4-Nitrophenol	ND	U	48	20	1	12/26/06	12/29/06	DWG0700103	
Acenaphthene	ND	U	4.8	0.15	1	12/26/06	12/29/06	DWG0700103	
Acenaphthylene	ND	U	4.8	0.23	1	12/26/06	12/29/06	DWG0700103	
Aniline	ND	U	4.8	0.34	1	12/26/06	12/29/06	DWG0700103	
Anthracene	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
Benz(a)anthracene	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
Benzo(a)pyrene	ND	U	4.8	0.54	1	12/26/06	12/29/06	DWG0700103	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-54-GW-65
Lab Code: D0602139-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	12/26/06	12/29/06	DWG0700103	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	12/26/06	12/29/06	DWG0700103	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	12/26/06	12/29/06	DWG0700103	
Benzoic acid	ND	U	48	20	1	12/26/06	12/29/06	DWG0700103	
Benzyl alcohol	ND	U	9.6	0.22	1	12/26/06	12/29/06	DWG0700103	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	12/26/06	12/29/06	DWG0700103	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	12/26/06	12/29/06	DWG0700103	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	12/26/06	12/29/06	DWG0700103	
Bis(2-ethylhexyl) Phthalate	**0.51**	J	4.8	0.30	1	12/26/06	12/29/06	DWG0700103	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	12/26/06	12/29/06	DWG0700103	
Chrysene	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
Di-n-butyl Phthalate	**0.26**	J	4.8	0.25	1	12/26/06	12/29/06	DWG0700103	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	12/26/06	12/29/06	DWG0700103	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	12/26/06	12/29/06	DWG0700103	
Dibenzofuran	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
Diethyl Phthalate	ND	U	4.8	0.28	1	12/26/06	12/29/06	DWG0700103	
Dimethyl Phthalate	ND	U	4.8	0.26	1	12/26/06	12/29/06	DWG0700103	
Fluoranthene	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
Fluorene	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
Hexachlorobenzene	ND	U	2.0	0.21	1	12/26/06	12/29/06	DWG0700103	
Hexachlorobutadiene	ND	U	9.6	0.22	1	12/26/06	12/29/06	DWG0700103	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	12/26/06	12/29/06	DWG0700103	
Hexachloroethane	ND	U	9.6	2.5	1	12/26/06	12/29/06	DWG0700103	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	12/26/06	12/29/06	DWG0700103	
Isophorone	ND	U	4.8	0.30	1	12/26/06	12/29/06	DWG0700103	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	12/26/06	12/29/06	DWG0700103	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	12/26/06	12/29/06	DWG0700103	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	12/26/06	12/29/06	DWG0700103	
Naphthalene	ND	U	4.8	0.21	1	12/26/06	12/29/06	DWG0700103	
Nitrobenzene	ND	U	4.8	0.26	1	12/26/06	12/29/06	DWG0700103	
Pentachlorophenol	ND	U	29	0.63	1	12/26/06	12/29/06	DWG0700103	
Phenanthrene	ND	U	4.8	0.22	1	12/26/06	12/29/06	DWG0700103	
Phenol	**1.0**	J	4.8	0.11	1	12/26/06	12/29/06	DWG0700103	
Pyrene	ND	U	4.8	0.33	1	12/26/06	12/29/06	DWG0700103	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-54-GW-65
Lab Code: D0602139-004

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	12/26/06	12/29/06	DWG0700103	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	86	31-112	12/29/06	Acceptable
2-Fluorobiphenyl	91	47-110	12/29/06	Acceptable
2-Fluorophenol	81	23-115	12/29/06	Acceptable
Nitrobenzene-d5	97	42-122	12/29/06	Acceptable
Phenol-d5	87	23-121	12/29/06	Acceptable
Terphenyl-d14	28	37-130	12/29/06	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Collected:**	12/20/2006
Sample Matrix:	Water	**Date Received:**	12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-55-GW-11	**Units:**	ug/L
Lab Code:	D0602139-006	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	48	2.0	10	12/26/06	12/29/06	DWG0700103	
1,2-Dichlorobenzene	ND	U	48	1.7	10	12/26/06	12/29/06	DWG0700103	
1,3-Dichlorobenzene	ND	U	48	2.0	10	12/26/06	12/29/06	DWG0700103	
1,4-Dichlorobenzene	ND	U	48	2.4	10	12/26/06	12/29/06	DWG0700103	
1,4-Dioxane	ND	U	20	4.1	10	12/26/06	12/29/06	DWG0700103	
2,4,5-Trichlorophenol	ND	U	48	2.8	10	12/26/06	12/29/06	DWG0700103	
2,4,6-Trichlorophenol	ND	U	48	2.7	10	12/26/06	12/29/06	DWG0700103	
2,4-Dichlorophenol	ND	U	48	2.3	10	12/26/06	12/29/06	DWG0700103	
2,4-Dimethylphenol	ND	U	96	8.3	10	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrophenol	ND	U	480	100	10	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrotoluene	ND	U	20	3.0	10	12/26/06	12/29/06	DWG0700103	
2,6-Dinitrotoluene	ND	U	48	3.0	10	12/26/06	12/29/06	DWG0700103	
2-Chloronaphthalene	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
2-Chlorophenol	ND	U	48	2.4	10	12/26/06	12/29/06	DWG0700103	
2-Methyl-4,6-dinitrophenol	ND	U	200	2.0	10	12/26/06	12/29/06	DWG0700103	
2-Methylnaphthalene	ND	U	48	1.8	10	12/26/06	12/29/06	DWG0700103	
2-Methylphenol	ND	U	48	3.2	10	12/26/06	12/29/06	DWG0700103	
2-Nitroaniline	ND	U	200	2.7	10	12/26/06	12/29/06	DWG0700103	
2-Nitrophenol	ND	U	48	2.6	10	12/26/06	12/29/06	DWG0700103	
3,3'-Dichlorobenzidine	ND	U	200	8.4	10	12/26/06	12/29/06	DWG0700103	
3-Nitroaniline	ND	U	200	2.9	10	12/26/06	12/29/06	DWG0700103	
4-Bromophenyl Phenyl Ether	ND	U	48	1.8	10	12/26/06	12/29/06	DWG0700103	
4-Chloro-3-methylphenol	ND	U	48	3.2	10	12/26/06	12/29/06	DWG0700103	
4-Chloroaniline	ND	U	48	3.6	10	12/26/06	12/29/06	DWG0700103	
4-Chlorophenyl Phenyl Ether	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
4-Methylphenol	ND	U	48	2.8	10	12/26/06	12/29/06	DWG0700103	
4-Nitroaniline	ND	U	200	3.6	10	12/26/06	12/29/06	DWG0700103	
4-Nitrophenol	ND	U	480	200	10	12/26/06	12/29/06	DWG0700103	
Acenaphthene	ND	U	48	1.5	10	12/26/06	12/29/06	DWG0700103	
Acenaphthylene	ND	U	48	2.3	10	12/26/06	12/29/06	DWG0700103	
Aniline	ND	U	48	3.4	10	12/26/06	12/29/06	DWG0700103	
Anthracene	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
Benz(a)anthracene	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
Benzo(a)pyrene	ND	U	48	5.4	10	12/26/06	12/29/06	DWG0700103	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-55-GW-11
Lab Code: D0602139-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	48	4.2	10	12/26/06	12/29/06	DWG0700103	
Benzo(g,h,i)perylene	ND	U	48	7.4	10	12/26/06	12/29/06	DWG0700103	
Benzo(k)fluoranthene	ND	U	48	3.2	10	12/26/06	12/29/06	DWG0700103	
Benzoic acid	ND	U	480	200	10	12/26/06	12/29/06	DWG0700103	
Benzyl alcohol	ND	U	96	2.2	10	12/26/06	12/29/06	DWG0700103	
bis(2-Chloroethoxy)methane	ND	U	48	3.2	10	12/26/06	12/29/06	DWG0700103	
Bis(2-chloroethyl) Ether	ND	U	48	2.4	10	12/26/06	12/29/06	DWG0700103	
Bis(2-Chloroisopropyl)ether	ND	U	48	2.4	10	12/26/06	12/29/06	DWG0700103	
Bis(2-ethylhexyl) Phthalate	ND	U	48	3.0	10	12/26/06	12/29/06	DWG0700103	
Butyl Benzyl Phthalate	ND	U	48	4.8	10	12/26/06	12/29/06	DWG0700103	
Chrysene	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
Di-n-butyl Phthalate	ND	U	48	2.5	10	12/26/06	12/29/06	DWG0700103	
Di-n-octyl Phthalate	ND	U	48	3.3	10	12/26/06	12/29/06	DWG0700103	
Dibenz(a,h)anthracene	ND	U	48	6.2	10	12/26/06	12/29/06	DWG0700103	
Dibenzofuran	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
Diethyl Phthalate	ND	U	48	2.8	10	12/26/06	12/29/06	DWG0700103	
Dimethyl Phthalate	ND	U	48	2.6	10	12/26/06	12/29/06	DWG0700103	
Fluoranthene	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
Fluorene	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
Hexachlorobenzene	ND	U	20	2.1	10	12/26/06	12/29/06	DWG0700103	
Hexachlorobutadiene	ND	U	96	2.2	10	12/26/06	12/29/06	DWG0700103	
Hexachlorocyclopentadiene	ND	U	96	18	10	12/26/06	12/29/06	DWG0700103	
Hexachloroethane	ND	U	96	25	10	12/26/06	12/29/06	DWG0700103	
Indeno(1,2,3-cd)pyrene	ND	U	48	6.5	10	12/26/06	12/29/06	DWG0700103	
Isophorone	ND	U	48	3.0	10	12/26/06	12/29/06	DWG0700103	
N-Nitrosodi-n-propylamine	ND	U	48	2.8	10	12/26/06	12/29/06	DWG0700103	
N-Nitrosodimethylamine	ND	U	48	4.8	10	12/26/06	12/29/06	DWG0700103	
N-Nitrosodiphenylamine	ND	U	48	2.3	10	12/26/06	12/29/06	DWG0700103	
Naphthalene	ND	U	48	2.1	10	12/26/06	12/29/06	DWG0700103	
Nitrobenzene	ND	U	48	2.6	10	12/26/06	12/29/06	DWG0700103	
Pentachlorophenol	ND	U	290	6.3	10	12/26/06	12/29/06	DWG0700103	
Phenanthrene	ND	U	48	2.2	10	12/26/06	12/29/06	DWG0700103	
Phenol	**6.8**	JD	48	1.1	10	12/26/06	12/29/06	DWG0700103	
Pyrene	ND	U	48	3.3	10	12/26/06	12/29/06	DWG0700103	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-55-GW-11
Lab Code: D0602139-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	96	3.3	10	12/26/06	12/29/06	DWG0700103	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	80	31-112	12/29/06	Acceptable
2-Fluorobiphenyl	83	47-110	12/29/06	Acceptable
2-Fluorophenol	82	23-115	12/29/06	Acceptable
Nitrobenzene-d5	97	42-122	12/29/06	Acceptable
Phenol-d5	85	23-121	12/29/06	Acceptable
Terphenyl-d14	58	37-130	12/29/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0700103-4

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	12/26/06	12/29/06	DWG0700103	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	12/26/06	12/29/06	DWG0700103	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	12/26/06	12/29/06	DWG0700103	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	12/26/06	12/29/06	DWG0700103	
1,4-Dioxane	ND	U	2.0	0.41	1	12/26/06	12/29/06	DWG0700103	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	12/26/06	12/29/06	DWG0700103	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	12/26/06	12/29/06	DWG0700103	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	12/26/06	12/29/06	DWG0700103	
2,4-Dimethylphenol	ND	U	10	0.83	1	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrophenol	ND	U	50	10	1	12/26/06	12/29/06	DWG0700103	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	12/26/06	12/29/06	DWG0700103	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	12/26/06	12/29/06	DWG0700103	
2-Chloronaphthalene	ND	U	5.0	0.22	1	12/26/06	12/29/06	DWG0700103	
2-Chlorophenol	ND	U	5.0	0.24	1	12/26/06	12/29/06	DWG0700103	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	12/26/06	12/29/06	DWG0700103	
2-Methylnaphthalene	ND	U	5.0	0.18	1	12/26/06	12/29/06	DWG0700103	
2-Methylphenol	ND	U	5.0	0.32	1	12/26/06	12/29/06	DWG0700103	
2-Nitroaniline	ND	U	20	0.27	1	12/26/06	12/29/06	DWG0700103	
2-Nitrophenol	ND	U	5.0	0.26	1	12/26/06	12/29/06	DWG0700103	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	12/26/06	12/29/06	DWG0700103	
3-Nitroaniline	ND	U	20	0.29	1	12/26/06	12/29/06	DWG0700103	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	12/26/06	12/29/06	DWG0700103	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	12/26/06	12/29/06	DWG0700103	
4-Chloroaniline	ND	U	5.0	0.36	1	12/26/06	12/29/06	DWG0700103	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	12/26/06	12/29/06	DWG0700103	
4-Methylphenol	ND	U	5.0	0.28	1	12/26/06	12/29/06	DWG0700103	
4-Nitroaniline	ND	U	20	0.36	1	12/26/06	12/29/06	DWG0700103	
4-Nitrophenol	ND	U	50	20	1	12/26/06	12/29/06	DWG0700103	
Acenaphthene	ND	U	5.0	0.15	1	12/26/06	12/29/06	DWG0700103	
Acenaphthylene	ND	U	5.0	0.23	1	12/26/06	12/29/06	DWG0700103	
Aniline	ND	U	5.0	0.34	1	12/26/06	12/29/06	DWG0700103	
Anthracene	ND	U	5.0	0.21	1	12/26/06	12/29/06	DWG0700103	
Benz(a)anthracene	ND	U	5.0	0.21	1	12/26/06	12/29/06	DWG0700103	
Benzo(a)pyrene	ND	U	5.0	0.54	1	12/26/06	12/29/06	DWG0700103	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0700103-4

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	12/26/06	12/29/06	DWG0700103	
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	12/26/06	12/29/06	DWG0700103	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	12/26/06	12/29/06	DWG0700103	
Benzoic acid	ND	U	50	20	1	12/26/06	12/29/06	DWG0700103	
Benzyl alcohol	ND	U	10	0.22	1	12/26/06	12/29/06	DWG0700103	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	12/26/06	12/29/06	DWG0700103	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	12/26/06	12/29/06	DWG0700103	
Bis(2-Chloroisopropyl)ether	ND	U	5.0	0.24	1	12/26/06	12/29/06	DWG0700103	
Bis(2-ethylhexyl) Phthalate	**0.81**	J	5.0	0.30	1	12/26/06	12/29/06	DWG0700103	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	12/26/06	12/29/06	DWG0700103	
Chrysene	ND	U	5.0	0.22	1	12/26/06	12/29/06	DWG0700103	
Di-n-butyl Phthalate	ND	U	5.0	0.25	1	12/26/06	12/29/06	DWG0700103	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	12/26/06	12/29/06	DWG0700103	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	12/26/06	12/29/06	DWG0700103	
Dibenzofuran	ND	U	5.0	0.22	1	12/26/06	12/29/06	DWG0700103	
Diethyl Phthalate	ND	U	5.0	0.28	1	12/26/06	12/29/06	DWG0700103	
Dimethyl Phthalate	ND	U	5.0	0.26	1	12/26/06	12/29/06	DWG0700103	
Fluoranthene	ND	U	5.0	0.21	1	12/26/06	12/29/06	DWG0700103	
Fluorene	ND	U	5.0	0.22	1	12/26/06	12/29/06	DWG0700103	
Hexachlorobenzene	ND	U	2.0	0.21	1	12/26/06	12/29/06	DWG0700103	
Hexachlorobutadiene	ND	U	10	0.22	1	12/26/06	12/29/06	DWG0700103	
Hexachlorocyclopentadiene	ND	U	10	1.8	1	12/26/06	12/29/06	DWG0700103	
Hexachloroethane	ND	U	10	2.5	1	12/26/06	12/29/06	DWG0700103	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	12/26/06	12/29/06	DWG0700103	
Isophorone	ND	U	5.0	0.30	1	12/26/06	12/29/06	DWG0700103	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	12/26/06	12/29/06	DWG0700103	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	12/26/06	12/29/06	DWG0700103	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	12/26/06	12/29/06	DWG0700103	
Naphthalene	ND	U	5.0	0.21	1	12/26/06	12/29/06	DWG0700103	
Nitrobenzene	ND	U	5.0	0.26	1	12/26/06	12/29/06	DWG0700103	
Pentachlorophenol	ND	U	30	0.63	1	12/26/06	12/29/06	DWG0700103	
Phenanthrene	ND	U	5.0	0.22	1	12/26/06	12/29/06	DWG0700103	
Phenol	ND	U	5.0	0.11	1	12/26/06	12/29/06	DWG0700103	
Pyrene	ND	U	5.0	0.33	1	12/26/06	12/29/06	DWG0700103	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0700103-4

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	0.33	1	12/26/06	12/29/06	DWG0700103	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	86	31-112	12/29/06	Acceptable
2-Fluorobiphenyl	105	47-110	12/29/06	Acceptable
2-Fluorophenol	92	23-115	12/29/06	Acceptable
Nitrobenzene-d5	107	42-122	12/29/06	Acceptable
Phenol-d5	95	23-121	12/29/06	Acceptable
Terphenyl-d14	91	37-130	12/29/06	Acceptable

Comments:

QC Summary

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139

Surrogate Recovery Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4	Sur5	Sur6	
T-54-GW-11	D0602139-002	68 D	74 D	86 D	99 D	85 D	37 D	
T-54-GW-40	D0602139-003	86	95	84	100	88	47	
T-54-GW-65	D0602139-004	86	91	81	97	87	28	*
T-55-GW-11	D0602139-006	80 D	83 D	82 D	97 D	85 D	58 D	
Method Blank	DWG0700103-4	86	105	92	107	95	91	
Batch QC	D0602127-005	86	99	84	100	89	85	
Batch QCMS	DWG0700103-1	88	99	84	99	88	92	
Batch QCDMS	DWG0700103-2	90	102	86	103	90	92	
Lab Control Sample	DWG0700103-3	86	100	80	99	86	86	

Surrogate Recovery Control Limits (%)

Sur1 = 2,4,6-Tribromophenol	31-112	Sur5 = Phenol-d5	23-121
Sur2 = 2-Fluorobiphenyl	47-110	Sur6 = Terphenyl-d14	37-130
Sur3 = 2-Fluorophenol	23-115		
Sur4 = Nitrobenzene-d5	42-122		

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
Date Analyzed: 12/29/2006
Time Analyzed: 13:46

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E061229\E061905.D
Instrument ID: MSE
Analysis Method: 8270C

Lab Code: DWG0700100-2
Analysis Lot: DWG0700100

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	148,047	6.33	331,024	10.23	392,104	16.72
	Upper Limit ==>	296,094	6.83	662,048	10.73	784,208	17.22
	Lower Limit ==>	74,024	5.83	165,512	9.73	196,052	16.22
	ICAL Result ==>	187,948	6.36	416,321	10.26	304,961	16.79
Associated Analyses							
Method Blank	DWG0700103-4	156,066	6.33	333,923	10.23	382,598	16.72
Lab Control Sample	DWG0700103-3	136,093	6.33	302,767	10.23	367,579	16.72
Batch QC	D0602127-005	141,065	6.33	309,729	10.23	349,749	16.71
Batch QCMS	DWG0700103-1	132,676	6.33	293,031	10.23	295,250	16.72
Batch QCDMS	DWG0700103-2	126,108	6.33	279,886	10.23	307,966	16.71
T-54-GW-11	D0602139-002	163,087	6.33	346,514	10.23	307,636	16.71
T-54-GW-40	D0602139-003	144,971	6.33	315,542	10.23	304,066	16.72
T-54-GW-65	D0602139-004	143,792	6.33	313,453	10.23	313,991	16.71
T-55-GW-11	D0602139-006	152,077	6.33	332,758	10.23	303,410	16.72

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
Date Analyzed: 12/29/2006
Time Analyzed: 13:46

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E061229\E061905.D
Instrument ID: MSE
Analysis Method: 8270C

Lab Code: DWG0700100-2
Analysis Lot: DWG0700100

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	575,551	7.99	210,954	19.80	551,719	12.11
	Upper Limit ==>	1,151,102	8.49	421,908	20.30	1,103,438	12.61
	Lower Limit ==>	287,776	7.49	105,477	19.30	275,860	11.61
	ICAL Result ==>	748,255	8.02	143,248	19.91	621,575	12.15
Associated Analyses							
Method Blank	DWG0700103-4	607,270	7.98	280,590	19.81	519,672	12.11
Lab Control Sample	DWG0700103-3	534,006	7.98	238,326	19.80	501,342	12.11
Batch QC	D0602127-005	552,169	7.98	231,681	19.80	485,558	12.10
Batch QCMS	DWG0700103-1	522,475	7.98	171,828	19.80	471,280	12.11
Batch QCDMS	DWG0700103-2	494,507	7.98	194,280	19.80	451,327	12.11
T-54-GW-11	D0602139-002	637,181	7.98	173,860	19.80	532,839	12.11
T-54-GW-40	D0602139-003	567,298	7.99	171,797	19.80	492,913	12.11
T-54-GW-65	D0602139-004	560,334	7.98	180,877	19.79	497,820	12.10
T-55-GW-11	D0602139-006	592,260	7.98	159,170	19.80	528,373	12.11

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Extracted:**	12/26/2006
Sample Matrix:	Water	**Date Analyzed:**	12/29/2006

Matrix Spike/Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	D0602127-005	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C	**Extraction Lot:**	DWG0700103

Analyte Name	Sample Result	Batch QCMS DWG0700103-1 Matrix Spike			Batch QCDMS DWG0700103-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2,4-Trichlorobenzene	ND	41.9	47.6	88	42.5	47.6	89	30-101	1	20
1,4-Dichlorobenzene	ND	39.8	47.6	84	39.4	47.6	83	19-102	1	20
1,4-Dioxane	1.5	39.3	47.6	79	39.8	47.6	80	35-101	1	20
2,4-Dinitrotoluene	ND	47.2	47.6	99	49.9	47.6	105	23-132	6	20
2-Chlorophenol	ND	43.5	47.6	91	44.7	47.6	94	45-108	3	20
4-Chloro-3-methylphenol	ND	47.6	47.6	100	50.1	47.6	105	45-115	5	20
4-Nitrophenol	ND	97.7	95.2	103	101	95.2	107	10-134	4	20
Acenaphthene	ND	47.0	47.6	99	49.4	47.6	104	39-119	5	20
N-Nitrosodi-n-propylamine	ND	45.6	47.6	96	47.9	47.6	101	43-112	5	20
Pentachlorophenol	ND	81.9	95.2	86	87.1	95.2	91	15-141	6	20
Phenol	ND	44.0	47.6	92	44.6	47.6	94	20-119	1	20
Pyrene	ND	44.6	47.6	94	44.6	47.6	94	29-140	0	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Extracted: 12/26/2006
Date Analyzed: 12/29/2006

Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: DWG0700103

	Lab Control Sample DWG0700103-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2,4-Trichlorobenzene	42.6	50.0	85	30-101
1,2-Dichlorobenzene	40.1	50.0	80	20-105
1,3-Dichlorobenzene	38.8	50.0	78	15-104
1,4-Dichlorobenzene	38.9	50.0	78	19-102
1,4-Dioxane	37.8	50.0	76	35-101
2,4,5-Trichlorophenol	49.9	50.0	100	48-114
2,4,6-Trichlorophenol	50.0	50.0	100	48-112
2,4-Dichlorophenol	48.7	50.0	97	49-114
2,4-Dimethylphenol	48.8	50.0	98	38-107
2,4-Dinitrophenol	85.3	100	85	16-134
2,4-Dinitrotoluene	51.6	50.0	103	23-132
2,6-Dinitrotoluene	51.7	50.0	103	47-116
2-Chloronaphthalene	46.0	50.0	92	41-113
2-Chlorophenol	43.9	50.0	88	45-108
2-Methyl-4,6-dinitrophenol	87.1	100	87	21-134
2-Methylnaphthalene	46.8	50.0	94	41-112
2-Methylphenol	45.5	50.0	91	44-110
2-Nitroaniline	48.4	50.0	97	19-137
2-Nitrophenol	46.5	50.0	93	47-117
3,3'-Dichlorobenzidine	87.5	100	88	10-122
3-Nitroaniline	53.9	50.0	108	25-146
4-Bromophenyl Phenyl Ether	42.5	50.0	85	46-117
4-Chloro-3-methylphenol	51.1	50.0	102	45-115
4-Chloroaniline	51.2	50.0	102	16-139
4-Chlorophenyl Phenyl Ether	50.9	50.0	102	45-115
4-Methylphenol	47.2	50.0	94	60-108
4-Nitroaniline	54.5	50.0	109	16-147
4-Nitrophenol	104	100	104	10-134
Acenaphthene	49.8	50.0	100	39-119
Acenaphthylene	47.7	50.0	95	51-112
Aniline	45.7	50.0	91	10-144
Anthracene	47.9	50.0	96	40-123
Benz(a)anthracene	47.6	50.0	95	36-126
Benzo(a)pyrene	46.7	50.0	93	41-125
Benzo(b)fluoranthene	47.5	50.0	95	48-126
Benzo(g,h,i)perylene	47.3	50.0	95	33-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Extracted: 12/26/2006
Date Analyzed: 12/29/2006

Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: DWG0700103

Analyte Name	Lab Control Sample DWG0700103-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Benzo(k)fluoranthene	45.8	50.0	92	49-125
Benzoic acid	203	250	81	10-148
Benzyl alcohol	46.2	50.0	92	48-119
bis(2-Chloroethoxy)methane	47.6	50.0	95	39-120
Bis(2-chloroethyl) Ether	44.2	50.0	88	41-108
Bis(2-Chloroisopropyl)ether	42.3	50.0	85	38-119
Bis(2-ethylhexyl) Phthalate	51.9	50.0	104	42-127
Butyl Benzyl Phthalate	47.9	50.0	96	40-126
Chrysene	47.3	50.0	95	47-117
Di-n-butyl Phthalate	53.0	50.0	106	40-126
Di-n-octyl Phthalate	47.9	50.0	96	48-127
Dibenz(a,h)anthracene	50.4	50.0	101	44-137
Dibenzofuran	49.1	50.0	98	45-115
Diethyl Phthalate	50.8	50.0	102	41-120
Dimethyl Phthalate	49.8	50.0	100	46-116
Fluoranthene	57.4	50.0	115	35-127
Fluorene	50.3	50.0	101	46-121
Hexachlorobenzene	41.2	50.0	82	44-117
Hexachlorobutadiene	37.5	50.0	75	17-101
Hexachlorocyclopentadiene	17.9	50.0	36	10-74
Hexachloroethane	37.9	50.0	76	10-105
Indeno(1,2,3-cd)pyrene	49.7	50.0	99	38-131
Isophorone	50.2	50.0	100	44-115
N-Nitrosodi-n-propylamine	48.4	50.0	97	43-112
N-Nitrosodimethylamine	43.8	50.0	88	35-119
N-Nitrosodiphenylamine	44.3	50.0	89	53-106
Naphthalene	44.9	50.0	90	36-111
Nitrobenzene	48.2	50.0	96	42-116
Pentachlorophenol	83.9	100	84	15-141
Phenanthrene	48.2	50.0	96	43-120
Phenol	43.9	50.0	88	20-119
Pyrene	43.3	50.0	87	29-140
Pyridine	35.0	50.0	70	23-98

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Extracted:**	12/26/2006
Sample Matrix:	Water	**Date Analyzed:**	12/29/2006
		Time Analyzed:	14:31

Method Blank Summary
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	Method Blank	**File ID:**	Q:\TARGET\CHEM\MSE.I\E061229B\E0619
Lab Code:	DWG0700103-4	**Instrument ID:**	MSE
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C	**Extraction Lot:**	DWG0700103

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	DWG0700103-3	Q:\TARGET\CHEM\MSE.I\E061229B\E061907.D	12/29/06	15:03
Batch QC	D0602127-005	Q:\TARGET\CHEM\MSE.I\E061229B\E061912.D	12/29/06	17:45
Batch QCMS	DWG0700103-1	Q:\TARGET\CHEM\MSE.I\E061229B\E061913.D	12/29/06	18:17
Batch QCDMS	DWG0700103-2	Q:\TARGET\CHEM\MSE.I\E061229B\E061914.D	12/29/06	18:49
T-54-GW-11	D0602139-002	Q:\TARGET\CHEM\MSE.I\E061229B\E061916.D	12/29/06	19:54
T-54-GW-40	D0602139-003	Q:\TARGET\CHEM\MSE.I\E061229B\E061917.D	12/29/06	20:26
T-54-GW-65	D0602139-004	Q:\TARGET\CHEM\MSE.I\E061229B\E061918.D	12/29/06	20:59
T-55-GW-11	D0602139-006	Q:\TARGET\CHEM\MSE.I\E061229B\E061919.D	12/29/06	21:31

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Extracted:**	12/26/2006
Sample Matrix:	Water	**Date Analyzed:**	12/29/2006
		Time Analyzed:	15:03

Lab Control Sample Summary
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	Lab Control Sample	**File ID:**	Q:\TARGET\CHEM\MSE.I\E061229B\E0619
Lab Code:	DWG0700103-3	**Instrument ID:**	MSE
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C	**Extraction Lot:**	DWG0700103

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	DWG0700103-4	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D	12/29/06	14:31
Batch QC	D0602127-005	Q:\TARGET\CHEM\MSE.I\E061229B\E061912.D	12/29/06	17:45
Batch QCMS	DWG0700103-1	Q:\TARGET\CHEM\MSE.I\E061229B\E061913.D	12/29/06	18:17
Batch QCDMS	DWG0700103-2	Q:\TARGET\CHEM\MSE.I\E061229B\E061914.D	12/29/06	18:49
T-54-GW-11	D0602139-002	Q:\TARGET\CHEM\MSE.I\E061229B\E061916.D	12/29/06	19:54
T-54-GW-40	D0602139-003	Q:\TARGET\CHEM\MSE.I\E061229B\E061917.D	12/29/06	20:26
T-54-GW-65	D0602139-004	Q:\TARGET\CHEM\MSE.I\E061229B\E061918.D	12/29/06	20:59
T-55-GW-11	D0602139-006	Q:\TARGET\CHEM\MSE.I\E061229B\E061919.D	12/29/06	21:31

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
Date Analyzed: 12/29/2006
Time Analyzed: 13:30

Tune Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E061229\E061904.D
Instrument ID: MSE
Column:

Analysis Method: 8270C
Analysis Lot: DWG0700100

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	60	51.5	5214	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	43.5	4398	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	53.1	5374	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	10115	PASS
199	198	5	9	6.6	672	PASS
275	198	10	30	24.4	2466	PASS
365	198	1	100	3.2	327	PASS
441	443	0	100	84.0	1334	PASS
442	198	40	100	82.9	8383	PASS
443	442	17	23	19.0	1589	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	DWG0700100-2	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	13:46	
Method Blank	DWG0700103-4	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	14:31	
Lab Control Sample	DWG0700103-3	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	15:03	
Batch QC	D0602127-005	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	17:45	
Batch QCMS	DWG0700103-1	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	18:17	
Batch QCDMS	DWG0700103-2	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	18:49	
T-54-GW-11	D0602139-002	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	19:54	
T-54-GW-40	D0602139-003	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	20:26	
T-54-GW-65	D0602139-004	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	20:59	
T-55-GW-11	D0602139-006	Q:\TARGET\CHEM\MSE.I\E061229	12/29/2006	21:31	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139

Analysis Run Log
Semivolatile Organic Compounds by EPA Method 8270C

Analysis Method: 8270C

Analysis Lot: DWG0700100
Instrument ID: MSE

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\E061904.D	GC/MS Tuning - Decafluorotriphenyl	DWG0700100-1	12/29/2006	13:30		12/29/2006	13:39
\E061905.D	Continuing Calibration Verification	DWG0700100-2	12/29/2006	13:46		12/29/2006	14:11
\E061906.D	Method Blank	DWG0700103-4	12/29/2006	14:31		12/29/2006	14:56
\E061907.D	Lab Control Sample	DWG0700103-3	12/29/2006	15:03		12/29/2006	15:28
\E061908.D	ZZZZZZ	ZZZZZZ	12/29/2006	15:36		12/29/2006	16:01
\E061909.D	ZZZZZZ	ZZZZZZ	12/29/2006	16:08		12/29/2006	16:33
\E061910.D	ZZZZZZ	ZZZZZZ	12/29/2006	16:41		12/29/2006	17:06
\E061911.D	ZZZZZZ	ZZZZZZ	12/29/2006	17:13		12/29/2006	17:38
\E061912.D	Batch QC	D0602127-005	12/29/2006	17:45		12/29/2006	18:10
\E061913.D	Batch QCMS	DWG0700103-1	12/29/2006	18:17		12/29/2006	18:42
\E061914.D	Batch QCDMS	DWG0700103-2	12/29/2006	18:49		12/29/2006	19:14
\E061915.D	ZZZZZZ	ZZZZZZ	12/29/2006	19:22		12/29/2006	19:47
\E061916.D	T-54-GW-11	D0602139-002	12/29/2006	19:54		12/29/2006	20:19
\E061917.D	T-54-GW-40	D0602139-003	12/29/2006	20:26		12/29/2006	20:51
\E061918.D	T-54-GW-65	D0602139-004	12/29/2006	20:59		12/29/2006	21:24
\E061919.D	T-55-GW-11	D0602139-006	12/29/2006	21:31		12/29/2006	21:56

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Extracted: 12/26/2006

Extraction Prep Log
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Extraction Lot: DWG0700103
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
T-54-GW-11	D0602139-002	12/20/06	12/22/06	1050ml	1ml	NA	
T-54-GW-40	D0602139-003	12/20/06	12/22/06	1050ml	1ml	NA	
T-54-GW-65	D0602139-004	12/20/06	12/22/06	1050ml	1ml	NA	
T-55-GW-11	D0602139-006	12/20/06	12/22/06	1050ml	1ml	NA	
Method Blank	DWG0700103-4	NA	NA	1000ml	1ml	NA	
Batch QC	D0602127-005	NA	NA	1050ml	1ml	NA	
Batch QCMS	DWG0700103-1	NA	NA	1050ml	1ml	NA	
Batch QCDMS	DWG0700103-2	NA	NA	1050ml	1ml	NA	
Lab Control Sample	DWG0700103-3	NA	NA	1000ml	1ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Initial Calibration Data

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Level ID	File ID	Level ID	File ID
A	C:\MSDCHEM\1\DATA\E061226\E061879.D	E	C:\MSDCHEM\1\DATA\E061226\E061883.D
B	C:\MSDCHEM\1\DATA\E061226\E061880.D	F	C:\MSDCHEM\1\DATA\E061226\E061884.D
C	C:\MSDCHEM\1\DATA\E061226\E061881.D	G	C:\MSDCHEM\1\DATA\E061226\E061885.D
D	C:\MSDCHEM\1\DATA\E061226\E061882.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,2,4-Trichlorobenzene	A	2.0	0.293	B	4.0	0.300	C	10	0.300	D	25	0.296	E	50	0.295
	F	70	0.293	G	100	0.292									
1,2-Dichlorobenzene	A	2.0	1.55	B	4.0	1.56	C	10	1.53	D	25	1.53	E	50	1.54
	F	70	1.53	G	100	1.52									
1,3-Dichlorobenzene	A	2.0	1.66	B	4.0	1.62	C	10	1.60	D	25	1.62	E	50	1.61
	F	70	1.59	G	100	1.60									
‡ 1,4-Dichlorobenzene	A	2.0	1.69	B	4.0	1.68	C	10	1.65	D	25	1.65	E	50	1.63
	F	70	1.61	G	100	1.62									
1,4-Dioxane	A	2.0	0.587	B	4.0	0.604	C	10	0.593	D	25	0.587	E	50	0.588
	F	70	0.570	G	100	0.570									
2,4,5-Trichlorophenol	A	2.0	0.328	B	4.0	0.345	C	10	0.351	D	25	0.364	E	50	0.366
	F	70	0.371	G	100	0.375									
‡ 2,4,6-Trichlorophenol	A	2.0	0.299	B	4.0	0.320	C	10	0.323	D	25	0.335	E	50	0.338
	F	70	0.344	G	100	0.346									
‡ 2,4-Dichlorophenol	A	2.0	0.261	B	4.0	0.269	C	10	0.279	D	25	0.278	E	50	0.281
	F	70	0.276	G	100	0.277									
2,4-Dimethylphenol	A	2.0	0.315	B	4.0	0.324	C	10	0.319	D	25	0.329	E	50	0.329
	F	70	0.327	G	100	0.326									
† 2,4-Dinitrophenol							C	20	0.138	D	50	0.169	E	100	0.176
	F	140	0.189	G	200	0.191									
2,4-Dinitrotoluene	A	2.0	0.326	B	4.0	0.349	C	10	0.359	D	25	0.386	E	50	0.385
	F	70	0.390	G	100	0.392									
2,6-Dinitrotoluene	A	2.0	0.255	B	4.0	0.270	C	10	0.290	D	25	0.298	E	50	0.301
	F	70	0.305	G	100	0.306									
2-Chloronaphthalene	A	2.0	1.12	B	4.0	1.15	C	10	1.13	D	25	1.13	E	50	1.12
	F	70	1.13	G	100	1.11									
2-Chlorophenol	A	2.0	1.45	B	4.0	1.44	C	10	1.46	D	25	1.49	E	50	1.50
	F	70	1.49	G	100	1.49									

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Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Methyl-4,6-dinitrophenol				B	8.0	0.107	C	20	0.124	D	50	0.138	E	100	0.142
	F	140	0.145	G	200	0.145									
2-Methylnaphthalene	A	2.0	0.694	B	4.0	0.703	C	10	0.711	D	25	0.718	E	50	0.710
	F	70	0.713	G	100	0.702									
2-Methylphenol	A	2.0	1.28	B	4.0	1.25	C	10	1.29	D	25	1.32	E	50	1.30
	F	70	1.30	G	100	1.32									
2-Nitroaniline	A	2.0	0.300	B	4.0	0.314	C	10	0.342	D	25	0.356	E	50	0.362
	F	70	0.376	G	100	0.375									
‡ 2-Nitrophenol	A	2.0	0.172	B	4.0	0.181	C	10	0.204	D	25	0.250	E	50	0.196
	F	70	0.200	G	100	0.197									
3,3'-Dichlorobenzidine	A	4.0	0.309	B	8.0	0.273	C	20	0.270	D	50	0.223	E	100	0.276
	F	140	0.349	G	200	0.358									
3-Nitroaniline	A	2.0	0.235	B	4.0	0.249	C	10	0.191	D	25	0.156	E	50	0.261
	F	70	0.286	G	100	0.288									
4-Bromophenyl Phenyl Ether	A	2.0	0.204	B	4.0	0.210	C	10	0.208	D	25	0.209	E	50	0.213
	F	70	0.212	G	100	0.215									
4-Chloro-3-methylphenol	A	2.0	0.246	B	4.0	0.270	C	10	0.280	D	25	0.288	E	50	0.294
	F	70	0.293	G	100	0.292									
4-Chloroaniline	A	2.0	0.315	B	4.0	0.350	C	10	0.349	D	25	0.321	E	50	0.412
	F	70	0.409	G	100	0.407									
4-Chlorophenyl Phenyl Ether	A	2.0	0.537	B	4.0	0.562	C	10	0.553	D	25	0.559	E	50	0.555
	F	70	0.560	G	100	0.559									
4-Methylphenol	A	2.0	1.56	B	4.0	1.58	C	10	1.62	D	25	1.68	E	50	1.66
	F	70	1.68	G	100	1.69									
4-Nitroaniline	A	2.0	0.217	B	4.0	0.188	C	10	0.137	D	25	0.168	E	50	0.230
	F	70	0.263	G	100	0.265									
† 4-Nitrophenol	A	4.0	0.114	B	8.0	0.124	C	20	0.136	D	50	0.155	E	100	0.148
	F	140	0.158	G	200	0.157									
‡ Acenaphthene	A	2.0	1.18	B	4.0	1.22	C	10	1.25	D	25	1.26	E	50	1.26
	F	70	1.13	G	100	1.15									
Acenaphthylene	A	2.0	1.76	B	4.0	1.81	C	10	1.85	D	25	1.86	E	50	1.83
	F	70	1.87	G	100	1.85									
Aniline	A	2.0	1.77	B	4.0	1.91	C	10	2.07	D	25	2.07	E	50	2.09
	F	70	2.09	G	100	2.10									

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Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Anthracene	A	2.0	1.05	B	4.0	1.08	C	10	1.10	D	25	1.12	E	50	1.11
	F	70	1.10	G	100	1.11									
Benz(a)anthracene	A	2.0	1.15	B	4.0	1.12	C	10	1.14	D	25	1.17	E	50	1.18
	F	70	1.18	G	100	1.19									
‡ Benzo(a)pyrene	A	2.0	1.21	B	4.0	1.03	C	10	1.07	D	25	1.14	E	50	1.17
	F	70	1.19	G	100	1.20									
Benzo(b)fluoranthene	A	2.0	1.58	B	4.0	1.34	C	10	1.32	D	25	1.44	E	50	1.52
	F	70	1.49	G	100	1.47									
Benzo(g,h,i)perylene	A	2.0	0.728	B	4.0	0.700	C	10	0.729	D	25	0.717	E	50	0.725
	F	70	0.827	G	100	0.907									
Benzo(k)fluoranthene	A	2.0	1.57	B	4.0	1.35	C	10	1.36	D	25	1.39	E	50	1.42
	F	70	1.38	G	100	1.37									
Benzoic acid				B	20	0.165	C	50	0.194	D	130	0.224	E	250	0.229
	F	350	0.234	G	500	0.232									
Benzyl alcohol	A	2.0	0.899	B	4.0	0.896	C	10	0.931	D	25	0.964	E	50	0.962
	F	70	0.959	G	100	0.969									
bis(2-Chloroethoxy)methane	A	2.0	0.396	B	4.0	0.405	C	10	0.403	D	25	0.404	E	50	0.402
	F	70	0.398	G	100	0.392									
Bis(2-chloroethyl) Ether	A	2.0	1.46	B	4.0	1.44	C	10	1.43	D	25	1.45	E	50	1.42
	F	70	1.41	G	100	1.41									
Bis(2-Chloroisopropyl)ether	A	2.0	2.81	B	4.0	2.78	C	10	2.80	D	25	2.79	E	50	2.68
	F	70	2.64	G	100	2.60									
Bis(2-ethylhexyl) Phthalate	A	2.0	0.850	B	4.0	0.913	C	10	1.00	D	25	1.04	E	50	1.15
	F	70	1.05	G	100	1.06									
Butyl Benzyl Phthalate	A	2.0	0.738	B	4.0	0.708	C	10	0.760	D	25	0.792	E	50	0.867
	F	70	0.796	G	100	0.785									
Chrysene	A	2.0	1.12	B	4.0	1.09	C	10	1.09	D	25	1.09	E	50	1.08
	F	70	1.08	G	100	1.09									
Di-n-butyl Phthalate	A	2.0	1.07	B	4.0	1.17	C	10	1.26	D	25	1.27	E	50	1.28
	F	70	1.25	G	100	1.27									
‡ Di-n-octyl Phthalate	A	2.0	1.87	B	4.0	1.96	C	10	2.35	D	25	2.83	E	50	3.41
	F	70	2.91	G	100	2.72									
Dibenz(a,h)anthracene	A	2.0	0.763	B	4.0	0.726	C	10	0.754	D	25	0.754	E	50	0.765
	F	70	0.865	G	100	0.941									

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Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dibenzofuran	A	2.0	1.57	B	4.0	1.59	C	10	1.57	D	25	1.59	E	50	1.58
	F	70	1.59	G	100	1.57									
Diethyl Phthalate	A	2.0	1.20	B	4.0	1.23	C	10	1.24	D	25	1.25	E	50	1.27
	F	70	1.26	G	100	1.27									
Dimethyl Phthalate	A	2.0	1.18	B	4.0	1.22	C	10	1.24	D	25	1.25	E	50	1.25
	F	70	1.26	G	100	1.26									
‡ Fluoranthene	A	2.0	0.890	B	4.0	0.921	C	10	0.952	D	25	1.00	E	50	0.961
	F	70	0.968	G	100	0.981									
Fluorene	A	2.0	1.25	B	4.0	1.27	C	10	1.28	D	25	1.29	E	50	1.29
	F	70	1.30	G	100	1.31									
Hexachlorobenzene	A	2.0	0.221	B	4.0	0.222	C	10	0.224	D	25	0.217	E	50	0.223
	F	70	0.218	G	100	0.224									
‡ Hexachlorobutadiene	A	2.0	0.153	B	4.0	0.155	C	10	0.156	D	25	0.154	E	50	0.157
	F	70	0.157	G	100	0.155									
† Hexachlorocyclopentadiene	A	2.0	0.297	B	4.0	0.307	C	10	0.319	D	25	0.322	E	50	0.327
	F	70	0.329	G	100	0.327									
Hexachloroethane	A	2.0	0.589	B	4.0	0.598	C	10	0.612	D	25	0.611	E	50	0.607
	F	70	0.610	G	100	0.615									
Indeno(1,2,3-cd)pyrene	A	2.0	0.926	B	4.0	0.819	C	10	0.865	D	25	0.869	E	50	0.884
	F	70	1.01	G	100	1.10									
Isophorone	A	2.0	0.593	B	4.0	0.621	C	10	0.639	D	25	0.650	E	50	0.657
	F	70	0.653	G	100	0.645									
† N-Nitrosodi-n-propylamine	A	2.0	0.920	B	4.0	0.941	C	10	0.951	D	25	0.974	E	50	0.990
	F	70	0.991	G	100	1.00									
N-Nitrosodimethylamine	A	2.0	0.779	B	4.0	0.777	C	10	0.753	D	25	0.770	E	50	0.756
	F	70	0.746	G	100	0.750									
‡ N-Nitrosodiphenylamine	A	2.0	0.580	B	4.0	0.598	C	10	0.584	D	25	0.502	E	50	0.564
	F	70	0.574	G	100	0.597									
Naphthalene	A	2.0	1.05	B	4.0	1.06	C	10	1.07	D	25	1.05	E	50	1.04
	F	70	1.04	G	100	1.03									
Nitrobenzene	A	2.0	0.350	B	4.0	0.349	C	10	0.357	D	25	0.360	E	50	0.357
	F	70	0.357	G	100	0.355									
‡ Pentachlorophenol				B	8.0	0.121	C	20	0.137	D	50	0.149	E	100	0.155
	F	140	0.157	G	200	0.161									

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Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Phenanthrene	A	2.0	1.13	B	4.0	1.12	C	10	1.12	D	25	1.13	E	50	1.11
	F	70	1.11	G	100	1.12									
‡ Phenol	A	2.0	1.70	B	4.0	1.72	C	10	1.75	D	25	1.77	E	50	1.74
	F	70	1.74	G	100	1.75									
Pyrene	A	2.0	1.60	B	4.0	1.71	C	10	1.71	D	25	1.74	E	50	1.87
	F	70	1.76	G	100	1.71									
Pyridine	A	2.0	1.54	B	4.0	1.52	C	10	1.51	D	25	1.54	E	50	1.53
	F	70	1.51	G	100	1.50									
2,4,6-Tribromophenol	A	2.0	0.0823	B	4.0	0.0890	C	10	0.0945	D	25	0.0988	E	50	0.101
	F	70	0.102	G	100	0.104									
2-Fluorobiphenyl	A	2.0	1.26	B	4.0	1.27	C	10	1.27	D	25	1.26	E	50	1.25
	F	70	1.26	G	100	1.26									
2-Fluorophenol	A	2.0	1.23	B	4.0	1.26	C	10	1.27	D	25	1.29	E	50	1.29
	F	70	1.29	G	100	1.28									
Nitrobenzene-d5	A	2.0	0.320	B	4.0	0.329	C	10	0.340	D	25	0.343	E	50	0.346
	F	70	0.346	G	100	0.342									
Phenol-d5	A	2.0	1.62	B	4.0	1.62	C	10	1.64	D	25	1.67	E	50	1.66
	F	70	1.66	G	100	1.67									
Terphenyl-d14	A	2.0	1.03	B	4.0	1.08	C	10	1.11	D	25	1.12	E	50	1.22
	F	70	1.14	G	100	1.13									

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Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
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Column: MS

Analyte Name	Compound Type	Calibration Evaluation: Fit Type	Eval.	Eval. Result	Q	Control Criteria	RRF Evaluation: Average RRF	Q	Minimum RRF
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	1.1		≤ 15	0.296		
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	0.9		≤ 15	1.54		
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	1.4		≤ 15	1.61		
‡ 1,4-Dichlorobenzene	MS	AverageRF	% RSD	1.8		≤ 30	1.65		
1,4-Dioxane	MS	AverageRF	% RSD	2.1		≤ 15	0.586		
2,4,5-Trichlorophenol	TRG	AverageRF	% RSD	4.7		≤ 15	0.357		
‡ 2,4,6-Trichlorophenol	TRG	AverageRF	% RSD	5.0		≤ 30	0.329		
‡ 2,4-Dichlorophenol	TRG	AverageRF	% RSD	2.5		≤ 30	0.274		
2,4-Dimethylphenol	TRG	AverageRF	% RSD	1.7		≤ 15	0.324		
† 2,4-Dinitrophenol	TRG	AverageRF	% RSD	12.5		≤ 15	0.173		0.05
2,4-Dinitrotoluene	MS	AverageRF	% RSD	6.9		≤ 15	0.369		
2,6-Dinitrotoluene	TRG	AverageRF	% RSD	6.7		≤ 15	0.289		
2-Chloronaphthalene	TRG	AverageRF	% RSD	0.9		≤ 15	1.13		
2-Chlorophenol	MS	AverageRF	% RSD	1.5		≤ 15	1.47		
2-Methyl-4,6-dinitrophenol	TRG	AverageRF	% RSD	11.2		≤ 15	0.133		
2-Methylnaphthalene	TRG	AverageRF	% RSD	1.2		≤ 15	0.707		
2-Methylphenol	TRG	AverageRF	% RSD	1.7		≤ 15	1.29		
2-Nitroaniline	TRG	AverageRF	% RSD	8.6		≤ 15	0.347		
‡ 2-Nitrophenol	TRG	AverageRF	% RSD	12.4		≤ 30	0.200		
3,3'-Dichlorobenzidine	TRG	Quadratic	COD	0.995		≥ 0.99	0.294		
3-Nitroaniline	TRG	Quadratic	COD	0.993		≥ 0.99	0.238		
4-Bromophenyl Phenyl Ether	TRG	AverageRF	% RSD	1.8		≤ 15	0.210		
4-Chloro-3-methylphenol	MS	AverageRF	% RSD	6.2		≤ 15	0.280		
4-Chloroaniline	TRG	AverageRF	% RSD	11.6		≤ 15	0.366		
4-Chlorophenyl Phenyl Ether	TRG	AverageRF	% RSD	1.6		≤ 15	0.555		
4-Methylphenol	TRG	AverageRF	% RSD	3.1		≤ 15	1.64		
4-Nitroaniline	TRG	Quadratic	COD	0.996		≥ 0.99	0.210		
† 4-Nitrophenol	MS	AverageRF	% RSD	12.3		≤ 15	0.142		0.05
‡ Acenaphthene	MS	AverageRF	% RSD	4.4		≤ 30	1.21		
Acenaphthylene	TRG	AverageRF	% RSD	2.1		≤ 15	1.83		
Aniline	TRG	AverageRF	% RSD	6.2		≤ 15	2.01		
Anthracene	TRG	AverageRF	% RSD	2.1		≤ 15	1.10		
Benz(a)anthracene	TRG	AverageRF	% RSD	2.2		≤ 15	1.16		
‡ Benzo(a)pyrene	TRG	AverageRF	% RSD	6.1		≤ 30	1.14		
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	6.4		≤ 15	1.45		
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	10.0		≤ 15	0.762		
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	5.5		≤ 15	1.41		
Benzoic acid	TRG	AverageRF	% RSD	13.2		≤ 15	0.213		
Benzyl alcohol	TRG	AverageRF	% RSD	3.4		≤ 15	0.940		
bis(2-Chloroethoxy)methane	TRG	AverageRF	% RSD	1.2		≤ 15	0.400		
Bis(2-chloroethyl) Ether	TRG	AverageRF	% RSD	1.4		≤ 15	1.43		
Bis(2-Chloroisopropyl)ether	TRG	AverageRF	% RSD	3.1		≤ 15	2.73		

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/26/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1241
Instrument ID: MSE

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Bis(2-ethylhexyl) Phthalate	TRG	AverageRF	% RSD	10.0		≤ 15	1.01		
Butyl Benzyl Phthalate	TRG	AverageRF	% RSD	6.5		≤ 15	0.778		
Chrysene	TRG	AverageRF	% RSD	1.1		≤ 15	1.09		
Di-n-butyl Phthalate	TRG	AverageRF	% RSD	6.3		≤ 15	1.23		
‡ Di-n-octyl Phthalate	TRG	AverageRF	% RSD	21.3		≤ 30	2.58		
Dibenz(a,h)anthracene	TRG	AverageRF	% RSD	9.7		≤ 15	0.795		
Dibenzofuran	TRG	AverageRF	% RSD	0.5		≤ 15	1.58		
Diethyl Phthalate	TRG	AverageRF	% RSD	2.1		≤ 15	1.25		
Dimethyl Phthalate	TRG	AverageRF	% RSD	2.2		≤ 15	1.24		
‡ Fluoranthene	TRG	AverageRF	% RSD	4.0		≤ 30	0.954		
Fluorene	TRG	AverageRF	% RSD	1.6		≤ 15	1.29		
Hexachlorobenzene	TRG	AverageRF	% RSD	1.3		≤ 15	0.221		
‡ Hexachlorobutadiene	TRG	AverageRF	% RSD	1.0		≤ 30	0.155		
† Hexachlorocyclopentadiene	TRG	AverageRF	% RSD	3.7		≤ 15	0.318		0.05
Hexachloroethane	TRG	AverageRF	% RSD	1.5		≤ 15	0.606		
Indeno(1,2,3-cd)pyrene	TRG	AverageRF	% RSD	10.4		≤ 15	0.924		
Isophorone	TRG	AverageRF	% RSD	3.6		≤ 15	0.637		
† N-Nitrosodi-n-propylamine	MS	AverageRF	% RSD	3.1		≤ 15	0.967		0.05
N-Nitrosodimethylamine	TRG	AverageRF	% RSD	1.8		≤ 15	0.762		
‡ N-Nitrosodiphenylamine	TRG	AverageRF	% RSD	5.8		≤ 15	0.571		
Naphthalene	TRG	AverageRF	% RSD	1.4		≤ 15	1.05		
Nitrobenzene	TRG	AverageRF	% RSD	1.1		≤ 15	0.355		
‡ Pentachlorophenol	MS	AverageRF	% RSD	10.1		≤ 30	0.147		
Phenanthrene	TRG	AverageRF	% RSD	0.8		≤ 15	1.12		
‡ Phenol	MS	AverageRF	% RSD	1.3		≤ 30	1.74		
Pyrene	MS	AverageRF	% RSD	4.6		≤ 15	1.73		
Pyridine	TRG	AverageRF	% RSD	1.0		≤ 15	1.52		
2,4,6-Tribromophenol	SURR	AverageRF	% RSD	8.2		≤ 15	0.0959		
2-Fluorobiphenyl	SURR	AverageRF	% RSD	0.5		≤ 15	1.26		
2-Fluorophenol	SURR	AverageRF	% RSD	1.8		≤ 15	1.27		
Nitrobenzene-d5	SURR	AverageRF	% RSD	2.8		≤ 15	0.338		
Phenol-d5	SURR	AverageRF	% RSD	1.4		≤ 15	1.65		
Terphenyl-d14	SURR	AverageRF	% RSD	5.2		≤ 15	1.12		

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Initial Calibration - Summary Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
1,4-Dioxane	MS	AverageRF		0.586	15	2.1			OK	
N-Nitrosodimethylamine	TRG	AverageRF		0.762	15	1.8			OK	
Pyridine	TRG	AverageRF		1.520	15	1.0			OK	
PGMEA	TRG	AverageRF		2.753	15	2.3			OK	
2-Fluorophenol	SURR	AverageRF		1.274	15	1.8			NA	
Phenol-d5	SURR	AverageRF		1.651	15	1.4			NA	
Phenol	MS	AverageRF		1.739	15	1.3			OK	
Aniline	TRG	AverageRF		2.014	15	6.2			OK	
Bis(2-chloroethyl) Ether	TRG	AverageRF		1.431	15	1.4			OK	
2-Chlorophenol	MS	AverageRF		1.474	15	1.5			OK	
1,3-Dichlorobenzene	TRG	AverageRF		1.613	15	1.4			OK	
1,4-Dichlorobenzene	MS	AverageRF		1.647	15	1.8			OK	
Benzyl alcohol	TRG	AverageRF		0.940	15	3.4			OK	
1,2-Dichlorobenzene	TRG	AverageRF		1.537	15	0.9			OK	
1-Methyl-2-pyrrolidinone	TRG	AverageRF		0.935	15	4.6			OK	
2-Methylphenol	TRG	AverageRF		1.293	15	1.7			OK	
Bis(2-Chloroisopropyl)ether	TRG	AverageRF		2.729	15	3.1			OK	
4-Methylphenol	TRG	AverageRF		1.638	15	3.1			OK	
N-Nitrosodi-n-propylamine	MS	AverageRF	0.050	0.967	15	3.1			OK	
Hexachloroethane	TRG	AverageRF		0.606	15	1.5			OK	
Nitrobenzene-d5	SURR	AverageRF		0.338	15	2.8			NA	
Nitrobenzene	TRG	AverageRF		0.355	15	1.1			OK	
Isophorone	TRG	AverageRF		0.637	15	3.6			OK	
2-Nitrophenol	TRG	AverageRF		0.200	15	12.4			OK	
2,4-Dimethylphenol	TRG	AverageRF		0.324	15	1.7			OK	
Benzoic acid	TRG	AverageRF		0.213	15	13.2			OK	
bis(2-Chloroethoxy)methane	TRG	AverageRF		0.400	15	1.2			OK	
2,4-Dichlorophenol	TRG	AverageRF		0.274	15	2.5			OK	
1,2,4-Trichlorobenzene	MS	AverageRF		0.296	15	1.1			OK	
Naphthalene	TRG	AverageRF		1.048	15	1.4			OK	
4-Chloroaniline	TRG	AverageRF		0.366	15	11.6			OK	
Hexachlorobutadiene	TRG	AverageRF		0.155	15	1.0			OK	
4-Chloro-3-methylphenol	MS	AverageRF		0.280	15	6.2			OK	
2-Methylnaphthalene	TRG	AverageRF		0.707	15	1.2			OK	
Hexachlorocyclopentadiene	TRG	AverageRF	0.050	0.318	15	3.7			OK	
2,4,6-Trichlorophenol	TRG	AverageRF		0.329	15	5.0			OK	
2,4,5-Trichlorophenol	TRG	AverageRF		0.357	15	4.7			OK	
2-Fluorobiphenyl	SURR	AverageRF		1.261	15	0.5			NA	
2-Chloronaphthalene	TRG	AverageRF		1.127	15	0.9			OK	
2-Nitroaniline	TRG	AverageRF		0.347	15	8.6			OK	
Dimethyl Phthalate	TRG	AverageRF		1.237	15	2.2			OK	
Acenaphthylene	TRG	AverageRF		1.833	15	2.1			OK	
2,6-Dinitrotoluene	TRG	AverageRF		0.289	15	6.7			OK	
3-Nitroaniline	TRG	Quadratic		0.238			0.99	0.9929	OK	2.79 *
Acenaphthene	MS	AverageRF		1.208	15	4.4			OK	
2,4-Dinitrophenol	TRG	AverageRF	0.050	0.173	15	12.5			OK	
4-Nitrophenol	MS	AverageRF	0.050	0.142	15	12.3			OK	
Dibenzofuran	TRG	AverageRF		1.579	15	0.5			OK	
2,4-Dinitrotoluene	MS	AverageRF		0.369	15	6.9			OK	
Fluorene	TRG	AverageRF		1.285	15	1.6			OK	
Diethyl Phthalate	TRG	AverageRF		1.246	15	2.1			OK	
4-Chlorophenyl Phenyl Ether	TRG	AverageRF		0.555	15	1.6			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
4-Nitroaniline	TRG	Quadratic		0.210			0.99	0.9956	OK	3.15*
2-Methyl-4,6-dinitrophenol	TRG	AverageRF		0.133	15	11.2			OK	
N-Nitrosodiphenylamine	TRG	AverageRF		0.571	15	5.8			OK	
Azobenzene	TRG	AverageRF		0.818	15	1.5			OK	
2,4,6-Tribromophenol	SURR	AverageRF		0.096	15	8.2			NA	
4-Bromophenyl Phenyl Ether	TRG	AverageRF		0.210	15	1.8			OK	
Hexachlorobenzene	TRG	AverageRF		0.221	15	1.3			OK	
Pentachlorophenol	MS	AverageRF		0.147	15	10.1			OK	
Phenanthrene	TRG	AverageRF		1.120	15	0.8			OK	
Anthracene	TRG	AverageRF		1.095	15	2.1			OK	
Carbazole	TRG	Quadratic		0.702			0.99	0.9974	OK	-23.20*
Di-n-butyl Phthalate	TRG	AverageRF		1.226	15	6.3			OK	
Fluoranthene	TRG	AverageRF		0.954	15	4.0			OK	
Benzidine	TRG	AverageRF		0.506	15	13.3			OK	
Pyrene	MS	AverageRF		1.729	15	4.6			OK	
Terphenyl-d14	SURR	AverageRF		1.118	15	5.2			NA	
Butyl Benzyl Phthalate	TRG	AverageRF		0.778	15	6.5			OK	
3,3'-Dichlorobenzidine	TRG	Quadratic		0.294			0.99	0.9949	OK	2.94
Benz(a)anthracene	TRG	AverageRF		1.162	15	2.2			OK	
Chrysene	TRG	AverageRF		1.091	15	1.1			OK	
Bis(2-ethylhexyl) Phthalate	TRG	AverageRF		1.010	15	10.0			OK	
Mirex	TRG	AverageRF		0.217	15	11.3			OK	
Di-n-octyl Phthalate	TRG	AverageRF		2.579	15	21.3*			OK	
Benzo(b)fluoranthene	TRG	AverageRF		1.451	15	6.4			OK	
Benzo(k)fluoranthene	TRG	AverageRF		1.406	15	5.5			OK	
Benzo(a)pyrene	TRG	AverageRF		1.143	15	6.1			OK	
Indeno(1,2,3-cd)pyrene	TRG	AverageRF		0.924	15	10.4			OK	
Dibenz(a,h)anthracene	TRG	AverageRF		0.795	15	9.7			OK	
Benzo(g,h,i)perylene	TRG	AverageRF		0.762	15	10.0			OK	

Method Specified Maximum Average %RSD = 15.0 **Calculated Average %RSD =** 5.5

Initial Calibration - Summary Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS

SPCC and CCC Evaluations

Parameter Name	Type	SPCC Criteria	SPCC Result	CCC Criteria	CCC Result
Phenol	CCC			30	1.3
1,4-Dichlorobenzene	CCC			30	1.8
N-Nitrosodi-n-propylamine	SPCC	0.050	0.967		
2-Nitrophenol	CCC			30	12.4
2,4-Dichlorophenol	CCC			30	2.5
Hexachlorobutadiene	CCC			30	1.0
Hexachlorocyclopentadiene	SPCC	0.050	0.318		
2,4,6-Trichlorophenol	CCC			30	5.0
Acenaphthene	CCC			30	4.4
2,4-Dinitrophenol	SPCC	0.050	0.173		
4-Nitrophenol	SPCC	0.050	0.142		
N-Nitrosodiphenylamine	CCC			30	5.8
Pentachlorophenol	CCC			30	10.1
Fluoranthene	CCC			30	4.0
Di-n-octyl Phthalate	CCC			30	21.3
Benzo(a)pyrene	CCC			30	6.1

Initial Calibration - Detailed Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
15398	C:\MSDCHEM\1\DATA\E061226\E061879.D	12/26/2006 14:51	12/27/2006 09:07	12/27/2006 13:48
15399	C:\MSDCHEM\1\DATA\E061226\E061880.D	12/26/2006 15:23	12/27/2006 09:05	12/27/2006 13:48
15400	C:\MSDCHEM\1\DATA\E061226\E061881.D	12/26/2006 15:56	12/27/2006 08:56	12/27/2006 13:48
15401	C:\MSDCHEM\1\DATA\E061226\E061882.D	12/26/2006 16:28	12/27/2006 08:58	12/27/2006 13:48
15402	C:\MSDCHEM\1\DATA\E061226\E061883.D	12/26/2006 17:01	12/27/2006 09:00	12/27/2006 13:48
15403	C:\MSDCHEM\1\DATA\E061226\E061884.D	12/26/2006 17:33	12/27/2006 09:02	12/27/2006 13:48
15404	C:\MSDCHEM\1\DATA\E061226\E061885.D	12/26/2006 18:05	12/27/2006 09:03	12/27/2006 13:48

	FileID							Mean	
Parameter Name	15398	15399	15400	15401	15402	15403	15404	RF	%RSD
1,4-Dioxane	0.587	0.604	0.593	0.587	0.588	0.570	0.570	0.586	2.1
N-Nitrosodimethylamine	0.779	0.777	0.753	0.770	0.756	0.746	0.750	0.762	1.8
Pyridine	1.542	1.518	1.508	1.536	1.528	1.507	1.504	1.520	1.0
PGMEA	2.821	2.796	2.814	2.782	2.700	2.673	2.687	2.753	2.3
2-Fluorophenol	1.228	1.261	1.273	1.293	1.290	1.287	1.283	1.274	1.8
Phenol-d5	1.622	1.624	1.638	1.675	1.661	1.662	1.672	1.651	1.4
Phenol	1.704	1.718	1.752	1.770	1.741	1.739	1.749	1.739	1.3
Aniline	1.772	1.909	2.072	2.067	2.086	2.091	2.097	2.014	6.2
Bis(2-chloroethyl) Ether	1.459	1.436	1.430	1.454	1.419	1.411	1.406	1.431	1.4
2-Chlorophenol	1.452	1.442	1.460	1.490	1.495	1.486	1.494	1.474	1.5
1,3-Dichlorobenzene	1.660	1.616	1.600	1.617	1.608	1.594	1.597	1.613	1.4
1,4-Dichlorobenzene	1.695	1.676	1.652	1.649	1.627	1.615	1.619	1.647	1.8
Benzyl alcohol	0.899	0.896	0.931	0.964	0.962	0.959	0.969	0.940	3.4
1,2-Dichlorobenzene	1.547	1.563	1.529	1.529	1.535	1.531	1.524	1.537	0.9
1-Methyl-2-pyrrolidinone	0.858	0.907	0.913	0.964	0.960	0.969	0.974	0.935	4.6
2-Methylphenol	1.278	1.254	1.286	1.318	1.301	1.300	1.315	1.293	1.7
Bis(2-Chloroisopropyl)ether	2.815	2.776	2.796	2.786	2.681	2.644	2.603	2.729	3.1
4-Methylphenol	1.563	1.578	1.619	1.676	1.661	1.681	1.686	1.638	3.1
N-Nitrosodi-n-propylamine	0.920	0.941	0.951	0.974	0.990	0.991	1.001	0.967	3.1
Hexachloroethane	0.589	0.598	0.612	0.611	0.607	0.610	0.615	0.606	1.5
Nitrobenzene-d5	0.320	0.329	0.340	0.343	0.346	0.346	0.342	0.338	2.8
Nitrobenzene	0.350	0.349	0.357	0.360	0.357	0.357	0.355	0.355	1.1
Isophorone	0.593	0.621	0.639	0.650	0.657	0.653	0.645	0.637	3.6
2-Nitrophenol	0.172	0.181	0.204	0.250	0.196	0.200	0.197	0.200	12.4
2,4-Dimethylphenol	0.315	0.324	0.319	0.329	0.329	0.327	0.326	0.324	1.7
Benzoic acid		0.165	0.194	0.224	0.229	0.234	0.232	0.213	13.2
bis(2-Chloroethoxy)methane	0.396	0.405	0.403	0.404	0.402	0.398	0.392	0.400	1.2
2,4-Dichlorophenol	0.261	0.269	0.279	0.278	0.281	0.276	0.277	0.274	2.5
1,2,4-Trichlorobenzene	0.293	0.300	0.300	0.296	0.295	0.293	0.292	0.296	1.1
Naphthalene	1.053	1.060	1.070	1.046	1.039	1.041	1.027	1.048	1.4
4-Chloroaniline	0.315	0.350	0.349	0.321	0.412	0.409	0.407	0.366	11.6
Hexachlorobutadiene	0.153	0.155	0.156	0.154	0.157	0.157	0.155	0.155	1.0
4-Chloro-3-methylphenol	0.246	0.270	0.280	0.288	0.294	0.293	0.292	0.280	6.2
2-Methylnaphthalene	0.694	0.703	0.711	0.718	0.710	0.713	0.702	0.707	1.2
Hexachlorocyclopentadiene	0.297	0.307	0.319	0.322	0.327	0.329	0.327	0.318	3.7
2,4,6-Trichlorophenol	0.299	0.320	0.323	0.335	0.338	0.344	0.346	0.329	5.0
2,4,5-Trichlorophenol	0.328	0.345	0.351	0.364	0.366	0.371	0.375	0.357	4.7
2-Fluorobiphenyl	1.258	1.267	1.272	1.255	1.253	1.263	1.260	1.261	0.5
2-Chloronaphthalene	1.122	1.146	1.131	1.127	1.125	1.129	1.113	1.127	0.9
2-Nitroaniline	0.300	0.314	0.342	0.356	0.362	0.376	0.375	0.347	8.6

Initial Calibration - Detailed Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	AverageRF

	FileID							Mean	
Parameter Name	**15398**	**15399**	**15400**	**15401**	**15402**	**15403**	**15404**	**RF**	**%RSD**
Dimethyl Phthalate	1.184	1.219	1.239	1.254	1.247	1.257	1.257	1.237	2.2
Acenaphthylene	1.755	1.812	1.855	1.861	1.835	1.867	1.847	1.833	2.1
2,6-Dinitrotoluene	0.255	0.270	0.290	0.298	0.301	0.305	0.306	0.289	6.7
3-Nitroaniline	0.235	0.249	0.191	0.156	0.261	0.286	0.288	0.238	20.6#
Acenaphthene	1.182	1.221	1.247	1.261	1.264	1.133	1.152	1.208	4.4
2,4-Dinitrophenol			0.138	0.169	0.176	0.189	0.191	0.173	12.5
4-Nitrophenol	0.114	0.124	0.136	0.155	0.148	0.158	0.157	0.142	12.3
Dibenzofuran	1.568	1.589	1.572	1.586	1.578	1.588	1.574	1.579	0.5
2,4-Dinitrotoluene	0.326	0.349	0.359	0.386	0.385	0.390	0.392	0.369	6.9
Fluorene	1.252	1.267	1.281	1.294	1.289	1.302	1.313	1.285	1.6
Diethyl Phthalate	1.197	1.227	1.244	1.254	1.269	1.260	1.269	1.246	2.1
4-Chlorophenyl Phenyl Ether	0.537	0.562	0.553	0.559	0.555	0.560	0.559	0.555	1.6
4-Nitroaniline	0.217	0.188	0.137	0.168	0.230	0.263	0.265	0.210	23.0#
2-Methyl-4,6-dinitrophenol		0.107	0.124	0.138	0.142	0.145	0.145	0.133	11.2
N-Nitrosodiphenylamine	0.580	0.598	0.584	0.502	0.564	0.574	0.597	0.571	5.8
Azobenzene	0.804	0.815	0.838	0.824	0.825	0.803	0.816	0.818	1.5
2,4,6-Tribromophenol	0.082	0.089	0.095	0.099	0.101	0.102	0.104	0.096	8.2
4-Bromophenyl Phenyl Ether	0.204	0.210	0.208	0.209	0.213	0.212	0.215	0.210	1.8
Hexachlorobenzene	0.221	0.222	0.224	0.217	0.223	0.218	0.224	0.221	1.3
Pentachlorophenol		0.121	0.137	0.149	0.155	0.157	0.161	0.147	10.1
Phenanthrene	1.131	1.122	1.125	1.127	1.111	1.106	1.115	1.120	0.8
Anthracene	1.051	1.078	1.103	1.115	1.107	1.099	1.114	1.095	2.1
Carbazole	0.894	0.864	0.668	0.395	0.531	0.713	0.852	0.702	26.7#
Di-n-butyl Phthalate	1.074	1.168	1.257	1.270	1.285	1.254	1.272	1.226	6.3
Fluoranthene	0.890	0.921	0.952	1.004	0.961	0.968	0.981	0.954	4.0
Benzidine	0.395	0.574	0.588	0.542	0.486	0.466	0.490	0.506	13.3
Pyrene	1.601	1.712	1.710	1.737	1.870	1.758	1.711	1.729	4.6
Terphenyl-d14	1.028	1.079	1.112	1.118	1.219	1.142	1.128	1.118	5.2
Butyl Benzyl Phthalate	0.738	0.708	0.760	0.792	0.867	0.796	0.785	0.778	6.5
3,3'-Dichlorobenzidine	0.309	0.273	0.270	0.223	0.276	0.349	0.358	0.294	16.2#
Benz(a)anthracene	1.148	1.121	1.142	1.174	1.180	1.184	1.185	1.162	2.2
Chrysene	1.116	1.087	1.090	1.094	1.077	1.083	1.087	1.091	1.1
Bis(2-ethylhexyl) Phthalate	0.850	0.913	1.001	1.037	1.154	1.052	1.061	1.010	10.0
Mirex	0.173	0.200	0.220	0.220	0.249	0.230	0.228	0.217	11.3
Di-n-octyl Phthalate	1.872	1.963	2.345	2.833	3.408	2.911	2.722	2.579	21.3*
Benzo(b)fluoranthene	1.579	1.341	1.322	1.439	1.521	1.486	1.466	1.451	6.4
Benzo(k)fluoranthene	1.574	1.350	1.357	1.391	1.418	1.385	1.369	1.406	5.5
Benzo(a)pyrene	1.206	1.028	1.068	1.140	1.169	1.188	1.199	1.143	6.1
Indeno(1,2,3-cd)pyrene	0.926	0.819	0.865	0.869	0.884	1.009	1.095	0.924	10.4
Dibenz(a,h)anthracene	0.763	0.726	0.754	0.754	0.765	0.865	0.941	0.795	9.7
Benzo(g,h,i)perylene	0.728	0.700	0.729	0.717	0.725	0.827	0.907	0.762	10.0

 # RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

Alternate Calibration Evaluation Summary

Maximum Allowable Average %RSD =	15.0
Calculated Average %RSD =	5.5

1 compound out of 81 failed Maximum %RSD criteria

Initial Calibration - Detailed Report

Calibration ID:	CAL1241	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	Quadratic

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
15398	C:\MSDCHEM\1\DATA\E061226\E061879.D	12/26/2006 14:51	12/27/2006 09:07	12/27/2006 13:48
15399	C:\MSDCHEM\1\DATA\E061226\E061880.D	12/26/2006 15:23	12/27/2006 09:05	12/27/2006 13:48
15400	C:\MSDCHEM\1\DATA\E061226\E061881.D	12/26/2006 15:56	12/27/2006 08:56	12/27/2006 13:48
15401	C:\MSDCHEM\1\DATA\E061226\E061882.D	12/26/2006 16:28	12/27/2006 08:58	12/27/2006 13:48
15402	C:\MSDCHEM\1\DATA\E061226\E061883.D	12/26/2006 17:01	12/27/2006 09:00	12/27/2006 13:48
15403	C:\MSDCHEM\1\DATA\E061226\E061884.D	12/26/2006 17:33	12/27/2006 09:02	12/27/2006 13:48
15404	C:\MSDCHEM\1\DATA\E061226\E061885.D	12/26/2006 18:05	12/27/2006 09:03	12/27/2006 13:48

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
3-Nitroaniline	0.028	0.226	-0.010	0.9929	0.238
4-Nitroaniline	0.026	0.210	-0.011	0.9956	0.210
Carbazole	0.253	0.203	0.055	0.9974	0.702
3,3'-Dichlorobenzidine	0.027	0.228	-0.001	0.9949	0.294

Second Source Calibration Verification Summary

CalibrationID: CAL1241

Method ID: MJ360

DataFile Location: C:\MSDCHEM\1\DATA\E061226\E061886.D

Units: ug/L

Column: MS

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
1,4-Dioxane	15405	AverageRF	30	0.586	0.558	-4.8	50.00	47.6	
N-Nitrosodimethylamine	15405	AverageRF	30	0.762	0.780	2.4	50.00	51.2	
Pyridine	15405	AverageRF	30	1.520	1.474	-3.0	50.00	48.5	
PGMEA	15405	AverageRF	30	2.753	2.666	-3.2	50.00	48.4	
Phenol	15405	AverageRF	30	1.739	1.735	-0.2	50.00	49.9	
Aniline	15405	AverageRF	30	2.014	2.030	0.8	50.00	50.4	
Bis(2-chloroethyl) Ether	15405	AverageRF	30	1.431	1.417	-1.0	50.00	49.5	
2-Chlorophenol	15405	AverageRF	30	1.474	1.459	-1.0	50.00	49.5	
1,3-Dichlorobenzene	15405	AverageRF	30	1.613	1.608	-0.3	50.00	49.8	
1,4-Dichlorobenzene	15405	AverageRF	30	1.647	1.640	-0.4	50.00	49.8	
Benzyl alcohol	15405	AverageRF	30	0.940	0.944	0.5	50.00	50.2	
1,2-Dichlorobenzene	15405	AverageRF	30	1.537	1.545	0.6	50.00	50.3	
1-Methyl-2-pyrrolidinone	15405	AverageRF	30	0.935	0.950	1.6	50.00	50.8	
2-Methylphenol	15405	AverageRF	30	1.293	1.316	1.8	50.00	50.9	
Bis(2-Chloroisopropyl)ether	15405	AverageRF	30	2.729	2.281	-16.4	50.00	41.8	
4-Methylphenol	15405	AverageRF	30	1.638	1.691	3.2	50.00	51.6	
N-Nitrosodi-n-propylamine	15405	AverageRF	30	0.967	1.001	3.5	50.00	51.8	
Hexachloroethane	15405	AverageRF	30	0.606	0.608	0.3	50.00	50.1	
Nitrobenzene	15405	AverageRF	30	0.355	0.359	1.1	50.00	50.6	
Isophorone	15405	AverageRF	30	0.637	0.678	6.4	50.00	53.2	
2-Nitrophenol	15405	AverageRF	30	0.200	0.185	-7.7	50.00	46.1	
2,4-Dimethylphenol	15405	AverageRF	30	0.324	0.318	-1.9	50.00	49.0	
Benzoic acid	15405	AverageRF	30	0.213	0.210	-1.3	50.00	49.4	
bis(2-Chloroethoxy)methane	15405	AverageRF	30	0.400	0.368	-7.9	50.00	46.0	
2,4-Dichlorophenol	15405	AverageRF	30	0.274	0.279	1.8	50.00	50.9	
1,2,4-Trichlorobenzene	15405	AverageRF	30	0.296	0.292	-1.3	50.00	49.3	
Naphthalene	15405	AverageRF	30	1.048	1.043	-0.4	50.00	49.8	
4-Chloroaniline	15405	AverageRF	30	0.366	0.413	12.6	50.00	56.3	
Hexachlorobutadiene	15405	AverageRF	30	0.155	0.158	1.7	50.00	50.9	
4-Chloro-3-methylphenol	15405	AverageRF	30	0.280	0.288	2.8	50.00	51.4	
2-Methylnaphthalene	15405	AverageRF	30	0.707	0.703	-0.6	50.00	49.7	
Hexachlorocyclopentadiene	15405	AverageRF	30	0.318	0.270	-15.0	50.00	42.5	
2,4,6-Trichlorophenol	15405	AverageRF	30	0.329	0.336	1.9	50.00	50.9	
2,4,5-Trichlorophenol	15405	AverageRF	30	0.357	0.368	3.2	50.00	51.6	
2-Chloronaphthalene	15405	AverageRF	30	1.127	1.123	-0.4	50.00	49.8	
2-Nitroaniline	15405	AverageRF	30	0.347	0.369	6.6	50.00	53.3	
Dimethyl Phthalate	15405	AverageRF	30	1.237	1.260	1.9	50.00	50.9	
Acenaphthylene	15405	AverageRF	30	1.833	1.707	-6.9	50.00	46.6	
2,6-Dinitrotoluene	15405	AverageRF	30	0.289	0.313	8.4	50.00	54.2	
3-Nitroaniline	15405	Quadratic	30				50.00	56.1	12.3
Acenaphthene	15405	AverageRF	30	1.208	1.290	6.7	50.00	53.4	
2,4-Dinitrophenol	15405	AverageRF	30	0.173	0.189	9.7	100.00	109.7	
4-Nitrophenol	15405	AverageRF	30	0.142	0.157	11.1	100.00	111.1	
Dibenzofuran	15405	AverageRF	30	1.579	1.561	-1.2	50.00	49.4	
2,4-Dinitrotoluene	15405	AverageRF	30	0.369	0.387	4.7	50.00	52.3	
Fluorene	15405	AverageRF	30	1.285	1.296	0.8	50.00	50.4	
Diethyl Phthalate	15405	AverageRF	30	1.246	1.272	2.1	50.00	51.0	

Second Source Calibration Verification Summary

CalibrationID: CAL1241 **Units:** ug/L

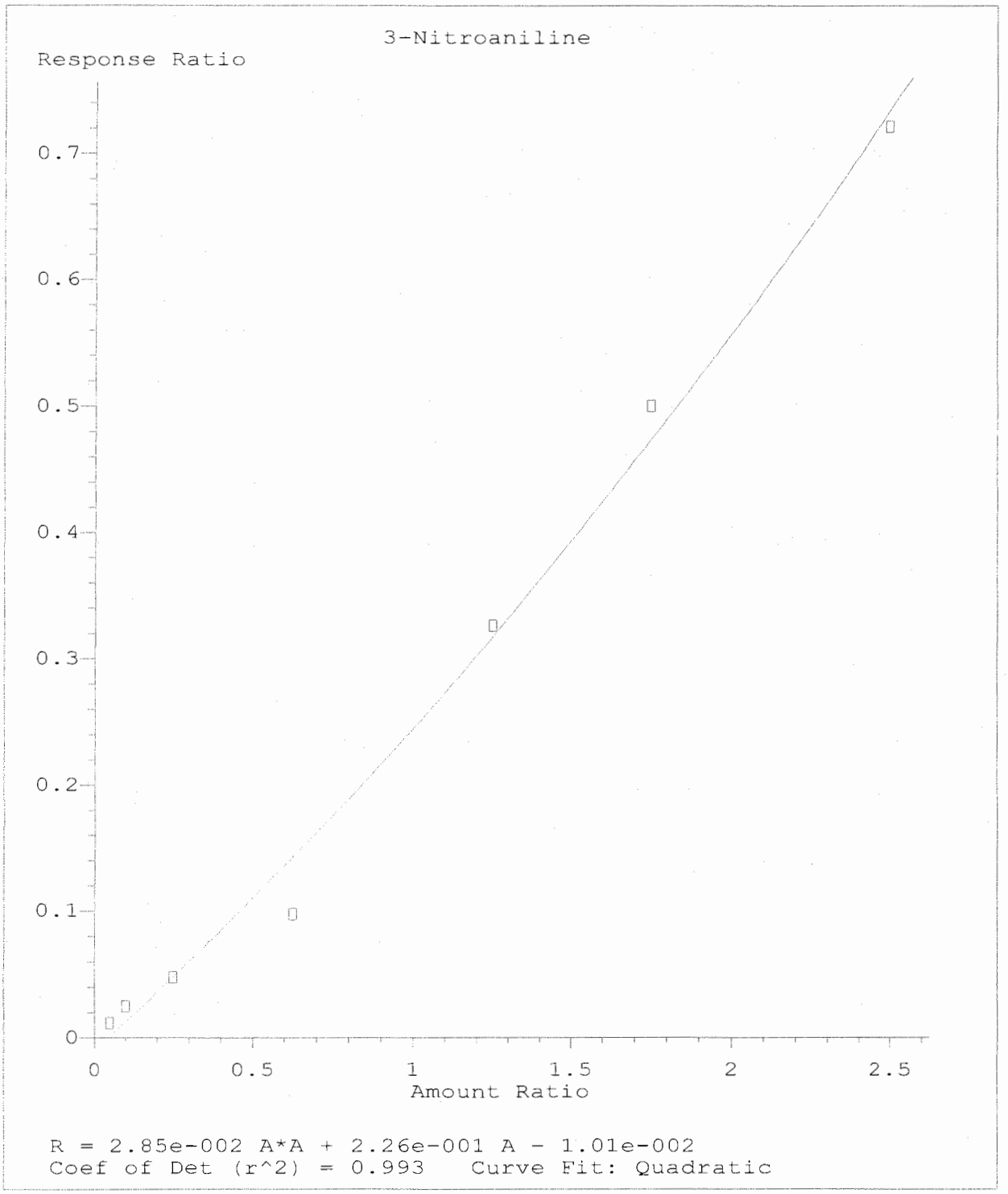
Method ID: MJ360 **Column:** MS

DataFile Location: C:\MSDCHEM\1\DATA\E061226\E061886.D

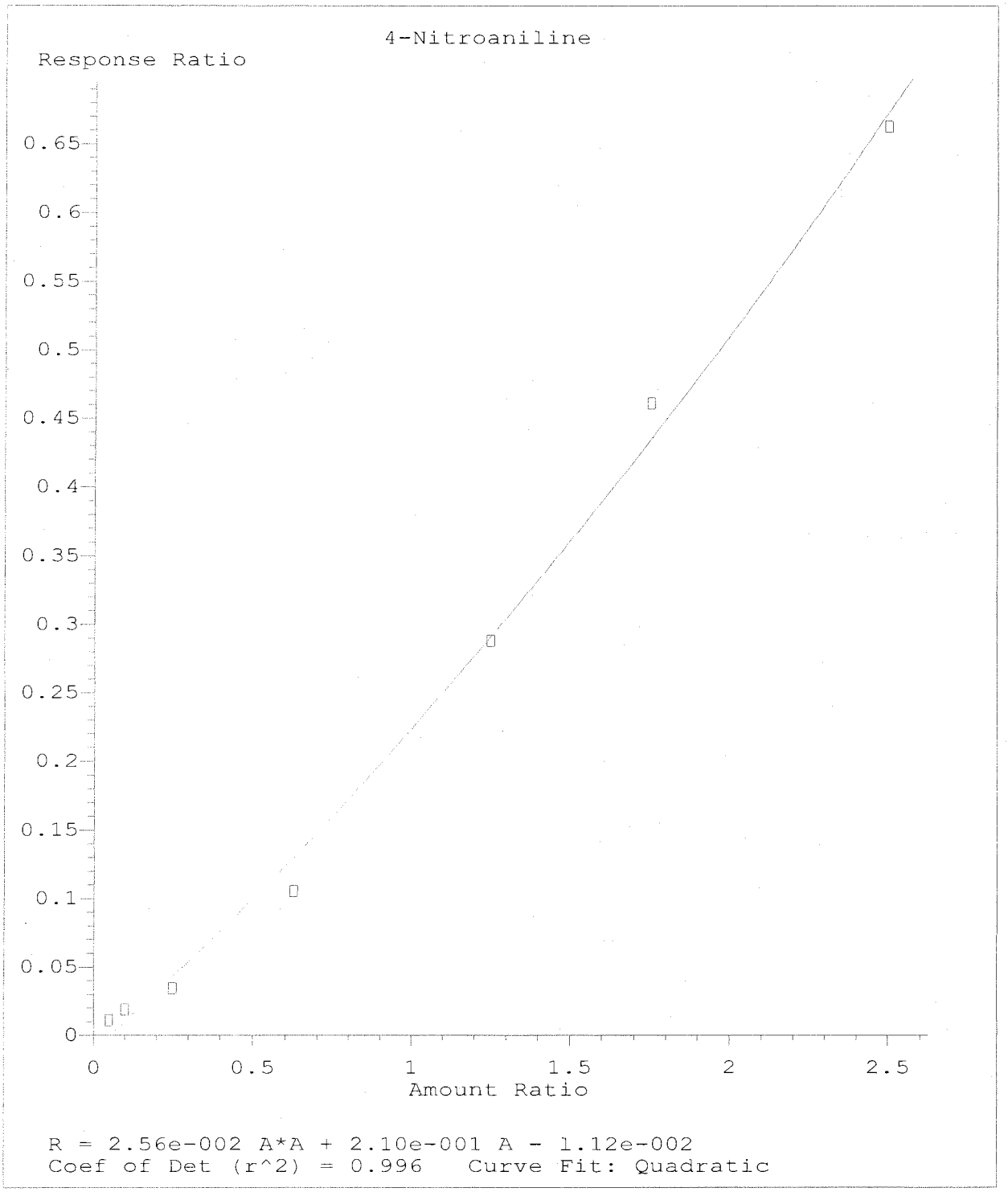
Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
4-Chlorophenyl Phenyl Ether	15405	AverageRF	30	0.555	0.562	1.2	50.00	50.6	
4-Nitroaniline	15405	Quadratic	30				50.00	57.1	14.1
2-Methyl-4,6-dinitrophenol	15405	AverageRF	30	0.133	0.153	14.9	100.00	114.9	
N-Nitrosodiphenylamine	15405	AverageRF	30	0.571	0.519	-9.2	50.00	45.4	
Azobenzene	15405	AverageRF	30	0.818	0.813	-0.6	50.00	49.7	
4-Bromophenyl Phenyl Ether	15405	AverageRF	30	0.210	0.212	1.0	50.00	50.5	
Hexachlorobenzene	15405	AverageRF	30	0.221	0.219	-0.9	50.00	49.5	
Pentachlorophenol	15405	AverageRF	30	0.147	0.157	6.9	100.00	106.9	
Phenanthrene	15405	AverageRF	30	1.120	1.086	-3.0	50.00	48.5	
Anthracene	15405	AverageRF	30	1.095	1.108	1.2	50.00	50.6	
Carbazole	15405	Quadratic	30				50.00	53.2	6.3
Di-n-butyl Phthalate	15405	AverageRF	30	1.226	1.300	6.0	50.00	53.0	
Fluoranthene	15405	AverageRF	30	0.954	1.022	7.1	50.00	53.5	
Benzidine	15405	AverageRF	30	0.506	0.437	-13.6	100.00	86.4	
Pyrene	15405	AverageRF	30	1.729	1.672	-3.3	50.00	48.4	
Butyl Benzyl Phthalate	15405	AverageRF	30	0.778	0.801	2.9	50.00	51.5	
3,3'-Dichlorobenzidine	15405	Quadratic	30				100.00	104.6	4.6
Benz(a)anthracene	15405	AverageRF	30	1.162	1.209	4.0	50.00	52.0	
Chrysene	15405	AverageRF	30	1.091	1.100	0.8	50.00	50.4	
Bis(2-ethylhexyl) Phthalate	15405	AverageRF	30	1.010	1.068	5.8	50.00	52.9	
Mirex	15405	AverageRF	30	0.217	0.218	0.1	25.00	25.0	
Di-n-octyl Phthalate	15405	AverageRF	30	2.579	2.739	6.2	50.00	53.1	
Benzo(b)fluoranthene	15405	AverageRF	30	1.451	1.421	-2.0	50.00	49.0	
Benzo(k)fluoranthene	15405	AverageRF	30	1.406	1.380	-1.8	50.00	49.1	
Benzo(a)pyrene	15405	AverageRF	30	1.143	1.195	4.5	50.00	52.3	
Indeno(1,2,3-cd)pyrene	15405	AverageRF	30	0.924	1.010	9.4	50.00	54.7	
Dibenz(a,h)anthracene	15405	AverageRF	30	0.795	0.811	1.9	50.00	51.0	
Benzo(g,h,i)perylene	15405	AverageRF	30	0.762	0.801	5.1	50.00	52.5	

Alternate Calibration Evaluation Summary

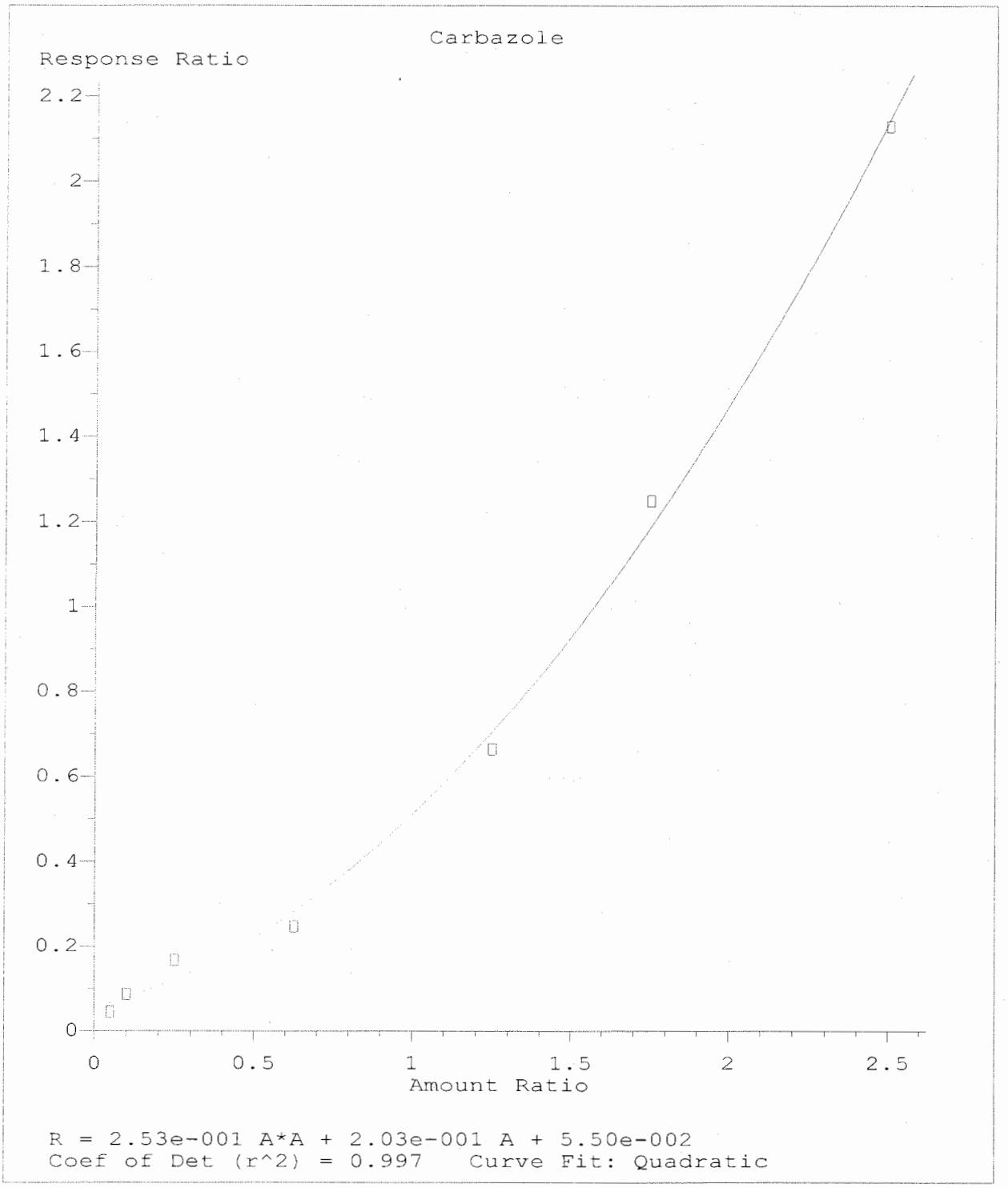
Maximum Allowable Average %D =	0.0
Calculated Average %D =	4.3



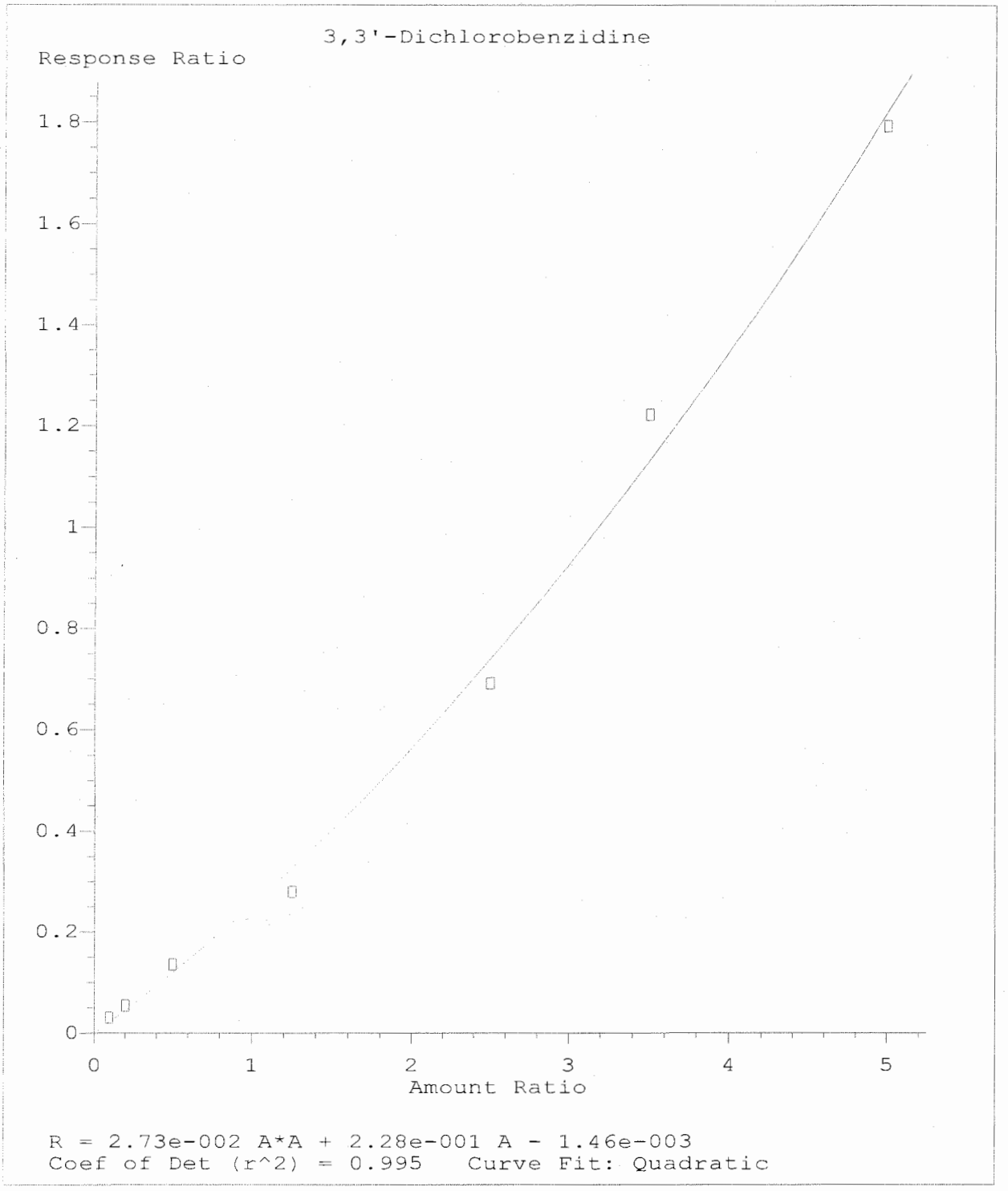
Method Name: C:\MSDCHEM\1\METHODS\BA061226.M
Calibration Table Last Updated: Wed Dec 27 09:26:51 2006



Method Name: C:\MSDCHEM\1\METHODS\BA061226.M
Calibration Table Last Updated: Wed Dec 27 09:46:57 2006



Method Name: C:\MSDCHEM\1\METHODS\BA061226.M
Calibration Table Last Updated: Wed Dec 27 09:47:17 2006



Method Name: C:\MSDCHEM\1\METHODS\BA061226.M
Calibration Table Last Updated: Wed Dec 27 09:47:38 2006

Calibration Status Report MSE

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	2	40	C:\MSDCHEM\1\DATA\E061226\E061879.D
2	2	4	40	C:\MSDCHEM\1\DATA\E061226\E061880.D
3	3	10	40	C:\MSDCHEM\1\DATA\E061226\E061881.D
4	4	25	40	C:\MSDCHEM\1\DATA\E061226\E061882.D
5	5	50	40	C:\MSDCHEM\1\DATA\E061226\E061883.D
6	6	70	40	C:\MSDCHEM\1\DATA\E061226\E061884.D
7	7	100	40	C:\MSDCHEM\1\DATA\E061226\E061885.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Dec 27 09:11 2006	Dec 27 09:07 2006	26 Dec 2006 2:51 pm
2	2	Dec 27 09:11 2006	Dec 27 09:05 2006	26 Dec 2006 3:23 pm
3	3	Dec 27 09:12 2006	Dec 27 08:56 2006	26 Dec 2006 3:56 pm
4	4	Dec 27 09:12 2006	Dec 27 08:58 2006	26 Dec 2006 4:28 pm
5	5	Dec 27 09:12 2006	Dec 27 09:00 2006	26 Dec 2006 5:01 pm
6	6	Dec 27 09:13 2006	Dec 27 09:02 2006	26 Dec 2006 5:33 pm
7	7	Dec 27 09:13 2006	Dec 27 09:03 2006	26 Dec 2006 6:05 pm

BA061226.M Wed Dec 27 09:48:35 2006

DATA ANALYSIS PARAMETERS

Method Name: C:\MSDCHEM\1\METHODS\BA061226.M

Percent Report Settings

Sort By: Signal

Output Destination
Screen: No
Printer: Yes
File: No

Integration Events: Meth Default

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search	Minimum Quality
C:\Database\NIST98.L	0

Integration Events: Meth Default

Report Type: Summary

Output Destination
Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination
Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

MS09 EPA Method 625/8270C
Calibration Last Updated: Wed Dec 27 09:48:07 2006

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes

Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

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1) 1,4-Dichlorobenzene-d4 (ISTD TR)

Ret. Time 6.36 min., Extract & Integrate from 6.06 to 6.66 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	152.00			*** METH DEFAULT ***
Q1	150.00	154.20	20.0	*** METH DEFAULT ***
Q2	115.00	59.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	194464
2		40.000	195783
3		40.000	183318
4		40.000	174410
5		40.000	187948
6		40.000	184673
7		40.000	165487

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

2) 1,4-Dioxane ( )

Ret. Time 3.02 min., Extract & Integrate from 2.72 to 3.32 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	88.10			*** METH DEFAULT ***
Q1	58.00	66.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	5711
2		4.000	11834
3		10.000	27196
4		25.000	63944
5		50.000	138145
6		70.000	184236
7		100.000	236025

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

3) N-Nitrosodimethylamine ( )

Ret. Time 3.37 min., Extract & Integrate from 3.07 to 3.67 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	42.10			*** METH DEFAULT ***
Q1	74.10	123.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	7576
2		4.000	15210
3		10.000	34517
4		25.000	83974
5		50.000	177615
6		70.000	241045
7		100.000	310408

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

4) Pyridine ( )

Ret. Time 3.39 min., Extract & Integrate from 3.09 to 3.69 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 79.10			*** METH DEFAULT ***
Q1 52.00	61.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	14992
2		4.000	29711
3		10.000	69092
4		25.000	167462
5		50.000	359004
6		70.000	486917
7		100.000	622289

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

5) PGMEA ( )

Ret. Time 4.64 min., Extract & Integrate from 4.34 to 4.94 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 43.00			*** METH DEFAULT ***
Q1 58.10	12.10	20.0	*** METH DEFAULT ***
Q2 72.10	25.50	20.0	*** METH DEFAULT ***
Q3 87.10	9.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27425
2		4.000	54739
3		10.000	128981
4		25.000	303263
5		50.000	634263
6		70.000	863719
7		100.000	1111507

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

6) 2-Fluorophenol ( )

Ret. Time 4.73 min., Extract & Integrate from 4.43 to 5.03 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 112.00			*** METH DEFAULT ***
Q1 64.00	63.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	11936
2		4.000	24691
3		10.000	58332
4		25.000	140895
5		50.000	303143
6		70.000	416063
7		100.000	530675

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

7) Phenol-d5 ( )

Ret. Time 5.87 min., Extract & Integrate from 5.57 to 6.17 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 99.10			*** METH DEFAULT ***
Q1 71.10	41.30	20.0	*** METH DEFAULT ***

Q2	42.10	20.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15767
2		4.000	31803
3		10.000	75056
4		25.000	182567
5		50.000	390169
6		70.000	537280
7		100.000	691919

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

8) Phenol ( )

Ret. Time 5.89 min., Extract & Integrate from 5.59 to 6.19 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 94.10			*** METH DEFAULT ***
Q1 66.10	47.90	20.0	*** METH DEFAULT ***
Q2 65.10	33.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	16573
2		4.000	33628
3		10.000	80311
4		25.000	192914
5		50.000	408938
6		70.000	562040
7		100.000	723729

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

9) Aniline ( )

Ret. Time 5.97 min., Extract & Integrate from 5.67 to 6.27 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 93.10			*** METH DEFAULT ***
Q1 66.10	40.00	20.0	*** METH DEFAULT ***
Q2 65.10	21.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	17230
2		4.000	37372
3		10.000	94936
4		25.000	225363
5		50.000	490129
6		70.000	675855
7		100.000	867703

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

10) Bis(2-chloroethyl)ether ( )

Ret. Time 6.03 min., Extract & Integrate from 5.73 to 6.33 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 93.00			*** METH DEFAULT ***
Q1 63.00	73.50	20.0	*** METH DEFAULT ***
Q2 95.00	32.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	14191
2		4.000	28117
3		10.000	65554

4	25.000	158488
5	50.000	333366
6	70.000	455961
7	100.000	581737

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

11) 2-Chlorophenol ( )

Ret. Time 6.12 min., Extract & Integrate from 5.82 to 6.42 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 128.00			*** METH DEFAULT ***
Q1 64.00	48.50	20.0	*** METH DEFAULT ***
Q2 130.00	33.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	14116
2		4.000	28224
3		10.000	66895
4		25.000	162396
5		50.000	351264
6		70.000	480300
7		100.000	617999

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

12) 1,3-Dichlorobenzene ( )

Ret. Time 6.31 min., Extract & Integrate from 6.01 to 6.61 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	63.90	20.0	*** METH DEFAULT ***
Q2 111.00	39.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	16136
2		4.000	31639
3		10.000	73314
4		25.000	176317
5		50.000	377857
6		70.000	515234
7		100.000	660528

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

13) 1,4-Dichlorobenzene ( )

Ret. Time 6.38 min., Extract & Integrate from 6.08 to 6.68 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	64.40	20.0	*** METH DEFAULT ***
Q2 111.00	38.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	16479
2		4.000	32813
3		10.000	75692
4		25.000	179715
5		50.000	382128
6		70.000	521841
7		100.000	669722

Qualifier Peak Analysis ON

Curve Fit: Avg. RF

---

14) Benzyl alcohol ( )

Ret. Time 6.53 min., Extract & Integrate from 6.23 to 6.83 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 108.10			*** METH DEFAULT ***
Q1 79.10	147.00	20.0	*** METH DEFAULT ***
Q2 77.00	98.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	8738
2		4.000	17542
3		10.000	42651
4		25.000	105090
5		50.000	226004
6		70.000	309859
7		100.000	400782

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

15) 1,2-Dichlorobenzene ( )

Ret. Time 6.62 min., Extract & Integrate from 6.32 to 6.92 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	62.10	20.0	*** METH DEFAULT ***
Q2 111.00	41.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15041
2		4.000	30603
3		10.000	70058
4		25.000	166706
5		50.000	360704
6		70.000	494704
7		100.000	630681

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

16) N-Methyl pyrrolidine (NMP) ( )

Ret. Time 6.67 min., Extract & Integrate from 6.37 to 6.97 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 99.10			*** METH DEFAULT ***
Q1 98.10	70.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	8347
2		4.000	17757
3		10.000	41830
4		25.000	105050
5		50.000	225511
6		70.000	313149
7		100.000	402831

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

17) 2-Methylphenol ( )

Ret. Time 6.69 min., Extract & Integrate from 6.39 to 6.99 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	108.10			*** METH DEFAULT ***
Q1	107.10	88.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12428
2		4.000	24554
3		10.000	58958
4		25.000	143686
5		50.000	305620
6		70.000	420284
7		100.000	544091

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

18) Bis(2-chloroisopropyl)ether ( )

Ret. Time 6.73 min., Extract & Integrate from 6.43 to 7.03 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	45.10			*** METH DEFAULT ***
Q1	77.00	17.80	20.0	*** METH DEFAULT ***
Q2	121.10	31.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27369
2		4.000	54348
3		10.000	128124
4		25.000	303697
5		50.000	629933
6		70.000	854351
7		100.000	1077050

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

19) 4-Methylphenol ( )

Ret. Time 6.87 min., Extract & Integrate from 6.57 to 7.17 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	107.10			*** METH DEFAULT ***
Q1	108.10	81.20	20.0	*** METH DEFAULT ***
Q2	77.10	37.30	20.0	*** METH DEFAULT ***
Q3	79.10	26.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15197
2		4.000	30903
3		10.000	74201
4		25.000	182654
5		50.000	390329
6		70.000	543132
7		100.000	697675

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

20) N-Nitrosodi-n-propylamine ( )

Ret. Time 6.92 min., Extract & Integrate from 6.62 to 7.02 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	70.10			*** METH DEFAULT ***
Q1	43.10	89.10	20.0	*** METH DEFAULT ***
Q2	130.10	24.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response

1	2.000	8945
2	4.000	18421
3	10.000	43604
4	25.000	106203
5	50.000	232631
6	70.000	320292
7	100.000	413953

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

21) Hexachloroethane ( )

Ret. Time 7.03 min., Extract & Integrate from 6.73 to 7.33 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 116.90			*** METH DEFAULT ***
Q1 200.90	102.80	20.0	*** METH DEFAULT ***
Q2 198.90	64.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	5728
2		4.000	11713
3		10.000	28059
4		25.000	66655
5		50.000	142528
6		70.000	197069
7		100.000	254330

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

22) Naphthalene-d8 (ISTD TR)

Ret. Time 8.02 min., Extract & Integrate from 7.72 to 8.32 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 136.10			*** METH DEFAULT ***
Q1 68.00	5.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	768067
2		40.000	766038
3		40.000	717819
4		40.000	694619
5		40.000	748255
6		40.000	740240
7		40.000	671716

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

23) Nitrobenzene-d5 ( )

Ret. Time 7.11 min., Extract & Integrate from 6.81 to 7.41 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 82.10			*** METH DEFAULT ***
Q1 128.10	41.90	20.0	*** METH DEFAULT ***
Q2 54.10	50.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12305
2		4.000	25217
3		10.000	60952
4		25.000	148866
5		50.000	323342
6		70.000	447726
7		100.000	574792

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

24) Nitrobenzene ( )

Ret. Time 7.13 min., Extract & Integrate from 6.83 to 7.43 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 77.00			*** METH DEFAULT ***
Q1 123.00	39.60	20.0	*** METH DEFAULT ***
Q2 51.00	49.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	13447
2		4.000	26766
3		10.000	64128
4		25.000	156306
5		50.000	334273
6		70.000	462827
7		100.000	595689

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

25) Isophorone ( )

Ret. Time 7.42 min., Extract & Integrate from 7.12 to 7.72 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 82.10			*** METH DEFAULT ***
Q1 138.10	18.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	22775
2		4.000	47557
3		10.000	114701
4		25.000	282105
5		50.000	614612
6		70.000	846008
7		100.000	1083362

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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26) 2-Nitrophenol ( )

Ret. Time 7.54 min., Extract & Integrate from 7.24 to 7.84 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 139.00			*** METH DEFAULT ***
Q1 65.00	59.10	20.0	*** METH DEFAULT ***
Q2 109.00	38.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6609
2		4.000	13884
3		10.000	36551
4		25.000	108646
5		50.000	183669
6		70.000	258562
7		100.000	330852

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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27) 2,4-Dimethylphenol ( )

Ret. Time 7.55 min., Extract & Integrate from 7.25 to 7.85 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 122.10			*** METH DEFAULT ***
Q1 107.10	130.50	20.0	*** METH DEFAULT ***
Q2 121.10	57.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12088
2		4.000	24842
3		10.000	57167
4		25.000	142653
5		50.000	307860
6		70.000	423389
7		100.000	547068

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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28) Benzoic acid ( )

Ret. Time 7.82 min., Extract & Integrate from 7.52 to 8.12 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 122.10			*** METH DEFAULT ***
Q1 105.10	137.70	20.0	*** METH DEFAULT ***
Q2 77.10	112.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		20.000	63051
3		50.000	173684
4		125.000	487209
5		250.000	1073170
6		350.000	1518271
7		500.000	1949592

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

29) Bis(2-chloroethoxy)methane ( )

Ret. Time 7.68 min., Extract & Integrate from 7.38 to 7.98 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 93.00			*** METH DEFAULT ***
Q1 63.00	69.30	20.0	*** METH DEFAULT ***
Q2 123.00	14.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15226
2		4.000	31041
3		10.000	72278
4		25.000	175598
5		50.000	376231
6		70.000	515808
7		100.000	658159

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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30) 2,4-Dichlorophenol ( )

Ret. Time 7.83 min., Extract & Integrate from 7.53 to 8.13 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 162.00			*** METH DEFAULT ***
Q1 164.00	64.10	20.0	*** METH DEFAULT ***
Q2 98.00	32.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	10016
2		4.000	20641
3		10.000	49991
4		25.000	120784
5		50.000	262590
6		70.000	357560
7		100.000	465830

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

31) 1,2,4-Trichlorobenzene ( )

Ret. Time 7.95 min., Extract & Integrate from 7.65 to 8.25 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	179.90			*** METH DEFAULT ***
Q1	181.90	95.80	20.0	*** METH DEFAULT ***
Q2	145.00	29.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	11256
2		4.000	22997
3		10.000	53828
4		25.000	128384
5		50.000	275706
6		70.000	379720
7		100.000	490960

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

32) Naphthalene ( )

Ret. Time 8.05 min., Extract & Integrate from 7.75 to 8.35 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	128.10			*** METH DEFAULT ***
Q1	129.10	10.90	20.0	*** METH DEFAULT ***
Q2	127.10	13.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	40434
2		4.000	81223
3		10.000	192000
4		25.000	454155
5		50.000	971733
6		70.000	1347939
7		100.000	1724136

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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33) 4-Chloroaniline ( )

Ret. Time 8.11 min., Extract & Integrate from 7.81 to 8.41 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	127.00			*** METH DEFAULT ***
Q1	129.00	32.40	20.0	*** METH DEFAULT ***
Q2	65.00	34.80	20.0	*** METH DEFAULT ***
Q3	92.10	19.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12107
2		4.000	26847
3		10.000	62718

4	25.000	139283
5	50.000	385558
6	70.000	529785
7	100.000	682751

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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34) Hexachlorobutadiene ( )

Ret. Time 8.25 min., Extract & Integrate from 7.95 to 8.55 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 224.90			*** METH DEFAULT ***
Q1 222.90	63.10	20.0	*** METH DEFAULT ***
Q2 226.80	63.70	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	2.000	5873
2	4.000	11884
3	10.000	28054
4	25.000	67074
5	50.000	146931
6	70.000	203459
7	100.000	260630

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

35) 4-Chloro-3-methylphenol ( )

Ret. Time 8.69 min., Extract & Integrate from 8.39 to 8.99 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 107.10			*** METH DEFAULT ***
Q1 142.00	79.10	20.0	*** METH DEFAULT ***
Q2 144.00	25.90	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	2.000	9438
2	4.000	20714
3	10.000	50169
4	25.000	124979
5	50.000	274972
6	70.000	379764
7	100.000	490285

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

36) 2-Methylnaphthalene ( )

Ret. Time 8.92 min., Extract & Integrate from 8.62 to 9.22 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 142.10			*** METH DEFAULT ***
Q1 141.10	86.70	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	2.000	26638
2	4.000	53864
3	10.000	127569
4	25.000	311689
5	50.000	664393
6	70.000	923935
7	100.000	1179496

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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37) Acenaphthene-d10 (ISTD TR)

Ret. Time 10.26 min., Extract & Integrate from 9.96 to 10.56 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	164.20			*** METH DEFAULT ***
Q1	162.10	91.00	20.0	*** METH DEFAULT ***
Q2	160.10	40.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	414550
2		40.000	415428
3		40.000	389154
4		40.000	382921
5		40.000	416321
6		40.000	407271
7		40.000	369208

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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38) Hexachlorocyclopentadiene ( )

Ret. Time 9.19 min., Extract & Integrate from 8.89 to 9.49 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	236.90			*** METH DEFAULT ***
Q1	234.90	63.90	20.0	*** METH DEFAULT ***
Q2	271.80	12.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6159
2		4.000	12748
3		10.000	31013
4		25.000	77141
5		50.000	170302
6		70.000	234243
7		100.000	301383

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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39) 2,4,6-Trichlorophenol ( )

Ret. Time 9.29 min., Extract & Integrate from 8.99 to 9.59 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	95.20	20.0	*** METH DEFAULT ***
Q2	199.90	31.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6205
2		4.000	13289
3		10.000	31458
4		25.000	80200
5		50.000	176148
6		70.000	245271
7		100.000	319376

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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40) 2,4,5-Trichlorophenol ( )

Ret. Time 9.34 min., Extract & Integrate from 9.04 to 9.64 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	94.20	20.0	*** METH DEFAULT ***
Q2	97.00	53.00	20.0	*** METH DEFAULT ***
Q3	132.00	25.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6791
2		4.000	14315
3		10.000	34119
4		25.000	87167
5		50.000	190603
6		70.000	264469
7		100.000	345765

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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41) 2-Fluorobiphenyl ( )

Ret. Time 9.39 min., Extract & Integrate from 9.09 to 9.69 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	172.10			*** METH DEFAULT ***
Q1	171.10	35.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	26079
2		4.000	52629
3		10.000	123762
4		25.000	300414
5		50.000	651981
6		70.000	900414
7		100.000	1163212

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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42) 2-Chloronaphthalene ( )

Ret. Time 9.54 min., Extract & Integrate from 9.24 to 9.84 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	162.00			*** METH DEFAULT ***
Q1	164.00	32.80	20.0	*** METH DEFAULT ***
Q2	127.10	36.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	23257
2		4.000	47611
3		10.000	110053
4		25.000	269745
5		50.000	585287
6		70.000	804489
7		100.000	1026959

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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43) 2-Nitroaniline ( )

Ret. Time 9.69 min., Extract & Integrate from 9.39 to 9.99 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	65.00			*** METH DEFAULT ***
Q1	92.10	64.90	20.0	*** METH DEFAULT ***
Q2	138.10	100.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response

1	2.000	6219
2	4.000	13046
3	10.000	33301
4	25.000	85100
5	50.000	188474
6	70.000	268110
7	100.000	346503

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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44) Dimethylphthalate ( )

Ret. Time 9.93 min., Extract & Integrate from 9.63 to 10.23 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	163.10			*** METH DEFAULT ***
Q1	77.00	21.80	20.0	*** METH DEFAULT ***
Q2	194.10	6.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	24535
2		4.000	50630
3		10.000	120513
4		25.000	300089
5		50.000	649103
6		70.000	896148
7		100.000	1160061

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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45) Acenaphthylene ( )

Ret. Time 10.08 min., Extract & Integrate from 9.78 to 10.38 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	152.10			*** METH DEFAULT ***
Q1	151.10	20.00	20.0	*** METH DEFAULT ***
Q2	153.10	12.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	36383
2		4.000	75296
3		10.000	180446
4		25.000	445453
5		50.000	954843
6		70.000	1330516
7		100.000	1704728

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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46) 2,6-Dinitrotoluene ( )

Ret. Time 10.03 min., Extract & Integrate from 9.73 to 10.23 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	165.00			*** METH DEFAULT ***
Q1	63.00	56.60	20.0	*** METH DEFAULT ***
Q2	89.10	58.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	5290
2		4.000	11196
3		10.000	28190
4		25.000	71363
5		50.000	156478
6		70.000	217105

7	100.000

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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47) 3-Nitroaniline ( )

Ret. Time 10.20 min., Extract & Integrate from 9.90 to 10.50 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 138.10			*** METH DEFAULT ***
Q1 92.10	119.00	20.0	*** METH DEFAULT ***
Q2 108.10	10.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	4871
2		4.000	10353
3		10.000	18626
4		25.000	37238
5		50.000	135724
6		70.000	203562
7		100.000	266125

Qualifier Peak Analysis ON
Curve Fit: Quadratic

---

48) Acenaphthene ( )

Ret. Time 10.31 min., Extract & Integrate from 10.01 to 10.61 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 154.10			*** METH DEFAULT ***
Q1 153.10	107.90	20.0	*** METH DEFAULT ***
Q2 152.10	49.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	24496
2		4.000	50720
3		10.000	121294
4		25.000	301718
5		50.000	657877
6		70.000	807749
7		100.000	1062954

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

49) 2,4-Dinitrophenol ( )

Ret. Time 10.33 min., Extract & Integrate from 10.23 to 10.63 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 184.00			*** METH DEFAULT ***
Q1 63.00	64.80	20.0	*** METH DEFAULT ***
Q2 154.00	60.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		20.000	26775
4		50.000	80962
5		100.000	183527
6		140.000	268717
7		200.000	353330

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

50) 4-Nitrophenol ( )

Ret. Time 10.37 min., Extract & Integrate from 10.27 to 10.67 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 109.10			*** METH DEFAULT ***
Q1 65.10	111.60	20.0	*** METH DEFAULT ***
Q2 139.10	101.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		4.000	4717
2		8.000	10318
3		20.000	26471
4		50.000	74414
5		100.000	153657
6		140.000	224747
7		200.000	289771

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

51) Dibenzofuran ( )

Ret. Time 10.50 min., Extract & Integrate from 10.20 to 10.80 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 168.10			*** METH DEFAULT ***
Q1 139.10	39.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	32495
2		4.000	66015
3		10.000	152921
4		25.000	379675
5		50.000	821333
6		70.000	1131688
7		100.000	1452933

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

52) 2,4-Dinitrotoluene ( )

Ret. Time 10.52 min., Extract & Integrate from 10.32 to 10.82 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 165.10			*** METH DEFAULT ***
Q1 63.00	47.60	20.0	*** METH DEFAULT ***
Q2 89.00	77.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6748
2		4.000	14488
3		10.000	34880
4		25.000	92325
5		50.000	200327
6		70.000	278069
7		100.000	361853

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

53) Fluorene ( )

Ret. Time 10.94 min., Extract & Integrate from 10.64 to 11.24 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 166.10			*** METH DEFAULT ***
Q1 165.10	93.60	20.0	*** METH DEFAULT ***

Q2	167.10	13.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	25960
2		4.000	52619
3		10.000	124614
4		25.000	309738
5		50.000	670815
6		70.000	927619
7		100.000	1212276

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

54) Diethylphthalate ( )

Ret. Time 10.81 min., Extract & Integrate from 10.51 to 11.11 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	177.10	23.80	20.0	*** METH DEFAULT ***
Q2	150.10	12.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	24815
2		4.000	50964
3		10.000	120992
4		25.000	300197
5		50.000	660334
6		70.000	898183
7		100.000	1171118

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

55) 4-Chlorophenyl phenyl ether ( )

Ret. Time 10.91 min., Extract & Integrate from 10.61 to 11.21 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	204.00			*** METH DEFAULT ***
Q1	206.00	32.40	20.0	*** METH DEFAULT ***
Q2	141.10	57.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	11124
2		4.000	23358
3		10.000	53806
4		25.000	133676
5		50.000	288899
6		70.000	399174
7		100.000	516358

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

56) 4-Nitroaniline ( )

Ret. Time 10.99 min., Extract & Integrate from 10.69 to 11.29 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	138.10			*** METH DEFAULT ***
Q1	65.00	108.00	20.0	*** METH DEFAULT ***
Q2	108.10	93.80	20.0	*** METH DEFAULT ***
Q3	92.10	51.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	4501
2		4.000	7806

3	10.000	13299
4	25.000	40283
5	50.000	119870
6	70.000	187613
7	100.000	244574

Qualifier Peak Analysis ON
Curve Fit: Quadratic

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57) Phenanthrene-d10 (ISTD TR)

Ret. Time 12.15 min., Extract & Integrate from 11.85 to 12.45 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 188.20			*** METH DEFAULT ***
Q1 94.00	7.70	20.0	*** METH DEFAULT ***
Q2 80.00	8.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	610431
2		40.000	621089
3		40.000	575672
4		40.000	582081
5		40.000	621575
6		40.000	621549
7		40.000	561916

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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58) 2-Methyl-4,6-dinitrophenol ( )

Ret. Time 11.04 min., Extract & Integrate from 10.74 to 11.34 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 198.00			*** METH DEFAULT ***
Q1 51.00	42.60	20.0	*** METH DEFAULT ***
Q2 105.00	38.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		8.000	13306
3		20.000	35792
4		50.000	100078
5		100.000	221061
6		140.000	314629
7		200.000	406377

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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59) N-Nitrosodiphenylamine ( )

Ret. Time 11.06 min., Extract & Integrate from 10.76 to 11.36 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 169.10			*** METH DEFAULT ***
Q1 168.10	63.50	20.0	*** METH DEFAULT ***
Q2 167.10	33.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	17698
2		4.000	37157
3		10.000	84049
4		25.000	182527
5		50.000	437924
6		70.000	624164
7		100.000	837997

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

60) Azobenzene ( )

Ret. Time 11.11 min., Extract & Integrate from 10.81 to 11.41 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	77.00			*** METH DEFAULT ***
Q1	51.00	30.90	20.0	*** METH DEFAULT ***
Q2	182.10	28.90	20.0	*** METH DEFAULT ***
Q3	105.10	14.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	24527
2		4.000	50603
3		10.000	120536
4		25.000	299745
5		50.000	641201
6		70.000	873105
7		100.000	1146107

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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61) 2,4,6-Tribromophenol ( )

Ret. Time 11.26 min., Extract & Integrate from 10.96 to 11.56 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	329.80			*** METH DEFAULT ***
Q1	331.80	96.10	20.0	*** METH DEFAULT ***
Q2	141.00	48.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	2513
2		4.000	5526
3		10.000	13602
4		25.000	35942
5		50.000	78431
6		70.000	110498
7		100.000	146719

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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62) 4-Bromophenyl phenyl ether ( )

Ret. Time 11.52 min., Extract & Integrate from 11.22 to 11.82 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	248.00			*** METH DEFAULT ***
Q1	250.00	98.70	20.0	*** METH DEFAULT ***
Q2	141.10	80.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6215
2		4.000	13073
3		10.000	29938
4		25.000	75856
5		50.000	165866
6		70.000	230291
7		100.000	301973

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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63) Hexachlorobenzene ( )

Ret. Time 11.74 min., Extract & Integrate from 11.44 to 12.04 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 283.80			*** METH DEFAULT ***
Q1 141.90	42.80	20.0	*** METH DEFAULT ***
Q2 248.90	34.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	6736
2		4.000	13807
3		10.000	32192
4		25.000	78885
5		50.000	173139
6		70.000	237113
7		100.000	314663

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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64) Pentachlorophenol ( )

Ret. Time 11.96 min., Extract & Integrate from 11.66 to 12.26 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 265.90			*** METH DEFAULT ***
Q1 263.90	64.10	20.0	*** METH DEFAULT ***
Q2 267.90	63.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		8.000	15073
3		20.000	39389
4		50.000	108625
5		100.000	240473
6		140.000	340528
7		200.000	451713

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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65) Phenanthrene ( )

Ret. Time 12.19 min., Extract & Integrate from 11.89 to 12.49 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 178.10			*** METH DEFAULT ***
Q1 179.10	15.60	20.0	*** METH DEFAULT ***
Q2 176.10	18.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	34533
2		4.000	69663
3		10.000	161896
4		25.000	409982
5		50.000	863568
6		70.000	1202977
7		100.000	1566533

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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66) Anthracene ( )

Ret. Time 12.25 min., Extract & Integrate from 11.95 to 12.55 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 178.10			*** METH DEFAULT ***
Q1 176.10	18.30	20.0	*** METH DEFAULT ***

Q2	179.10	15.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	32086
2		4.000	66940
3		10.000	158813
4		25.000	405658
5		50.000	860203
6		70.000	1195619
7		100.000	1565563

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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67) Carbazole ( )

Ret. Time 12.46 min., Extract & Integrate from 12.16 to 12.76 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	167.10			*** METH DEFAULT ***
Q1	166.10	21.50	20.0	*** METH DEFAULT ***
Q2	139.10	13.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27290
2		4.000	53658
3		10.000	96117
4		25.000	143545
5		50.000	412577
6		70.000	775435
7		100.000	1196277

Qualifier Peak Analysis ON
Curve Fit: Quadratic

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68) Di-n-butylphthalate ( )

Ret. Time 12.98 min., Extract & Integrate from 12.68 to 13.28 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	150.10	9.10	20.0	*** METH DEFAULT ***
Q2	104.00	5.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	32778
2		4.000	72554
3		10.000	180956
4		25.000	462104
5		50.000	998221
6		70.000	1363446
7		100.000	1786508

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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69) Fluoranthene ( )

Ret. Time 14.04 min., Extract & Integrate from 13.74 to 14.34 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	202.10			*** METH DEFAULT ***
Q1	101.00	8.40	20.0	*** METH DEFAULT ***
Q2	203.10	17.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27173
2		4.000	57212
3		10.000	137046

4	25.000	365275
5	50.000	746526
6	70.000	1052820
7	100.000	1378775

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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70) Chrysene-d12 (ISTD TR)

Ret. Time 16.79 min., Extract & Integrate from 16.49 to 17.09 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 240.20			*** METH DEFAULT ***
Q1 120.10	8.80	20.0	*** METH DEFAULT ***
Q2 236.20	25.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	344813
2		40.000	343966
3		40.000	319780
4		40.000	330836
5		40.000	304961
6		40.000	335336
7		40.000	310337

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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71) Benzidine ( )

Ret. Time 14.22 min., Extract & Integrate from 13.92 to 14.52 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 184.10			*** METH DEFAULT ***
Q1 92.10	6.20	20.0	*** METH DEFAULT ***
Q2 185.10	14.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		4.000	13622
2		8.000	39459
3		20.000	94014
4		50.000	224306
5		100.000	370877
6		140.000	547251
7		200.000	760629

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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72) Pyrene ( )

Ret. Time 14.44 min., Extract & Integrate from 14.14 to 14.74 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 202.10			*** METH DEFAULT ***
Q1 200.10	20.20	20.0	*** METH DEFAULT ***
Q2 203.10	18.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	27600
2		4.000	58878
3		10.000	136734
4		25.000	359169
5		50.000	713009
6		70.000	1031949
7		100.000	1327467

Qualifier Peak Analysis ON

Curve Fit: Avg. RF

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73) Terphenyl-d14 ( )

Ret. Time 14.69 min., Extract & Integrate from 14.39 to 14.99 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 244.20			*** METH DEFAULT ***
Q1 122.10	8.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	17730
2		4.000	37099
3		10.000	88893
4		25.000	231117
5		50.000	464646
6		70.000	670040
7		100.000	875501

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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74) Butylbenzylphthalate ( )

Ret. Time 15.65 min., Extract & Integrate from 15.35 to 15.95 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 149.00			*** METH DEFAULT ***
Q1 91.10	74.20	20.0	*** METH DEFAULT ***
Q2 206.10	23.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	12726
2		4.000	24348
3		10.000	60753
4		25.000	163761
5		50.000	330432
6		70.000	467391
7		100.000	608819

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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75) 3,3'-Dichlorobenzidine ( )

Ret. Time 16.71 min., Extract & Integrate from 16.41 to 17.01 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 252.10			*** METH DEFAULT ***
Q1 254.10	65.80	20.0	*** METH DEFAULT ***
Q2 126.10	10.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		4.000	10668
2		8.000	18752
3		20.000	43247
4		50.000	92395
5		100.000	210687
6		140.000	409501
7		200.000	556137

Qualifier Peak Analysis ON
Curve Fit: Quadratic

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76) Benz(a)anthracene ( )

Ret. Time 16.76 min., Extract & Integrate from 16.46 to 17.06 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	229.10	19.80	20.0	*** METH DEFAULT ***
Q2	226.10	25.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	19795
2		4.000	38548
3		10.000	91312
4		25.000	242686
5		50.000	449645
6		70.000	694686
7		100.000	919735

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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77) Chrysene ( )

Ret. Time 16.85 min., Extract & Integrate from 16.55 to 17.15 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	226.10	28.50	20.0	*** METH DEFAULT ***
Q2	229.10	19.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	19239
2		4.000	37385
3		10.000	87142
4		25.000	226179
5		50.000	410701
6		70.000	635508
7		100.000	843554

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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78) Bis(2-ethylhexyl)phthalate ( )

Ret. Time 16.87 min., Extract & Integrate from 16.57 to 17.17 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	167.10	31.30	20.0	*** METH DEFAULT ***
Q2	279.20	7.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	14646
2		4.000	31411
3		10.000	79999
4		25.000	214448
5		50.000	439941
6		70.000	617338
7		100.000	823207

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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79) Mirex ( )

Ret. Time 17.66 min., Extract & Integrate from 17.36 to 17.96 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	271.80			*** METH DEFAULT ***
Q1	236.90	59.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	1489

2	2.000	3443
3	5.000	8800
4	12.500	22762
5	25.000	47551
6	35.000	67540
7	50.000	88570

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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80) Perylene-d12 (ISTD)

Ret. Time 19.91 min., Extract & Integrate from 19.61 to 20.21 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	264.20			*** METH DEFAULT ***
Q1	260.20	22.10	20.0	*** METH DEFAULT ***
Q2	265.20	20.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	193306
2		40.000	189472
3		40.000	177692
4		40.000	169785
5		40.000	143248
6		40.000	176484
7		40.000	178531

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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81) Di-n-octylphthalate ( )

Ret. Time 18.14 min., Extract & Integrate from 17.84 to 18.44 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	150.00	9.80	20.0	*** METH DEFAULT ***
Q2	167.10	1.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	18093
2		4.000	37199
3		10.000	104181
4		25.000	300605
5		50.000	610160
6		70.000	899004
7		100.000	1215079

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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82) Benzo(b)fluoranthene ( )

Ret. Time 19.01 min., Extract & Integrate from 18.71 to 19.31 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	22.10	20.0	*** METH DEFAULT ***
Q2	125.10	7.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15261
2		4.000	25417
3		10.000	58718
4		25.000	152671
5		50.000	272375
6		70.000	458870
7		100.000	654267

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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83) Benzo(k)fluoranthene ( )

Ret. Time 19.07 min., Extract & Integrate from 18.77 to 19.37 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	21.50	20.0	*** METH DEFAULT ***
Q2	125.10	7.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	15216
2		4.000	25575
3		10.000	60292
4		25.000	147573
5		50.000	253868
6		70.000	427628
7		100.000	610855

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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84) Benzo(a)pyrene ( )

Ret. Time 19.78 min., Extract & Integrate from 19.48 to 20.08 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	22.70	20.0	*** METH DEFAULT ***
Q2	125.10	9.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	11661
2		4.000	19482
3		10.000	47458
4		25.000	120920
5		50.000	209373
6		70.000	367054
7		100.000	535265

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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85) Indeno(1,2,3-c,d)pyrene ( )

Ret. Time 23.07 min., Extract & Integrate from 22.77 to 23.37 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.10	17.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	8946
2		4.000	15521
3		10.000	38413
4		25.000	92191
5		50.000	158292
6		70.000	311567
7		100.000	488879

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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86) Dibenz(a,h)anthracene ( )

Ret. Time 23.12 min., Extract & Integrate from 22.82 to 23.42 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	278.10			*** METH DEFAULT ***
Q1	139.10	15.10	20.0	*** METH DEFAULT ***
Q2	279.10	23.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	7378
2		4.000	13761
3		10.000	33516
4		25.000	79976
5		50.000	136988
6		70.000	267090
7		100.000	419877

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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87) Benzo(g,h,i)perylene ( )

Ret. Time 24.00 min., Extract & Integrate from 23.70 to 24.30 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.10	17.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		2.000	7032
2		4.000	13267
3		10.000	32402
4		25.000	76058
5		50.000	129881
6		70.000	255452
7		100.000	404725

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Wed Dec 27 09:48:39 2006

Response Factor Report MSE

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

Calibration Files
1 =E061879.D 2 =E061880.D 3 =E061881.D
4 =E061882.D 5 =E061883.D 6 =E061884.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------	ISTD	----------					
2)	N	1,4-Dioxane	0.587	0.604	0.593	0.587	0.588	0.570	0.586	2.09
3)	T	N-Nitrosodimeth	0.779	0.777	0.753	0.770	0.756	0.746	0.762	1.78
4)	T	Pyridine	1.542	1.518	1.508	1.536	1.528	1.507	1.520	1.00
5)	N	PGMEA	2.821	2.796	2.814	2.782	2.700	2.673	2.753	2.33
6)	S	2-Fluorophenol	1.228	1.261	1.273	1.293	1.290	1.287	1.274	1.81
7)	S	Phenol-d5	1.622	1.624	1.638	1.675	1.661	1.662	1.651	1.36
8)	CMT	Phenol	1.704	1.718	1.752	1.770	1.741	1.739	1.739	1.26#
9)	T	Aniline	1.772	1.909	2.072	2.067	2.086	2.091	2.014	6.21
10)	T	Bis(2-chloroeth	1.459	1.436	1.430	1.454	1.419	1.411	1.431	1.44
11)	MT	2-Chlorophenol	1.452	1.442	1.460	1.490	1.495	1.486	1.474	1.51
12)	T	1,3-Dichloroben	1.660	1.616	1.600	1.617	1.608	1.594	1.613	1.39
13)	CMT	1,4-Dichloroben	1.695	1.676	1.652	1.649	1.627	1.615	1.647	1.82#
14)	T	Benzyl alcohol	0.899	0.896	0.931	0.964	0.962	0.959	0.940	3.36
15)	T	1,2-Dichloroben	1.547	1.563	1.529	1.529	1.535	1.531	1.537	0.88
16)	N	N-Methyl pyrrol	0.858	0.907	0.913	0.964	0.960	0.969	0.935	4.63
17)	T	2-Methylphenol	1.278	1.254	1.286	1.318	1.301	1.300	1.293	1.73
18)	T	Bis(2-chloroiso	2.815	2.776	2.796	2.786	2.681	2.644	2.729	3.09
19)	T	4-Methylphenol	1.563	1.578	1.619	1.676	1.661	1.681	1.638	3.12
20)	PMT	N-Nitrosodi-n-p	0.920	0.941	0.951	0.974	0.990	0.991	0.967	3.11
21)	T	Hexachloroethan	0.589	0.598	0.612	0.611	0.607	0.610	0.606	1.51
22)	I	Naphthalene-d8	----------	ISTD	----------					
23)	S	Nitrobenzene-d5	0.320	0.329	0.340	0.343	0.346	0.346	0.338	2.83
24)	T	Nitrobenzene	0.350	0.349	0.357	0.360	0.357	0.357	0.355	1.13
25)	T	Isophorone	0.593	0.621	0.639	0.650	0.657	0.653	0.637	3.56
26)	CT	2-Nitrophenol	0.172	0.181	0.204	0.250	0.196	0.200	0.200	12.40#
27)	T	2,4-Dimethylphe	0.315	0.324	0.319	0.329	0.329	0.327	0.324	1.66
28)	T	Benzoic acid		0.165	0.194	0.224	0.229	0.234	0.213	13.18
29)	T	Bis(2-chloroeth	0.396	0.405	0.403	0.404	0.402	0.398	0.400	1.21
30)	CT	2,4-Dichlorophe	0.261	0.269	0.279	0.278	0.281	0.276	0.274	2.55#
31)	MT	1,2,4-Trichloro	0.293	0.300	0.300	0.296	0.295	0.293	0.296	1.10
32)	T	Naphthalene	1.053	1.060	1.070	1.046	1.039	1.041	1.048	1.38
33)	T	4-Chloroaniline	0.315	0.350	0.349	0.321	0.412	0.409	0.366	11.56
34)	CT	Hexachlorobutad	0.153	0.155	0.156	0.154	0.157	0.157	0.155	0.96#
35)	CMT	4-Chloro-3-meth	0.246	0.270	0.280	0.288	0.294	0.293	0.280	6.24#
36)	T	2-Methylnaphtha	0.694	0.703	0.711	0.718	0.710	0.713	0.707	1.15
37)	I	Acenaphthene-d10	----------	ISTD	----------					
38)	PT	Hexachlorocyclo	0.297	0.307	0.319	0.322	0.327	0.329	0.318	3.74
39)	CT	2,4,6-Trichloro	0.299	0.320	0.323	0.335	0.338	0.344	0.329	5.01#
40)	T	2,4,5-Trichloro	0.328	0.345	0.351	0.364	0.366	0.371	0.357	4.72
41)	S	2-Fluorobipheny	1.258	1.267	1.272	1.255	1.253	1.263	1.261	0.53
42)	T	2-Chloronaphtha	1.122	1.146	1.131	1.127	1.125	1.129	1.127	0.90
43)	T	2-Nitroaniline	0.300	0.314	0.342	0.356	0.362	0.376	0.347	8.56
44)	T	Dimethylphthala	1.184	1.219	1.239	1.254	1.247	1.257	1.237	2.18
45)	T	Acenaphthylene	1.755	1.812	1.855	1.861	1.835	1.867	1.833	2.12
46)	T	2,6-Dinitrotolu	0.255	0.270	0.290	0.298	0.301	0.305	0.289	6.74
47)	T	3-Nitroaniline	0.235	0.249	0.191	0.156	0.261	0.286	0.238	20.59
48)	CMT	Acenaphthene	1.182	1.221	1.247	1.261	1.264	1.133	1.208	4.41#
49)	PT	2,4-Dinitrophen			0.138	0.169	0.176	0.189	0.173	12.48
50)	PMT	4-Nitrophenol	0.114	0.124	0.136	0.155	0.148	0.158	0.142	12.33
51)	T	Dibenzofuran	1.568	1.589	1.572	1.586	1.578	1.588	1.579	0.54
52)	MT	2,4-Dinitrotolu	0.326	0.349	0.359	0.386	0.385	0.390	0.369	6.92
53)	T	Fluorene	1.252	1.267	1.281	1.294	1.289	1.302	1.285	1.62

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

Calibration Files
1 =E061879.D 2 =E061880.D 3 =E061881.D
4 =E061882.D 5 =E061883.D 6 =E061884.D

		Compound	1	2	3	4	5	6	Avg	%RSD
54)	T	Diethylphthalat	1.197	1.227	1.244	1.254	1.269	1.260	1.246	2.09
55)	T	4-Chlorophenyl	0.537	0.562	0.553	0.559	0.555	0.560	0.555	1.56
56)	T	4-Nitroaniline	0.217	0.188	0.137	0.168	0.230	0.263	0.210	22.96
57)	I	Phenanthrene-d10	ISTD							
58)	T	2-Methyl-4,6-di		0.107	0.124	0.138	0.142	0.145	0.133	11.22
59)	CT	N-Nitrosodiphen	0.580	0.598	0.584	0.502	0.564	0.574	0.571	5.76#
60)	N	Azobenzene	0.804	0.815	0.838	0.824	0.825	0.803	0.818	1.52
61)	S	2,4,6-Tribromop	0.082	0.089	0.095	0.099	0.101	0.102	0.096	8.22
62)	T	4-Bromophenyl p	0.204	0.210	0.208	0.209	0.213	0.212	0.210	1.81
63)	T	Hexachlorobenze	0.221	0.222	0.224	0.217	0.223	0.218	0.221	1.27
64)	CMT	Pentachlorophen		0.121	0.137	0.149	0.155	0.157	0.147	10.15#
65)	T	Phenanthrene	1.131	1.122	1.125	1.127	1.111	1.106	1.120	0.81
66)	T	Anthracene	1.051	1.078	1.103	1.115	1.107	1.099	1.095	2.12
67)	N	Carbazole	0.894	0.864	0.668	0.395	0.531	0.713	0.702	26.67
68)	T	Di-n-butylphtha	1.074	1.168	1.257	1.270	1.285	1.254	1.226	6.29
69)	CT	Fluoranthene	0.890	0.921	0.952	1.004	0.961	0.968	0.954	3.98#
70)	I	Chrysene-d12	ISTD							
71)	N	Benzidine	0.395	0.574	0.588	0.542	0.486	0.466	0.506	13.29
72)	MT	Pyrene	1.601	1.712	1.710	1.737	1.870	1.758	1.729	4.62
73)	S	Terphenyl-d14	1.028	1.079	1.112	1.118	1.219	1.142	1.118	5.23
74)	T	Butylbenzylphth	0.738	0.708	0.760	0.792	0.867	0.796	0.778	6.49
75)	T	3,3'-Dichlorobe	0.309	0.273	0.270	0.223	0.276	0.349	0.294	16.24
76)	T	Benz(a)anthrace	1.148	1.121	1.142	1.174	1.180	1.184	1.162	2.15
77)	T	Chrysene	1.116	1.087	1.090	1.094	1.077	1.083	1.091	1.13
78)	T	Bis(2-ethylhexy	0.850	0.913	1.001	1.037	1.154	1.052	1.010	9.99
79)	N	Mirex	0.173	0.200	0.220	0.220	0.249	0.230	0.217	11.30
80)	I	Perylene-d12	ISTD							
81)	CT	Di-n-octylphtha	1.872	1.963	2.345	2.833	3.408	2.911	2.579	21.33#
82)	T	Benzo(b)fluoran	1.579	1.341	1.322	1.439	1.521	1.486	1.451	6.39
83)	T	Benzo(k)fluoran	1.574	1.350	1.357	1.391	1.418	1.385	1.406	5.52
84)	CT	Benzo(a)pyrene	1.206	1.028	1.068	1.140	1.169	1.188	1.143	6.05#
85)	T	Indeno(1,2,3-c,	0.926	0.819	0.865	0.869	0.884	1.009	0.924	10.43
86)	T	Dibenz(a,h)anth	0.763	0.726	0.754	0.754	0.765	0.865	0.795	9.75
87)	T	Benzo(g,h,i)per	0.728	0.700	0.729	0.717	0.725	0.827	0.762	9.98

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:06:25 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	194464	40.00	mg/L	0.00
22) Naphthalene-d8	8.01	136	768067	40.00	mg/L	0.00
37) Acenaphthene-d10	10.26	164	414550	40.00	mg/L	0.00
57) Phenanthrene-d10	12.15	188	610431	40.00	mg/L	0.00
70) Chrysene-d12	16.80	240	344813	40.00	mg/L	0.00
80) Perylene-d12	19.92	264	193306	40.00	mg/L	0.01
System Monitoring Compounds						
6) 2-Fluorophenol	4.72	112	11936	1.90	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.80%		
7) Phenol-d5	5.86	99	15767	1.95	mg/L	-0.02
Spiked Amount 50.000			Recovery =	3.90%		
23) Nitrobenzene-d5	7.10	82	12305	1.85	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.70%		
41) 2-Fluorobiphenyl	9.38	172	26079	2.01	mg/L	0.00
Spiked Amount 50.000			Recovery =	4.02%		
61) 2,4,6-Tribromophenol	11.26	330	2513	1.63	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.26%		
73) Terphenyl-d14	14.69	244	17730	1.69	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.38%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.03	88	5711	2.00	mg/L #	60
3) N-Nitrosodimethylamine	3.37	42	7576	2.06	mg/L	86
4) Pyridine	3.41	79	14992	2.02	mg/L #	49
5) PGMEA	4.64	43	27425	2.09	mg/L #	87
8) Phenol	5.88	94	16573	1.96	mg/L	93
9) Aniline	5.96	93	17230	1.70	mg/L	98
10) Bis(2-chloroethyl)ether	6.02	93	14191	2.06	mg/L	92
11) 2-Chlorophenol	6.12	128	14116	1.94	mg/L	97
12) 1,3-Dichlorobenzene	6.31	146	16136	2.06	mg/L	99
13) 1,4-Dichlorobenzene	6.37	146	16479m	2.08	mg/L	
14) Benzyl alcohol	6.52	108	8738	1.87	mg/L #	73
15) 1,2-Dichlorobenzene	6.62	146	15041	2.02	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.59	99	8347	1.79	mg/L	97
17) 2-Methylphenol	6.66	108	12428	1.97	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.73	45	27369	2.10	mg/L #	78
19) 4-Methylphenol	6.84	107	15197	1.88	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.90	70	8945	1.86	mg/L #	75
21) Hexachloroethane	7.03	117	5728	1.94	mg/L #	78
24) Nitrobenzene	7.12	77	13447	1.96	mg/L #	79
25) Isophorone	7.41	82	22775	1.81	mg/L	92
26) 2-Nitrophenol	7.54	139	6609	1.75	mg/L #	83
27) 2,4-Dimethylphenol	7.54	122	12088	1.91	mg/L #	82
28) Benzoic acid	7.62	122	30756m	1.40	mg/L	
29) Bis(2-chloroethoxy)methane	7.67	93	15226	1.97	mg/L	89
30) 2,4-Dichlorophenol	7.82	162	10016	1.86	mg/L	98
31) 1,2,4-Trichlorobenzene	7.95	180	11256	1.99	mg/L	99
32) Naphthalene	8.04	128	40434	2.03	mg/L	98
33) 4-Chloroaniline	8.10	127	12107	1.53	mg/L	94
34) Hexachlorobutadiene	8.25	225	5873	1.95	mg/L	97
35) 4-Chloro-3-methylphenol	8.69	107	9438	1.67	mg/L	88
36) 2-Methylnaphthalene	8.91	142	26638	1.95	mg/L	99
38) Hexachlorocyclopentadiene	9.19	237	6159	1.82	mg/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:06:25 2006 Quant Results File: BA061226.RES

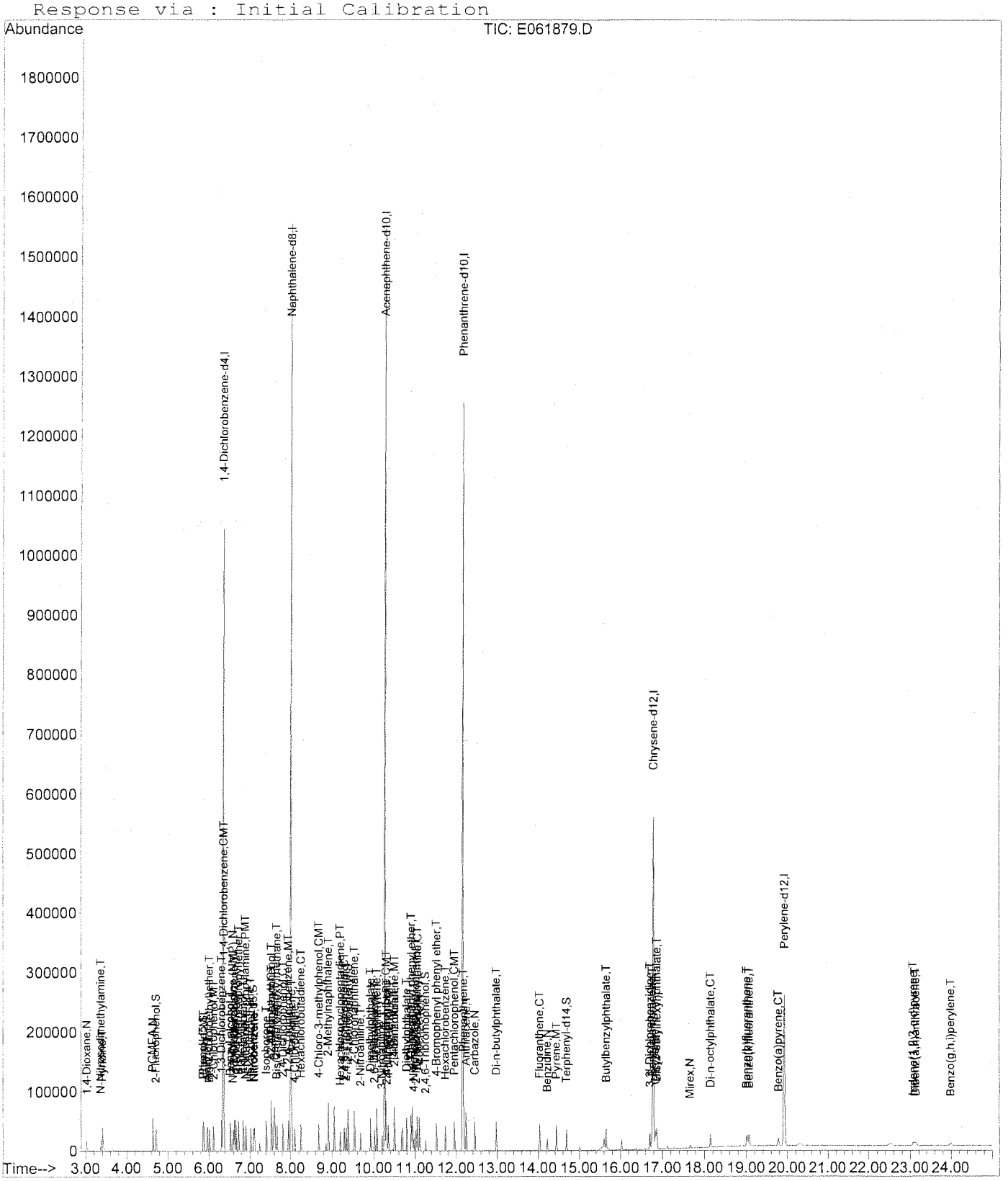
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	6205	1.77	mg/L		99
40)	2,4,5-Trichlorophenol	9.33	196	6791	1.79	mg/L		97
42)	2-Chloronaphthalene	9.53	162	23257	2.00	mg/L		98
43)	2-Nitroaniline	9.68	65	6219	1.66	mg/L		96
44)	Dimethylphthalate	9.92	163	24535	1.90	mg/L		96
45)	Acenaphthylene	10.07	152	36383	1.91	mg/L		99
46)	2,6-Dinitrotoluene	10.02	165	5290	1.70	mg/L		94
47)	3-Nitroaniline	10.19	138	4871	1.80	mg/L		89
48)	Acenaphthene	10.30	154	24496	1.87	mg/L		92
49)	2,4-Dinitrophenol	10.32	184	4155	1.14	mg/L	#	1
50)	4-Nitrophenol	10.35	109	4717	1.54	mg/L	#	36
51)	Dibenzofuran	10.50	168	32495	1.99	mg/L		95
52)	2,4-Dinitrotoluene	10.51	165	6748	1.69	mg/L	#	83
53)	Fluorene	10.93	166	25960	1.94	mg/L		99
54)	Diethylphthalate	10.80	149	24815	1.89	mg/L		96
55)	4-Chlorophenyl phenyl ethe	10.90	204	11124	1.93	mg/L		94
56)	4-Nitroaniline	10.97	138	4501	1.89	mg/L	#	86
58)	2-Methyl-4,6-dinitrophenol	11.02	198	5882	1.35	mg/L	#	82
59)	N-Nitrosodiphenylamine	11.05	169	17698	2.06	mg/L		99
60)	Azobenzene	11.10	77	24527	1.95	mg/L	#	94
62)	4-Bromophenyl phenyl ether	11.52	248	6215	1.91	mg/L		99
63)	Hexachlorobenzene	11.74	284	6736	1.98	mg/L		95
64)	Pentachlorophenol	11.96	266	6805	1.44	mg/L		97
65)	Phenanthrene	12.19	178	34533	2.04	mg/L		99
66)	Anthracene	12.24	178	32086	1.90	mg/L		99
67)	Carbazole	12.45	167	27290	3.37	mg/L		97
68)	Di-n-butylphthalate	12.98	149	32778	1.67	mg/L		99
69)	Fluoranthene	14.03	202	27173	1.85	mg/L	#	93
71)	Benzidine	14.22	184	13622	1.62	mg/L	#	95
72)	Pyrene	14.44	202	27600	1.71	mg/L		99
74)	Butylbenzylphthalate	15.65	149	12726	1.70	mg/L	#	92
75)	3,3'-Dichlorobenzidine	16.71	252	10668	2.24	mg/L	#	97
76)	Benz(a)anthracene	16.76	228	19795	1.95	mg/L		98
77)	Chrysene	16.84	228	19239	2.07	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	16.87	149	14646	1.47	mg/L		99
79)	Mirex	17.67	272	1489	1.38	mg/L		97
81)	Di-n-octylphthalate	18.15	149	18093	1.10	mg/L		100
82)	Benzo(b)fluoranthene	19.01	252	15261	2.08	mg/L	#	94
83)	Benzo(k)fluoranthene	19.07	252	15216	2.22	mg/L	#	94
84)	Benzo(a)pyrene	19.77	252	11661	2.06	mg/L	#	90
85)	Indeno(1,2,3-c,d)pyrene	23.06	276	8946	2.09	mg/L	#	92
86)	Dibenz(a,h)anthracene	23.12	278	7378	2.00	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.99	276	7032	2.01	mg/L	#	64

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:07 2006 Quant Results File: BA061226.RES

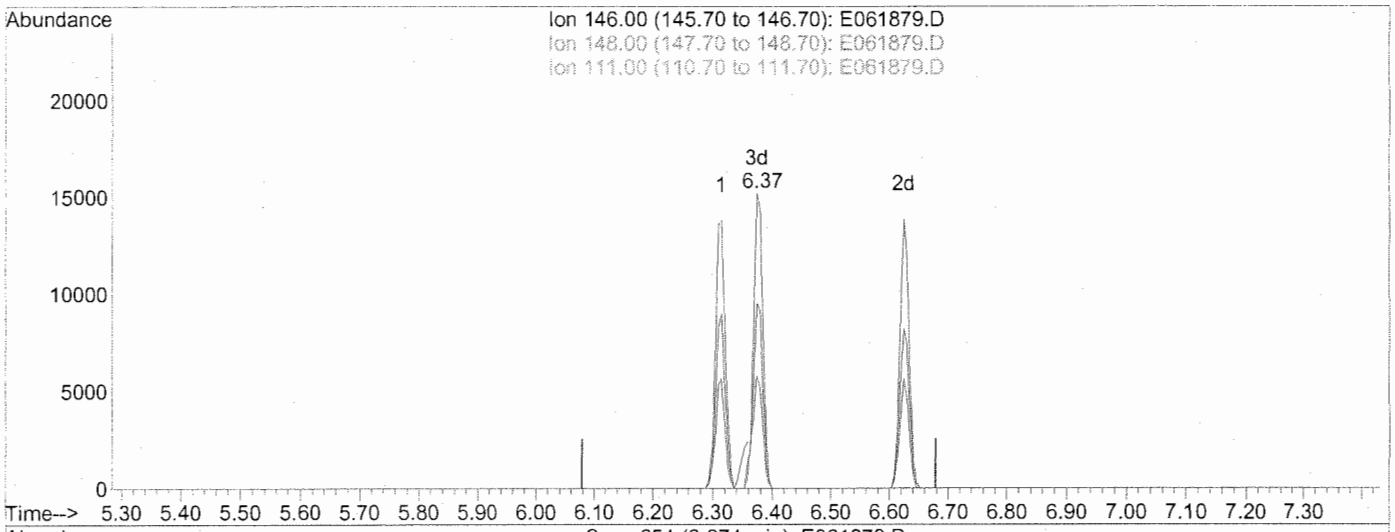
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration

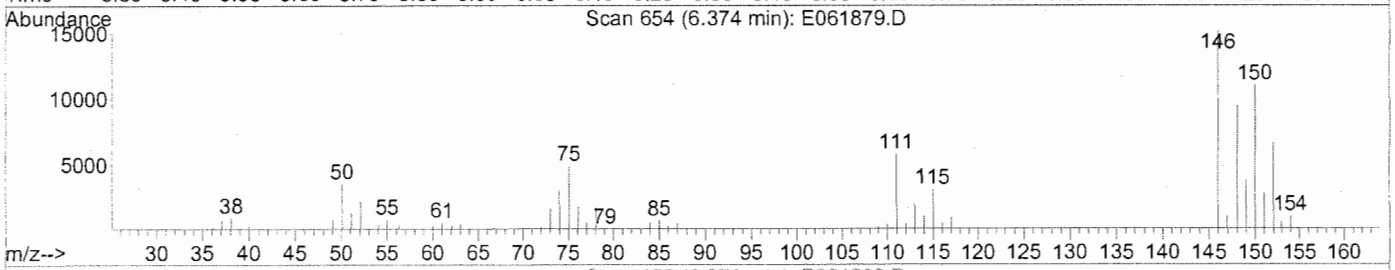


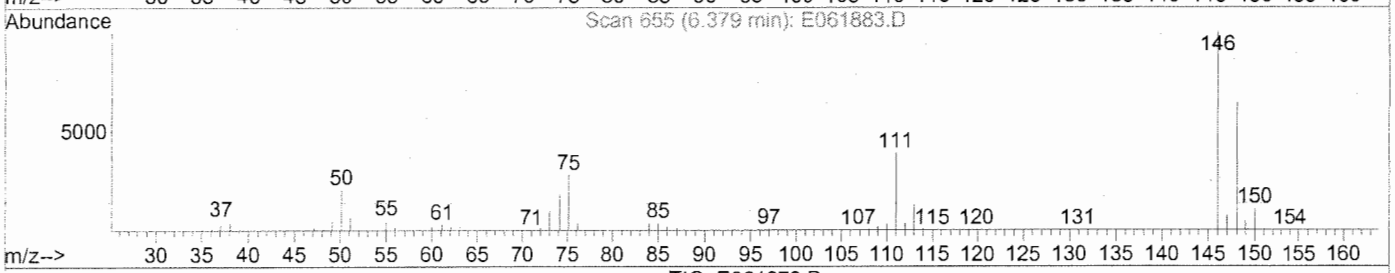
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Single Level Calibration







TIC: E061879.D

(13) 1,4-Dichlorobenzene (CMT)

6.37min 2.08mg/L m

response 16479

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	61.24
111.00	38.30	38.68
0.00	0.00	0.00

Wrong Peak

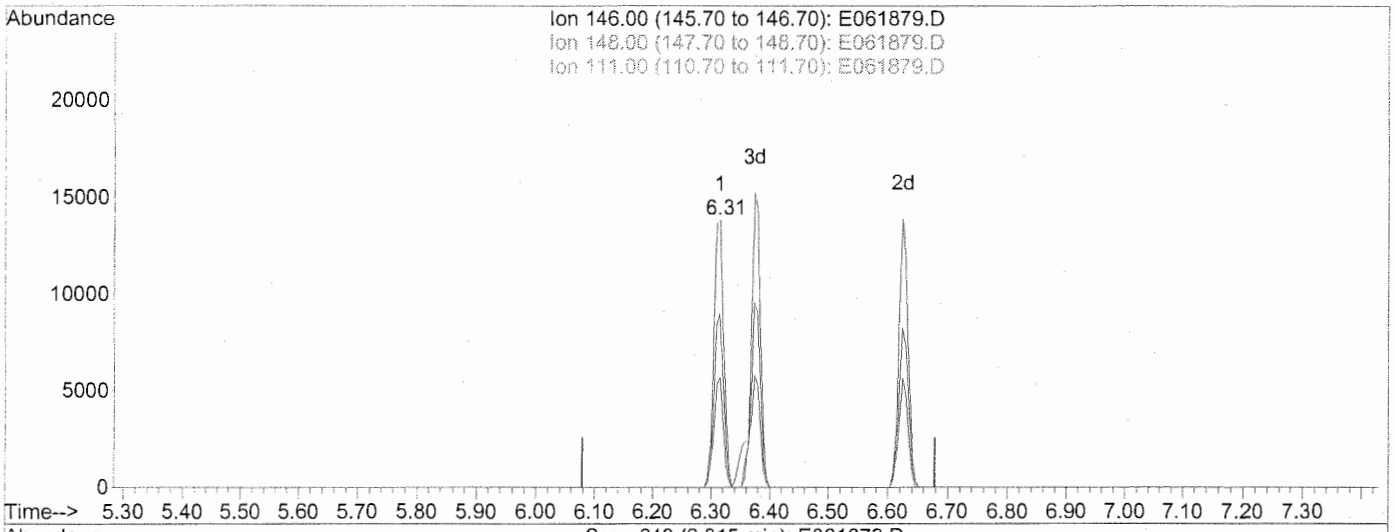
in 12/27/06

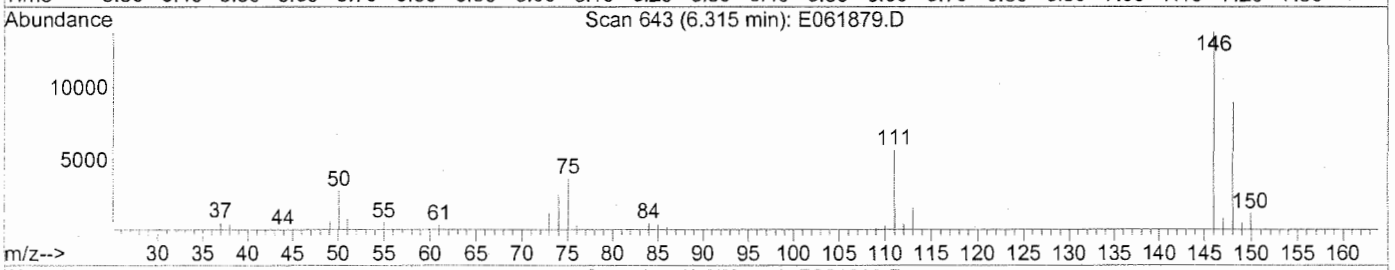
11/2/07

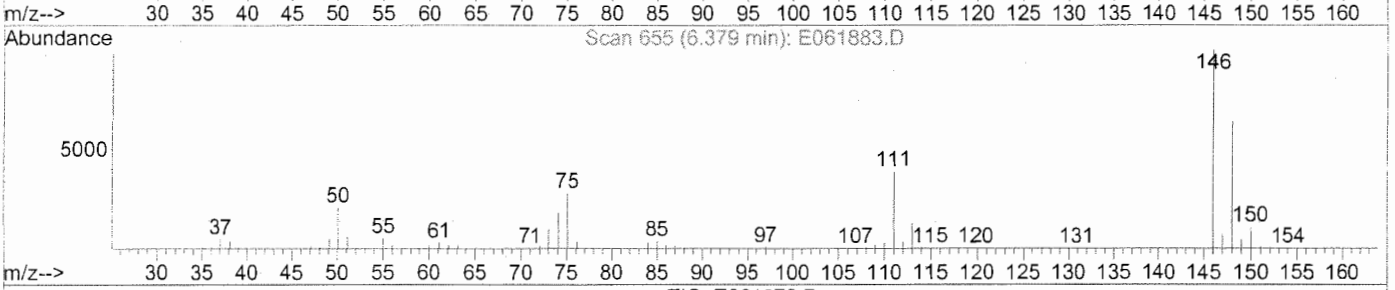
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Single Level Calibration







TIC: E061879.D

(13) 1,4-Dichlorobenzene (CMT)

6.31min 2.04mg/L

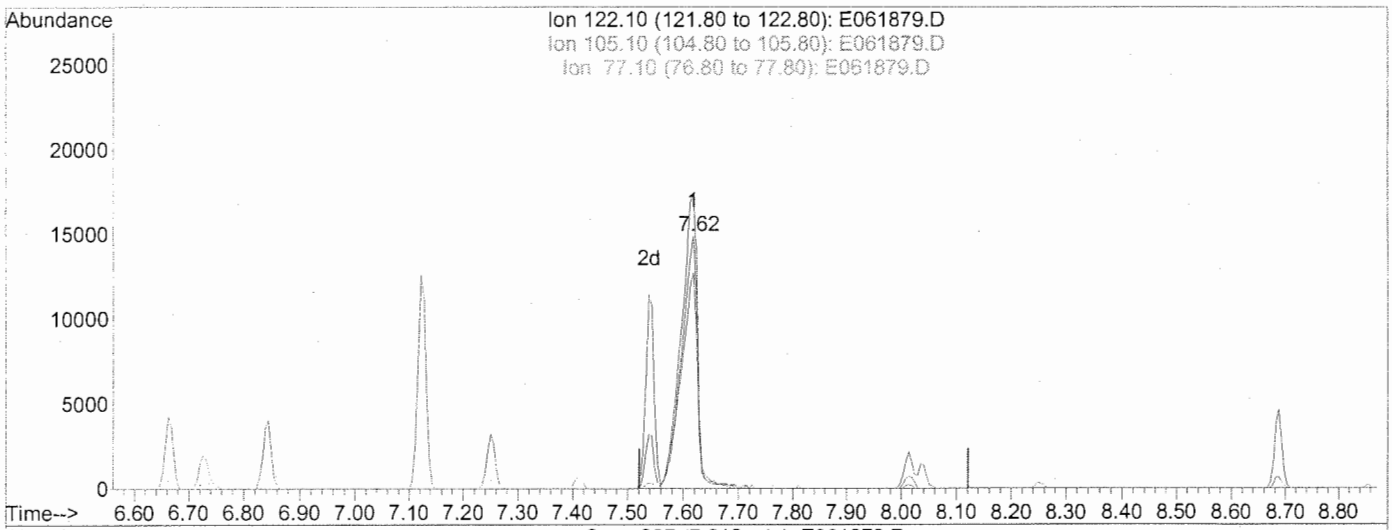
response 16136

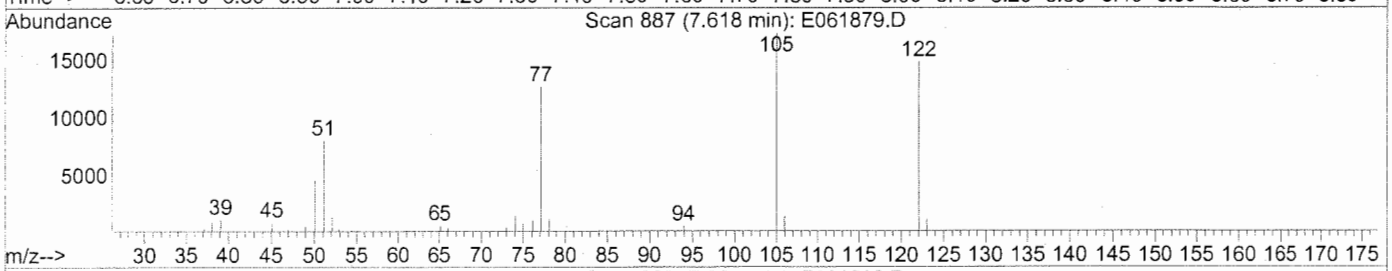
Ion	Exp%	Act%
146.00	100	100
148.00	64.40	62.54
111.00	38.30	39.50
0.00	0.00	0.00

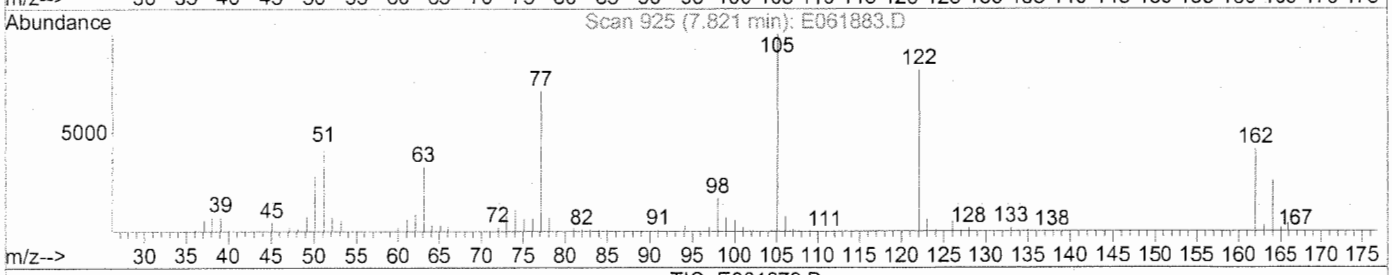
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:07 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Single Level Calibration







TIC: E061879.D

(28) Benzoic acid (T)

7.62min 1.40mg/L m

response 30756

Ion	Exp%	Act%
122.10	100	100
105.10	137.70	119.87
77.10	112.30	85.57#
0.00	0.00	0.00

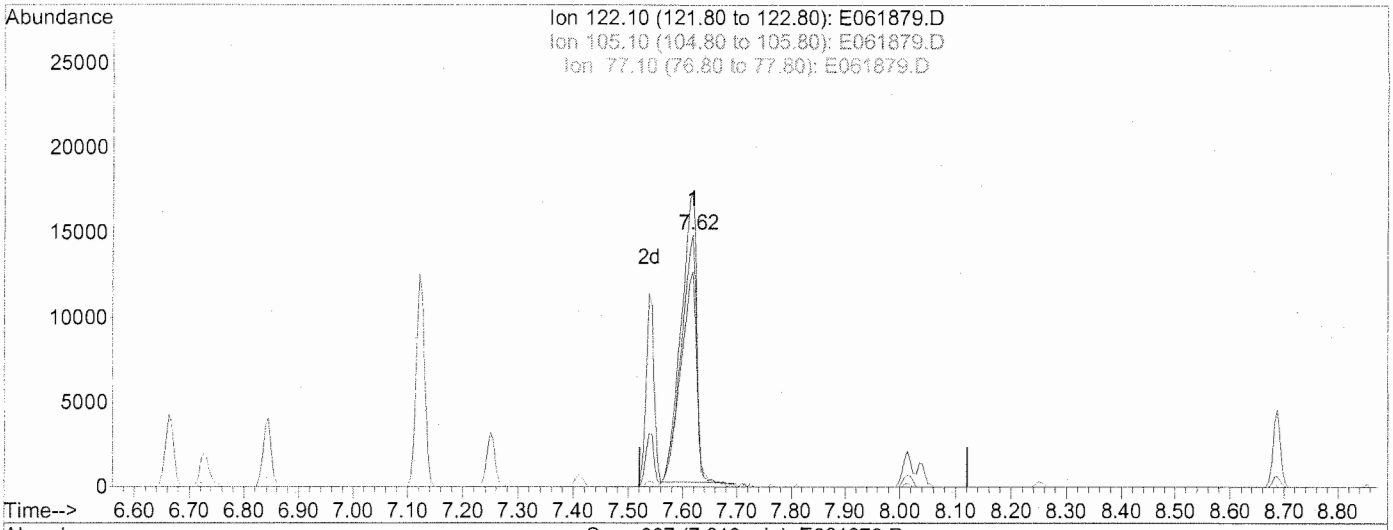
Baseline

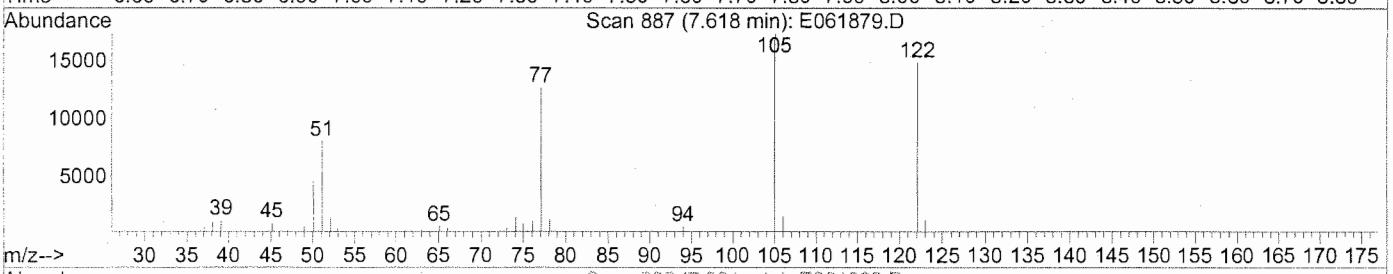
12/27/06

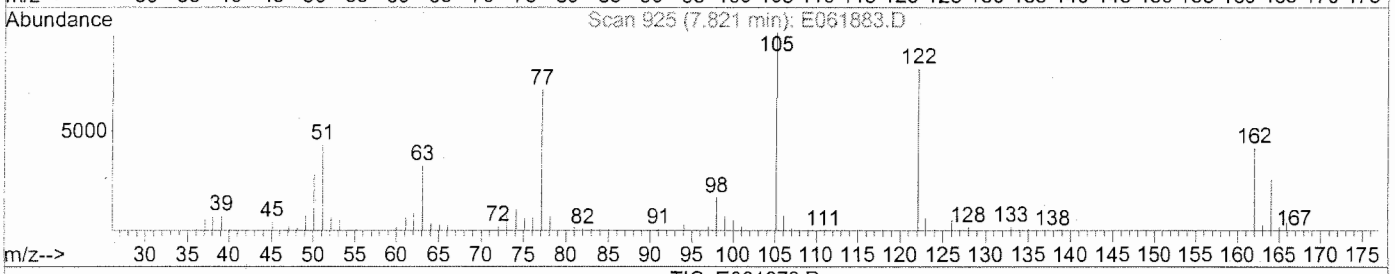
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Single Level Calibration







TIC: E061879.D

(28) Benzoic acid (T)

7.62min 1.30mg/L

response 28727

Ion	Exp%	Act%
122.10	100	100
105.10	137.70	128.34
77.10	112.30	91.61
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:06:25 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	194464	40.00	mg/L	0.00
22) Naphthalene-d8	8.01	136	768067	40.00	mg/L	0.00
37) Acenaphthene-d10	10.26	164	414550	40.00	mg/L	0.00
57) Phenanthrene-d10	12.15	188	610431	40.00	mg/L	0.00
70) Chrysene-d12	16.80	240	344813	40.00	mg/L	0.00
80) Perylene-d12	19.92	264	193306	40.00	mg/L	0.01
System Monitoring Compounds						
6) 2-Fluorophenol	4.72	112	11936	1.90	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.80%		
7) Phenol-d5	5.86	99	15767	1.95	mg/L	-0.02
Spiked Amount 50.000			Recovery =	3.90%		
23) Nitrobenzene-d5	7.10	82	12305	1.85	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.70%		
41) 2-Fluorobiphenyl	9.38	172	26079	2.01	mg/L	0.00
Spiked Amount 50.000			Recovery =	4.02%		
61) 2,4,6-Tribromophenol	11.26	330	2513	1.63	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.26%		
73) Terphenyl-d14	14.69	244	17730	1.69	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.38%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.03	88	5711	2.00	mg/L #	60
3) N-Nitrosodimethylamine	3.37	42	7576	2.06	mg/L	86
4) Pyridine	3.41	79	14992	2.02	mg/L #	49
5) PGMEA	4.64	43	27425	2.09	mg/L #	87
8) Phenol	5.88	94	16573	1.96	mg/L	93
9) Aniline	5.96	93	17230	1.70	mg/L	98
10) Bis(2-chloroethyl)ether	6.02	93	14191	2.06	mg/L	92
11) 2-Chlorophenol	6.12	128	14116	1.94	mg/L	97
12) 1,3-Dichlorobenzene	6.31	146	16136	2.06	mg/L	99
13) 1,4-Dichlorobenzene	6.31	146	16136	2.04	mg/L	98
14) Benzyl alcohol	6.52	108	8738	1.87	mg/L #	73
15) 1,2-Dichlorobenzene	6.62	146	15041	2.02	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.59	99	8347	1.79	mg/L	97
17) 2-Methylphenol	6.66	108	12428	1.97	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.73	45	27369	2.10	mg/L #	78
19) 4-Methylphenol	6.84	107	15197	1.88	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.90	70	8945	1.86	mg/L #	75
21) Hexachloroethane	7.03	117	5728	1.94	mg/L #	78
24) Nitrobenzene	7.12	77	13447	1.96	mg/L #	79
25) Isophorone	7.41	82	22775	1.81	mg/L	92
26) 2-Nitrophenol	7.54	139	6609	1.75	mg/L #	83
27) 2,4-Dimethylphenol	7.54	122	12088	1.91	mg/L #	82
28) Benzoic acid	7.62	122	28727	1.30	mg/L	87
29) Bis(2-chloroethoxy)methane	7.67	93	15226	1.97	mg/L	89
30) 2,4-Dichlorophenol	7.82	162	10016	1.86	mg/L	98
31) 1,2,4-Trichlorobenzene	7.95	180	11256	1.99	mg/L	99
32) Naphthalene	8.04	128	40434	2.03	mg/L	98
33) 4-Chloroaniline	8.10	127	12107	1.53	mg/L	94
34) Hexachlorobutadiene	8.25	225	5873	1.95	mg/L	97
35) 4-Chloro-3-methylphenol	8.69	107	9438	1.67	mg/L	88
36) 2-Methylnaphthalene	8.91	142	26638	1.95	mg/L	99
38) Hexachlorocyclopentadiene	9.19	237	6159	1.82	mg/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:06:25 2006 Quant Results File: BA061226.RES

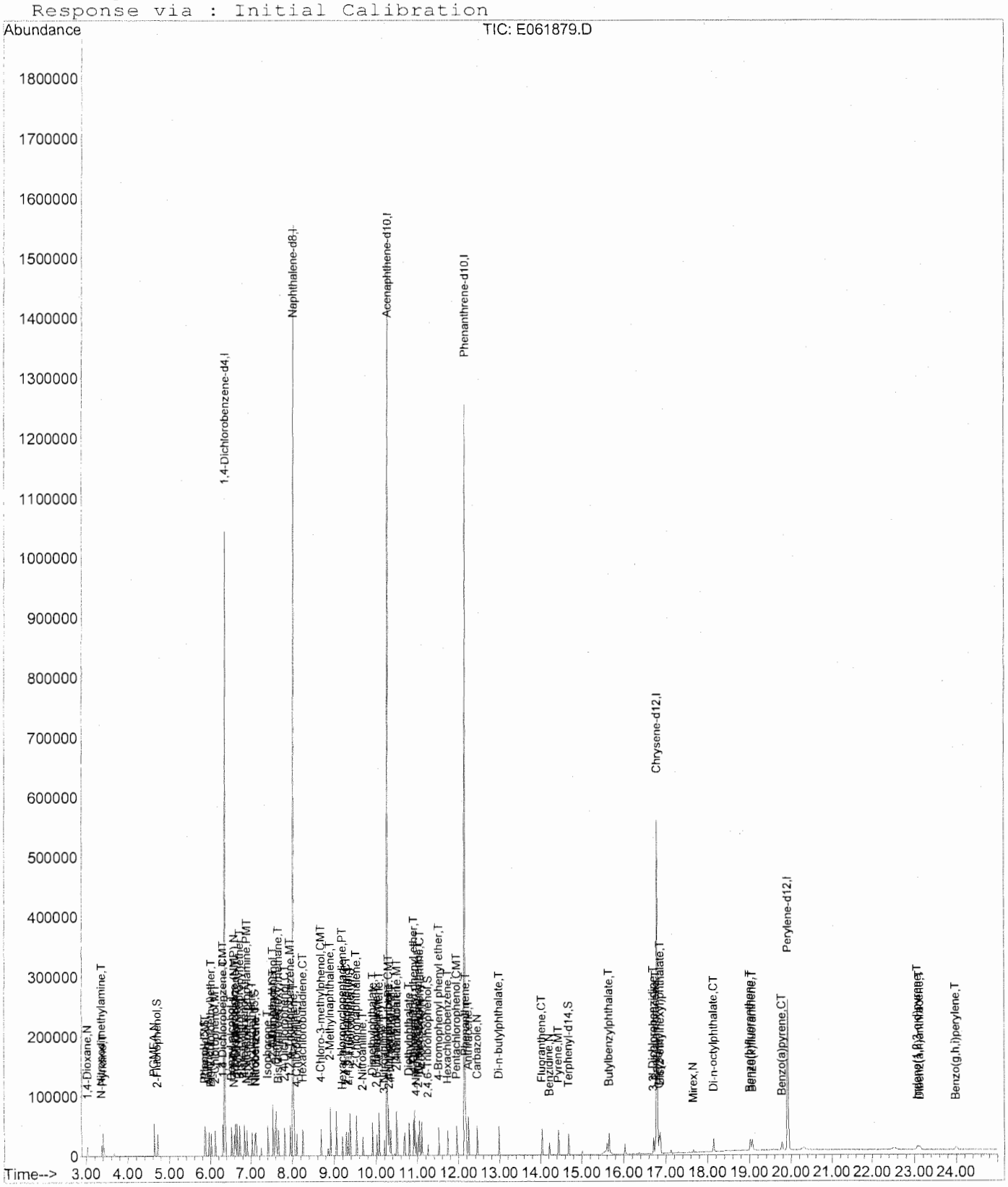
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	6205	1.77	mg/L		99
40)	2,4,5-Trichlorophenol	9.33	196	6791	1.79	mg/L		97
42)	2-Chloronaphthalene	9.53	162	23257	2.00	mg/L		98
43)	2-Nitroaniline	9.68	65	6219	1.66	mg/L		96
44)	Dimethylphthalate	9.92	163	24535	1.90	mg/L		96
45)	Acenaphthylene	10.07	152	36383	1.91	mg/L		99
46)	2,6-Dinitrotoluene	10.02	165	5290	1.70	mg/L		94
47)	3-Nitroaniline	10.19	138	4871	1.80	mg/L		89
48)	Acenaphthene	10.30	154	24496	1.87	mg/L		92
49)	2,4-Dinitrophenol	10.32	184	4155	1.14	mg/L	#	1
50)	4-Nitrophenol	10.35	109	4717	1.54	mg/L	#	36
51)	Dibenzofuran	10.50	168	32495	1.99	mg/L		95
52)	2,4-Dinitrotoluene	10.51	165	6748	1.69	mg/L	#	83
53)	Fluorene	10.93	166	25960	1.94	mg/L		99
54)	Diethylphthalate	10.80	149	24815	1.89	mg/L		96
55)	4-Chlorophenyl phenyl ethe	10.90	204	11124	1.93	mg/L		94
56)	4-Nitroaniline	10.97	138	4501	1.89	mg/L	#	86
58)	2-Methyl-4,6-dinitrophenol	11.02	198	5882	1.35	mg/L	#	82
59)	N-Nitrosodiphenylamine	11.05	169	17698	2.06	mg/L		99
60)	Azobenzene	11.10	77	24527	1.95	mg/L	#	94
62)	4-Bromophenyl phenyl ether	11.52	248	6215	1.91	mg/L		99
63)	Hexachlorobenzene	11.74	284	6736	1.98	mg/L		95
64)	Pentachlorophenol	11.96	266	6805	1.44	mg/L		97
65)	Phenanthrene	12.19	178	34533	2.04	mg/L		99
66)	Anthracene	12.24	178	32086	1.90	mg/L		99
67)	Carbazole	12.45	167	27290	3.37	mg/L		97
68)	Di-n-butylphthalate	12.98	149	32778	1.67	mg/L		99
69)	Fluoranthene	14.03	202	27173	1.85	mg/L	#	93
71)	Benzidine	14.22	184	13622	1.62	mg/L	#	95
72)	Pyrene	14.44	202	27600	1.71	mg/L		99
74)	Butylbenzylphthalate	15.65	149	12726	1.70	mg/L	#	92
75)	3,3'-Dichlorobenzidine	16.71	252	10668	2.24	mg/L	#	97
76)	Benz(a)anthracene	16.76	228	19795	1.95	mg/L		98
77)	Chrysene	16.84	228	19239	2.07	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	16.87	149	14646	1.47	mg/L		99
79)	Mirex	17.67	272	1489	1.38	mg/L		97
81)	Di-n-octylphthalate	18.15	149	18093	1.10	mg/L		100
82)	Benzo(b)fluoranthene	19.01	252	15261	2.08	mg/L	#	94
83)	Benzo(k)fluoranthene	19.07	252	15216	2.22	mg/L	#	94
84)	Benzo(a)pyrene	19.77	252	11661	2.06	mg/L	#	90
85)	Indeno(1,2,3-c,d)pyrene	23.06	276	8946	2.09	mg/L	#	92
86)	Dibenz(a,h)anthracene	23.12	278	7378	2.00	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.99	276	7032	2.01	mg/L	#	64

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061879.D Vial: 4
Acq On : 26 Dec 2006 2:51 pm Operator: SC
Sample : 2PPM 8270 79-4 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:06 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061880.D Vial: 5
Acq On : 26 Dec 2006 3:23 pm Operator: SC
Sample : 4PPM 8270 79-5 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:05:23 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	195783	40.00	mg/L	0.00
22) Naphthalene-d8	8.01	136	766038	40.00	mg/L	0.00
37) Acenaphthene-d10	10.26	164	415428	40.00	mg/L	0.00
57) Phenanthrene-d10	12.15	188	621089	40.00	mg/L	0.00
70) Chrysene-d12	16.79	240	343966	40.00	mg/L	0.00
80) Perylene-d12	19.92	264	189472	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.72	112	24691	3.91	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.82%		
7) Phenol-d5	5.86	99	31803	3.91	mg/L	-0.01
Spiked Amount 50.000			Recovery =	7.82%		
23) Nitrobenzene-d5	7.10	82	25217	3.81	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.62%		
41) 2-Fluorobiphenyl	9.38	172	52629	4.04	mg/L	0.00
Spiked Amount 50.000			Recovery =	8.08%		
61) 2,4,6-Tribromophenol	11.26	330	5526	3.53	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.06%		
73) Terphenyl-d14	14.68	244	37099	3.54	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.08%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.03	88	11834	4.11	mg/L #	59
3) N-Nitrosodimethylamine	3.37	42	15210	4.11	mg/L	86
4) Pyridine	3.41	79	29711	3.97	mg/L #	46
5) PGMEA	4.64	43	54739	4.14	mg/L #	87
8) Phenol	5.88	94	33628	3.95	mg/L	92
9) Aniline	5.97	93	37372	3.66	mg/L	99
10) Bis(2-chloroethyl)ether	6.02	93	28117	4.05	mg/L	90
11) 2-Chlorophenol	6.12	128	28224	3.86	mg/L	97
12) 1,3-Dichlorobenzene	6.31	146	31639	4.02	mg/L	100
13) 1,4-Dichlorobenzene	6.37	146	32813	4.12	mg/L	94
14) Benzyl alcohol	6.52	108	17542	3.73	mg/L #	76
15) 1,2-Dichlorobenzene	6.62	146	30603	4.07	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.59	99	17757	3.78	mg/L	99
17) 2-Methylphenol	6.66	108	24554	3.86	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.73	45	54348	4.14	mg/L #	78
19) 4-Methylphenol	6.84	107	30903	3.80	mg/L #	91
20) N-Nitrosodi-n-propylamine	6.90	70	18421	3.80	mg/L #	72
21) Hexachloroethane	7.03	117	11713	3.94	mg/L #	79
24) Nitrobenzene	7.12	77	26766	3.91	mg/L #	75
25) Isophorone	7.41	82	47557	3.78	mg/L	95
26) 2-Nitrophenol	7.53	139	13884	3.69	mg/L #	86
27) 2,4-Dimethylphenol	7.54	122	24842	3.94	mg/L #	81
28) Benzoic acid	7.64	122	63051	2.87	mg/L #	82
29) Bis(2-chloroethoxy)methane	7.67	93	31041	4.03	mg/L	89
30) 2,4-Dichlorophenol	7.82	162	20641	3.84	mg/L	97
31) 1,2,4-Trichlorobenzene	7.95	180	22997	4.07	mg/L	99
32) Naphthalene	8.04	128	81223	4.08	mg/L	99
33) 4-Chloroaniline	8.10	127	26847	3.40	mg/L	96
34) Hexachlorobutadiene	8.25	225	11884	3.95	mg/L	98
35) 4-Chloro-3-methylphenol	8.68	107	20714	3.68	mg/L	94
36) 2-Methylnaphthalene	8.91	142	53864	3.96	mg/L	98
38) Hexachlorocyclopentadiene	9.19	237	12748	3.75	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061880.D Vial: 5
Acq On : 26 Dec 2006 3:23 pm Operator: SC
Sample : 4PPM 8270 79-5 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:05:23 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

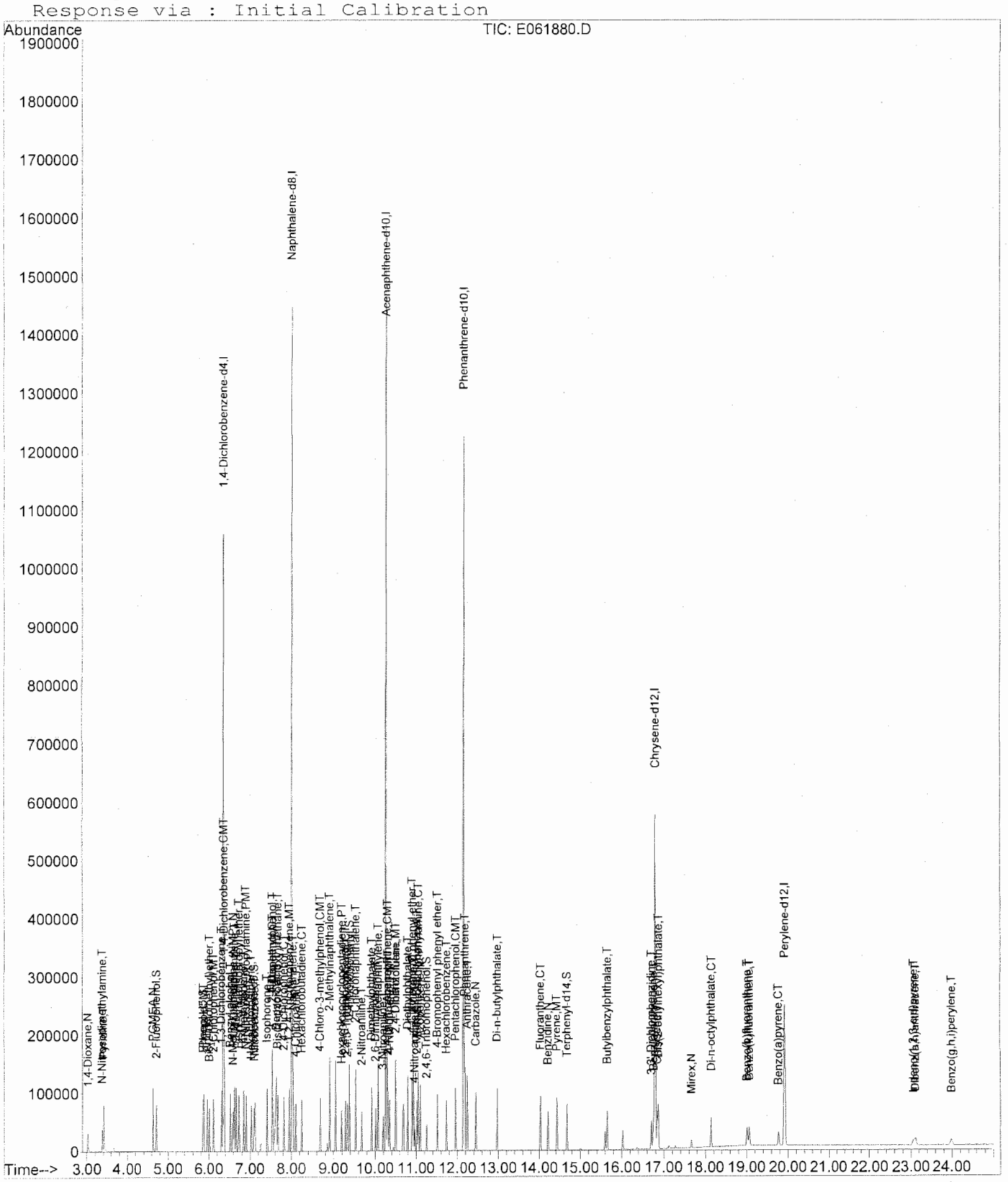
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	13289	3.78	mg/L		99
40)	2,4,5-Trichlorophenol	9.33	196	14315	3.76	mg/L	#	97
42)	2-Chloronaphthalene	9.53	162	47611	4.08	mg/L		98
43)	2-Nitroaniline	9.68	65	13046	3.47	mg/L		94
44)	Dimethylphthalate	9.92	163	50630	3.91	mg/L		96
45)	Acenaphthylene	10.07	152	75296	3.95	mg/L		100
46)	2,6-Dinitrotoluene	10.01	165	11196	3.59	mg/L		92
47)	3-Nitroaniline	10.19	138	10353	3.82	mg/L		90
48)	Acenaphthene	10.30	154	50720	3.86	mg/L		89
49)	2,4-Dinitrophenol	10.32	184	9180	2.51	mg/L	#	1
50)	4-Nitrophenol	10.35	109	10318	3.36	mg/L	#	42
51)	Dibenzofuran	10.49	168	66015	4.03	mg/L		93
52)	2,4-Dinitrotoluene	10.51	165	14488	3.62	mg/L	#	84
53)	Fluorene	10.93	166	52619	3.93	mg/L		99
54)	Diethylphthalate	10.79	149	50964	3.87	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.90	204	23358	4.05	mg/L		95
56)	4-Nitroaniline	10.96	138	7806	3.26	mg/L	#	84
58)	2-Methyl-4,6-dinitrophenol	11.02	198	13306	3.01	mg/L	#	81
59)	N-Nitrosodiphenylamine	11.05	169	37157	4.25	mg/L		99
60)	Azobenzene	11.10	77	50603	3.95	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.51	248	13073	3.94	mg/L		99
63)	Hexachlorobenzene	11.73	284	13807	3.99	mg/L		94
64)	Pentachlorophenol	11.96	266	15073	3.14	mg/L		99
65)	Phenanthrene	12.18	178	69663	4.04	mg/L		100
66)	Anthracene	12.24	178	66940	3.89	mg/L		99
67)	Carbazole	12.45	167	53658	6.51	mg/L		99
68)	Di-n-butylphthalate	12.98	149	72554	3.64	mg/L		99
69)	Fluoranthene	14.03	202	57212	3.83	mg/L	#	93
71)	Benzidine	14.22	184	39459	4.72	mg/L	#	96
72)	Pyrene	14.43	202	58878	3.66	mg/L		99
74)	Butylbenzylphthalate	15.65	149	24348	3.27	mg/L		94
75)	3,3'-Dichlorobenzidine	16.70	252	18752	3.95	mg/L	#	96
76)	Benz(a)anthracene	16.75	228	38548	3.80	mg/L		99
77)	Chrysene	16.84	228	37385	4.04	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.87	149	31411	3.17	mg/L		99
79)	Mirex	17.66	272	3443	3.21	mg/L		96
81)	Di-n-octylphthalate	18.14	149	37199	2.30	mg/L		99
82)	Benzo(b)fluoranthene	19.01	252	25417	3.53	mg/L	#	94
83)	Benzo(k)fluoranthene	19.06	252	25575	3.81	mg/L	#	91
84)	Benzo(a)pyrene	19.77	252	19482	3.52	mg/L	#	94
85)	Indeno(1,2,3-c,d)pyrene	23.05	276	15521	3.71	mg/L	#	85
86)	Dibenz(a,h)anthracene	23.11	278	13761	3.80	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.99	276	13267	3.86	mg/L	#	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061880.D Vial: 5
Acq On : 26 Dec 2006 3:23 pm Operator: SC
Sample : 4PPM 8270 79-5 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:05 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061881.D Vial: 6
Acq On : 26 Dec 2006 3:56 pm Operator: SC
Sample : 10PPM 8270 79-6 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 08:56:21 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	183318	40.00	mg/L		0.00
22) Naphthalene-d8	8.01	136	717819	40.00	mg/L		0.00
37) Acenaphthene-d10	10.26	164	389154	40.00	mg/L		0.00
57) Phenanthrene-d10	12.15	188	575672	40.00	mg/L		0.00
70) Chrysene-d12	16.79	240	319780	40.00	mg/L		0.00
80) Perylene-d12	19.91	264	177692	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.72	112	58332	9.86	mg/L		0.00
Spiked Amount 50.000			Recovery = 19.72%				
7) Phenol-d5	5.86	99	75056	9.86	mg/L		-0.01
Spiked Amount 50.000			Recovery = 19.72%				
23) Nitrobenzene-d5	7.10	82	60952	9.82	mg/L		0.00
Spiked Amount 50.000			Recovery = 19.64%				
41) 2-Fluorobiphenyl	9.38	172	123762	10.15	mg/L		0.00
Spiked Amount 50.000			Recovery = 20.30%				
61) 2,4,6-Tribromophenol	11.25	330	13602	9.36	mg/L		-0.01
Spiked Amount 50.000			Recovery = 18.72%				
73) Terphenyl-d14	14.68	244	88893	9.12	mg/L		0.00
Spiked Amount 50.000			Recovery = 18.24%				
Target Compounds							Qvalue
2) 1,4-Dioxane	3.02	88	27196	10.09	mg/L	#	62
3) N-Nitrosodimethylamine	3.37	42	34517	9.96	mg/L		90
4) Pyridine	3.40	79	69092	9.87	mg/L	#	46
5) PGMEA	4.63	43	128981	10.42	mg/L	#	87
8) Phenol	5.88	94	80311	10.07	mg/L		92
9) Aniline	5.97	93	94936	9.93	mg/L		100
10) Bis(2-chloroethyl)ether	6.02	93	65554	10.08	mg/L		92
11) 2-Chlorophenol	6.12	128	66895	9.76	mg/L		98
12) 1,3-Dichlorobenzene	6.31	146	73314	9.95	mg/L		99
13) 1,4-Dichlorobenzene	6.37	146	75692	10.15	mg/L		98
14) Benzyl alcohol	6.52	108	42651	9.67	mg/L	#	75
15) 1,2-Dichlorobenzene	6.62	146	70058	9.96	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.60	99	41830	9.51	mg/L		100
17) 2-Methylphenol	6.67	108	58958	9.89	mg/L		99
18) Bis(2-chloroisopropyl)ethe	6.73	45	128124	10.43	mg/L	#	78
19) 4-Methylphenol	6.84	107	74201	9.74	mg/L	#	93
20) N-Nitrosodi-n-propylamine	6.90	70	43604	9.61	mg/L	#	73
21) Hexachloroethane	7.03	117	28059	10.09	mg/L	#	77
24) Nitrobenzene	7.12	77	64128	10.00	mg/L	#	76
25) Isophorone	7.41	82	114701	9.73	mg/L		93
26) 2-Nitrophenol	7.53	139	36551	10.37	mg/L	#	88
27) 2,4-Dimethylphenol	7.54	122	57167	9.68	mg/L	#	82
28) Benzoic acid	7.68	122	173684	8.44	mg/L	#	81
29) Bis(2-chloroethoxy)methane	7.67	93	72278	10.01	mg/L	#	76
30) 2,4-Dichlorophenol	7.82	162	49991	9.92	mg/L		98
31) 1,2,4-Trichlorobenzene	7.95	180	53828	10.18	mg/L		100
32) Naphthalene	8.04	128	192000	10.30	mg/L		99
33) 4-Chloroaniline	8.10	127	62718	8.48	mg/L		95
34) Hexachlorobutadiene	8.25	225	28054	9.95	mg/L		99
35) 4-Chloro-3-methylphenol	8.69	107	50169	9.51	mg/L		92
36) 2-Methylnaphthalene	8.91	142	127569	10.01	mg/L		98
38) Hexachlorocyclopentadiene	9.19	237	31013	9.74	mg/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061881.D Vial: 6
Acq On : 26 Dec 2006 3:56 pm Operator: SC
Sample : 10PPM 8270 79-6 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 08:56:21 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

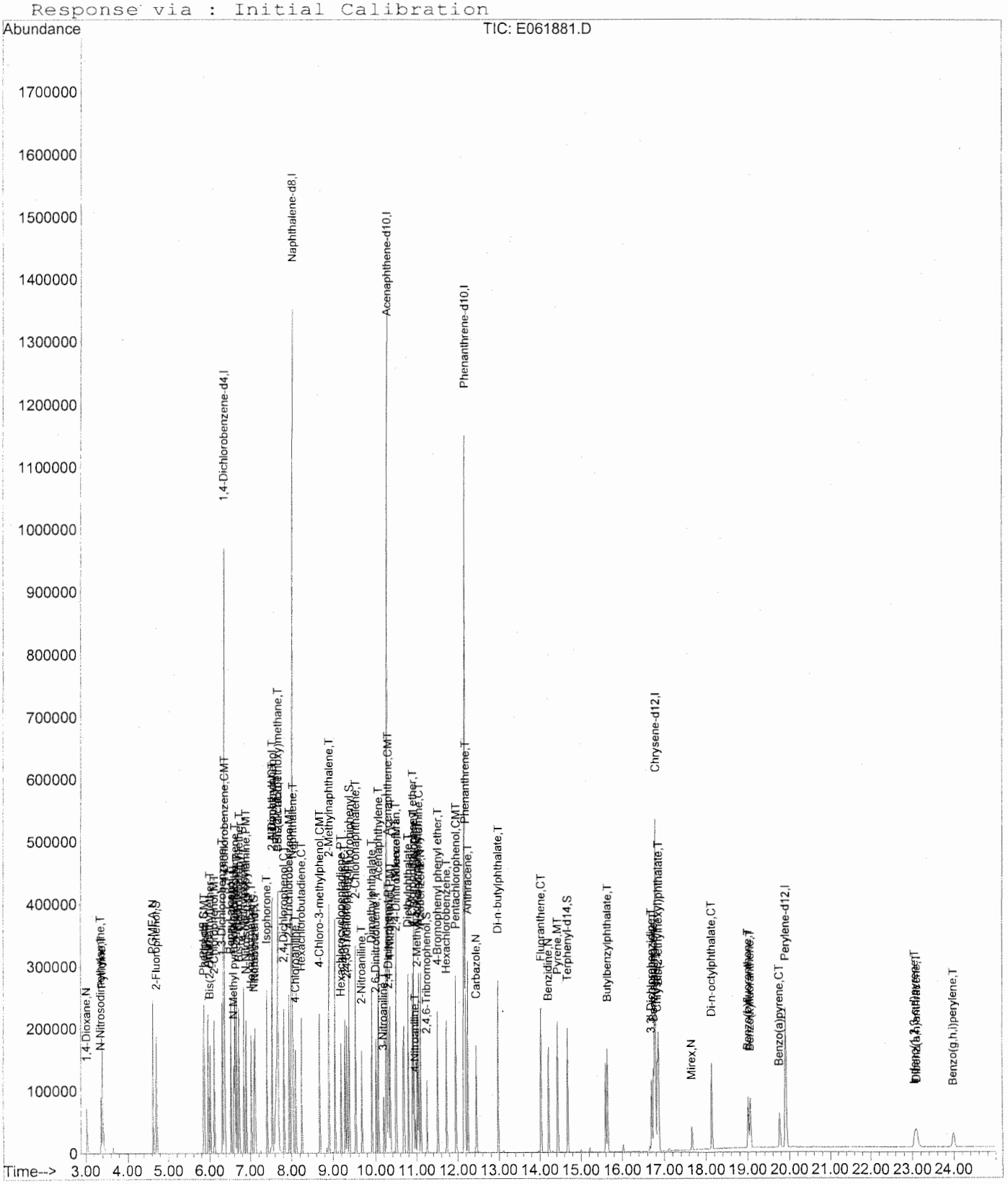
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	31458	9.55	mg/L		98
40)	2,4,5-Trichlorophenol	9.33	196	34119	9.58	mg/L	#	96
42)	2-Chloronaphthalene	9.53	162	110053	10.06	mg/L		99
43)	2-Nitroaniline	9.68	65	33301	9.45	mg/L		94
44)	Dimethylphthalate	9.92	163	120513	9.93	mg/L		97
45)	Acenaphthylene	10.07	152	180446	10.11	mg/L		99
46)	2,6-Dinitrotoluene	10.02	165	28190	9.64	mg/L		95
47)	3-Nitroaniline	10.20	138	18626	7.34	mg/L		88
48)	Acenaphthene	10.30	154	121294	9.86	mg/L		88
49)	2,4-Dinitrophenol	10.32	184	26775	7.80	mg/L	#	1
50)	4-Nitrophenol	10.35	109	26471	9.21	mg/L	#	43
51)	Dibenzofuran	10.49	168	152921	9.96	mg/L		95
52)	2,4-Dinitrotoluene	10.51	165	34880	9.31	mg/L	#	86
53)	Fluorene	10.93	166	124614	9.94	mg/L		98
54)	Diethylphthalate	10.79	149	120992	9.80	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.90	204	53806	9.96	mg/L		93
56)	4-Nitroaniline	10.97	138	13299	5.93	mg/L	#	85
58)	2-Methyl-4,6-dinitrophenol	11.02	198	35792	8.74	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.05	169	84049	10.36	mg/L		99
60)	Azobenzene	11.10	77	120536	10.15	mg/L	#	94
62)	4-Bromophenyl phenyl ether	11.52	248	29938	9.74	mg/L		99
63)	Hexachlorobenzene	11.73	284	32192	10.04	mg/L		95
64)	Pentachlorophenol	11.96	266	39389	8.84	mg/L		98
65)	Phenanthrene	12.18	178	161896	10.12	mg/L		100
66)	Anthracene	12.24	178	158813	9.97	mg/L		99
67)	Carbazole	12.45	167	96117	12.58	mg/L		98
68)	Di-n-butylphthalate	12.98	149	180956	9.79	mg/L		99
69)	Fluoranthene	14.03	202	137046	9.91	mg/L	#	93
71)	Benzidine	14.22	184	94014	12.09	mg/L	#	97
72)	Pyrene	14.44	202	136734	9.14	mg/L		99
74)	Butylbenzylphthalate	15.65	149	60753	8.77	mg/L		96
75)	3,3'-Dichlorobenzidine	16.70	252	43247	9.79	mg/L	#	96
76)	Benz(a)anthracene	16.75	228	91312	9.68	mg/L		99
77)	Chrysene	16.84	228	87142	10.12	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.87	149	79999	8.67	mg/L		98
79)	Mirex	17.66	272	8800	8.82	mg/L		99
81)	Di-n-octylphthalate	18.14	149	104181	6.88	mg/L		99
82)	Benzo(b)fluoranthene	19.01	252	58718	8.69	mg/L	#	94
83)	Benzo(k)fluoranthene	19.06	252	60292	9.57	mg/L	#	94
84)	Benzo(a)pyrene	19.77	252	47458	9.14	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.06	276	38413	9.78	mg/L	#	51
86)	Dibenz(a,h)anthracene	23.11	278	33516	9.86	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.99	276	32402	10.06	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061881.D Vial: 6
Acq On : 26 Dec 2006 3:56 pm Operator: SC
Sample : 10PPM 8270 79-6 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 8:56 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061882.D Vial: 7
Acq On : 26 Dec 2006 4:28 pm Operator: SC
Sample : 25PPM 8270 79-7 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 08:58:45 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	174410	40.00	mg/L		0.00
22) Naphthalene-d8	8.01	136	694619	40.00	mg/L		0.00
37) Acenaphthene-d10	10.26	164	382921	40.00	mg/L		0.00
57) Phenanthrene-d10	12.15	188	582081	40.00	mg/L		0.00
70) Chrysene-d12	16.79	240	330836	40.00	mg/L		0.00
80) Perylene-d12	19.92	264	169785	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.72	112	140895	25.04	mg/L		0.00
Spiked Amount 50.000			Recovery = 50.08%				
7) Phenol-d5	5.87	99	182567	25.21	mg/L		0.00
Spiked Amount 50.000			Recovery = 50.42%				
23) Nitrobenzene-d5	7.10	82	148866	24.80	mg/L		0.00
Spiked Amount 50.000			Recovery = 49.60%				
41) 2-Fluorobiphenyl	9.38	172	300414	25.05	mg/L		0.00
Spiked Amount 50.000			Recovery = 50.10%				
61) 2,4,6-Tribromophenol	11.26	330	35942	24.47	mg/L		0.00
Spiked Amount 50.000			Recovery = 48.94%				
73) Terphenyl-d14	14.68	244	231117	22.93	mg/L		0.00
Spiked Amount 50.000			Recovery = 45.86%				
Target Compounds							Qvalue
2) 1,4-Dioxane	3.02	88	63944	24.94	mg/L	#	60
3) N-Nitrosodimethylamine	3.37	42	83974	25.47	mg/L		89
4) Pyridine	3.40	79	167462	25.13	mg/L	#	48
5) PGMEA	4.64	43	303263	25.76	mg/L	#	87
8) Phenol	5.88	94	192914	25.42	mg/L		92
9) Aniline	5.97	93	225363	24.77	mg/L		100
10) Bis(2-chloroethyl)ether	6.02	93	158488	25.62	mg/L		92
11) 2-Chlorophenol	6.12	128	162396	24.91	mg/L		97
12) 1,3-Dichlorobenzene	6.31	146	176317	25.14	mg/L		100
13) 1,4-Dichlorobenzene	6.38	146	179715	25.34	mg/L		99
14) Benzyl alcohol	6.53	108	105090	25.05	mg/L	#	76
15) 1,2-Dichlorobenzene	6.62	146	166706	24.90	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.62	99	105050	25.10	mg/L		100
17) 2-Methylphenol	6.68	108	143686	25.33	mg/L		98
18) Bis(2-chloroisopropyl)ethe	6.73	45	303697	25.98	mg/L	#	78
19) 4-Methylphenol	6.85	107	182654	25.21	mg/L	#	92
20) N-Nitrosodi-n-propylamine	6.91	70	106203	24.60	mg/L	#	74
21) Hexachloroethane	7.03	117	66655	25.20	mg/L	#	78
24) Nitrobenzene	7.13	77	156306	25.19	mg/L	#	77
25) Isophorone	7.42	82	282105	24.72	mg/L		93
26) 2-Nitrophenol	7.54	139	108646	31.86	mg/L	#	82
27) 2,4-Dimethylphenol	7.54	122	142653	24.96	mg/L	#	82
28) Benzoic acid	7.75	122	487209	24.45	mg/L	#	80
29) Bis(2-chloroethoxy)methane	7.68	93	175598	25.14	mg/L	#	85
30) 2,4-Dichlorophenol	7.83	162	120784	24.77	mg/L		98
31) 1,2,4-Trichlorobenzene	7.95	180	128384	25.08	mg/L		99
32) Naphthalene	8.04	128	454155	25.17	mg/L		99
33) 4-Chloroaniline	8.11	127	139283	19.46	mg/L		95
34) Hexachlorobutadiene	8.25	225	67074	24.59	mg/L		100
35) 4-Chloro-3-methylphenol	8.69	107	124979	24.48	mg/L		92
36) 2-Methylnaphthalene	8.91	142	311689	25.27	mg/L		98
38) Hexachlorocyclopentadiene	9.19	237	77141	24.62	mg/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061882.D Vial: 7
Acq On : 26 Dec 2006 4:28 pm Operator: SC
Sample : 25PPM 8270 79-7 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 08:58:45 2006 Quant Results File: BA061226.RES

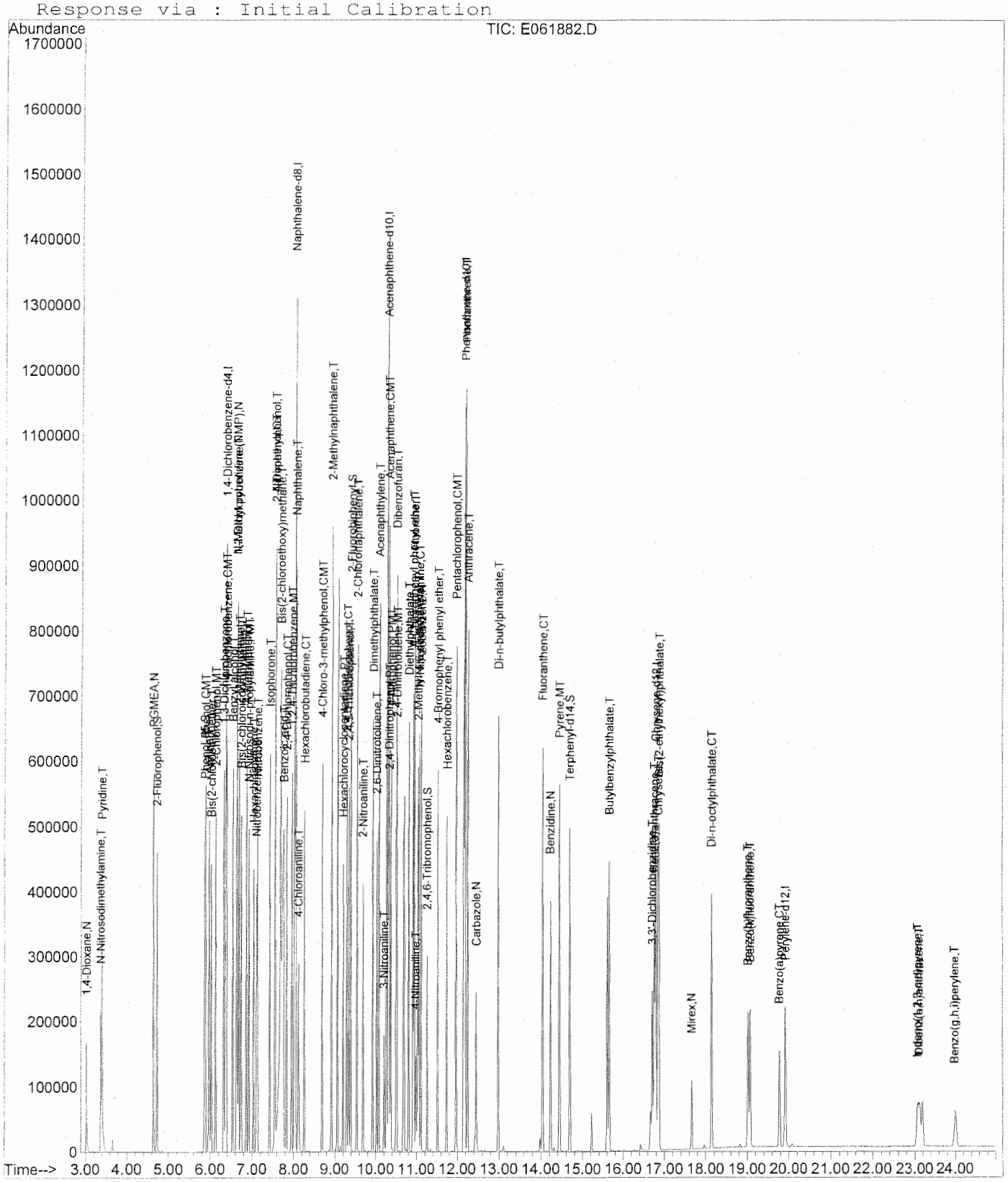
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	80200	24.75	mg/L		99
40)	2,4,5-Trichlorophenol	9.33	196	87167	24.86	mg/L		97
42)	2-Chloronaphthalene	9.53	162	269745	25.05	mg/L		98
43)	2-Nitroaniline	9.68	65	85100	24.55	mg/L		93
44)	Dimethylphthalate	9.92	163	300089	25.13	mg/L		96
45)	Acenaphthylene	10.07	152	445453	25.36	mg/L		99
46)	2,6-Dinitrotoluene	10.02	165	71363	24.79	mg/L		93
47)	3-Nitroaniline	10.20	138	37238	14.91	mg/L		87
48)	Acenaphthene	10.31	154	301718	24.93	mg/L		87
49)	2,4-Dinitrophenol	10.33	184	80962	23.98	mg/L	#	1
50)	4-Nitrophenol	10.36	109	74414	26.33	mg/L	#	48
51)	Dibenzofuran	10.50	168	379675	25.13	mg/L		95
52)	2,4-Dinitrotoluene	10.51	165	92325	25.05	mg/L	#	87
53)	Fluorene	10.94	166	309738	25.10	mg/L		99
54)	Diethylphthalate	10.80	149	300197	24.71	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.90	204	133676	25.15	mg/L		95
56)	4-Nitroaniline	10.98	138	40283	18.27	mg/L	#	89
58)	2-Methyl-4,6-dinitrophenol	11.03	198	100078	24.17	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.05	169	182527	22.25	mg/L		92
60)	Azobenzene	11.10	77	299745	24.96	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.52	248	75856	24.42	mg/L		99
63)	Hexachlorobenzene	11.74	284	78885	24.33	mg/L		96
64)	Pentachlorophenol	11.96	266	108625	24.12	mg/L		99
65)	Phenanthrene	12.19	178	409982	25.35	mg/L		99
66)	Anthracene	12.24	178	405658	25.18	mg/L		99
67)	Carbazole	12.45	167	143545	18.58	mg/L		98
68)	Di-n-butylphthalate	12.98	149	462104	24.72	mg/L		99
69)	Fluoranthene	14.03	202	365275	26.12	mg/L	#	93
71)	Benzidine	14.22	184	224306	27.87	mg/L	#	97
72)	Pyrene	14.44	202	359169	23.22	mg/L		99
74)	Butylbenzylphthalate	15.65	149	163761	22.84	mg/L		94
75)	3,3'-Dichlorobenzidine	16.71	252	92395	20.21	mg/L	#	96
76)	Benz(a)anthracene	16.75	228	242686	24.88	mg/L		99
77)	Chrysene	16.84	228	226179	25.38	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.87	149	214448	22.47	mg/L		98
79)	Mirex	17.66	272	22762	22.06	mg/L		98
81)	Di-n-octylphthalate	18.14	149	300605	20.78	mg/L		99
82)	Benzo(b)fluoranthene	19.01	252	152671	23.65	mg/L	#	94
83)	Benzo(k)fluoranthene	19.07	252	147573	24.52	mg/L	#	94
84)	Benzo(a)pyrene	19.77	252	120920	24.36	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.06	276	92191	24.57	mg/L	#	51
86)	Dibenz(a,h)anthracene	23.11	278	79976	24.63	mg/L	#	91
87)	Benzo(g,h,i)perylene	23.99	276	76058	24.70	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061882.D Vial: 7
Acq On : 26 Dec 2006 4:28 pm Operator: SC
Sample : 25PPM 8270 79-7 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 8:58 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061883.D Vial: 8
Acq On : 26 Dec 2006 5:01 pm Operator: SC
Sample : 50PPM 8270 79-8 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:00:04 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	187948	40.00	mg/L		0.00
22) Naphthalene-d8	8.02	136	748255	40.00	mg/L		0.00
37) Acenaphthene-d10	10.26	164	416321	40.00	mg/L		0.00
57) Phenanthrene-d10	12.15	188	621575	40.00	mg/L		0.00
70) Chrysene-d12	16.79	240	304961	40.00	mg/L		0.00
80) Perylene-d12	19.91	264	143248	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.73	112	303143	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
7) Phenol-d5	5.87	99	390169	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
23) Nitrobenzene-d5	7.11	82	323342	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
41) 2-Fluorobiphenyl	9.39	172	651981	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
61) 2,4,6-Tribromophenol	11.26	330	78431	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
73) Terphenyl-d14	14.69	244	464646	50.00	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.00%				
Target Compounds							Qvalue
2) 1,4-Dioxane	3.02	88	138145	50.00	mg/L	#	60
3) N-Nitrosodimethylamine	3.37	42	177615	50.00	mg/L		90
4) Pyridine	3.39	79	359004	50.00	mg/L	#	48
5) PGMEA	4.64	43	634263	50.00	mg/L	#	88
8) Phenol	5.89	94	408938	50.00	mg/L		93
9) Aniline	5.97	93	490129	50.00	mg/L		100
10) Bis(2-chloroethyl)ether	6.03	93	333366	50.00	mg/L		92
11) 2-Chlorophenol	6.12	128	351264	50.00	mg/L		98
12) 1,3-Dichlorobenzene	6.31	146	377857	50.00	mg/L		99
13) 1,4-Dichlorobenzene	6.38	146	382128	50.00	mg/L		99
14) Benzyl alcohol	6.53	108	226004	50.00	mg/L	#	76
15) 1,2-Dichlorobenzene	6.62	146	360704	50.00	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.67	99	225511	50.00	mg/L		100
17) 2-Methylphenol	6.69	108	305620	50.00	mg/L		98
18) Bis(2-chloroisopropyl)ethe	6.73	45	629933	50.00	mg/L	#	79
19) 4-Methylphenol	6.87	107	390329	50.00	mg/L	#	92
20) N-Nitrosodi-n-propylamine	6.92	70	232631	50.00	mg/L	#	77
21) Hexachloroethane	7.03	117	142528	50.00	mg/L	#	78
24) Nitrobenzene	7.13	77	334273	50.00	mg/L	#	78
25) Isophorone	7.42	82	614612	50.00	mg/L		93
26) 2-Nitrophenol	7.54	139	183669	50.00	mg/L	#	85
27) 2,4-Dimethylphenol	7.55	122	307860	50.00	mg/L	#	83
28) Benzoic acid	7.82	122	1073170	50.00	mg/L	#	81
29) Bis(2-chloroethoxy)methane	7.68	93	376231	50.00	mg/L	#	88
30) 2,4-Dichlorophenol	7.83	162	262590	50.00	mg/L		97
31) 1,2,4-Trichlorobenzene	7.95	180	275706	50.00	mg/L		99
32) Naphthalene	8.05	128	971733	50.00	mg/L		99
33) 4-Chloroaniline	8.11	127	385558	50.00	mg/L		96
34) Hexachlorobutadiene	8.25	225	146931	50.00	mg/L		99
35) 4-Chloro-3-methylphenol	8.69	107	274972	50.00	mg/L		92
36) 2-Methylnaphthalene	8.92	142	664393	50.00	mg/L		99
38) Hexachlorocyclopentadiene	9.19	237	170302	50.00	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061883.D Vial: 8
Acq On : 26 Dec 2006 5:01 pm Operator: SC
Sample : 50PPM 8270 79-8 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:00:04 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

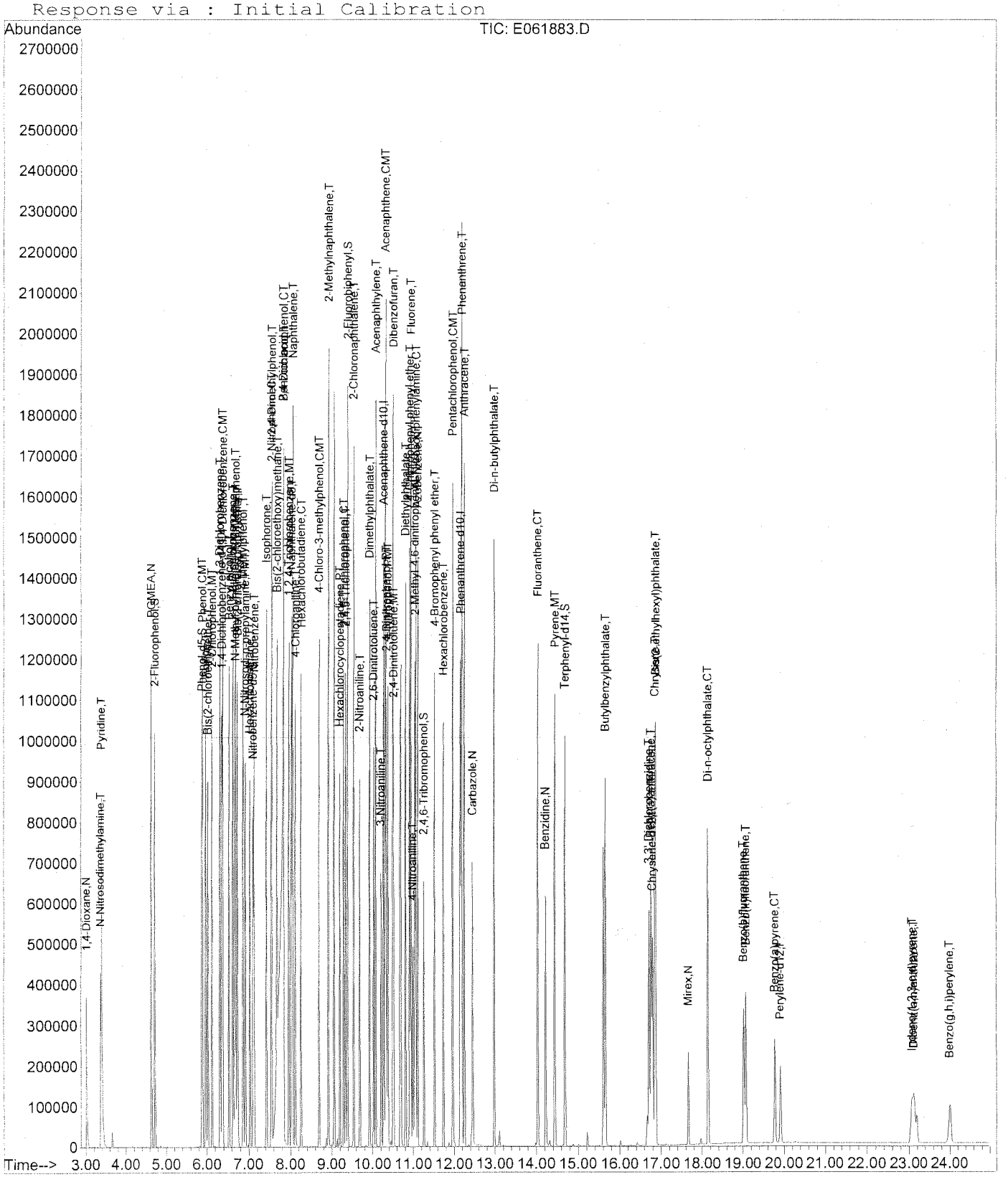
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	176148	50.00	mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	190603	50.00	mg/L	#	97
42)	2-Chloronaphthalene	9.54	162	585287	50.00	mg/L		98
43)	2-Nitroaniline	9.69	65	188474	50.00	mg/L		92
44)	Dimethylphthalate	9.93	163	649103	50.00	mg/L		97
45)	Acenaphthylene	10.08	152	954843	50.00	mg/L		100
46)	2,6-Dinitrotoluene	10.03	165	156478	50.00	mg/L		93
47)	3-Nitroaniline	10.20	138	135724	50.00	mg/L		85
48)	Acenaphthene	10.31	154	657877	50.00	mg/L		86
49)	2,4-Dinitrophenol	10.33	184	183527	50.00	mg/L	#	1
50)	4-Nitrophenol	10.37	109	153657	50.00	mg/L	#	43
51)	Dibenzofuran	10.50	168	821333	50.00	mg/L		95
52)	2,4-Dinitrotoluene	10.52	165	200327	50.00	mg/L	#	88
53)	Fluorene	10.94	166	670815	50.00	mg/L		99
54)	Diethylphthalate	10.81	149	660334	50.00	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.91	204	288899	50.00	mg/L		94
56)	4-Nitroaniline	10.99	138	119870	50.00	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	11.04	198	221061	50.00	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.06	169	437924	50.00	mg/L		92
60)	Azobenzene	11.11	77	641201	50.00	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.52	248	165866	50.00	mg/L		100
63)	Hexachlorobenzene	11.74	284	173139	50.00	mg/L		95
64)	Pentachlorophenol	11.96	266	240473	50.00	mg/L		98
65)	Phenanthrene	12.19	178	863568	50.00	mg/L		100
66)	Anthracene	12.25	178	860203	50.00	mg/L		99
67)	Carbazole	12.46	167	412577	50.00	mg/L		98
68)	Di-n-butylphthalate	12.98	149	998221	50.00	mg/L		99
69)	Fluoranthene	14.04	202	746526	50.00	mg/L	#	93
71)	Benzidine	14.22	184	370877	50.00	mg/L	#	97
72)	Pyrene	14.44	202	713009	50.00	mg/L		99
74)	Butylbenzylphthalate	15.65	149	330432	50.00	mg/L		94
75)	3,3'-Dichlorobenzidine	16.71	252	210687	50.00	mg/L	#	97
76)	Benz(a)anthracene	16.76	228	449645	50.00	mg/L		99
77)	Chrysene	16.85	228	410701	50.00	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.87	149	439941	50.00	mg/L		98
79)	Mirex	17.66	272	47551	50.00	mg/L		100
81)	Di-n-octylphthalate	18.14	149	610160	50.00	mg/L		100
82)	Benzo(b)fluoranthene	19.01	252	272375	50.00	mg/L	#	95
83)	Benzo(k)fluoranthene	19.07	252	253868	50.00	mg/L	#	94
84)	Benzo(a)pyrene	19.78	252	209373	50.00	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.07	276	158292	50.00	mg/L	#	51
86)	Dibenz(a,h)anthracene	23.12	278	136988	50.00	mg/L	#	89
87)	Benzo(g,h,i)perylene	24.00	276	129881	50.00	mg/L	#	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061883.D Vial: 8
Acq On : 26 Dec 2006 5:01 pm Operator: SC
Sample : 50PPM 8270 79-8 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:00 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061884.D Vial: 9
Acq On : 26 Dec 2006 5:33 pm Operator: SC
Sample : 70PPM 8270 79-9 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:02:35 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	184673	40.00	mg/L		0.00
22) Naphthalene-d8	8.02	136	740240	40.00	mg/L		0.00
37) Acenaphthene-d10	10.27	164	407271	40.00	mg/L		0.00
57) Phenanthrene-d10	12.16	188	621549	40.00	mg/L		0.00
70) Chrysene-d12	16.80	240	335336	40.00	mg/L		0.01
80) Perylene-d12	19.92	264	176484	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.73	112	416063	69.84	mg/L		0.00
Spiked Amount 50.000			Recovery =	139.68%			
7) Phenol-d5	5.88	99	537280	70.07	mg/L		0.00
Spiked Amount 50.000			Recovery =	140.14%			
23) Nitrobenzene-d5	7.11	82	447726	69.98	mg/L		0.00
Spiked Amount 50.000			Recovery =	139.96%			
41) 2-Fluorobiphenyl	9.39	172	900414	70.59	mg/L		0.00
Spiked Amount 50.000			Recovery =	141.18%			
61) 2,4,6-Tribromophenol	11.26	330	110498	70.45	mg/L		0.00
Spiked Amount 50.000			Recovery =	140.90%			
73) Terphenyl-d14	14.69	244	670040	65.57	mg/L		0.00
Spiked Amount 50.000			Recovery =	131.14%			
Target Compounds							Qvalue
2) 1,4-Dioxane	3.02	88	184236	67.86	mg/L	#	59
3) N-Nitrosodimethylamine	3.38	42	241045	69.06	mg/L		91
4) Pyridine	3.39	79	486917	69.02	mg/L	#	47
5) PGMEA	4.64	43	863719	69.30	mg/L	#	88
8) Phenol	5.90	94	562040	69.94	mg/L		93
9) Aniline	5.97	93	675855	70.17	mg/L		100
10) Bis(2-chloroethyl)ether	6.03	93	455961	69.60	mg/L		92
11) 2-Chlorophenol	6.12	128	480300	69.58	mg/L		97
12) 1,3-Dichlorobenzene	6.31	146	515234	69.39	mg/L		99
13) 1,4-Dichlorobenzene	6.38	146	521841	69.49	mg/L		100
14) Benzyl alcohol	6.54	108	309859	69.77	mg/L	#	77
15) 1,2-Dichlorobenzene	6.63	146	494704	69.79	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.69	99	313149	70.66	mg/L		100
17) 2-Methylphenol	6.69	108	420284	69.98	mg/L		99
18) Bis(2-chloroisopropyl)ethe	6.73	45	854351	69.02	mg/L	#	79
19) 4-Methylphenol	6.88	107	543132	70.81	mg/L	#	93
20) N-Nitrosodi-n-propylamine	6.93	70	320292	70.06	mg/L	#	76
21) Hexachloroethane	7.03	117	197069	70.36	mg/L	#	78
24) Nitrobenzene	7.14	77	462827	69.98	mg/L	#	79
25) Isophorone	7.43	82	846008	69.57	mg/L		93
26) 2-Nitrophenol	7.54	139	258562	71.15	mg/L	#	86
27) 2,4-Dimethylphenol	7.55	122	423389	69.51	mg/L	#	83
28) Benzoic acid	7.86	122	1518271	71.50	mg/L	#	82
29) Bis(2-chloroethoxy)methane	7.68	93	515808	69.29	mg/L	#	87
30) 2,4-Dichlorophenol	7.84	162	357560	68.82	mg/L		98
31) 1,2,4-Trichlorobenzene	7.95	180	379720	69.61	mg/L		99
32) Naphthalene	8.05	128	1347939	70.11	mg/L		99
33) 4-Chloroaniline	8.12	127	529785	69.45	mg/L		96
34) Hexachlorobutadiene	8.25	225	203459	69.99	mg/L		100
35) 4-Chloro-3-methylphenol	8.70	107	379764	69.80	mg/L		91
36) 2-Methylnaphthalene	8.92	142	923935	70.29	mg/L		98
38) Hexachlorocyclopentadiene	9.19	237	234243	70.30	mg/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061884.D Vial: 9
Acq On : 26 Dec 2006 5:33 pm Operator: SC
Sample : 70PPM 8270 79-9 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:02:35 2006 Quant Results File: BA061226.RES

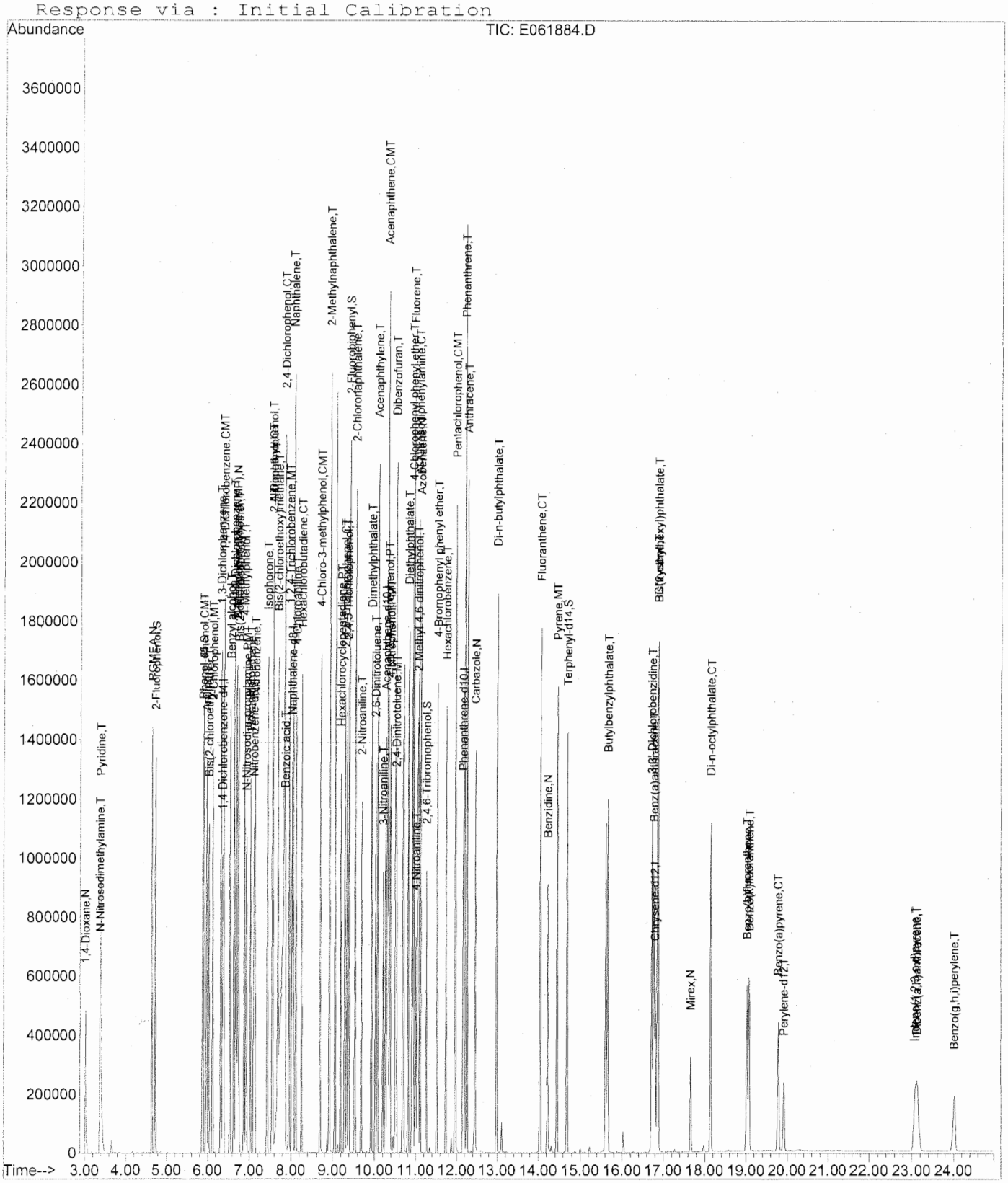
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	245271	71.17	mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	264469	70.92	mg/L	#	97
42)	2-Chloronaphthalene	9.54	162	804489	70.25	mg/L		98
43)	2-Nitroaniline	9.69	65	268110	72.71	mg/L		93
44)	Dimethylphthalate	9.93	163	896148	70.56	mg/L		97
45)	Acenaphthylene	10.08	152	1330516	71.22	mg/L		100
46)	2,6-Dinitrotoluene	10.03	165	217105	70.91	mg/L		93
47)	3-Nitroaniline	10.21	138	203562	76.66	mg/L		87
48)	Acenaphthene	10.31	154	807749	62.75	mg/L		96
49)	2,4-Dinitrophenol	10.34	184	268717	74.84	mg/L	#	59
50)	4-Nitrophenol	10.38	109	224747	74.76	mg/L	#	45
51)	Dibenzofuran	10.51	168	1131688	70.42	mg/L		95
52)	2,4-Dinitrotoluene	10.52	165	278069	70.95	mg/L	#	88
53)	Fluorene	10.94	166	927619	70.68	mg/L		99
54)	Diethylphthalate	10.81	149	898183	69.52	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.91	204	399174	70.62	mg/L		94
56)	4-Nitroaniline	11.00	138	187613	80.00	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	11.05	198	314629	71.17	mg/L	#	79
59)	N-Nitrosodiphenylamine	11.06	169	624164	71.27	mg/L		93
60)	Azobenzene	11.11	77	873105	68.09	mg/L	#	96
62)	4-Bromophenyl phenyl ether	11.52	248	230291	69.42	mg/L		99
63)	Hexachlorobenzene	11.74	284	237113	68.48	mg/L		96
64)	Pentachlorophenol	11.97	266	340528	70.81	mg/L		99
65)	Phenanthrene	12.19	178	1202977	69.65	mg/L		99
66)	Anthracene	12.26	178	1195619	69.50	mg/L		99
67)	Carbazole	12.46	167	775435	93.98	mg/L		98
68)	Di-n-butylphthalate	12.98	149	1363446	68.30	mg/L		99
69)	Fluoranthene	14.05	202	1052820	70.52	mg/L	#	93
71)	Benzidine	14.23	184	547251	67.10	mg/L	#	96
72)	Pyrene	14.45	202	1031949	65.81	mg/L		99
74)	Butylbenzylphthalate	15.66	149	467391	64.32	mg/L		94
75)	3,3'-Dichlorobenzidine	16.72	252	409501	88.38	mg/L	#	97
76)	Benz(a)anthracene	16.76	228	694686	70.25	mg/L		99
77)	Chrysene	16.86	228	635508	70.36	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.87	149	617338	63.81	mg/L		98
79)	Mirex	17.66	272	67540	64.59	mg/L		100
81)	Di-n-octylphthalate	18.15	149	899004	59.80	mg/L		100
82)	Benzo(b)fluoranthene	19.02	252	458870	68.37	mg/L	#	95
83)	Benzo(k)fluoranthene	19.08	252	427628	68.36	mg/L	#	94
84)	Benzo(a)pyrene	19.78	252	367054	71.15	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.07	276	311567	79.88	mg/L	#	53
86)	Dibenz(a,h)anthracene	23.12	278	267090	79.13	mg/L	#	91
87)	Benzo(g,h,i)perylene	24.01	276	255452	79.82	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061884.D Vial: 9
Acq On : 26 Dec 2006 5:33 pm Operator: SC
Sample : 70PPM 8270 79-9 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:02 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061885.D Vial: 10
Acq On : 26 Dec 2006 6:05 pm Operator: SC
Sample : 100PPM 8270 79-10 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:03:35 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	165487	40.00	mg/L	0.00
22) Naphthalene-d8	8.02	136	671716	40.00	mg/L	0.00
37) Acenaphthene-d10	10.27	164	369208	40.00	mg/L	0.00
57) Phenanthrene-d10	12.16	188	561916	40.00	mg/L	0.00
70) Chrysene-d12	16.80	240	310337	40.00	mg/L	0.01
80) Perylene-d12	19.92	264	178531	40.00	mg/L	0.01
System Monitoring Compounds						
6) 2-Fluorophenol	4.74	112	530675	99.41	mg/L	0.01
Spiked Amount 50.000			Recovery =	198.82%		
7) Phenol-d5	5.88	99	691919	100.70	mg/L	0.01
Spiked Amount 50.000			Recovery =	201.40%		
23) Nitrobenzene-d5	7.12	82	574792	99.01	mg/L	0.01
Spiked Amount 50.000			Recovery =	198.02%		
41) 2-Fluorobiphenyl	9.39	172	1163212	100.59	mg/L	0.00
Spiked Amount 50.000			Recovery =	201.18%		
61) 2,4,6-Tribromophenol	11.27	330	146719	103.46	mg/L	0.00
Spiked Amount 50.000			Recovery =	206.92%		
73) Terphenyl-d14	14.69	244	875501	92.58	mg/L	0.00
Spiked Amount 50.000			Recovery =	185.16%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	236025	97.02	mg/L #	60
3) N-Nitrosodimethylamine	3.38	42	310408	99.24	mg/L	90
4) Pyridine	3.40	79	622289	98.43	mg/L #	47
5) PGMEA	4.64	43	1111507	99.51	mg/L #	88
8) Phenol	5.90	94	723729	100.50	mg/L	93
9) Aniline	5.98	93	867703	100.53	mg/L	100
10) Bis(2-chloroethyl)ether	6.03	93	581737	99.09	mg/L	91
11) 2-Chlorophenol	6.13	128	617999	99.91	mg/L	97
12) 1,3-Dichlorobenzene	6.31	146	660528	99.27	mg/L	99
13) 1,4-Dichlorobenzene	6.38	146	669722	99.52	mg/L	99
14) Benzyl alcohol	6.54	108	400782	100.70	mg/L #	77
15) 1,2-Dichlorobenzene	6.63	146	630681	99.29	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.69	99	402831	101.44	mg/L	100
17) 2-Methylphenol	6.68	108	544091	101.10	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.74	45	1077050	97.09	mg/L #	80
19) 4-Methylphenol	6.89	107	697675	101.50	mg/L #	93
20) N-Nitrosodi-n-propylamine	6.93	70	413953	101.05	mg/L #	77
21) Hexachloroethane	7.03	117	254330	101.33	mg/L #	78
24) Nitrobenzene	7.14	77	595689	99.25	mg/L #	79
25) Isophorone	7.43	82	1083362	98.18	mg/L	94
26) 2-Nitrophenol	7.54	139	330852	100.33	mg/L #	86
27) 2,4-Dimethylphenol	7.56	122	547068	98.97	mg/L	83
28) Benzoic acid	7.90	122	1949592	101.18	mg/L #	84
29) Bis(2-chloroethoxy)methane	7.69	93	658159	97.43	mg/L #	89
30) 2,4-Dichlorophenol	7.84	162	465830	98.81	mg/L	98
31) 1,2,4-Trichlorobenzene	7.95	180	490960	99.18	mg/L	99
32) Naphthalene	8.05	128	1724136	98.82	mg/L	99
33) 4-Chloroaniline	8.12	127	682751	98.63	mg/L	96
34) Hexachlorobutadiene	8.25	225	260630	98.80	mg/L	99
35) 4-Chloro-3-methylphenol	8.70	107	490285	99.31	mg/L	92
36) 2-Methylnaphthalene	8.92	142	1179496	98.88	mg/L	99
38) Hexachlorocyclopentadiene	9.20	237	301383	99.78	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061885.D Vial: 10
Acq On : 26 Dec 2006 6:05 pm Operator: SC
Sample : 100PPM 8270 79-10 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:03:35 2006 Quant Results File: BA061226.RES

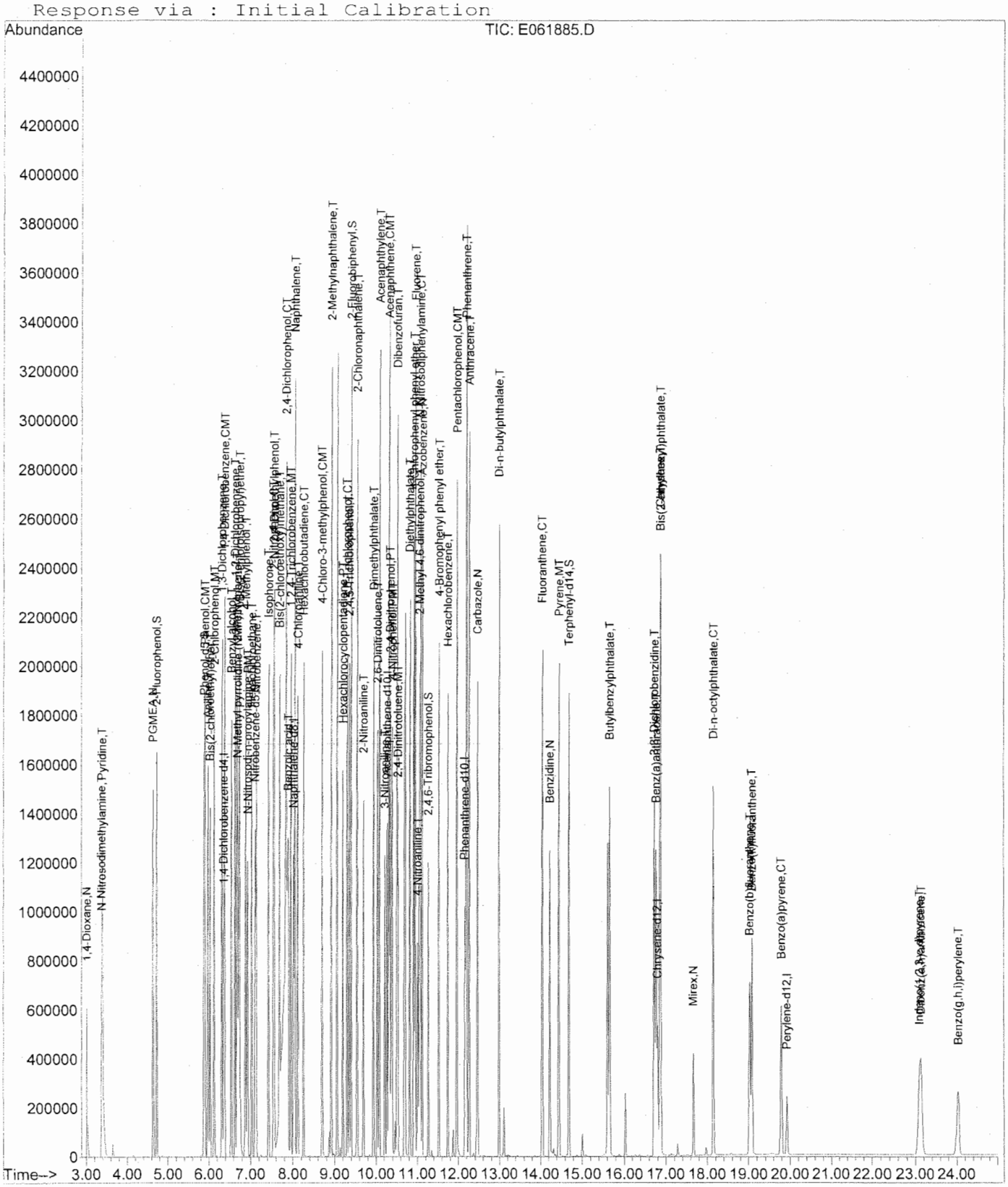
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.30	196	319376	102.22	mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	345765	102.28	mg/L	#	98
42)	2-Chloronaphthalene	9.54	162	1026959	98.93	mg/L		98
43)	2-Nitroaniline	9.70	65	346503	103.65	mg/L		93
44)	Dimethylphthalate	9.94	163	1160061	100.76	mg/L		97
45)	Acenaphthylene	10.08	152	1704728	100.66	mg/L		100
46)	2,6-Dinitrotoluene	10.03	165	282443	101.77	mg/L		93
47)	3-Nitroaniline	10.21	138	266125	110.55	mg/L		87
48)	Acenaphthene	10.31	154	1062954	91.10	mg/L		94
49)	2,4-Dinitrophenol	10.34	184	353330	108.54	mg/L	#	86
50)	4-Nitrophenol	10.39	109	289771	106.32	mg/L	#	45
51)	Dibenzofuran	10.51	168	1452933	99.74	mg/L		95
52)	2,4-Dinitrotoluene	10.54	165	361853	101.84	mg/L	#	87
53)	Fluorene	10.95	166	1212276	101.89	mg/L		99
54)	Diethylphthalate	10.81	149	1171118	99.99	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.91	204	516358	100.77	mg/L		94
56)	4-Nitroaniline	11.01	138	244574	115.03	mg/L	#	86
58)	2-Methyl-4,6-dinitrophenol	11.05	198	406377	101.67	mg/L	#	57
59)	N-Nitrosodiphenylamine	11.07	169	837997	105.84	mg/L		93
60)	Azobenzene	11.12	77	1146107	98.86	mg/L	#	96
62)	4-Bromophenyl phenyl ether	11.52	248	301973	100.69	mg/L		99
63)	Hexachlorobenzene	11.74	284	314663	100.52	mg/L		95
64)	Pentachlorophenol	11.97	266	451713	103.89	mg/L		98
65)	Phenanthrene	12.20	178	1566533	100.33	mg/L		99
66)	Anthracene	12.26	178	1565563	100.66	mg/L		100
67)	Carbazole	12.47	167	1196277	160.37	mg/L		99
68)	Di-n-butylphthalate	12.99	149	1786508	98.99	mg/L		98
69)	Fluoranthene	14.05	202	1378775	102.15	mg/L	#	93
71)	Benzidine	14.23	184	760629	100.77	mg/L	#	97
72)	Pyrene	14.45	202	1327467	91.48	mg/L		100
74)	Butylbenzylphthalate	15.66	149	608819	90.53	mg/L		96
75)	3,3'-Dichlorobenzidine	16.72	252	556137	129.70	mg/L	#	96
76)	Benz(a)anthracene	16.77	228	919735	100.50	mg/L		99
77)	Chrysene	16.86	228	843554	100.92	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.88	149	823207	91.94	mg/L		97
79)	Mirex	17.67	272	88570	91.52	mg/L		99
81)	Di-n-octylphthalate	18.15	149	1215079	79.89	mg/L		100
82)	Benzo(b)fluoranthene	19.03	252	654267	96.37	mg/L	#	94
83)	Benzo(k)fluoranthene	19.08	252	610855	96.53	mg/L	#	95
84)	Benzo(a)pyrene	19.79	252	535265	102.56	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.09	276	488879	123.90	mg/L	#	53
86)	Dibenz(a,h)anthracene	23.14	278	419877	122.97	mg/L	#	92
87)	Benzo(g,h,i)perylene	24.03	276	404725	125.01	mg/L	#	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061885.D Vial: 10
Acq On : 26 Dec 2006 6:05 pm Operator: SC
Sample : 100PPM 8270 79-10 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:03 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 08:55:57 2006
Response via : Initial Calibration



Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/26/2006
Date Analyzed: 12/26/2006

Second Source Calibration Verification
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL ID: CAL1241
Units: mg/L

File ID: C:\MSDCHEM\1\DATA\E061226\E061886.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	50	49	0.296	0.292	-1	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	50	50	1.54	1.55	1	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	50	50	1.61	1.61	0	NA	± 30 %	AverageRF
‡ 1,4-Dichlorobenzene	50	50	1.65	1.64	0	NA	± 30 %	AverageRF
1,4-Dioxane	50	48	0.586	0.558	-5	NA	± 30 %	AverageRF
2,4,5-Trichlorophenol	50	52	0.357	0.368	3	NA	± 30 %	AverageRF
‡ 2,4,6-Trichlorophenol	50	51	0.329	0.336	2	NA	± 30 %	AverageRF
‡ 2,4-Dichlorophenol	50	51	0.274	0.279	2	NA	± 30 %	AverageRF
2,4-Dimethylphenol	50	49	0.324	0.318	-2	NA	± 30 %	AverageRF
† 2,4-Dinitrophenol	100	110	0.173	0.189	10	NA	± 30 %	AverageRF
2,4-Dinitrotoluene	50	52	0.369	0.387	5	NA	± 30 %	AverageRF
2,6-Dinitrotoluene	50	54	0.289	0.313	8	NA	± 30 %	AverageRF
2-Chloronaphthalene	50	50	1.13	1.12	0	NA	± 30 %	AverageRF
2-Chlorophenol	50	50	1.47	1.46	-1	NA	± 30 %	AverageRF
2-Methyl-4,6-dinitrophenol	100	110	0.133	0.153	15	NA	± 30 %	AverageRF
2-Methylnaphthalene	50	50	0.707	0.703	-1	NA	± 30 %	AverageRF
2-Methylphenol	50	51	1.29	1.32	2	NA	± 30 %	AverageRF
2-Nitroaniline	50	53	0.347	0.369	7	NA	± 30 %	AverageRF
‡ 2-Nitrophenol	50	46	0.200	0.185	-8	NA	± 30 %	AverageRF
3,3'-Dichlorobenzidine	100	100	0.294	0.313	NA	5	± 30 %	Quadratic
3-Nitroaniline	50	56	0.238	0.291	NA	12	± 30 %	Quadratic
4-Bromophenyl Phenyl Ether	50	51	0.210	0.212	1	NA	± 30 %	AverageRF
4-Chloro-3-methylphenol	50	51	0.280	0.288	3	NA	± 30 %	AverageRF
4-Chloroaniline	50	56	0.366	0.413	13	NA	± 30 %	AverageRF
4-Chlorophenyl Phenyl Ether	50	51	0.555	0.562	1	NA	± 30 %	AverageRF
4-Methylphenol	50	52	1.64	1.69	3	NA	± 30 %	AverageRF
4-Nitroaniline	50	57	0.210	0.272	NA	14	± 30 %	Quadratic
† 4-Nitrophenol	100	110	0.142	0.157	11	NA	± 30 %	AverageRF
‡ Acenaphthene	50	53	1.21	1.29	7	NA	± 30 %	AverageRF
Acenaphthylene	50	47	1.83	1.71	-7	NA	± 30 %	AverageRF
Aniline	50	50	2.01	2.03	1	NA	± 30 %	AverageRF
Anthracene	50	51	1.10	1.11	1	NA	± 30 %	AverageRF
Benz(a)anthracene	50	52	1.16	1.21	4	NA	± 30 %	AverageRF
‡ Benzo(a)pyrene	50	52	1.14	1.19	5	NA	± 30 %	AverageRF
Benzo(b)fluoranthene	50	49	1.45	1.42	-2	NA	± 30 %	AverageRF
Benzo(g,h,i)perylene	50	53	0.762	0.801	5	NA	± 30 %	AverageRF
Benzo(k)fluoranthene	50	49	1.41	1.38	-2	NA	± 30 %	AverageRF
Benzoic acid	50	49	0.213	0.210	-1	NA	± 30 %	AverageRF
Benzyl alcohol	50	50	0.940	0.944	0	NA	± 30 %	AverageRF
bis(2-Chloroethoxy)methane	50	46	0.400	0.368	-8	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/26/2006
Date Analyzed: 12/26/2006

Second Source Calibration Verification
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL ID: CAL1241
Units: mg/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Bis(2-chloroethyl) Ether	50	50	1.43	1.42	-1	NA	± 30 %	AverageRF
Bis(2-Chloroisopropyl)ether	50	42	2.73	2.28	-16	NA	± 30 %	AverageRF
Bis(2-ethylhexyl) Phthalate	50	53	1.01	1.07	6	NA	± 30 %	AverageRF
Butyl Benzyl Phthalate	50	51	0.778	0.801	3	NA	± 30 %	AverageRF
Chrysene	50	50	1.09	1.10	1	NA	± 30 %	AverageRF
Di-n-butyl Phthalate	50	53	1.23	1.30	6	NA	± 30 %	AverageRF
‡ Di-n-octyl Phthalate	50	53	2.58	2.74	6	NA	± 30 %	AverageRF
Dibenz(a,h)anthracene	50	51	0.795	0.811	2	NA	± 30 %	AverageRF
Dibenzofuran	50	49	1.58	1.56	-1	NA	± 30 %	AverageRF
Diethyl Phthalate	50	51	1.25	1.27	2	NA	± 30 %	AverageRF
Dimethyl Phthalate	50	51	1.24	1.26	2	NA	± 30 %	AverageRF
‡ Fluoranthene	50	54	0.954	1.02	7	NA	± 30 %	AverageRF
Fluorene	50	50	1.29	1.30	1	NA	± 30 %	AverageRF
Hexachlorobenzene	50	50	0.221	0.219	-1	NA	± 30 %	AverageRF
‡ Hexachlorobutadiene	50	51	0.155	0.158	2	NA	± 30 %	AverageRF
† Hexachlorocyclopentadiene	50	42	0.318	0.270	-15	NA	± 30 %	AverageRF
Hexachloroethane	50	50	0.606	0.608	0	NA	± 30 %	AverageRF
Indeno(1,2,3-cd)pyrene	50	55	0.924	1.01	9	NA	± 30 %	AverageRF
Isophorone	50	53	0.637	0.678	6	NA	± 30 %	AverageRF
† N-Nitrosodi-n-propylamine	50	52	0.967	1.00	4	NA	± 30 %	AverageRF
N-Nitrosodimethylamine	50	51	0.762	0.780	2	NA	± 30 %	AverageRF
‡ N-Nitrosodiphenylamine	50	45	0.571	0.519	-9	NA	± 30 %	AverageRF
Naphthalene	50	50	1.05	1.04	0	NA	± 30 %	AverageRF
Nitrobenzene	50	51	0.355	0.359	1	NA	± 30 %	AverageRF
‡ Pentachlorophenol	100	110	0.147	0.157	7	NA	± 30 %	AverageRF
Phenanthrene	50	49	1.12	1.09	-3	NA	± 30 %	AverageRF
‡ Phenol	50	50	1.74	1.74	0	NA	± 30 %	AverageRF
Pyrene	50	48	1.73	1.67	-3	NA	± 30 %	AverageRF
Pyridine	50	48	1.52	1.47	-3	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2	N	1,4-Dioxane	0.586	0.558	4.8	91	0.00
3	T	N-Nitrosodimethylamine	0.762	0.780	-2.4	99	0.00
4	T	Pyridine	1.520	1.474	3.0	92	0.00
5	N	PGMEA	2.753	2.666	3.2	95	0.00
6	S	2-Fluorophenol	1.274	1.227	3.7	91	0.00
7	S	Phenol-d5	1.651	1.605	2.8	93	0.00
8	CMT	Phenol	1.739	1.735	0.2#	96	0.00
9	T	Aniline	2.014	2.030	-0.8	93	0.00
10	T	Bis(2-chloroethyl)ether	1.431	1.417	1.0	96	0.00
11	MT	2-Chlorophenol	1.474	1.459	1.0	94	0.00
12	T	1,3-Dichlorobenzene	1.613	1.608	0.3	96	0.00
13	CMT	1,4-Dichlorobenzene	1.647	1.640	0.4#	97	0.00
14	T	Benzyl alcohol	0.940	0.944	-0.4	94	0.00
15	T	1,2-Dichlorobenzene	1.537	1.545	-0.5	97	0.00
16	N	N-Methyl pyrrolidine (NMP)	0.935	0.950	-1.6	95	-0.03
17	T	2-Methylphenol	1.293	1.316	-1.8	97	0.00
18	T	Bis(2-chloroisopropyl)ether	2.729	2.281	16.4	82	0.00
19	T	4-Methylphenol	1.638	1.691	-3.2	98	0.00
20	PMT	N-Nitrosodi-n-propylamine	0.967	1.001	-3.5	97	0.00
21	T	Hexachloroethane	0.606	0.608	-0.3	96	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	97	0.00
23	S	Nitrobenzene-d5	0.338	0.339	-0.3	95	0.00
24	T	Nitrobenzene	0.355	0.359	-1.1	98	0.00
25	T	Isophorone	0.637	0.678	-6.4	100	0.00
26	CT	2-Nitrophenol	0.200	0.185	7.5#	92	0.00
27	T	2,4-Dimethylphenol	0.324	0.318	1.9	94	0.00
28	T	Benzoic acid	0.213	0.042#	80.3#	18#	-0.13
29	T	Bis(2-chloroethoxy)methane	0.400	0.368	8.0	89	0.00
30	CT	2,4-Dichlorophenol	0.274	0.279	-1.8#	97	0.00
31	MT	1,2,4-Trichlorobenzene	0.296	0.292	1.4	96	0.00
32	T	Naphthalene	1.048	1.043	0.5	98	0.00
33	T	4-Chloroaniline	0.366	0.413	-12.8	97	0.00
34	CT	Hexachlorobutadiene	0.155	0.158	-1.9#	98	0.00
35	CMT	4-Chloro-3-methylphenol	0.280	0.288	-2.9#	95	0.00
36	T	2-Methylnaphthalene	0.707	0.703	0.6	96	0.00
37	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
38	PT	Hexachlorocyclopentadiene	0.318	0.270	15.1	80	0.00
39	CT	2,4,6-Trichlorophenol	0.329	0.336	-2.1#	96	0.00
40	T	2,4,5-Trichlorophenol	0.357	0.368	-3.1	97	0.00
41	S	2-Fluorobiphenyl	1.261	1.232	2.3	95	0.00
42	T	2-Chloronaphthalene	1.127	1.123	0.4	97	0.00
43	T	2-Nitroaniline	0.347	0.369	-6.3	99	0.00
44	T	Dimethylphthalate	1.237	1.260	-1.9	98	0.00
45	T	Acenaphthylene	1.833	1.707	6.9	90	0.00
46	T	2,6-Dinitrotoluene	0.289	0.313	-8.3	101	0.00
47	T	3-Nitroaniline	0.238	0.291	-22.3#	108	0.00
48	CMT	Acenaphthene	1.208	1.290	-6.8#	99	0.00
49	PT	2,4-Dinitrophenol	0.173	0.189	-9.2	104	0.00
50	PMT	4-Nitrophenol	0.142	0.157	-10.6	103	0.00
51	T	Dibenzofuran	1.579	1.561	1.1	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	MT	2,4-Dinitrotoluene	0.369	0.387	-4.9	97	0.00
53	T	Fluorene	1.285	1.296	-0.9	97	0.00
54	T	Diethylphthalate	1.246	1.272	-2.1	97	0.00
55	T	4-Chlorophenyl phenyl ether	0.555	0.562	-1.3	98	0.00
56	T	4-Nitroaniline	0.210	0.272	-29.5#	114	0.00
57	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
58	T	2-Methyl-4,6-dinitrophenol	0.133	0.153	-15.0	108	0.00
59	CT	N-Nitrosodiphenylamine	0.571	0.519	9.1#	92	0.00
60	N	Azobenzene	0.818	0.813	0.6	98	0.00
61	S	2,4,6-Tribromophenol	0.096	0.095	1.0	94	0.00
62	T	4-Bromophenyl phenyl ether	0.210	0.212	-1.0	99	0.00
63	T	Hexachlorobenzene	0.221	0.219	0.9	98	0.00
64	CMT	Pentachlorophenol	0.147	0.157	-6.8#	101	0.00
65	T	Phenanthrene	1.120	1.086	3.0	98	0.00
66	T	Anthracene	1.095	1.108	-1.2	100	0.00
67	N	Carbazole	0.702	0.618	12.0	116	0.00
68	T	Di-n-butylphthalate	1.226	1.300	-6.0	101	0.00
69	CT	Fluoranthene	0.954	1.022	-7.1#	106	0.00
70	I	Chrysene-d12	1.000	1.000	0.0	122	0.01
71	N	Benzidine	0.506	0.437	13.6	110	0.00
72	MT	Pyrene	1.729	1.672	3.3	109	0.00
73	S	Terphenyl-d14	1.118	1.086	2.9	109	0.00
74	T	Butylbenzylphthalate	0.778	0.801	-3.0	113	0.00
75	T	3,3'-Dichlorobenzidine	0.294	0.313	-6.5	138	0.00
76	T	Benz(a)anthracene	1.162	1.209	-4.0	125	0.00
77	T	Chrysene	1.091	1.100	-0.8	124	0.00
78	T	Bis(2-ethylhexyl)phthalate	1.010	1.068	-5.7	113	0.00
79	N	Mirex	0.217	0.218	-0.5	106	0.00
80	I	Perylene-d12	1.000	1.000	0.0	150#	0.01
81	CT	Di-n-octylphthalate	2.579	2.739	-6.2#	121	0.00
82	T	Benzo(b)fluoranthene	1.451	1.421	2.1	140	0.01
83	T	Benzo(k)fluoranthene	1.406	1.380	1.8	146	0.00
84	CT	Benzo(a)pyrene	1.143	1.195	-4.5#	153#	0.00
85	T	Indeno(1,2,3-c,d)pyrene	0.924	1.010	-9.3	172#	0.01
86	T	Dibenz(a,h)anthracene	0.795	0.811	-2.0	159#	0.00
87	T	Benzo(g,h,i)perylene	0.762	0.801	-5.1	166#	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 13

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:53:42 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	180197	40.00	mg/L		0.00
22) Naphthalene-d8	8.01	136	728348	40.00	mg/L		0.00
37) Acenaphthene-d10	10.26	164	402334	40.00	mg/L		0.00
57) Phenanthrene-d10	12.15	188	621200	40.00	mg/L		0.00
70) Chrysene-d12	16.80	240	371626	40.00	mg/L		0.01
80) Perylene-d12	19.92	264	214998	40.00	mg/L		0.01
System Monitoring Compounds							
6) 2-Fluorophenol	4.73	112	276424	48.18	mg/L		0.00
Spiked Amount 50.000			Recovery = 96.36%				
7) Phenol-d5	5.87	99	361574	48.63	mg/L		0.00
Spiked Amount 50.000			Recovery = 97.26%				
23) Nitrobenzene-d5	7.11	82	308365	50.11	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.22%				
41) 2-Fluorobiphenyl	9.39	172	619355	48.82	mg/L		0.00
Spiked Amount 50.000			Recovery = 97.64%				
61) 2,4,6-Tribromophenol	11.26	330	74112	49.74	mg/L		0.00
Spiked Amount 50.000			Recovery = 99.48%				
73) Terphenyl-d14	14.69	244	504285	48.55	mg/L		0.00
Spiked Amount 50.000			Recovery = 97.10%				
Target Compounds							Qvalue
2) 1,4-Dioxane	3.02	88	125675	47.62	mg/L	#	59
3) N-Nitrosodimethylamine	3.37	42	175675	51.20	mg/L		89
4) Pyridine	3.39	79	332031	48.48	mg/L	#	46
5) PGMEA	4.64	43	600554	48.42	mg/L	#	87
8) Phenol	5.89	94	390911	49.90	mg/L		93
9) Aniline	5.97	93	457182	50.40	mg/L		99
10) Bis(2-chloroethyl)ether	6.03	93	319124	49.51	mg/L		91
11) 2-Chlorophenol	6.12	128	328701	49.50	mg/L		98
12) 1,3-Dichlorobenzene	6.31	146	362129	49.83	mg/L		99
13) 1,4-Dichlorobenzene	6.38	146	369441	49.78	mg/L		100
14) Benzyl alcohol	6.53	108	212727	50.24	mg/L	#	77
15) 1,2-Dichlorobenzene	6.62	146	348099	50.28	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.65	99	213982m	50.81	mg/L		
17) 2-Methylphenol	6.69	108	296529	50.89	mg/L		99
18) Bis(2-chloroisopropyl)ethe	6.73	45	513709	41.79	mg/L	#	85
19) 4-Methylphenol	6.86	107	380836	51.62	mg/L	#	92
20) N-Nitrosodi-n-propylamine	6.92	70	225458	51.76	mg/L	#	76
21) Hexachloroethane	7.03	117	136884	50.14	mg/L	#	78
24) Nitrobenzene	7.13	77	327046	50.57	mg/L	#	78
25) Isophorone	7.42	82	617087	53.21	mg/L		94
26) 2-Nitrophenol	7.54	139	168059	46.14	mg/L	#	85
27) 2,4-Dimethylphenol	7.55	122	289242	49.03	mg/L	#	83
28) Benzoic acid	7.69	122	191562	49.36	mg/L	#	81
29) Bis(2-chloroethoxy)methane	7.68	93	335457	46.04	mg/L	#	87
30) 2,4-Dichlorophenol	7.83	162	254370	50.90	mg/L		97
31) 1,2,4-Trichlorobenzene	7.95	180	265530	49.33	mg/L		99
32) Naphthalene	8.04	128	949809	49.78	mg/L		100
33) 4-Chloroaniline	8.11	127	375569	56.31	mg/L		96
34) Hexachlorobutadiene	8.25	225	144013	50.87	mg/L		99
35) 4-Chloro-3-methylphenol	8.69	107	262431	51.40	mg/L		92
36) 2-Methylnaphthalene	8.92	142	639830	49.68	mg/L		99
38) Hexachlorocyclopentadiene	9.19	237	135974	42.48	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:53:42 2006 Quant Results File: BA061226.RES

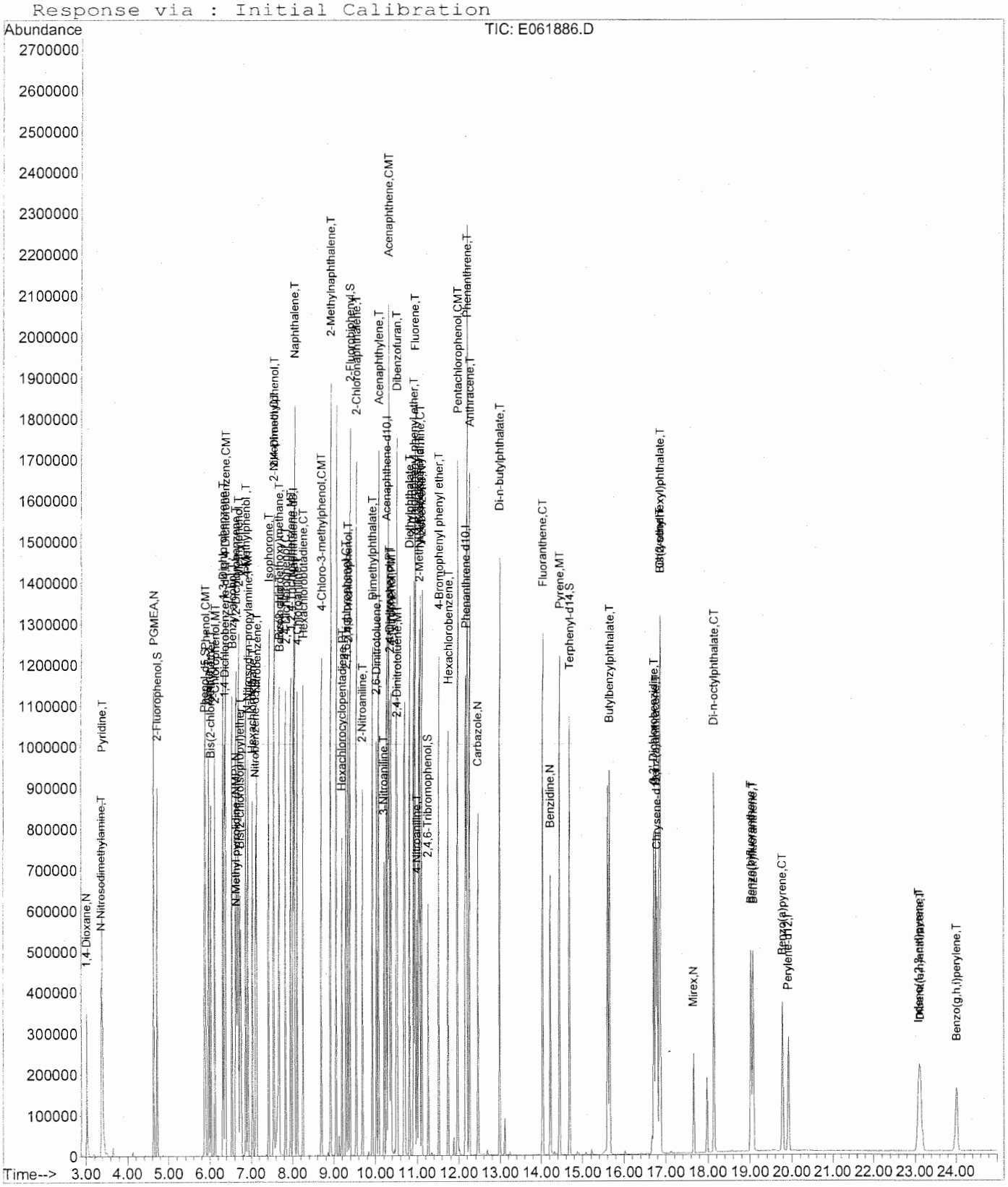
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	168783	50.93	mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	185233	51.58	mg/L		97
42)	2-Chloronaphthalene	9.54	162	564990	49.82	mg/L		98
43)	2-Nitroaniline	9.69	65	185706	53.28	mg/L		93
44)	Dimethylphthalate	9.93	163	633622	50.94	mg/L		96
45)	Acenaphthylene	10.08	152	858427	46.56	mg/L		100
46)	2,6-Dinitrotoluene	10.02	165	157615	54.20	mg/L		93
47)	3-Nitroaniline	10.21	138	146236	56.14	mg/L		87
48)	Acenaphthene	10.31	154	648627	53.36	mg/L		85
49)	2,4-Dinitrophenol	10.33	184	190419	109.68	mg/L	#	1
50)	4-Nitrophenol	10.37	109	158307	111.09	mg/L	#	42
51)	Dibenzofuran	10.50	168	784969	49.41	mg/L		95
52)	2,4-Dinitrotoluene	10.52	165	194479	52.34	mg/L	#	88
53)	Fluorene	10.94	166	651741	50.41	mg/L		99
54)	Diethylphthalate	10.81	149	639610	51.05	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.91	204	282500	50.60	mg/L		95
56)	4-Nitroaniline	10.99	138	136816	57.07	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	11.04	198	238123	114.92	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.06	169	402668	45.40	mg/L		91
60)	Azobenzene	11.11	77	630975	49.69	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.52	248	164779	50.50	mg/L		99
63)	Hexachlorobenzene	11.74	284	170196	49.55	mg/L		96
64)	Pentachlorophenol	11.96	266	243361	106.90	mg/L		98
65)	Phenanthrene	12.19	178	843371	48.50	mg/L		100
66)	Anthracene	12.25	178	860692	50.59	mg/L		99
67)	Carbazole	12.46	167	479910	53.15	mg/L		99
68)	Di-n-butylphthalate	12.98	149	1009143	53.02	mg/L		99
69)	Fluoranthene	14.04	202	793371	53.55	mg/L	#	94
71)	Benzidine	14.23	184	406231	86.41	mg/L	#	97
72)	Pyrene	14.45	202	776811	48.37	mg/L		100
74)	Butylbenzylphthalate	15.66	149	372003	51.47	mg/L		94
75)	3,3'-Dichlorobenzidine	16.72	252	290474	104.61	mg/L	#	98
76)	Benz(a)anthracene	16.76	228	561596	52.02	mg/L		99
77)	Chrysene	16.85	228	510884	50.42	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.87	149	496299	52.91	mg/L		98
79)	Mirex	17.66	272	50528	25.03	mg/L		100
81)	Di-n-octylphthalate	18.14	149	736000	53.09	mg/L		100
82)	Benzo(b)fluoranthene	19.02	252	381989	48.99	mg/L	#	95
83)	Benzo(k)fluoranthene	19.08	252	370990	49.09	mg/L	#	94
84)	Benzo(a)pyrene	19.78	252	321083	52.27	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.08	276	271480	54.68	mg/L	#	55
86)	Dibenz(a,h)anthracene	23.12	278	217917	50.97	mg/L	#	92
87)	Benzo(g,h,i)perylene	24.01	276	215195	52.55	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:54 2006 Quant Results File: BA061226.RES

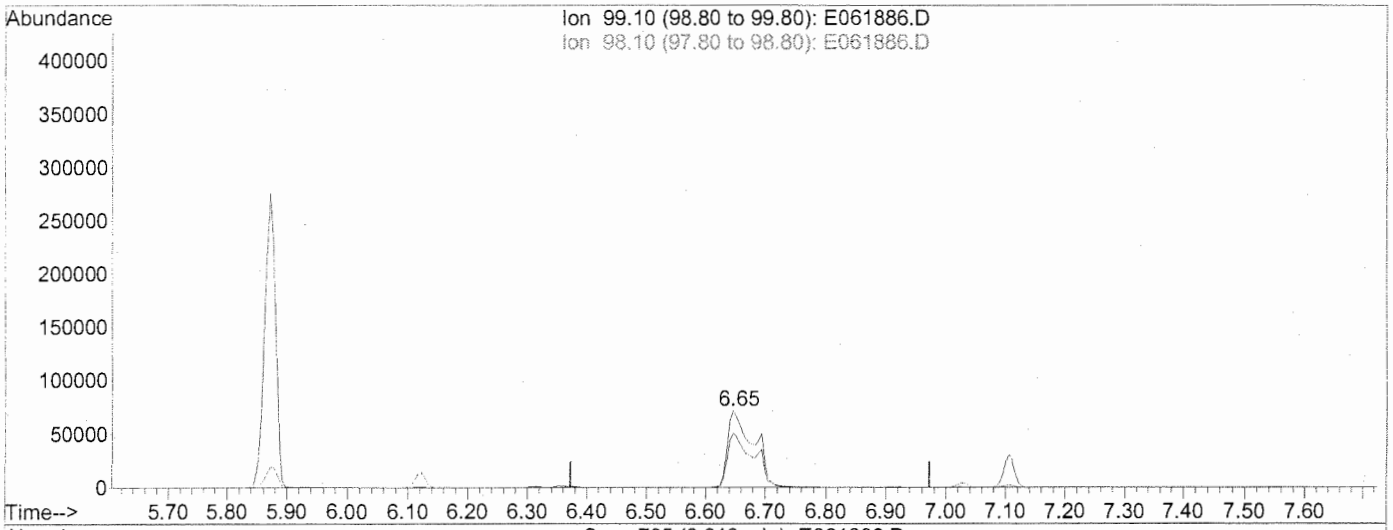
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

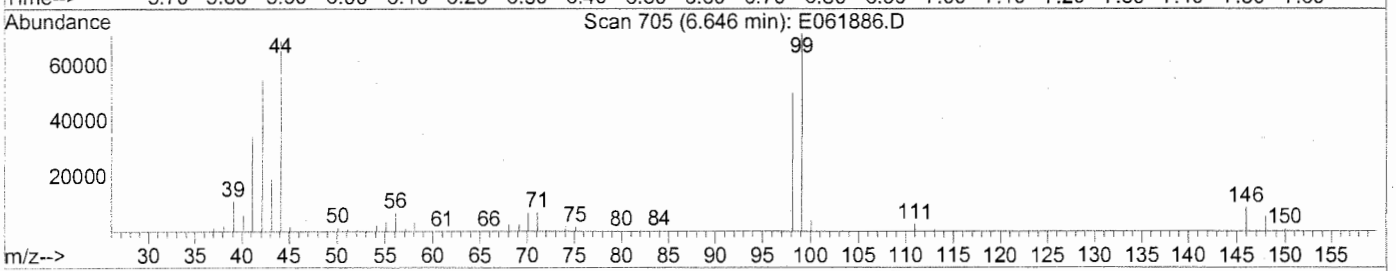


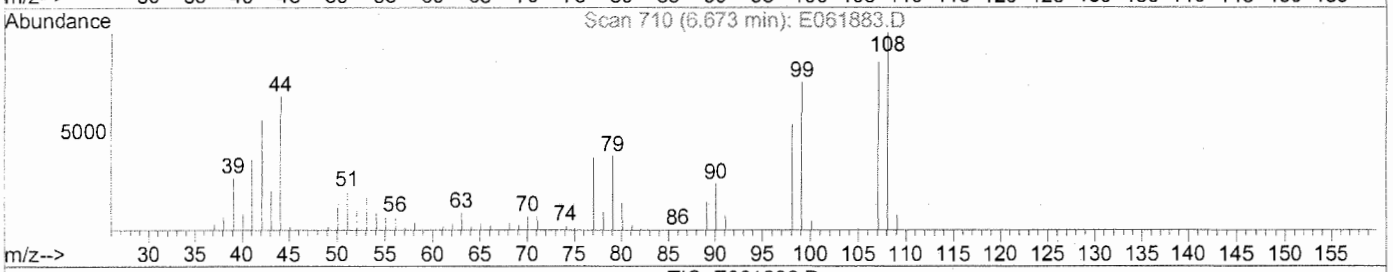
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:54 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061886.D

(16) N-Methyl pyrrolidine (NMP) (N)

6.65min 50.81mg/L m

response 213982

Ion	Exp%	Act%
99.10	100	100
98.10	70.50	55.62#
0.00	0.00	0.00
0.00	0.00	0.00

sp 1.8

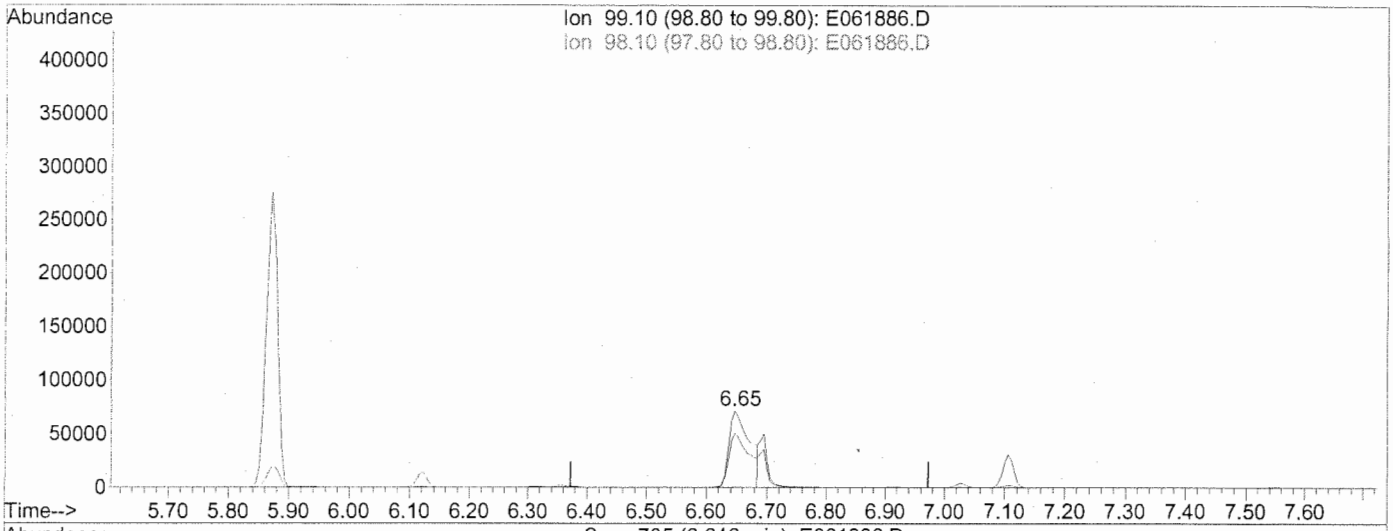
12/27/06

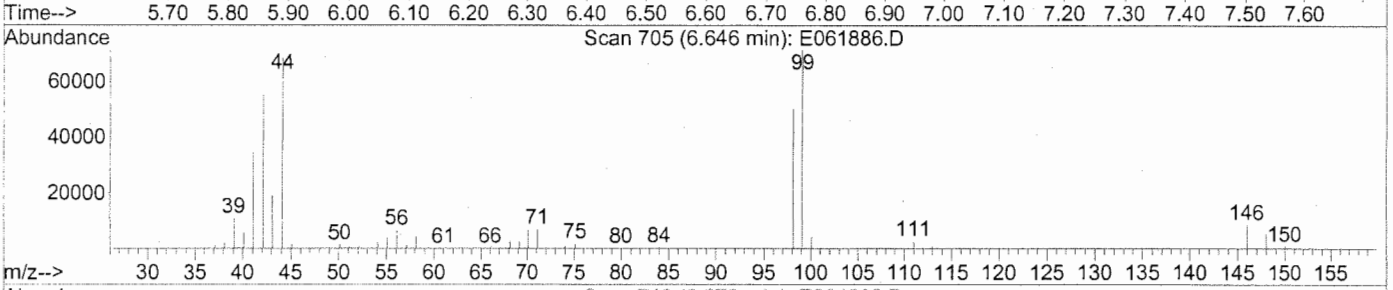
1/8/07

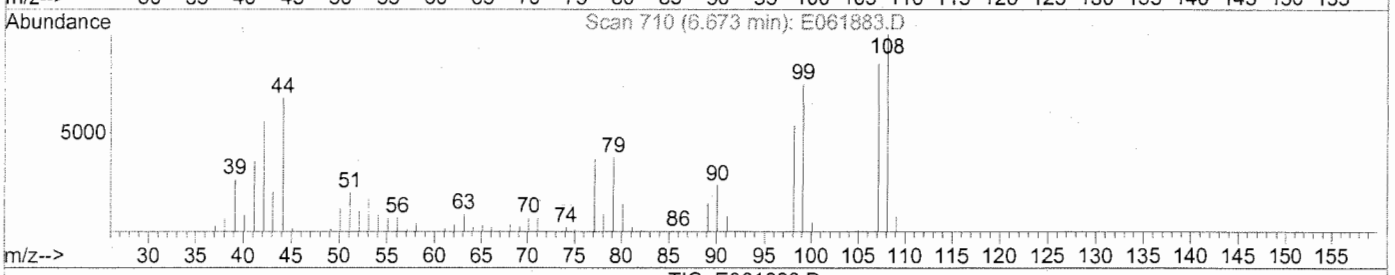
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:53 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061886.D

(16) N-Methyl pyrrolidine (NMP) (N)

6.65min 40.06mg/L

response 168742

Ion	Exp%	Act%
99.10	100	100
98.10	70.50	70.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:53:42 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	180197	40.00	mg/L		0.00
22) Naphthalene-d8	8.01	136	728348	40.00	mg/L		0.00
37) Acenaphthene-d10	10.26	164	402334	40.00	mg/L		0.00
57) Phenanthrene-d10	12.15	188	621200	40.00	mg/L		0.00
70) Chrysene-d12	16.80	240	371626	40.00	mg/L		0.01
80) Perylene-d12	19.92	264	214998	40.00	mg/L		0.01
System Monitoring Compounds							
6) 2-Fluorophenol	4.73	112	276424	48.18	mg/L		0.00
Spiked Amount 50.000			Recovery = 96.36%				
7) Phenol-d5	5.87	99	361574	48.63	mg/L		0.00
Spiked Amount 50.000			Recovery = 97.26%				
23) Nitrobenzene-d5	7.11	82	308365	50.11	mg/L		0.00
Spiked Amount 50.000			Recovery = 100.22%				
41) 2-Fluorobiphenyl	9.39	172	619355	48.82	mg/L		0.00
Spiked Amount 50.000			Recovery = 97.64%				
61) 2,4,6-Tribromophenol	11.26	330	74112	49.74	mg/L		0.00
Spiked Amount 50.000			Recovery = 99.48%				
73) Terphenyl-d14	14.69	244	504285	48.55	mg/L		0.00
Spiked Amount 50.000			Recovery = 97.10%				
Target Compounds							Qvalue
2) 1,4-Dioxane	3.02	88	125675	47.62	mg/L	#	59
3) N-Nitrosodimethylamine	3.37	42	175675	51.20	mg/L		89
4) Pyridine	3.39	79	332031	48.48	mg/L	#	46
5) PGMEA	4.64	43	600554	48.42	mg/L	#	87
8) Phenol	5.89	94	390911	49.90	mg/L		93
9) Aniline	5.97	93	457182	50.40	mg/L		99
10) Bis(2-chloroethyl)ether	6.03	93	319124	49.51	mg/L		91
11) 2-Chlorophenol	6.12	128	328701	49.50	mg/L		98
12) 1,3-Dichlorobenzene	6.31	146	362129	49.83	mg/L		99
13) 1,4-Dichlorobenzene	6.38	146	369441	49.78	mg/L		100
14) Benzyl alcohol	6.53	108	212727	50.24	mg/L	#	77
15) 1,2-Dichlorobenzene	6.62	146	348099	50.28	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.65	99	168742	40.06	mg/L		100
17) 2-Methylphenol	6.69	108	296529	50.89	mg/L		99
18) Bis(2-chloroisopropyl)ethe	6.73	45	513709	41.79	mg/L	#	85
19) 4-Methylphenol	6.86	107	380836	51.62	mg/L	#	92
20) N-Nitrosodi-n-propylamine	6.92	70	225458	51.76	mg/L	#	76
21) Hexachloroethane	7.03	117	136884	50.14	mg/L	#	78
24) Nitrobenzene	7.13	77	327046	50.57	mg/L	#	78
25) Isophorone	7.42	82	617087	53.21	mg/L		94
26) 2-Nitrophenol	7.54	139	168059	46.14	mg/L	#	85
27) 2,4-Dimethylphenol	7.55	122	289242	49.03	mg/L	#	83
28) Benzoic acid	7.69	122	191562	49.36	mg/L	#	81
29) Bis(2-chloroethoxy)methane	7.68	93	335457	46.04	mg/L	#	87
30) 2,4-Dichlorophenol	7.83	162	254370	50.90	mg/L		97
31) 1,2,4-Trichlorobenzene	7.95	180	265530	49.33	mg/L		99
32) Naphthalene	8.04	128	949809	49.78	mg/L		100
33) 4-Chloroaniline	8.11	127	375569	56.31	mg/L		96
34) Hexachlorobutadiene	8.25	225	144013	50.87	mg/L		99
35) 4-Chloro-3-methylphenol	8.69	107	262431	51.40	mg/L		92
36) 2-Methylnaphthalene	8.92	142	639830	49.68	mg/L		99
38) Hexachlorocyclopentadiene	9.19	237	135974	42.48	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:53:42 2006 Quant Results File: BA061226.RES

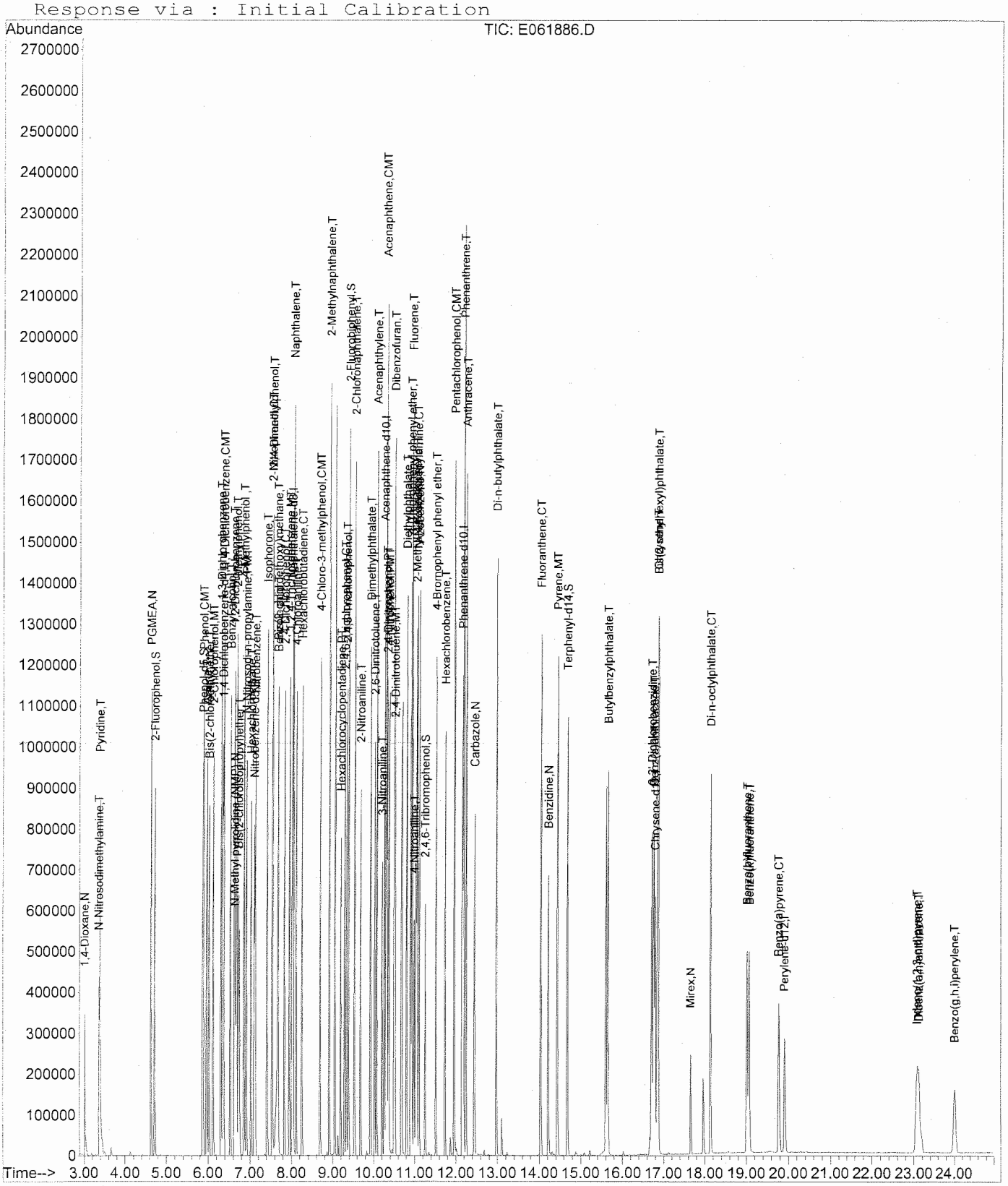
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.29	196	168783	50.93	mg/L		99
40)	2,4,5-Trichlorophenol	9.34	196	185233	51.58	mg/L		97
42)	2-Chloronaphthalene	9.54	162	564990	49.82	mg/L		98
43)	2-Nitroaniline	9.69	65	185706	53.28	mg/L		93
44)	Dimethylphthalate	9.93	163	633622	50.94	mg/L		96
45)	Acenaphthylene	10.08	152	858427	46.56	mg/L		100
46)	2,6-Dinitrotoluene	10.02	165	157615	54.20	mg/L		93
47)	3-Nitroaniline	10.21	138	146236	56.14	mg/L		87
48)	Acenaphthene	10.31	154	648627	53.36	mg/L		85
49)	2,4-Dinitrophenol	10.33	184	190419	109.68	mg/L	#	1
50)	4-Nitrophenol	10.37	109	158307	111.09	mg/L	#	42
51)	Dibenzofuran	10.50	168	784969	49.41	mg/L		95
52)	2,4-Dinitrotoluene	10.52	165	194479	52.34	mg/L	#	88
53)	Fluorene	10.94	166	651741	50.41	mg/L		99
54)	Diethylphthalate	10.81	149	639610	51.05	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.91	204	282500	50.60	mg/L		95
56)	4-Nitroaniline	10.99	138	136816	57.07	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	11.04	198	238123	114.92	mg/L	#	84
59)	N-Nitrosodiphenylamine	11.06	169	402668	45.40	mg/L		91
60)	Azobenzene	11.11	77	630975	49.69	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.52	248	164779	50.50	mg/L		99
63)	Hexachlorobenzene	11.74	284	170196	49.55	mg/L		96
64)	Pentachlorophenol	11.96	266	243361	106.90	mg/L		98
65)	Phenanthrene	12.19	178	843371	48.50	mg/L		100
66)	Anthracene	12.25	178	860692	50.59	mg/L		99
67)	Carbazole	12.46	167	479910	53.15	mg/L		99
68)	Di-n-butylphthalate	12.98	149	1009143	53.02	mg/L		99
69)	Fluoranthene	14.04	202	793371	53.55	mg/L	#	94
71)	Benzidine	14.23	184	406231	86.41	mg/L	#	97
72)	Pyrene	14.45	202	776811	48.37	mg/L		100
74)	Butylbenzylphthalate	15.66	149	372003	51.47	mg/L		94
75)	3,3'-Dichlorobenzidine	16.72	252	290474	104.61	mg/L	#	98
76)	Benz(a)anthracene	16.76	228	561596	52.02	mg/L		99
77)	Chrysene	16.85	228	510884	50.42	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.87	149	496299	52.91	mg/L		98
79)	Mirex	17.66	272	50528	25.03	mg/L		100
81)	Di-n-octylphthalate	18.14	149	736000	53.09	mg/L		100
82)	Benzo(b)fluoranthene	19.02	252	381989	48.99	mg/L	#	95
83)	Benzo(k)fluoranthene	19.08	252	370990	49.09	mg/L	#	94
84)	Benzo(a)pyrene	19.78	252	321083	52.27	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.08	276	271480	54.68	mg/L	#	55
86)	Dibenz(a,h)anthracene	23.12	278	217917	50.97	mg/L	#	92
87)	Benzo(g,h,i)perylene	24.01	276	215195	52.55	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061886.D Vial: 11
Acq On : 26 Dec 2006 6:38 pm Operator: SC
Sample : 50PPM 8270 ICV 79-11 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:53 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



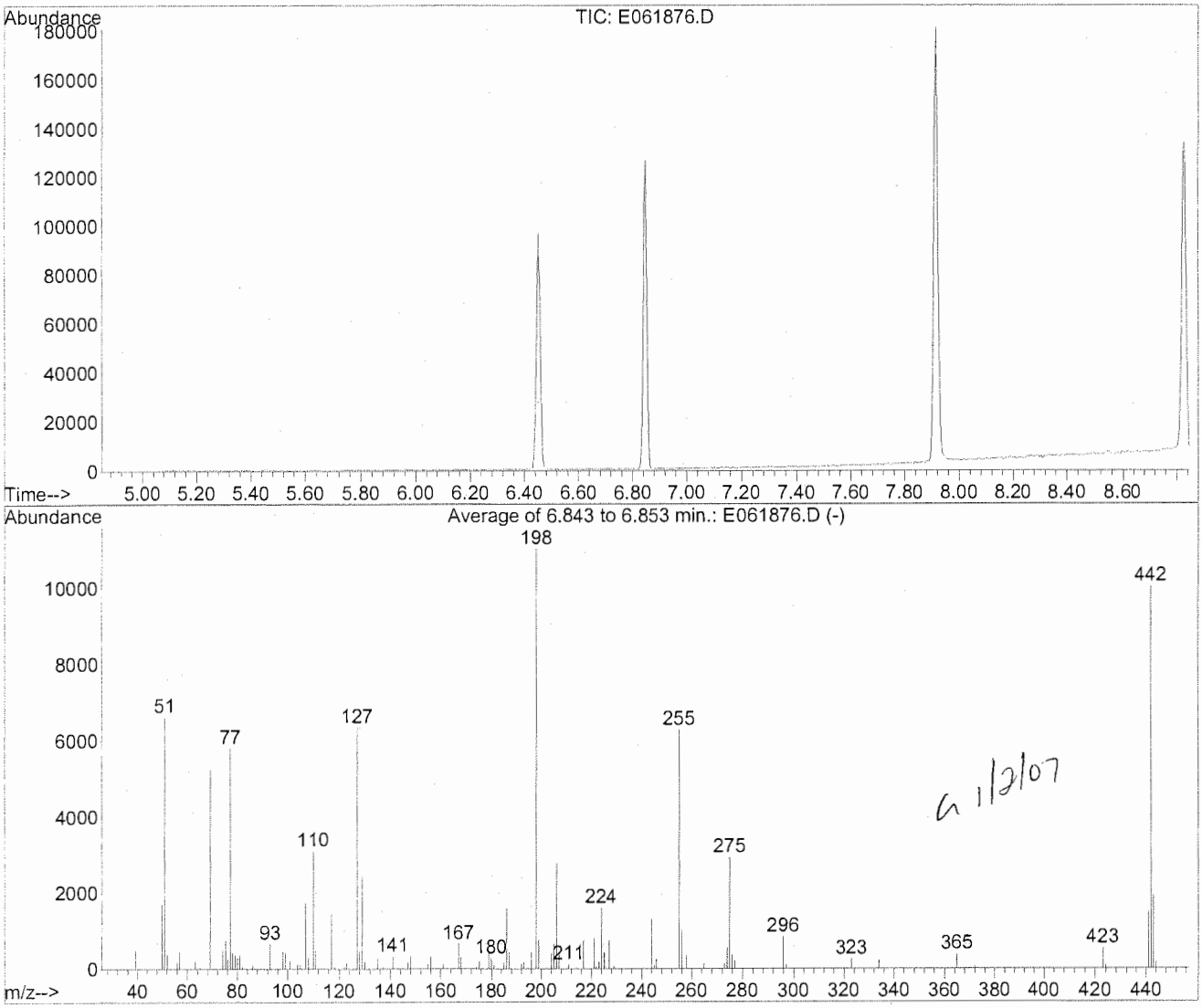
Continuing Calibration Data

Injection Log

Directory: C:\MSDCHEM\1\DATA\E061226

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E061876.d	1.	STUN1226		26 Dec 2006 13:16
2	2	E061877.d	1.	50PPM 8270 CCV		26 Dec 2006 13:32
3	3	E061878.d	1.	50PPM 8270 CCV		26 Dec 2006 14:05
4	4	E061879.d	1.	2PPM 8270 79-4		26 Dec 2006 14:51
5	5	E061880.d	1.	4PPM 8270 79-5		26 Dec 2006 15:23
6	6	E061881.d	1.	10PPM 8270 79-6		26 Dec 2006 15:56
7	7	E061882.d	1.	25PPM 8270 79-7		26 Dec 2006 16:28
8	8	E061883.d	1.	50PPM 8270 79-8		26 Dec 2006 17:01
9	9	E061884.d	1.	70PPM 8270 79-9		26 Dec 2006 17:33
10	10	E061885.d	1.	100PPM 8270 79-10		26 Dec 2006 18:05
11	11	E061886.d	1.	50PPM 8270 ICV 79-11		26 Dec 2006 18:38
12	12	E061887.d	1.	25 PPM 8270 CCV		26 Dec 2006 19:10
13	13	E061888.d	1.	MB 8270S 12/20/06		26 Dec 2006 19:42
14	14	E061889.d	1.	LCS 8270S 12/20/06		26 Dec 2006 20:14
15	15	E061890.d	1.	D0602087-001 1/2 8270S 12/2...		26 Dec 2006 20:47
16	16	E061891.d	1.	D0602087-002 1/2 8270S 12/2...		26 Dec 2006 21:19
17	17	E061892.d	1.	D0602087-003 1/2 8270S 12/2...		26 Dec 2006 21:51
18	18	E061893.d	1.	D0602087-004 1/2 8270S 12/2...		26 Dec 2006 22:24
19	19	E061894.d	1.	D0602087-005 1/2 8270S 12/2...		26 Dec 2006 22:56
20	20	E061895.d	1.	D0602087-006 1/2 8270S 12/2...		26 Dec 2006 23:29
21	21	E061896.d	1.	D0602087-008 1/2 8270S 12/2...		27 Dec 2006 00:01
22	22	E061897.d	1.	D0602087-009 1/2 8270S 12/2...		27 Dec 2006 00:33
23	23	E061898.d	1.	D0602087-010 1/2 8270S 12/2...		27 Dec 2006 01:05

Data File : C:\MSDCHEM\1\DATA\E061226\E061876.D Vial: 1
Acq On : 26 Dec 2006 1:16 pm Operator: SC
Sample : STUN1226 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method



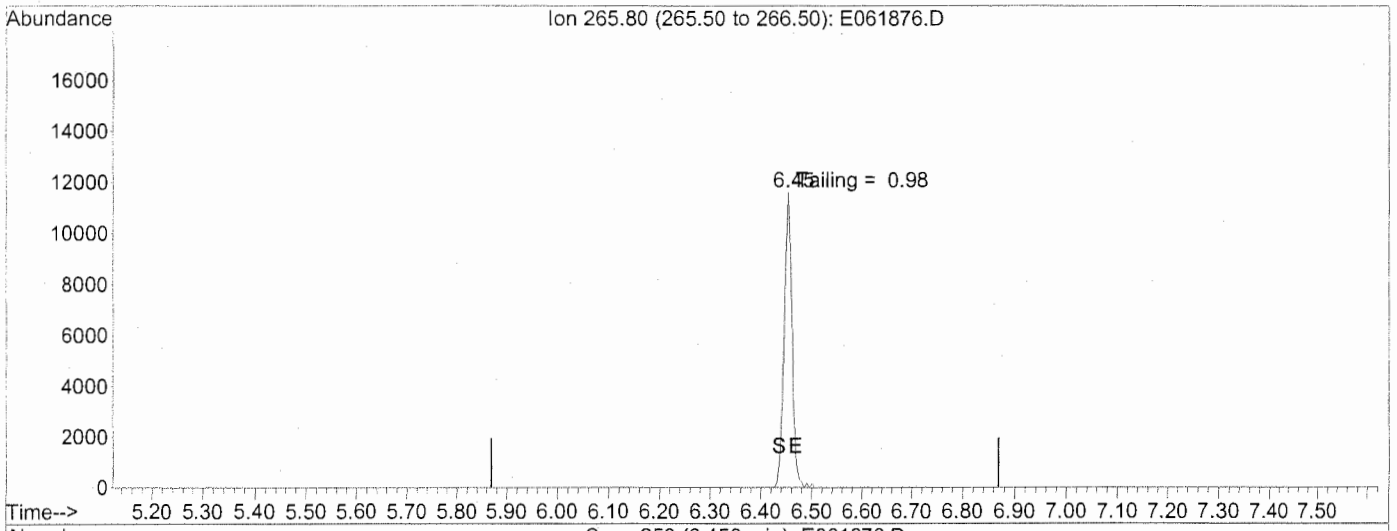
AutoFind: Scans 330, 331, 332; Background Corrected with Scan 318

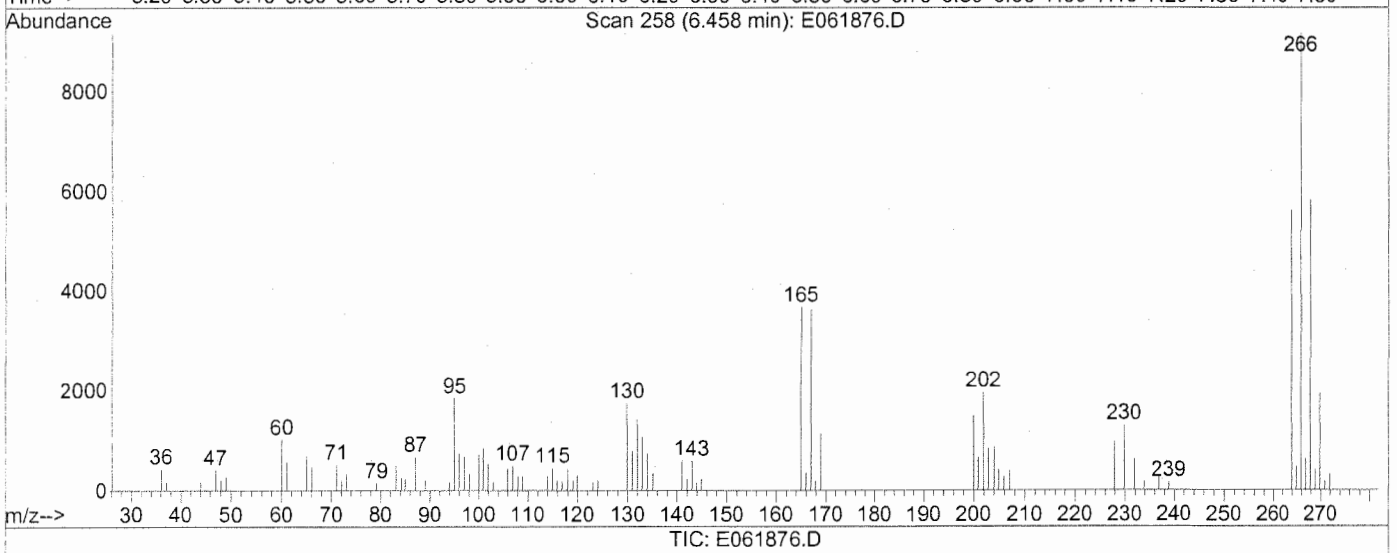
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.9	6624	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.4	5240	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	57.4	6345	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	11060	PASS
199	198	5	9	6.9	761	PASS
275	198	10	30	26.5	2934	PASS
365	198	1	100	3.4	378	PASS
441	443	0.01	100	77.1	1477	PASS
442	198	40	100	90.7	10033	PASS
443	442	17	23	19.1	1916	PASS

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061876.D Vial: 1
Acq On : 26 Dec 2006 1:16 pm Operator: SC
Sample : STUN1226 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Dec 27 16:03 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061876.D

(1) Pentachlorophenol

6.46min 0.00

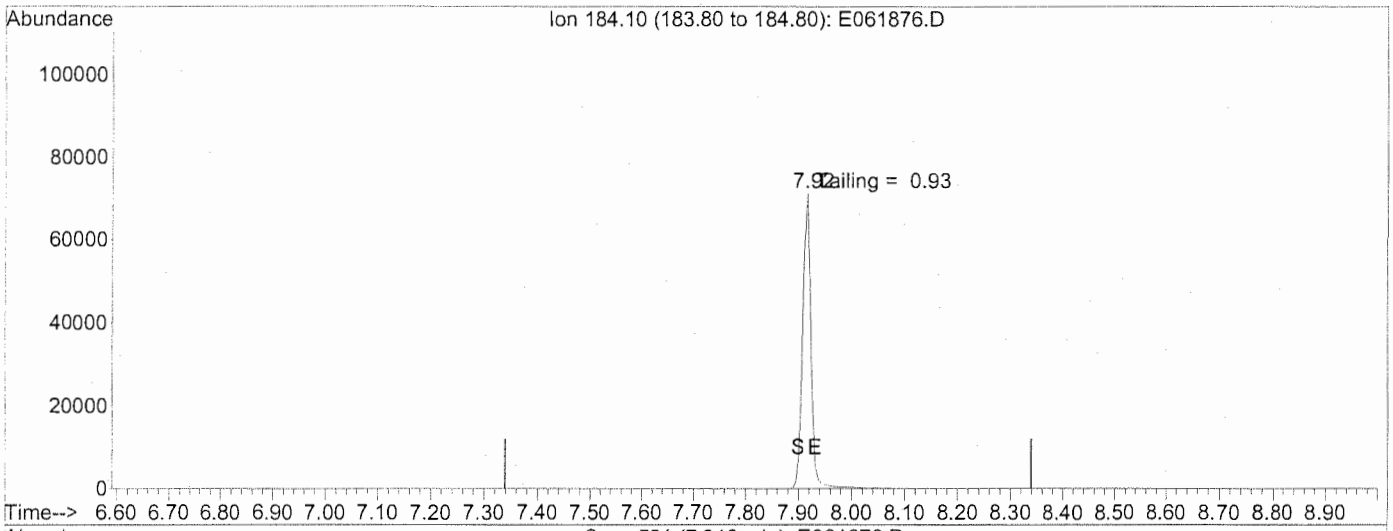
response 124253

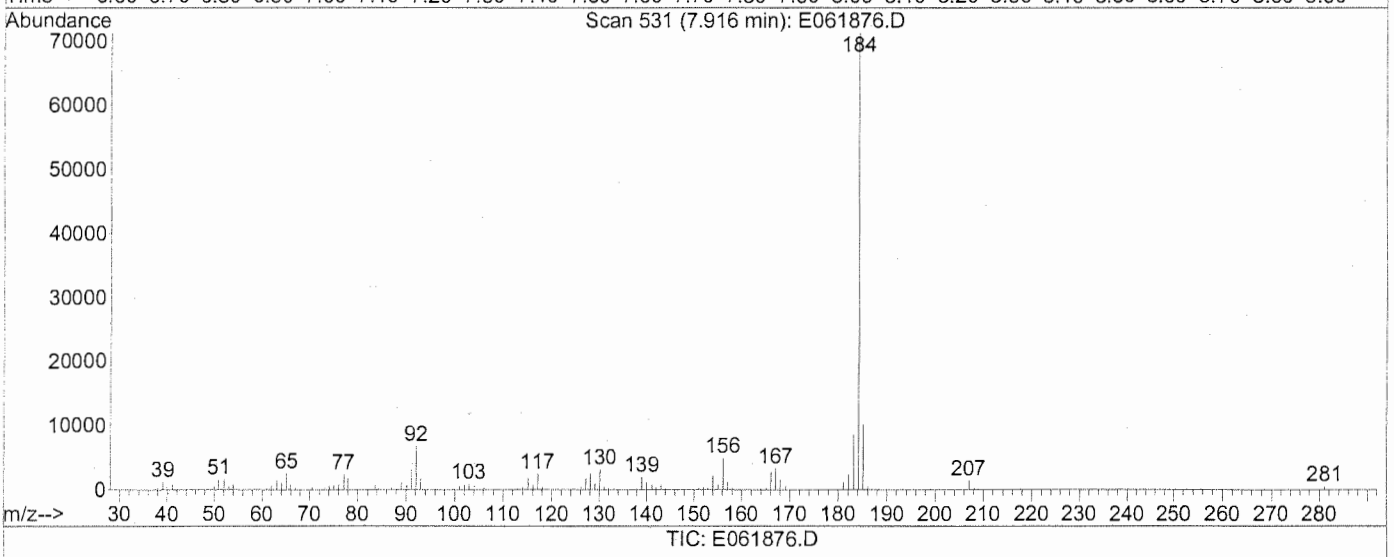
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061876.D Vial: 1
Acq On : 26 Dec 2006 1:16 pm Operator: SC
Sample : STUN1226 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Dec 27 16:03 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061876.D

(2) Benzidine

7.92min 0.00

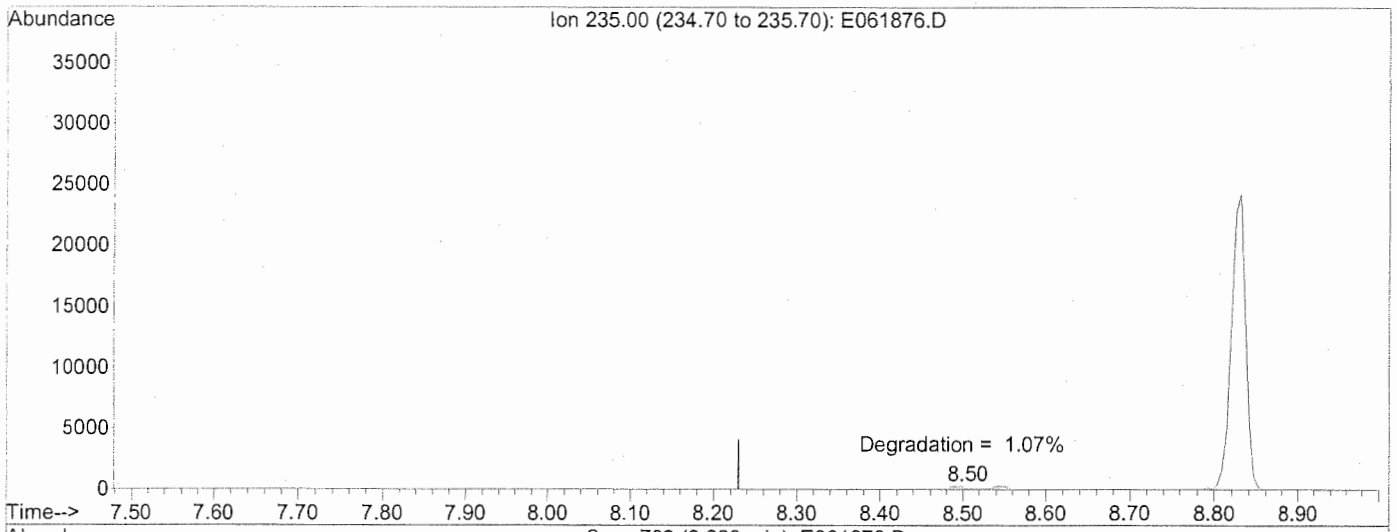
response 781489

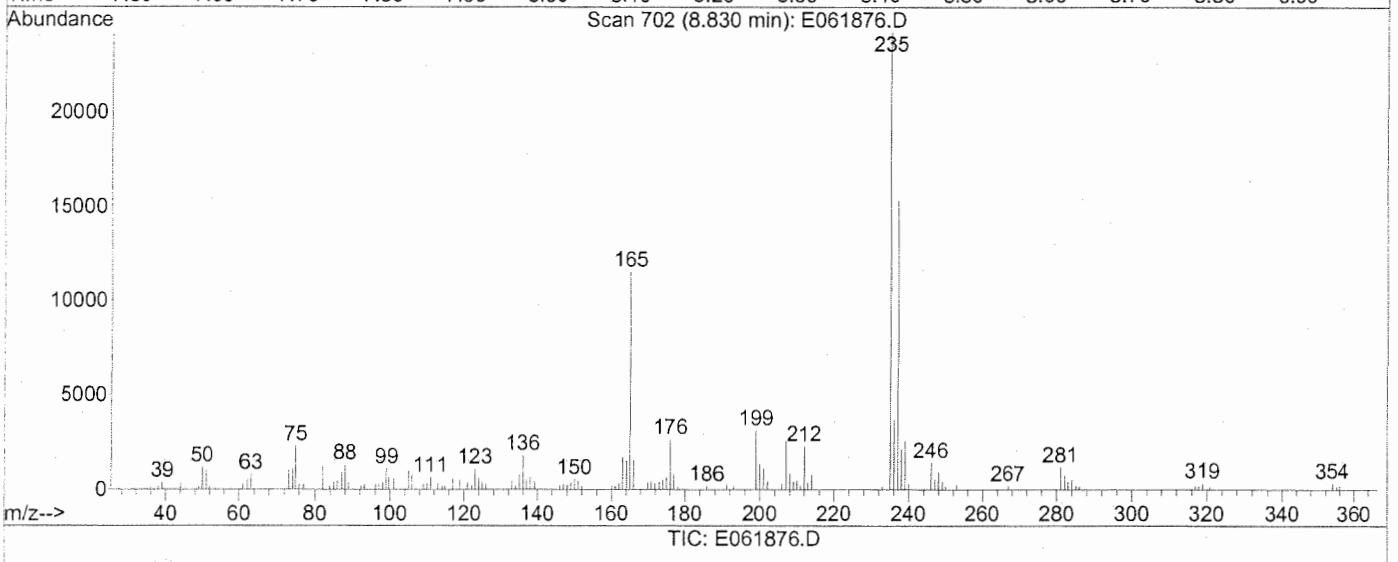
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061226\E061876.D Vial: 1
Acq On : 26 Dec 2006 1:16 pm Operator: SC
Sample : STUN1226 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Dec 27 16:03 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061876.D

(4) 4,4-DDT

8.83min 0.00

response 283773

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Report

Calibration ID: CAL1241
Method ID: MJ392
DataFile: C:\MSDCHEM\1\DATA\E061226\E061887.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
1,4-Dioxane		TRG	AverageRF	20		0.586	0.579	-1.2			
N-Nitrosodimethylamine		TRG	AverageRF	20		0.762	0.773	1.5			
Pyridine		TRG	AverageRF	20		1.520	1.521	0.0			
PGMEA		TRG	AverageRF	20		2.753	2.777	0.9			
2-Fluorophenol		SURR	AverageRF	20		1.274	1.296	1.7			
Phenol-d5		SURR	AverageRF	20		1.651	1.661	0.6			
Phenol	CCC	MS	AverageRF	20		1.739	1.748	0.5			
Aniline		TRG	AverageRF	20		2.014	2.141	6.3			
Bis(2-chloroethyl) Ether		TRG	AverageRF	20		1.431	1.432	0.1			
2-Chlorophenol		MS	AverageRF	20		1.474	1.489	1.0			
1,3-Dichlorobenzene		TRG	AverageRF	20		1.613	1.604	-0.6			
1,4-Dichlorobenzene	CCC	MS	AverageRF	20		1.647	1.636	-0.7			
Benzyl alcohol		TRG	AverageRF	20		0.940	0.954	1.5			
1,2-Dichlorobenzene		TRG	AverageRF	20		1.537	1.538	0.1			
1-Methyl-2-pyrrolidinone		TRG	AverageRF	20		0.935	0.959	2.6			
2-Methylphenol		TRG	AverageRF	20		1.293	1.298	0.3			
Bis(2-Chloroisopropyl)ether		TRG	AverageRF	20		2.729	2.761	1.2			
4-Methylphenol		TRG	AverageRF	20		1.638	1.660	1.4			
N-Nitrosodi-n-propylamine	SPCC	MS	AverageRF	20	0.05	0.967	0.987	2.0			
Hexachloroethane		TRG	AverageRF	20		0.606	0.613	1.2			
Nitrobenzene-d5		SURR	AverageRF	20		0.338	0.343	1.6			
Nitrobenzene		TRG	AverageRF	20		0.355	0.361	1.7			
Isophorone		TRG	AverageRF	20		0.637	0.657	3.2			
2,4-Dimethylphenol		TRG	AverageRF	20		0.324	0.324	-0.2			
2-Nitrophenol	CCC	TRG	AverageRF	20		0.200	0.200	-0.2			
bis(2-Chloroethoxy)methane		TRG	AverageRF	20		0.400	0.403	0.7			
Benzoic acid		TRG	AverageRF	20		0.213	0.223	4.8			
2,4-Dichlorophenol	CCC	TRG	AverageRF	20		0.274	0.280	2.0			
1,2,4-Trichlorobenzene		MS	AverageRF	20		0.296	0.294	-0.5			
Naphthalene		TRG	AverageRF	20		1.048	1.040	-0.8			
4-Chloroaniline		TRG	AverageRF	20		0.366	0.418	14.0			
Hexachlorobutadiene	CCC	TRG	AverageRF	20		0.155	0.153	-1.4			
4-Chloro-3-methylphenol		MS	AverageRF	20		0.280	0.289	2.9			
2-Methylnaphthalene		TRG	AverageRF	20		0.707	0.708	0.1			
Hexachlorocyclopentadiene	SPCC	TRG	AverageRF	20	0.05	0.318	0.319	0.2			
2,4,6-Trichlorophenol	CCC	TRG	AverageRF	20		0.329	0.336	2.1			
2,4,5-Trichlorophenol		TRG	AverageRF	20		0.357	0.360	0.9			
2-Fluorobiphenyl		SURR	AverageRF	20		1.261	1.255	-0.5			
2-Chloronaphthalene		TRG	AverageRF	20		1.127	1.123	-0.4			
2-Nitroaniline		TRG	AverageRF	20		0.347	0.368	6.3			
Dimethyl Phthalate		TRG	AverageRF	20		1.237	1.253	1.3			
2,6-Dinitrotoluene		TRG	AverageRF	20		0.289	0.304	5.0			
Acenaphthylene		TRG	AverageRF	20		1.833	1.851	1.0			
3-Nitroaniline		TRG	Quadratic	20		0.238	0.266		28.59	25.00	14.4
Acenaphthene	CCC	MS	AverageRF	20		1.208	1.271	5.2			
2,4-Dinitrophenol	SPCC	TRG	AverageRF	20	0.05	0.173	0.175	1.5			
4-Nitrophenol	SPCC	MS	AverageRF	20	0.05	0.142	0.157	10.8			
Dibenzofuran		TRG	AverageRF	20		1.579	1.586	0.4			

Calibration Verification Report

Calibration ID: CAL1241
Method ID: MJ392
DataFile: C:\MSDCHEM\1\DATA\E061226\E061887.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
2,4-Dinitrotoluene		MS	AverageRF	20		0.369	0.390	5.6			
Diethyl Phthalate		TRG	AverageRF	20		1.246	1.273	2.2			
4-Chlorophenyl Phenyl Ether		TRG	AverageRF	20		0.555	0.564	1.6			
Fluorene		TRG	AverageRF	20		1.285	1.303	1.4			
4-Nitroaniline		TRG	Quadratic	20		0.210	0.218		26.10	25.00	4.4
2-Methyl-4,6-dinitrophenol		TRG	AverageRF	20		0.133	0.137	2.8			
N-Nitrosodiphenylamine	CCC	TRG	AverageRF	20		0.571	0.556	-2.6			
Azobenzene		TRG	AverageRF	20		0.818	0.820	0.3			
2,4,6-Tribromophenol		SURR	AverageRF	20		0.096	0.098	2.2			
4-Bromophenyl Phenyl Ether		TRG	AverageRF	20		0.210	0.210	0.1			
Hexachlorobenzene		TRG	AverageRF	20		0.221	0.214	-3.3			
Pentachlorophenol	CCC	MS	AverageRF	20		0.147	0.148	0.9			
Phenanthrene		TRG	AverageRF	20		1.120	1.114	-0.5			
Anthracene		TRG	AverageRF	20		1.095	1.106	1.0			
Carbazole		TRG	Quadratic	20		0.702	0.526		28.51	25.00	14.0
Di-n-butyl Phthalate		TRG	AverageRF	20		1.226	1.283	4.7			
Fluoranthene	CCC	TRG	AverageRF	20		0.954	0.995	4.3			
Benzidine		TRG	AverageRF	20		0.506	0.575	13.7			
Pyrene		MS	AverageRF	20		1.729	1.711	-1.0			
Terphenyl-d14		SURR	AverageRF	20		1.118	1.112	-0.5			
Butyl Benzyl Phthalate		TRG	AverageRF	20		0.778	0.799	2.7			
3,3'-Dichlorobenzidine		TRG	Quadratic	20		0.294	0.232		44.98	50.00	-10.0
Benz(a)anthracene		TRG	AverageRF	20		1.162	1.169	0.6			
Chrysene		TRG	AverageRF	20		1.091	1.076	-1.3			
Bis(2-ethylhexyl) Phthalate		TRG	AverageRF	20		1.010	1.054	4.4			
Mirex		TRG	AverageRF	20		0.217	0.220	1.5			
Di-n-octyl Phthalate	CCC	TRG	AverageRF	20		2.579	2.798	8.5			
Benzo(b)fluoranthene		TRG	AverageRF	20		1.451	1.434	-1.1			
Benzo(k)fluoranthene		TRG	AverageRF	20		1.406	1.396	-0.7			
Benzo(a)pyrene	CCC	TRG	AverageRF	20		1.143	1.159	1.4			
Indeno(1,2,3-cd)pyrene		TRG	AverageRF	20		0.924	0.921	-0.3			
Dibenz(a,h)anthracene		TRG	AverageRF	20		0.795	0.797	0.2			
Benzo(g,h,i)perylene		TRG	AverageRF	20		0.762	0.750	-1.6			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	20.0
Calculated Average %D =	2.6

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	12/28/2006

Analysis Lot:	DWG0601100	**Prep Lot:**		**Report Group:**	
Analysis Method:	8270C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061226\E061876.D	**Method ID:**	MJ392
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061226\E061887.D			**Instrument:**	MSE
Acqu Date:	12/26/2006 19:10	**Quant Date:**	12/27/2006 09:56	**Vial:**	12
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0601100-2			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.36	0.00?	152	197784	40.00	OK
2	Naphthalene-d8	8.01	0.00?	136	788483	40.00	OK
3	Acenaphthene-d10	10.26	0.00?	164	435372	40.00	OK
4	Phenanthrene-d10	12.15	0.00?	188	675595	40.00	OK
5	Chrysene-d12	16.80	0.01?	240	384339	40.00	OK
6	Perylene-d12	19.92	0.00?	264	206649	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.72			112	160175	25.44		42-106	NA	
1	Phenol-d5	5.87			99	205299	25.15		34-112	NA	
2	Nitrobenzene-d5	7.10			82	169250	25.41		41-110	NA	
3	2-Fluorobiphenyl	9.39			172	341513	24.88		44-110	NA	
4	2,4,6-Tribromophenol	11.26			330	41393	25.54		37-106	NA	
5	Terphenyl-d14	14.68			244	267209	24.88		33-150	NA	

Target Compounds

Final Conc. Units: mg/KgDry

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.02			88	71558	24.71			
1	N-Nitrosodimethylamine	3.37			42	95591	25.38			
1	Pyridine	3.40			79	187982	25.01			
1	PGMEA	4.64			43	343290	25.22			
1	Phenol	5.88			94	216036	25.12			
1	Aniline	5.97			93	264693	26.59			
1	Bis(2-chloroethyl) Ether	6.02			93	177073	25.03			
1	2-Chlorophenol	6.12			128	184035	25.25			
1	1,3-Dichlorobenzene	6.31			146	198241	24.85			
1	1,4-Dichlorobenzene	6.38			146	202286	24.83			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061226\E061887.D			**Instrument:**	MSE
Acqu Date:	12/26/2006 19:10	**Quant Date:**	12/27/2006 09:56	**Vial:**	12
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0601100-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** mg/KgDry

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.53			108	117886	25.37			
1	1,2-Dichlorobenzene	6.62			146	190135	25.02			
1	1-Methyl-2-pyrrolidinone	6.63			99	118564	25.65			
1	2-Methylphenol	6.68			108	160432	25.09			
1	Bis(2-Chloroisopropyl)ether	6.73			45	341305	25.30			
1	4-Methylphenol	6.85			107	205236	25.34			
1	N-Nitrosodi-n-propylamine	6.91			70	121975	25.51			
1	Hexachloroethane	7.03			117	75820	25.30			
2	Nitrobenzene	7.13			77	177989	25.42			
2	Isophorone	7.42			82	323743	25.79			
2	2-Nitrophenol	7.54			139	98364	24.95			
2	2,4-Dimethylphenol	7.54			122	159423	24.96			
2	Benzoic acid	7.76			122	550406	131.02			
2	bis(2-Chloroethoxy)methane	7.68			93	198602	25.18			
2	2,4-Dichlorophenol	7.83			162	137928	25.49			
2	1,2,4-Trichlorobenzene	7.95			180	144958	24.88			
2	Naphthalene	8.04			128	512345	24.80			
2	4-Chloroaniline	8.11			127	205765	28.50			
2	Hexachlorobutadiene	8.25			225	75560	24.66			
2	4-Chloro-3-methylphenol	8.69			107	142197	25.73			
2	2-Methylnaphthalene	8.91			142	348862	25.02			
3	Hexachlorocyclopentadiene	9.19			237	86722	25.04			
3	2,4,6-Trichlorophenol	9.28			196	91515	25.52			
3	2,4,5-Trichlorophenol	9.33			196	98011	25.22			
3	2-Chloronaphthalene	9.54			162	305520	24.90			
3	2-Nitroaniline	9.68			65	100206	26.57			
3	Dimethyl Phthalate	9.92			163	340953	25.33			
3	Acenaphthylene	10.07			152	503646	25.24			
3	2,6-Dinitrotoluene	10.02			165	82627	26.26			
3	3-Nitroaniline	10.20			138	72352	28.59			
3	Acenaphthene	10.31			154	345808	26.29			
3	2,4-Dinitrophenol	10.33			184	95305	50.73			
3	4-Nitrophenol	10.36			109	85416	55.39			
3	Dibenzofuran	10.50			168	431617	25.11			
3	2,4-Dinitrotoluene	10.51			165	106122	26.39			
3	Fluorene	10.94			166	354553	25.34			
3	Diethyl Phthalate	10.80			149	346296	25.54			
3	4-Chlorophenyl Phenyl Ether	10.90			204	153383	25.39			
3	4-Nitroaniline	10.98			138	59412	26.10			
4	2-Methyl-4,6-dinitrophenol	11.03			198	115861	51.41			
4	N-Nitrosodiphenylamine	11.05			169	234880	24.35			
4	Azobenzene	11.10			77	346252	25.07			
4	4-Bromophenyl Phenyl Ether	11.52			248	88793	25.02			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061226\E061887.D			**Instrument:**	MSE
Acqu Date:	12/26/2006 19:10	**Quant Date:**	12/27/2006 09:56	**Vial:**	12
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0601100-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** mg/KgDry

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.74			284	90282	24.17			
4	Pentachlorophenol	11.96			266	124949	50.47			
4	Phenanthrene	12.19			178	470278	24.87			
4	Anthracene	12.24			178	467027	25.24			
4	Carbazole	12.45			167	222005	28.51			
4	Di-n-butyl Phthalate	12.98			149	541681	26.17			
4	Fluoranthene	14.04			202	420140	26.07			
5	Benzidine	14.22			184	276278	56.83			
5	Pyrene	14.43			202	410930	24.74			
5	Butyl Benzyl Phthalate	15.65			149	191904	25.67			
5	3,3'-Dichlorobenzidine	16.71			252	111255	44.98			
5	Benz(a)anthracene	16.75			228	280766	25.15			
5	Chrysene	16.84			228	258519	24.67			
5	Bis(2-ethylhexyl) Phthalate	16.87			149	253235	26.10			
5	Mirex	17.66			272	26481	12.68			
6	Di-n-octyl Phthalate	18.14			149	361386	27.12			
6	Benzo(b)fluoranthene	19.01			252	185250	24.72			
6	Benzo(k)fluoranthene	19.07			252	180331	24.82			
6	Benzo(a)pyrene	19.77			252	149628	25.34			
6	Indeno(1,2,3-cd)pyrene	23.07			276	118906	24.92			
6	Dibenz(a,h)anthracene	23.11			278	102917	25.04			
6	Benzo(g,h,i)perylene	24.00			276	96866	24.61			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from tbis analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E061226\E061887.D Vial: 12
Acq On : 26 Dec 2006 7:10 pm Operator: SC
Sample : 25 PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration

12/28/06

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00
2	N	1,4-Dioxane	0.586	0.579	1.2	112	0.00
3	T	N-Nitrosodimethylamine	0.762	0.773	-1.4	114	0.00
4	T	Pyridine	1.520	1.521	-0.1	112	0.00
5	N	PGMEA	2.753	2.777	-0.9	113	0.00
6	S	2-Fluorophenol	1.274	1.296	-1.7	114	0.00
7	S	Phenol-d5	1.651	1.661	-0.6	112	0.00
8	CMT	Phenol	1.739	1.748	-0.5#	112	-0.01
9	T	Aniline	2.014	2.141	-6.3	117	0.00
10	T	Bis(2-chloroethyl)ether	1.431	1.432	-0.1	112	0.00
11	MT	2-Chlorophenol	1.474	1.489	-1.0	113	0.00
12	T	1,3-Dichlorobenzene	1.613	1.604	0.6	112	0.00
13	CMT	1,4-Dichlorobenzene	1.647	1.636	0.7#	113	0.00
14	T	Benzyl alcohol	0.940	0.954	-1.5	112	0.00
15	T	1,2-Dichlorobenzene	1.537	1.538	-0.1	114	0.00
16	N	N-Methyl pyrrolidine (NMP)	0.935	0.959	-2.6	113	-0.04
17	T	2-Methylphenol	1.293	1.298	-0.4	112	-0.01
18	T	Bis(2-chloroisopropyl)ether	2.729	2.761	-1.2	112	0.00
19	T	4-Methylphenol	1.638	1.660	-1.3	112	-0.01
20	PMT	N-Nitrosodi-n-propylamine	0.967	0.987	-2.1	115	0.00
21	T	Hexachloroethane	0.606	0.613	-1.2	114	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.338	0.343	-1.5	114	0.00
24	T	Nitrobenzene	0.355	0.361	-1.7	114	0.00
25	T	Isophorone	0.637	0.657	-3.1	115	0.00
26	CT	2-Nitrophenol	0.200	0.200	0.0	91	0.00
27	T	2,4-Dimethylphenol	0.324	0.324	0.0	112	0.00
28	T	Benzoic acid	0.213	0.223	-4.7	113	-0.06
29	T	Bis(2-chloroethoxy)methane	0.400	0.403	-0.8	113	0.00
30	CT	2,4-Dichlorophenol	0.274	0.280	-2.2#	114	0.00
31	MT	1,2,4-Trichlorobenzene	0.296	0.294	0.7	113	0.00
32	T	Naphthalene	1.048	1.040	0.8	113	0.00
33	T	4-Chloroaniline	0.366	0.418	-14.2	148	0.00
34	CT	Hexachlorobutadiene	0.155	0.153	1.3#	113	0.00
35	CMT	4-Chloro-3-methylphenol	0.280	0.289	-3.2#	114	0.00
36	T	2-Methylnaphthalene	0.707	0.708	-0.1	112	0.00
37	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00
38	PT	Hexachlorocyclopentadiene	0.318	0.319	-0.3	112	0.00
39	CT	2,4,6-Trichlorophenol	0.329	0.336	-2.1#	114	0.00
40	T	2,4,5-Trichlorophenol	0.357	0.360	-0.8	112	0.00
41	S	2-Fluorobiphenyl	1.261	1.255	0.5	114	0.00
42	T	2-Chloronaphthalene	1.127	1.123	0.4	113	0.00
43	T	2-Nitroaniline	0.347	0.368	-6.1	118	0.00
44	T	Dimethylphthalate	1.237	1.253	-1.3	114	0.00
45	T	Acenaphthylene	1.833	1.851	-1.0	113	0.00
46	T	2,6-Dinitrotoluene	0.289	0.304	-5.2	116	0.00
47	T	3-Nitroaniline	0.238	0.266	-11.8	194#	0.00
48	CMT	Acenaphthene	1.208	1.271	-5.2#	115	0.00
49	PT	2,4-Dinitrophenol	0.173	0.175	-1.2	118	0.00
50	PMT	4-Nitrophenol	0.142	0.157	-10.6	115	0.00
51	T	Dibenzofuran	1.579	1.586	-0.4	114	0.00

(#) = Out of Range

Data File : C:\MSDCHEM\1\DATA\E061226\E061887.D Vial: 12
Acq On : 26 Dec 2006 7:10 pm Operator: SC
Sample : 25 PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	MT	2,4-Dinitrotoluene	0.369	0.390	-5.7	115	0.00
53	T	Fluorene	1.285	1.303	-1.4	114	0.00
54	T	Diethylphthalate	1.246	1.273	-2.2	115	0.00
55	T	4-Chlorophenyl phenyl ether	0.555	0.564	-1.6	115	0.00
56	T	4-Nitroaniline	0.210	0.218	-3.8	147	-0.01
57	I	Phenanthrene-d10	1.000	1.000	0.0	116	0.00
58	T	2-Methyl-4,6-dinitrophenol	0.133	0.137	-3.0	116	-0.01
59	CT	N-Nitrosodiphenylamine	0.571	0.556	2.6#	129	0.00
60	N	Azobenzene	0.818	0.820	-0.2	116	0.00
61	S	2,4,6-Tribromophenol	0.096	0.098	-2.1	115	0.00
62	T	4-Bromophenyl phenyl ether	0.210	0.210	0.0	117	0.00
63	T	Hexachlorobenzene	0.221	0.214	3.2	114	0.00
64	CMT	Pentachlorophenol	0.147	0.148	-0.7#	115	0.00
65	T	Phenanthrene	1.120	1.114	0.5	115	0.00
66	T	Anthracene	1.095	1.106	-1.0	115	0.00
67	N	Carbazole	0.702	0.526	25.1#	155#	0.00
68	T	Di-n-butylphthalate	1.226	1.283	-4.6	117	0.00
69	CT	Fluoranthene	0.954	0.995	-4.3#	115	0.00
70	I	Chrysene-d12	1.000	1.000	0.0	116	0.00
71	N	Benzidine	0.506	0.575	-13.6	123	0.00
72	MT	Pyrene	1.729	1.711	1.0	114	0.00
73	S	Terphenyl-d14	1.118	1.112	0.5	116	0.00
74	T	Butylbenzylphthalate	0.778	0.799	-2.7	117	0.00
75	T	3,3'-Dichlorobenzidine	0.294	0.232	21.1#	120	0.00
76	T	Benz(a)anthracene	1.162	1.169	-0.6	116	0.00
77	T	Chrysene	1.091	1.076	1.4	114	0.00
78	T	Bis(2-ethylhexyl)phthalate	1.010	1.054	-4.4	118	0.00
79	N	Mirex	0.217	0.220	-1.4	116	0.00
80	I	Perylene-d12	1.000	1.000	0.0	122	0.00
81	CT	Di-n-octylphthalate	2.579	2.798	-8.5#	120	0.00
82	T	Benzo(b)fluoranthene	1.451	1.434	1.2	121	0.00
83	T	Benzo(k)fluoranthene	1.406	1.396	0.7	122	0.00
84	CT	Benzo(a)pyrene	1.143	1.159	-1.4#	124	0.00
85	T	Indeno(1,2,3-c,d)pyrene	0.924	0.921	0.3	129	0.00
86	T	Dibenz(a,h)anthracene	0.795	0.797	-0.3	129	0.00
87	T	Benzo(g,h,i)perylene	0.762	0.750	1.6	127	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061887.D Vial: 12
Acq On : 26 Dec 2006 7:10 pm Operator: SC
Sample : 25 PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:56:26 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	197784	40.00	mg/L		0.00
22) Naphthalene-d8	8.01	136	788483	40.00	mg/L		0.00
37) Acenaphthene-d10	10.26	164	435372	40.00	mg/L		0.00
57) Phenanthrene-d10	12.15	188	675595	40.00	mg/L		0.00
70) Chrysene-d12	16.80	240	384339	40.00	mg/L		0.00
80) Perylene-d12	19.92	264	206649	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.72	112	160175	25.44	mg/L		0.00
Spiked Amount 50.000			Recovery =	50.88%			
7) Phenol-d5	5.87	99	205299	25.15	mg/L		0.00
Spiked Amount 50.000			Recovery =	50.30%			
23) Nitrobenzene-d5	7.10	82	169250	25.41	mg/L		0.00
Spiked Amount 50.000			Recovery =	50.82%			
41) 2-Fluorobiphenyl	9.39	172	341513	24.88	mg/L		0.00
Spiked Amount 50.000			Recovery =	49.76%			
61) 2,4,6-Tribromophenol	11.26	330	41393	25.54	mg/L		0.00
Spiked Amount 50.000			Recovery =	51.08%			
73) Terphenyl-d14	14.68	244	267209	24.88	mg/L		0.00
Spiked Amount 50.000			Recovery =	49.76%			
Target Compounds							Qvalue
2) 1,4-Dioxane	3.02	88	71558	24.71	mg/L	#	60
3) N-Nitrosodimethylamine	3.37	42	95591	25.38	mg/L		89
4) Pyridine	3.40	79	187982	25.01	mg/L	#	45
5) PGMEA	4.64	43	343290	25.22	mg/L	#	87
8) Phenol	5.88	94	216036	25.12	mg/L		92
9) Aniline	5.97	93	264693	26.59	mg/L		100
10) Bis(2-chloroethyl)ether	6.02	93	177073	25.03	mg/L		92
11) 2-Chlorophenol	6.12	128	184035	25.25	mg/L		97
12) 1,3-Dichlorobenzene	6.31	146	198241	24.85	mg/L		99
13) 1,4-Dichlorobenzene	6.38	146	202286	24.83	mg/L		99
14) Benzyl alcohol	6.53	108	117886	25.37	mg/L	#	77
15) 1,2-Dichlorobenzene	6.62	146	190135	25.02	mg/L		98
16) N-Methyl pyrrolidine (NMP)	6.63	99	118564	25.65	mg/L		100
17) 2-Methylphenol	6.68	108	160432	25.09	mg/L		99
18) Bis(2-chloroisopropyl)ethe	6.73	45	341305	25.30	mg/L	#	78
19) 4-Methylphenol	6.85	107	205236	25.34	mg/L	#	92
20) N-Nitrosodi-n-propylamine	6.91	70	121975	25.51	mg/L	#	74
21) Hexachloroethane	7.03	117	75820	25.30	mg/L	#	77
24) Nitrobenzene	7.13	77	177989	25.42	mg/L	#	78
25) Isophorone	7.42	82	323743	25.79	mg/L		94
26) 2-Nitrophenol	7.54	139	98364	24.95	mg/L	#	86
27) 2,4-Dimethylphenol	7.54	122	159423	24.96	mg/L	#	83
28) Benzoic acid	7.76	122	550406	131.02	mg/L	#	81
29) Bis(2-chloroethoxy)methane	7.68	93	198602	25.18	mg/L	#	84
30) 2,4-Dichlorophenol	7.83	162	137928	25.49	mg/L		98
31) 1,2,4-Trichlorobenzene	7.95	180	144958	24.88	mg/L		99
32) Naphthalene	8.04	128	512345	24.80	mg/L		99
33) 4-Chloroaniline	8.11	127	205765	28.50	mg/L		96
34) Hexachlorobutadiene	8.25	225	75560	24.66	mg/L		100
35) 4-Chloro-3-methylphenol	8.69	107	142197	25.73	mg/L		92
36) 2-Methylnaphthalene	8.91	142	348862	25.02	mg/L		99
38) Hexachlorocyclopentadiene	9.19	237	86722	25.04	mg/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061226\E061887.D Vial: 12
Acq On : 26 Dec 2006 7:10 pm Operator: SC
Sample : 25 PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 09:56:26 2006 Quant Results File: BA061226.RES

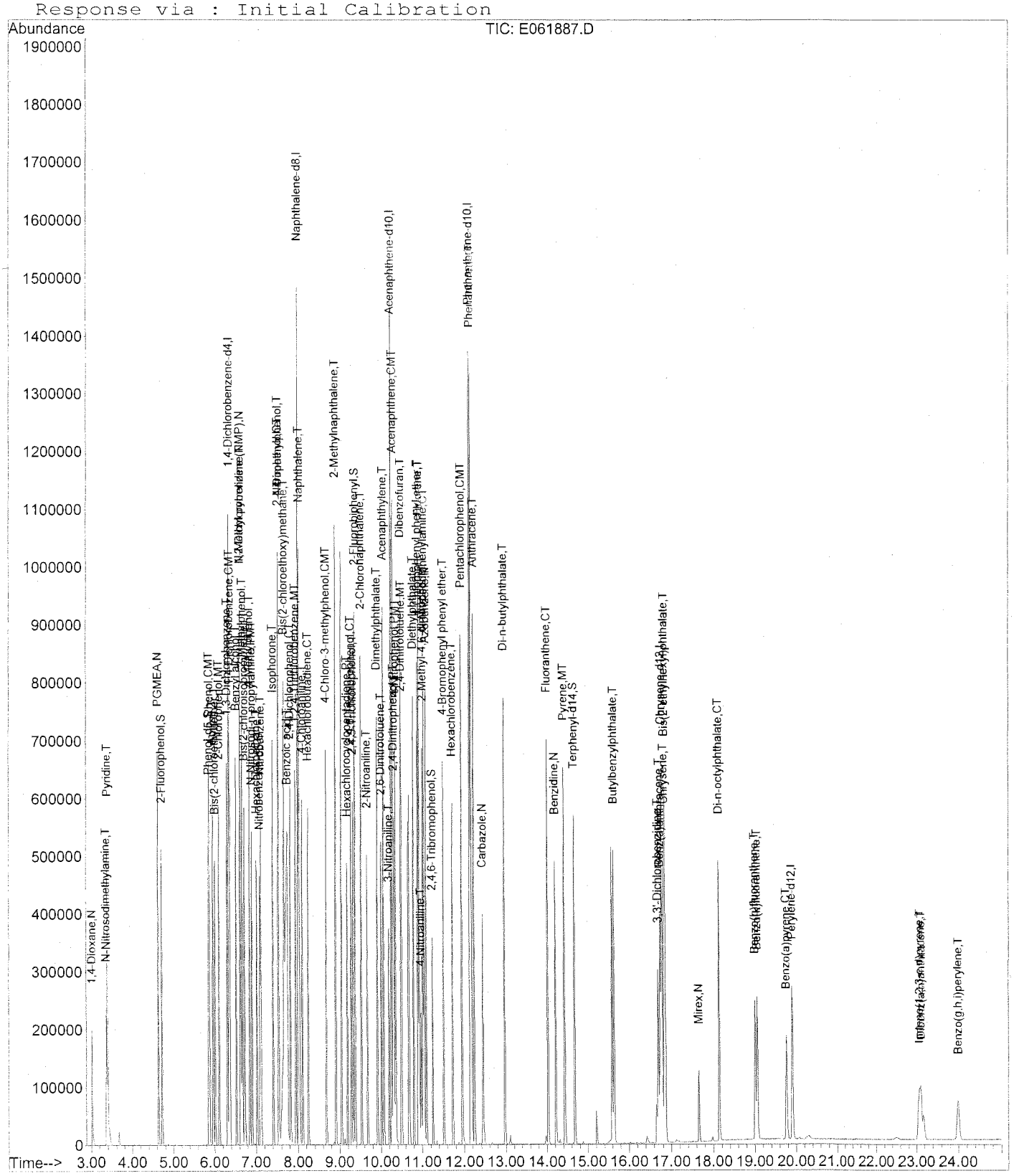
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.28	196	91515	25.52	mg/L		99
40)	2,4,5-Trichlorophenol	9.33	196	98011	25.22	mg/L	#	96
42)	2-Chloronaphthalene	9.54	162	305520	24.90	mg/L		98
43)	2-Nitroaniline	9.68	65	100206	26.57	mg/L		93
44)	Dimethylphthalate	9.92	163	340953	25.33	mg/L		97
45)	Acenaphthylene	10.07	152	503646	25.24	mg/L		100
46)	2,6-Dinitrotoluene	10.02	165	82627	26.26	mg/L		93
47)	3-Nitroaniline	10.20	138	72352	28.59	mg/L		89
48)	Acenaphthene	10.31	154	345808	26.29	mg/L		86
49)	2,4-Dinitrophenol	10.33	184	95305	50.73	mg/L	#	1
50)	4-Nitrophenol	10.36	109	85416	55.39	mg/L	#	47
51)	Dibenzofuran	10.50	168	431617	25.11	mg/L		94
52)	2,4-Dinitrotoluene	10.51	165	106122	26.39	mg/L	#	97
53)	Fluorene	10.94	166	354553	25.34	mg/L		99
54)	Diethylphthalate	10.80	149	346296	25.54	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.90	204	153383	25.39	mg/L		95
56)	4-Nitroaniline	10.98	138	59412	26.10	mg/L	#	88
58)	2-Methyl-4,6-dinitrophenol	11.03	198	115861	51.41	mg/L	#	81
59)	N-Nitrosodiphenylamine	11.05	169	234880	24.35	mg/L		93
60)	Azobenzene	11.10	77	346252	25.07	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.52	248	88793	25.02	mg/L		99
63)	Hexachlorobenzene	11.74	284	90282	24.17	mg/L		96
64)	Pentachlorophenol	11.96	266	124949	50.47	mg/L		99
65)	Phenanthrene	12.19	178	470278	24.87	mg/L		100
66)	Anthracene	12.24	178	467027	25.24	mg/L		99
67)	Carbazole	12.45	167	222005	28.51	mg/L		99
68)	Di-n-butylphthalate	12.98	149	541681	26.17	mg/L	#	99
69)	Fluoranthene	14.04	202	420140	26.07	mg/L	#	93
71)	Benzidine	14.22	184	276278	56.83	mg/L	#	96
72)	Pyrene	14.43	202	410930	24.74	mg/L		99
74)	Butylbenzylphthalate	15.65	149	191904	25.67	mg/L		94
75)	3,3'-Dichlorobenzidine	16.71	252	111255	44.98	mg/L	#	96
76)	Benz(a)anthracene	16.75	228	280766	25.15	mg/L		99
77)	Chrysene	16.84	228	258519	24.67	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.87	149	253235	26.10	mg/L		99
79)	Mirex	17.66	272	26481	12.68	mg/L		97
81)	Di-n-octylphthalate	18.14	149	361386	27.12	mg/L		99
82)	Benzo(b)fluoranthene	19.01	252	185250	24.72	mg/L	#	94
83)	Benzo(k)fluoranthene	19.07	252	180331	24.82	mg/L	#	94
84)	Benzo(a)pyrene	19.77	252	149628	25.34	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	23.07	276	118906	24.92	mg/L	#	51
86)	Dibenz(a,h)anthracene	23.11	278	102917	25.04	mg/L	#	91
87)	Benzo(g,h,i)perylene	24.00	276	96866	24.61	mg/L	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061226\E061887.D Vial: 12
Acq On : 26 Dec 2006 7:10 pm Operator: SC
Sample : 25 PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 9:56 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Injection Log

Directory: C:\MSDCHEM\1\DATA\E061229

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E061904.d	1.	STUN1229		29 Dec 2006 13:30
2	2	E061905.d	1.	50PPM 8270 CCV		29 Dec 2006 13:46
3	3	E061906.d	1.	MB 8270 12/26/06		29 Dec 2006 14:31
4	4	E061907.d	1.	LCS 8270W 12/26/06		29 Dec 2006 15:03
5	5	E061908.d	1.	D0602127-001 8270W 12/26/06		29 Dec 2006 15:36
6	6	E061909.d	1.	D0602127-002 8270W 12/26/06		29 Dec 2006 16:08
7	7	E061910.d	1.	D0602127-003 8270W 12/26/06		29 Dec 2006 16:41
8	8	E061911.d	1.	D0602127-004 8270W 12/26/06		29 Dec 2006 17:13
9	9	E061912.d	1.	D0602127-005 8270W 12/26/06		29 Dec 2006 17:45
10	10	E061913.d	1.	D0602127-005MS 8270W 12/26/06		29 Dec 2006 18:17
11	11	E061914.d	1.	D0602127-005MSD 8270W 12/26/06		29 Dec 2006 18:49
12	12	E061915.d	1.	D0602127-006 8270W 12/26/06		29 Dec 2006 19:22
13	13	E061916.d	1.	D0602139-002 1/10 8270W 12/...		29 Dec 2006 19:54
14	14	E061917.d	1.	D0602139-003 8270W 12/26/06		29 Dec 2006 20:26
15	15	E061918.d	1.	D0602139-004 8270W 12/26/06		29 Dec 2006 20:59
16	16	E061919.d	1.	D0602139-006 1/10 8270W 12/...		29 Dec 2006 21:31
17	17	E061920.d	1.	D0602088-001 8270W 12/20/06		29 Dec 2006 22:03
18	18	E061921.d	1.	D0602088-002 8270W 12/20/06		29 Dec 2006 22:35
19	19	E061922.d	1.	D0602088-003 8270W 12/20/06		29 Dec 2006 23:07
20	20	E061923.d	1.	D0602088-004 8270W 12/20/06		29 Dec 2006 23:40
21	21	E061924.d	1.	D0602113-001 625W 12/26/06		30 Dec 2006 00:12
22	22	E061925.d	1.	D0602113-002 625W 12/26/06		30 Dec 2006 00:44

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/02/2007

Analysis Lot:	DWG0700102	**Prep Lot:**		**Report Group:**	
Analysis Method:	DFTPP	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\TUNE.M	**Calibration ID:**	CAL1241
Title:	DFTPP Tuning Criteria	**Report List ID:**	LJ1247
Tune Ref:		**Method ID:**	MJ364
MB Ref:		**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 13:30	**Quant Date:**		**Vial:**	1
Run Type:	DFTPP			**Dilution:**	1.0
Lab ID:	DWG0700102-1			**Soln Conc. Units:**	

Tune Results

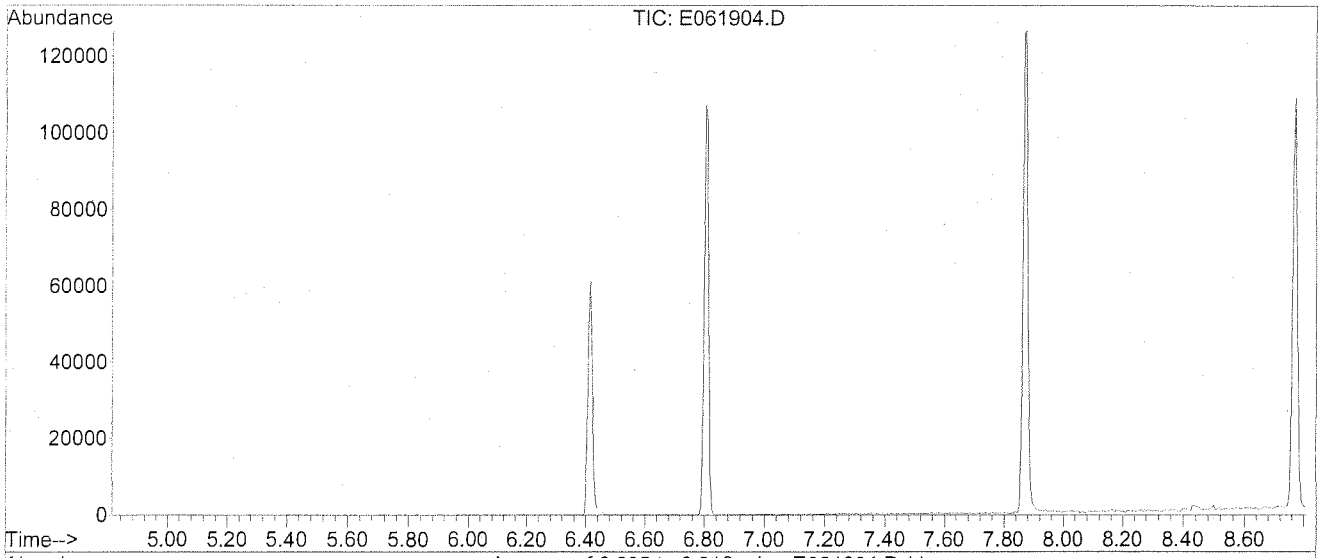
Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	60	51.5	5214	Pass
68	69	0	2	0.0	0	Pass
69	198	0	100	43.5	4398	Pass
70	69	0	2	0.0	0	Pass
127	198	40	60	53.1	5374	Pass
197	198	0	1	0.0	0	Pass
198	198	100	100	100.0	10115	Pass
199	198	5	9	6.6	672	Pass
275	198	10	30	24.4	2466	Pass
365	198	1	100	3.2	327	Pass
441	443	0	100	84.0	1334	Pass
442	198	40	100	82.9	8383	Pass
443	442	17	23	19.0	1589	Pass

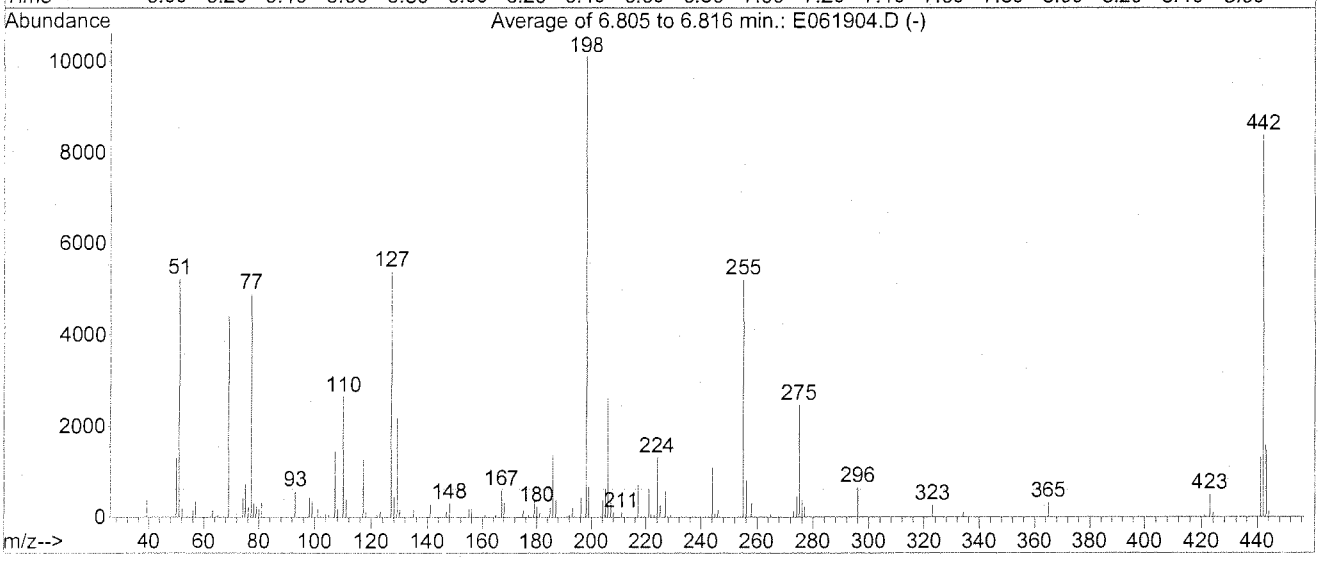
U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File : C:\MSDchem\1\DATA\E061229\E061904.D Vial: 1
Acq On : 29 Dec 2006 1:30 pm Operator: SC
Sample : STUN1229 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method





AutoFind: Scans 323, 324, 325; Background Corrected with Scan 312

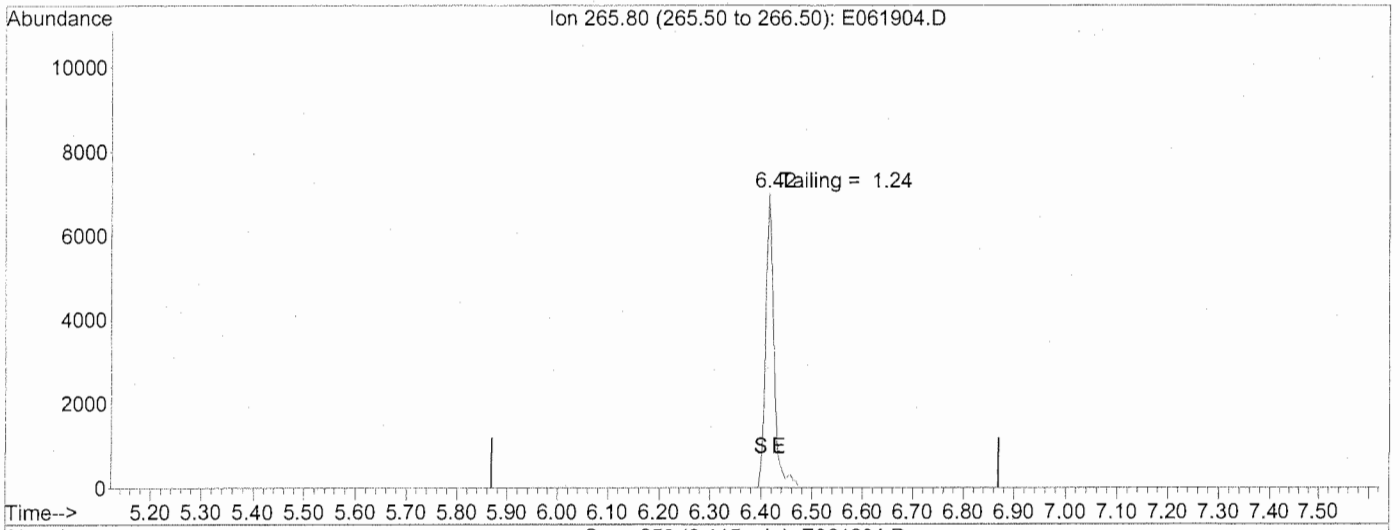
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.5	5214	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.5	4398	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.1	5374	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	10115	PASS
199	198	5	9	6.6	672	PASS
275	198	10	30	24.4	2466	PASS
365	198	1	100	3.2	327	PASS
441	443	0.01	100	84.0	1334	PASS
442	198	40	100	82.9	8383	PASS
443	442	17	23	19.0	1589	PASS

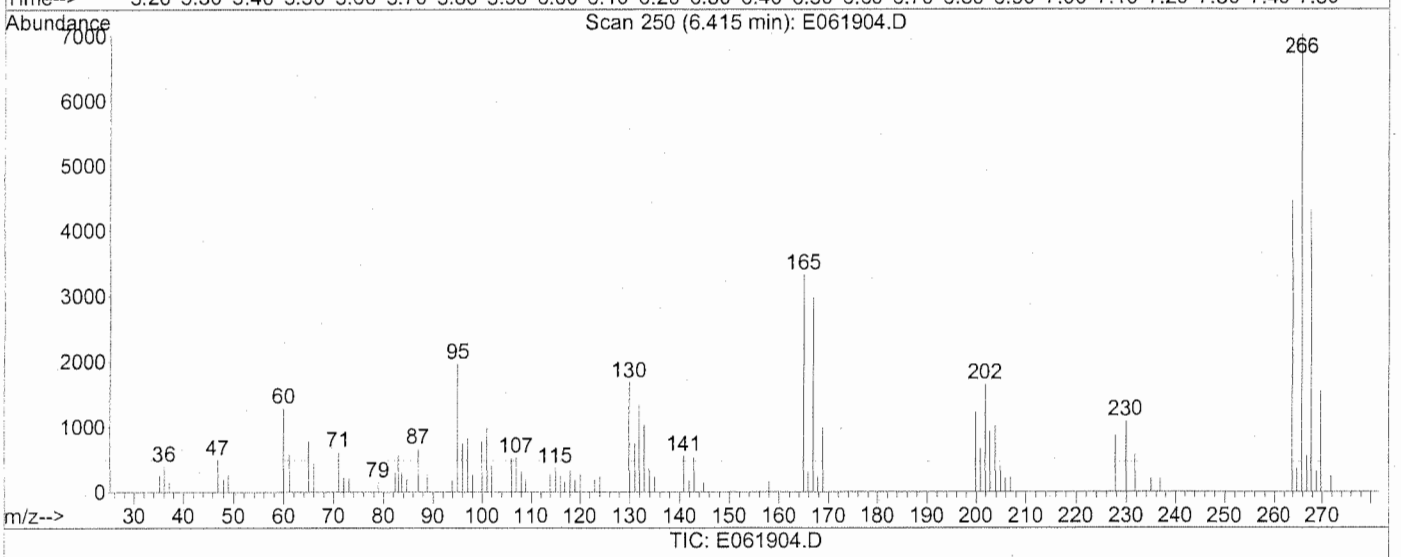
E061904.D TUNE.M Fri Dec 29 13:39:31 2006 G 12/29/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061904.D Vial: 1
Acq On : 29 Dec 2006 1:30 pm Operator: SC
Sample : STUN1229 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Dec 29 14:09 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061904.D

(1) Pentachlorophenol

6.42min 0.00

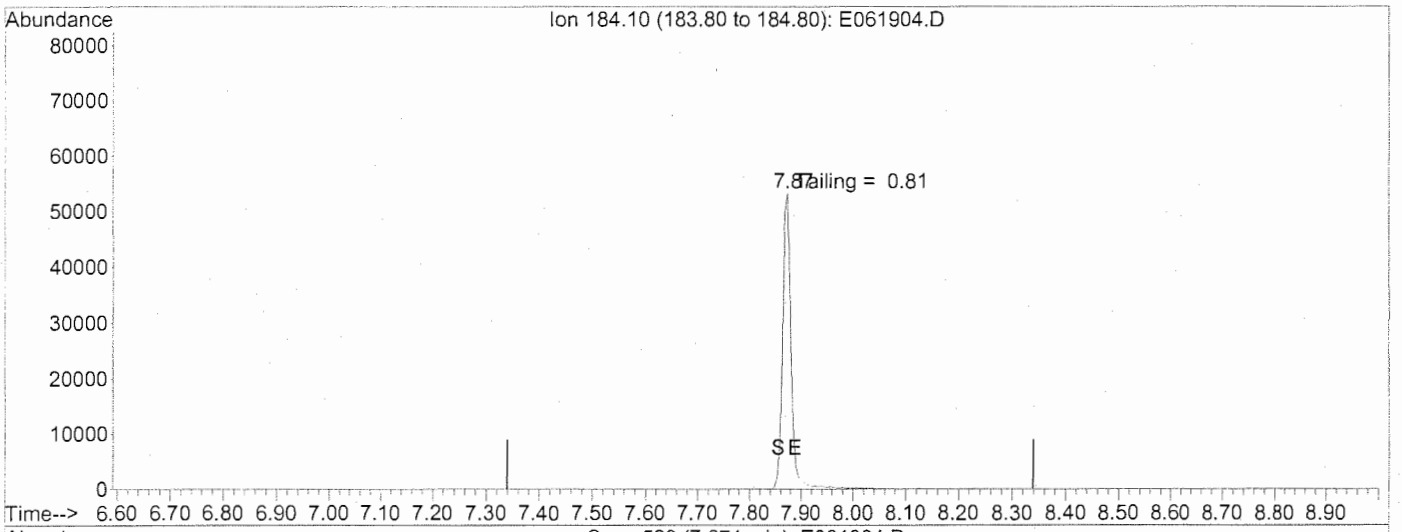
response 80446

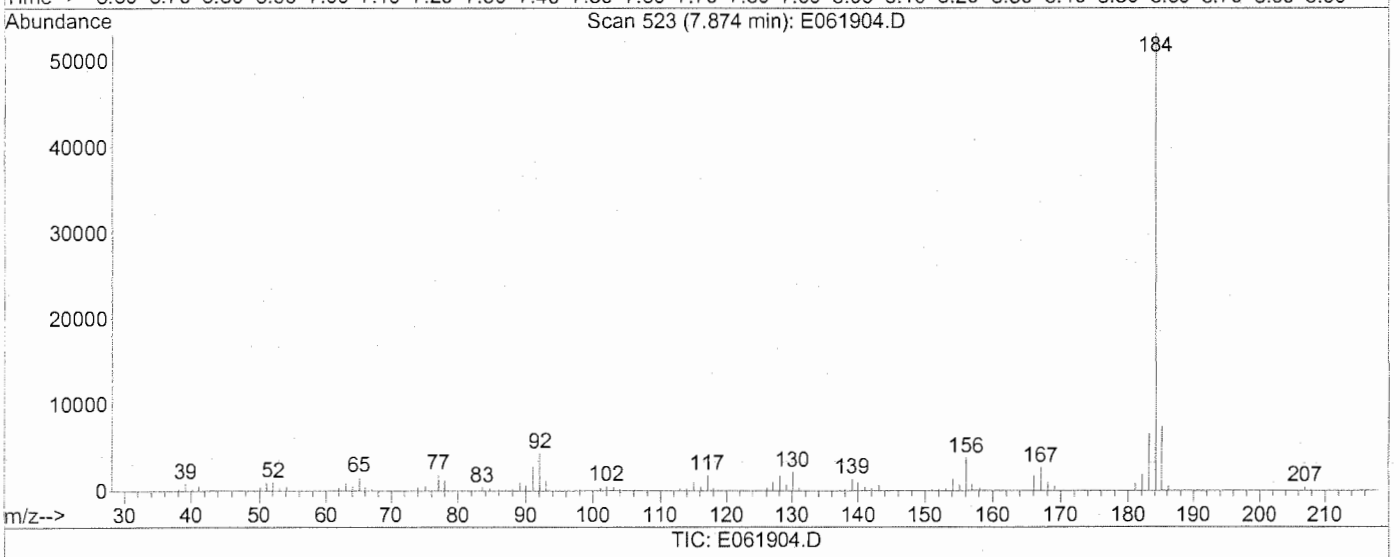
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061904.D Vial: 1
Acq On : 29 Dec 2006 1:30 pm Operator: SC
Sample : STUN1229 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Dec 29 14:09 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061904.D

(2) Benzidine

7.87min 0.00

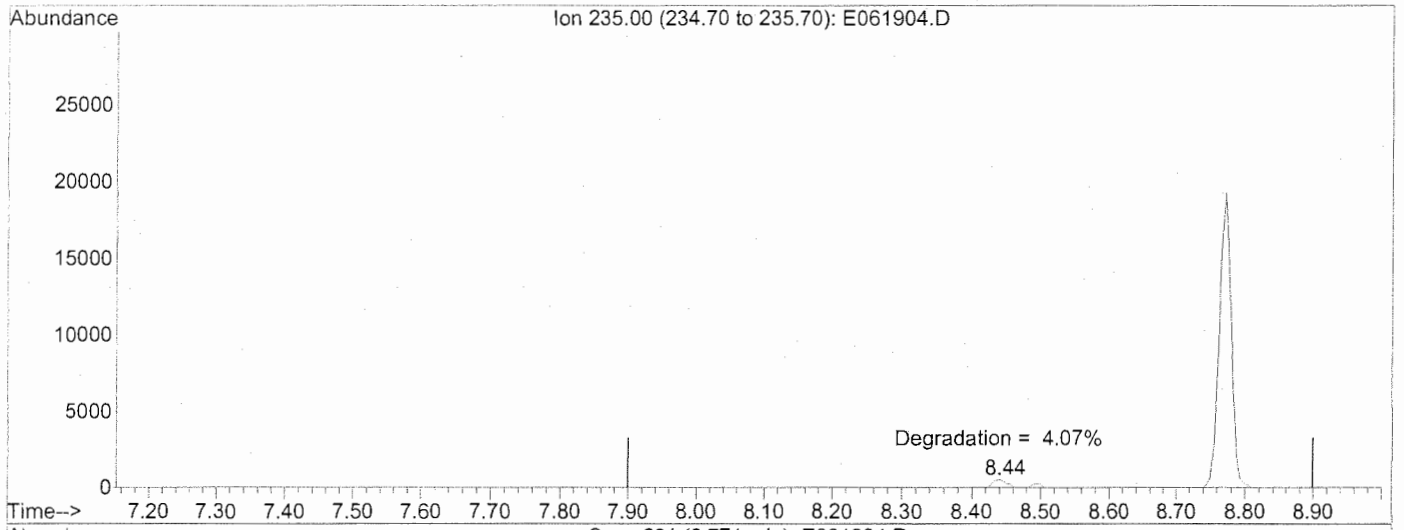
response 601599

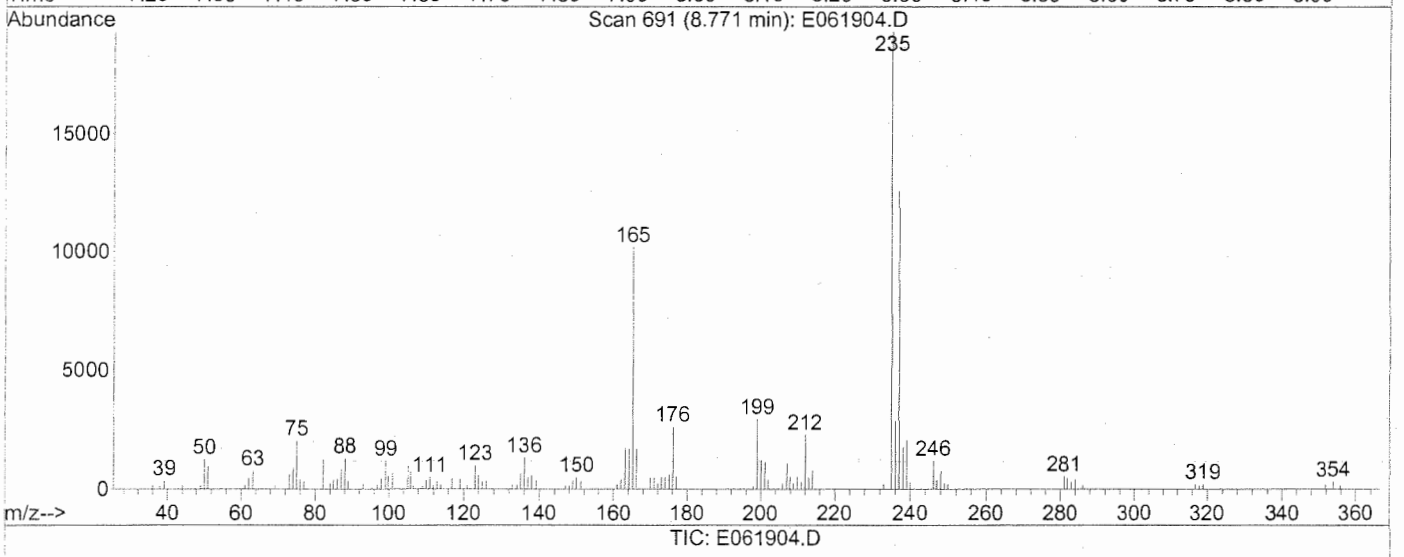
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061904.D Vial: 1
Acq On : 29 Dec 2006 1:30 pm Operator: SC
Sample : STUN1229 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Dec 29 14:09 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061904.D

(3) 4,4-DDD

8.77min 0.00

response 224497

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
Date Analyzed: 12/29/2006

Continuing Calibration Verification Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 12/26/2006
ICAL ID: CAL1241
Analysis Lot: DWG0700100
Units: mg/L

File ID: C:\MSDCHEM\1\DATA\E061229\E061905.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	50	52		0.296	0.305	3	NA	± 40 %	AverageRF
1,2-Dichlorobenzene	50	50		1.54	1.54	0	NA	± 40 %	AverageRF
1,3-Dichlorobenzene	50	50		1.61	1.61	0	NA	± 40 %	AverageRF
‡ 1,4-Dichlorobenzene	50	50		1.65	1.63	-1	NA	± 20 %	AverageRF
1,4-Dioxane	50	49		0.586	0.579	-1	NA	± 40 %	AverageRF
2,4,5-Trichlorophenol	50	52		0.357	0.372	4	NA	± 40 %	AverageRF
‡ 2,4,6-Trichlorophenol	50	52		0.329	0.344	4	NA	± 20 %	AverageRF
‡ 2,4-Dichlorophenol	50	52		0.274	0.287	5	NA	± 20 %	AverageRF
2,4-Dimethylphenol	50	51		0.324	0.332	2	NA	± 40 %	AverageRF
† 2,4-Dinitrophenol	100	95	0.05	0.173	0.165	-5	NA	± 40 %	AverageRF
2,4-Dinitrotoluene	50	53		0.369	0.395	7	NA	± 40 %	AverageRF
2,6-Dinitrotoluene	50	53		0.289	0.305	6	NA	± 40 %	AverageRF
2-Chloronaphthalene	50	49		1.13	1.11	-2	NA	± 40 %	AverageRF
2-Chlorophenol	50	49		1.47	1.45	-2	NA	± 40 %	AverageRF
2-Methyl-4,6-dinitrophenol	100	94		0.133	0.125	-6	NA	± 40 %	AverageRF
2-Methylnaphthalene	50	51		0.707	0.725	3	NA	± 40 %	AverageRF
2-Methylphenol	50	49		1.29	1.26	-3	NA	± 40 %	AverageRF
2-Nitroaniline	50	50		0.347	0.344	-1	NA	± 40 %	AverageRF
‡ 2-Nitrophenol	50	49		0.200	0.197	-2	NA	± 20 %	AverageRF
3,3'-Dichlorobenzidine	100	100		0.294	0.305	NA	3	± 40 %	Quadratic
3-Nitroaniline	50	47		0.238	0.236	NA	-6	± 40 %	Quadratic
4-Bromophenyl Phenyl Ether	50	44		0.210	0.187	-11	NA	± 40 %	AverageRF
4-Chloro-3-methylphenol	50	53		0.280	0.298	6	NA	± 40 %	AverageRF
4-Chloroaniline	50	53		0.366	0.391	7	NA	± 40 %	AverageRF
4-Chlorophenyl Phenyl Ether	50	53		0.555	0.586	5	NA	± 40 %	AverageRF
4-Methylphenol	50	50		1.64	1.64	0	NA	± 40 %	AverageRF
4-Nitroaniline	50	54		0.210	0.254	NA	8	± 40 %	Quadratic
† 4-Nitrophenol	100	120	0.05	0.142	0.167	18	NA	± 40 %	AverageRF
‡ Acenaphthene	50	52		1.21	1.26	4	NA	± 20 %	AverageRF
Acenaphthylene	50	49		1.83	1.81	-1	NA	± 40 %	AverageRF
Aniline	50	49		2.01	1.96	-3	NA	± 40 %	AverageRF
Anthracene	50	51		1.10	1.11	1	NA	± 40 %	AverageRF
Benz(a)anthracene	50	50		1.16	1.17	0	NA	± 40 %	AverageRF
‡ Benzo(a)pyrene	50	53		1.14	1.20	5	NA	± 20 %	AverageRF
Benzo(b)fluoranthene	50	51		1.45	1.49	3	NA	± 40 %	AverageRF
Benzo(g,h,i)perylene	50	49		0.762	0.747	-2	NA	± 40 %	AverageRF
Benzo(k)fluoranthene	50	52		1.41	1.45	3	NA	± 40 %	AverageRF
Benzoic acid	250	250		0.213	0.215	1	NA	± 40 %	AverageRF
Benzyl alcohol	50	49		0.940	0.917	-2	NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
Date Analyzed: 12/29/2006

Continuing Calibration Verification Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 12/26/2006
ICAL ID: CAL1241
Analysis Lot: DWG0700100
Units: mg/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D		%Drift	Criteria	Curve Fit
bis(2-Chloroethoxy)methane	50	50		0.400	0.402	1		NA	± 40 %	AverageRF
Bis(2-chloroethyl) Ether	50	48		1.43	1.38	-4		NA	± 40 %	AverageRF
Bis(2-Chloroisopropyl)ether	50	47		2.73	2.56	-6		NA	± 40 %	AverageRF
Bis(2-ethylhexyl) Phthalate	50	57		1.01	1.15	14		NA	± 40 %	AverageRF
Butyl Benzyl Phthalate	50	52		0.778	0.805	3		NA	± 40 %	AverageRF
Chrysene	50	49		1.09	1.08	-1		NA	± 40 %	AverageRF
Di-n-butyl Phthalate	50	56		1.23	1.37	11		NA	± 40 %	AverageRF
‡ Di-n-octyl Phthalate	50	61		2.58	3.15	22	*	NA	± 20 %	AverageRF
Dibenz(a,h)anthracene	50	52		0.795	0.822	3		NA	± 40 %	AverageRF
Dibenzofuran	50	51		1.58	1.61	2		NA	± 40 %	AverageRF
Diethyl Phthalate	50	53		1.25	1.32	6		NA	± 40 %	AverageRF
Dimethyl Phthalate	50	51		1.24	1.27	3		NA	± 40 %	AverageRF
‡ Fluoranthene	50	60		0.954	1.15	21	*	NA	± 20 %	AverageRF
Fluorene	50	52		1.29	1.33	4		NA	± 40 %	AverageRF
Hexachlorobenzene	50	43		0.221	0.191	-14		NA	± 40 %	AverageRF
‡ Hexachlorobutadiene	50	47		0.155	0.147	-5		NA	± 20 %	AverageRF
† Hexachlorocyclopentadiene	50	40	0.05	0.318	0.258	-19		NA	± 40 %	AverageRF
Hexachloroethane	50	51		0.606	0.615	2		NA	± 40 %	AverageRF
Indeno(1,2,3-cd)pyrene	50	51		0.924	0.936	1		NA	± 40 %	AverageRF
Isophorone	50	53		0.637	0.670	5		NA	± 40 %	AverageRF
† N-Nitrosodi-n-propylamine	50	51	0.05	0.967	0.982	2		NA	± 40 %	AverageRF
N-Nitrosodimethylamine	50	51		0.762	0.784	3		NA	± 40 %	AverageRF
‡ N-Nitrosodiphenylamine	50	42		0.571	0.482	-16		NA	± 40 %	AverageRF
Naphthalene	50	50		1.05	1.05	1		NA	± 40 %	AverageRF
Nitrobenzene	50	52		0.355	0.368	4		NA	± 40 %	AverageRF
‡ Pentachlorophenol	100	90		0.147	0.131	-10		NA	± 20 %	AverageRF
Phenanthrene	50	50		1.12	1.12	0		NA	± 40 %	AverageRF
‡ Phenol	50	49		1.74	1.69	-3		NA	± 20 %	AverageRF
Pyrene	50	47		1.73	1.62	-6		NA	± 40 %	AverageRF
Pyridine	50	50		1.52	1.51	-1		NA	± 40 %	AverageRF
2,4,6-Tribromophenol	50	45		0.0959	0.0867	-10		NA	± 40 %	AverageRF
2-Fluorobiphenyl	50	50		1.26	1.27	0		NA	± 40 %	AverageRF
2-Fluorophenol	50	49		1.27	1.25	-2		NA	± 40 %	AverageRF
Nitrobenzene-d5	50	52		0.338	0.351	4		NA	± 40 %	AverageRF
Phenol-d5	50	48		1.65	1.59	-3		NA	± 40 %	AverageRF
Terphenyl-d14	50	43		1.12	0.957	-14		NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/02/2007

Analysis Lot:	DWG0700102	**Prep Lot:**		**Report Group:**	
Analysis Method:	8270C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D	**Method ID:**	MJ392
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061905.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 13:46	**Quant Date:**	12/29/2006 14:15	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700102-2			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.33	-0.03?	152	148047	40.00	OK
2	Naphthalene-d8	7.99	-0.03?	136	575551	40.00	OK
3	Acenaphthene-d10	10.23	-0.03?	164	331024	40.00	OK
4	Phenanthrene-d10	12.11	-0.04?	188	551719	40.00	OK
5	Chrysene-d12	16.72	-0.07?	240	392104	40.00	OK
6	Perylene-d12	19.80	-0.11?	264	210954	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.71			112	231328	49.08		42-106	NA	
1	Phenol-d5	5.84			99	295043	48.30		34-112	NA	
2	Nitrobenzene-d5	7.08			82	252581	51.94		41-110	NA	
3	2-Fluorobiphenyl	9.35			172	524362	50.24		44-110	NA	
4	2,4,6-Tribromophenol	11.22			330	59816	45.20		37-106	NA	
5	Terphenyl-d14	14.62			244	469261	42.82		33-150	NA	

Target Compounds

Final Conc. Units: mg/KgDry

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.00			88	107126	49.41			
1	N-Nitrosodimethylamine	3.35			42	145084	51.46			
1	Pyridine	3.37			79	279362	49.65			
1	PGMEA	4.62			43	495447	48.62			
1	Phenol	5.86			94	312616	48.57			
1	Aniline	5.95			93	362324	48.62			
1	Bis(2-chloroethyl) Ether	6.00			93	255398	48.23			
1	2-Chlorophenol	6.10			128	268087	49.14			
1	1,3-Dichlorobenzene	6.29			146	297214	49.78			
1	1,4-Dichlorobenzene	6.35			146	302097	49.55			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte uot reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061905.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 13:46	**Quant Date:**	12/29/2006 14:15	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700102-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** mg/KgDry

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.51			108	169728	48.79			
1	1,2-Dichlorobenzene	6.60			146	284819	50.07			
1	1-Methyl-2-pyrrolidinone	6.62			99	175103	50.60			
1	2-Methylphenol	6.66			108	232877	48.65			
1	Bis(2-Chloroisopropyl)ether	6.70			45	474275	46.96			
1	4-Methylphenol	6.84			107	302879	49.97			
1	N-Nitrosodi-n-propylamine	6.89			70	181794	50.80			
1	Hexachloroethane	7.00			117	113837	50.75			
2	Nitrobenzene	7.11			77	264697	51.79			
2	Isophorone	7.39			82	482374	52.64			
2	2-Nitrophenol	7.51			139	141721	49.24			
2	2,4-Dimethylphenol	7.52			122	238526	51.17			
2	Benzoic acid	7.77			122	775067	252.75			
2	bis(2-Chloroethoxy)methane	7.65			93	289348	50.25			
2	2,4-Dichlorophenol	7.80			162	206689	52.34			
2	1,2,4-Trichlorobenzene	7.92			180	219091	51.51			
2	Naphthalene	8.01			128	757828	50.26			
2	4-Chloroaniline	8.08			127	280974	53.32			
2	Hexachlorobutadiene	8.22			225	106082	47.42			
2	4-Chloro-3-methylphenol	8.66			107	214240	53.10			
2	2-Methylnaphthalene	8.88			142	521650	51.25			
3	Hexachlorocyclopentadiene	9.16			237	106582	40.47			
3	2,4,6-Trichlorophenol	9.25			196	142232	52.16			
3	2,4,5-Trichlorophenol	9.31			196	153980	52.12			
3	2-Chloronaphthalene	9.50			162	457967	49.08			
3	2-Nitroaniline	9.65			65	142539	49.70			
3	Dimethyl Phthalate	9.89			163	524997	51.30			
3	Acenaphthylene	10.04			152	748029	49.31			
3	2,6-Dinitrotoluene	9.99			165	126245	52.76			
3	3-Nitroaniline	10.17			138	97661	47.00			
3	Acenaphthene	10.27			154	521712	52.17			
3	2,4-Dinitrophenol	10.29			184	136237	95.38			
3	4-Nitrophenol	10.34			109	137807	117.54			
3	Dibenzofuran	10.47			168	665847	50.95			
3	2,4-Dinitrotoluene	10.48			165	163307	53.42			
3	Fluorene	10.90			166	550753	51.77			
3	Diethyl Phthalate	10.76			149	545617	52.93			
3	4-Chlorophenyl Phenyl Ether	10.87			204	242276	52.75			
3	4-Nitroaniline	10.95			138	105181	53.89			
4	2-Methyl-4,6-dinitrophenol	10.99			198	172333	93.64			
4	N-Nitrosodiphenylamine	11.02			169	332595	42.22			
4	Azobenzene	11.07			77	531602	47.14			
4	4-Bromophenyl Phenyl Ether	11.48			248	128647	44.39			

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N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

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#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061905.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 13:46	**Quant Date:**	12/29/2006 14:15	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700102-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** mg/KgDry

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.69			284	131584	43.13			
4	Pentachlorophenol	11.92			266	181246	89.64			
4	Phenanthrene	12.14			178	769187	49.81			
4	Anthracene	12.20			178	765873	50.69			
4	Carbazole	12.40			167	376311	48.89			
4	Di-n-butyl Phthalate	12.93			149	941408	55.69			
4	Fluoranthene	13.98			202	793558	60.31			
5	Benzidine	14.16			184	443487	89.41			
5	Pyrene	14.38			202	792196	46.75			
5	Butyl Benzyl Phthalate	15.58			149	394487	51.73			
5	3,3'-Dichlorobenzidine	16.64			252	299171	102.60			
5	Benz(a)anthracene	16.68			228	572097	50.23			
5	Chrysene	16.77			228	527962	49.38			
5	Bis(2-ethylhexyl) Phthalate	16.79			149	565307	57.12			
5	Mirex	17.58			272	53118	24.93			
6	Di-n-octyl Phthalate	18.06			149	830162	61.03			
6	Benzo(b)fluoranthene	18.92			252	392187**m**	51.27			
6	Benzo(k)fluoranthene	18.98			252	383040	51.65			
6	Benzo(a)pyrene	19.67			252	316765	52.56			
6	Indeno(1,2,3-cd)pyrene	22.89			276	246936	50.69			
6	Dibenz(a,h)anthracene	22.93			278	216719	51.66			
6	Benzo(g,h,i)perylene	23.81			276	197096	49.05			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
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D: Result from dilution
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NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL1241
Method ID: MJ392

CCV Failed

DataFile: C:\MSDCHEM\1\DATA\E061229\E061905.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
1,4-Dioxane		TRG	AverageRF	20		0.586	0.579	-1.2			
N-Nitrosodimethylamine		TRG	AverageRF	20		0.762	0.784	2.9			
Pyridine		TRG	AverageRF	20		1.520	1.510	-0.7			
PGMEA		TRG	AverageRF	20		2.753	2.677	-2.8			
2-Fluorophenol		SURR	AverageRF	20		1.274	1.250	-1.8			
Phenol-d5		SURR	AverageRF	20		1.651	1.594	-3.4			
Phenol	CCC	MS	AverageRF	20		1.739	1.689	-2.9			
Aniline		TRG	AverageRF	20		2.014	1.958	-2.8			
Bis(2-chloroethyl) Ether		TRG	AverageRF	20		1.431	1.380	-3.5			
2-Chlorophenol		MS	AverageRF	20		1.474	1.449	-1.7			
1,3-Dichlorobenzene		TRG	AverageRF	20		1.613	1.606	-0.4			
1,4-Dichlorobenzene	CCC	MS	AverageRF	20		1.647	1.632	-0.9			
Benzyl alcohol		TRG	AverageRF	20		0.940	0.917	-2.4			
1,2-Dichlorobenzene		TRG	AverageRF	20		1.537	1.539	0.1			
1-Methyl-2-pyrrolidinone		TRG	AverageRF	20		0.935	0.946	1.2			
2-Methylphenol		TRG	AverageRF	20		1.293	1.258	-2.7			
Bis(2-Chloroisopropyl)ether		TRG	AverageRF	20		2.729	2.563	-6.1			
4-Methylphenol		TRG	AverageRF	20		1.638	1.637	-0.1			
N-Nitrosodi-n-propylamine	SPCC	MS	AverageRF	20	0.05	0.967	0.982	1.6			
Hexachloroethane		TRG	AverageRF	20		0.606	0.615	1.5			
Nitrobenzene-d5		SURR	AverageRF	20		0.338	0.351	3.9			
Nitrobenzene		TRG	AverageRF	20		0.355	0.368	3.6			
Isophorone		TRG	AverageRF	20		0.637	0.670	5.3			
2-Nitrophenol	CCC	TRG	AverageRF	20		0.200	0.197	-1.5			
2,4-Dimethylphenol		TRG	AverageRF	20		0.324	0.332	2.3			
bis(2-Chloroethoxy)methane		TRG	AverageRF	20		0.400	0.402	0.5			
Benzoic acid		TRG	AverageRF	20		0.213	0.215	1.1			
2,4-Dichlorophenol	CCC	TRG	AverageRF	20		0.274	0.287	4.7			
1,2,4-Trichlorobenzene		MS	AverageRF	20		0.296	0.305	3.0			
Naphthalene		TRG	AverageRF	20		1.048	1.053	0.5			
4-Chloroaniline		TRG	AverageRF	20		0.366	0.391	6.6			
Hexachlorobutadiene	CCC	TRG	AverageRF	20		0.155	0.147	-5.2			
4-Chloro-3-methylphenol		MS	AverageRF	20		0.280	0.298	6.2			
2-Methylnaphthalene		TRG	AverageRF	20		0.707	0.725	2.5			
Hexachlorocyclopentadiene	SPCC	TRG	AverageRF	20	0.05	0.318	0.258	-19.1			
2,4,6-Trichlorophenol	CCC	TRG	AverageRF	20		0.329	0.344	4.3			
2,4,5-Trichlorophenol		TRG	AverageRF	20		0.357	0.372	4.2			
2-Fluorobiphenyl		SURR	AverageRF	20		1.261	1.267	0.5			
2-Chloronaphthalene		TRG	AverageRF	20		1.127	1.107	-1.8			
2-Nitroaniline		TRG	AverageRF	20		0.347	0.344	-0.6			
Dimethyl Phthalate		TRG	AverageRF	20		1.237	1.269	2.6			
2,6-Dinitrotoluene		TRG	AverageRF	20		0.289	0.305	5.5			
Acenaphthylene		TRG	AverageRF	20		1.833	1.808	-1.4			
3-Nitroaniline		TRG	Quadratic	20		0.238	0.236		47.00	50.00	-6.0
Acenaphthene	CCC	MS	AverageRF	20		1.208	1.261	4.3			
2,4-Dinitrophenol	SPCC	TRG	AverageRF	20	0.05	0.173	0.165	-4.6			
4-Nitrophenol	SPCC	MS	AverageRF	20	0.05	0.142	0.167	17.5			
Dibenzofuran		TRG	AverageRF	20		1.579	1.609	1.9			

2 Compounds Failed CCV Criteria

Calibration Verification Report

Calibration ID: CAL1241
Method ID: MJ392

CCV Failed

DataFile: C:\MSDCHEM\1\DATA\E061229\E061905.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
2,4-Dinitrotoluene		MS	AverageRF	20		0.369	0.395	6.8			
Diethyl Phthalate		TRG	AverageRF	20		1.246	1.319	5.9			
4-Chlorophenyl Phenyl Ether		TRG	AverageRF	20		0.555	0.586	5.5			
Fluorene		TRG	AverageRF	20		1.285	1.331	3.5			
4-Nitroaniline		TRG	Quadratic	20		0.210	0.254		53.89	50.00	7.8
2-Methyl-4,6-dinitrophenol		TRG	AverageRF	20		0.133	0.125	-6.4			
N-Nitrosodiphenylamine	CCC	TRG	AverageRF	20		0.571	0.482	-15.6			
Azobenzene		TRG	AverageRF	20		0.818	0.771	-5.7			
2,4,6-Tribromophenol		SURR	AverageRF	20		0.096	0.087	-9.6			
4-Bromophenyl Phenyl Ether		TRG	AverageRF	20		0.210	0.187	-11.2			
Hexachlorobenzene		TRG	AverageRF	20		0.221	0.191	-13.7			
Pentachlorophenol	CCC	MS	AverageRF	20		0.147	0.131	-10.4			
Phenanthrene		TRG	AverageRF	20		1.120	1.115	-0.4			
Anthracene		TRG	AverageRF	20		1.095	1.111	1.4			
Carbazole		TRG	Quadratic	20		0.702	0.546		48.89	50.00	-2.2
Di-n-butyl Phthalate		TRG	AverageRF	20		1.226	1.365	11.4			
Fluoranthene	CCC	TRG	AverageRF	20		0.954	1.151	20.6 *			
Benzidine		TRG	AverageRF	20		0.506	0.452	-10.6			
Pyrene		MS	AverageRF	20		1.729	1.616	-6.5			
Terphenyl-d14		SURR	AverageRF	20		1.118	0.957	-14.4			
Butyl Benzyl Phthalate		TRG	AverageRF	20		0.778	0.805	3.5			
3,3'-Dichlorobenzidine		TRG	Quadratic	20		0.294	0.305		102.6	100.0	2.6
Benz(a)anthracene		TRG	AverageRF	20		1.162	1.167	0.5			
Chrysene		TRG	AverageRF	20		1.091	1.077	-1.2			
Bis(2-ethylhexyl) Phthalate		TRG	AverageRF	20		1.010	1.153	14.2			
Mirex		TRG	AverageRF	20		0.217	0.217	-0.3			
Di-n-octyl Phthalate	CCC	TRG	AverageRF	20		2.579	3.148	22.1 *			
Benzo(b)fluoranthene		TRG	AverageRF	20		1.451	1.487	2.5			
Benzo(k)fluoranthene		TRG	AverageRF	20		1.406	1.453	3.3			
Benzo(a)pyrene	CCC	TRG	AverageRF	20		1.143	1.201	5.1			
Indeno(1,2,3-cd)pyrene		TRG	AverageRF	20		0.924	0.936	1.4			
Dibenz(a,h)anthracene		TRG	AverageRF	20		0.795	0.822	3.3			
Benzo(g,h,i)perylene		TRG	AverageRF	20		0.762	0.747	-1.9			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	20.0
Calculated Average %D =	4.9

2 Compounds Failed CCV Criteria

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:12:38 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	148047	40.00	mg/L	-0.03
22) Naphthalene-d8	7.99	136	575551	40.00	mg/L	-0.03
37) Acenaphthene-d10	10.23	164	331024	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.11	188	551719	40.00	mg/L	-0.05
70) Chrysene-d12	16.72	240	392104	40.00	mg/L	-0.07
80) Perylene-d12	19.80	264	210954	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.71	112	231328	49.08	mg/L	-0.02
Spiked Amount 50.000			Recovery = 98.16%			
7) Phenol-d5	5.84	99	295043	48.30	mg/L	-0.03
Spiked Amount 50.000			Recovery = 96.60%			
23) Nitrobenzene-d5	7.08	82	252581	51.94	mg/L	-0.03
Spiked Amount 50.000			Recovery = 103.88%			
41) 2-Fluorobiphenyl	9.35	172	524362	50.24	mg/L	-0.03
Spiked Amount 50.000			Recovery = 100.48%			
61) 2,4,6-Tribromophenol	11.22	330	59816	45.20	mg/L	-0.04
Spiked Amount 50.000			Recovery = 90.40%			
73) Terphenyl-d14	14.62	244	469261	42.82	mg/L	-0.07
Spiked Amount 50.000			Recovery = 85.64%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	107126	49.41	mg/L #	78
3) N-Nitrosodimethylamine	3.35	42	145084	51.46	mg/L	85
4) Pyridine	3.37	79	279362	49.65	mg/L #	63
5) PGMEA	4.62	43	495447	48.62	mg/L #	88
8) Phenol	5.86	94	312616	48.57	mg/L	92
9) Aniline	5.95	93	362324	48.62	mg/L	98
10) Bis(2-chloroethyl)ether	6.00	93	255398	48.23	mg/L	96
11) 2-Chlorophenol	6.10	128	268087	49.14	mg/L	99
12) 1,3-Dichlorobenzene	6.29	146	297214	49.78	mg/L	99
13) 1,4-Dichlorobenzene	6.35	146	302097	49.55	mg/L	99
14) Benzyl alcohol	6.51	108	169728	48.79	mg/L #	79
15) 1,2-Dichlorobenzene	6.60	146	284819	50.07	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.62	99	175103	50.60	mg/L	99
17) 2-Methylphenol	6.66	108	232877	48.65	mg/L	100
18) Bis(2-chloroisopropyl)ethe	6.70	45	474275	46.96	mg/L #	81
19) 4-Methylphenol	6.84	107	302879	49.97	mg/L #	94
20) N-Nitrosodi-n-propylamine	6.89	70	181794	50.80	mg/L #	75
21) Hexachloroethane	7.00	117	113837	50.75	mg/L #	80
24) Nitrobenzene	7.11	77	264697	51.79	mg/L #	82
25) Isophorone	7.39	82	482374	52.64	mg/L	94
26) 2-Nitrophenol	7.51	139	141721	49.24	mg/L #	87
27) 2,4-Dimethylphenol	7.52	122	238526	51.17	mg/L	84
28) Benzoic acid	7.77	122	775067	252.75	mg/L #	84
29) Bis(2-chloroethoxy)methane	7.65	93	289348	50.25	mg/L #	91
30) 2,4-Dichlorophenol	7.80	162	206689	52.34	mg/L	98
31) 1,2,4-Trichlorobenzene	7.92	180	219091	51.51	mg/L	99
32) Naphthalene	8.01	128	757828	50.26	mg/L	100
33) 4-Chloroaniline	8.08	127	280974	53.32	mg/L	95
34) Hexachlorobutadiene	8.22	225	106082	47.42	mg/L	99
35) 4-Chloro-3-methylphenol	8.66	107	214240	53.10	mg/L	93
36) 2-Methylnaphthalene	8.88	142	521650	51.25	mg/L	99
38) Hexachlorocyclopentadiene	9.16	237	106582	40.47	mg/L	98

(#) = qualifier out of range (m) = manual integration
E061905.D BA061226.M Fri Dec 29 14:15:14 2006 12/29/06

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:12:38 2006 Quant Results File: BA061226.RES

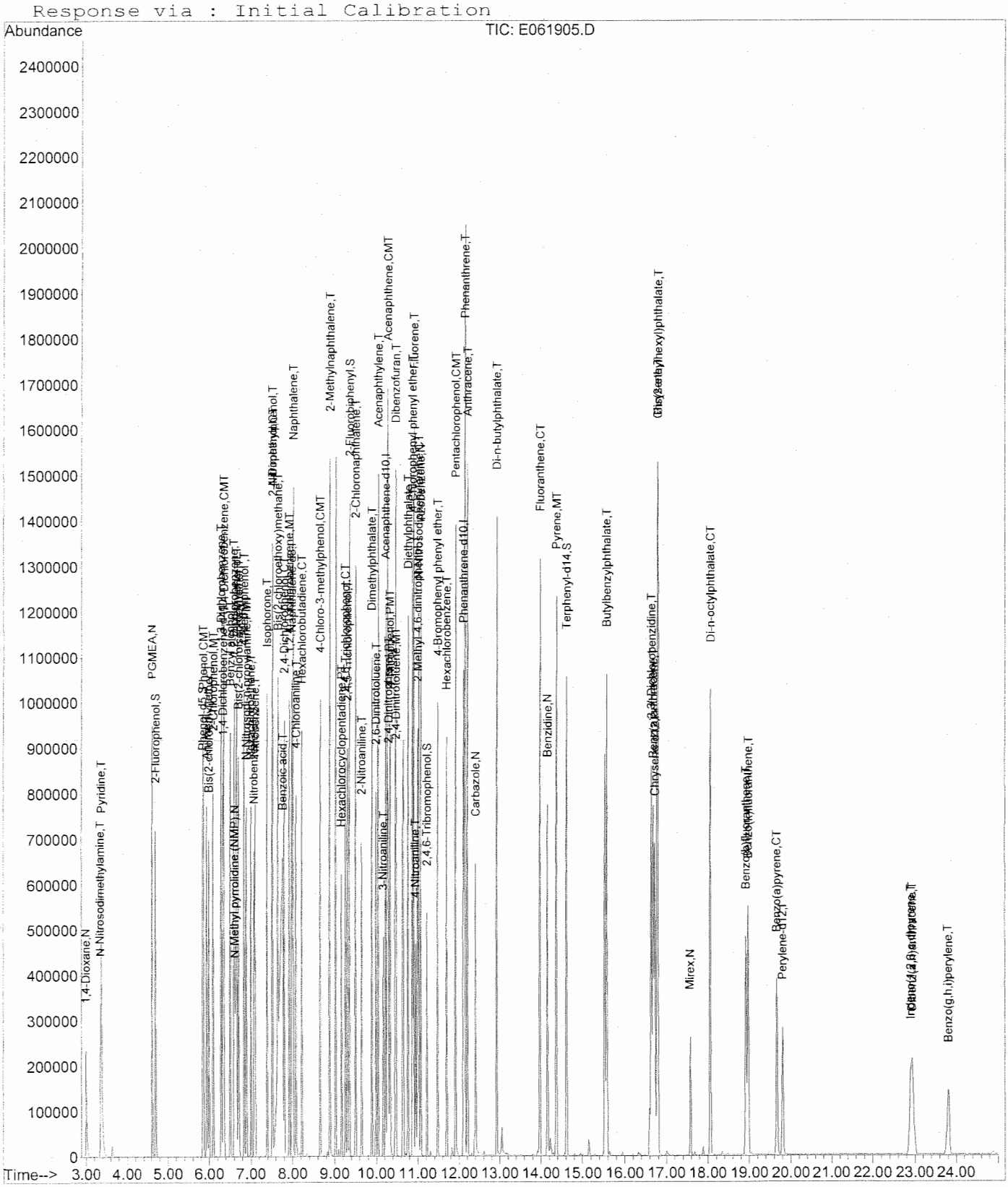
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.25	196	142232	52.16	mg/L		100
40)	2,4,5-Trichlorophenol	9.31	196	153980	52.12	mg/L		97
42)	2-Chloronaphthalene	9.50	162	457967	49.08	mg/L		99
43)	2-Nitroaniline	9.65	65	142539	49.70	mg/L		91
44)	Dimethylphthalate	9.89	163	524997	51.30	mg/L		97
45)	Acenaphthylene	10.04	152	748029	49.31	mg/L		99
46)	2,6-Dinitrotoluene	9.99	165	126245	52.76	mg/L		95
47)	3-Nitroaniline	10.17	138	97661	47.00	mg/L		87
48)	Acenaphthene	10.27	154	521712	52.17	mg/L		87
49)	2,4-Dinitrophenol	10.29	184	136237	95.38	mg/L	#	1
50)	4-Nitrophenol	10.34	109	137807	117.54	mg/L	#	58
51)	Dibenzofuran	10.47	168	665847	50.95	mg/L		96
52)	2,4-Dinitrotoluene	10.48	165	163307	53.42	mg/L	#	87
53)	Fluorene	10.90	166	550753	51.77	mg/L		99
54)	Diethylphthalate	10.76	149	545617	52.93	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.87	204	242276	52.75	mg/L		94
56)	4-Nitroaniline	10.95	138	105181	53.89	mg/L	#	89
58)	2-Methyl-4,6-dinitrophenol	10.99	198	172333	93.64	mg/L	#	86
59)	N-Nitrosodiphenylamine	11.02	169	332595	42.22	mg/L		92
60)	Azobenzene	11.07	77	531602	47.14	mg/L		96
62)	4-Bromophenyl phenyl ether	11.48	248	128647	44.39	mg/L		94
63)	Hexachlorobenzene	11.69	284	131584	43.13	mg/L		92
64)	Pentachlorophenol	11.92	266	181246	89.64	mg/L		99
65)	Phenanthrene	12.14	178	769187	49.81	mg/L		100
66)	Anthracene	12.20	178	765873	50.69	mg/L		100
67)	Carbazole	12.40	167	376311	48.89	mg/L		99
68)	Di-n-butylphthalate	12.93	149	941408	55.69	mg/L		99
69)	Fluoranthene	13.98	202	793558	60.31	mg/L	#	94
71)	Benzidine	14.16	184	443487	89.41	mg/L	#	97
72)	Pyrene	14.38	202	792196	46.75	mg/L		99
74)	Butylbenzylphthalate	15.58	149	394487	51.73	mg/L		97
75)	3,3'-Dichlorobenzidine	16.64	252	299171	102.60	mg/L	#	96
76)	Benz(a)anthracene	16.68	228	572097	50.23	mg/L		99
77)	Chrysene	16.77	228	527962	49.38	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.79	149	565307	57.12	mg/L		98
79)	Mirex	17.58	272	53118	24.93	mg/L		100
81)	Di-n-octylphthalate	18.06	149	830162	61.03	mg/L		100
82)	Benzo(b)fluoranthene	18.92	252	392187m	51.27	mg/L		
83)	Benzo(k)fluoranthene	18.98	252	383040	51.65	mg/L	#	94
84)	Benzo(a)pyrene	19.67	252	316765	52.56	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.89	276	246936	50.69	mg/L	#	46
86)	Dibenz(a,h)anthracene	22.93	278	216719	51.66	mg/L	#	90
87)	Benzo(g,h,i)perylene	23.81	276	197096	49.05	mg/L	#	62

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:15 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	-0.03
2	N	1,4-Dioxane	0.586	0.579	1.2	78	-0.02
3	T	N-Nitrosodimethylamine	0.762	0.784	-2.9	82	-0.02
4	T	Pyridine	1.520	1.510	0.7	78	-0.02
5	N	PGMEA	2.753	2.677	2.8	78	-0.02
6	S	2-Fluorophenol	1.274	1.250	1.9	76	-0.02
7	S	Phenol-d5	1.651	1.594	3.5	76	-0.03
8	CMT	Phenol	1.739	1.689	2.9#	76	-0.03
9	T	Aniline	2.014	1.958	2.8	74	-0.03
10	T	Bis(2-chloroethyl)ether	1.431	1.380	3.6	77	-0.03
11	MT	2-Chlorophenol	1.474	1.449	1.7	76	-0.03
12	T	1,3-Dichlorobenzene	1.613	1.606	0.4	79	-0.03
13	CMT	1,4-Dichlorobenzene	1.647	1.632	0.9#	79	-0.03
14	T	Benzyl alcohol	0.940	0.917	2.4	75	-0.03
15	T	1,2-Dichlorobenzene	1.537	1.539	-0.1	79	-0.03
16	N	N-Methyl pyrrolidine (NMP)	0.935	0.946	-1.2	78	-0.05
17	T	2-Methylphenol	1.293	1.258	2.7	76	-0.03
18	T	Bis(2-chloroisopropyl)ether	2.729	2.563	6.1	75	-0.03
19	T	4-Methylphenol	1.638	1.637	0.1	78	-0.03
20	PMT	N-Nitrosodi-n-propylamine	0.967	0.982	-1.6	78	-0.03
21	T	Hexachloroethane	0.606	0.615	-1.5	80	-0.03
22	I	Naphthalene-d8	1.000	1.000	0.0	77	-0.03
23	S	Nitrobenzene-d5	0.338	0.351	-3.8	78	-0.03
24	T	Nitrobenzene	0.355	0.368	-3.7	79	-0.03
25	T	Isophorone	0.637	0.670	-5.2	78	-0.03
26	CT	2-Nitrophenol	0.200	0.197	1.5#	77	-0.03
27	T	2,4-Dimethylphenol	0.324	0.332	-2.5	77	-0.03
28	T	Benzoic acid	0.213	0.215	-0.9	72	-0.05
29	T	Bis(2-chloroethoxy)methane	0.400	0.402	-0.5	77	-0.03
30	CT	2,4-Dichlorophenol	0.274	0.287	-4.7#	79	-0.03
31	MT	1,2,4-Trichlorobenzene	0.296	0.305	-3.0	79	-0.03
32	T	Naphthalene	1.048	1.053	-0.5	78	-0.03
33	T	4-Chloroaniline	0.366	0.391	-6.8	73	-0.03
34	CT	Hexachlorobutadiene	0.155	0.147	5.2#	72	-0.03
35	CMT	4-Chloro-3-methylphenol	0.280	0.298	-6.4#	78	-0.03
36	T	2-Methylnaphthalene	0.707	0.725	-2.5	79	-0.03
37	I	Acenaphthene-d10	1.000	1.000	0.0	80	-0.04
38	PT	Hexachlorocyclopentadiene	0.318	0.258	18.9	63	-0.03
39	CT	2,4,6-Trichlorophenol	0.329	0.344	-4.6#	81	-0.04
40	T	2,4,5-Trichlorophenol	0.357	0.372	-4.2	81	-0.03
41	S	2-Fluorobiphenyl	1.261	1.267	-0.5	80	-0.03
42	T	2-Chloronaphthalene	1.127	1.107	1.8	78	-0.03
43	T	2-Nitroaniline	0.347	0.344	0.9	76	-0.04
44	T	Dimethylphthalate	1.237	1.269	-2.6	81	-0.04
45	T	Acenaphthylene	1.833	1.808	1.4	78	-0.04
46	T	2,6-Dinitrotoluene	0.289	0.305	-5.5	81	-0.04
47	T	3-Nitroaniline	0.238	0.236	0.8	72	-0.03
48	CMT	Acenaphthene	1.208	1.261	-4.4#	79	-0.04
49	PT	2,4-Dinitrophenol	0.173	0.165	4.6	74	-0.04
50	PMT	4-Nitrophenol	0.142	0.167	-17.6	90	-0.04
51	T	Dibenzofuran	1.579	1.609	-1.9	81	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	MT	2,4-Dinitrotoluene	0.369	0.395	-7.0	82	-0.04
53	T	Fluorene	1.285	1.331	-3.6	82	-0.04
54	T	Diethylphthalate	1.246	1.319	-5.9	83	-0.04
55	T	4-Chlorophenyl phenyl ether	0.555	0.586	-5.6	84	-0.04
56	T	4-Nitroaniline	0.210	0.254	-21.0#	88	-0.04
57	I	Phenanthrene-d10	1.000	1.000	0.0	89	-0.05
58	T	2-Methyl-4,6-dinitrophenol	0.133	0.125	6.0	78	-0.04
59	CT	N-Nitrosodiphenylamine	0.571	0.482	15.6#	76	-0.04
60	N	Azobenzene	0.818	0.771	5.7	83	-0.04
61	S	2,4,6-Tribromophenol	0.096	0.087	9.4	76	-0.04
62	T	4-Bromophenyl phenyl ether	0.210	0.187	11.0	78	-0.04
63	T	Hexachlorobenzene	0.221	0.191	13.6	76	-0.05
64	CMT	Pentachlorophenol	0.147	0.131	10.9#	75	-0.04
65	T	Phenanthrene	1.120	1.115	0.4	89	-0.05
66	T	Anthracene	1.095	1.111	-1.5	89	-0.05
67	N	Carbazole	0.702	0.546	22.2#	91	-0.05
68	T	Di-n-butylphthalate	1.226	1.365	-11.3	94	-0.05
69	CT	Fluoranthene	0.954	1.151	-20.6#	106	-0.06
70	I	Chrysene-d12	1.000	1.000	0.0	129	-0.07
71	N	Benzidine	0.506	0.452	10.7	120	-0.06
72	MT	Pyrene	1.729	1.616	6.5	111	-0.06
73	S	Terphenyl-d14	1.118	0.957	14.4	101	-0.07
74	T	Butylbenzylphthalate	0.778	0.805	-3.5	119	-0.07
75	T	3,3'-Dichlorobenzidine	0.294	0.305	-3.7	142	-0.07
76	T	Benz(a)anthracene	1.162	1.167	-0.4	127	-0.07
77	T	Chrysene	1.091	1.077	1.3	129	-0.07
78	T	Bis(2-ethylhexyl)phthalate	1.010	1.153	-14.2	128	-0.08
79	N	Mirex	0.217	0.217	0.0	112	-0.08
80	I	Perylene-d12	1.000	1.000	0.0	147	-0.11
81	CT	Di-n-octylphthalate	2.579	3.148	-22.1#	136	-0.08
82	T	Benzo(b)fluoranthene	1.451	1.487	-2.5	144	-0.09
83	T	Benzo(k)fluoranthene	1.406	1.453	-3.3	151#	-0.10
84	CT	Benzo(a)pyrene	1.143	1.201	-5.1#	151#	-0.11
85	T	Indeno(1,2,3-c,d)pyrene	0.924	0.936	-1.3	156#	-0.18
86	T	Dibenz(a,h)anthracene	0.795	0.822	-3.4	158#	-0.18
87	T	Benzo(g,h,i)perylene	0.762	0.747	2.0	152#	-0.19

(#) = Out of Range SPCC's out = 0 CCC's out = 13

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:12:38 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	148047	40.00	mg/L	-0.03
22) Naphthalene-d8	7.99	136	575551	40.00	mg/L	-0.03
37) Acenaphthene-d10	10.23	164	331024	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.11	188	551719	40.00	mg/L	-0.05
70) Chrysene-d12	16.72	240	392104	40.00	mg/L	-0.07
80) Perylene-d12	19.80	264	210954	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.71	112	231328	49.08	mg/L	-0.02
Spiked Amount 50.000			Recovery = 98.16%			
7) Phenol-d5	5.84	99	295043	48.30	mg/L	-0.03
Spiked Amount 50.000			Recovery = 96.60%			
23) Nitrobenzene-d5	7.08	82	252581	51.94	mg/L	-0.03
Spiked Amount 50.000			Recovery = 103.88%			
41) 2-Fluorobiphenyl	9.35	172	524362	50.24	mg/L	-0.03
Spiked Amount 50.000			Recovery = 100.48%			
61) 2,4,6-Tribromophenol	11.22	330	59816	45.20	mg/L	-0.04
Spiked Amount 50.000			Recovery = 90.40%			
73) Terphenyl-d14	14.62	244	469261	42.82	mg/L	-0.07
Spiked Amount 50.000			Recovery = 85.64%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	107126	49.41	mg/L #	78
3) N-Nitrosodimethylamine	3.35	42	145084	51.46	mg/L	85
4) Pyridine	3.37	79	279362	49.65	mg/L #	63
5) PGMEA	4.62	43	495447	48.62	mg/L #	88
8) Phenol	5.86	94	312616	48.57	mg/L	92
9) Aniline	5.95	93	362324	48.62	mg/L	98
10) Bis(2-chloroethyl)ether	6.00	93	255398	48.23	mg/L	96
11) 2-Chlorophenol	6.10	128	268087	49.14	mg/L	99
12) 1,3-Dichlorobenzene	6.29	146	297214	49.78	mg/L	99
13) 1,4-Dichlorobenzene	6.35	146	302097	49.55	mg/L	99
14) Benzyl alcohol	6.51	108	169728	48.79	mg/L #	79
15) 1,2-Dichlorobenzene	6.60	146	284819	50.07	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.62	99	175103	50.60	mg/L	99
17) 2-Methylphenol	6.66	108	232877	48.65	mg/L	100
18) Bis(2-chloroisopropyl)ethe	6.70	45	474275	46.96	mg/L #	81
19) 4-Methylphenol	6.84	107	302879	49.97	mg/L #	94
20) N-Nitrosodi-n-propylamine	6.89	70	181794	50.80	mg/L #	75
21) Hexachloroethane	7.00	117	113837	50.75	mg/L #	80
24) Nitrobenzene	7.11	77	264697	51.79	mg/L #	82
25) Isophorone	7.39	82	482374	52.64	mg/L	94
26) 2-Nitrophenol	7.51	139	141721	49.24	mg/L #	87
27) 2,4-Dimethylphenol	7.52	122	238526	51.17	mg/L	84
28) Benzoic acid	7.77	122	775067	252.75	mg/L #	84
29) Bis(2-chloroethoxy)methane	7.65	93	289348	50.25	mg/L #	91
30) 2,4-Dichlorophenol	7.80	162	206689	52.34	mg/L	98
31) 1,2,4-Trichlorobenzene	7.92	180	219091	51.51	mg/L	99
32) Naphthalene	8.01	128	757828	50.26	mg/L	100
33) 4-Chloroaniline	8.08	127	280974	53.32	mg/L	95
34) Hexachlorobutadiene	8.22	225	106082	47.42	mg/L	99
35) 4-Chloro-3-methylphenol	8.66	107	214240	53.10	mg/L	93
36) 2-Methylnaphthalene	8.88	142	521650	51.25	mg/L	99
38) Hexachlorocyclopentadiene	9.16	237	106582	40.47	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:12:38 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

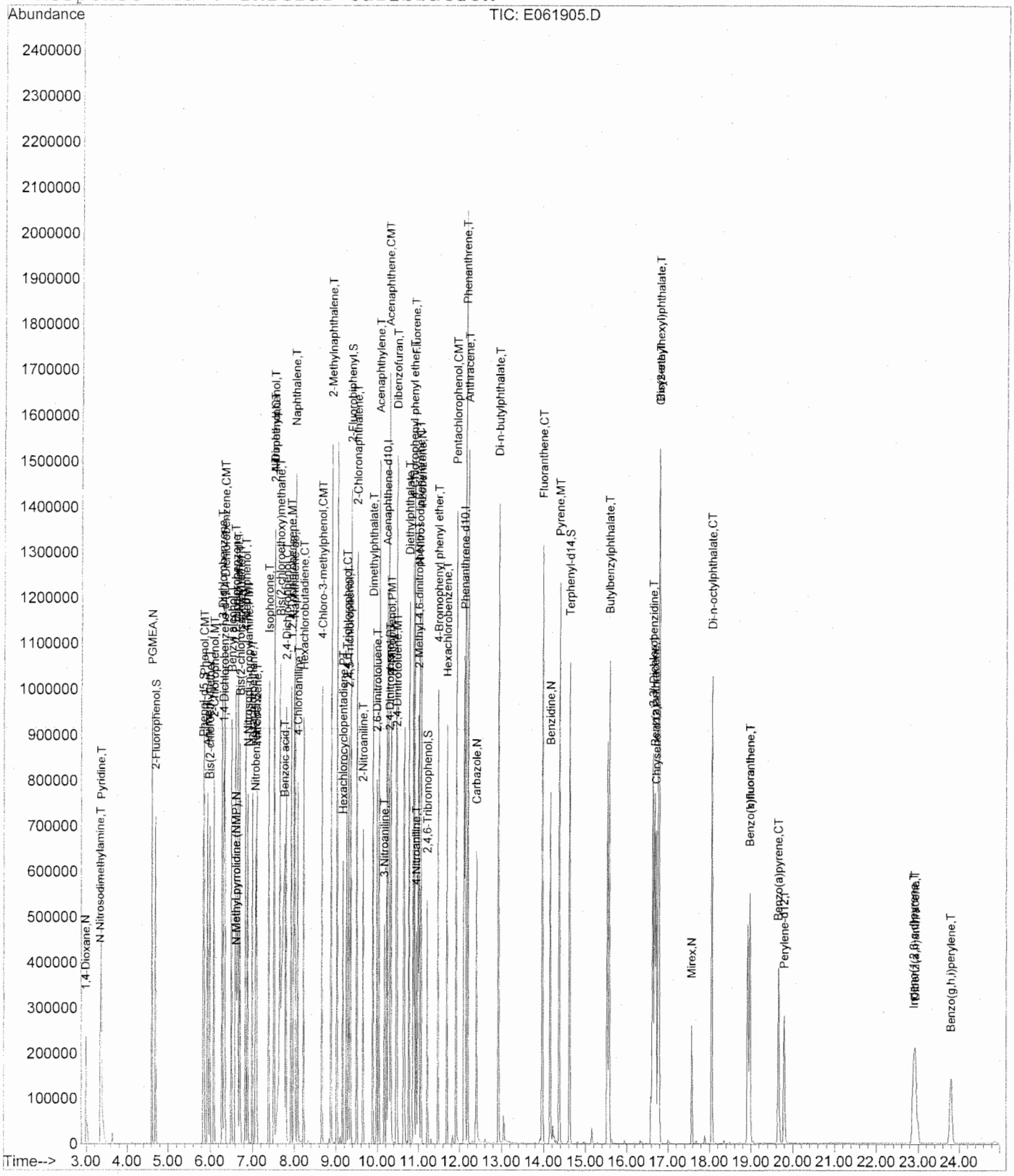
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.25	196	142232	52.16	mg/L		100
40)	2,4,5-Trichlorophenol	9.31	196	153980	52.12	mg/L		97
42)	2-Chloronaphthalene	9.50	162	457967	49.08	mg/L		99
43)	2-Nitroaniline	9.65	65	142539	49.70	mg/L		91
44)	Dimethylphthalate	9.89	163	524997	51.30	mg/L		97
45)	Acenaphthylene	10.04	152	748029	49.31	mg/L		99
46)	2,6-Dinitrotoluene	9.99	165	126245	52.76	mg/L		95
47)	3-Nitroaniline	10.17	138	97661	47.00	mg/L		87
48)	Acenaphthene	10.27	154	521712	52.17	mg/L		87
49)	2,4-Dinitrophenol	10.29	184	136237	95.38	mg/L	#	1
50)	4-Nitrophenol	10.34	109	137807	117.54	mg/L	#	58
51)	Dibenzofuran	10.47	168	665847	50.95	mg/L		96
52)	2,4-Dinitrotoluene	10.48	165	163307	53.42	mg/L	#	87
53)	Fluorene	10.90	166	550753	51.77	mg/L		99
54)	Diethylphthalate	10.76	149	545617	52.93	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.87	204	242276	52.75	mg/L		94
56)	4-Nitroaniline	10.95	138	105181	53.89	mg/L	#	89
58)	2-Methyl-4,6-dinitrophenol	10.99	198	172333	93.64	mg/L	#	86
59)	N-Nitrosodiphenylamine	11.02	169	332595	42.22	mg/L		92
60)	Azobenzene	11.07	77	531602	47.14	mg/L		96
62)	4-Bromophenyl phenyl ether	11.48	248	128647	44.39	mg/L		94
63)	Hexachlorobenzene	11.69	284	131584	43.13	mg/L		92
64)	Pentachlorophenol	11.92	266	181246	89.64	mg/L		99
65)	Phenanthrene	12.14	178	769187	49.81	mg/L		100
66)	Anthracene	12.20	178	765873	50.69	mg/L		100
67)	Carbazole	12.40	167	376311	48.89	mg/L		99
68)	Di-n-butylphthalate	12.93	149	941408	55.69	mg/L		99
69)	Fluoranthene	13.98	202	793558	60.31	mg/L	#	94
71)	Benzidine	14.16	184	443487	89.41	mg/L	#	97
72)	Pyrene	14.38	202	792196	46.75	mg/L		99
74)	Butylbenzylphthalate	15.58	149	394487	51.73	mg/L		97
75)	3,3'-Dichlorobenzidine	16.64	252	299171	102.60	mg/L	#	96
76)	Benz(a)anthracene	16.68	228	572097	50.23	mg/L		99
77)	Chrysene	16.77	228	527962	49.38	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.79	149	565307	57.12	mg/L		98
79)	Mirex	17.58	272	53118	24.93	mg/L		100
81)	Di-n-octylphthalate	18.06	149	830162	61.03	mg/L		100
82)	Benzo(b)fluoranthene	18.98	252	383040	50.07	mg/L	#	94
83)	Benzo(k)fluoranthene	18.98	252	383040	51.65	mg/L	#	94
84)	Benzo(a)pyrene	19.67	252	316765	52.56	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.89	276	246936	50.69	mg/L	#	46
86)	Dibenz(a,h)anthracene	22.93	278	216719	51.66	mg/L	#	90
87)	Benzo(g,h,i)perylene	23.81	276	197096	49.05	mg/L	#	62

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:12 2006 Quant Results File: BA061226.RES

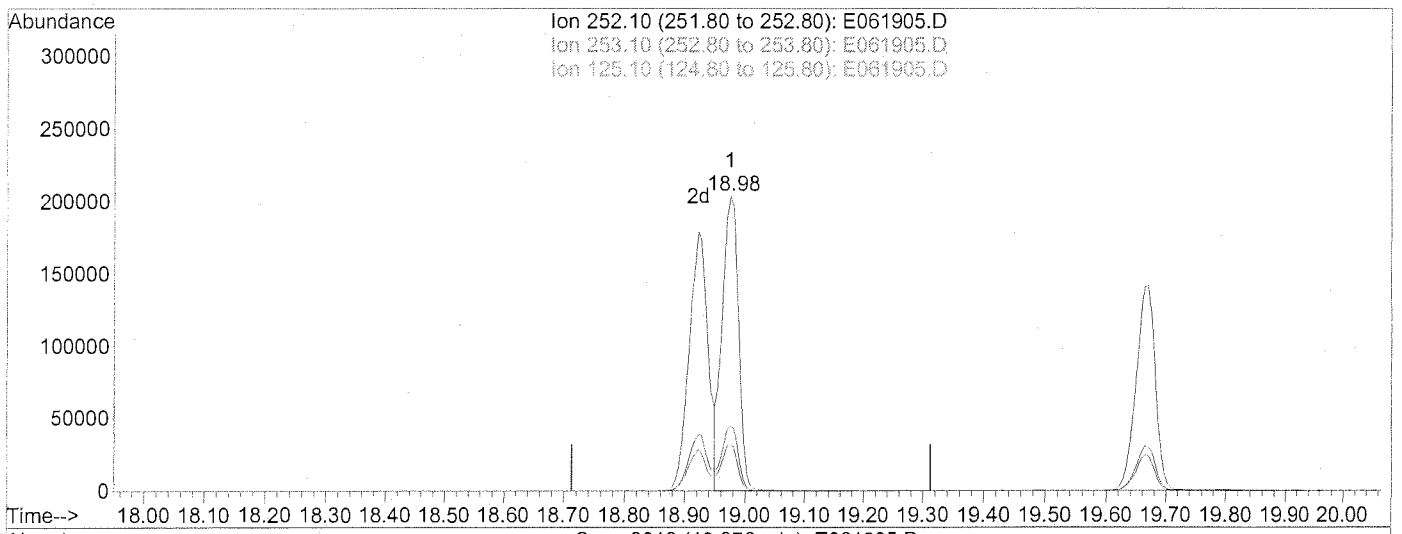
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

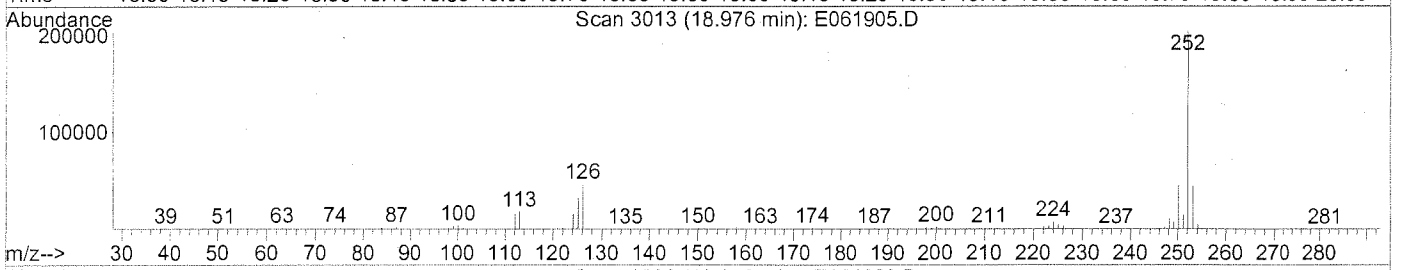


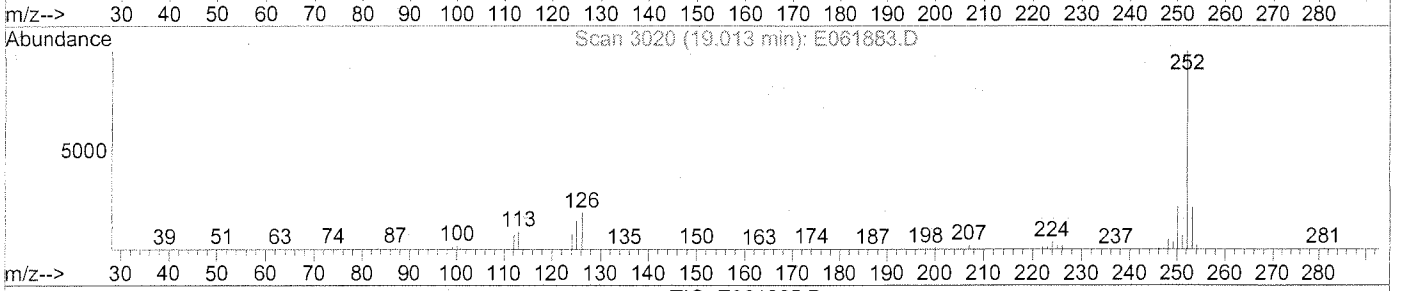
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:12 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061905.D

(82) Benzo(b)fluoranthene (T)

18.98min 50.07mg/L

response 383040

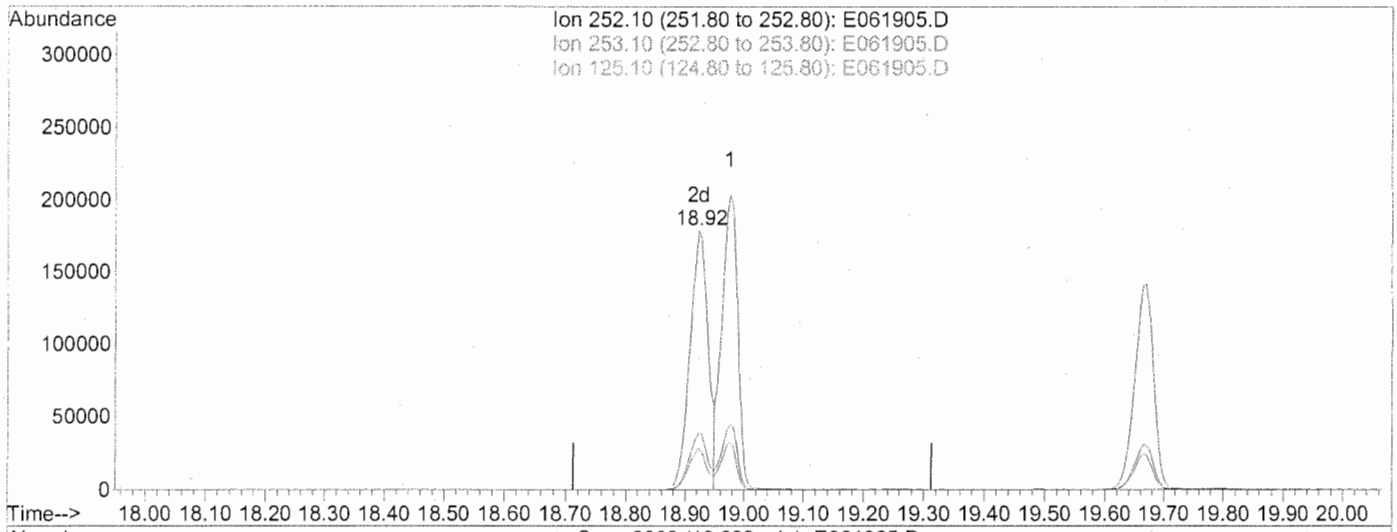
Ion	Exp%	Act%
252.10	100	100
253.10	22.10	21.83
125.10	7.90	15.49#
0.00	0.00	0.00

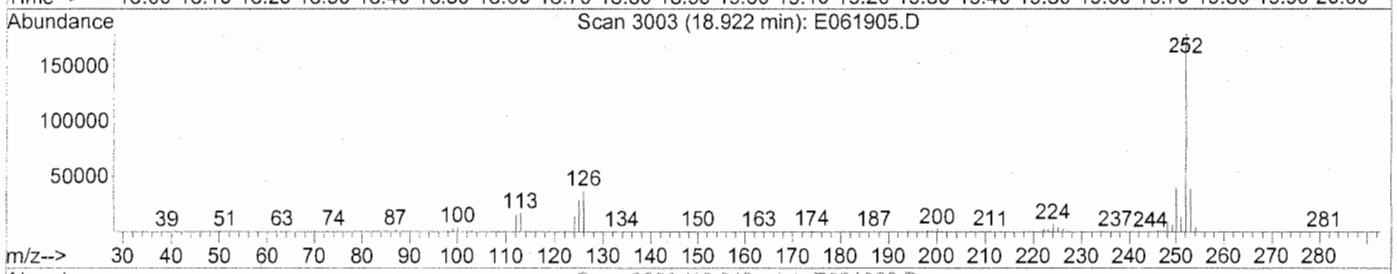
bef.

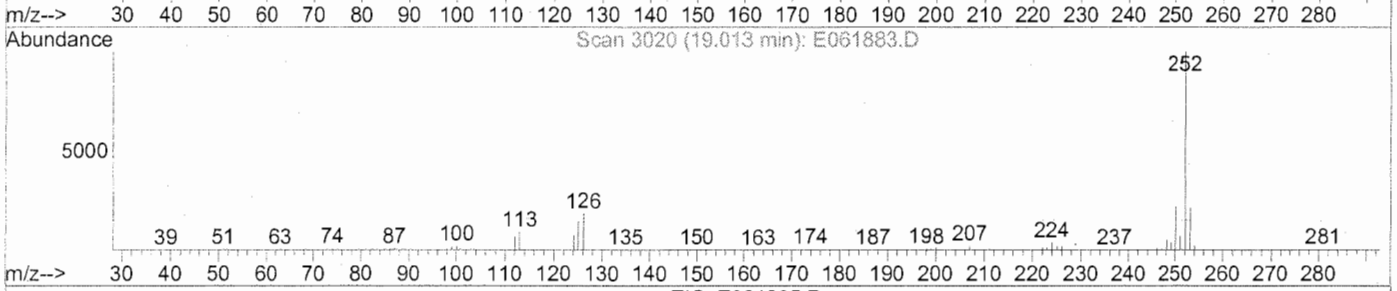
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061905.D Vial: 2
Acq On : 29 Dec 2006 1:46 pm Operator: SC
Sample : 50PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:15 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061905.D

(82) Benzo(b)fluoranthene (T)

18.92min 51.27mg/L m

response 392187

Ion	Exp%	Act%
252.10	100	100
253.10	22.10	21.32
125.10	7.90	15.13#
0.00	0.00	0.00

Aft.
- wrong peak
12/29/06

DM 12/30/06

QC Sample Data

(Batch ID.: DWG0700103)

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/02/2007

Analysis Lot:	DWG0700100	**Prep Lot:**	DWG0700103	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76023	**Prep Date:**	12/26/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D	**Method ID:**	MJ360
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 14:31	**Quant Date:**	12/29/2006 15:05	**Vial:**	3
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0700103-4			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.33	0.00?	152	156066	40.00	OK
2	Naphthalene-d8	7.98	-0.01?	136	607270	40.00	OK
3	Acenaphthene-d10	10.23	0.00?	164	333923	40.00	OK
4	Phenanthrene-d10	12.11	0.00?	188	519672	40.00	OK
5	Chrysene-d12	16.72	0.00?	240	382598	40.00	OK
6	Perylene-d12	19.81	0.01?	264	280590	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.70	-0.01	0.00	112	228080	45.90	92	23-115	OK	
1	Phenol-d5	5.84	0.00	0.00	99	305677	47.46	95	23-121	OK	
2	Nitrobenzene-d5	7.07	-0.01	0.00	82	274920	53.58	107	42-122	OK	
3	2-Fluorobiphenyl	9.35	0.00	0.00	172	551869	52.41	105	47-110	OK	
4	2,4,6-Tribromophenol	11.22	0.00	0.00	330	53372	42.82	86	31-112	OK	
5	Terphenyl-d14	14.62	0.00	0.00	244	486237	45.47	91	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	PGMEA				43	0d		0.35	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 14:31	**Quant Date:**	12/29/2006 15:05	**Vial:**	3
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0700103-4			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol				108	0		0.22	U	
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	1-Methyl-2-pyrrolidinone				99	0		0.19	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0		0.83	U	
2	Benzoic acid				122	0		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0**d**		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	Azobenzene				77	0		0.25	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 14:31	**Quant Date:**	12/29/2006 15:05	**Vial:**	3
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0700103-4			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	
4	Anthracene				178	0		0.21	U	
4	Carbazole				167	0		0.28	U	
4	Di-n-butyl Phthalate				149	0d		0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Benzidine				184	0		25	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0d		0.48	U	
5	3,3'-Dichlorobenzidine				252	0d		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0d		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.79		0.00	149	7830	0.8100	0.810	J	
5	Mirex				272	0		0.21	U	
6	Di-n-octyl Phthalate				149	0d		0.33	U	
6	Benzo(b)fluoranthene				252	0d		0.42	U	
6	Benzo(k)fluoranthene				252	0d		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0d		0.62	U	
6	Benzo(g,h,i)perylene				276	0d		0.74	U	

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061906.D Vial: 3
Acq On : 29 Dec 2006 2:31 pm Operator: GJ
Sample : MB 8270 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:59:32 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

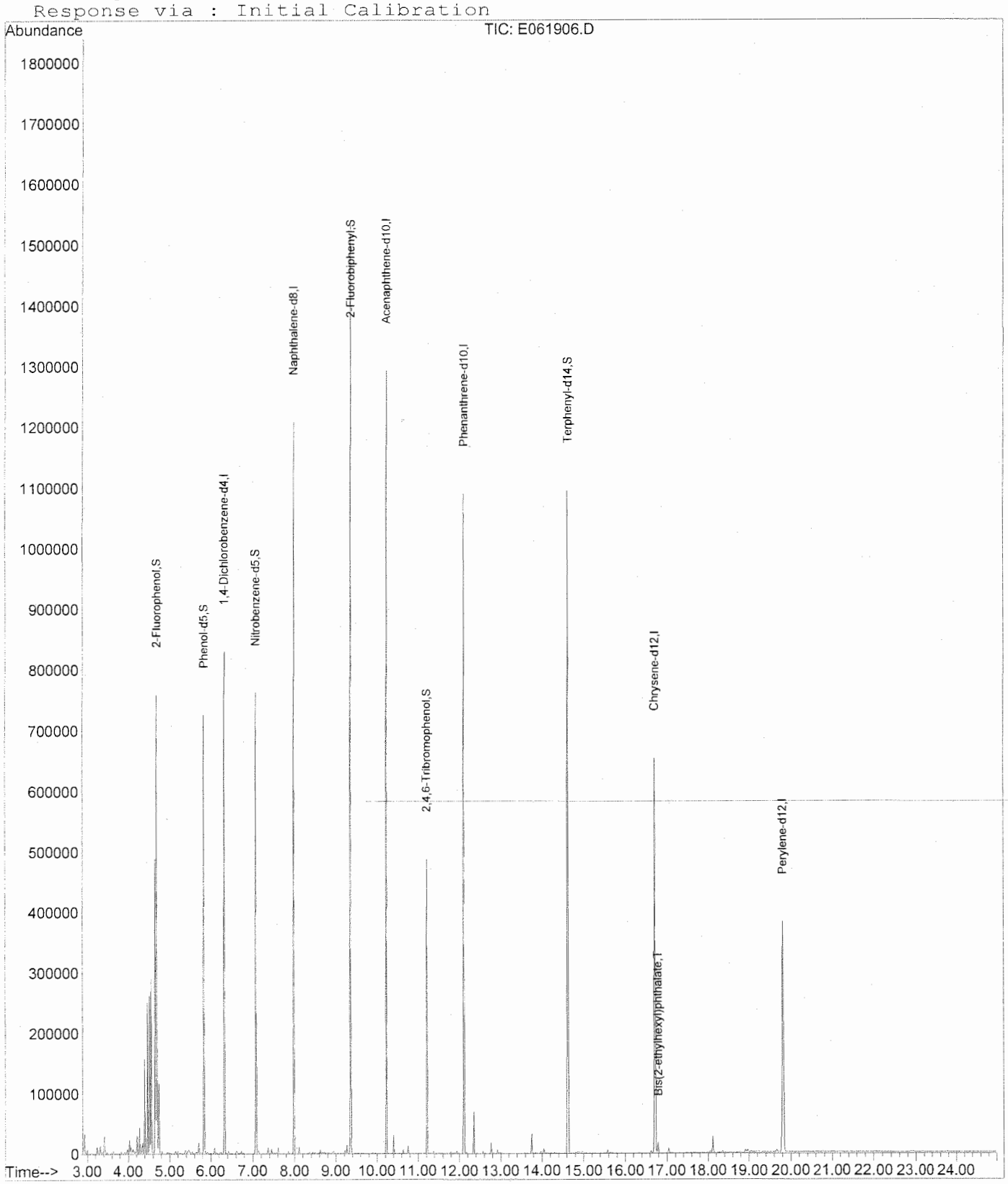
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	156066	40.00 mg/L	-0.03
22) Naphthalene-d8	7.98	136	607270	40.00 mg/L	-0.04
37) Acenaphthene-d10	10.23	164	333923	40.00 mg/L	-0.04
57) Phenanthrene-d10	12.11	188	519672	40.00 mg/L	-0.05
70) Chrysene-d12	16.72	240	382598	40.00 mg/L	-0.07
80) Perylene-d12	19.81	264	280590	40.00 mg/L	-0.10
System Monitoring Compounds					
6) 2-Fluorophenol	4.70	112	228080	45.90 mg/L	-0.03
Spiked Amount 50.000			Recovery =	91.80%	
7) Phenol-d5	5.84	99	305677	47.46 mg/L	-0.03
Spiked Amount 50.000			Recovery =	94.92%	
23) Nitrobenzene-d5	7.07	82	274920	53.58 mg/L	-0.03
Spiked Amount 50.000			Recovery =	107.16%	
41) 2-Fluorobiphenyl	9.35	172	551869	52.41 mg/L	-0.03
Spiked Amount 50.000			Recovery =	104.82%	
61) 2,4,6-Tribromophenol	11.22	330	53372	42.82 mg/L	-0.04
Spiked Amount 50.000			Recovery =	85.64%	
73) Terphenyl-d14	14.62	244	486237	45.47 mg/L	-0.06
Spiked Amount 50.000			Recovery =	90.94%	
Target Compounds					Qvalue
67) Carbazole	12.35	167	1080	~~Below Cal~~ #	59
78) Bis(2-ethylhexyl)phthalate	16.79	149	7830	0.81 mg/L #	97

12/29/06

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061906.D Vial: 3
Acq On : 29 Dec 2006 2:31 pm Operator: GJ
Sample : MB 8270 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 15:05 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061906.D Vial: 3
Acq On : 29 Dec 2006 2:31 pm Operator: GJ
Sample : MB 8270 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:59:32 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

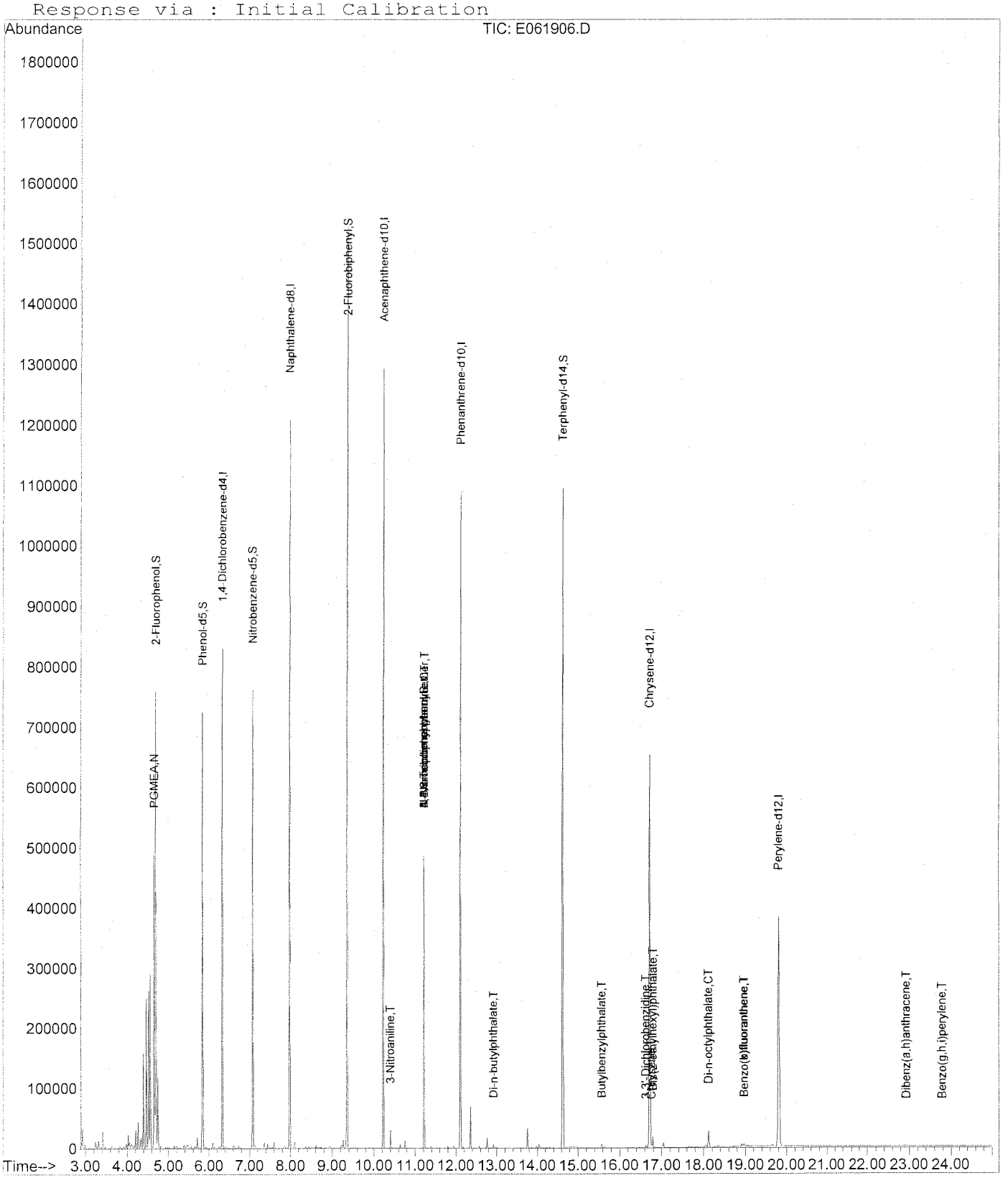
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	156066	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	607270	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	333923	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.11	188	519672	40.00	mg/L	-0.05
70) Chrysene-d12	16.72	240	382598	40.00	mg/L	-0.07
80) Perylene-d12	19.81	264	280590	40.00	mg/L	-0.10
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	228080	45.90	mg/L	-0.03
Spiked Amount 50.000			Recovery =	91.80%		
7) Phenol-d5	5.84	99	305677	47.46	mg/L	-0.03
Spiked Amount 50.000			Recovery =	94.92%		
23) Nitrobenzene-d5	7.07	82	274920	53.58	mg/L	-0.03
Spiked Amount 50.000			Recovery =	107.16%		
41) 2-Fluorobiphenyl	9.35	172	551869	52.41	mg/L	-0.03
Spiked Amount 50.000			Recovery =	104.82%		
61) 2,4,6-Tribromophenol	11.22	330	53372	42.82	mg/L	-0.04
Spiked Amount 50.000			Recovery =	85.64%		
73) Terphenyl-d14	14.62	244	486237	45.47	mg/L	-0.06
Spiked Amount 50.000			Recovery =	90.94%		
Target Compounds						Qvalue
5) PGMEA	4.66	43	38068	3.54	mg/L #	67
47) 3-Nitroaniline	10.40	138	99	1.82	mg/L #	1
59) N-Nitrosodiphenylamine	11.21	169	2359	0.32	mg/L #	41
62) 4-Bromophenyl phenyl ether	11.22	248	3194	1.17	mg/L #	1
67) Carbazole	12.35	167	1080	Below Cal	#	59
68) Di-n-butylphthalate	12.92	149	4848	0.30	mg/L #	93
74) Butylbenzylphthalate	15.57	149	2583	0.35	mg/L #	96
75) 3,3'-Dichlorobenzidine	16.62	252	2113	1.22	mg/L #	91
77) Chrysene	16.76	228	2188	0.21	mg/L #	94
78) Bis(2-ethylhexyl)phthalate	16.79	149	7830	0.81	mg/L #	97
81) Di-n-octylphthalate	18.12	149	4078	0.23	mg/L #	75
82) Benzo(b)fluoranthene	18.97	252	3895	0.38	mg/L #	82
83) Benzo(k)fluoranthene	18.97	252	3895	0.39	mg/L #	81
86) Dibenz(a,h)anthracene	22.92	278	1221	0.22	mg/L #	56
87) Benzo(g,h,i)perylene	23.78	276	1169	0.22	mg/L #	59

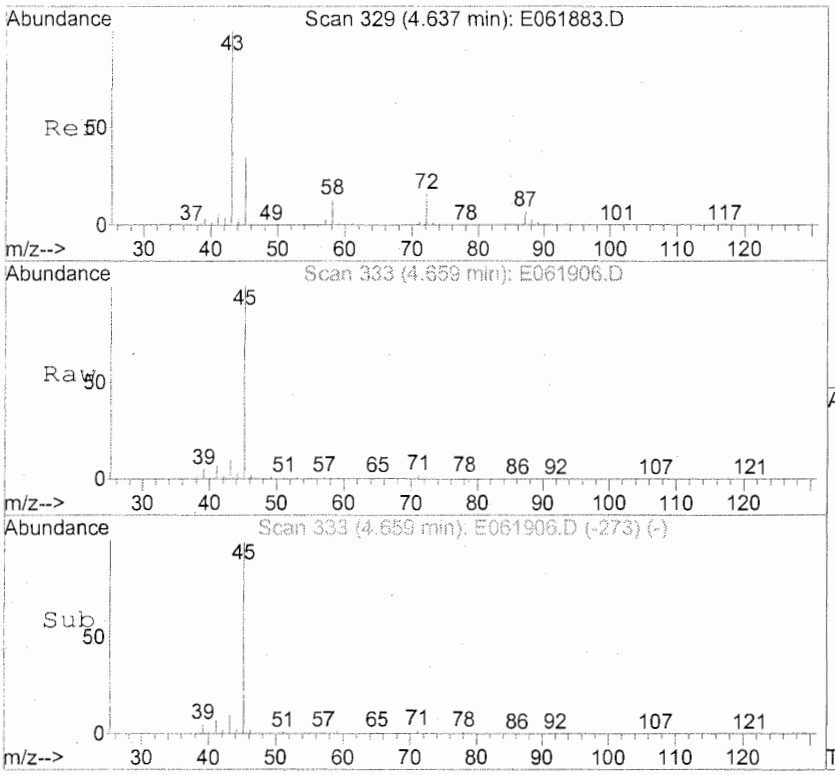
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061906.D Vial: 3
Acq On : 29 Dec 2006 2:31 pm Operator: GJ
Sample : MB 8270 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:59 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

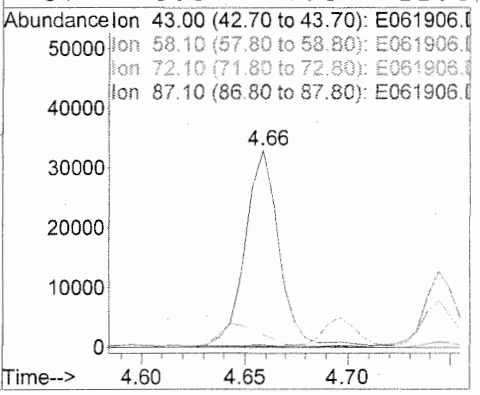


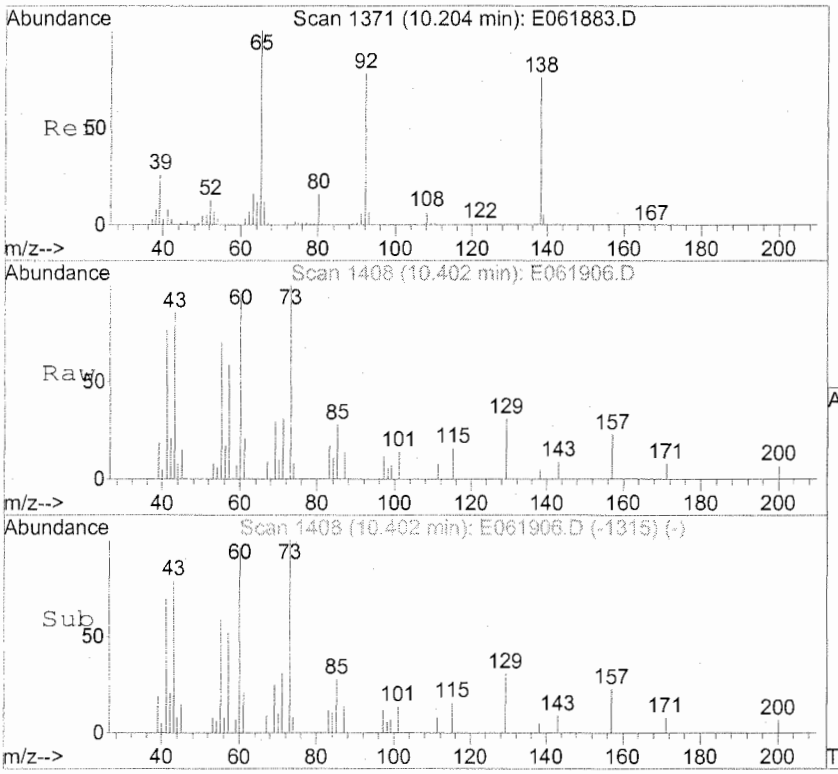


#5
PGMEA
Concen: 3.54 mg/L
RT: 4.66 min Scan# 333
Delta R.T. 0.02 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion: 43 Resp: 38068

Ion	Ratio	Lower	Upper
43	100		
58	14.6	9.7	14.5#
72	0.8	20.4	30.6#
87	0.0	7.6	11.4#

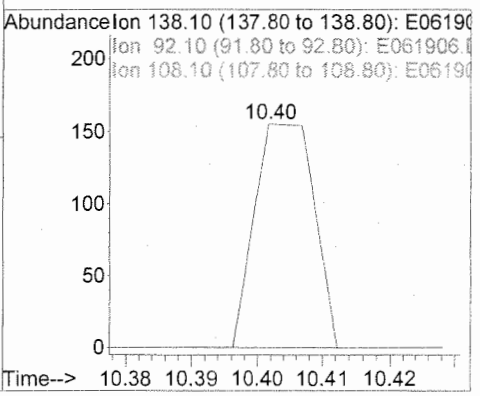


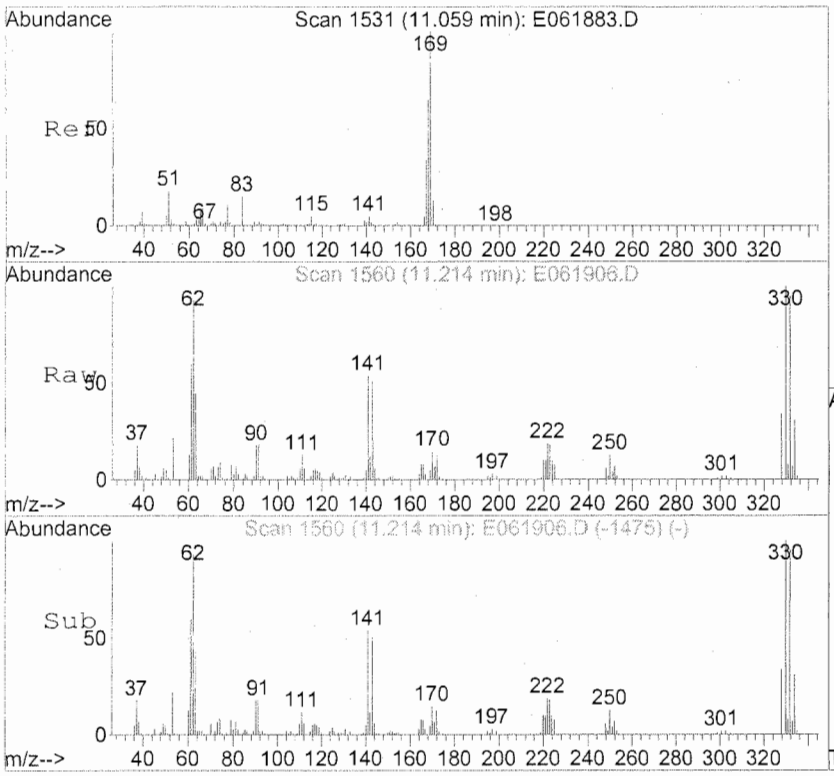


#47
3-Nitroaniline
Concen: 1.82 mg/L
RT: 10.40 min Scan# 1408
Delta R.T. 0.20 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:138 Resp: 99

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

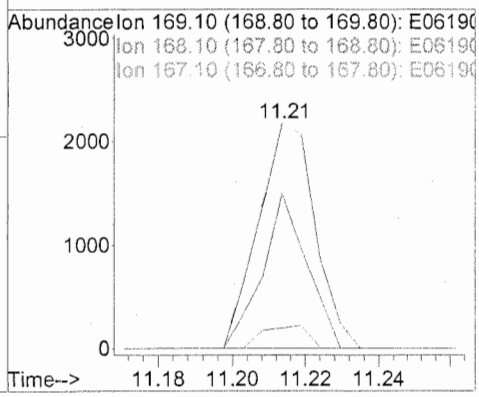


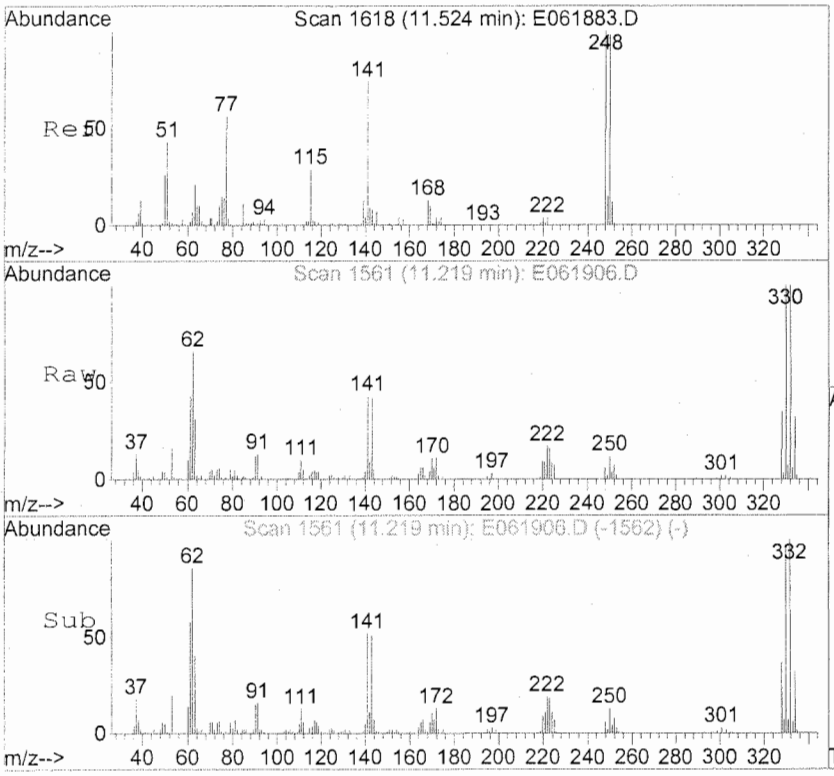


#59
N-Nitrosodiphenylamine
Concen: 0.32 mg/L
RT: 11.21 min Scan# 1560
Delta R.T. 0.15 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:169 Resp: 2359

Ion	Ratio	Lower	Upper
169	100		
168	8.1	50.8	76.2#
167	54.3	27.0	40.4#

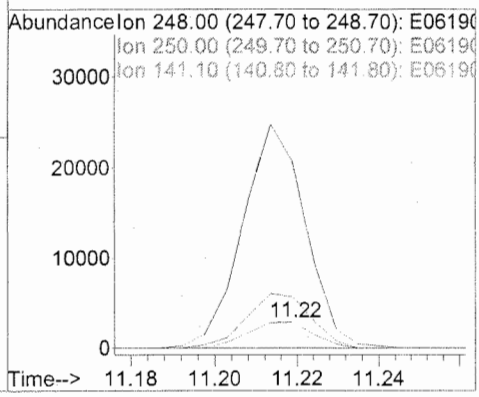


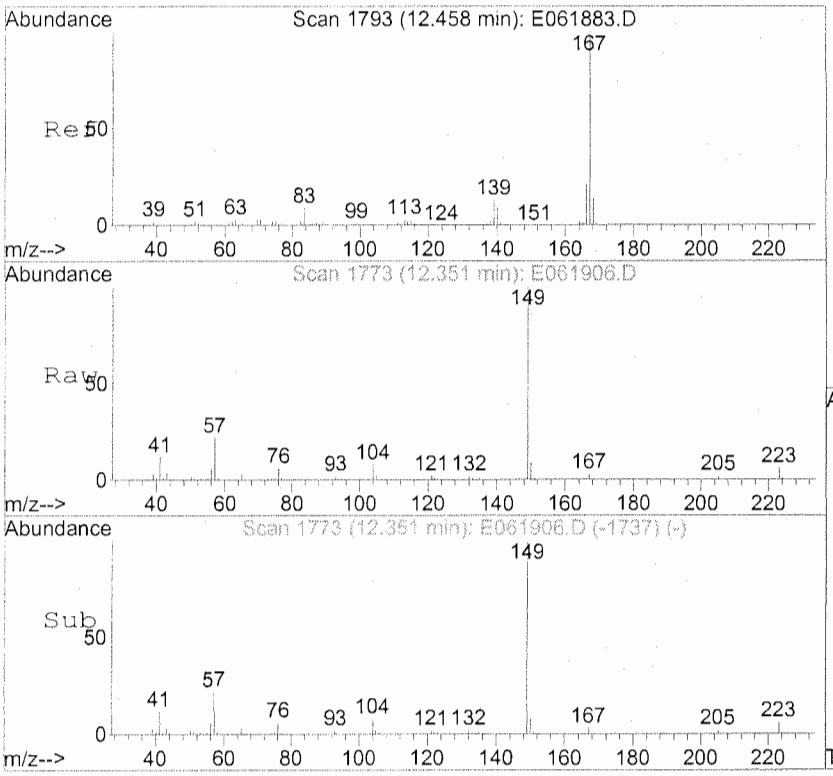


#62
4-Bromophenyl phenyl ether
Concen: 1.17 mg/L
RT: 11.22 min Scan# 1561
Delta R.T. -0.30 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:248 Resp: 3194

Ion	Ratio	Lower	Upper
248	100		
250	207.2	79.0	118.4#
141	828.8	64.3	96.5#

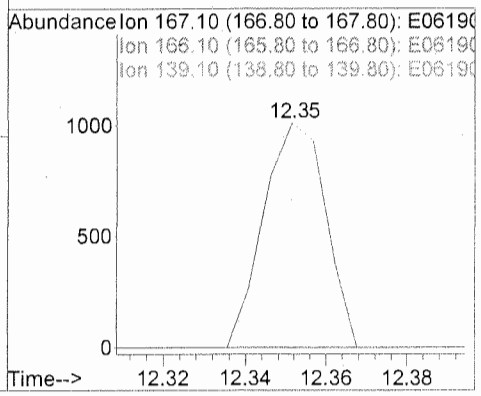


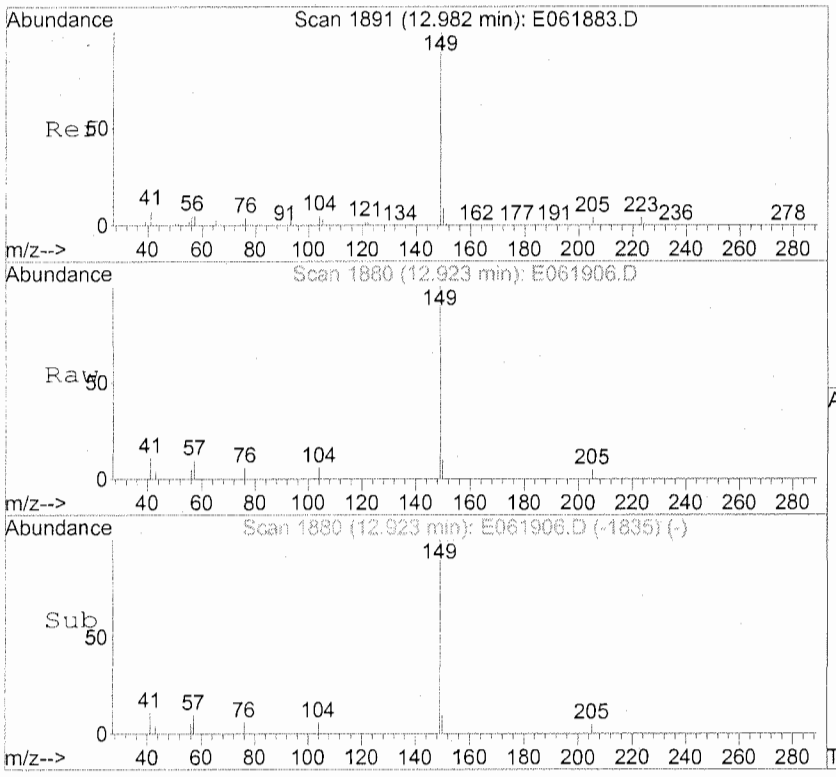


#67
Carbazole
Concen: Below Cal
RT: 12.35 min Scan# 1773
Delta R.T. -0.11 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:167 Resp: 1080

Ion	Ratio	Lower	Upper
167	100		
166	0.0	17.2	25.8#
139	0.0	10.6	16.0#

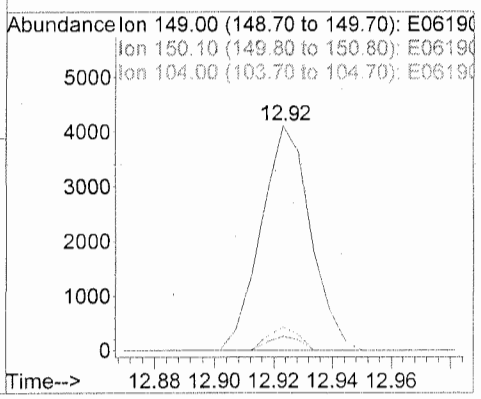


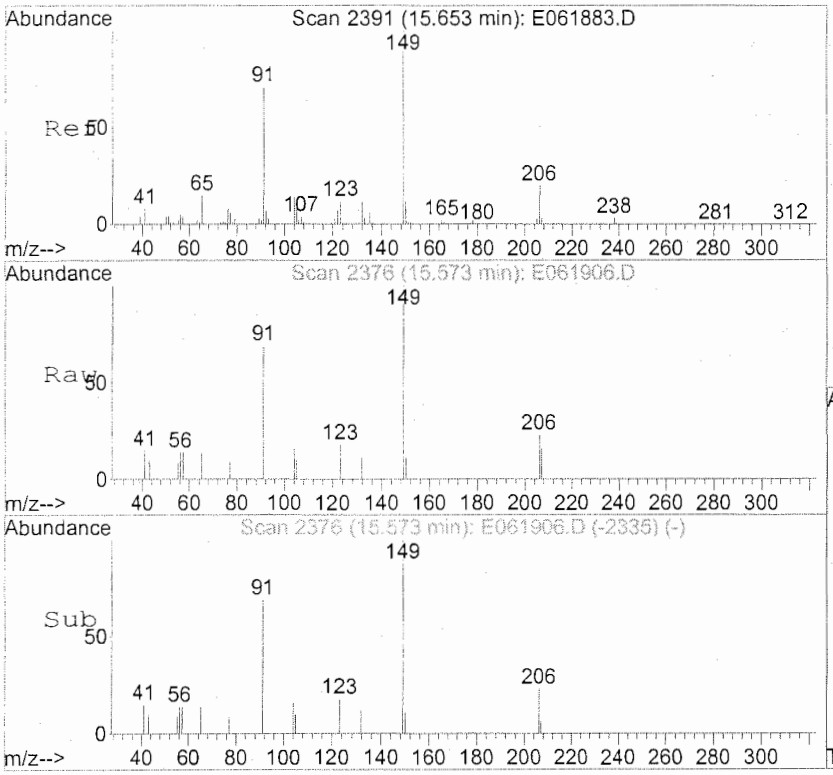


#68
Di-n-butylphthalate
Concen: 0.30 mg/L
RT: 12.92 min Scan# 1880
Delta R.T. -0.06 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:149 Resp: 4848

Ion	Ratio	Lower	Upper
149	100		
150	6.5	7.3	10.9#
104	4.0	4.6	7.0#

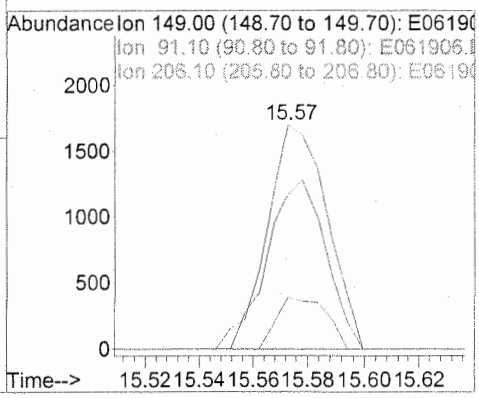


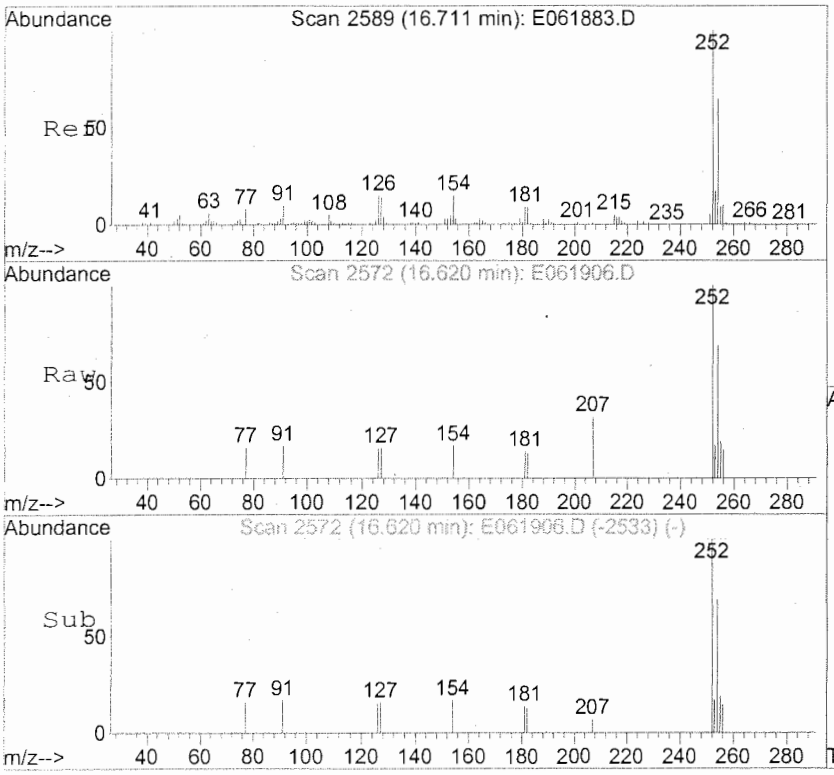


#74
Butylbenzylphthalate
Concen: 0.35 mg/L
RT: 15.57 min Scan# 2376
Delta R.T. -0.08 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:149 Resp: 2583

Ion	Ratio	Lower	Upper
149	100		
91	72.4	59.4	89.0
206	18.8	19.0	28.6#

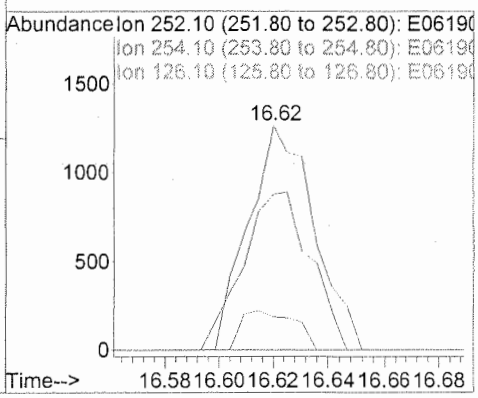


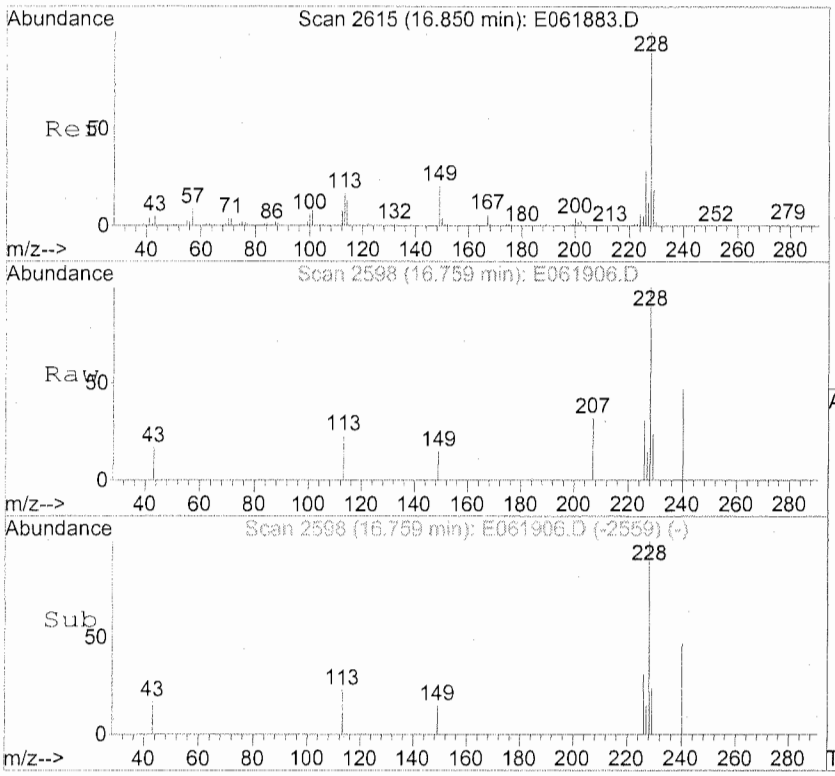


#75
3,3'-Dichlorobenzidine
Concen: 1.22 mg/L
RT: 16.62 min Scan# 2572
Delta R.T. -0.09 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:252 Resp: 2113

Ion	Ratio	Lower	Upper
252	100		
254	72.4	52.6	79.0
126	14.4	8.2	12.2#

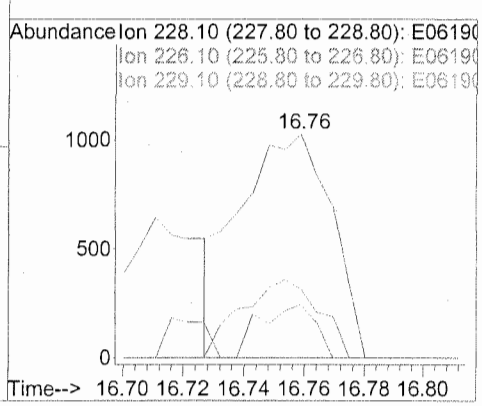


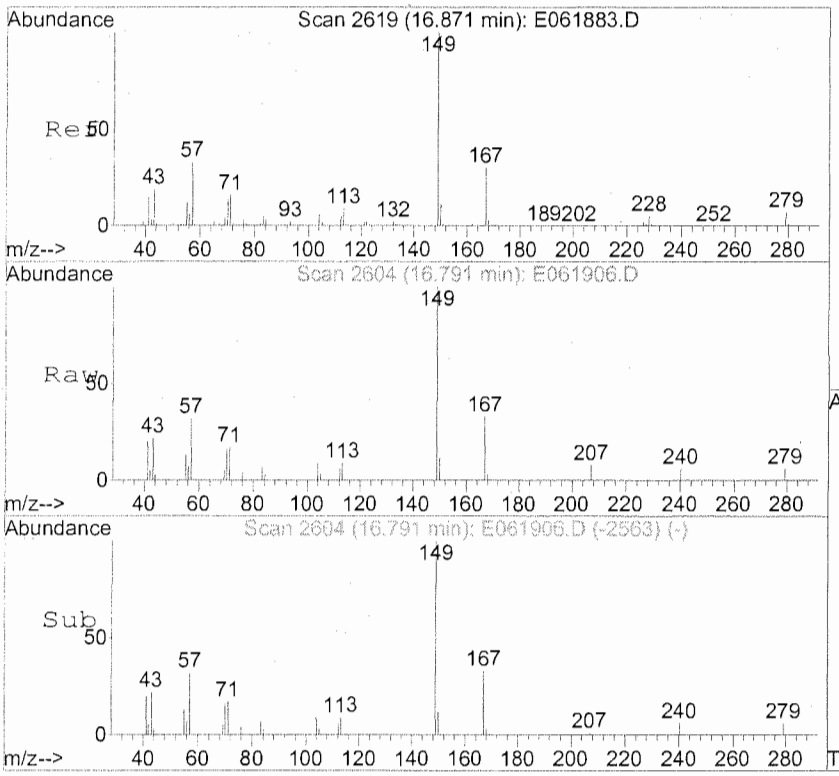


#77
Chrysene
Concen: 0.21 mg/L
RT: 16.76 min Scan# 2598
Delta R.T. -0.09 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:228 Resp: 2188

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.8	34.2
229	14.2	15.7	23.5#

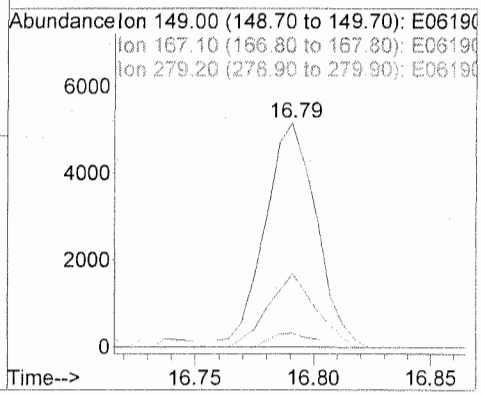


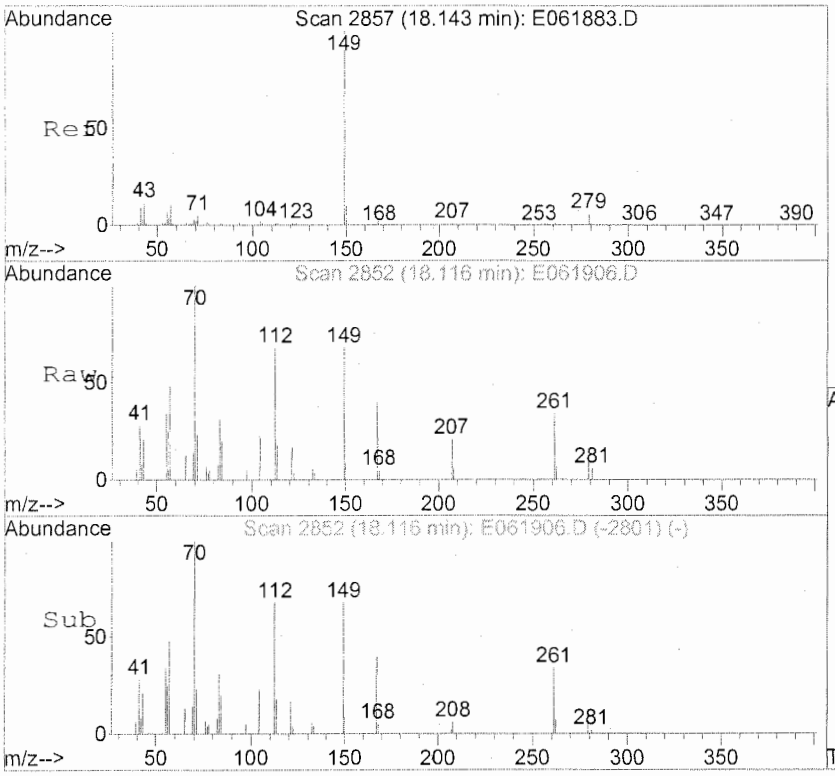


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.81 mg/L
RT: 16.79 min Scan# 2604
Delta R.T. -0.08 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:149 Resp: 7830

Ion	Ratio	Lower	Upper
149	100		
167	30.0	25.0	37.6
279	4.9	6.2	9.2#

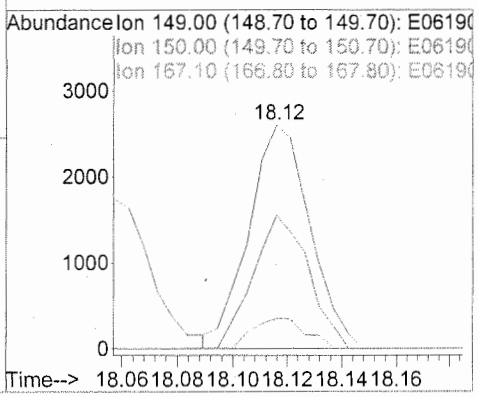


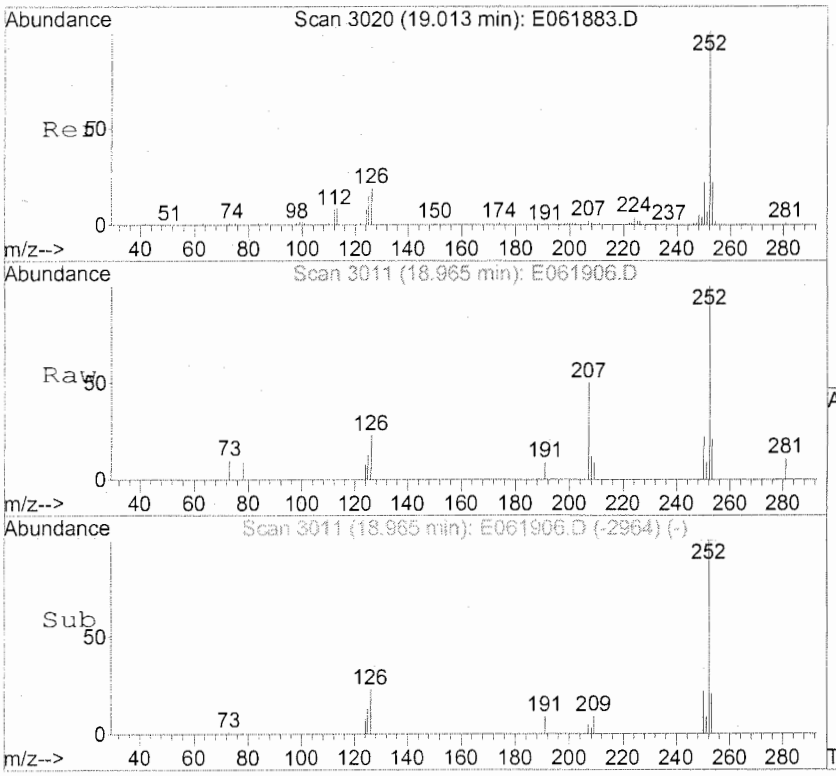


#81
Di-n-octylphthalate
Concen: 0.23 mg/L
RT: 18.12 min Scan# 2852
Delta R.T. -0.03 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:149 Resp: 4078

Ion	Ratio	Lower	Upper
149	100		
150	11.6	7.8	11.8
167	54.2	1.4	2.0#

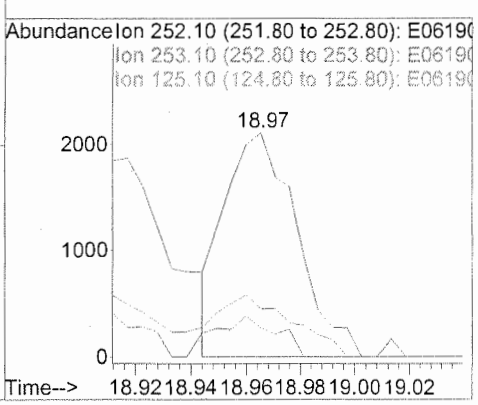


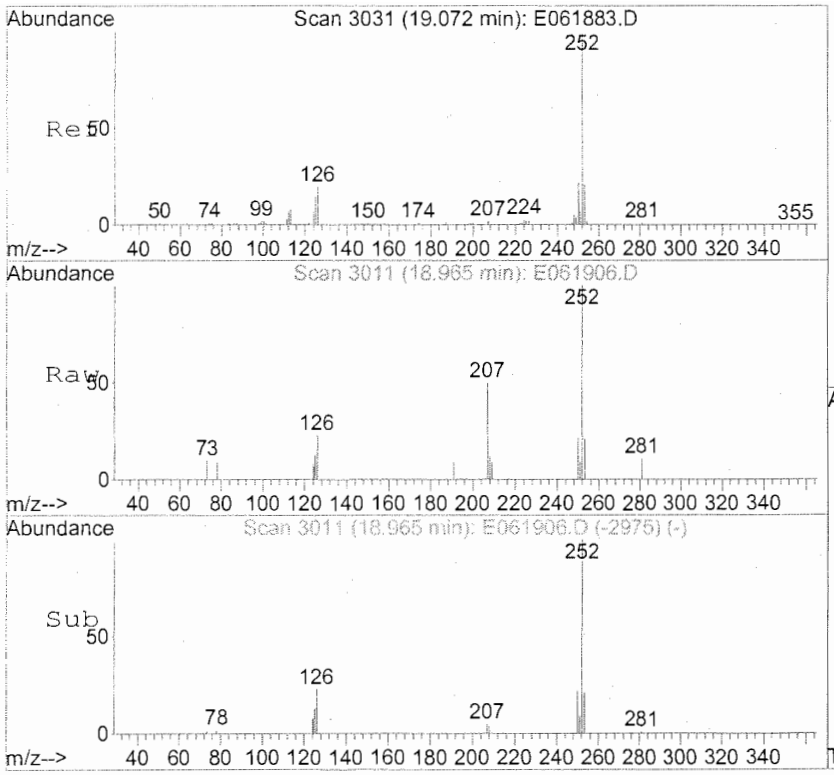


#82
Benzo(b)fluoranthene
Concen: 0.38 mg/L
RT: 18.97 min Scan# 3011
Delta R.T. -0.05 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:252 Resp: 3895

Ion	Ratio	Lower	Upper
252	100		
253	29.9	17.7	26.5#
125	15.3	6.3	9.5#

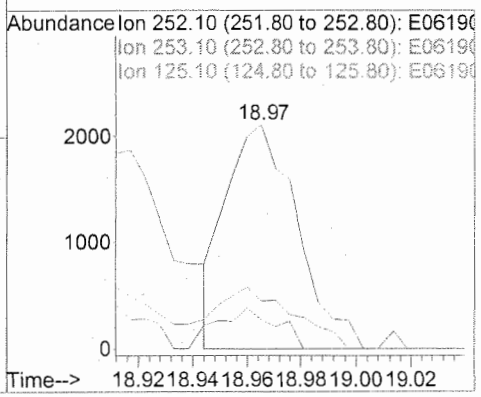


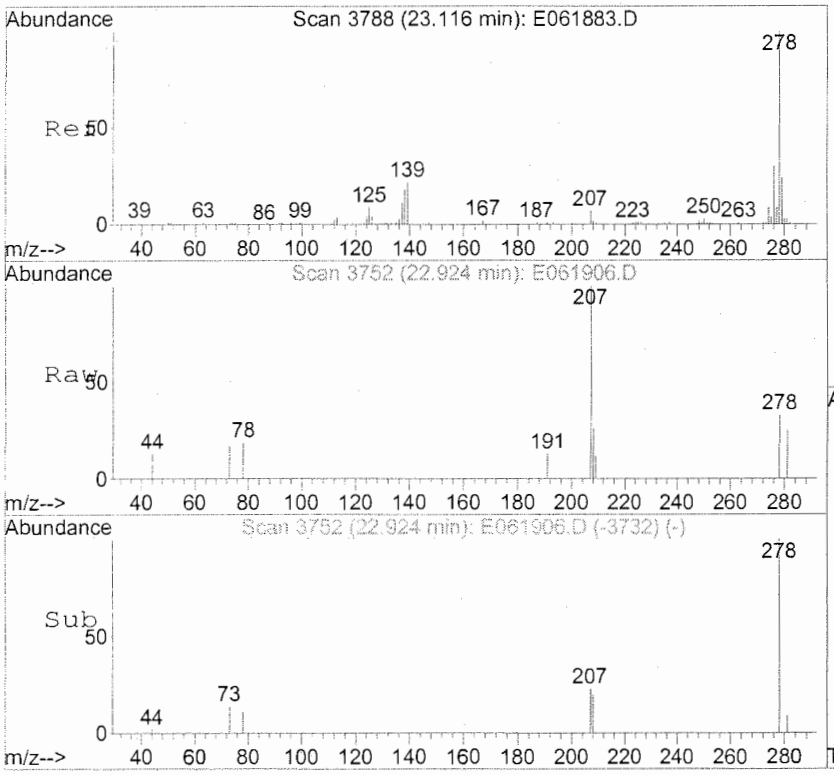


#83
Benzo(k)fluoranthene
Concen: 0.39 mg/L
RT: 18.97 min Scan# 3011
Delta R.T. -0.11 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:252 Resp: 3895

Ion	Ratio	Lower	Upper
252	100		
253	29.9	17.2	25.8#
125	15.3	6.2	9.4#

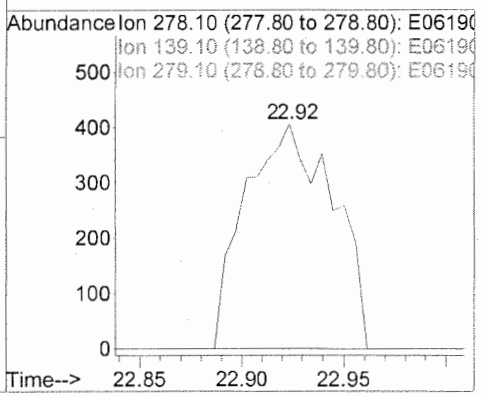


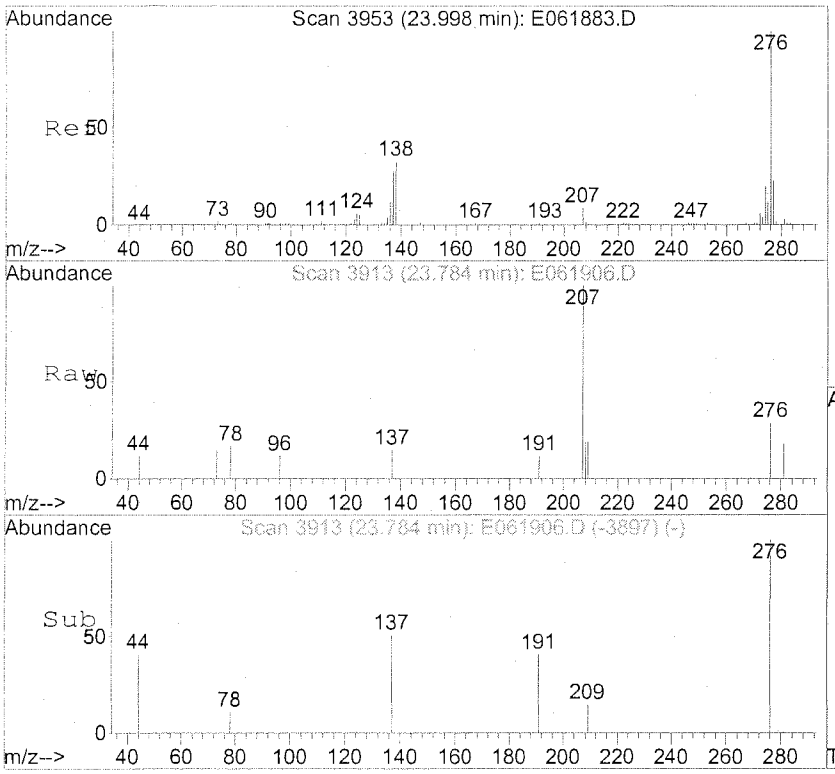


#86
Dibenz(a,h)anthracene
Concen: 0.22 mg/L
RT: 22.92 min Scan# 3752
Delta R.T. -0.19 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:278 Resp: 1221

Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.1	18.1#
279	0.0	19.0	28.6#

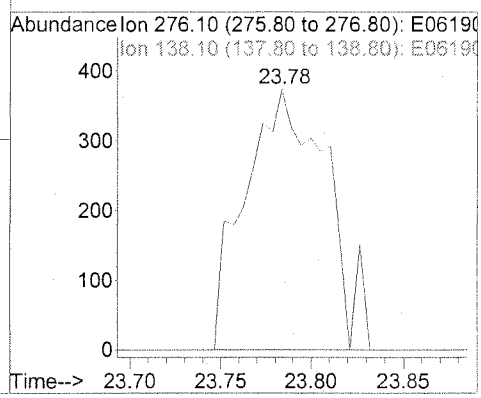




#87
Benzo(g,h,i)perylene
Concen: 0.22 mg/L
RT: 23.78 min Scan# 3913
Delta R.T. -0.21 min
Lab File: E061906.D
Acq: 29 Dec 2006 2:31 pm

Tgt Ion:276 Resp: 1169

Ion	Ratio	Lower	Upper
276	100		
138	0.0	14.3	21.5#



Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1400

Data File:	C:\MSDCHEM\1\DATA\E061229\E061907.D	**Instrument:**	MSE
Lab ID:	DWG0700103-3	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	12/29/2006 15:03
Matrix:	WATER	**Quant Date:**	12/29/2006 15:36

Parameter Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,2,4-Trichlorobenzene	42.6	50.0	85	30-101
1,2-Dichlorobenzene	40.1	50.0	80	20-105
1,3-Dichlorobenzene	38.8	50.0	78	15-104
1,4-Dichlorobenzene	38.9	50.0	78	19-102
1,4-Dioxane	37.8	50.0	76	35-101
2,4,5-Trichlorophenol	49.9	50.0	100	48-114
2,4,6-Trichlorophenol	50.0	50.0	100	48-112
2,4-Dichlorophenol	48.7	50.0	97	49-114
2,4-Dimethylphenol	48.8	50.0	98	38-107
2,4-Dinitrophenol	85.3	100	85	16-134
2,4-Dinitrotoluene	51.6	50.0	103	23-132
2,6-Dinitrotoluene	51.7	50.0	103	47-116
2-Chloronaphthalene	46.0	50.0	92	41-113
2-Chlorophenol	43.9	50.0	88	45-108
2-Methyl-4,6-dinitrophenol	87.1	100	87	21-134
2-Methylnaphthalene	46.8	50.0	94	41-112
2-Methylphenol	45.5	50.0	91	44-110
2-Nitroaniline	48.4	50.0	97	19-137
2-Nitrophenol	46.5	50.0	93	47-117
3,3'-Dichlorobenzidine	87.5	100	88	10-122
3-Nitroaniline	53.9	50.0	108	25-146
4-Bromophenyl Phenyl Ether	42.5	50.0	85	46-117
4-Chloro-3-methylphenol	51.1	50.0	102	45-115
4-Chloroaniline	51.2	50.0	102	16-139
4-Chlorophenyl Phenyl Ether	50.9	50.0	102	45-115
4-Methylphenol	47.2	50.0	94	60-108
4-Nitroaniline	54.5	50.0	109	16-147
4-Nitrophenol	104	100	104	10-134
Acenaphthene	49.8	50.0	100	39-119
Acenaphthylene	47.7	50.0	95	51-112
Aniline	45.7	50.0	91	10-144
Anthracene	47.9	50.0	96	40-123
Benz(a)anthracene	47.6	50.0	95	36-126
Benzo(a)pyrene	46.7	50.0	93	41-125
Benzo(b)fluoranthene	47.5	50.0	95	48-126
Benzo(g,h,i)perylene	47.3	50.0	95	33-138
Benzo(k)fluoranthene	45.8	50.0	92	49-125
Benzoic acid	203	250	81	10-148
Benzyl alcohol	46.2	50.0	92	48-119
bis(2-Chloroethoxy)methane	47.6	50.0	95	39-120
Bis(2-chloroethyl) Ether	44.2	50.0	88	41-108
Bis(2-Chloroisopropyl)ether	42.3	50.0	85	38-119
Bis(2-ethylhexyl) Phthalate	51.9	50.0	104	42-127
Butyl Benzyl Phthalate	47.9	50.0	96	40-126
Chrysene	47.3	50.0	95	47-117
Di-n-butyl Phthalate	53.0	50.0	106	40-126
Di-n-octyl Phthalate	47.9	50.0	96	48-127

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1400

Data File:	C:\MSDCHEM\1\DATA\E061229\E061907.D	**Instrument:**	MSE
Lab ID:	DWG0700103-3	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	12/29/2006 15:03
Matrix:	WATER	**Quant Date:**	12/29/2006 15:36

Parameter Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Dibenz(a,h)anthracene	50.4	50.0	101	44-137
Dibenzofuran	49.1	50.0	98	45-115
Diethyl Phthalate	50.8	50.0	102	41-120
Dimethyl Phthalate	49.8	50.0	100	46-116
Fluoranthene	57.4	50.0	115	35-127
Fluorene	50.3	50.0	101	46-121
Hexachlorobenzene	41.2	50.0	82	44-117
Hexachlorobutadiene	37.5	50.0	75	17-101
Hexachlorocyclopentadiene	17.9	50.0	36	10-74
Hexachloroethane	37.9	50.0	76	10-105
Indeno(1,2,3-cd)pyrene	49.7	50.0	99	38-131
Isophorone	50.2	50.0	100	44-115
N-Nitrosodi-n-propylamine	48.4	50.0	97	43-112
N-Nitrosodimethylamine	43.8	50.0	88	35-119
N-Nitrosodiphenylamine	44.3	50.0	89	53-106
Naphthalene	44.9	50.0	90	36-111
Nitrobenzene	48.2	50.0	96	42-116
Pentachlorophenol	83.9	100	84	15-141
Phenanthrene	48.2	50.0	96	43-120
Phenol	43.9	50.0	88	20-119
Pyrene	43.3	50.0	87	29-140
Pyridine	35.0	50.0	70	23-98

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/02/2007

Analysis Lot:	DWG0700100	**Prep Lot:**	DWG0700103	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76022	**Prep Date:**	12/26/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061907.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 15:03	**Quant Date:**	12/29/2006 15:36	**Vial:**	4
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0700103-3			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.33	0.00?	152	136093	40.00	OK
2	Naphthalene-d8	7.98	-0.01?	136	534006	40.00	OK
3	Acenaphthene-d10	10.23	0.00?	164	302767	40.00	OK
4	Phenanthrene-d10	12.11	0.00?	188	501342	40.00	OK
5	Chrysene-d12	16.72	0.00?	240	367579	40.00	OK
6	Perylene-d12	19.80	0.00?	264	238326	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.70	-0.01	0.00	112	174087	40.18	80	23-115	OK	
1	Phenol-d5	5.84	0.00	0.00	99	240956	42.91	86	23-121	OK	
2	Nitrobenzene-d5	7.08	0.00	0.00	82	224325	49.72	99	42-122	OK	
3	2-Fluorobiphenyl	9.35	0.00	0.00	172	478418	50.11	100	47-110	OK	
4	2,4,6-Tribromophenol	11.22	0.00	0.00	330	51814	43.09	86	31-112	OK	
5	Terphenyl-d14	14.62	0.00	0.00	244	440261	42.85	86	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.00		0.00	88	75422	37.84	37.8		
1	N-Nitrosodimethylamine	3.35		0.00	42	113605	43.84	43.8		
1	Pyridine	3.37		0.00	79	181006	34.99	35.0		
1	PGMEA	4.62		0.00	43	393755	42.04	42.0		
1	Phenol	5.86		0.00	94	259474	43.85	43.9		
1	Aniline	5.95		0.00	93	313078	45.70	45.7		
1	Bis(2-chloroethyl) Ether	6.00		0.00	93	215120	44.19	44.2		
1	2-Chlorophenol	6.10		0.00	128	219923	43.85	43.9		
1	1,3-Dichlorobenzene	6.29		0.00	146	212671	38.75	38.8		
1	1,4-Dichlorobenzene	6.35		0.00	146	217987	38.89	38.9		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061907.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 15:03	**Quant Date:**	12/29/2006 15:36	**Vial:**	4
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0700103-3			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.50	-0.01	0.00	108	147815	46.23	46.2		
1	1,2-Dichlorobenzene	6.60		0.00	146	209878	40.14	40.1		
1	1-Methyl-2-pyrrolidinone	6.62		0.00	99	154345	48.52	48.5		
1	2-Methylphenol	6.66		0.00	108	200087	45.47	45.5		
1	Bis(2-Chloroisopropyl)ether	6.70		0.00	45	393008	42.33	42.3		
1	4-Methylphenol	6.83	-0.01	0.00	107	262881	47.18	47.2		
1	N-Nitrosodi-n-propylamine	6.89		0.00	70	159175	48.38	48.4		
1	Hexachloroethane	7.00		0.00	117	78102	37.88	37.9		
2	Nitrobenzene	7.10	-0.01	0.00	77	228391	48.16	48.2		
2	Isophorone	7.39		0.00	82	426365	50.15	50.2		
2	2-Nitrophenol	7.51		0.00	139	124183	46.50	46.5		
2	2,4-Dimethylphenol	7.52		0.00	122	211194	48.83	48.8		
2	Benzoic acid	7.75	-0.02	0.00	122	576870	202.75	203		
2	bis(2-Chloroethoxy)methane	7.65		0.00	93	254524	47.64	47.6		
2	2,4-Dichlorophenol	7.80		0.00	162	178586	48.74	48.7		
2	1,2,4-Trichlorobenzene	7.92		0.00	180	167963	42.56	42.6		
2	Naphthalene	8.01		0.00	128	628009	44.89	44.9		
2	4-Chloroaniline	8.08		0.00	127	250209	51.17	51.2		
2	Hexachlorobutadiene	8.22		0.00	225	77757	37.46	37.5		
2	4-Chloro-3-methylphenol	8.66		0.00	107	191222	51.08	51.1		
2	2-Methylnaphthalene	8.88		0.00	142	441516	46.75	46.8		
3	Hexachlorocyclopentadiene	9.16		0.00	237	43117	17.90	17.9		
3	2,4,6-Trichlorophenol	9.25		0.00	196	124720	50.01	50.0		
3	2,4,5-Trichlorophenol	9.30	-0.01	0.00	196	134725	49.86	49.9		
3	2-Chloronaphthalene	9.50		0.00	162	392702	46.02	46.0		
3	2-Nitroaniline	9.65		0.00	65	126925	48.39	48.4		
3	Dimethyl Phthalate	9.89		0.00	163	465952	49.78	49.8		
3	Acenaphthylene	10.04		0.00	152	661533	47.68	47.7		
3	2,6-Dinitrotoluene	9.98	-0.01	0.00	165	113095	51.68	51.7		
3	3-Nitroaniline	10.17		0.00	138	104787	53.85	53.9		
3	Acenaphthene	10.27		0.00	154	455924	49.84	49.8		
3	2,4-Dinitrophenol	10.29		0.00	184	111477	85.33	85.3		
3	4-Nitrophenol	10.33	-0.01	0.00	109	111783	104.24	104		
3	Dibenzofuran	10.46	-0.01	0.00	168	586493	49.06	49.1		
3	2,4-Dinitrotoluene	10.48		0.00	165	144192	51.57	51.6		
3	Fluorene	10.90		0.00	166	489453	50.30	50.3		
3	Diethyl Phthalate	10.76		0.00	149	478899	50.79	50.8		
3	4-Chlorophenyl Phenyl Ether	10.87		0.00	204	213937	50.92	50.9		
3	4-Nitroaniline	10.95		0.00	138	97397	54.46	54.5		
4	2-Methyl-4,6-dinitrophenol	10.99		0.00	198	145692	87.12	87.1		
4	N-Nitrosodiphenylamine	11.02		0.00	169	317015	44.29	44.3		
4	Azobenzene	11.06	-0.01	0.00	77	464470	45.32	45.3		
4	4-Bromophenyl Phenyl Ether	11.48		0.00	248	112025	42.54	42.5		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061907.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 15:03	**Quant Date:**	12/29/2006 15:36	**Vial:**	4
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0700103-3			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.69		0.00	284	114190	41.19	41.2		
4	Pentachlorophenol	11.91	-0.01	0.00	266	154216	83.94	83.9		
4	Phenanthrene	12.14		0.00	178	676739	48.22	48.2		
4	Anthracene	12.20		0.00	178	657154	47.86	47.9		
4	Carbazole	12.40		0.00	167	478009	60.97	61.0		
4	Di-n-butyl Phthalate	12.92	-0.01	0.00	149	814485	53.02	53.0		
4	Fluoranthene	13.98		0.00	202	685987	57.37	57.4		
5	Benzidine	14.15	-0.01	0.00	184	17708	3.81	3.81	J	
5	Pyrene	14.37	-0.01	0.00	202	687268	43.27	43.3		
5	Butyl Benzyl Phthalate	15.58		0.00	149	342393	47.89	47.9		
5	3,3'-Dichlorobenzidine	16.63	-0.01	0.00	252	230935	87.53	87.5		
5	Benz(a)anthracene	16.68		0.00	228	508628	47.64	47.6		
5	Chrysene	16.77		0.00	228	474458	47.34	47.3		
5	Bis(2-ethylhexyl) Phthalate	16.79		0.00	149	481486	51.89	51.9		
5	Mirex	17.58		0.00	272	45925	23.00	23.0		
6	Di-n-octyl Phthalate	18.06		0.00	149	735435	47.86	47.9		
6	Benzo(b)fluoranthene	18.92		0.00	252	410708**m**	47.52	47.5		
6	Benzo(k)fluoranthene	18.98		0.00	252	383888	45.82	45.8		
6	Benzo(a)pyrene	19.66	-0.01	0.00	252	317618	46.65	46.7		
6	Indeno(1,2,3-cd)pyrene	22.89		0.00	276	273343	49.66	49.7		
6	Dibenz(a,h)anthracene	22.94	0.01	0.00	278	238740	50.37	50.4		
6	Benzo(g,h,i)perylene	23.80	-0.01	0.00	276	214770	47.31	47.3		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptanee criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061907.D Vial: 4
Acq On : 29 Dec 2006 3:03 pm Operator: GJ
Sample : LCS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 15:33:55 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	136093	40.00	mg/L		-0.03
22) Naphthalene-d8	7.98	136	534006	40.00	mg/L		-0.04
37) Acenaphthene-d10	10.23	164	302767	40.00	mg/L		-0.04
57) Phenanthrene-d10	12.11	188	501342	40.00	mg/L		-0.05
70) Chrysene-d12	16.72	240	367579	40.00	mg/L		-0.07
80) Perylene-d12	19.80	264	238326	40.00	mg/L		-0.11
System Monitoring Compounds							
6) 2-Fluorophenol	4.70	112	174087	40.18	mg/L		-0.03
Spiked Amount 50.000			Recovery = 80.36%				
7) Phenol-d5	5.84	99	240956	42.91	mg/L		-0.03
Spiked Amount 50.000			Recovery = 85.82%				
23) Nitrobenzene-d5	7.08	82	224325	49.72	mg/L		-0.03
Spiked Amount 50.000			Recovery = 99.44%				
41) 2-Fluorobiphenyl	9.35	172	478418	50.11	mg/L		-0.04
Spiked Amount 50.000			Recovery = 100.22%				
61) 2,4,6-Tribromophenol	11.22	330	51814	43.09	mg/L		-0.04
Spiked Amount 50.000			Recovery = 86.18%				
73) Terphenyl-d14	14.62	244	440261	42.85	mg/L		-0.07
Spiked Amount 50.000			Recovery = 85.70%				
Target Compounds							Qvalue
2) 1,4-Dioxane	3.00	88	75422	37.84	mg/L	#	80
3) N-Nitrosodimethylamine	3.35	42	113605	43.84	mg/L		86
4) Pyridine	3.37	79	181006	34.99	mg/L	#	64
5) PGMEA	4.62	43	393755	42.04	mg/L	#	89
8) Phenol	5.86	94	259474	43.85	mg/L		92
9) Aniline	5.95	93	313078	45.70	mg/L		97
10) Bis(2-chloroethyl)ether	6.00	93	215120	44.19	mg/L		96
11) 2-Chlorophenol	6.10	128	219923	43.85	mg/L		98
12) 1,3-Dichlorobenzene	6.29	146	212671	38.75	mg/L		100
13) 1,4-Dichlorobenzene	6.35	146	217987	38.89	mg/L		99
14) Benzyl alcohol	6.50	108	147815	46.23	mg/L	#	79
15) 1,2-Dichlorobenzene	6.60	146	209878	40.14	mg/L		98
16) N-Methyl pyrrolidine (NMP)	6.62	99	154345	48.52	mg/L		99
17) 2-Methylphenol	6.66	108	200087	45.47	mg/L		100
18) Bis(2-chloroisopropyl)ethe	6.70	45	393008	42.33	mg/L	#	82
19) 4-Methylphenol	6.83	107	262881	47.18	mg/L	#	94
20) N-Nitrosodi-n-propylamine	6.89	70	159175	48.38	mg/L	#	78
21) Hexachloroethane	7.00	117	78102	37.88	mg/L	#	81
24) Nitrobenzene	7.10	77	228391	48.16	mg/L	#	83
25) Isophorone	7.39	82	426365	50.15	mg/L		94
26) 2-Nitrophenol	7.51	139	124183	46.50	mg/L	#	88
27) 2,4-Dimethylphenol	7.52	122	211194	48.83	mg/L	#	83
28) Benzoic acid	7.75	122	576870	202.75	mg/L	#	83
29) Bis(2-chloroethoxy)methane	7.65	93	254524	47.64	mg/L	#	91
30) 2,4-Dichlorophenol	7.80	162	178586	48.74	mg/L		99
31) 1,2,4-Trichlorobenzene	7.92	180	167963	42.56	mg/L		99
32) Naphthalene	8.01	128	628009	44.89	mg/L		100
33) 4-Chloroaniline	8.08	127	250209	51.17	mg/L		94
34) Hexachlorobutadiene	8.22	225	77757	37.46	mg/L		100
35) 4-Chloro-3-methylphenol	8.66	107	191222	51.08	mg/L		93
36) 2-Methylnaphthalene	8.88	142	441516	46.75	mg/L		98
38) Hexachlorocyclopentadiene	9.16	237	43117	17.90	mg/L		98

(#) = qualifier out of range (m) = manual integration
E061907.D BA061226.M Fri Dec 29 15:36:48 2006 12/29/06 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061907.D Vial: 4
Acq On : 29 Dec 2006 3:03 pm Operator: GJ
Sample : LCS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 15:33:55 2006 Quant Results File: BA061226.RES

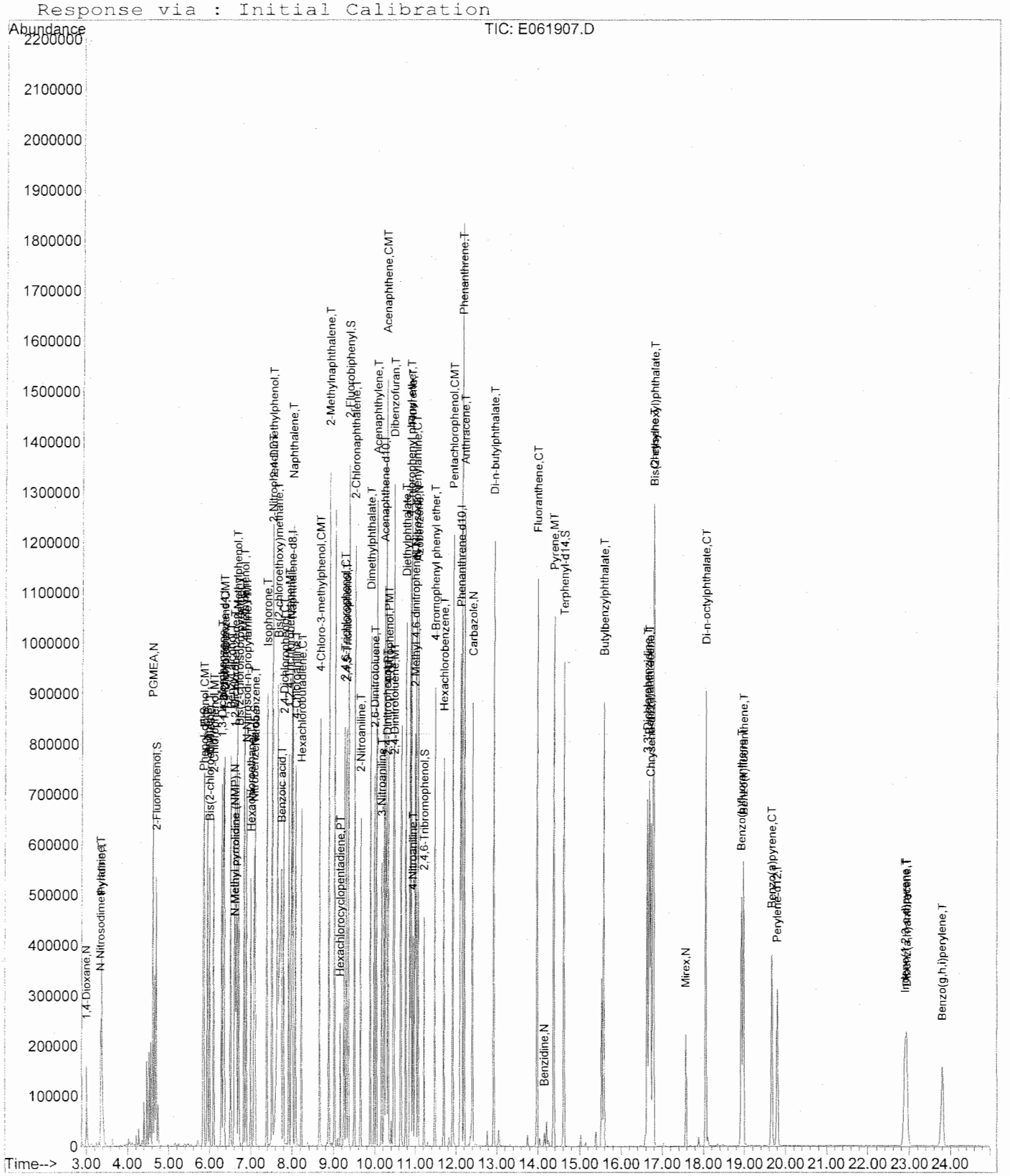
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.25	196	124720	50.01	mg/L		99
40)	2,4,5-Trichlorophenol	9.30	196	134725	49.86	mg/L		97
42)	2-Chloronaphthalene	9.50	162	392702	46.02	mg/L		98
43)	2-Nitroaniline	9.65	65	126925	48.39	mg/L		90
44)	Dimethylphthalate	9.89	163	465952	49.78	mg/L		97
45)	Acenaphthylene	10.04	152	661533	47.68	mg/L		99
46)	2,6-Dinitrotoluene	9.98	165	113095	51.68	mg/L		94
47)	3-Nitroaniline	10.17	138	104787	53.85	mg/L		87
48)	Acenaphthene	10.27	154	455924	49.84	mg/L		88
49)	2,4-Dinitrophenol	10.29	184	111477	85.33	mg/L	#	1
50)	4-Nitrophenol	10.33	109	111783	104.24	mg/L	#	56
51)	Dibenzofuran	10.46	168	586493	49.06	mg/L		96
52)	2,4-Dinitrotoluene	10.48	165	144192	51.57	mg/L	#	88
53)	Fluorene	10.90	166	489453	50.30	mg/L		99
54)	Diethylphthalate	10.76	149	478899	50.79	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.87	204	213937	50.92	mg/L		94
56)	4-Nitroaniline	10.95	138	97397	54.46	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	10.99	198	145692	87.12	mg/L	#	85
59)	N-Nitrosodiphenylamine	11.02	169	317015	44.29	mg/L		93
60)	Azobenzene	11.06	77	464470	45.32	mg/L		96
62)	4-Bromophenyl phenyl ether	11.48	248	112025	42.54	mg/L		94
63)	Hexachlorobenzene	11.69	284	114190	41.19	mg/L		91
64)	Pentachlorophenol	11.91	266	154216	83.94	mg/L		99
65)	Phenanthrene	12.14	178	676739	48.22	mg/L		100
66)	Anthracene	12.20	178	657154	47.86	mg/L		100
67)	Carbazole	12.40	167	478009	60.97	mg/L		99
68)	Di-n-butylphthalate	12.92	149	814485	53.02	mg/L		99
69)	Fluoranthene	13.98	202	685987	57.37	mg/L	#	94
71)	Benzidine	14.15	184	17708	3.81	mg/L	#	97
72)	Pyrene	14.37	202	687268	43.27	mg/L		99
74)	Butylbenzylphthalate	15.58	149	342393	47.89	mg/L		95
75)	3,3'-Dichlorobenzidine	16.63	252	230935	87.53	mg/L	#	96
76)	Benz(a)anthracene	16.68	228	508628	47.64	mg/L		99
77)	Chrysene	16.77	228	474458	47.34	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.79	149	481486	51.89	mg/L		98
79)	Mirex	17.58	272	45925	23.00	mg/L		100
81)	Di-n-octylphthalate	18.06	149	735435	47.86	mg/L		100
82)	Benzo(b)fluoranthene	18.92	252	410708m	47.52	mg/L		
83)	Benzo(k)fluoranthene	18.98	252	383888	45.82	mg/L	#	94
84)	Benzo(a)pyrene	19.66	252	317618	46.65	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.89	276	273343	49.66	mg/L	#	46
86)	Dibenz(a,h)anthracene	22.94	278	238740	50.37	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.80	276	214770	47.31	mg/L	#	63

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061907.D Vial: 4
Acq On : 29 Dec 2006 3:03 pm Operator: GJ
Sample : LCS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 15:36 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061907.D Vial: 4
Acq On : 29 Dec 2006 3:03 pm Operator: GJ
Sample : LCS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 15:33:55 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	136093	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	534006	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	302767	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.11	188	501342	40.00	mg/L	-0.05
70) Chrysene-d12	16.72	240	367579	40.00	mg/L	-0.07
80) Perylene-d12	19.80	264	238326	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	174087	40.18	mg/L	-0.03
Spiked Amount 50.000			Recovery = 80.36%			
7) Phenol-d5	5.84	99	240956	42.91	mg/L	-0.03
Spiked Amount 50.000			Recovery = 85.82%			
23) Nitrobenzene-d5	7.08	82	224325	49.72	mg/L	-0.03
Spiked Amount 50.000			Recovery = 99.44%			
41) 2-Fluorobiphenyl	9.35	172	478418	50.11	mg/L	-0.04
Spiked Amount 50.000			Recovery = 100.22%			
61) 2,4,6-Tribromophenol	11.22	330	51814	43.09	mg/L	-0.04
Spiked Amount 50.000			Recovery = 86.18%			
73) Terphenyl-d14	14.62	244	440261	42.85	mg/L	-0.07
Spiked Amount 50.000			Recovery = 85.70%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	75422	37.84	mg/L #	80
3) N-Nitrosodimethylamine	3.35	42	113605	43.84	mg/L	86
4) Pyridine	3.37	79	181006	34.99	mg/L #	64
5) PGMEA	4.62	43	393755	42.04	mg/L #	89
8) Phenol	5.86	94	259474	43.85	mg/L	92
9) Aniline	5.95	93	313078	45.70	mg/L	97
10) Bis(2-chloroethyl)ether	6.00	93	215120	44.19	mg/L	96
11) 2-Chlorophenol	6.10	128	219923	43.85	mg/L	98
12) 1,3-Dichlorobenzene	6.29	146	212671	38.75	mg/L	100
13) 1,4-Dichlorobenzene	6.35	146	217987	38.89	mg/L	99
14) Benzyl alcohol	6.50	108	147815	46.23	mg/L #	79
15) 1,2-Dichlorobenzene	6.60	146	209878	40.14	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.62	99	154345	48.52	mg/L	99
17) 2-Methylphenol	6.66	108	200087	45.47	mg/L	100
18) Bis(2-chloroisopropyl)ethe	6.70	45	393008	42.33	mg/L #	82
19) 4-Methylphenol	6.83	107	262881	47.18	mg/L #	94
20) N-Nitrosodi-n-propylamine	6.89	70	159175	48.38	mg/L #	78
21) Hexachloroethane	7.00	117	78102	37.88	mg/L #	81
24) Nitrobenzene	7.10	77	228391	48.16	mg/L #	83
25) Isophorone	7.39	82	426365	50.15	mg/L	94
26) 2-Nitrophenol	7.51	139	124183	46.50	mg/L #	88
27) 2,4-Dimethylphenol	7.52	122	211194	48.83	mg/L #	83
28) Benzoic acid	7.75	122	576870	202.75	mg/L #	83
29) Bis(2-chloroethoxy)methane	7.65	93	254524	47.64	mg/L #	91
30) 2,4-Dichlorophenol	7.80	162	178586	48.74	mg/L	99
31) 1,2,4-Trichlorobenzene	7.92	180	167963	42.56	mg/L	99
32) Naphthalene	8.01	128	628009	44.89	mg/L	100
33) 4-Chloroaniline	8.08	127	250209	51.17	mg/L	94
34) Hexachlorobutadiene	8.22	225	77757	37.46	mg/L	100
35) 4-Chloro-3-methylphenol	8.66	107	191222	51.08	mg/L	93
36) 2-Methylnaphthalene	8.88	142	441516	46.75	mg/L	98
38) Hexachlorocyclopentadiene	9.16	237	43117	17.90	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061907.D Vial: 4
Acq On : 29 Dec 2006 3:03 pm Operator: GJ
Sample : LCS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 15:33:55 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

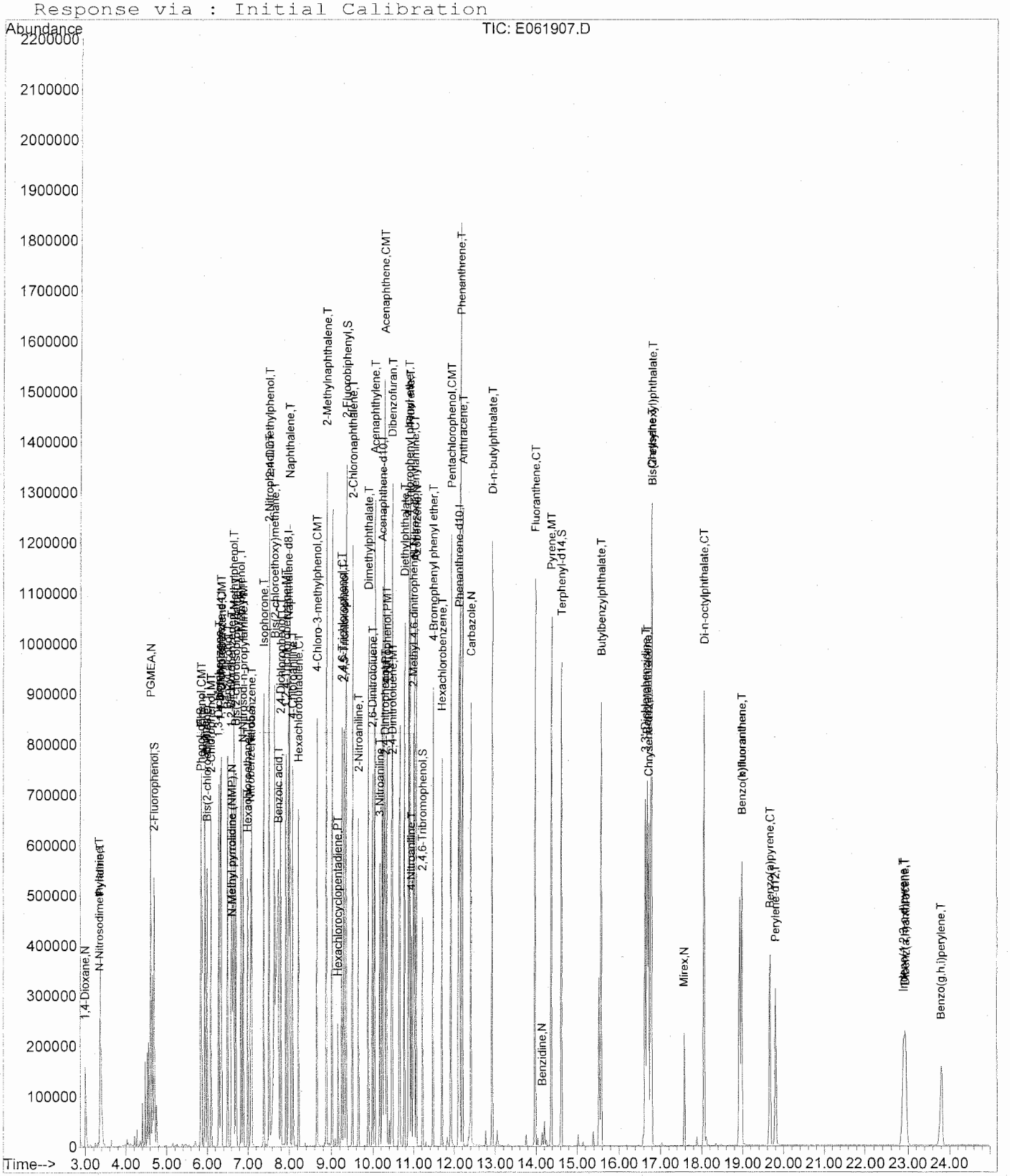
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.25	196	124720	50.01	mg/L		99
40)	2,4,5-Trichlorophenol	9.30	196	134725	49.86	mg/L		97
42)	2-Chloronaphthalene	9.50	162	392702	46.02	mg/L		98
43)	2-Nitroaniline	9.65	65	126925	48.39	mg/L		90
44)	Dimethylphthalate	9.89	163	465952	49.78	mg/L		97
45)	Acenaphthylene	10.04	152	661533	47.68	mg/L		99
46)	2,6-Dinitrotoluene	9.98	165	113095	51.68	mg/L		94
47)	3-Nitroaniline	10.17	138	104787	53.85	mg/L		87
48)	Acenaphthene	10.27	154	455924	49.84	mg/L		88
49)	2,4-Dinitrophenol	10.29	184	111477	85.33	mg/L	#	1
50)	4-Nitrophenol	10.33	109	111783	104.24	mg/L	#	56
51)	Dibenzofuran	10.46	168	586493	49.06	mg/L		96
52)	2,4-Dinitrotoluene	10.48	165	144192	51.57	mg/L	#	88
53)	Fluorene	10.90	166	489453	50.30	mg/L		99
54)	Diethylphthalate	10.76	149	478899	50.79	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.87	204	213937	50.92	mg/L		94
56)	4-Nitroaniline	10.95	138	97397	54.46	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	10.99	198	145692	87.12	mg/L	#	85
59)	N-Nitrosodiphenylamine	11.02	169	317015	44.29	mg/L		93
60)	Azobenzene	11.06	77	464470	45.32	mg/L		96
62)	4-Bromophenyl phenyl ether	11.48	248	112025	42.54	mg/L		94
63)	Hexachlorobenzene	11.69	284	114190	41.19	mg/L		91
64)	Pentachlorophenol	11.91	266	154216	83.94	mg/L		99
65)	Phenanthrene	12.14	178	676739	48.22	mg/L		100
66)	Anthracene	12.20	178	657154	47.86	mg/L		100
67)	Carbazole	12.40	167	478009	60.97	mg/L		99
68)	Di-n-butylphthalate	12.92	149	814485	53.02	mg/L		99
69)	Fluoranthene	13.98	202	685987	57.37	mg/L	#	94
71)	Benzidine	14.15	184	17708	3.81	mg/L	#	97
72)	Pyrene	14.37	202	687268	43.27	mg/L		99
74)	Butylbenzylphthalate	15.58	149	342393	47.89	mg/L		95
75)	3,3'-Dichlorobenzidine	16.63	252	230935	87.53	mg/L	#	96
76)	Benz(a)anthracene	16.68	228	508628	47.64	mg/L		99
77)	Chrysene	16.77	228	474458	47.34	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.79	149	481486	51.89	mg/L		98
79)	Mirex	17.58	272	45925	23.00	mg/L		100
81)	Di-n-octylphthalate	18.06	149	735435	47.86	mg/L		100
82)	Benzo(b)fluoranthene	18.98	252	383888	44.42	mg/L	#	93
83)	Benzo(k)fluoranthene	18.98	252	383888	45.82	mg/L	#	94
84)	Benzo(a)pyrene	19.66	252	317618	46.65	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.89	276	273343	49.66	mg/L	#	46
86)	Dibenz(a,h)anthracene	22.94	278	238740	50.37	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.80	276	214770	47.31	mg/L	#	63

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061907.D Vial: 4
Acq On : 29 Dec 2006 3:03 pm Operator: GJ
Sample : LCS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 15:33 2006 Quant Results File: BA061226.RES

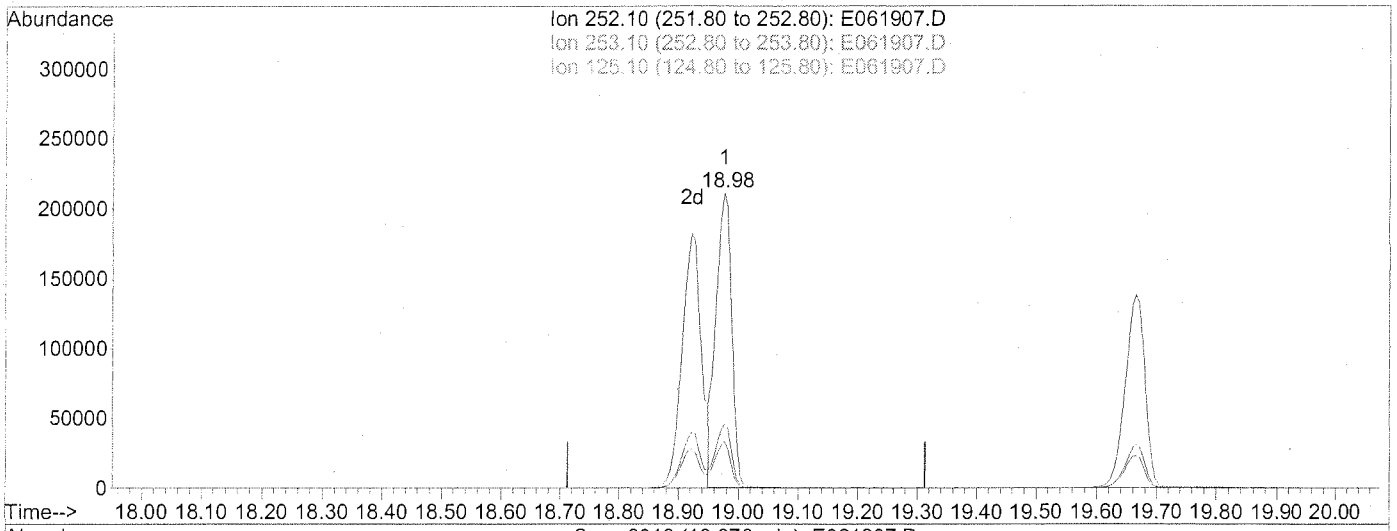
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

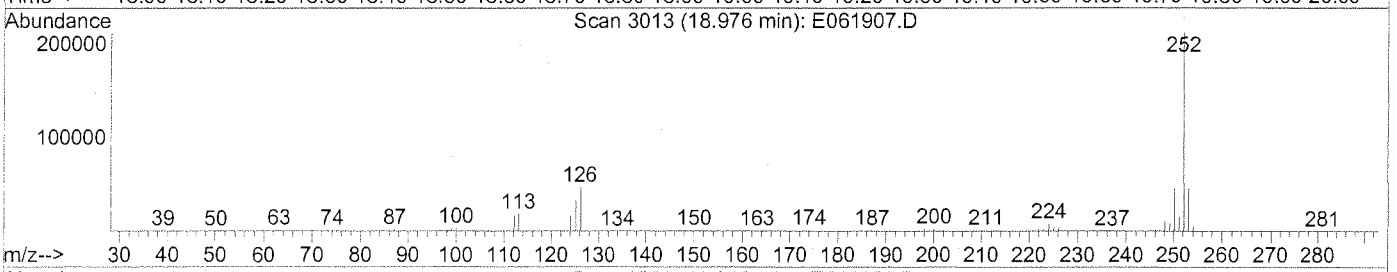


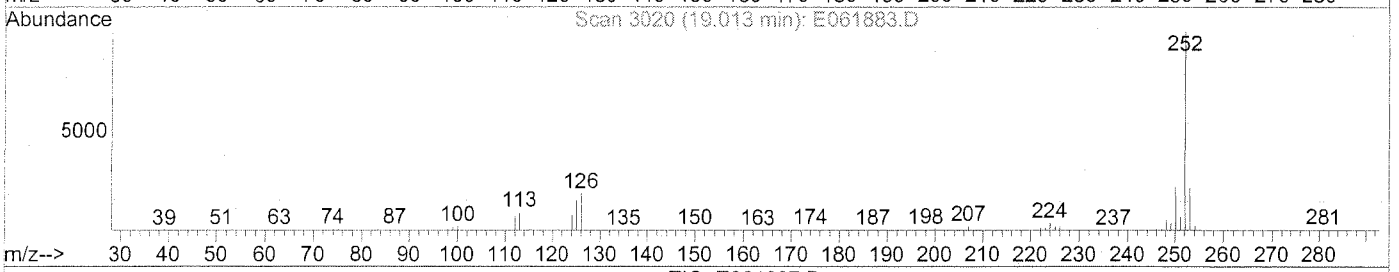
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061907.D Vial: 4
Acq On : 29 Dec 2006 3:03 pm Operator: GJ
Sample : LCS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 15:33 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061907.D

(82) Benzo(b)fluoranthene (T)

18.98min 44.42mg/L

response 383888

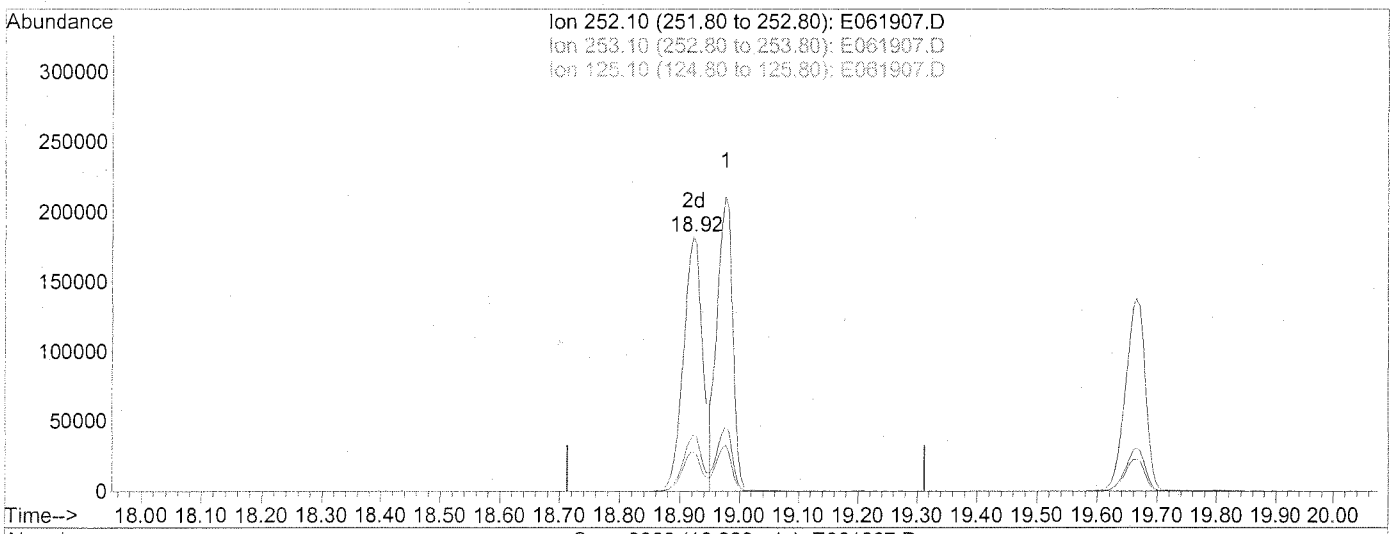
Ion	Exp%	Act%
252.10	100	100
253.10	22.10	21.63
125.10	7.90	16.09#
0.00	0.00	0.00

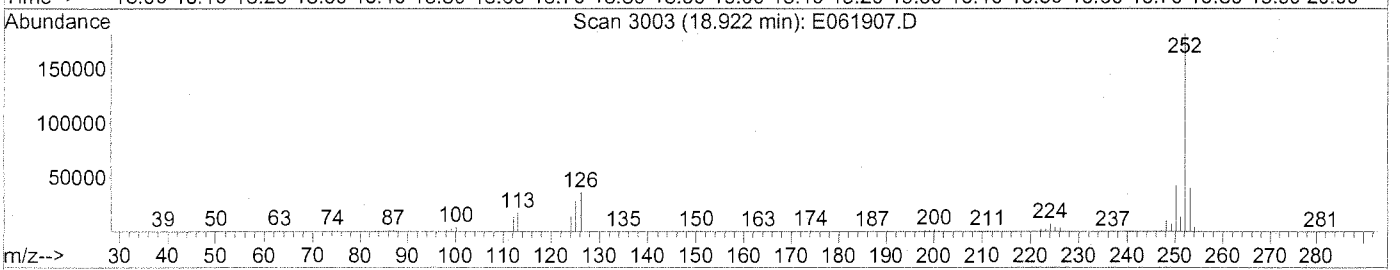
Ref.

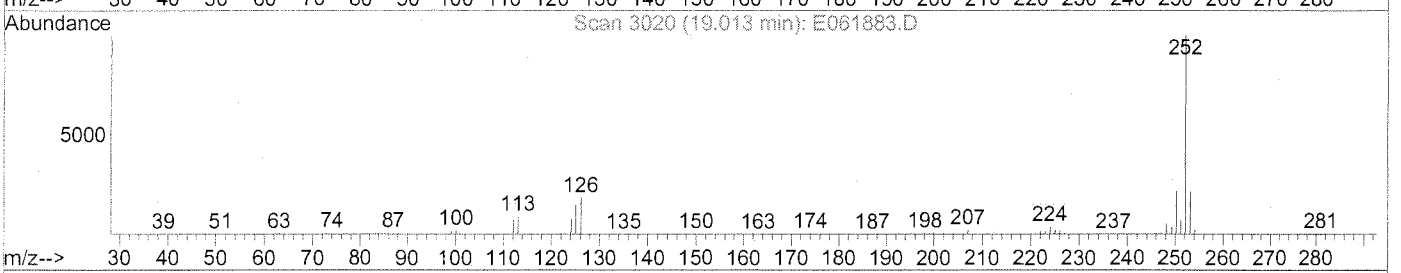
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061907.D Vial: 4
Acq On : 29 Dec 2006 3:03 pm Operator: GJ
Sample : LCS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 15:36 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061907.D

(82) Benzo(b)fluoranthene (T)

18.92min 47.52mg/L m

response 410708

Ion	Exp%	Act%
252.10	100	100
253.10	22.10	20.22
125.10	7.90	15.04#
0.00	0.00	0.00

Aft.
12/29/06
- wrong peak

12/30/06

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/02/2007

Analysis Lot:	DWG0700100	**Prep Lot:**	DWG0700103	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76020	**Prep Date:**	12/26/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061913.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 18:17	**Quant Date:**	01/02/2007 08:31	**Vial:**	10
Run Type:	MS			**Dilution:**	1.0
Lab ID:	DWG0700103-1 -- D0602127-005MS			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.33	0.00?	152	132676	40.00	OK
2	Naphthalene-d8	7.98	-0.01?	136	522475	40.00	OK
3	Acenaphthene-d10	10.23	0.00?	164	293031	40.00	OK
4	Phenanthrene-d10	12.11	0.00?	188	471280	40.00	OK
5	Chrysene-d12	16.72	0.00?	240	295250	40.00	OK
6	Perylene-d12	19.80	0.00?	264	171828	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.70	-0.01	0.00	112	178084	42.16	84	23-115	OK	
1	Phenol-d5	5.84	0.00	0.00	99	242119	44.22	88	23-121	OK	
2	Nitrobenzene-d5	7.08	0.00	0.00	82	219221	49.66	99	42-122	OK	
3	2-Fluorobiphenyl	9.35	0.00	0.00	172	457334	49.50	99	47-110	OK	
4	2,4,6-Tribromophenol	11.21	-0.01	0.00	330	49490	43.78	88	31-112	OK	
5	Terphenyl-d14	14.62	0.00	0.00	244	380276	46.08	92	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.00		0.00	88	80108	41.23	39.3		
1	N-Nitrosodimethylamine	3.35		0.00	42	113439	44.90	42.8		
1	Pyridine	3.37		0.00	79	193318	38.34	36.5		
1	PGMEA	4.62		0.00	43	379981	41.61	39.6		
1	Phenol	5.86		0.00	94	266483	46.20	44.0		
1	Aniline	5.95		0.00	93	293358	43.92	41.8		
1	Bis(2-chloroethyl) Ether	6.00		0.00	93	214484	45.19	43.0		
1	2-Chlorophenol	6.10		0.00	128	223359	45.69	43.5		
1	1,3-Dichlorobenzene	6.29		0.00	146	223210	41.72	39.7		
1	1,4-Dichlorobenzene	6.35		0.00	146	228227	41.77	39.8		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061913.D		**Instrument:** MSE
Acqu Date:	12/29/2006 18:17	**Quant Date:** 01/02/2007 08:31	**Vial:** 10
Run Type:	MS		**Dilution:** 1.0
Lab ID:	DWG0700103-1 -- D0602127-005MS		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.50	-0.01	0.00	108	145657	46.72	44.5		
1	1,2-Dichlorobenzene	6.60		0.00	146	218628	42.89	40.8		
1	1-Methyl-2-pyrrolidinone	6.62		0.00	99	147296	47.50	45.2		
1	2-Methylphenol	6.66		0.00	108	201617	47.00	44.8		
1	Bis(2-Chloroisopropyl)ether	6.70		0.00	45	378782	41.85	39.9		
1	4-Methylphenol	6.83	-0.01	0.00	107	259023	47.68	45.4		
1	N-Nitrosodi-n-propylamine	6.89		0.00	70	153383	47.83	45.6		
1	Hexachloroethane	7.00		0.00	117	81481	40.53	38.6		
2	Nitrobenzene	7.10	-0.01	0.00	77	229144	49.39	47.0		
2	Isophorone	7.39		0.00	82	400569	48.15	45.9		
2	2-Nitrophenol	7.51		0.00	139	121765	46.60	44.4		
2	2,4-Dimethylphenol	7.52		0.00	122	206006	48.68	46.4		
2	Benzoic acid	7.76	-0.01	0.00	122	652487	234.39	223		
2	bis(2-Chloroethoxy)methane	7.65		0.00	93	246218	47.10	44.9		
2	2,4-Dichlorophenol	7.80		0.00	162	176227	49.16	46.8		
2	1,2,4-Trichlorobenzene	7.92		0.00	180	169786	43.97	41.9		
2	Naphthalene	8.01		0.00	128	621506	45.41	43.2		
2	4-Chloroaniline	8.08		0.00	127	245672	51.35	48.9		
2	Hexachlorobutadiene	8.22		0.00	225	79520	39.16	37.3		
2	4-Chloro-3-methylphenol	8.66		0.00	107	182916	49.94	47.6		
2	2-Methylnaphthalene	8.88		0.00	142	427058	46.22	44.0		
3	Hexachlorocyclopentadiene	9.16		0.00	237	49046	21.04	20.0		
3	2,4,6-Trichlorophenol	9.25		0.00	196	120117	49.77	47.4		
3	2,4,5-Trichlorophenol	9.30	-0.01	0.00	196	128373	49.08	46.7		
3	2-Chloronaphthalene	9.50		0.00	162	378744	45.85	43.7		
3	2-Nitroaniline	9.65		0.00	65	117407	46.25	44.0		
3	Dimethyl Phthalate	9.89		0.00	163	436639	48.20	45.9		
3	Acenaphthylene	10.04		0.00	152	629701	46.89	44.7		
3	2,6-Dinitrotoluene	9.98	-0.01	0.00	165	103576	48.90	46.6		
3	3-Nitroaniline	10.17		0.00	138	106507	56.14	53.5		
3	Acenaphthene	10.27		0.00	154	437031	49.37	47.0		
3	2,4-Dinitrophenol	10.29		0.00	184	120480	95.28	90.7		
3	4-Nitrophenol	10.33	-0.01	0.00	109	106449	102.56	97.7		
3	Dibenzofuran	10.46	-0.01	0.00	168	553727	47.86	45.6		
3	2,4-Dinitrotoluene	10.48		0.00	165	134201	49.59	47.2		
3	Fluorene	10.89	-0.01	0.00	166	454401	48.25	46.0		
3	Diethyl Phthalate	10.76		0.00	149	444357	48.69	46.4		
3	4-Chlorophenyl Phenyl Ether	10.87		0.00	204	202570	49.82	47.4		
3	4-Nitroaniline	10.94	-0.01	0.00	138	90566	52.64	50.1		
4	2-Methyl-4,6-dinitrophenol	10.99		0.00	198	146053	92.91	88.5		
4	N-Nitrosodiphenylamine	11.02		0.00	169	311318	46.27	44.1		
4	Azobenzene	11.06	-0.01	0.00	77	430411	44.68	42.6		
4	4-Bromophenyl Phenyl Ether	11.48		0.00	248	103012	41.61	39.6		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine aceeptancc
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061913.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 18:17	**Quant Date:**	01/02/2007 08:31	**Vial:**	10
Run Type:	MS			**Dilution:**	1.0
Lab ID:	DWG0700103-1 -- D0602127-005MS			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.69		0.00	284	104886	40.25	38.3		
4	Pentachlorophenol	11.91	-0.01	0.00	266	148474	85.97	81.9		
4	Phenanthrene	12.14		0.00	178	622035	47.15	44.9		
4	Anthracene	12.20		0.00	178	612468	47.45	45.2		
4	Carbazole	12.40		0.00	167	535315	68.11	64.9		
4	Di-n-butyl Phthalate	12.92	-0.01	0.00	149	739367	51.20	48.8		
4	Fluoranthene	13.98		0.00	202	603757	53.72	51.2		
5	Benzidine	14.15	-0.01	0.00	184	19136	5.12	4.88	J	
5	Pyrene	14.37	-0.01	0.00	202	596853	46.78	44.6		
5	Butyl Benzyl Phthalate	15.58		0.00	149	277973	48.41	46.1		
5	3,3'-Dichlorobenzidine	16.63	-0.01	0.00	252	140634	69.40	66.1		
5	Benz(a)anthracene	16.68		0.00	228	401711	46.84	44.6		
5	Chrysene	16.77		0.00	228	373158	46.35	44.1		
5	Bis(2-ethylhexyl) Phthalate	16.79		0.00	149	397739	53.37	50.8		
5	Mirex	17.58		0.00	272	37561	23.42	22.3		
6	Di-n-octyl Phthalate	18.06		0.00	149	585733	52.87	50.4		
6	Benzo(b)fluoranthene	18.92		0.00	252	289436**m**	46.45	44.2		
6	Benzo(k)fluoranthene	18.97	-0.01	0.00	252	276854	45.83	43.6		
6	Benzo(a)pyrene	19.66	-0.01	0.00	252	224379	45.71	43.5		
6	Indeno(1,2,3-cd)pyrene	22.87	-0.02	0.00	276	187447	47.24	45.0		
6	Dibenz(a,h)anthracene	22.93		0.00	278	163862	47.95	45.7		
6	Benzo(g,h,i)perylene	23.79	-0.02	0.00	276	148202	45.28	43.1		

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: cheek for co-elution

Matrix Spike Summary Report

Matrix Spike Information ***ListJoinID :*** LJ1400

Data File:	C:\MSDCHEM\1\DATA\E061229\E061913.D	**Instrument:**	MSE
Lab ID:	DWG0700103-1	**Dilution:**	1.00
Client ID:	Matrix Spike	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	12/29/2006 18:17
Matrix:	WATER	**Quant Date:**	01/02/2007 08:31

Duplicate Matrix Spike Information

Data File:	C:\MSDCHEM\1\DATA\E061229\E061914.D	**Instrument:**	MSE
Lab ID:	DWG0700103-2	**Dilution:**	1.00
Client ID:	Duplicate Matrix Spike	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	12/29/2006 18:49
Matrix:	WATER	**Quant Date:**	01/02/2007 08:33

Sample Reference Information

Data File:	C:\MSDCHEM\1\DATA\E061229\E061912.D	**Instrument:**	MSE
Lab ID:	D0602127-005	**Dilution:**	1.00
Client ID:	BPCU-MW07-W07	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	12/29/2006 17:45
Matrix:	WATER	**Quant Date:**	01/02/2007 08:27

Parameter Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2,4-Trichlorobenzene	ND	41.9	47.6	88	42.5	47.6	89	30-101	1	20
1,4-Dichlorobenzene	ND	39.8	47.6	84	39.4	47.6	83	19-102	1	20
1,4-Dioxane	1.5	39.3	47.6	79	39.8	47.6	80	35-101	1	20
2,4-Dinitrotoluene	ND	47.2	47.6	99	49.9	47.6	105	23-132	6	20
2-Chlorophenol	ND	43.5	47.6	91	44.7	47.6	94	45-108	3	20
4-Chloro-3-methylphenol	ND	47.6	47.6	100	50.1	47.6	105	45-115	5	20
4-Nitrophenol	ND	97.7	95.2	103	101	95.2	107	10-134	4	20
Acenaphthene	ND	47.0	47.6	99	49.4	47.6	104	39-119	5	20
N-Nitrosodi-n-propylamine	ND	45.6	47.6	96	47.9	47.6	101	43-112	5	20
Pentachlorophenol	ND	81.9	95.2	86	87.1	95.2	91	15-141	6	20
Phenol	ND	44.0	47.6	92	44.6	47.6	94	20-119	1	20
Pyrene	ND	44.6	47.6	94	44.6	47.6	94	29-140	0	20
2,4,6-Tribromophenol				88			90	31-112		
2-Fluorobiphenyl				99			102	47-110		
2-Fluorophenol				84			86	23-115		
Nitrobenzene-d5				99			103	42-122		
Phenol-d5				88			90	23-121		
Terphenyl-d14				92			92	37-130		

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061913.D Vial: 10
Acq On : 29 Dec 2006 6:17 pm Operator: GJ
Sample : D0602127-005MS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31:01 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	132676	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	522475	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	293031	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.11	188	471280	40.00	mg/L	-0.05
70) Chrysene-d12	16.72	240	295250	40.00	mg/L	-0.07
80) Perylene-d12	19.80	264	171828	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	178084	42.16	mg/L	-0.03
Spiked Amount 50.000			Recovery =	84.32%		
7) Phenol-d5	5.84	99	242119	44.22	mg/L	-0.03
Spiked Amount 50.000			Recovery =	88.44%		
23) Nitrobenzene-d5	7.08	82	219221	49.66	mg/L	-0.03
Spiked Amount 50.000			Recovery =	99.32%		
41) 2-Fluorobiphenyl	9.35	172	457334	49.50	mg/L	-0.04
Spiked Amount 50.000			Recovery =	99.00%		
61) 2,4,6-Tribromophenol	11.21	330	49490	43.78	mg/L	-0.05
Spiked Amount 50.000			Recovery =	87.56%		
73) Terphenyl-d14	14.62	244	380276	46.08	mg/L	-0.07
Spiked Amount 50.000			Recovery =	92.16%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	80108	41.23	mg/L #	81
3) N-Nitrosodimethylamine	3.35	42	113439	44.90	mg/L	89
4) Pyridine	3.37	79	193318	38.34	mg/L #	66
5) PGMEA	4.62	43	379981	41.61	mg/L #	89
8) Phenol	5.86	94	266483	46.20	mg/L	91
9) Aniline	5.95	93	293358	43.92	mg/L	97
10) Bis(2-chloroethyl)ether	6.00	93	214484	45.19	mg/L	97
11) 2-Chlorophenol	6.10	128	223359	45.69	mg/L	98
12) 1,3-Dichlorobenzene	6.29	146	223210	41.72	mg/L	99
13) 1,4-Dichlorobenzene	6.35	146	228227	41.77	mg/L	99
14) Benzyl alcohol	6.50	108	145657	46.72	mg/L #	79
15) 1,2-Dichlorobenzene	6.60	146	218628	42.89	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.62	99	147296	47.50	mg/L	99
17) 2-Methylphenol	6.66	108	201617	47.00	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.70	45	378782	41.85	mg/L #	82
19) 4-Methylphenol	6.83	107	259023	47.68	mg/L #	92
20) N-Nitrosodi-n-propylamine	6.89	70	153383	47.83	mg/L #	80
21) Hexachloroethane	7.00	117	81481	40.53	mg/L #	81
24) Nitrobenzene	7.10	77	229144	49.39	mg/L #	83
25) Isophorone	7.39	82	400569	48.15	mg/L	94
26) 2-Nitrophenol	7.51	139	121765	46.60	mg/L #	88
27) 2,4-Dimethylphenol	7.52	122	206006	48.68	mg/L #	83
28) Benzoic acid	7.76	122	652487	234.39	mg/L #	83
29) Bis(2-chloroethoxy)methane	7.65	93	246218	47.10	mg/L #	92
30) 2,4-Dichlorophenol	7.80	162	176227	49.16	mg/L	98
31) 1,2,4-Trichlorobenzene	7.92	180	169786	43.97	mg/L	99
32) Naphthalene	8.01	128	621506	45.41	mg/L	99
33) 4-Chloroaniline	8.08	127	245672	51.35	mg/L	94
34) Hexachlorobutadiene	8.22	225	79520	39.16	mg/L	100
35) 4-Chloro-3-methylphenol	8.66	107	182916	49.94	mg/L	93
36) 2-Methylnaphthalene	8.88	142	427058	46.22	mg/L	99
38) Hexachlorocyclopentadiene	9.16	237	49046	21.04	mg/L	98

(#) = qualifier out of range (m) = manual integration

a 1/2/07

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061913.D Vial: 10
Acq On : 29 Dec 2006 6:17 pm Operator: GJ
Sample : D0602127-005MS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31:01 2006 Quant Results File: BA061226.RES

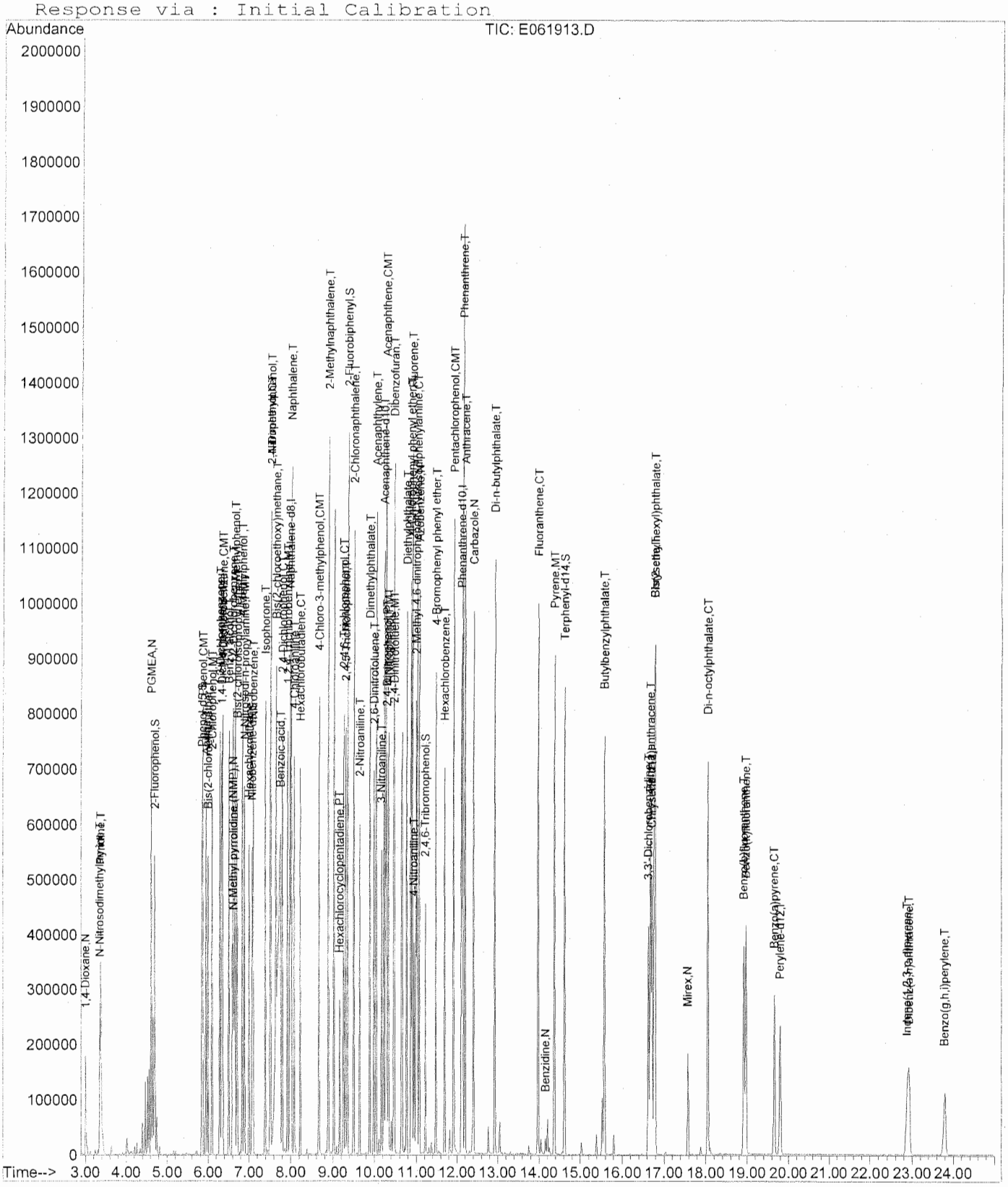
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.25	196	120117	49.77	mg/L		99
40)	2,4,5-Trichlorophenol	9.30	196	128373	49.08	mg/L		98
42)	2-Chloronaphthalene	9.50	162	378744	45.85	mg/L		98
43)	2-Nitroaniline	9.65	65	117407	46.25	mg/L		90
44)	Dimethylphthalate	9.89	163	436639	48.20	mg/L		97
45)	Acenaphthylene	10.04	152	629701	46.89	mg/L		100
46)	2,6-Dinitrotoluene	9.98	165	103576	48.90	mg/L		94
47)	3-Nitroaniline	10.17	138	106507	56.14	mg/L		87
48)	Acenaphthene	10.27	154	437031	49.37	mg/L		86
49)	2,4-Dinitrophenol	10.29	184	120480	95.28	mg/L	#	1
50)	4-Nitrophenol	10.33	109	106449	102.56	mg/L	#	55
51)	Dibenzofuran	10.46	168	553727	47.86	mg/L		95
52)	2,4-Dinitrotoluene	10.48	165	134201	49.59	mg/L	#	90
53)	Fluorene	10.89	166	454401	48.25	mg/L		100
54)	Diethylphthalate	10.76	149	444357	48.69	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.87	204	202570	49.82	mg/L		95
56)	4-Nitroaniline	10.94	138	90566	52.64	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	10.99	198	146053	92.91	mg/L	#	85
59)	N-Nitrosodiphenylamine	11.02	169	311318	46.27	mg/L		93
60)	Azobenzene	11.06	77	430411	44.68	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.48	248	103012	41.61	mg/L		94
63)	Hexachlorobenzene	11.69	284	104886	40.25	mg/L		92
64)	Pentachlorophenol	11.91	266	148474	85.97	mg/L		99
65)	Phenanthrene	12.14	178	622035	47.15	mg/L		99
66)	Anthracene	12.20	178	612468	47.45	mg/L		99
67)	Carbazole	12.40	167	535315	68.11	mg/L		99
68)	Di-n-butylphthalate	12.92	149	739367	51.20	mg/L		99
69)	Fluoranthene	13.98	202	603757	53.72	mg/L	#	95
71)	Benzidine	14.15	184	19136	5.12	mg/L	#	98
72)	Pyrene	14.37	202	596853	46.78	mg/L		100
74)	Butylbenzylphthalate	15.58	149	277973	48.41	mg/L		94
75)	3,3'-Dichlorobenzidine	16.63	252	140634	69.40	mg/L	#	96
76)	Benz(a)anthracene	16.68	228	401711	46.84	mg/L		99
77)	Chrysene	16.77	228	373158	46.35	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.79	149	397739	53.37	mg/L		98
79)	Mirex	17.58	272	37561	23.42	mg/L		100
81)	Di-n-octylphthalate	18.06	149	585733	52.87	mg/L		99
82)	Benzo(b)fluoranthene	18.92	252	289436m	46.45	mg/L		
83)	Benzo(k)fluoranthene	18.97	252	276854	45.83	mg/L	#	94
84)	Benzo(a)pyrene	19.66	252	224379	45.71	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.87	276	187447	47.24	mg/L	#	46
86)	Dibenz(a,h)anthracene	22.93	278	163862	47.95	mg/L	#	90
87)	Benzo(g,h,i)perylene	23.79	276	148202	45.28	mg/L	#	61

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061913.D Vial: 10
Acq On : 29 Dec 2006 6:17 pm Operator: GJ
Sample : D0602127-005MS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 8:31 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061913.D Vial: 10
Acq On : 29 Dec 2006 6:17 pm Operator: GJ
Sample : D0602127-005MS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31:01 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	132676	40.00	mg/L		-0.03
22) Naphthalene-d8	7.98	136	522475	40.00	mg/L		-0.04
37) Acenaphthene-d10	10.23	164	293031	40.00	mg/L		-0.04
57) Phenanthrene-d10	12.11	188	471280	40.00	mg/L		-0.05
70) Chrysene-d12	16.72	240	295250	40.00	mg/L		-0.07
80) Perylene-d12	19.80	264	171828	40.00	mg/L		-0.11
System Monitoring Compounds							
6) 2-Fluorophenol	4.70	112	178084	42.16	mg/L		-0.03
Spiked Amount 50.000			Recovery =	84.32%			
7) Phenol-d5	5.84	99	242119	44.22	mg/L		-0.03
Spiked Amount 50.000			Recovery =	88.44%			
23) Nitrobenzene-d5	7.08	82	219221	49.66	mg/L		-0.03
Spiked Amount 50.000			Recovery =	99.32%			
41) 2-Fluorobiphenyl	9.35	172	457334	49.50	mg/L		-0.04
Spiked Amount 50.000			Recovery =	99.00%			
61) 2,4,6-Tribromophenol	11.21	330	49490	43.78	mg/L		-0.05
Spiked Amount 50.000			Recovery =	87.56%			
73) Terphenyl-d14	14.62	244	380276	46.08	mg/L		-0.07
Spiked Amount 50.000			Recovery =	92.16%			
Target Compounds							Qvalue
2) 1,4-Dioxane	3.00	88	80108	41.23	mg/L	#	81
3) N-Nitrosodimethylamine	3.35	42	113439	44.90	mg/L		89
4) Pyridine	3.37	79	193318	38.34	mg/L	#	66
5) PGMEA	4.62	43	379981	41.61	mg/L	#	89
8) Phenol	5.86	94	266483	46.20	mg/L		91
9) Aniline	5.95	93	293358	43.92	mg/L		97
10) Bis(2-chloroethyl)ether	6.00	93	214484	45.19	mg/L		97
11) 2-Chlorophenol	6.10	128	223359	45.69	mg/L		98
12) 1,3-Dichlorobenzene	6.29	146	223210	41.72	mg/L		99
13) 1,4-Dichlorobenzene	6.35	146	228227	41.77	mg/L		99
14) Benzyl alcohol	6.50	108	145657	46.72	mg/L	#	79
15) 1,2-Dichlorobenzene	6.60	146	218628	42.89	mg/L		98
16) N-Methyl pyrrolidine (NMP)	6.62	99	147296	47.50	mg/L		99
17) 2-Methylphenol	6.66	108	201617	47.00	mg/L		99
18) Bis(2-chloroisopropyl)ethe	6.70	45	378782	41.85	mg/L	#	82
19) 4-Methylphenol	6.83	107	259023	47.68	mg/L	#	92
20) N-Nitrosodi-n-propylamine	6.89	70	153383	47.83	mg/L	#	80
21) Hexachloroethane	7.00	117	81481	40.53	mg/L	#	81
24) Nitrobenzene	7.10	77	229144	49.39	mg/L	#	83
25) Isophorone	7.39	82	400569	48.15	mg/L		94
26) 2-Nitrophenol	7.51	139	121765	46.60	mg/L	#	88
27) 2,4-Dimethylphenol	7.52	122	206006	48.68	mg/L	#	83
28) Benzoic acid	7.76	122	652487	234.39	mg/L	#	83
29) Bis(2-chloroethoxy)methane	7.65	93	246218	47.10	mg/L	#	92
30) 2,4-Dichlorophenol	7.80	162	176227	49.16	mg/L		98
31) 1,2,4-Trichlorobenzene	7.92	180	169786	43.97	mg/L		99
32) Naphthalene	8.01	128	621506	45.41	mg/L		99
33) 4-Chloroaniline	8.08	127	245672	51.35	mg/L		94
34) Hexachlorobutadiene	8.22	225	79520	39.16	mg/L		100
35) 4-Chloro-3-methylphenol	8.66	107	182916	49.94	mg/L		93
36) 2-Methylnaphthalene	8.88	142	427058	46.22	mg/L		99
38) Hexachlorocyclopentadiene	9.16	237	49046	21.04	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061913.D Vial: 10
Acq On : 29 Dec 2006 6:17 pm Operator: GJ
Sample : D0602127-005MS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31:01 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

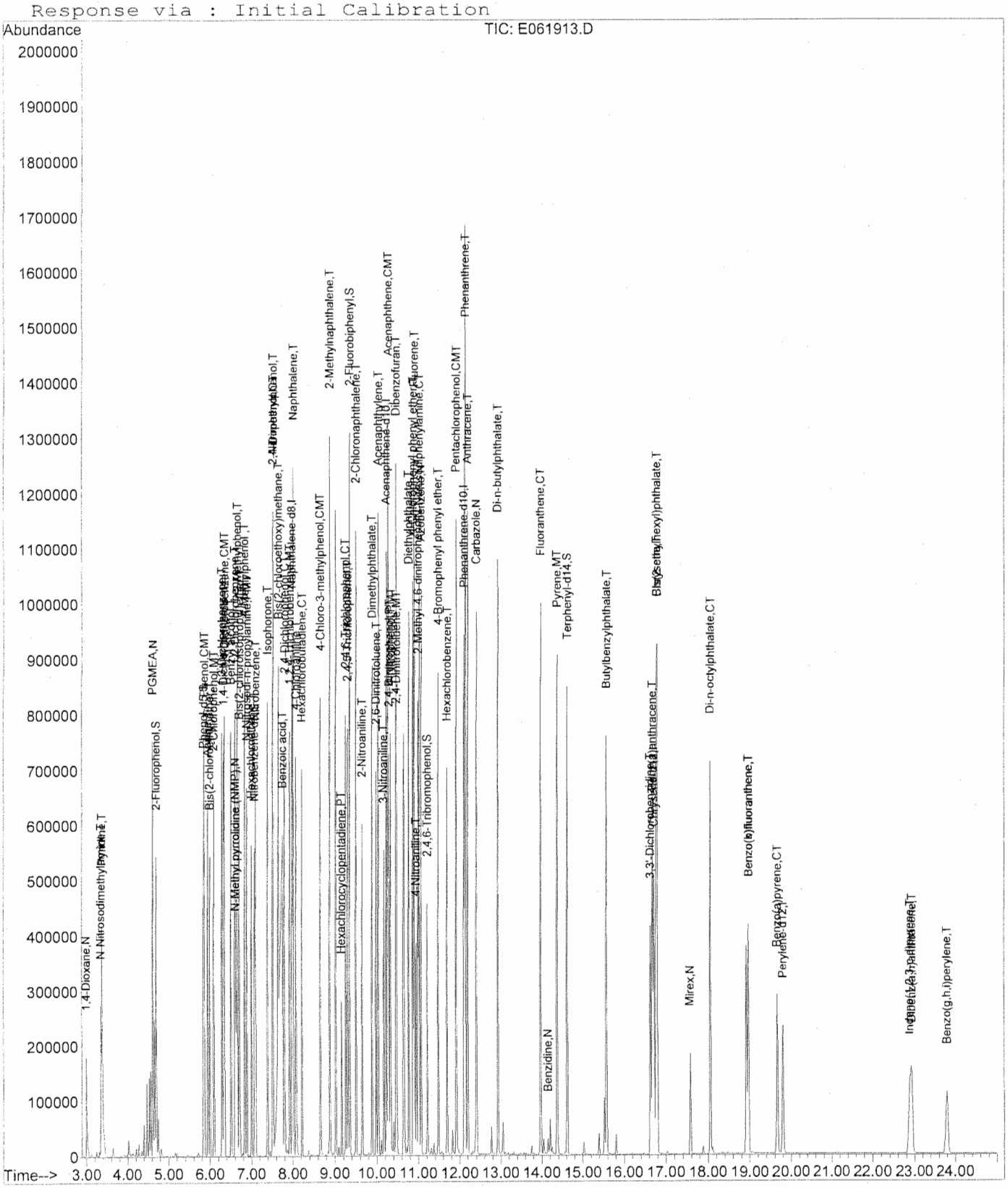
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.25	196	120117	49.77	mg/L		99
40)	2,4,5-Trichlorophenol	9.30	196	128373	49.08	mg/L		98
42)	2-Chloronaphthalene	9.50	162	378744	45.85	mg/L		98
43)	2-Nitroaniline	9.65	65	117407	46.25	mg/L		90
44)	Dimethylphthalate	9.89	163	436639	48.20	mg/L		97
45)	Acenaphthylene	10.04	152	629701	46.89	mg/L		100
46)	2,6-Dinitrotoluene	9.98	165	103576	48.90	mg/L		94
47)	3-Nitroaniline	10.17	138	106507	56.14	mg/L		87
48)	Acenaphthene	10.27	154	437031	49.37	mg/L		86
49)	2,4-Dinitrophenol	10.29	184	120480	95.28	mg/L	#	1
50)	4-Nitrophenol	10.33	109	106449	102.56	mg/L	#	55
51)	Dibenzofuran	10.46	168	553727	47.86	mg/L		95
52)	2,4-Dinitrotoluene	10.48	165	134201	49.59	mg/L	#	90
53)	Fluorene	10.89	166	454401	48.25	mg/L		100
54)	Diethylphthalate	10.76	149	444357	48.69	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.87	204	202570	49.82	mg/L		95
56)	4-Nitroaniline	10.94	138	90566	52.64	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	10.99	198	146053	92.91	mg/L	#	85
59)	N-Nitrosodiphenylamine	11.02	169	311318	46.27	mg/L		93
60)	Azobenzene	11.06	77	430411	44.68	mg/L	#	95
62)	4-Bromophenyl phenyl ether	11.48	248	103012	41.61	mg/L		94
63)	Hexachlorobenzene	11.69	284	104886	40.25	mg/L		92
64)	Pentachlorophenol	11.91	266	148474	85.97	mg/L		99
65)	Phenanthrene	12.14	178	622035	47.15	mg/L		99
66)	Anthracene	12.20	178	612468	47.45	mg/L		99
67)	Carbazole	12.40	167	535315	68.11	mg/L		99
68)	Di-n-butylphthalate	12.92	149	739367	51.20	mg/L		99
69)	Fluoranthene	13.98	202	603757	53.72	mg/L	#	95
71)	Benzidine	14.15	184	19136	5.12	mg/L	#	98
72)	Pyrene	14.37	202	596853	46.78	mg/L		100
74)	Butylbenzylphthalate	15.58	149	277973	48.41	mg/L		94
75)	3,3'-Dichlorobenzidine	16.63	252	140634	69.40	mg/L	#	96
76)	Benz(a)anthracene	16.68	228	401711	46.84	mg/L		99
77)	Chrysene	16.77	228	373158	46.35	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.79	149	397739	53.37	mg/L		98
79)	Mirex	17.58	272	37561	23.42	mg/L		100
81)	Di-n-octylphthalate	18.06	149	585733	52.87	mg/L		99
82)	Benzo(b)fluoranthene	18.97	252	276854	44.43	mg/L	#	94
83)	Benzo(k)fluoranthene	18.97	252	276854	45.83	mg/L	#	94
84)	Benzo(a)pyrene	19.66	252	224379	45.71	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.87	276	187447	47.24	mg/L	#	46
86)	Dibenz(a,h)anthracene	22.93	278	163862	47.95	mg/L	#	90
87)	Benzo(g,h,i)perylene	23.79	276	148202	45.28	mg/L	#	61

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061913.D Vial: 10
Acq On : 29 Dec 2006 6:17 pm Operator: GJ
Sample : D0602127-005MS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31 2006 Quant Results File: BA061226.RES

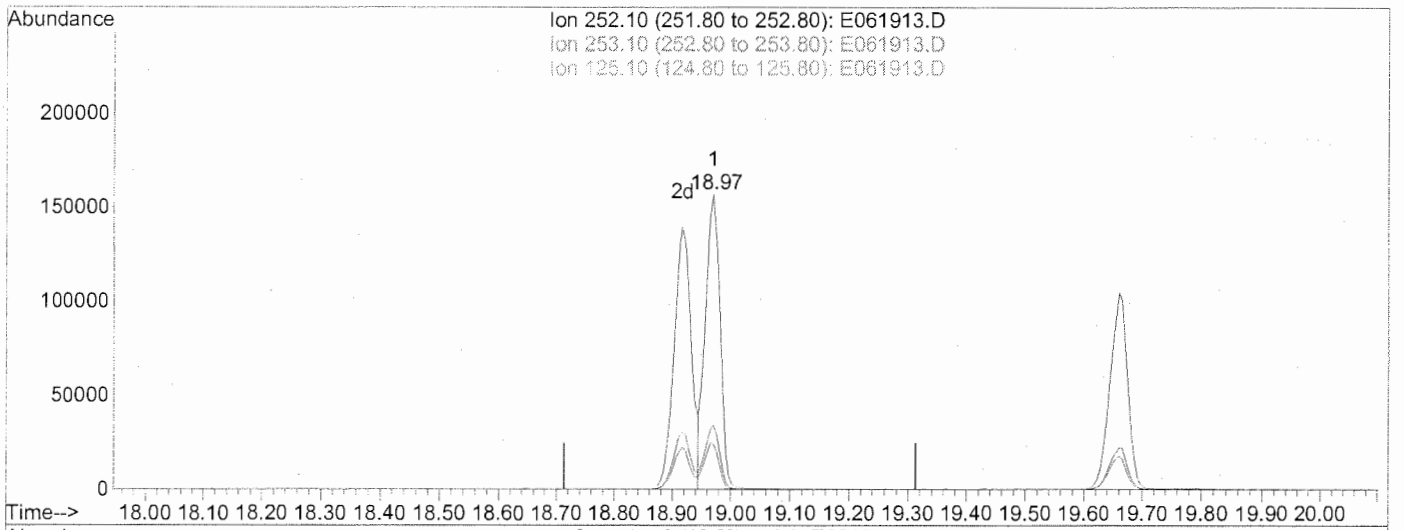
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

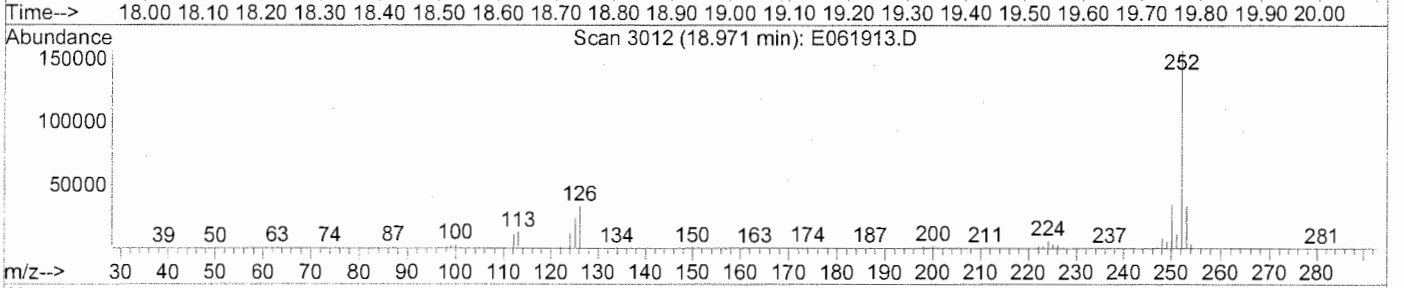


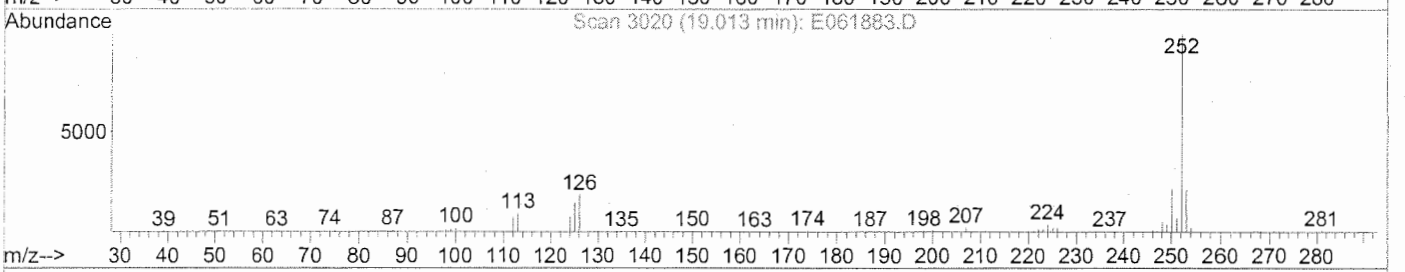
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061913.D Vial: 10
Acq On : 29 Dec 2006 6:17 pm Operator: GJ
Sample : D0602127-005MS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061913.D

(82) Benzo(b)fluoranthene (T)

18.97min 44.43mg/L

response 276854

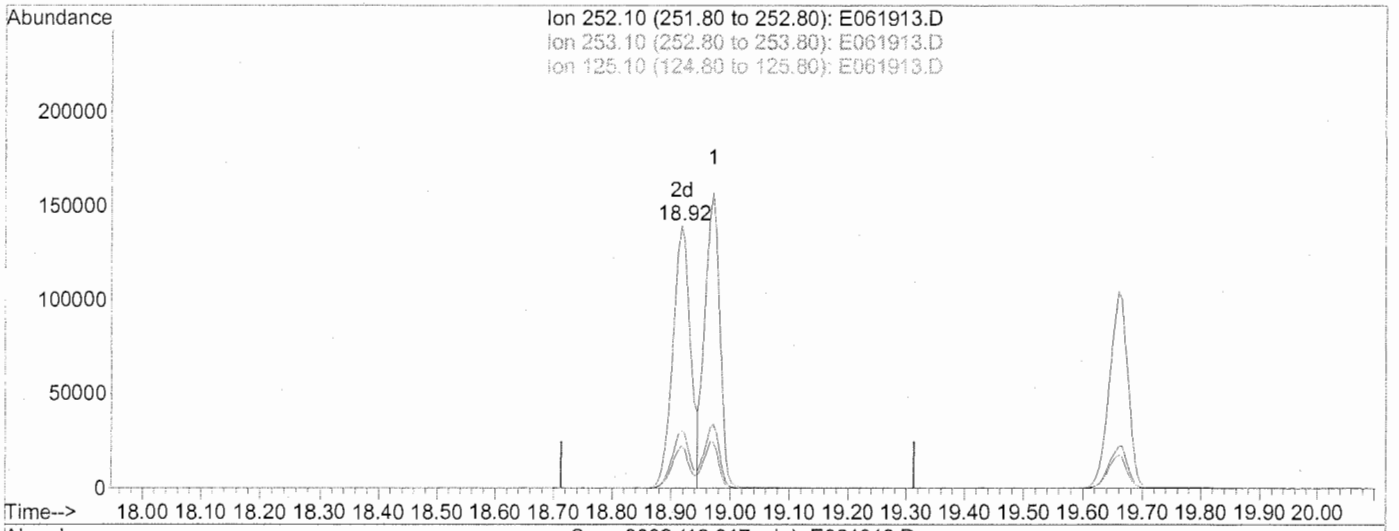
Ion	Exp%	Act%
252.10	100	100
253.10	22.10	21.67
125.10	7.90	15.64#
0.00	0.00	0.00

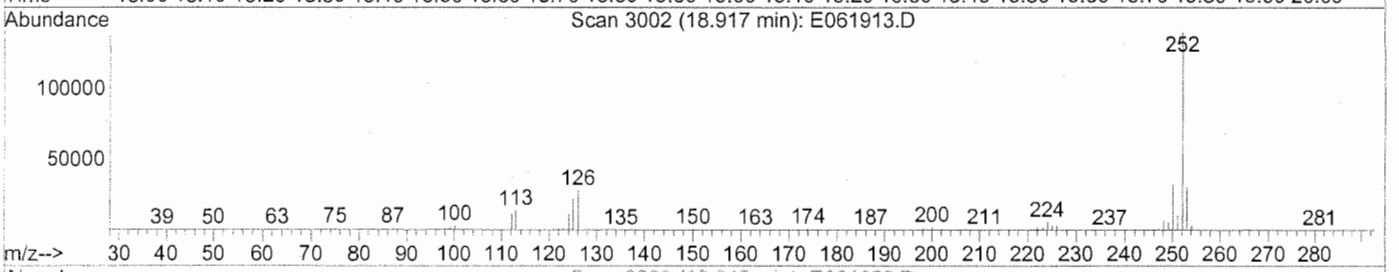
Bef.

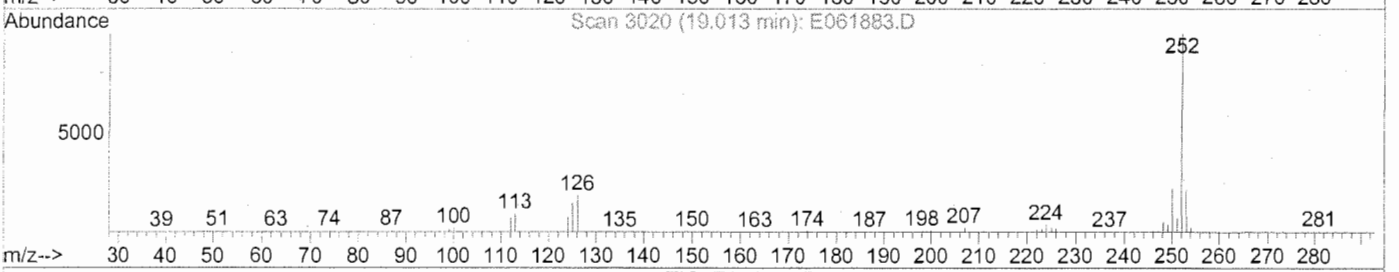
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061913.D Vial: 10
Acq On : 29 Dec 2006 6:17 pm Operator: GJ
Sample : D0602127-005MS 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 8:31 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061913.D

(82) Benzo(b)fluoranthene (T)

18.92min 46.45mg/L m

response 289436

Ion	Exp%	Act%
252.10	100	100
253.10	22.10	20.72
125.10	7.90	14.96#
0.00	0.00	0.00

Aft
w 1/3/07
- wrong peak

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	01/02/2007

Analysis Lot:	DWG0700100	**Prep Lot:**	DWG0700103	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76021	**Prep Date:**	12/26/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061914.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 18:49	**Quant Date:**	01/02/2007 08:33	**Vial:**	11
Run Type:	DMS			**Dilution:**	1.0
Lab ID:	DWG0700103-2 -- D0602127-005DMS			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.33	0.00?	152	126108	40.00	OK
2	Naphthalene-d8	7.98	-0.01?	136	494507	40.00	OK
3	Acenaphthene-d10	10.23	0.00?	164	279886	40.00	OK
4	Phenanthrene-d10	12.11	0.00?	188	451327	40.00	OK
5	Chrysene-d12	16.71	-0.01?	240	307966	40.00	OK
6	Perylene-d12	19.80	0.00?	264	194280	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.70	-0.01	0.00	112	173299	43.16	86	23-115	OK	
1	Phenol-d5	5.84	0.00	0.00	99	233489	44.87	90	23-121	OK	
2	Nitrobenzene-d5	7.08	0.00	0.00	82	215444	51.56	103	42-122	OK	
3	2-Fluorobiphenyl	9.35	0.00	0.00	172	450740	51.07	102	47-110	OK	
4	2,4,6-Tribromophenol	11.22	0.00	0.00	330	48957	45.22	90	31-112	OK	
5	Terphenyl-d14	14.62	0.00	0.00	244	395052	45.90	92	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.00		0.00	88	77118	41.76	39.8		
1	N-Nitrosodimethylamine	3.35		0.00	42	109922	45.78	43.6		
1	Pyridine	3.37		0.00	79	193855	40.44	38.5		
1	PGMEA	4.62		0.00	43	383325	44.16	42.1		
1	Phenol	5.86		0.00	94	257002	46.88	44.6		
1	Aniline	5.95		0.00	93	300533	47.34	45.1		
1	Bis(2-chloroethyl) Ether	6.00		0.00	93	210688	46.71	44.5		
1	2-Chlorophenol	6.10		0.00	128	217977	46.91	44.7		
1	1,3-Dichlorobenzene	6.29		0.00	146	208337	40.96	39.0		
1	1,4-Dichlorobenzene	6.35		0.00	146	215073	41.41	39.4		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061914.D	**Instrument:**	MSE
Acqu Date:	12/29/2006 18:49 **Quant Date:** 01/02/2007 08:33	**Vial:**	11
Run Type:	DMS	**Dilution:**	1.0
Lab ID:	DWG0700103-2 -- D0602127-005DMS	**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.50	-0.01	0.00	108	143913	48.57	46.3		
1	1,2-Dichlorobenzene	6.60		0.00	146	204860	42.28	40.3		
1	1-Methyl-2-pyrrolidinone	6.61	-0.01	0.00	99	148727	50.46	48.1		
1	2-Methylphenol	6.66		0.00	108	196444	48.18	45.9		
1	Bis(2-Chloroisopropyl)ether	6.70		0.00	45	373959	43.47	41.4		
1	4-Methylphenol	6.83	-0.01	0.00	107	253201	49.04	46.7		
1	N-Nitrosodi-n-propylamine	6.89		0.00	70	153230	50.27	47.9		
1	Hexachloroethane	7.00		0.00	117	74022	38.74	36.9		
2	Nitrobenzene	7.10	-0.01	0.00	77	223852	50.98	48.6		
2	Isophorone	7.39		0.00	82	407431	51.75	49.3		
2	2-Nitrophenol	7.51		0.00	139	120302	48.65	46.3		
2	2,4-Dimethylphenol	7.52		0.00	122	203297	50.76	48.3		
2	Benzoic acid	7.76	-0.01	0.00	122	653182	247.91	236		
2	bis(2-Chloroethoxy)methane	7.65		0.00	93	244433	49.41	47.1		
2	2,4-Dichlorophenol	7.80		0.00	162	174998	51.58	49.1		
2	1,2,4-Trichlorobenzene	7.92		0.00	180	162935	44.59	42.5		
2	Naphthalene	8.01		0.00	128	605371	46.73	44.5		
2	4-Chloroaniline	8.08		0.00	127	244537	54.01	51.4		
2	Hexachlorobutadiene	8.22		0.00	225	73421	38.20	36.4		
2	4-Chloro-3-methylphenol	8.66		0.00	107	182511	52.65	50.1		
2	2-Methylnaphthalene	8.88		0.00	142	420832	48.12	45.8		
3	Hexachlorocyclopentadiene	9.16		0.00	237	47811	21.47	20.4		
3	2,4,6-Trichlorophenol	9.25		0.00	196	119029	51.63	49.2		
3	2,4,5-Trichlorophenol	9.30	-0.01	0.00	196	128316	51.37	48.9		
3	2-Chloronaphthalene	9.50		0.00	162	374802	47.51	45.2		
3	2-Nitroaniline	9.65		0.00	65	118384	48.82	46.5		
3	Dimethyl Phthalate	9.89		0.00	163	440313	50.89	48.5		
3	Acenaphthylene	10.04		0.00	152	630375	49.14	46.8		
3	2,6-Dinitrotoluene	9.98	-0.01	0.00	165	105239	52.02	49.5		
3	3-Nitroaniline	10.17		0.00	138	105852	58.05	55.3		
3	Acenaphthene	10.27		0.00	154	438668	51.88	49.4		
3	2,4-Dinitrophenol	10.29		0.00	184	119708	99.12	94.4		
3	4-Nitrophenol	10.33	-0.01	0.00	109	105579	106.50	101		
3	Dibenzofuran	10.46	-0.01	0.00	168	551375	49.89	47.5		
3	2,4-Dinitrotoluene	10.48		0.00	165	135471	52.41	49.9		
3	Fluorene	10.89	-0.01	0.00	166	460159	51.16	48.7		
3	Diethyl Phthalate	10.76		0.00	149	443312	50.86	48.4		
3	4-Chlorophenyl Phenyl Ether	10.87		0.00	204	199213	51.30	48.9		
3	4-Nitroaniline	10.95		0.00	138	92905	55.92	53.3		
4	2-Methyl-4,6-dinitrophenol	10.99		0.00	198	147536	98.00	93.3		
4	N-Nitrosodiphenylamine	11.02		0.00	169	300302	46.60	44.4		
4	Azobenzene	11.06	-0.01	0.00	77	434075	47.05	44.8		
4	4-Bromophenyl Phenyl Ether	11.48		0.00	248	103299	43.57	41.5		

U: Undetected at or above MDL
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D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061914.D	**Instrument:**	MSE
Acqu Date:	12/29/2006 18:49 **Quant Date:** 01/02/2007 08:33	**Vial:**	11
Run Type:	DMS	**Dilution:**	1.0
Lab ID:	DWG0700103-2 -- D0602127-005DMS	**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.69		0.00	284	105472	42.26	40.2		
4	Pentachlorophenol	11.91	-0.01	0.00	266	151274	91.46	87.1		
4	Phenanthrene	12.14		0.00	178	631236	49.97	47.6		
4	Anthracene	12.20		0.00	178	621735	50.30	47.9		
4	Carbazole	12.40		0.00	167	553456	71.44	68.0		
4	Di-n-butyl Phthalate	12.92	-0.01	0.00	149	748040	54.09	51.5		
4	Fluoranthene	13.98		0.00	202	627832	58.33	55.6		
5	Benzidine	14.16		0.00	184	25741	6.61	6.30	J	
5	Pyrene	14.37	-0.01	0.00	202	623317	46.84	44.6		
5	Butyl Benzyl Phthalate	15.58		0.00	149	297017	49.59	47.2		
5	3,3'-Dichlorobenzidine	16.63	-0.01	0.00	252	157217	73.60	70.1		
5	Benz(a)anthracene	16.68		0.00	228	442863	49.50	47.1		
5	Chrysene	16.76	-0.01	0.00	228	413452	49.24	46.9		
5	Bis(2-ethylhexyl) Phthalate	16.79		0.00	149	427224	54.96	52.3		
5	Mirex	17.57	-0.01	0.00	272	38597	23.07	22.0		
6	Di-n-octyl Phthalate	18.06		0.00	149	661248	52.79	50.3		
6	Benzo(b)fluoranthene	18.92		0.00	252	339025**m**	48.12	45.8		
6	Benzo(k)fluoranthene	18.97	-0.01	0.00	252	336415	49.26	46.9		
6	Benzo(a)pyrene	19.66	-0.01	0.00	252	272308	49.06	46.7		
6	Indeno(1,2,3-cd)pyrene	22.88	-0.01	0.00	276	228050	50.83	48.4		
6	Dibenz(a,h)anthracene	22.93		0.00	278	196815	50.94	48.5		
6	Benzo(g,h,i)perylene	23.79	-0.02	0.00	276	174942	47.28	45.0		

Prep Amount: 1050 ml **Dilution:** 1.0
Prep Final Vol: 1 ml **Unit Factor:** 1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061914.D Vial: 11
Acq On : 29 Dec 2006 6:49 pm Operator: GJ
Sample : D0602127-005MSD 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31:12 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	126108	40.00	mg/L		-0.03
22) Naphthalene-d8	7.98	136	494507	40.00	mg/L		-0.04
37) Acenaphthene-d10	10.23	164	279886	40.00	mg/L		-0.04
57) Phenanthrene-d10	12.11	188	451327	40.00	mg/L		-0.05
70) Chrysene-d12	16.71	240	307966	40.00	mg/L		-0.08
80) Perylene-d12	19.80	264	194280	40.00	mg/L		-0.11
System Monitoring Compounds							
6) 2-Fluorophenol	4.70	112	173299	43.16	mg/L		-0.03
Spiked Amount 50.000			Recovery =	86.32%			
7) Phenol-d5	5.84	99	233489	44.87	mg/L		-0.03
Spiked Amount 50.000			Recovery =	89.74%			
23) Nitrobenzene-d5	7.08	82	215444	51.56	mg/L		-0.03
Spiked Amount 50.000			Recovery =	103.12%			
41) 2-Fluorobiphenyl	9.35	172	450740	51.07	mg/L		-0.04
Spiked Amount 50.000			Recovery =	102.14%			
61) 2,4,6-Tribromophenol	11.22	330	48957	45.22	mg/L		-0.04
Spiked Amount 50.000			Recovery =	90.44%			
73) Terphenyl-d14	14.62	244	395052	45.90	mg/L		-0.07
Spiked Amount 50.000			Recovery =	91.80%			
Target Compounds							Qvalue
2) 1,4-Dioxane	3.00	88	77118	41.76	mg/L	#	80
3) N-Nitrosodimethylamine	3.35	42	109922	45.78	mg/L		88
4) Pyridine	3.37	79	193855	40.44	mg/L	#	65
5) PGMEA	4.62	43	383325	44.16	mg/L	#	89
8) Phenol	5.86	94	257002	46.88	mg/L		91
9) Aniline	5.95	93	300533	47.34	mg/L		97
10) Bis(2-chloroethyl)ether	6.00	93	210688	46.71	mg/L		97
11) 2-Chlorophenol	6.10	128	217977	46.91	mg/L		98
12) 1,3-Dichlorobenzene	6.29	146	208337	40.96	mg/L		99
13) 1,4-Dichlorobenzene	6.35	146	215073	41.41	mg/L		99
14) Benzyl alcohol	6.50	108	143913	48.57	mg/L	#	78
15) 1,2-Dichlorobenzene	6.60	146	204860	42.28	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.61	99	148727	50.46	mg/L		99
17) 2-Methylphenol	6.66	108	196444	48.18	mg/L		100
18) Bis(2-chloroisopropyl)ethe	6.70	45	373959	43.47	mg/L	#	82
19) 4-Methylphenol	6.83	107	253201	49.04	mg/L	#	93
20) N-Nitrosodi-n-propylamine	6.89	70	153230	50.27	mg/L	#	80
21) Hexachloroethane	7.00	117	74022	38.74	mg/L		81
24) Nitrobenzene	7.10	77	223852	50.98	mg/L	#	82
25) Isophorone	7.39	82	407431	51.75	mg/L		94
26) 2-Nitrophenol	7.51	139	120302	48.65	mg/L	#	88
27) 2,4-Dimethylphenol	7.52	122	203297	50.76	mg/L	#	83
28) Benzoic acid	7.76	122	653182	247.91	mg/L	#	83
29) Bis(2-chloroethoxy)methane	7.65	93	244433	49.41	mg/L	#	93
30) 2,4-Dichlorophenol	7.80	162	174998	51.58	mg/L		98
31) 1,2,4-Trichlorobenzene	7.92	180	162935	44.59	mg/L		99
32) Naphthalene	8.01	128	605371	46.73	mg/L		99
33) 4-Chloroaniline	8.08	127	244537	54.01	mg/L		94
34) Hexachlorobutadiene	8.22	225	73421	38.20	mg/L		99
35) 4-Chloro-3-methylphenol	8.66	107	182511	52.65	mg/L		93
36) 2-Methylnaphthalene	8.88	142	420832	48.12	mg/L		99
38) Hexachlorocyclopentadiene	9.16	237	47811	21.47	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061914.D Vial: 11
Acq On : 29 Dec 2006 6:49 pm Operator: GJ
Sample : D0602127-005MSD 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31:12 2006 Quant Results File: BA061226.RES

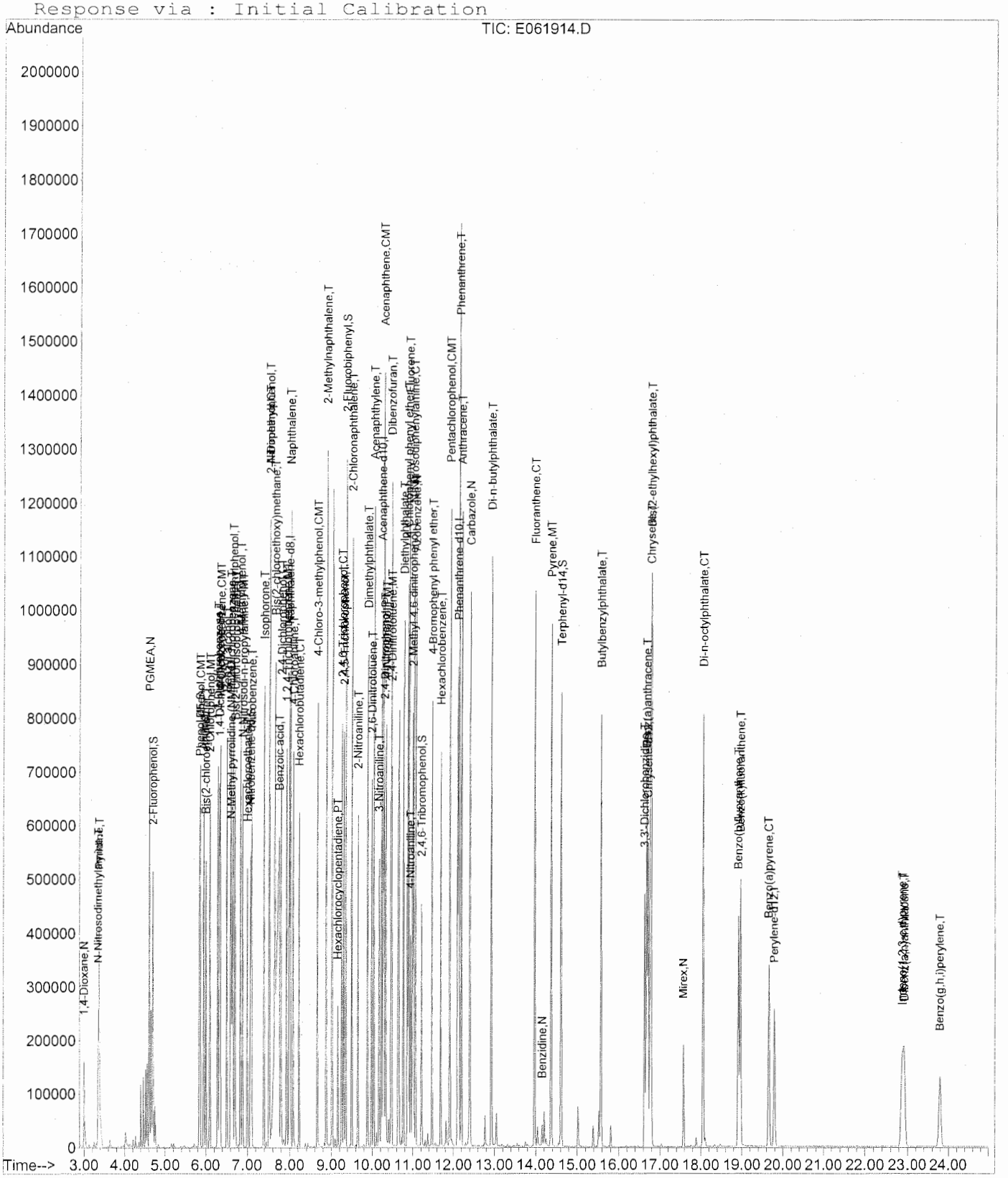
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.25	196	119029	51.63	mg/L		99
40)	2,4,5-Trichlorophenol	9.30	196	128316	51.37	mg/L		97
42)	2-Chloronaphthalene	9.50	162	374802	47.51	mg/L		98
43)	2-Nitroaniline	9.65	65	118384	48.82	mg/L		89
44)	Dimethylphthalate	9.89	163	440313	50.89	mg/L		97
45)	Acenaphthylene	10.04	152	630375	49.14	mg/L		100
46)	2,6-Dinitrotoluene	9.98	165	105239	52.02	mg/L		93
47)	3-Nitroaniline	10.17	138	105852	58.05	mg/L		88
48)	Acenaphthene	10.27	154	438668	51.88	mg/L		86
49)	2,4-Dinitrophenol	10.29	184	119708	99.12	mg/L	#	1
50)	4-Nitrophenol	10.33	109	105579	106.50	mg/L	#	54
51)	Dibenzofuran	10.46	168	551375	49.89	mg/L		95
52)	2,4-Dinitrotoluene	10.48	165	135471	52.41	mg/L	#	89
53)	Fluorene	10.89	166	460159	51.16	mg/L		99
54)	Diethylphthalate	10.76	149	443312	50.86	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.87	204	199213	51.30	mg/L		94
56)	4-Nitroaniline	10.95	138	92905	55.92	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	10.99	198	147536	98.00	mg/L	#	87
59)	N-Nitrosodiphenylamine	11.02	169	300302	46.60	mg/L		93
60)	Azobenzene	11.06	77	434075	47.05	mg/L		96
62)	4-Bromophenyl phenyl ether	11.48	248	103299	43.57	mg/L		94
63)	Hexachlorobenzene	11.69	284	105472	42.26	mg/L		92
64)	Pentachlorophenol	11.91	266	151274	91.46	mg/L		98
65)	Phenanthrene	12.14	178	631236	49.97	mg/L		100
66)	Anthracene	12.20	178	621735	50.30	mg/L		100
67)	Carbazole	12.40	167	553456	71.44	mg/L		99
68)	Di-n-butylphthalate	12.92	149	748040	54.09	mg/L		99
69)	Fluoranthene	13.98	202	627832	58.33	mg/L	#	94
71)	Benzidine	14.16	184	25741	6.61	mg/L	#	95
72)	Pyrene	14.37	202	623317	46.84	mg/L		99
74)	Butylbenzylphthalate	15.58	149	297017	49.59	mg/L		94
75)	3,3'-Dichlorobenzidine	16.63	252	157217	73.60	mg/L	#	96
76)	Benz(a)anthracene	16.68	228	442863	49.50	mg/L		100
77)	Chrysene	16.76	228	413452	49.24	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.79	149	427224	54.96	mg/L		97
79)	Mirex	17.57	272	38597	23.07	mg/L		99
81)	Di-n-octylphthalate	18.06	149	661248	52.79	mg/L		100
82)	Benzo(b)fluoranthene	18.92	252	339025m	48.12	mg/L		
83)	Benzo(k)fluoranthene	18.97	252	336415	49.26	mg/L	#	94
84)	Benzo(a)pyrene	19.66	252	272308	49.06	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.88	276	228050	50.83	mg/L	#	45
86)	Dibenz(a,h)anthracene	22.93	278	196815	50.94	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.79	276	174942	47.28	mg/L	#	61

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061914.D Vial: 11
Acq On : 29 Dec 2006 6:49 pm Operator: GJ
Sample : D0602127-005MSD 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 8:33 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061914.D Vial: 11
Acq On : 29 Dec 2006 6:49 pm Operator: GJ
Sample : D0602127-005MSD 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31:12 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	126108	40.00	mg/L		-0.03
22) Naphthalene-d8	7.98	136	494507	40.00	mg/L		-0.04
37) Acenaphthene-d10	10.23	164	279886	40.00	mg/L		-0.04
57) Phenanthrene-d10	12.11	188	451327	40.00	mg/L		-0.05
70) Chrysene-d12	16.71	240	307966	40.00	mg/L		-0.08
80) Perylene-d12	19.80	264	194280	40.00	mg/L		-0.11
System Monitoring Compounds							
6) 2-Fluorophenol	4.70	112	173299	43.16	mg/L		-0.03
Spiked Amount 50.000			Recovery =	86.32%			
7) Phenol-d5	5.84	99	233489	44.87	mg/L		-0.03
Spiked Amount 50.000			Recovery =	89.74%			
23) Nitrobenzene-d5	7.08	82	215444	51.56	mg/L		-0.03
Spiked Amount 50.000			Recovery =	103.12%			
41) 2-Fluorobiphenyl	9.35	172	450740	51.07	mg/L		-0.04
Spiked Amount 50.000			Recovery =	102.14%			
61) 2,4,6-Tribromophenol	11.22	330	48957	45.22	mg/L		-0.04
Spiked Amount 50.000			Recovery =	90.44%			
73) Terphenyl-d14	14.62	244	395052	45.90	mg/L		-0.07
Spiked Amount 50.000			Recovery =	91.80%			
Target Compounds							Qvalue
2) 1,4-Dioxane	3.00	88	77118	41.76	mg/L	#	80
3) N-Nitrosodimethylamine	3.35	42	109922	45.78	mg/L		88
4) Pyridine	3.37	79	193855	40.44	mg/L	#	65
5) PGMEA	4.62	43	383325	44.16	mg/L	#	89
8) Phenol	5.86	94	257002	46.88	mg/L		91
9) Aniline	5.95	93	300533	47.34	mg/L		97
10) Bis(2-chloroethyl)ether	6.00	93	210688	46.71	mg/L		97
11) 2-Chlorophenol	6.10	128	217977	46.91	mg/L		98
12) 1,3-Dichlorobenzene	6.29	146	208337	40.96	mg/L		99
13) 1,4-Dichlorobenzene	6.35	146	215073	41.41	mg/L		99
14) Benzyl alcohol	6.50	108	143913	48.57	mg/L	#	78
15) 1,2-Dichlorobenzene	6.60	146	204860	42.28	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.61	99	148727	50.46	mg/L		99
17) 2-Methylphenol	6.66	108	196444	48.18	mg/L		100
18) Bis(2-chloroisopropyl)ethe	6.70	45	373959	43.47	mg/L	#	82
19) 4-Methylphenol	6.83	107	253201	49.04	mg/L	#	93
20) N-Nitrosodi-n-propylamine	6.89	70	153230	50.27	mg/L	#	80
21) Hexachloroethane	7.00	117	74022	38.74	mg/L		81
24) Nitrobenzene	7.10	77	223852	50.98	mg/L	#	82
25) Isophorone	7.39	82	407431	51.75	mg/L		94
26) 2-Nitrophenol	7.51	139	120302	48.65	mg/L	#	88
27) 2,4-Dimethylphenol	7.52	122	203297	50.76	mg/L	#	83
28) Benzoic acid	7.76	122	653182	247.91	mg/L	#	83
29) Bis(2-chloroethoxy)methane	7.65	93	244433	49.41	mg/L	#	93
30) 2,4-Dichlorophenol	7.80	162	174998	51.58	mg/L		98
31) 1,2,4-Trichlorobenzene	7.92	180	162935	44.59	mg/L		99
32) Naphthalene	8.01	128	605371	46.73	mg/L		99
33) 4-Chloroaniline	8.08	127	244537	54.01	mg/L		94
34) Hexachlorobutadiene	8.22	225	73421	38.20	mg/L		99
35) 4-Chloro-3-methylphenol	8.66	107	182511	52.65	mg/L		93
36) 2-Methylnaphthalene	8.88	142	420832	48.12	mg/L		99
38) Hexachlorocyclopentadiene	9.16	237	47811	21.47	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061914.D Vial: 11
Acq On : 29 Dec 2006 6:49 pm Operator: GJ
Sample : D0602127-005MSD 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31:12 2006 Quant Results File: BA061226.RES

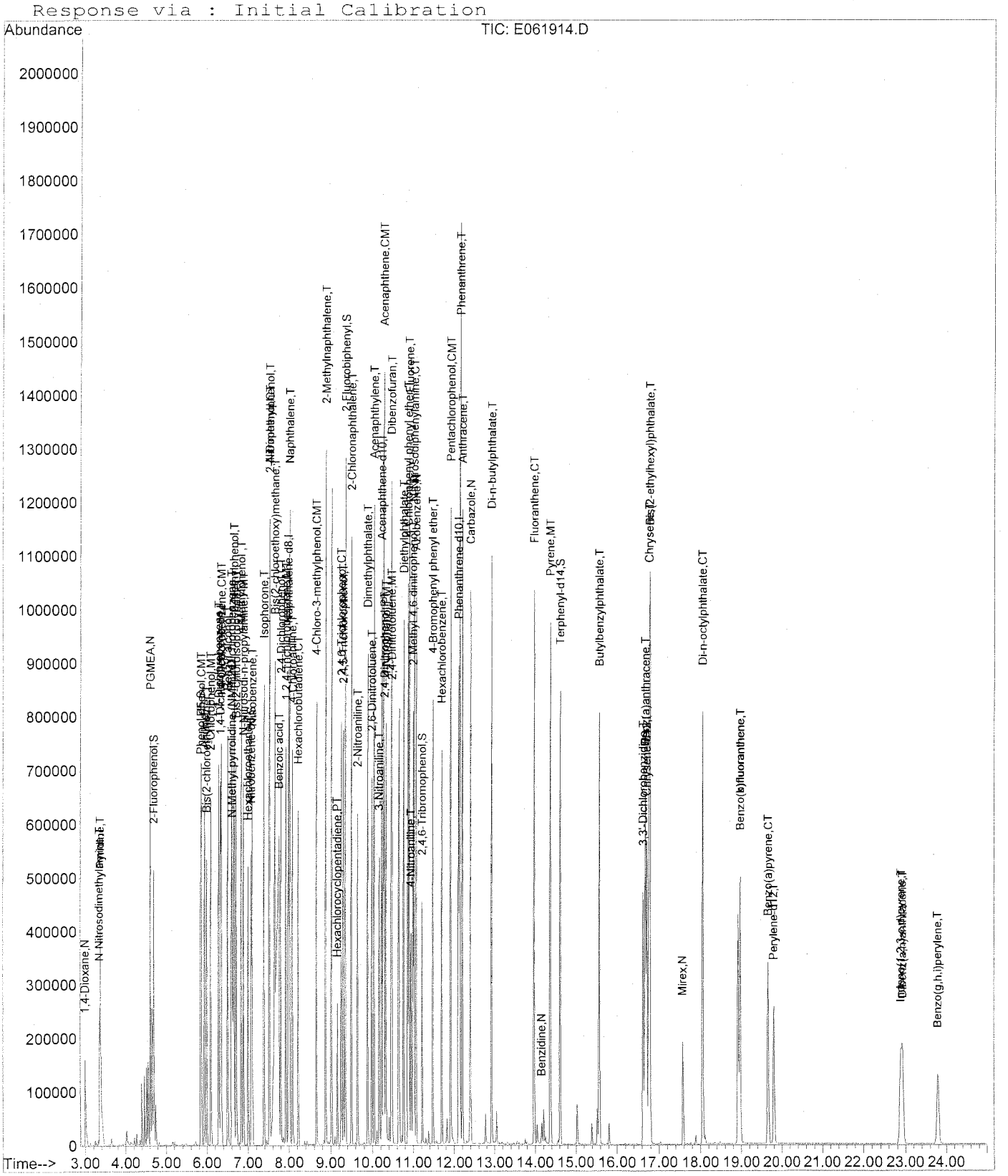
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	2,4,6-Trichlorophenol	9.25	196	119029	51.63	mg/L		99
40)	2,4,5-Trichlorophenol	9.30	196	128316	51.37	mg/L		97
42)	2-Chloronaphthalene	9.50	162	374802	47.51	mg/L		98
43)	2-Nitroaniline	9.65	65	118384	48.82	mg/L		89
44)	Dimethylphthalate	9.89	163	440313	50.89	mg/L		97
45)	Acenaphthylene	10.04	152	630375	49.14	mg/L		100
46)	2,6-Dinitrotoluene	9.98	165	105239	52.02	mg/L		93
47)	3-Nitroaniline	10.17	138	105852	58.05	mg/L		88
48)	Acenaphthene	10.27	154	438668	51.88	mg/L		86
49)	2,4-Dinitrophenol	10.29	184	119708	99.12	mg/L	#	1
50)	4-Nitrophenol	10.33	109	105579	106.50	mg/L	#	54
51)	Dibenzofuran	10.46	168	551375	49.89	mg/L		95
52)	2,4-Dinitrotoluene	10.48	165	135471	52.41	mg/L	#	89
53)	Fluorene	10.89	166	460159	51.16	mg/L		99
54)	Diethylphthalate	10.76	149	443312	50.86	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.87	204	199213	51.30	mg/L		94
56)	4-Nitroaniline	10.95	138	92905	55.92	mg/L	#	87
58)	2-Methyl-4,6-dinitrophenol	10.99	198	147536	98.00	mg/L	#	87
59)	N-Nitrosodiphenylamine	11.02	169	300302	46.60	mg/L		93
60)	Azobenzene	11.06	77	434075	47.05	mg/L		96
62)	4-Bromophenyl phenyl ether	11.48	248	103299	43.57	mg/L		94
63)	Hexachlorobenzene	11.69	284	105472	42.26	mg/L		92
64)	Pentachlorophenol	11.91	266	151274	91.46	mg/L		98
65)	Phenanthrene	12.14	178	631236	49.97	mg/L		100
66)	Anthracene	12.20	178	621735	50.30	mg/L		100
67)	Carbazole	12.40	167	553456	71.44	mg/L		99
68)	Di-n-butylphthalate	12.92	149	748040	54.09	mg/L		99
69)	Fluoranthene	13.98	202	627832	58.33	mg/L	#	94
71)	Benzidine	14.16	184	25741	6.61	mg/L	#	95
72)	Pyrene	14.37	202	623317	46.84	mg/L		99
74)	Butylbenzylphthalate	15.58	149	297017	49.59	mg/L		94
75)	3,3'-Dichlorobenzidine	16.63	252	157217	73.60	mg/L	#	96
76)	Benz(a)anthracene	16.68	228	442863	49.50	mg/L		100
77)	Chrysene	16.76	228	413452	49.24	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.79	149	427224	54.96	mg/L		97
79)	Mirex	17.57	272	38597	23.07	mg/L		99
81)	Di-n-octylphthalate	18.06	149	661248	52.79	mg/L		100
82)	Benzo(b)fluoranthene	18.97	252	336415	47.75	mg/L	#	94
83)	Benzo(k)fluoranthene	18.97	252	336415	49.26	mg/L	#	94
84)	Benzo(a)pyrene	19.66	252	272308	49.06	mg/L	#	93
85)	Indeno(1,2,3-c,d)pyrene	22.88	276	228050	50.83	mg/L	#	45
86)	Dibenz(a,h)anthracene	22.93	278	196815	50.94	mg/L	#	92
87)	Benzo(g,h,i)perylene	23.79	276	174942	47.28	mg/L	#	61

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061914.D Vial: 11
Acq On : 29 Dec 2006 6:49 pm Operator: GJ
Sample : D0602127-005MSD 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31 2006 Quant Results File: BA061226.RES

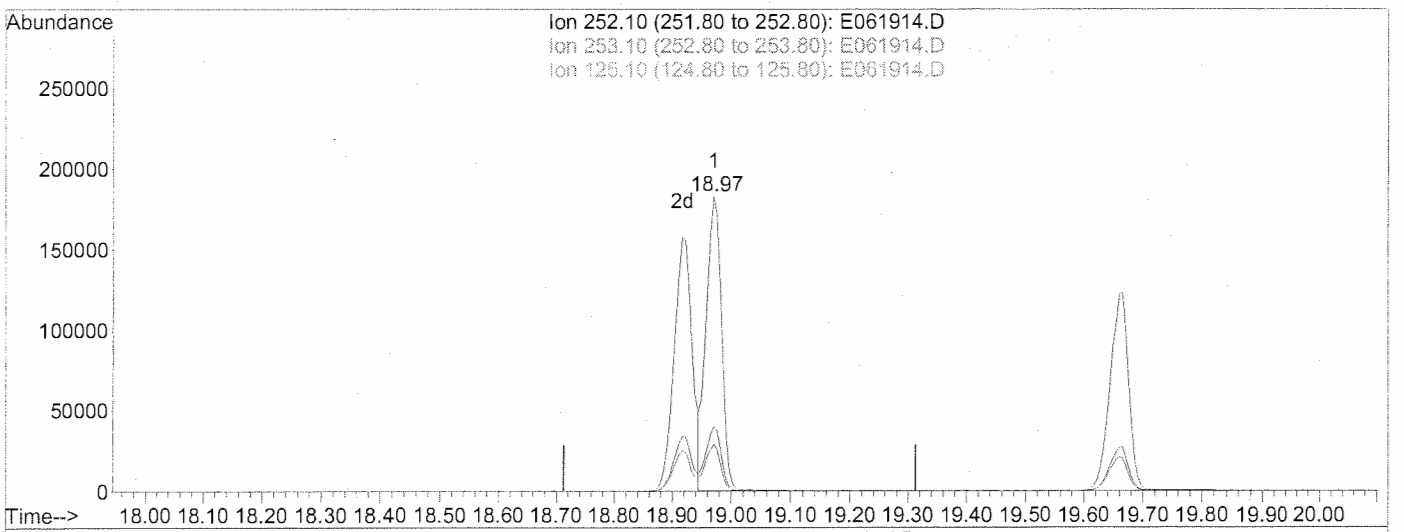
Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

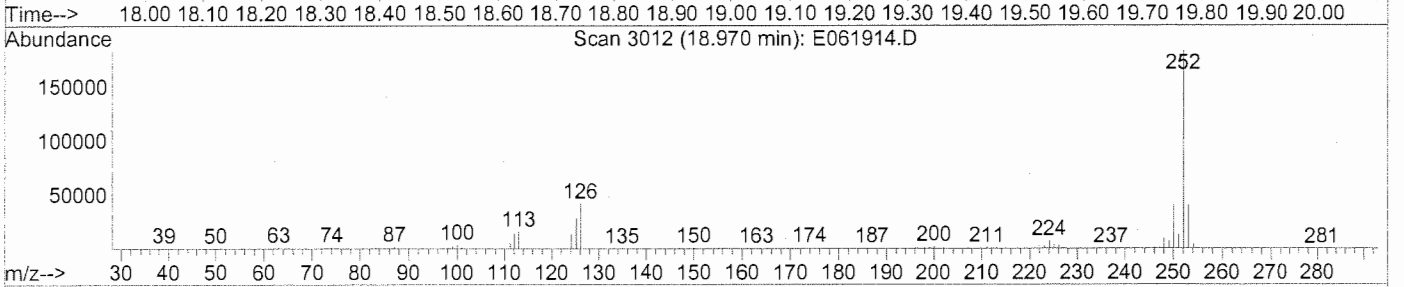


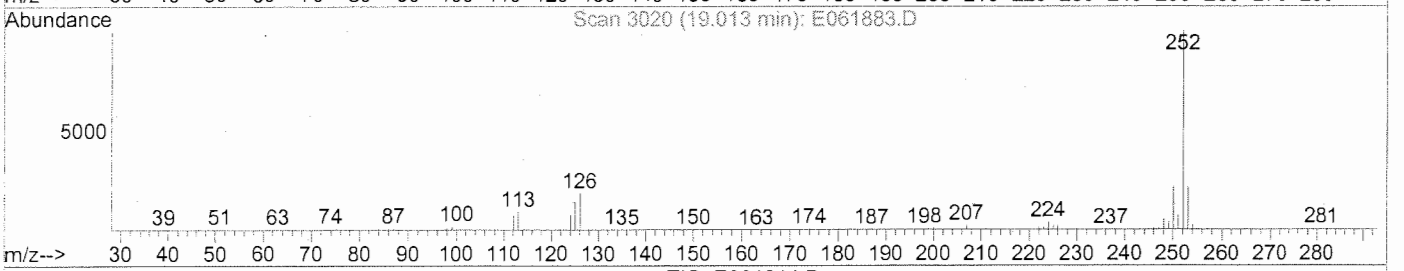
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061914.D Vial: 11
Acq On : 29 Dec 2006 6:49 pm Operator: GJ
Sample : D0602127-005MSD 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:31 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061914.D

(82) Benzo(b)fluoranthene (T)

18.97min 47.75mg/L

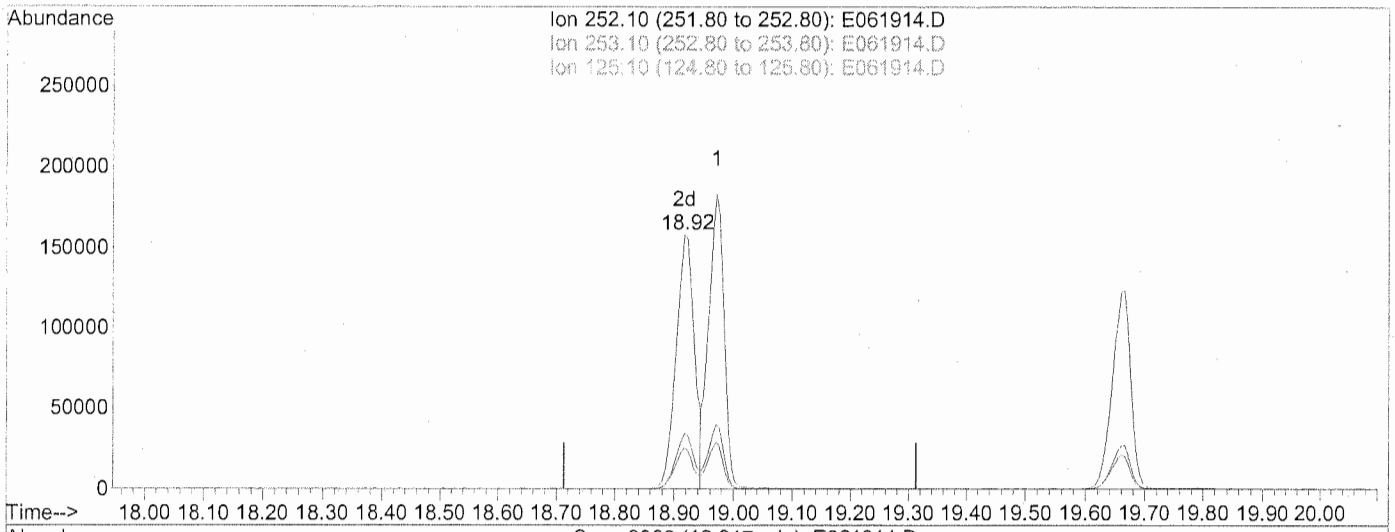
response 336415

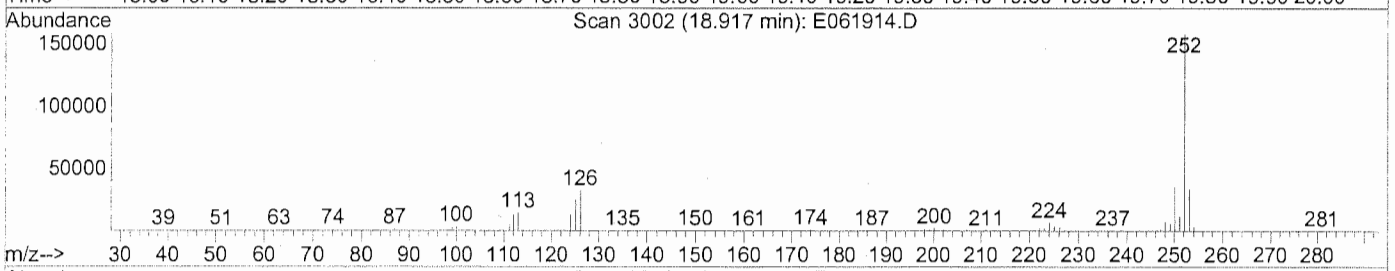
Ion	Exp%	Act%
252.10	100	100
253.10	22.10	21.77
125.10	7.90	15.53#
0.00	0.00	0.00

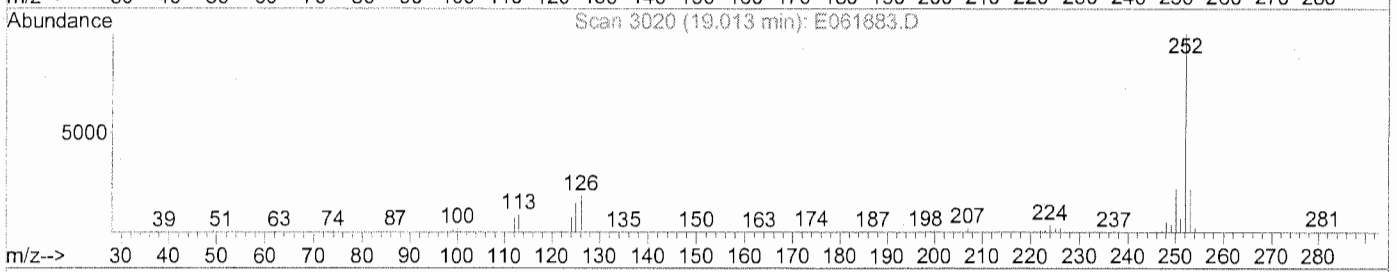
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061229\E061914.D Vial: 11
Acq On : 29 Dec 2006 6:49 pm Operator: GJ
Sample : D0602127-005MSD 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 8:33 2007 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Multiple Level Calibration







TIC: E061914.D

(82) Benzo(b)fluoranthene (T)

18.92min 48.12mg/L m

response 339025

Ion	Exp%	Act%
252.10	100	100
253.10	22.10	21.60
125.10	7.90	15.42#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061912.D Vial: 9
Acq On : 29 Dec 2006 5:45 pm Operator: GJ
Sample : D0602127-005 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:28:32 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

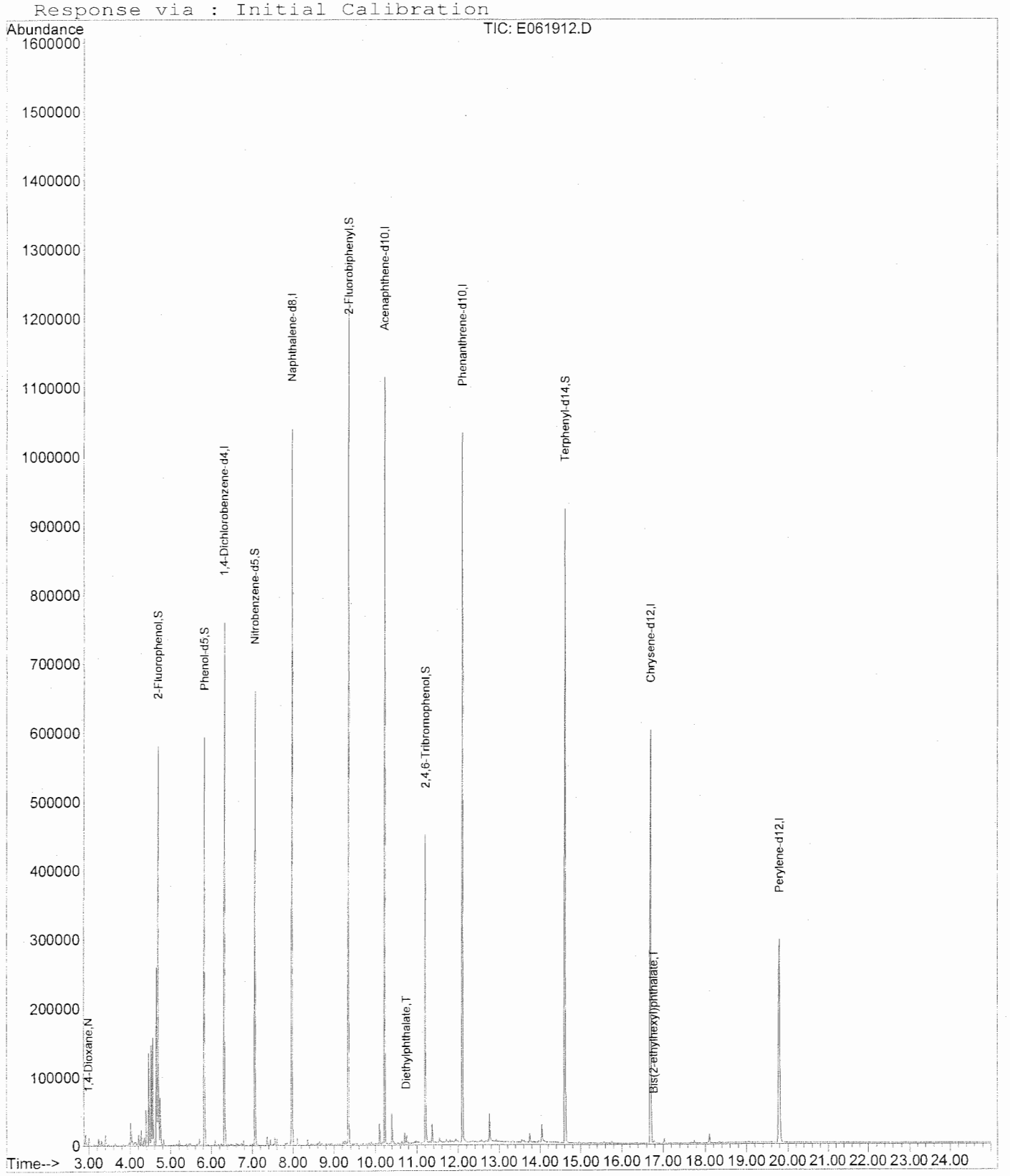
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	141065	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	552169	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	309729	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.10	188	485558	40.00	mg/L	-0.05
70) Chrysene-d12	16.71	240	349749	40.00	mg/L	-0.09
80) Perylene-d12	19.80	264	231681	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	189319	42.15	mg/L	-0.03
Spiked Amount 50.000			Recovery =	84.30%		
7) Phenol-d5	5.84	99	257658	44.26	mg/L	-0.03
Spiked Amount 50.000			Recovery =	88.52%		
23) Nitrobenzene-d5	7.07	82	233965	50.15	mg/L	-0.03
Spiked Amount 50.000			Recovery =	100.30%		
41) 2-Fluorobiphenyl	9.35	172	482803	49.44	mg/L	-0.04
Spiked Amount 50.000			Recovery =	98.88%		
61) 2,4,6-Tribromophenol	11.21	330	49867	42.82	mg/L	-0.05
Spiked Amount 50.000			Recovery =	85.64%		
73) Terphenyl-d14	14.62	244	415415	42.50	mg/L	-0.07
Spiked Amount 50.000			Recovery =	85.00%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	3352	1.62	mg/L	98
54) Diethylphthalate	10.75	149	2168	0.22	mg/L #	85
78) Bis(2-ethylhexyl)phthalate	16.78	149	2127	0.24	mg/L #	94

a 1/2/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061912.D Vial: 9
Acq On : 29 Dec 2006 5:45 pm Operator: GJ
Sample : D0602127-005 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 8:27 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061912.D Vial: 9
Acq On : 29 Dec 2006 5:45 pm Operator: GJ
Sample : D0602127-005 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:28:32 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

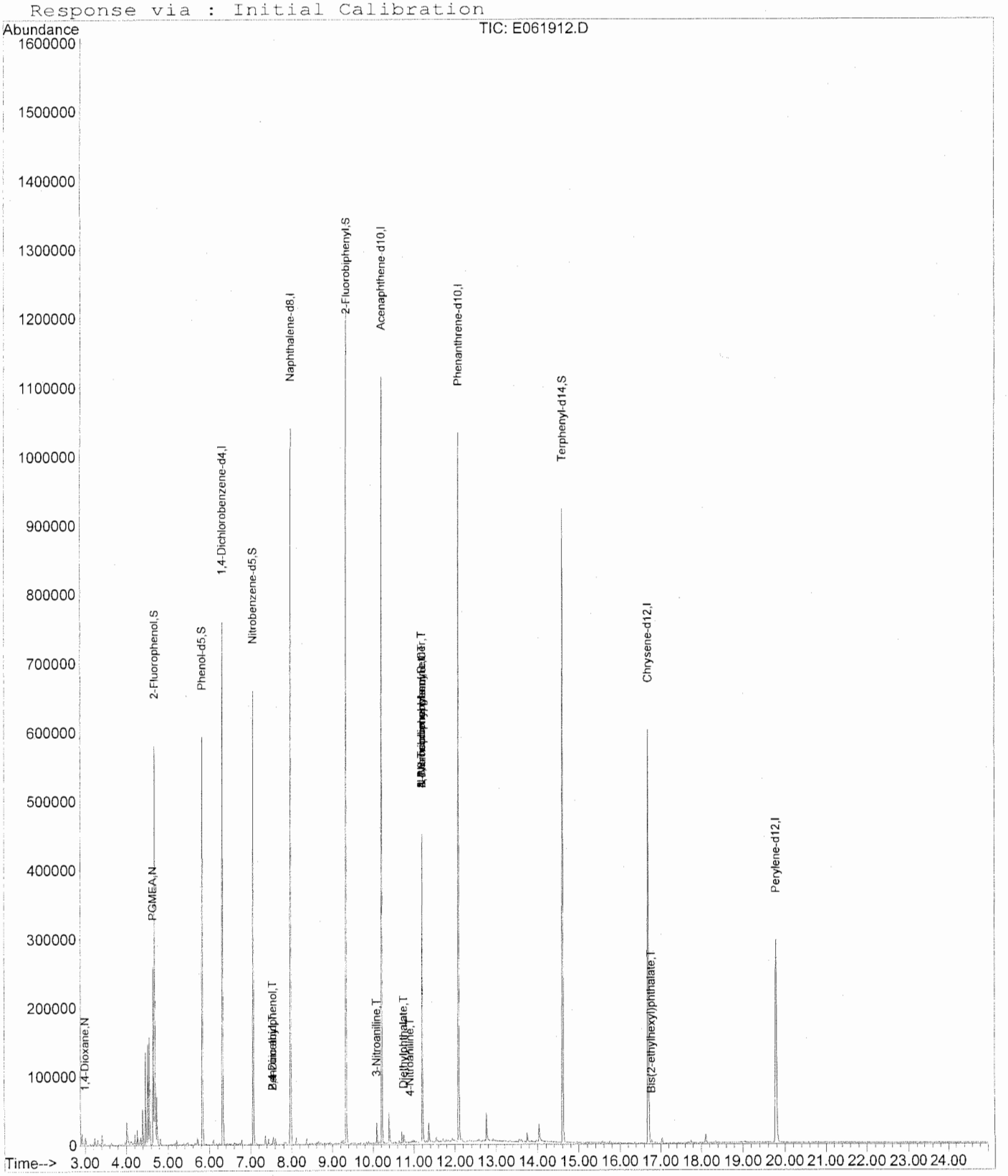
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	141065	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	552169	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	309729	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.10	188	485558	40.00	mg/L	-0.05
70) Chrysene-d12	16.71	240	349749	40.00	mg/L	-0.09
80) Perylene-d12	19.80	264	231681	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	189319	42.15	mg/L	-0.03
Spiked Amount 50.000			Recovery =	84.30%		
7) Phenol-d5	5.84	99	257658	44.26	mg/L	-0.03
Spiked Amount 50.000			Recovery =	88.52%		
23) Nitrobenzene-d5	7.07	82	233965	50.15	mg/L	-0.03
Spiked Amount 50.000			Recovery =	100.30%		
41) 2-Fluorobiphenyl	9.35	172	482803	49.44	mg/L	-0.04
Spiked Amount 50.000			Recovery =	98.88%		
61) 2,4,6-Tribromophenol	11.21	330	49867	42.82	mg/L	-0.05
Spiked Amount 50.000			Recovery =	85.64%		
73) Terphenyl-d14	14.62	244	415415	42.50	mg/L	-0.07
Spiked Amount 50.000			Recovery =	85.00%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	3352	1.62	mg/L	98
5) PGMEA	4.66	43	21750	2.24	mg/L #	62
27) 2,4-Dimethylphenol	7.55	122	2983	0.67	mg/L #	1
28) Benzoic acid	7.55	122	2983	1.01	mg/L #	81
47) 3-Nitroaniline	10.10	138	559	2.08	mg/L #	1
54) Diethylphthalate	10.75	149	2168	0.22	mg/L #	85
56) 4-Nitroaniline	10.90	138	60	2.16	mg/L #	5
59) N-Nitrosodiphenylamine	11.21	169	2278	0.33	mg/L #	37
62) 4-Bromophenyl phenyl ether	11.21	248	3068	1.20	mg/L #	1
78) Bis(2-ethylhexyl)phthalate	16.78	149	2127	0.24	mg/L #	94

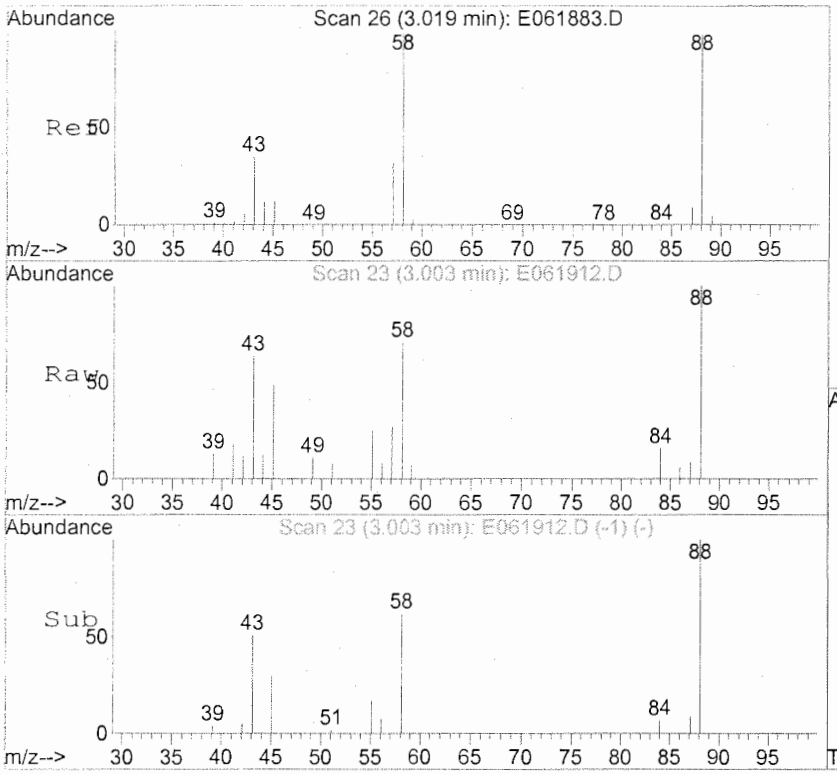
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061912.D Vial: 9
Acq On : 29 Dec 2006 5:45 pm Operator: GJ
Sample : D0602127-005 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:28 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

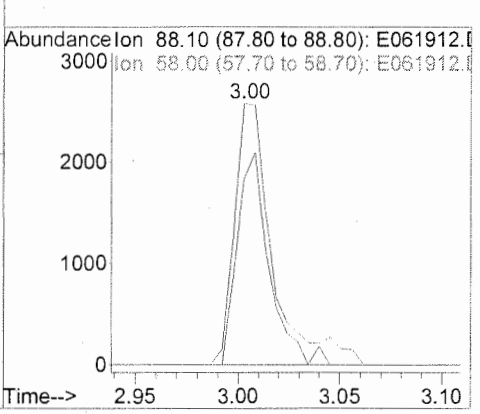


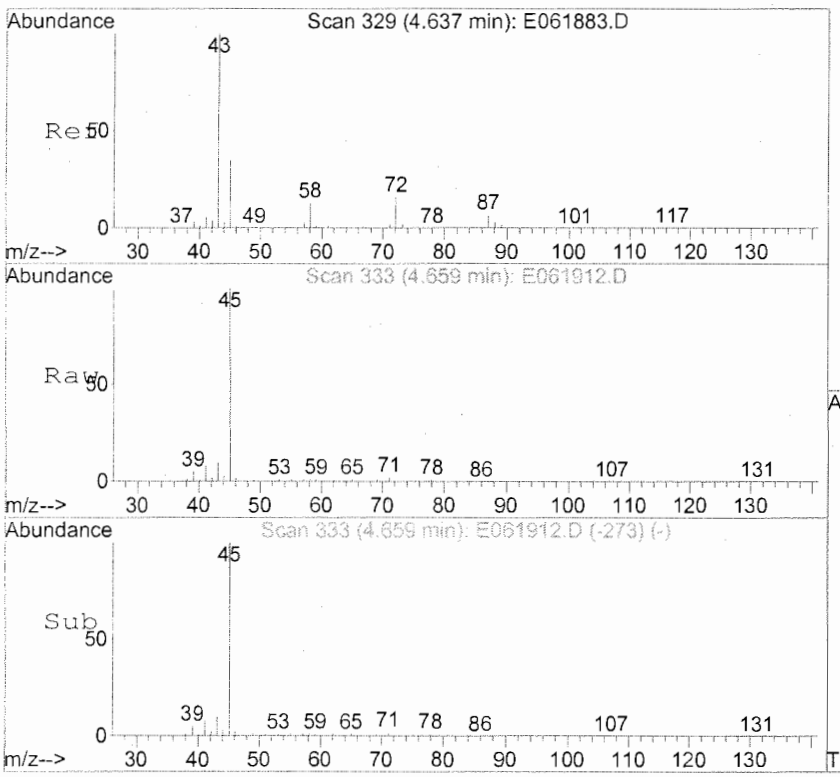


#2
1,4-Dioxane
Concen: 1.62 mg/L
RT: 3.00 min Scan# 23
Delta R.T. -0.02 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

Tgt Ion: 88 Resp: 3352

Ion	Ratio	Lower	Upper
88	100		
58	68.8	53.5	80.3

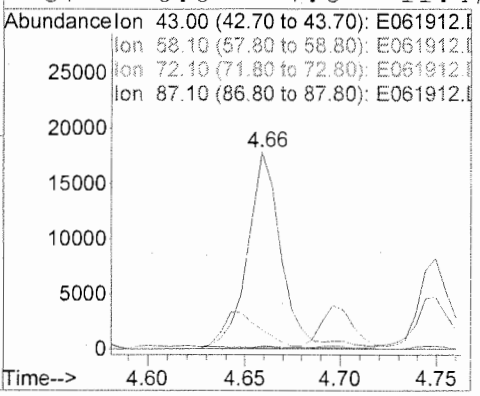


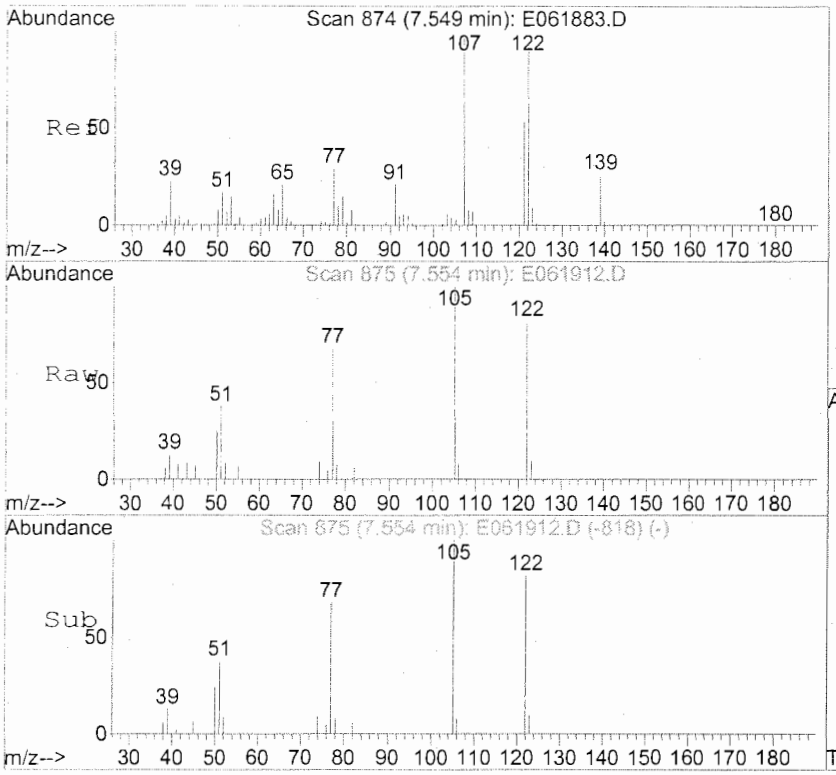


#5
PGMEA
Concen: 2.24 mg/L
RT: 4.66 min Scan# 333
Delta R.T. 0.02 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

Tgt Ion: 43 Resp: 21750

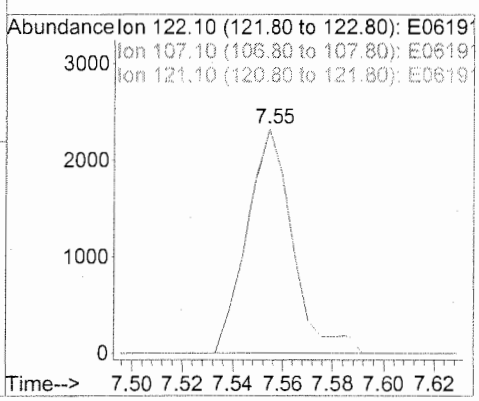
Ion	Ratio	Lower	Upper
43	100		
58	21.9	9.7	14.5#
72	0.6	20.4	30.6#
87	0.0	7.6	11.4#

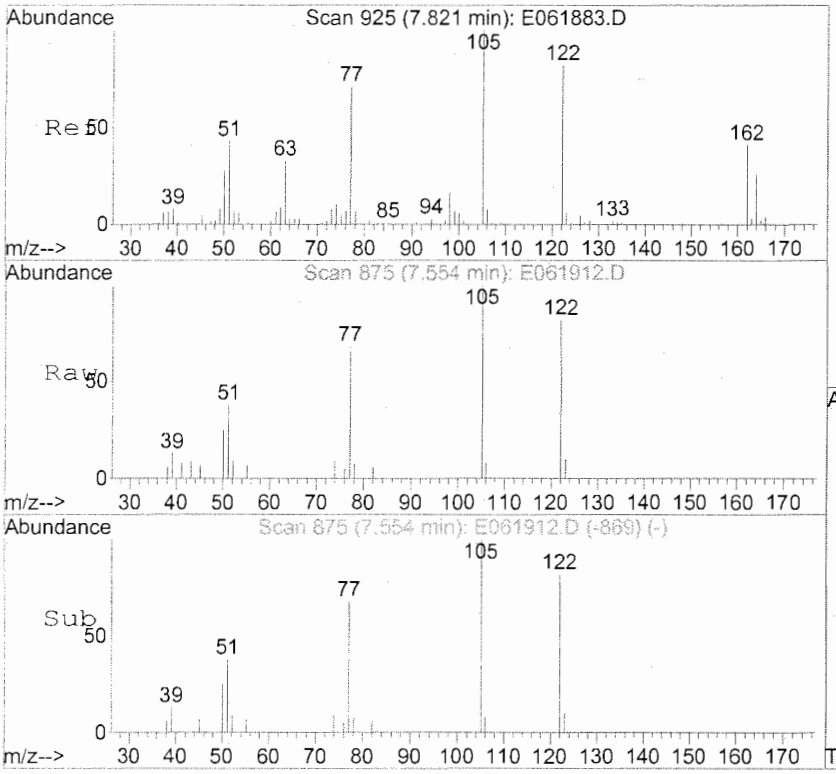




#27
2,4-Dimethylphenol
Concen: 0.67 mg/L
RT: 7.55 min Scan# 875
Delta R.T. 0.01 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

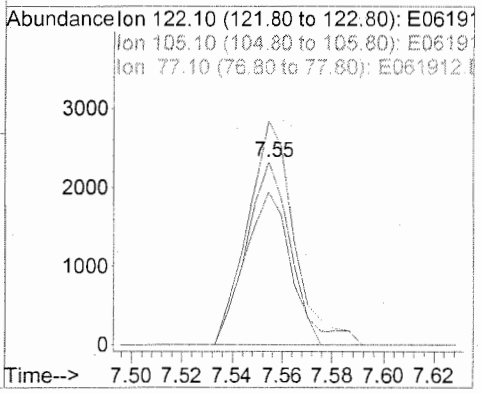
Tgt Ion:122	Resp:	2983	
Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

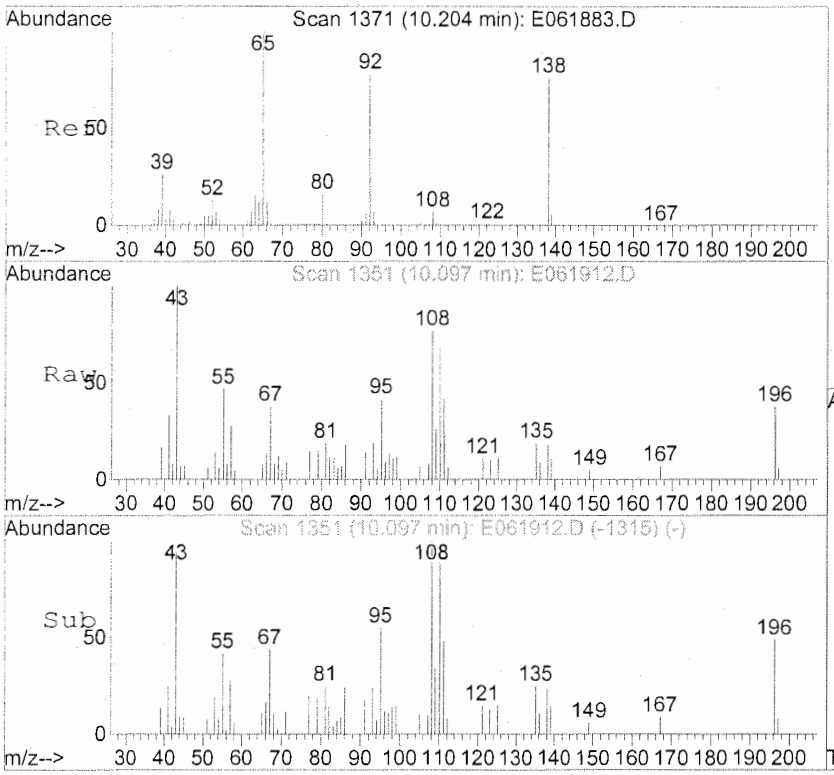




#28
Benzoic acid
Concen: 1.01 mg/L
RT: 7.55 min Scan# 875
Delta R.T. -0.27 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

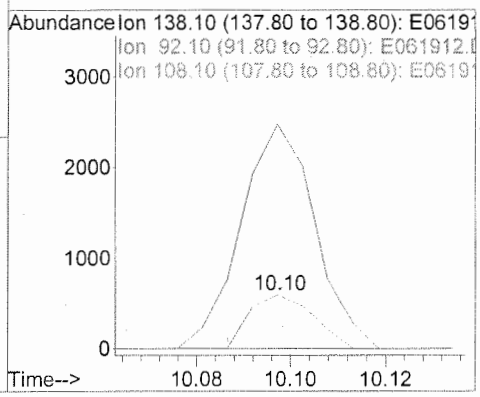
Tgt Ion:122	Resp:	2983	
Ion	Ratio	Lower	Upper
122	100		
105	124.5	110.2	165.2
77	82.4	89.8	134.8#

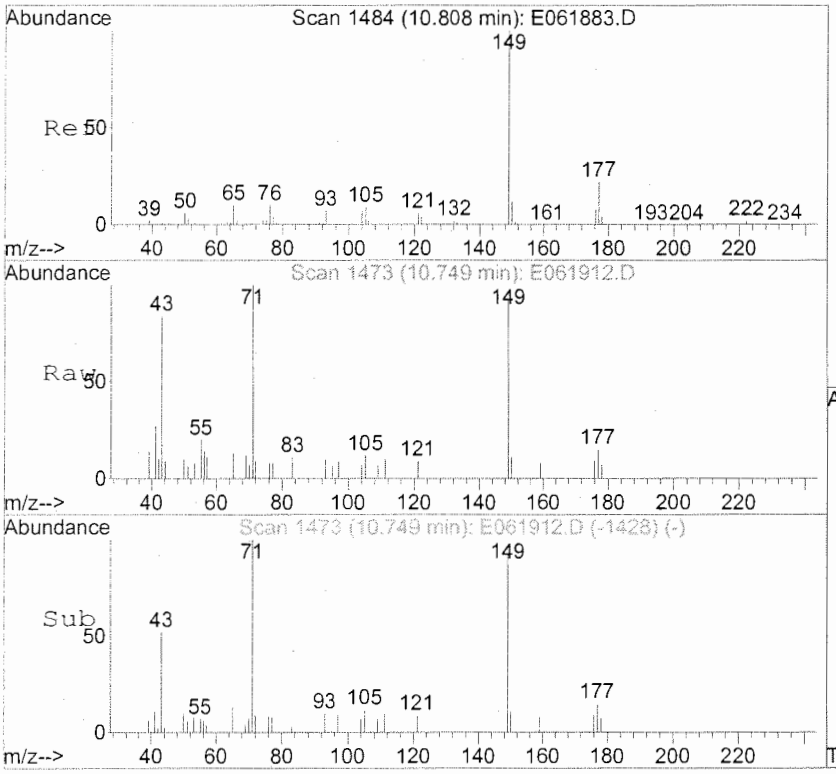




#47
3-Nitroaniline
Concen: 2.08 mg/L
RT: 10.10 min Scan# 1351
Delta R.T. -0.11 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

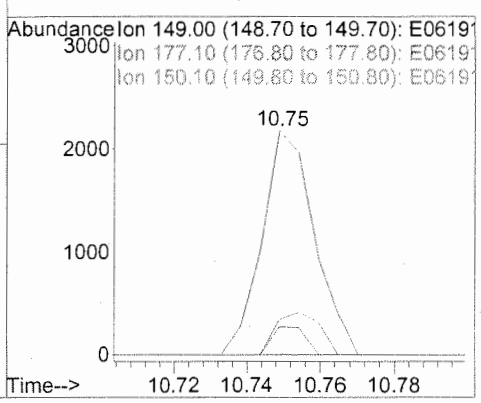
Tgt Ion:138	Resp:	559	
Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	485.9	8.1	12.1#

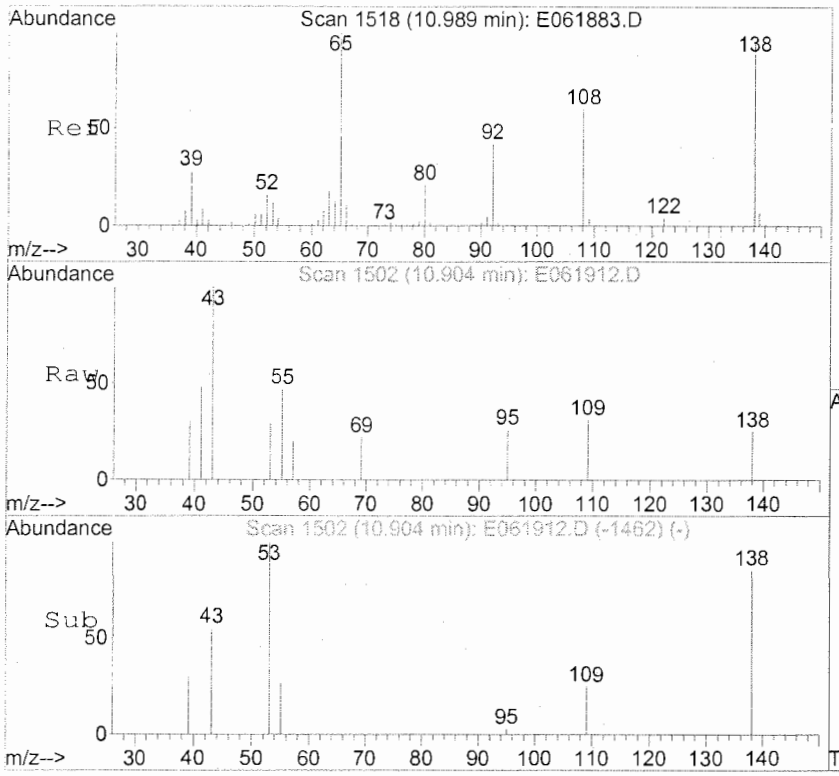




#54
Diethylphthalate
Concen: 0.22 mg/L
RT: 10.75 min Scan# 1473
Delta R.T. -0.06 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

Tgt Ion:149	Resp:	2168	
Ion	Ratio	Lower	Upper
149	100		
177	15.9	19.0	28.6#
150	7.9	10.0	15.0#

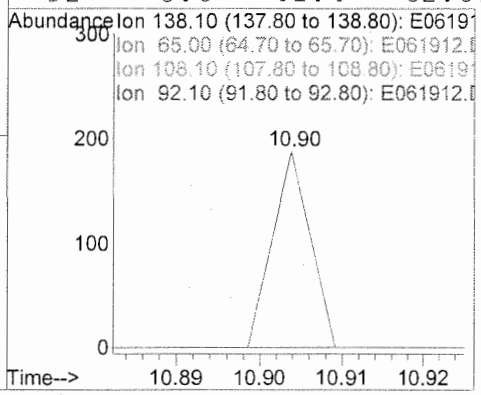


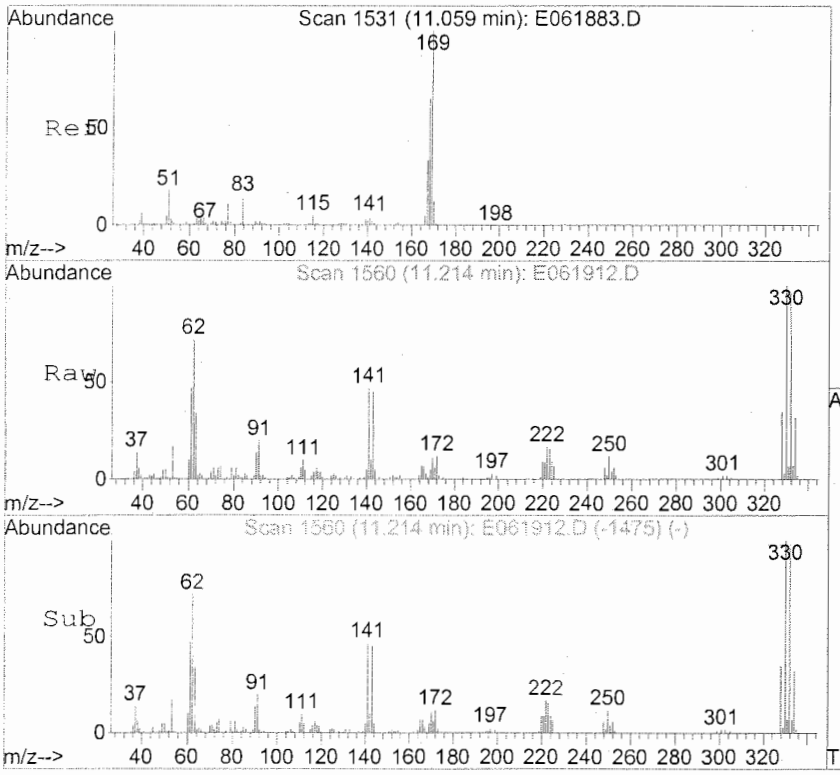


#56
4-Nitroaniline
Concen: 2.16 mg/L
RT: 10.90 min Scan# 1502
Delta R.T. -0.09 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

Tgt Ion:138 Resp: 60

Ion	Ratio	Lower	Upper
138	100		
65	0.0	86.4	129.6#
108	0.0	75.0	112.6#
92	0.0	41.4	62.0#

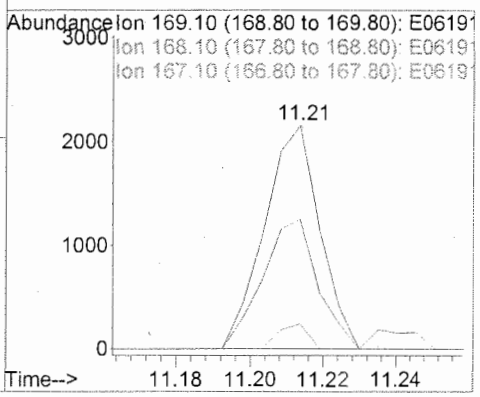


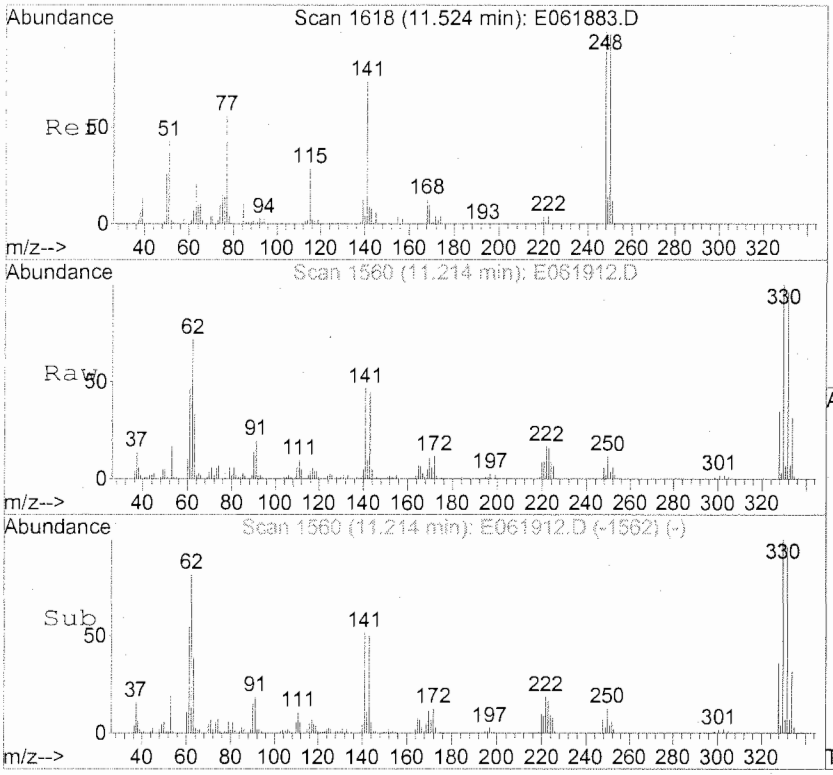


#59
N-Nitrosodiphenylamine
Concen: 0.33 mg/L
RT: 11.21 min Scan# 1560
Delta R.T. 0.15 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

Tgt Ion:169 Resp: 2278

Ion	Ratio	Lower	Upper
169	100		
168	6.0	50.8	76.2#
167	58.2	27.0	40.4#

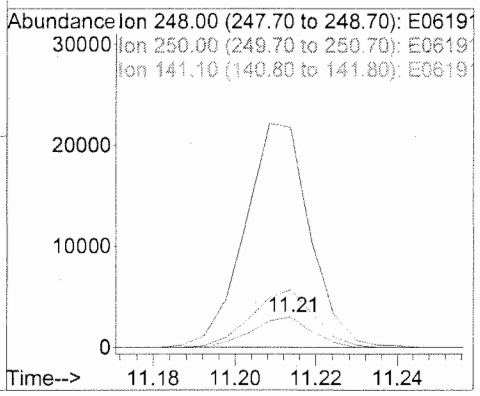


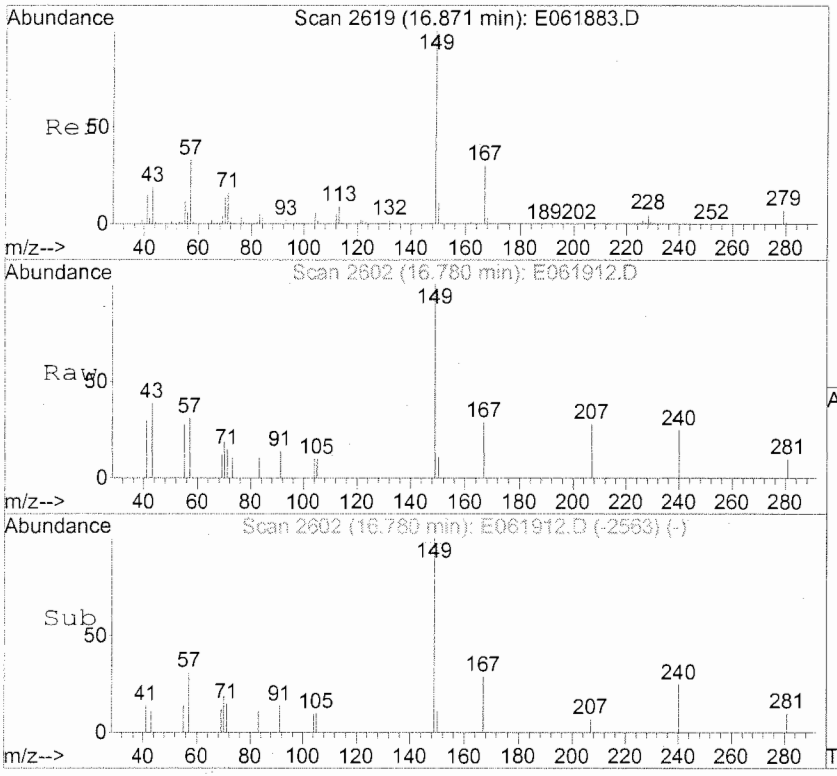


#62
4-Bromophenyl phenyl ether
Concen: 1.20 mg/L
RT: 11.21 min Scan# 1560
Delta R.T. -0.31 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

Tgt Ion:248 Resp: 3068

Ion	Ratio	Lower	Upper
248	100		
250	198.8	79.0	118.4#
141	809.6	64.3	96.5#

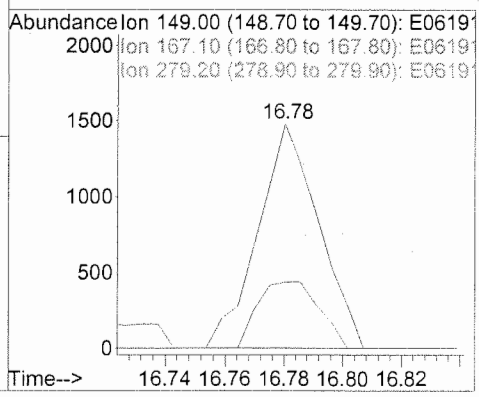




#78
Bis(2-ethylhexyl)phthalate
Concen: 0.24 mg/L
RT: 16.78 min Scan# 2602
Delta R.T. -0.09 min
Lab File: E061912.D
Acq: 29 Dec 2006 5:45 pm

Tgt Ion:149 Resp: 2127

Ion	Ratio	Lower	Upper
149	100		
167	30.1	25.0	37.6
279	0.0	6.2	9.2#



Sample Raw Data

Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700100	**Prep Lot:**	DWG0700103	**Report Group:**	D0602139
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76016	**Prep Date:**	12/26/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061916.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 19:54	**Quant Date:**	01/02/2007 08:12	**Vial:**	13
Run Type:	SMPL			**Dilution:**	10.0
Lab ID:	D0602139-002			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.33	0.00?	152	163087	40.00	OK
2	Naphthalene-d8	7.98	-0.01?	136	637181	40.00	OK
3	Acenaphthene-d10	10.23	0.00?	164	346514	40.00	OK
4	Phenanthrene-d10	12.11	0.00?	188	532839	40.00	OK
5	Chrysene-d12	16.71	-0.01?	240	307636	40.00	OK
6	Perylene-d12	19.80	0.00?	264	173860	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.70	-0.01	0.00	112	22258	4.29	86	23-115	OK	
1	Phenol-d5	5.83	-0.01	0.00	99	28602	4.25	85	23-121	OK	
2	Nitrobenzene-d5	7.07	-0.01	0.00	82	26571	4.94	99	42-122	OK	
3	2-Fluorobiphenyl	9.35	0.00	0.00	172	40365	3.69	74	47-110	OK	
4	2,4,6-Tribromophenol	11.21	-0.01	0.00	330	4334	3.39	68	31-112	OK	
5	Terphenyl-d14	14.61	-0.01	0.00	244	15750	1.83	37	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		4.1	U	
1	N-Nitrosodimethylamine				42	0d		4.8	U	
1	Pyridine				79	0		3.3	U	
1	Phenol				94	0		1.1	U	
1	Aniline				93	0		3.4	U	
1	Bis(2-chloroethyl) Ether				93	0		2.4	U	
1	2-Chlorophenol				128	0		2.4	U	
1	1,3-Dichlorobenzene				146	0		2.0	U	
1	1,4-Dichlorobenzene				146	0		2.4	U	
1	Benzyl alcohol				108	0		2.2	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptanee
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061916.D		**Instrument:** MSE
Acqu Date:	12/29/2006 19:54	**Quant Date:** 01/02/2007 08:12	**Vial:** 13
Run Type:	SMPL		**Dilution:** 10.0
Lab ID:	D0602139-002		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		1.7	U	
1	2-Methylphenol				108	0		3.2	U	
1	Bis(2-Chloroisopropyl)ether				45	0		2.4	U	
1	4-Methylphenol				107	0		2.8	U	
1	N-Nitrosodi-n-propylamine				70	0		2.8	U	
1	Hexachloroethane				117	0		25	U	
2	Nitrobenzene				77	0		2.6	U	
2	Isophorone				82	0		3.0	U	
2	2-Nitrophenol				139	0		2.6	U	
2	2,4-Dimethylphenol				122	0**d**		8.3	U	
2	Benzoic acid				122	0**d**		200	U	
2	bis(2-Chloroethoxy)methane				93	0		3.2	U	
2	2,4-Dichlorophenol				162	0		2.3	U	
2	1,2,4-Trichlorobenzene				180	0		2.0	U	
2	Naphthalene				128	0		2.1	U	
2	4-Chloroaniline				127	0		3.6	U	
2	Hexachlorobutadiene				225	0		2.2	U	
2	4-Chloro-3-methylphenol				107	0		3.2	U	
2	2-Methylnaphthalene				142	0		1.8	U	
3	Hexachlorocyclopentadiene				237	0		18	U	
3	2,4,6-Trichlorophenol				196	0		2.7	U	
3	2,4,5-Trichlorophenol				196	0		2.8	U	
3	2-Chloronaphthalene				162	0		2.2	U	
3	2-Nitroaniline				65	0		2.7	U	
3	Dimethyl Phthalate				163	0		2.6	U	
3	Acenaphthylene				152	0		2.3	U	
3	2,6-Dinitrotoluene				165	0		3.0	U	
3	3-Nitroaniline				138	0		2.9	U	
3	Acenaphthene				154	0		1.5	U	
3	2,4-Dinitrophenol				184	0		100	U	
3	4-Nitrophenol				109	0		200	U	
3	Dibenzofuran				168	0		2.2	U	
3	2,4-Dinitrotoluene				165	0		3.0	U	
3	Fluorene				166	0		2.2	U	
3	Diethyl Phthalate				149	0		2.8	U	
3	4-Chlorophenyl Phenyl Ether				204	0		2.1	U	
3	4-Nitroaniline				138	0**d**		3.6	U	
4	2-Methyl-4,6-dinitrophenol				198	0		2.0	U	
4	N-Nitrosodiphenylamine				169	0		2.3	U	
4	4-Bromophenyl Phenyl Ether				248	0		1.8	U	
4	Hexachlorobenzene				284	0		2.1	U	
4	Pentachlorophenol				266	0		6.3	U	
4	Phenanthrene				178	0		2.2	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061916.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 19:54	**Quant Date:**	01/02/2007 08:12	**Vial:**	13
Run Type:	SMPL			**Dilution:**	10.0
Lab ID:	D0602139-002			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		2.1	U	
4	Di-n-butyl Phthalate				149	0		2.5	U	
4	Fluoranthene				202	0		2.1	U	
5	Pyrene				202	0		3.3	U	
5	Butyl Benzyl Phthalate				149	0		4.8	U	
5	3,3'-Dichlorobenzidine				252	0**d**		8.4	U	
5	Benz(a)anthracene				228	0		2.1	U	
5	Chrysene				228	0		2.2	U	
5	Bis(2-ethylhexyl) Phthalate				149	0**d**		3.0	U	
6	Di-n-octyl Phthalate				149	0		3.3	U	
6	Benzo(b)fluoranthene				252	0**d**		4.2	U	
6	Benzo(k)fluoranthene				252	0**d**		3.2	U	
6	Benzo(a)pyrene				252	0		5.4	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		6.5	U	
6	Dibenz(a,h)anthracene				278	0**d**		6.2	U	
6	Benzo(g,h,i)perylene				276	0**d**		7.4	U	

Prep Amount:	1050 ml	**Dilution:**	10.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte deteeted above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte coneentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insuffieient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061916.D Vial: 13
Acq On : 29 Dec 2006 7:54 pm Operator: GJ
Sample : D0602139-002 1/10 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:23:57 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	163087	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	637181	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	346514	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.11	188	532839	40.00	mg/L	-0.05
70) Chrysene-d12	16.71	240	307636	40.00	mg/L	-0.08
80) Perylene-d12	19.80	264	173860	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	22258	4.29	mg/L	-0.03
Spiked Amount 50.000			Recovery =	8.58%		
7) Phenol-d5	5.83	99	28602	4.25	mg/L	-0.04
Spiked Amount 50.000			Recovery =	8.50%		
23) Nitrobenzene-d5	7.07	82	26571	4.94	mg/L	-0.03
Spiked Amount 50.000			Recovery =	9.88%		
41) 2-Fluorobiphenyl	9.35	172	40365	3.69	mg/L	-0.04
Spiked Amount 50.000			Recovery =	7.38%		
61) 2,4,6-Tribromophenol	11.21	330	4334	3.39	mg/L	-0.05
Spiked Amount 50.000			Recovery =	6.78%		
73) Terphenyl-d14	14.61	244	15750	1.83	mg/L	-0.07
Spiked Amount 50.000			Recovery =	3.66%		
Target Compounds						Qvalue

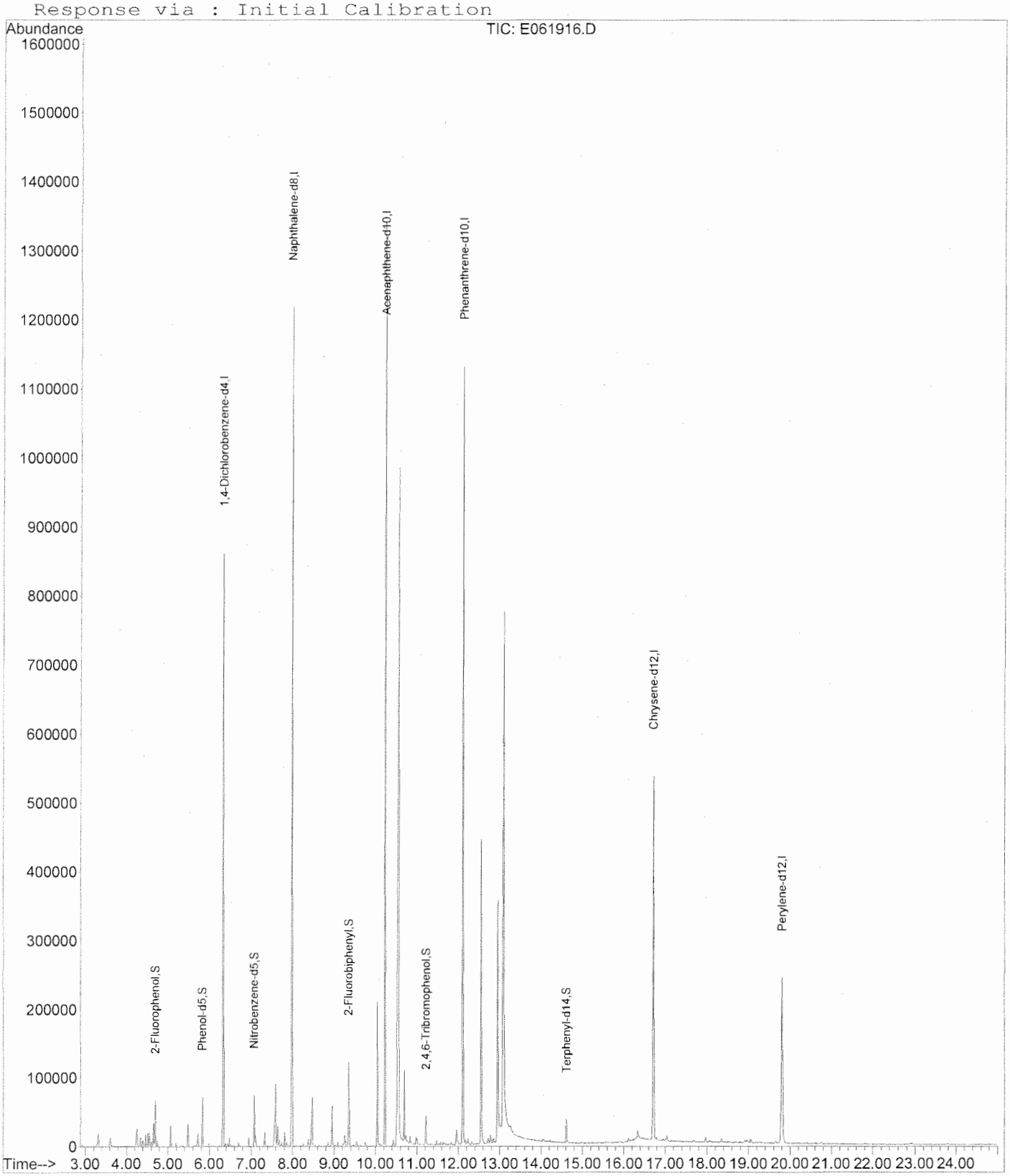
a 1/2/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061916.D Vial: 13
Acq On : 29 Dec 2006 7:54 pm Operator: GJ
Sample : D0602139-002 1/10 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 8:12 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061916.D Vial: 13
Acq On : 29 Dec 2006 7:54 pm Operator: GJ
Sample : D0602139-002 1/10 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:23:57 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

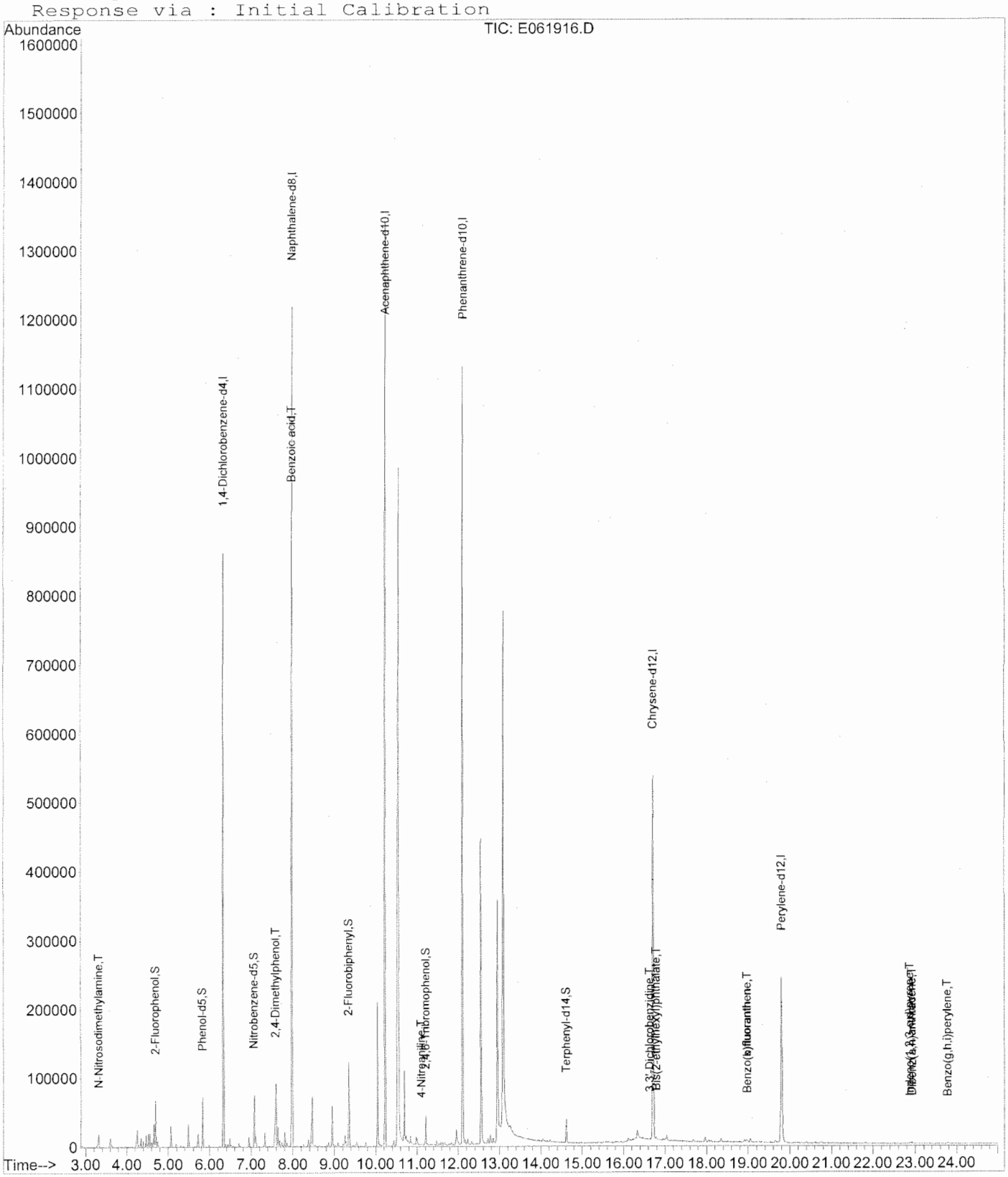
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	163087	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	637181	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	346514	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.11	188	532839	40.00	mg/L	-0.05
70) Chrysene-d12	16.71	240	307636	40.00	mg/L	-0.08
80) Perylene-d12	19.80	264	173860	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	22258	4.29	mg/L	-0.03
Spiked Amount 50.000			Recovery =	8.58%		
7) Phenol-d5	5.83	99	28602	4.25	mg/L	-0.04
Spiked Amount 50.000			Recovery =	8.50%		
23) Nitrobenzene-d5	7.07	82	26571	4.94	mg/L	-0.03
Spiked Amount 50.000			Recovery =	9.88%		
41) 2-Fluorobiphenyl	9.35	172	40365	3.69	mg/L	-0.04
Spiked Amount 50.000			Recovery =	7.38%		
61) 2,4,6-Tribromophenol	11.21	330	4334	3.39	mg/L	-0.05
Spiked Amount 50.000			Recovery =	6.78%		
73) Terphenyl-d14	14.61	244	15750	1.83	mg/L	-0.07
Spiked Amount 50.000			Recovery =	3.66%		
Target Compounds						Qvalue
3) N-Nitrosodimethylamine	3.32	42	1524	0.49	mg/L #	1
27) 2,4-Dimethylphenol	7.59	122	28994	5.62	mg/L #	1
28) Benzoic acid	7.97	122	1143	0.34	mg/L #	1
56) 4-Nitroaniline	11.11	138	51	2.16	mg/L #	5
75) 3,3'-Dichlorobenzidine	16.63	252	190	0.36	mg/L #	1
78) Bis(2-ethylhexyl)phthalate	16.79	149	1840	0.24	mg/L #	83
82) Benzo(b)fluoranthene	18.97	252	2952	0.47	mg/L #	86
83) Benzo(k)fluoranthene	18.97	252	2952	0.48	mg/L #	88
85) Indeno(1,2,3-c,d)pyrene	22.87	276	2664	0.66	mg/L #	81
86) Dibenz(a,h)anthracene	22.92	278	2162	0.63	mg/L #	68
87) Benzo(g,h,i)perylene	23.78	276	2234	0.67	mg/L #	76

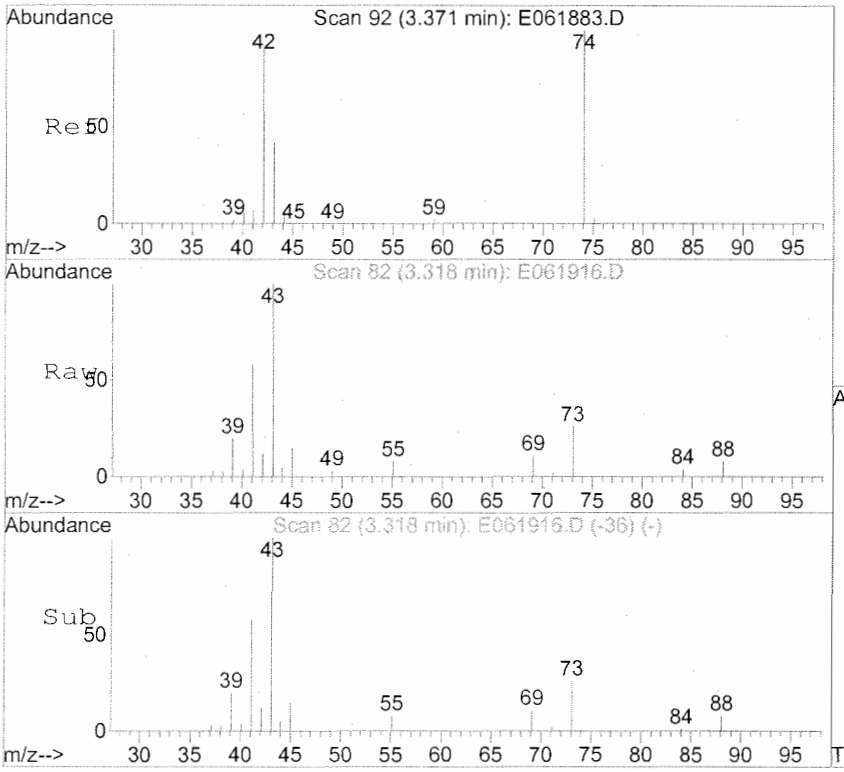
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061916.D Vial: 13
Acq On : 29 Dec 2006 7:54 pm Operator: GJ
Sample : D0602139-002 1/10 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:23 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

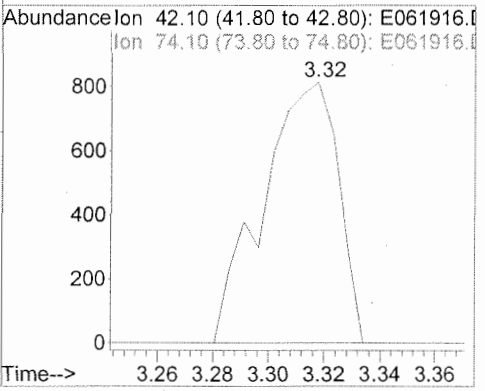


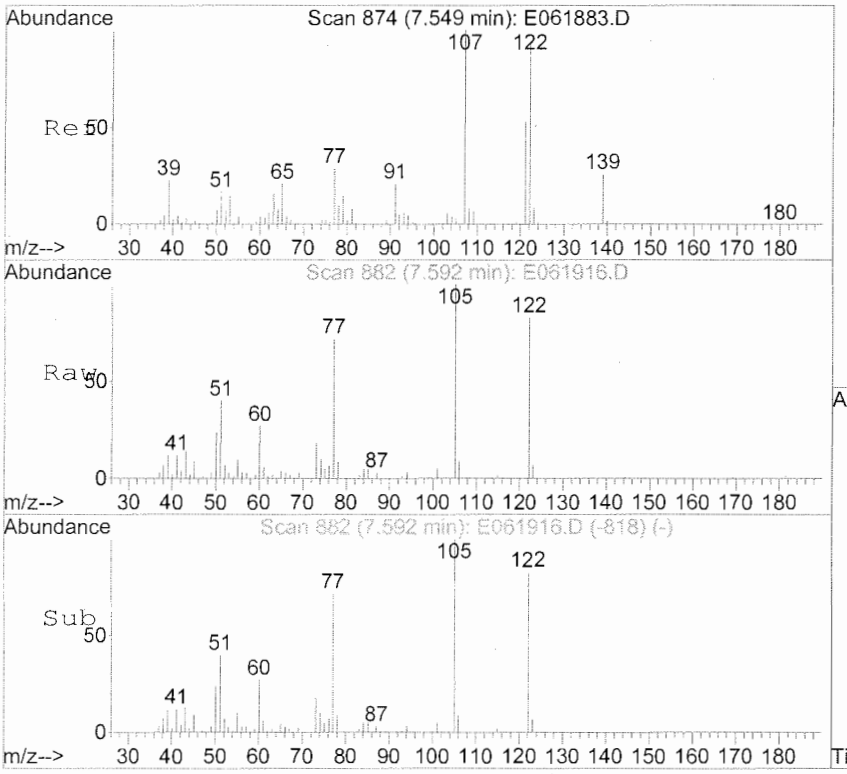


#3
N-Nitrosodimethylamine
Concen: 0.49 mg/L
RT: 3.32 min Scan# 82
Delta R.T. -0.05 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion: 42 Resp: 1524

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

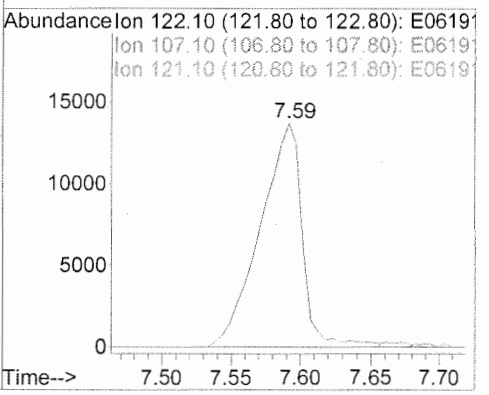


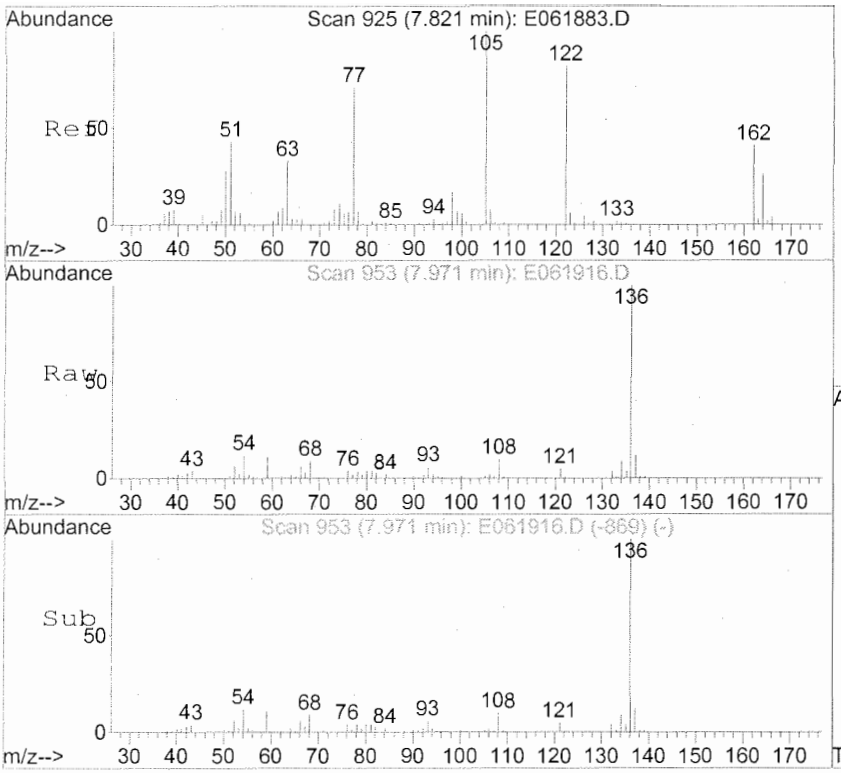


#27
2,4-Dimethylphenol
Concen: 5.62 mg/L
RT: 7.59 min Scan# 882
Delta R.T. 0.04 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:122 Resp: 28994

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.2	46.2	69.2#

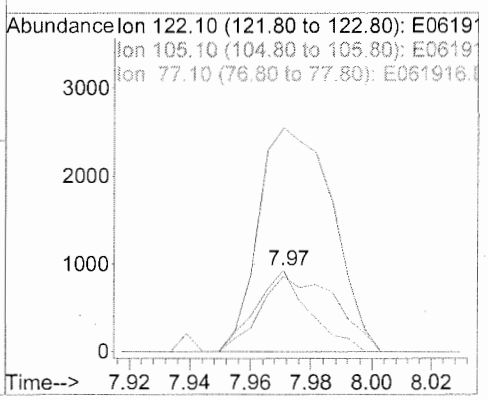


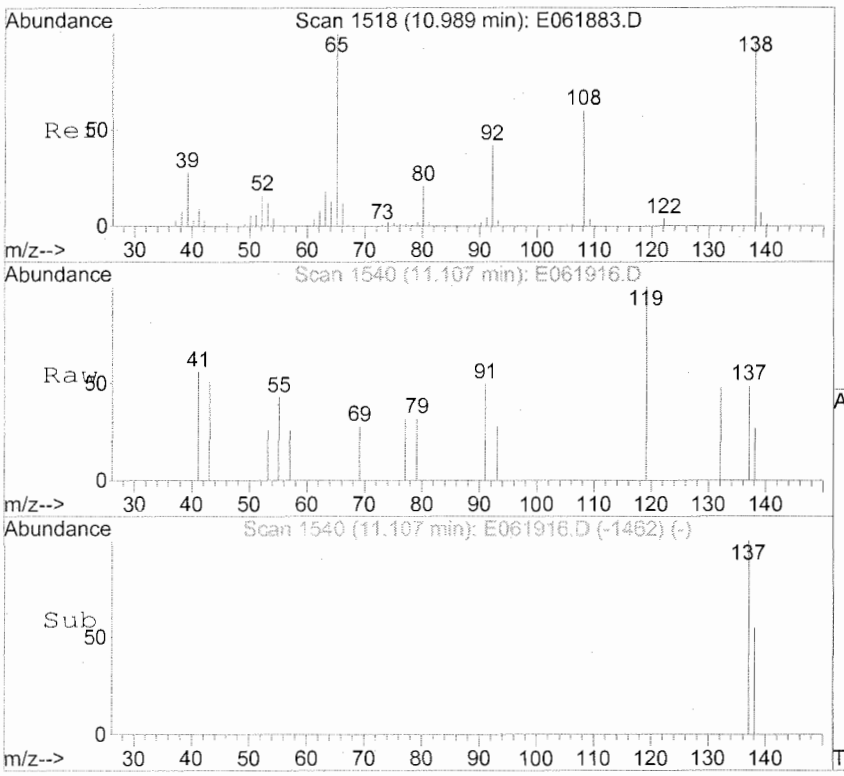


#28
Benzoic acid
Concen: 0.34 mg/L
RT: 7.97 min Scan# 953
Delta R.T. 0.15 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:122 Resp: 1143

Ion	Ratio	Lower	Upper
122	100		
105	131.3	110.2	165.2
77	376.3	89.8	134.8#

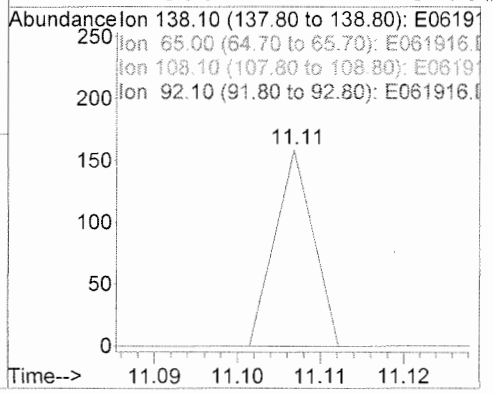


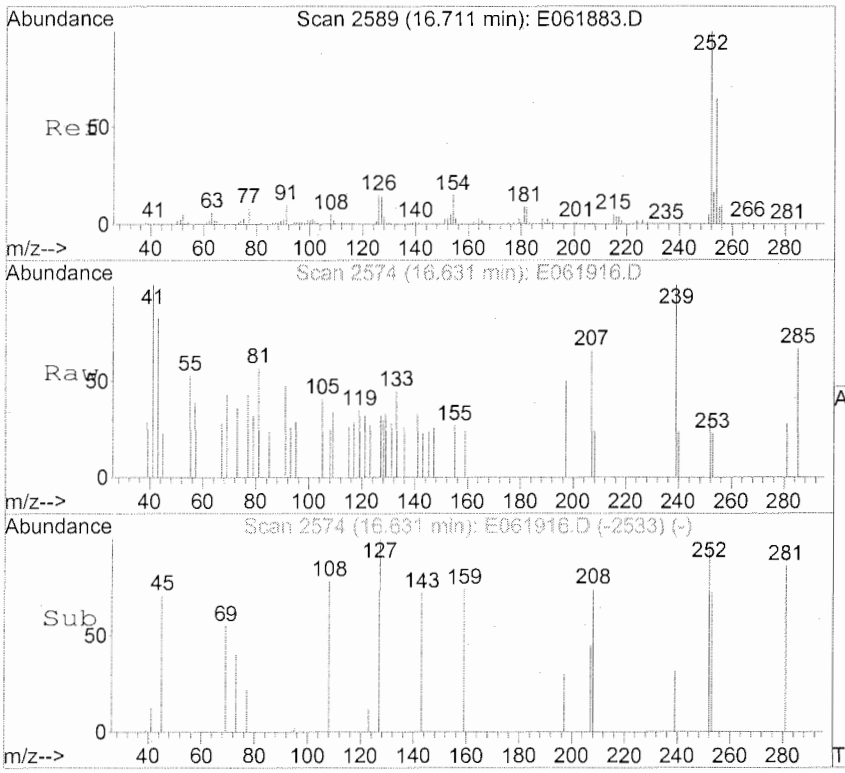


#56
4-Nitroaniline
Concen: 2.16 mg/L
RT: 11.11 min Scan# 1540
Delta R.T. 0.12 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:138 Resp: 51

Ion	Ratio	Lower	Upper
138	100		
65	0.0	86.4	129.6#
108	0.0	75.0	112.6#
92	0.0	41.4	62.0#

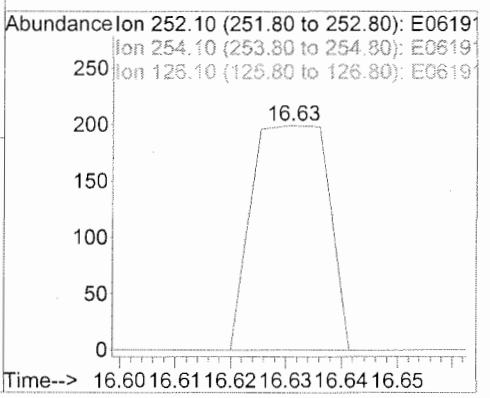


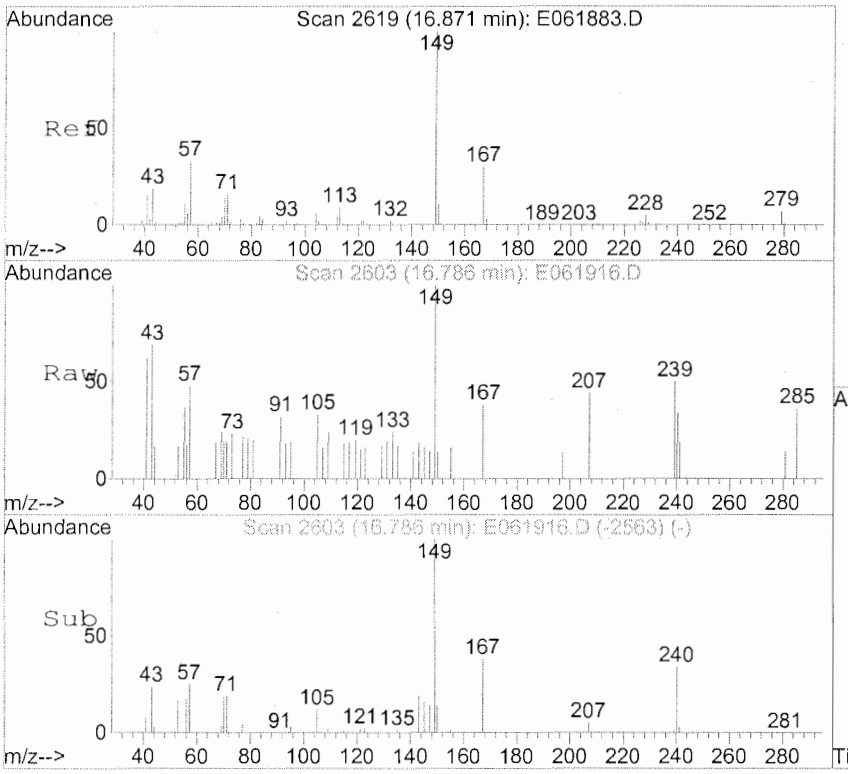


#75
3,3'-Dichlorobenzidine
Concen: 0.36 mg/L
RT: 16.63 min Scan# 2574
Delta R.T. -0.08 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:252 Resp: 190

Ion	Ratio	Lower	Upper
252	100		
254	0.0	52.6	79.0#
126	401.6	8.2	12.2#

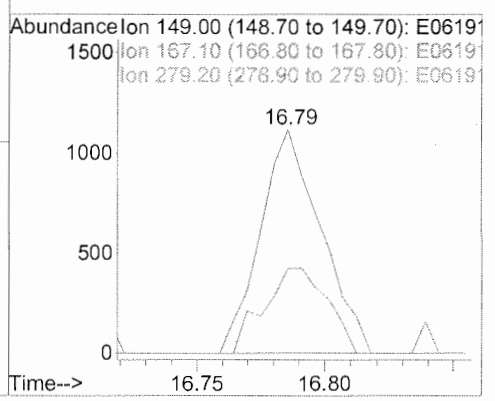


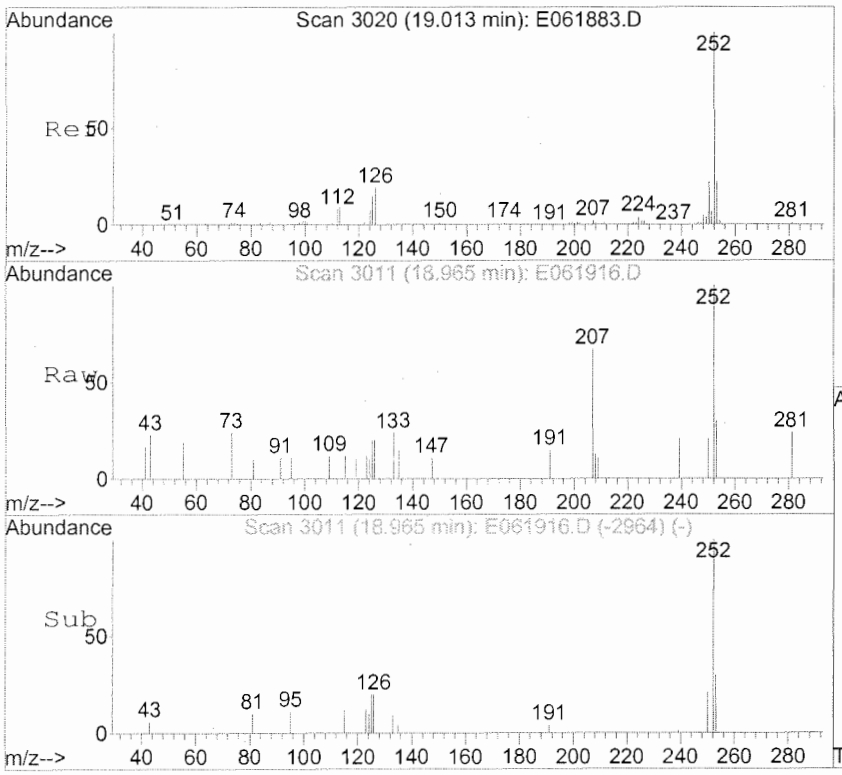


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.24 mg/L
RT: 16.79 min Scan# 2603
Delta R.T. -0.09 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:149 Resp: 1840

Ion	Ratio	Lower	Upper
149	100		
167	39.7	25.0	37.6#
279	0.0	6.2	9.2#

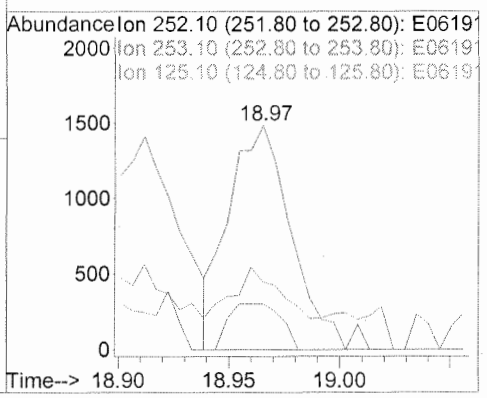


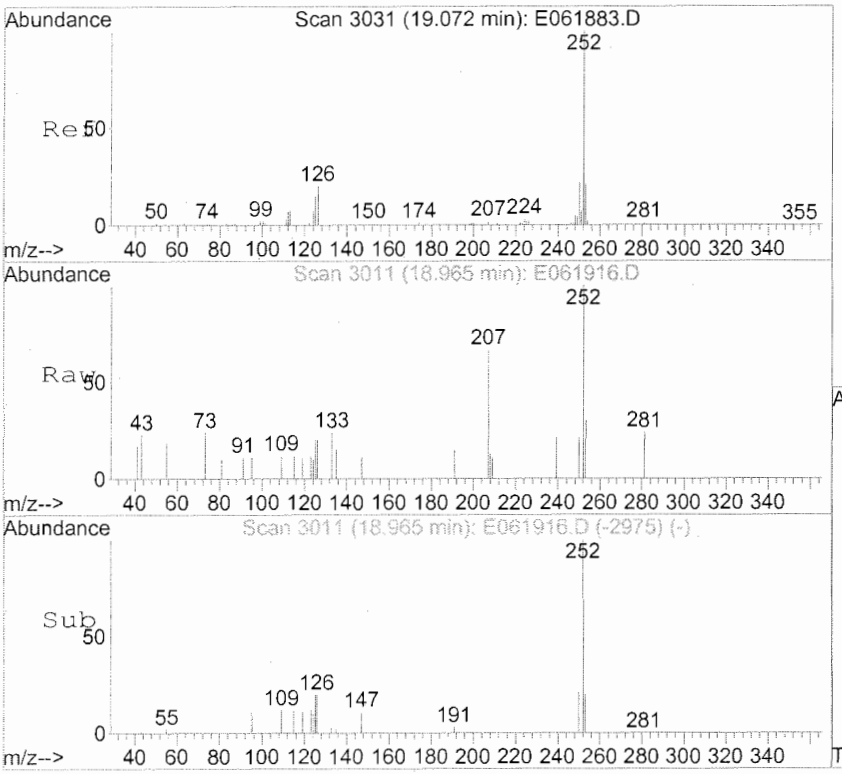


#82
Benzo(b)fluoranthene
Concen: 0.47 mg/L
RT: 18.97 min Scan# 3011
Delta R.T. -0.05 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:252 Resp: 2952

Ion	Ratio	Lower	Upper
252	100		
253	17.2	17.7	26.5#
125	16.7	6.3	9.5#

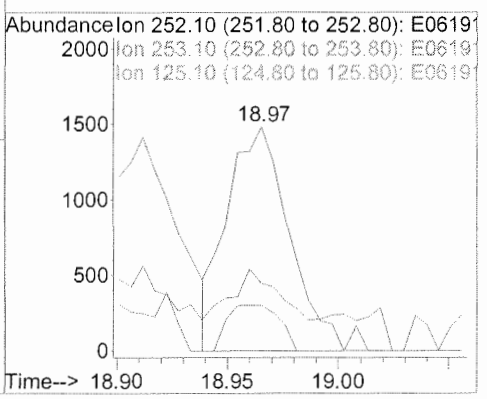


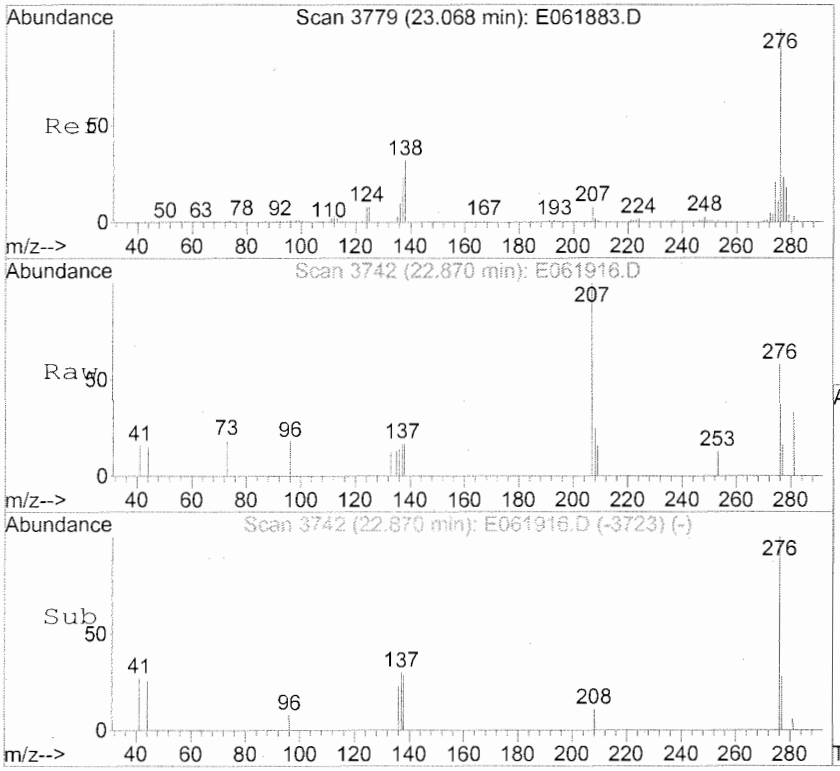


#83
Benzo(k)fluoranthene
Concen: 0.48 mg/L
RT: 18.97 min Scan# 3011
Delta R.T. -0.11 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:252 Resp: 2952

Ion	Ratio	Lower	Upper
252	100		
253	18.0	17.2	25.8
125	16.7	6.2	9.4#

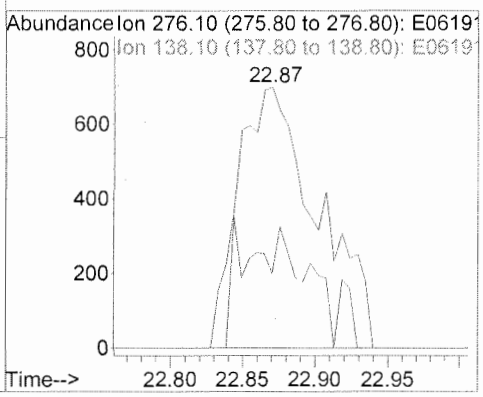


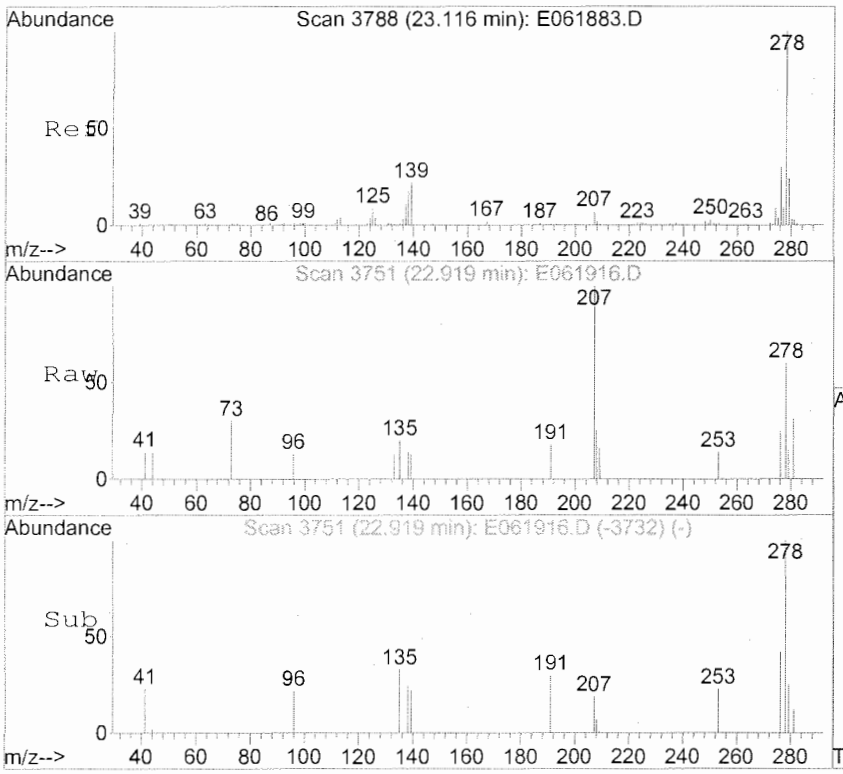


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.66 mg/L
RT: 22.87 min Scan# 3742
Delta R.T. -0.20 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:276 Resp: 2664

Ion	Ratio	Lower	Upper
276	100		
138	9.4	14.2	21.2#

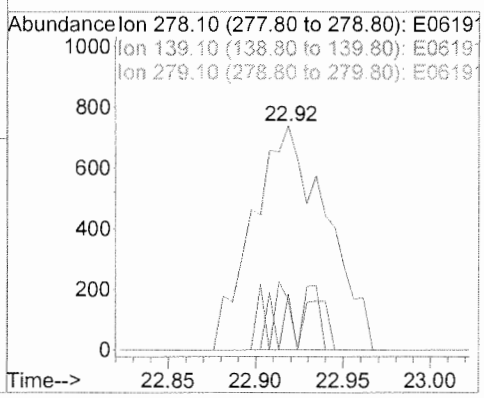


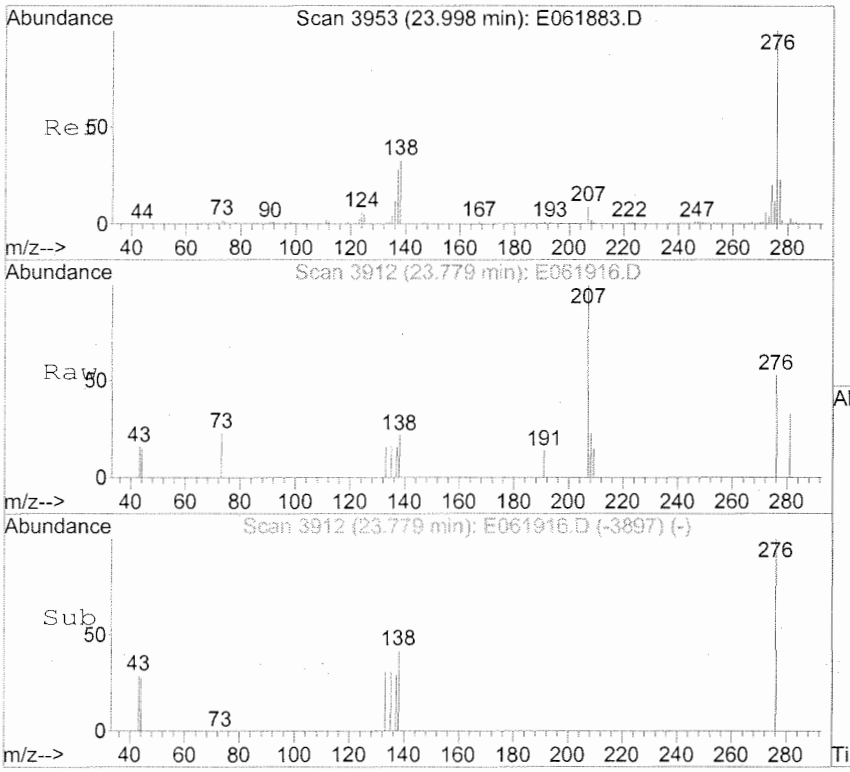


#86
Dibenz(a,h)anthracene
Concen: 0.63 mg/L
RT: 22.92 min Scan# 3751
Delta R.T. -0.20 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:278 Resp: 2162

Ion	Ratio	Lower	Upper
278	100		
139	9.0	12.1	18.1#
279	2.8	19.0	28.6#

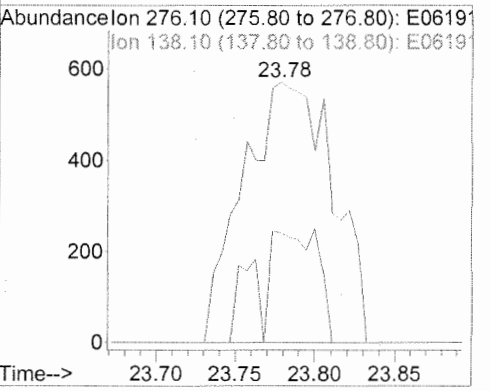




#87
Benzo(g,h,i)perylene
Concen: 0.67 mg/L
RT: 23.78 min Scan# 3912
Delta R.T. -0.22 min
Lab File: E061916.D
Acq: 29 Dec 2006 7:54 pm

Tgt Ion:276 Resp: 2234

Ion	Ratio	Lower	Upper
276	100		
138	7.3	14.3	21.5#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700100	**Prep Lot:**	DWG0700103	**Report Group:**	D0602139
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76017	**Prep Date:**	12/26/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061917.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 20:26	**Quant Date:**	01/02/2007 08:16	**Vial:**	14
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-003			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.33	0.00?	152	144971	40.00	OK
2	Naphthalene-d8	7.99	0.00?	136	567298	40.00	OK
3	Acenaphthene-d10	10.23	0.00?	164	315542	40.00	OK
4	Phenanthrene-d10	12.11	0.00?	188	492913	40.00	OK
5	Chrysene-d12	16.72	0.00?	240	304066	40.00	OK
6	Perylene-d12	19.80	0.00?	264	171797	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.70	-0.01	0.00	112	193895	42.01	84	23-115	OK	
1	Phenol-d5	5.84	0.00	0.00	99	263126	43.98	88	23-121	OK	
2	Nitrobenzene-d5	7.08	0.00	0.00	82	238898	49.84	100	42-122	OK	
3	2-Fluorobiphenyl	9.35	0.00	0.00	172	475005	47.74	95	47-110	OK	
4	2,4,6-Tribromophenol	11.22	0.00	0.00	330	51056	43.18	86	31-112	OK	
5	Terphenyl-d14	14.62	0.00	0.00	244	201149	23.67	47	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0d		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061917.D		**Instrument:** MSE
Acqu Date:	12/29/2006 20:26	**Quant Date:** 01/02/2007 08:16	**Vial:** 14
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0602139-003		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid	7.56	-0.21	-0.03	122	2560	0.8500	20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0d		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate				149	0		0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insuffieient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061917.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 20:26	**Quant Date:**	01/02/2007 08:16	**Vial:**	14
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-003			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate				149	0		0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.79		0.00	149	24872	3.24	3.1	J	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0**d**		0.42	U	
6	Benzo(k)fluoranthene				252	0**d**		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061917.D Vial: 14
Acq On : 29 Dec 2006 8:26 pm Operator: GJ
Sample : D0602139-003 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:24:34 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	144971	40.00	mg/L	-0.03
22) Naphthalene-d8	7.99	136	567298	40.00	mg/L	-0.03
37) Acenaphthene-d10	10.23	164	315542	40.00	mg/L	-0.03
57) Phenanthrene-d10	12.11	188	492913	40.00	mg/L	-0.05
70) Chrysene-d12	16.72	240	304066	40.00	mg/L	-0.07
80) Perylene-d12	19.80	264	171797	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	193895	42.01	mg/L	-0.03
Spiked Amount 50.000			Recovery =	84.02%		
7) Phenol-d5	5.84	99	263126	43.98	mg/L	-0.03
Spiked Amount 50.000			Recovery =	87.96%		
23) Nitrobenzene-d5	7.08	82	238898	49.84	mg/L	-0.03
Spiked Amount 50.000			Recovery =	99.68%		
41) 2-Fluorobiphenyl	9.35	172	475005	47.74	mg/L	-0.03
Spiked Amount 50.000			Recovery =	95.48%		
61) 2,4,6-Tribromophenol	11.22	330	51056	43.18	mg/L	-0.04
Spiked Amount 50.000			Recovery =	86.36%		
73) Terphenyl-d14	14.62	244	201149	23.67	mg/L	-0.06
Spiked Amount 50.000			Recovery =	47.34%		
Target Compounds						Qvalue
28) Benzoic acid	7.56	122	2560	0.85	mg/L	84
67) Carbazole	12.36	167	527	Below Cal	#	59
78) Bis(2-ethylhexyl)phthalate	16.79	149	24872	3.24	mg/L	99

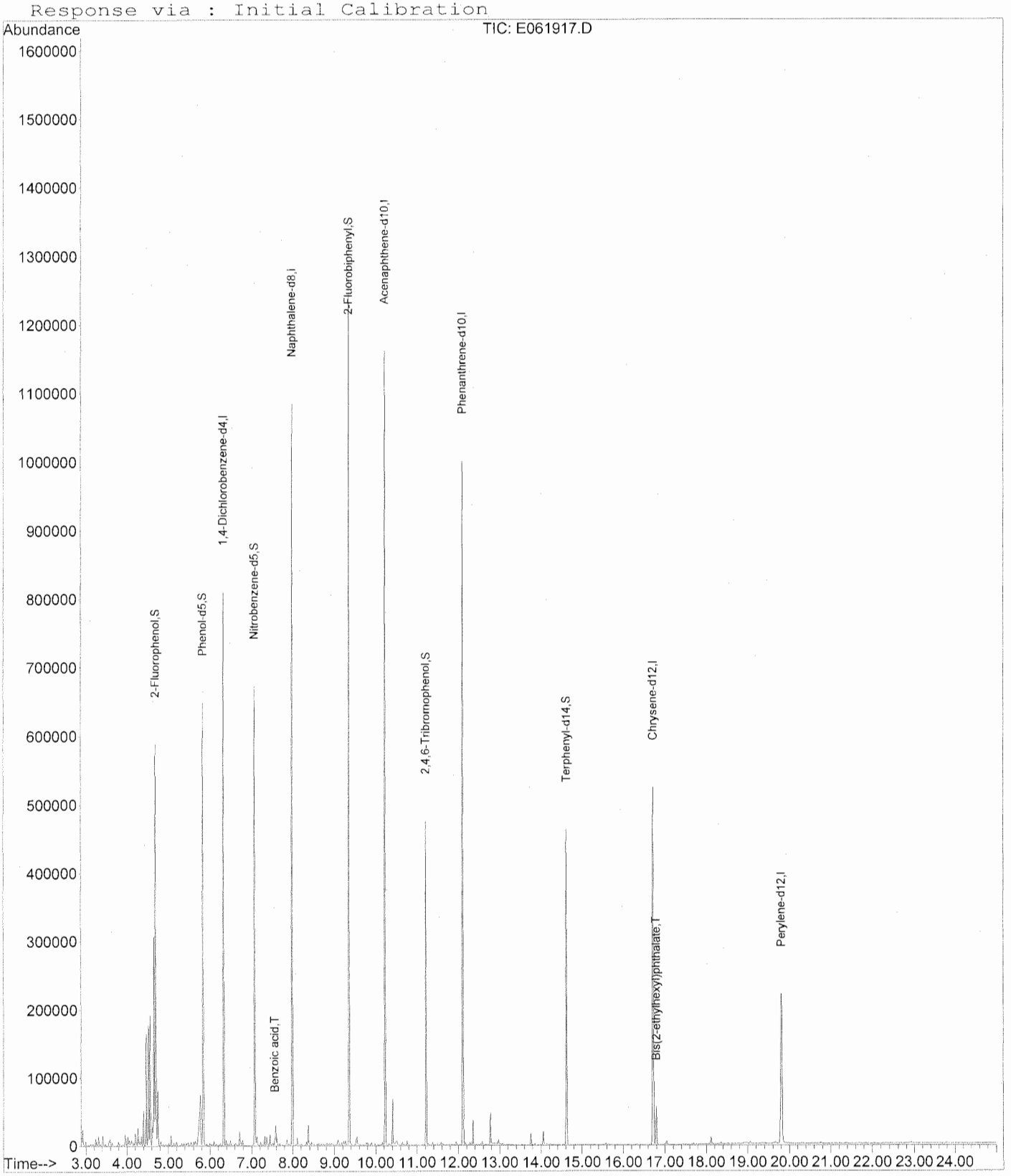
a 1/2/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061917.D Vial: 14
Acq On : 29 Dec 2006 8:26 pm Operator: GJ
Sample : D0602139-003 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 8:16 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061917.D Vial: 14
Acq On : 29 Dec 2006 8:26 pm Operator: GJ
Sample : D0602139-003 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:24:34 2006 Quant Results File: BA061226.RES

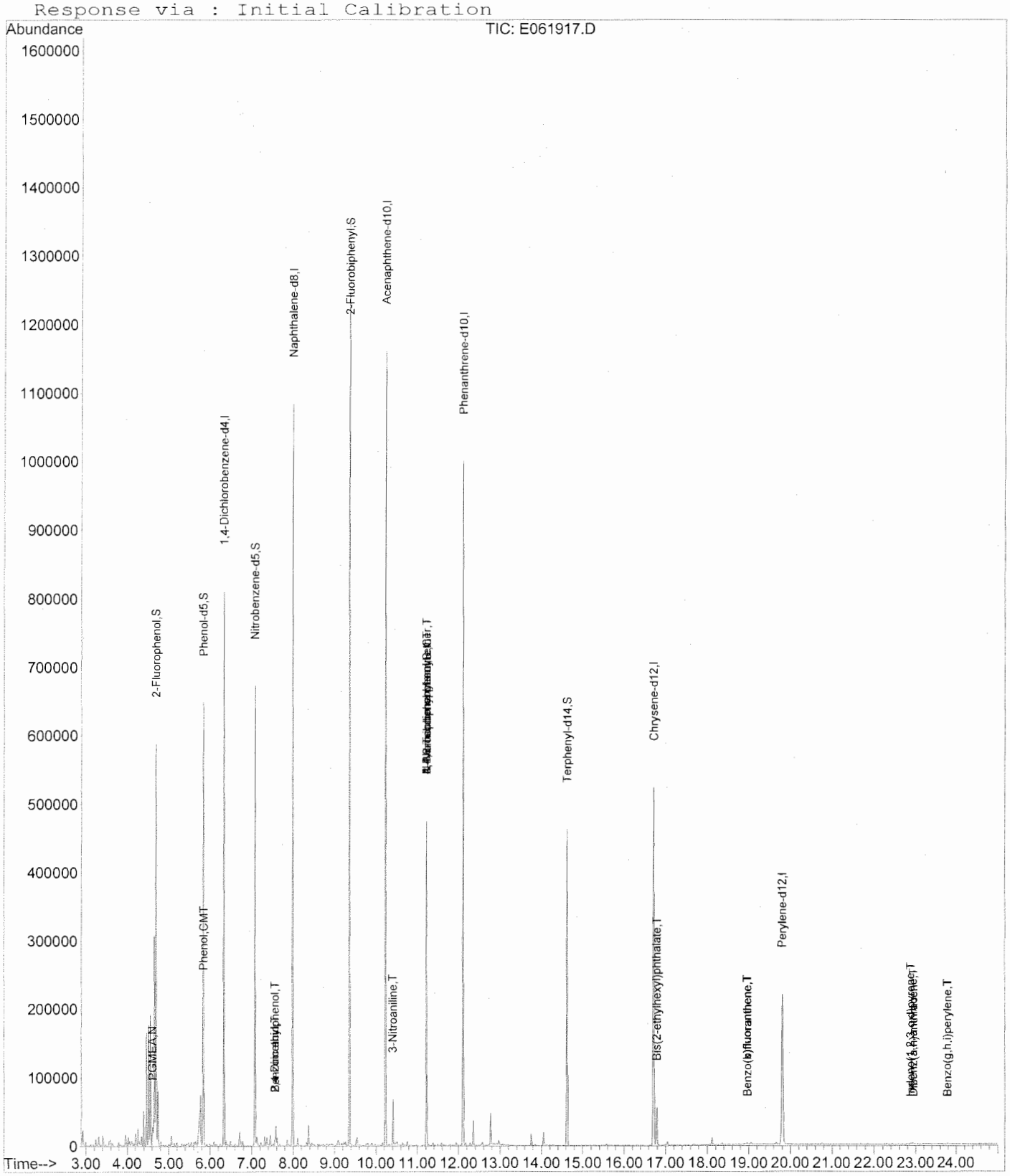
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

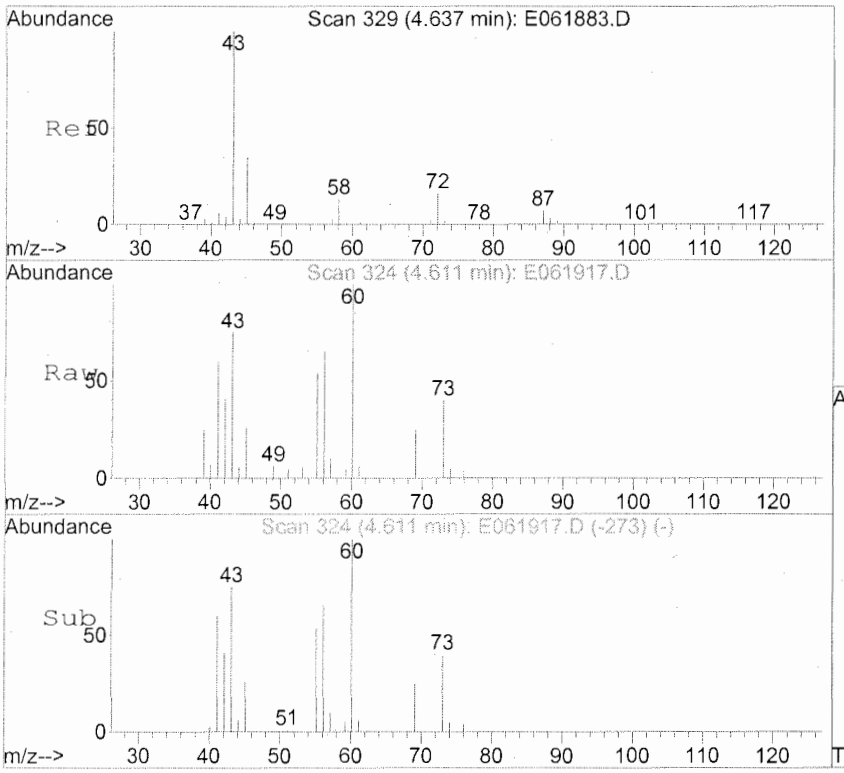
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	144971	40.00	mg/L	-0.03
22) Naphthalene-d8	7.99	136	567298	40.00	mg/L	-0.03
37) Acenaphthene-d10	10.23	164	315542	40.00	mg/L	-0.03
57) Phenanthrene-d10	12.11	188	492913	40.00	mg/L	-0.05
70) Chrysene-d12	16.72	240	304066	40.00	mg/L	-0.07
80) Perylene-d12	19.80	264	171797	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	193895	42.01	mg/L	-0.03
Spiked Amount 50.000			Recovery =	84.02%		
7) Phenol-d5	5.84	99	263126	43.98	mg/L	-0.03
Spiked Amount 50.000			Recovery =	87.96%		
23) Nitrobenzene-d5	7.08	82	238898	49.84	mg/L	-0.03
Spiked Amount 50.000			Recovery =	99.68%		
41) 2-Fluorobiphenyl	9.35	172	475005	47.74	mg/L	-0.03
Spiked Amount 50.000			Recovery =	95.48%		
61) 2,4,6-Tribromophenol	11.22	330	51056	43.18	mg/L	-0.04
Spiked Amount 50.000			Recovery =	86.36%		
73) Terphenyl-d14	14.62	244	201149	23.67	mg/L	-0.06
Spiked Amount 50.000			Recovery =	47.34%		
Target Compounds						Qvalue
5) PGMEA	4.61	43	3915	0.39	mg/L #	61
8) Phenol	5.86	94	4496	0.71	mg/L #	1
27) 2,4-Dimethylphenol	7.56	122	2560	0.56	mg/L #	1
28) Benzoic acid	7.56	122	2560	0.85	mg/L	84
47) 3-Nitroaniline	10.41	138	241	1.90	mg/L #	1
59) N-Nitrosodiphenylamine	11.22	169	2406	0.34	mg/L #	42
62) 4-Bromophenyl phenyl ether	11.22	248	3126	1.21	mg/L #	1
67) Carbazole	12.36	167	527	Below Cal	#	59
78) Bis(2-ethylhexyl)phthalate	16.79	149	24872	3.24	mg/L	99
82) Benzo(b)fluoranthene	18.97	252	1576	0.25	mg/L #	54
83) Benzo(k)fluoranthene	18.97	252	1576	0.26	mg/L #	53
85) Indeno(1,2,3-c,d)pyrene	22.88	276	2239	0.56	mg/L #	90
86) Dibenz(a,h)anthracene	22.95	278	1809	0.53	mg/L #	71
87) Benzo(g,h,i)perylene	23.78	276	1981	0.61	mg/L #	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061917.D Vial: 14
Acq On : 29 Dec 2006 8:26 pm Operator: GJ
Sample : D0602139-003 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:24 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

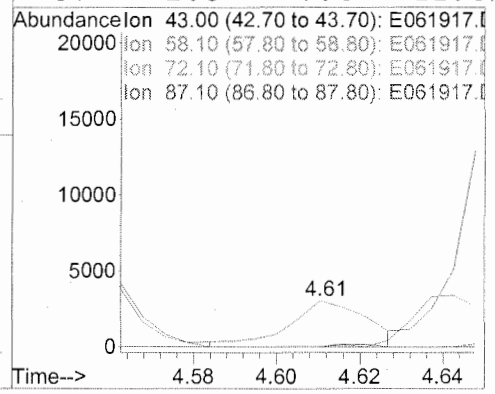


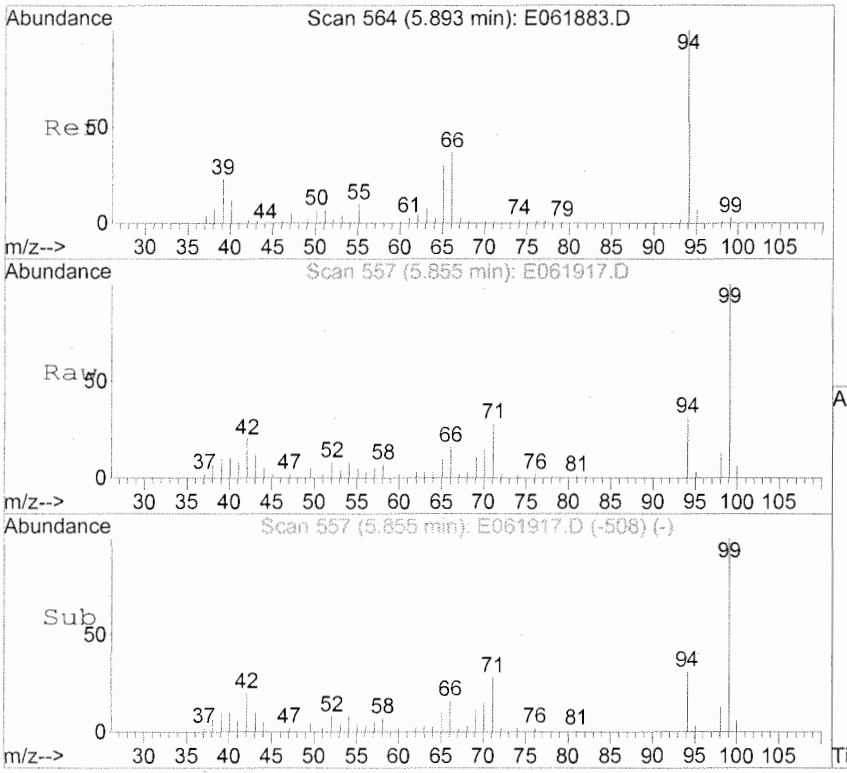


#5
PGMEA
Concen: 0.39 mg/L
RT: 4.61 min Scan# 324
Delta R.T. -0.03 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion: 43 Resp: 3915

Ion	Ratio	Lower	Upper
43	100		
58	0.0	9.7	14.5#
72	0.0	20.4	30.6#
87	2.8	7.6	11.4#

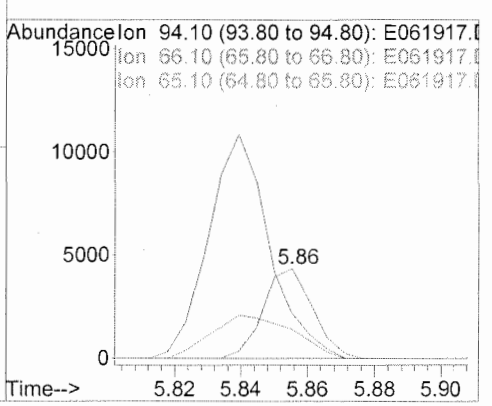


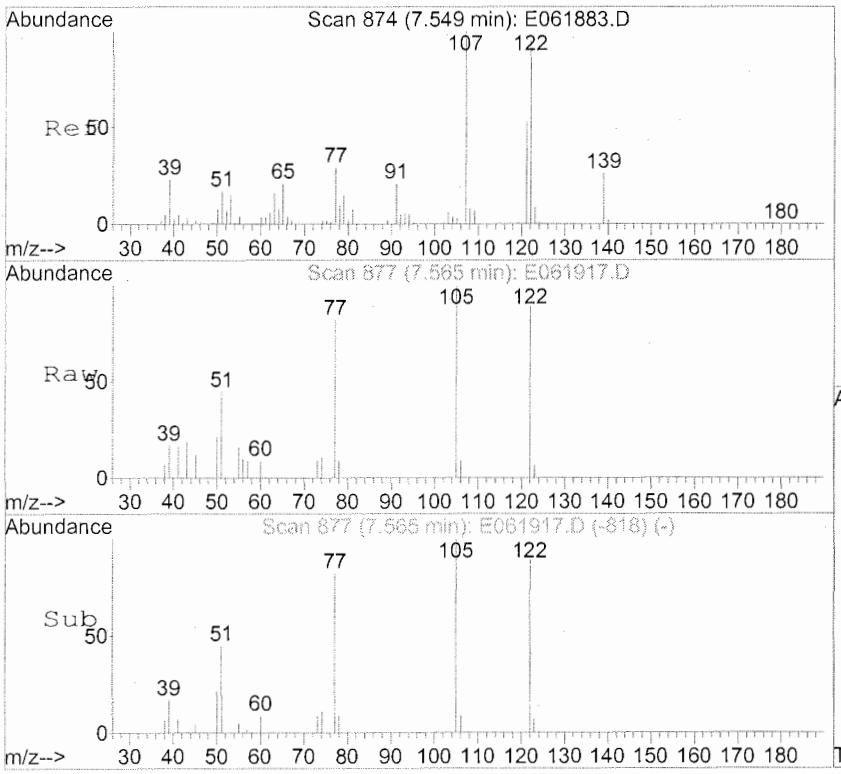


#8
Phenol
Concen: 0.71 mg/L
RT: 5.86 min Scan# 557
Delta R.T. -0.04 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion: 94 Resp: 4496

Ion	Ratio	Lower	Upper
94	100		
66	308.3	38.3	57.5#
65	79.1	27.1	40.7#

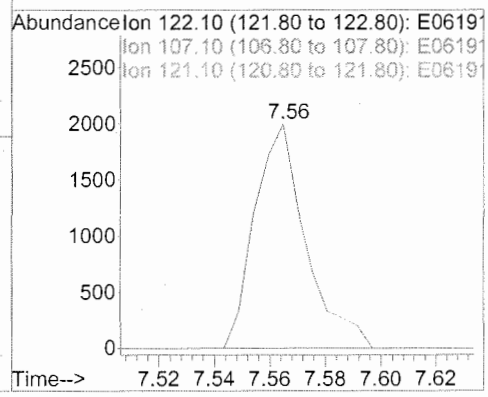


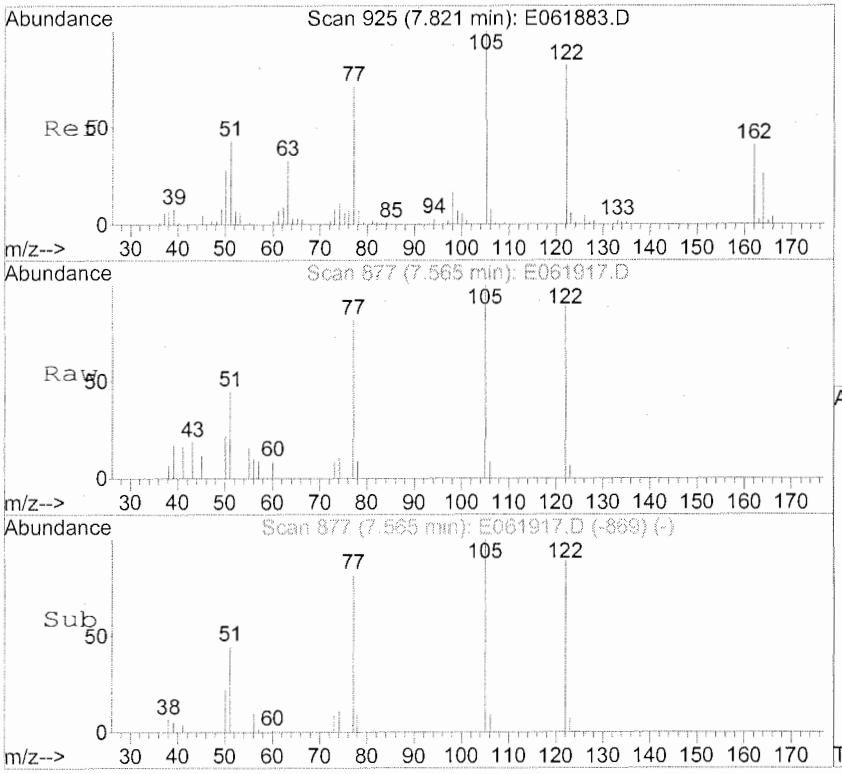


#27
2,4-Dimethylphenol
Concen: 0.56 mg/L
RT: 7.56 min Scan# 877
Delta R.T. 0.02 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:122 Resp: 2560

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

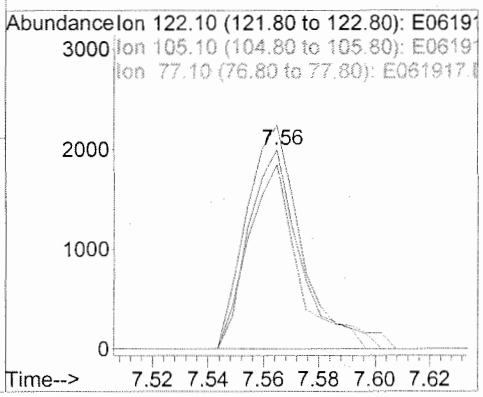


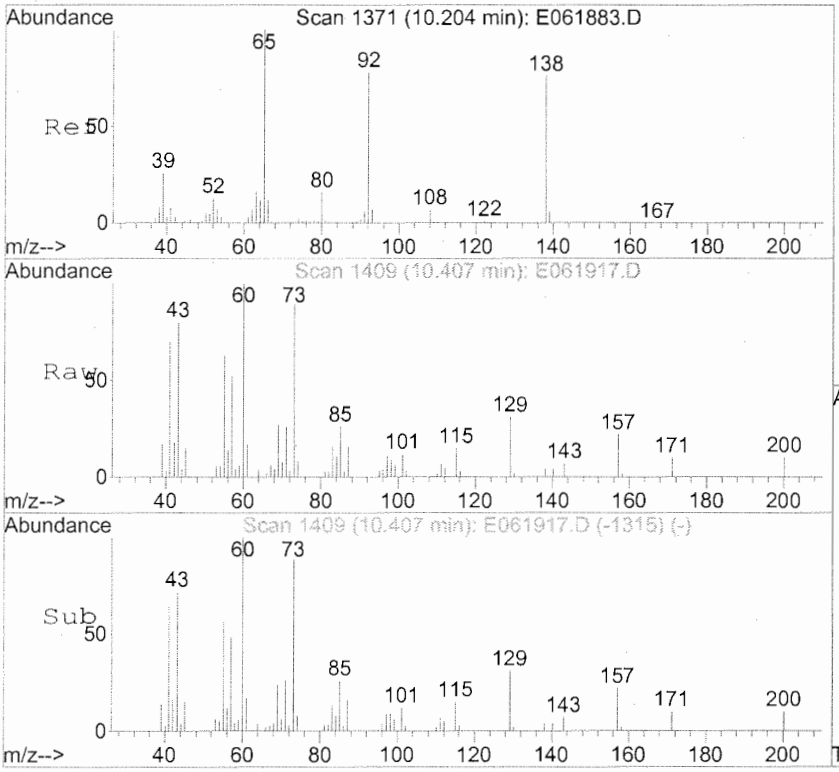


#28
Benzoic acid
Concen: 0.85 mg/L
RT: 7.56 min Scan# 877
Delta R.T. -0.26 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:122 Resp: 2560

Ion	Ratio	Lower	Upper
122	100		
105	120.6	110.2	165.2
77	93.9	89.8	134.8

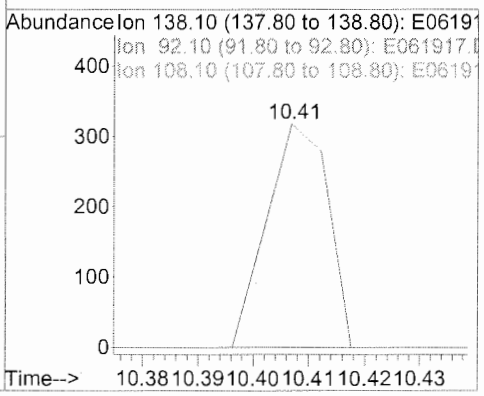


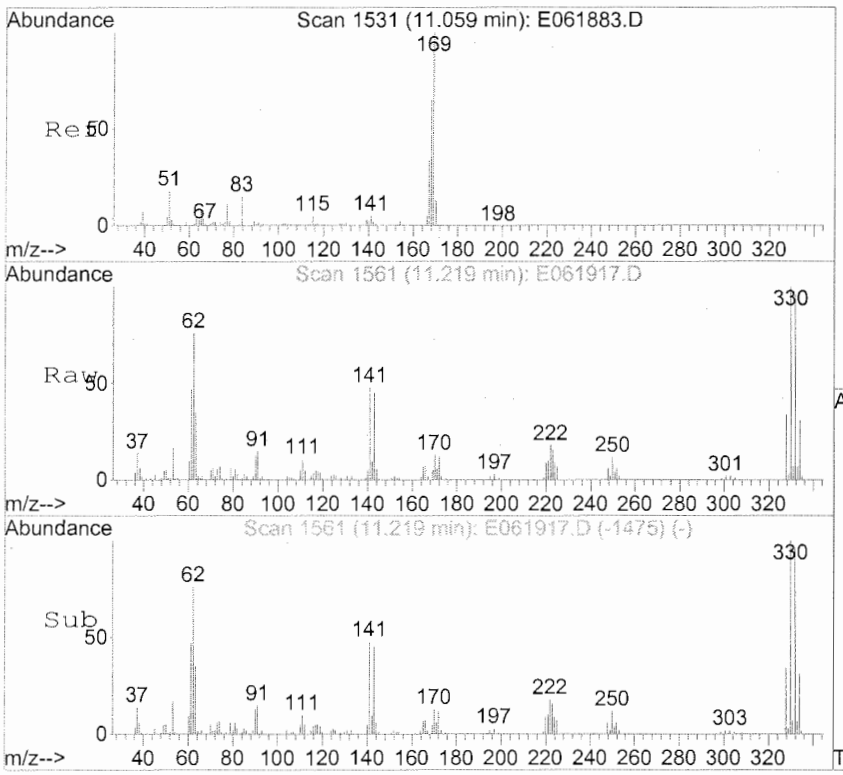


#47
3-Nitroaniline
Concen: 1.90 mg/L
RT: 10.41 min Scan# 1409
Delta R.T. 0.20 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:138 Resp: 241

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	0.0	8.1	12.1#

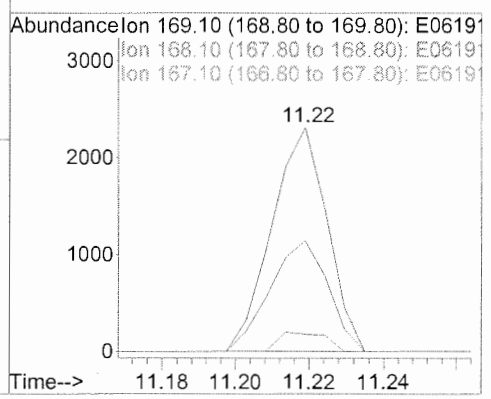


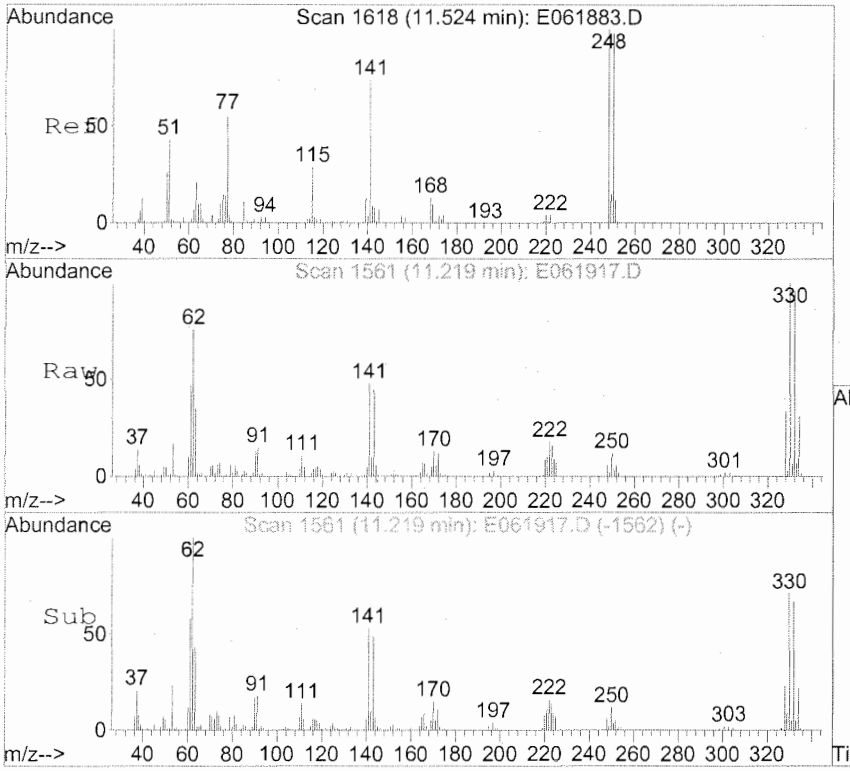


#59
N-Nitrosodiphenylamine
Concen: 0.34 mg/L
RT: 11.22 min Scan# 1561
Delta R.T. 0.16 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:169 Resp: 2406

Ion	Ratio	Lower	Upper
169	100		
168	7.3	50.8	76.2#
167	51.7	27.0	40.4#

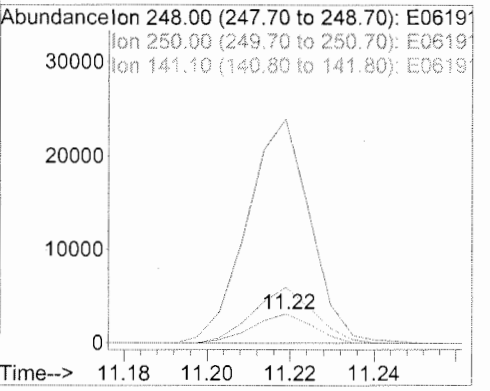


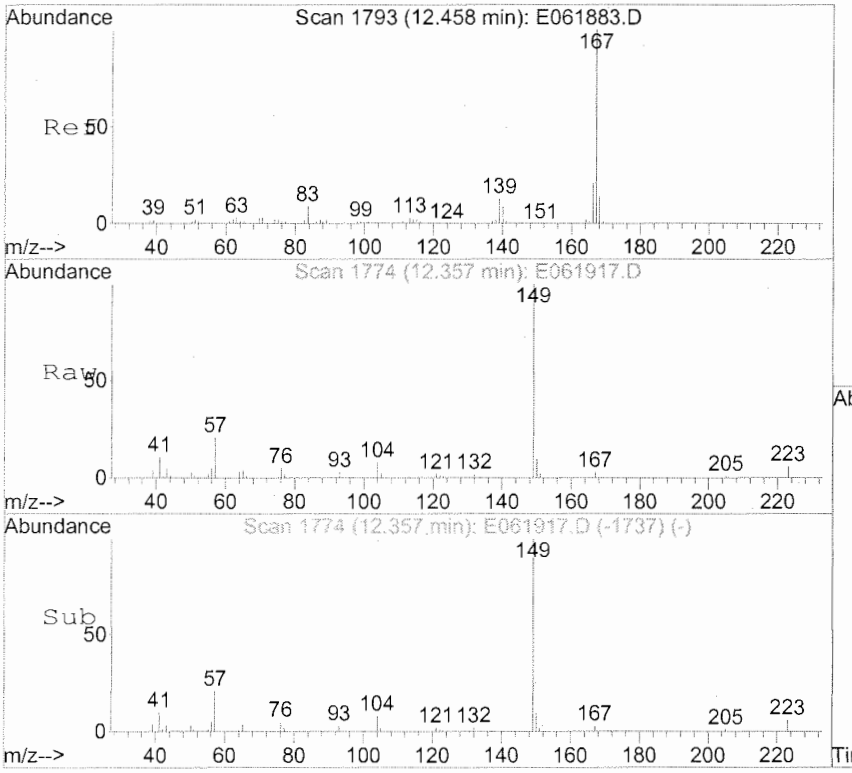


#62
4-Bromophenyl phenyl ether
Concen: 1.21 mg/L
RT: 11.22 min Scan# 1561
Delta R.T. -0.30 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:248 Resp: 3126

Ion	Ratio	Lower	Upper
248	100		
250	193.0	79.0	118.4#
141	810.7	64.3	96.5#

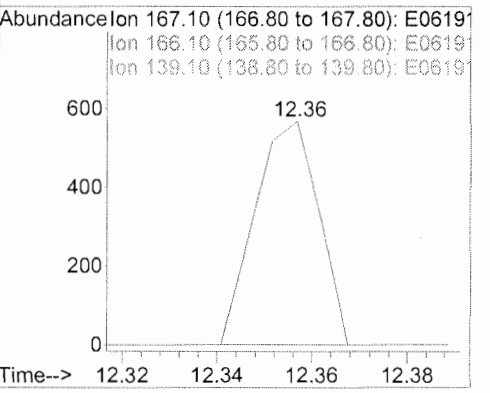


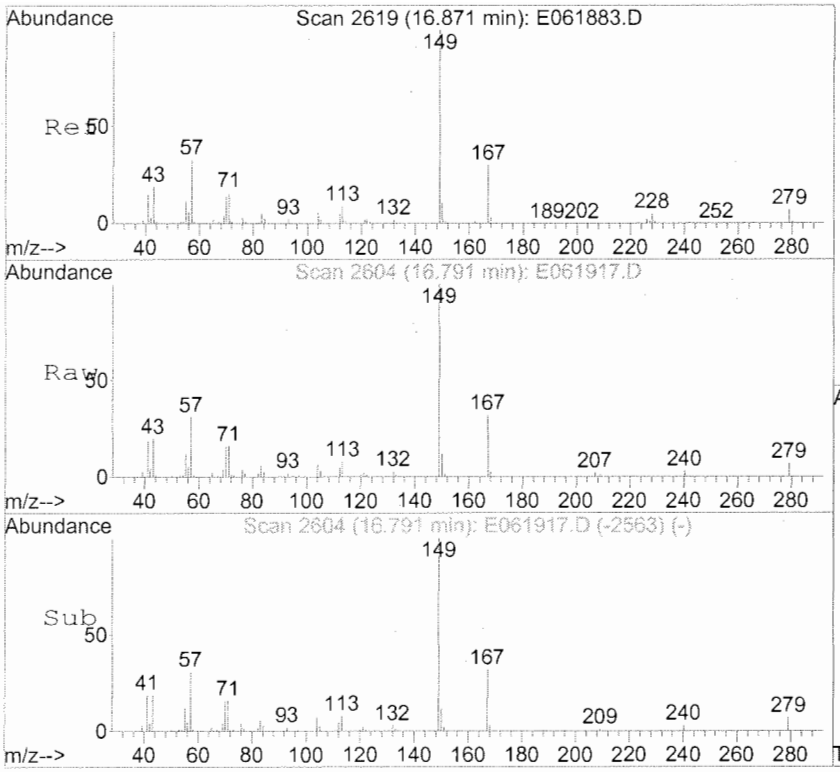


#67
Carbazole
Concen: Below Cal
RT: 12.36 min Scan# 1774
Delta R.T. -0.10 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:167 Resp: 527

Ion	Ratio	Lower	Upper
167	100		
166	0.0	17.2	25.8#
139	0.0	10.6	16.0#

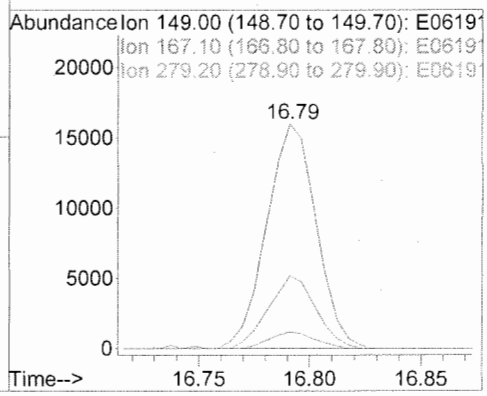


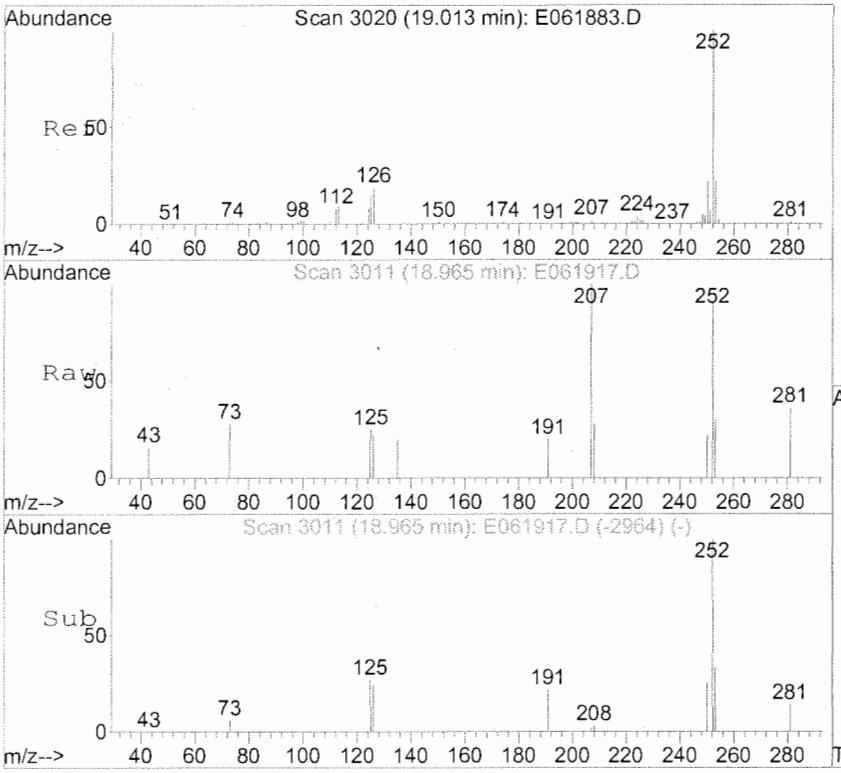


#78
Bis(2-ethylhexyl)phthalate
Concen: 3.24 mg/L
RT: 16.79 min Scan# 2604
Delta R.T. -0.08 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:149 Resp: 24872

Ion	Ratio	Lower	Upper
149	100		
167	30.8	25.0	37.6
279	6.6	6.2	9.2

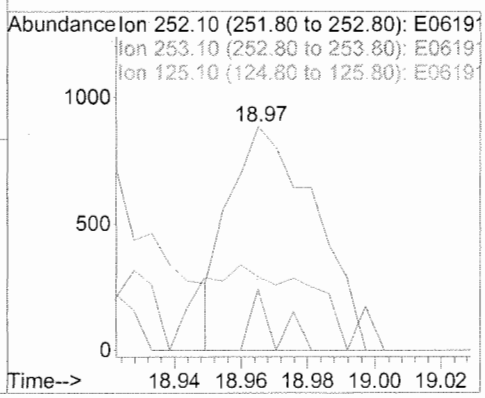


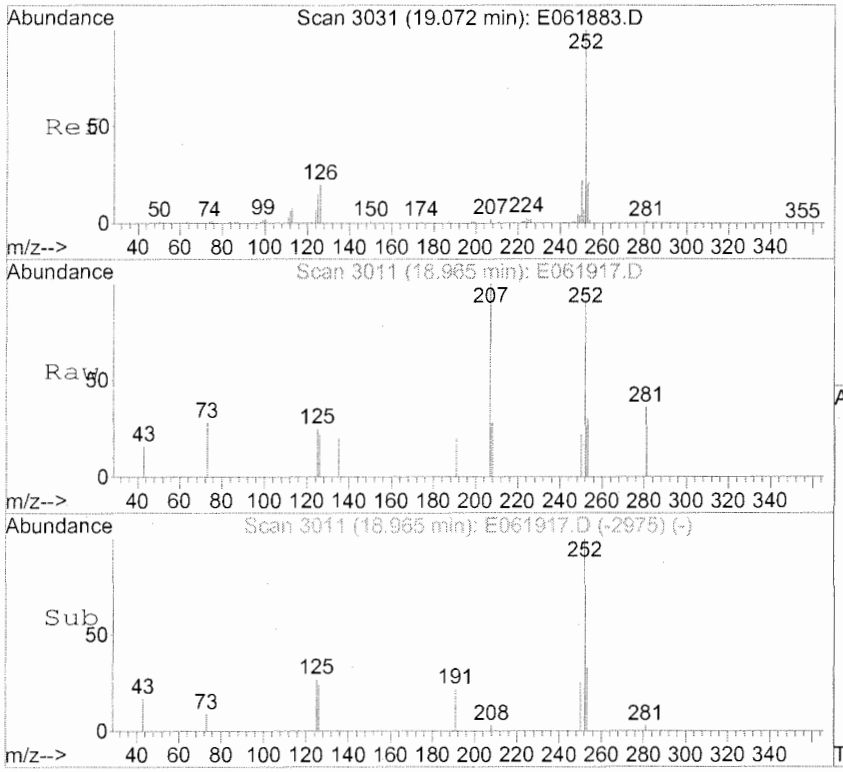


#82
Benzo(b)fluoranthene
Concen: 0.25 mg/L
RT: 18.97 min Scan# 3011
Delta R.T. -0.05 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:252 Resp: 1576

Ion	Ratio	Lower	Upper
252	100		
253	51.8	17.7	26.5#
125	8.0	6.3	9.5

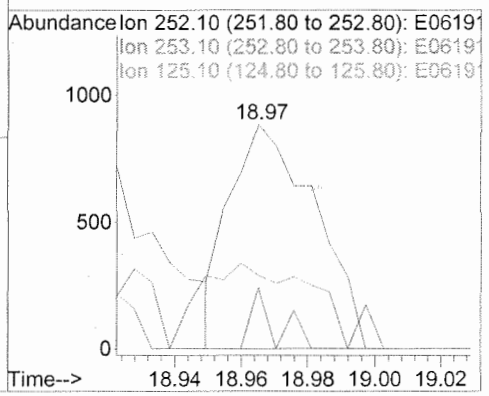


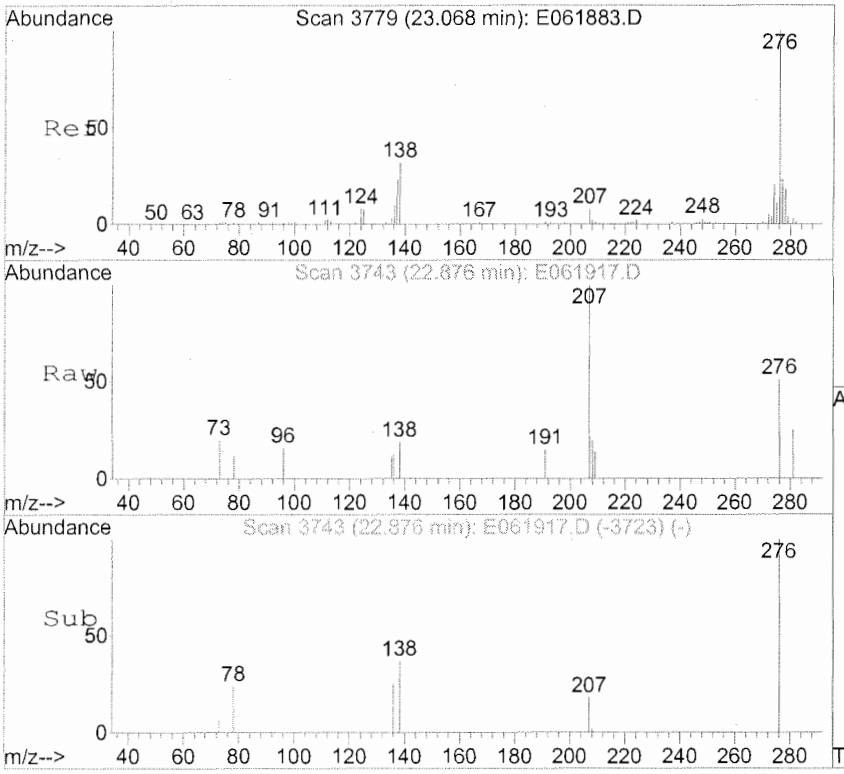


#83
Benzo(k)fluoranthene
Concen: 0.26 mg/L
RT: 18.97 min Scan# 3011
Delta R.T. -0.11 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:252 Resp: 1576

Ion	Ratio	Lower	Upper
252	100		
253	51.8	17.2	25.8#
125	8.0	6.2	9.4

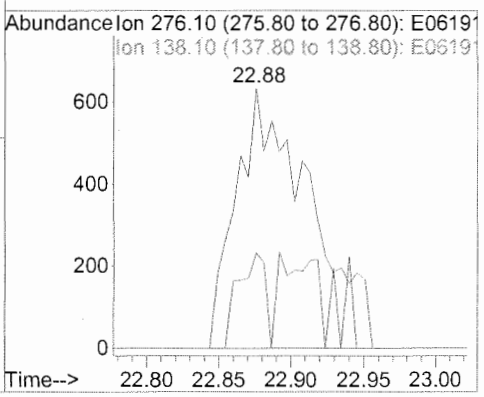


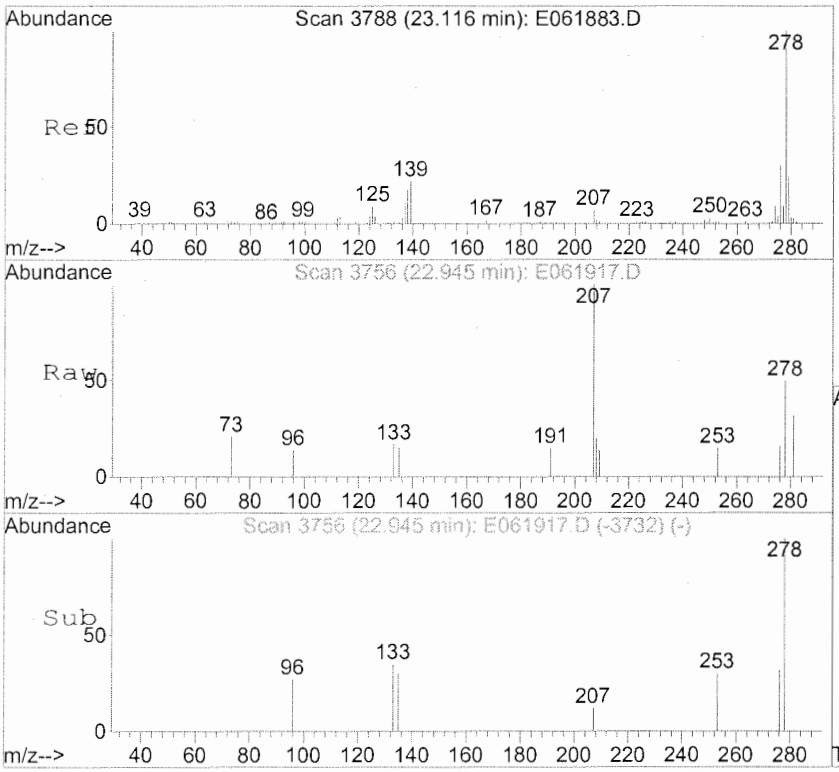


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.56 mg/L
RT: 22.88 min Scan# 3743
Delta R.T. -0.19 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:276 Resp: 2239

Ion	Ratio	Lower	Upper
276	100		
138	13.4	14.2	21.2#

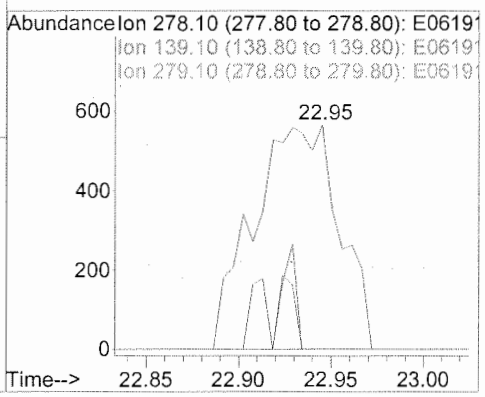


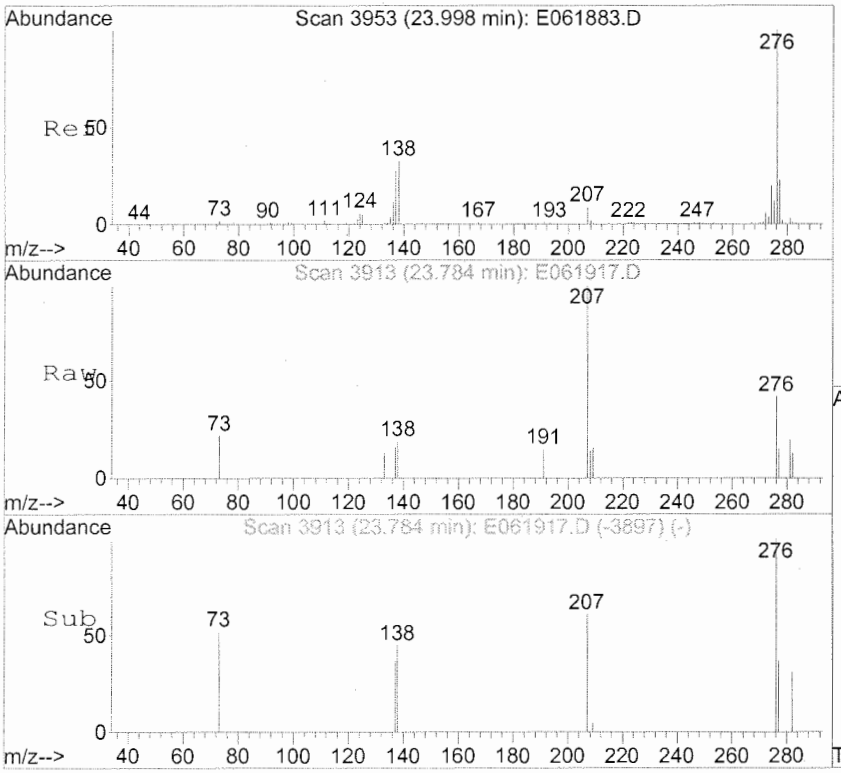


#86
Dibenz(a,h)anthracene
Concen: 0.53 mg/L
RT: 22.95 min Scan# 3756
Delta R.T. -0.17 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:278 Resp: 1809

Ion	Ratio	Lower	Upper
278	100		
139	7.7	12.1	18.1#
279	6.2	19.0	28.6#

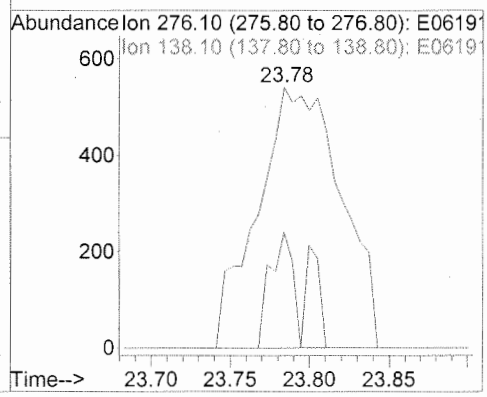




#87
Benzo(g,h,i)perylene
Concen: 0.61 mg/L
RT: 23.78 min Scan# 3913
Delta R.T. -0.21 min
Lab File: E061917.D
Acq: 29 Dec 2006 8:26 pm

Tgt Ion:276 Resp: 1981

Ion	Ratio	Lower	Upper
276	100		
138	12.2	14.3	21.5#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700100	**Prep Lot:**	DWG0700103	**Report Group:**	D0602139
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76018	**Prep Date:**	12/26/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061918.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 20:59	**Quant Date:**	01/02/2007 08:20	**Vial:**	15
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-004			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.33	0.00?	152	143792	40.00	OK
2	Naphthalene-d8	7.98	-0.01?	136	560334	40.00	OK
3	Acenaphthene-d10	10.23	0.00?	164	313453	40.00	OK
4	Phenanthrene-d10	12.10	-0.01?	188	497820	40.00	OK
5	Chrysene-d12	16.71	-0.01?	240	313991	40.00	OK
6	Perylene-d12	19.79	-0.01?	264	180877	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.70	-0.01	0.00	112	185351	40.49	81	23-115	OK	
1	Phenol-d5	5.84	0.00	0.00	99	259272	43.70	87	23-121	OK	
2	Nitrobenzene-d5	7.07	-0.01	0.00	82	229234	48.42	97	42-122	OK	
3	2-Fluorobiphenyl	9.35	0.00	0.00	172	450358	45.57	91	47-110	OK	
4	2,4,6-Tribromophenol	11.21	-0.01	0.00	330	51594	43.21	86	31-112	OK	
5	Terphenyl-d14	14.61	-0.01	0.00	244	123474	14.07	28	37-130	*	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.01	0.01	0.00	88	1563	0.7400	0.70	J	
1	N-Nitrosodimethylamine				42	0**d**		0.48	U	
1	Pyridine				79	0**d**		0.33	U	
1	Phenol	5.86		0.00	94	6674	1.07	1.0	J	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails accceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061918.D		**Instrument:** MSE
Acqu Date:	12/29/2006 20:59	**Quant Date:** 01/02/2007 08:20	**Vial:** 15
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0602139-004		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0d		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid				122	0d		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0d		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0d		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.75	-0.01	0.00	149	2128	0.2200	0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0d		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061918.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 20:59	**Quant Date:**	01/02/2007 08:20	**Vial:**	15
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-004			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.92	-0.01	0.00	149	4056	0.2700	0.26	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.78	-0.01	0.00	149	4294	0.5400	0.51	J	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061918.D Vial: 15
Acq On : 29 Dec 2006 8:59 pm Operator: GJ
Sample : D0602139-004 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:24:49 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

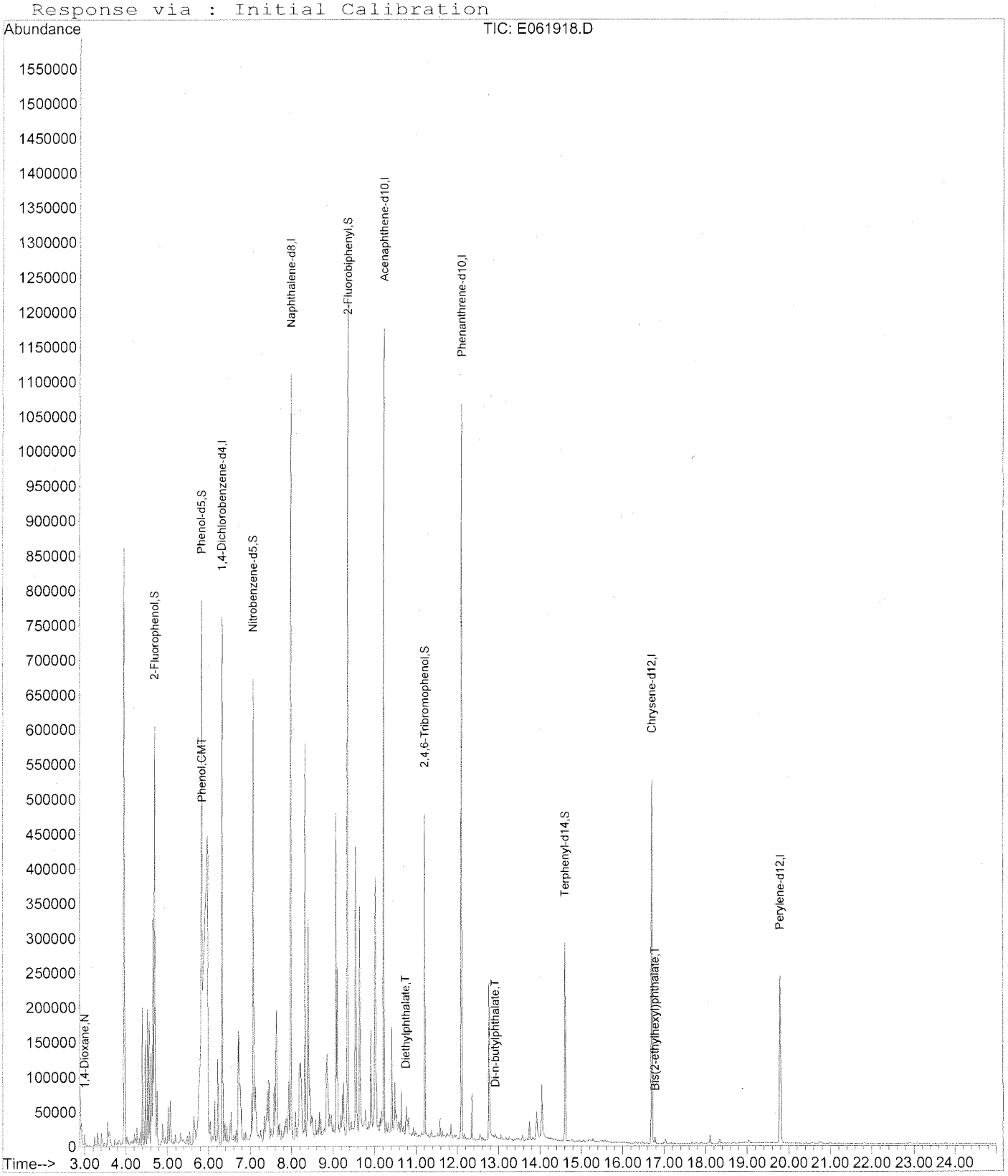
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	143792	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	560334	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	313453	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.10	188	497820	40.00	mg/L	-0.05
70) Chrysene-d12	16.71	240	313991	40.00	mg/L	-0.09
80) Perylene-d12	19.79	264	180877	40.00	mg/L	-0.12
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	185351	40.49	mg/L	-0.03
Spiked Amount 50.000			Recovery =	80.98%		
7) Phenol-d5	5.84	99	259272	43.70	mg/L	-0.03
Spiked Amount 50.000			Recovery =	87.40%		
23) Nitrobenzene-d5	7.07	82	229234	48.42	mg/L	-0.03
Spiked Amount 50.000			Recovery =	96.84%		
41) 2-Fluorobiphenyl	9.35	172	450358	45.57	mg/L	-0.04
Spiked Amount 50.000			Recovery =	91.14%		
61) 2,4,6-Tribromophenol	11.21	330	51594	43.21	mg/L	-0.05
Spiked Amount 50.000			Recovery =	86.42%		
73) Terphenyl-d14	14.61	244	123474	14.07	mg/L	-0.07
Spiked Amount 50.000			Recovery =	28.14%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	1563	0.74	mg/L #	78
8) Phenol	5.86	94	6674	1.07	mg/L #	1
54) Diethylphthalate	10.75	149	2128	0.22	mg/L	93
67) Carbazole	12.35	167	1204	Below Cal	#	64
68) Di-n-butylphthalate	12.92	149	4056	0.27	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	16.78	149	4294	0.54	mg/L	96

a1/2/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061918.D Vial: 15
Acq On : 29 Dec 2006 8:59 pm Operator: GJ
Sample : D0602139-004 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 8:20 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061918.D Vial: 15
Acq On : 29 Dec 2006 8:59 pm Operator: GJ
Sample : D0602139-004 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:24:49 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

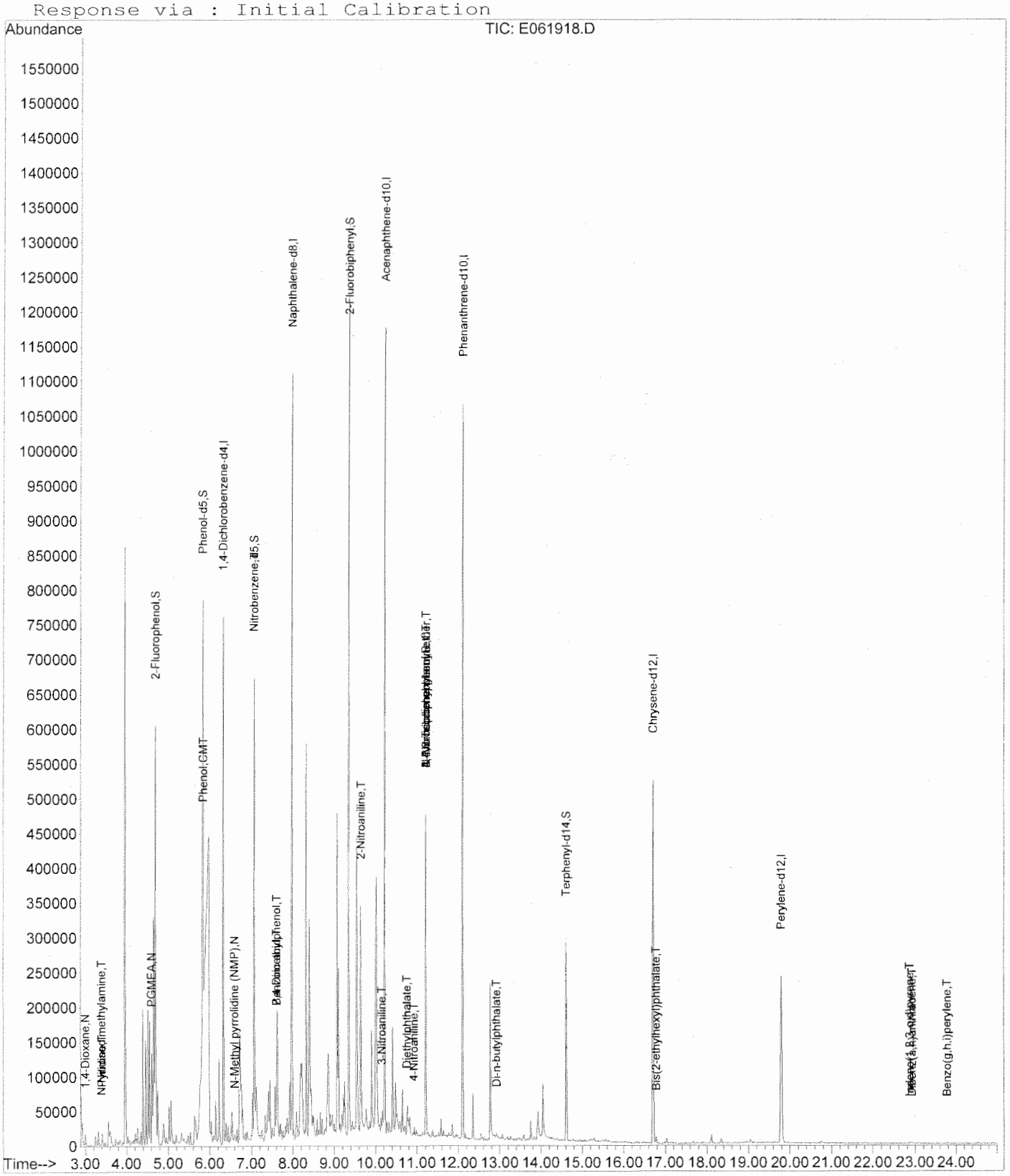
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	143792	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	560334	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	313453	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.10	188	497820	40.00	mg/L	-0.05
70) Chrysene-d12	16.71	240	313991	40.00	mg/L	-0.09
80) Perylene-d12	19.79	264	180877	40.00	mg/L	-0.12
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	185351	40.49	mg/L	-0.03
Spiked Amount 50.000			Recovery =	80.98%		
7) Phenol-d5	5.84	99	259272	43.70	mg/L	-0.03
Spiked Amount 50.000			Recovery =	87.40%		
23) Nitrobenzene-d5	7.07	82	229234	48.42	mg/L	-0.03
Spiked Amount 50.000			Recovery =	96.84%		
41) 2-Fluorobiphenyl	9.35	172	450358	45.57	mg/L	-0.04
Spiked Amount 50.000			Recovery =	91.14%		
61) 2,4,6-Tribromophenol	11.21	330	51594	43.21	mg/L	-0.05
Spiked Amount 50.000			Recovery =	86.42%		
73) Terphenyl-d14	14.61	244	123474	14.07	mg/L	-0.07
Spiked Amount 50.000			Recovery =	28.14%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	1563	0.74	mg/L #	78
3) N-Nitrosodimethylamine	3.39	42	734	0.27	mg/L #	1
4) Pyridine	3.41	79	1323	0.24	mg/L #	78
5) PGMEA	4.62	43	24787	2.50	mg/L #	66
8) Phenol	5.86	94	6674	1.07	mg/L #	1
16) N-Methyl pyrrolidine (NMP)	6.60	99	1809	0.54	mg/L	93
24) Nitrobenzene	7.07	77	1015	0.20	mg/L #	33
27) 2,4-Dimethylphenol	7.61	122	6002	1.32	mg/L #	1
28) Benzoic acid	7.61	122	6002	2.01	mg/L	88
43) 2-Nitroaniline	9.65	65	1132	0.42	mg/L #	20
47) 3-Nitroaniline	10.16	138	544	2.07	mg/L #	1
54) Diethylphthalate	10.75	149	2128	0.22	mg/L	93
56) 4-Nitroaniline	10.94	138	82	2.18	mg/L #	18
59) N-Nitrosodiphenylamine	11.21	169	2524	0.36	mg/L #	40
62) 4-Bromophenyl phenyl ether	11.21	248	3170	1.21	mg/L #	1
67) Carbazole	12.35	167	1204	Below Cal	#	64
68) Di-n-butylphthalate	12.92	149	4056	0.27	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	16.78	149	4294	0.54	mg/L	96
85) Indeno(1,2,3-c,d)pyrene	22.87	276	1929	0.46	mg/L	99
86) Dibenz(a,h)anthracene	22.92	278	1704	0.47	mg/L #	59
87) Benzo(g,h,i)perylene	23.77	276	1749	0.51	mg/L #	69

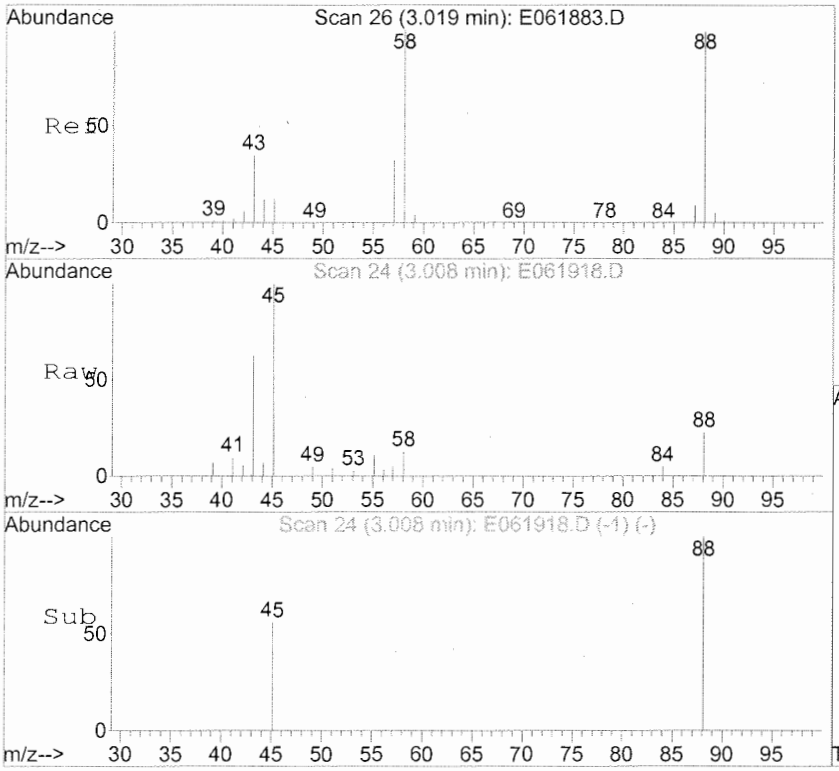
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061918.D Vial: 15
Acq On : 29 Dec 2006 8:59 pm Operator: GJ
Sample : D0602139-004 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:24 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

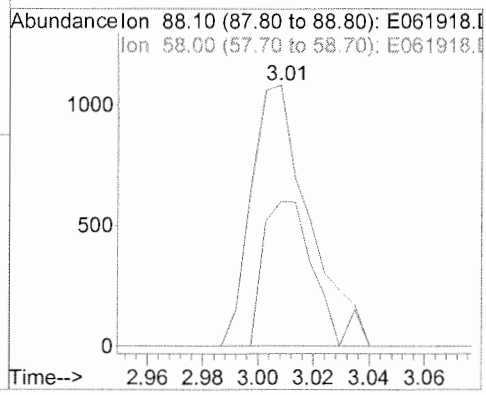


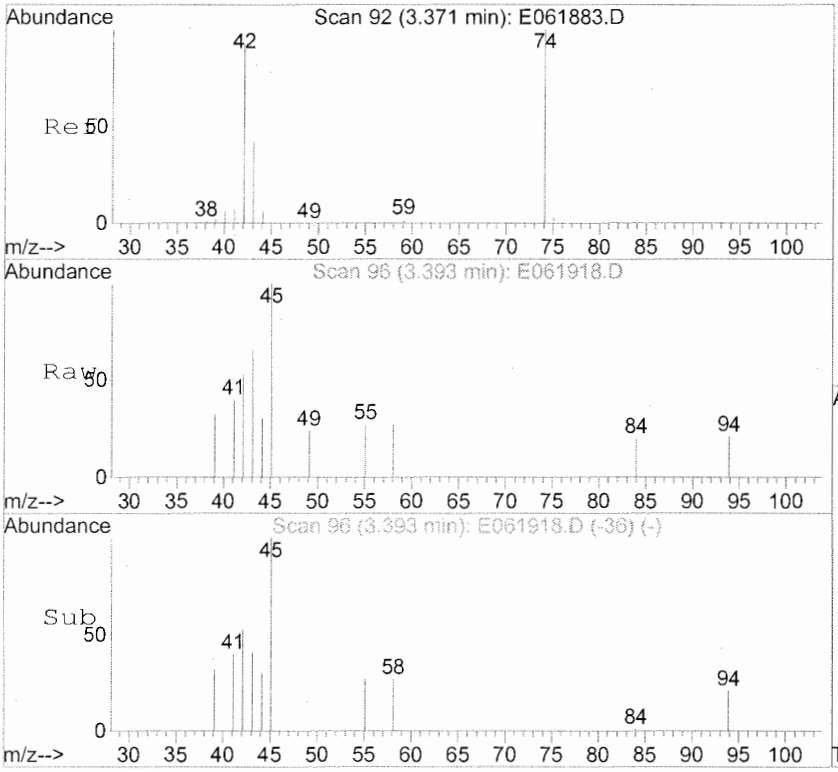


#2
1,4-Dioxane
Concen: 0.74 mg/L
RT: 3.01 min Scan# 24
Delta R.T. -0.01 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion: 88 Resp: 1563

Ion	Ratio	Lower	Upper
88	100		
58	49.6	53.5	80.3#

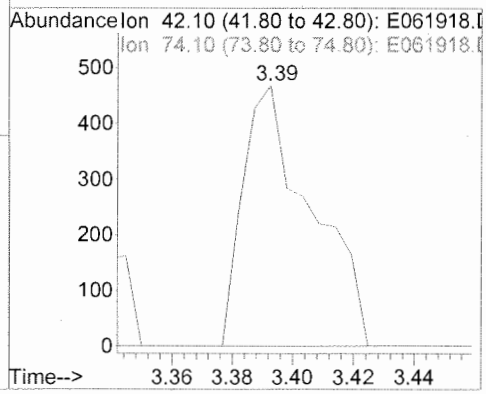


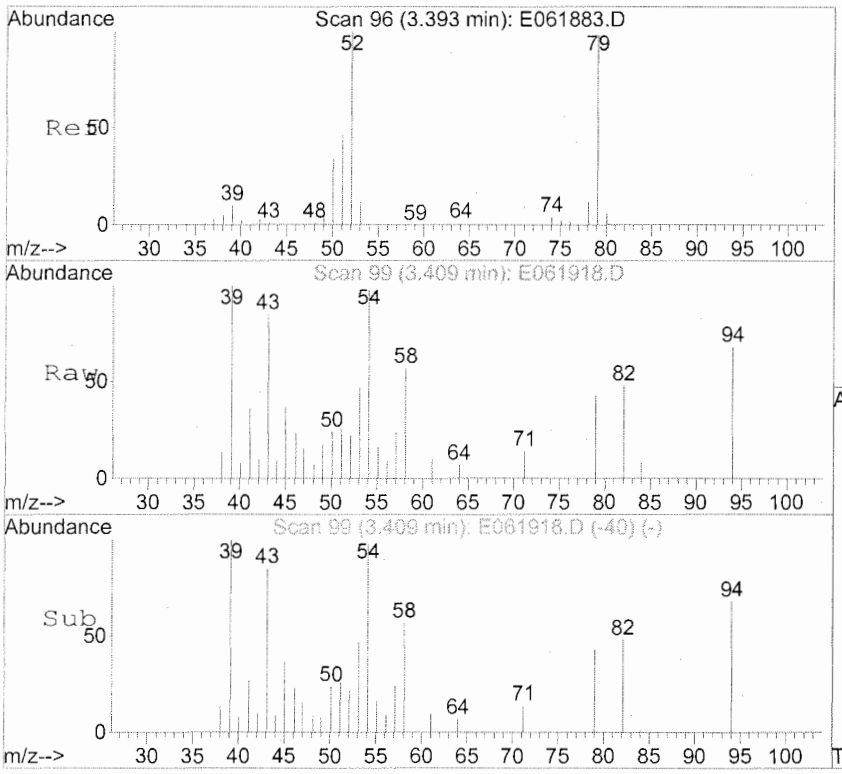


#3
N-Nitrosodimethylamine
Concen: 0.27 mg/L
RT: 3.39 min Scan# 96
Delta R.T. 0.02 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion: 42 Resp: 734

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

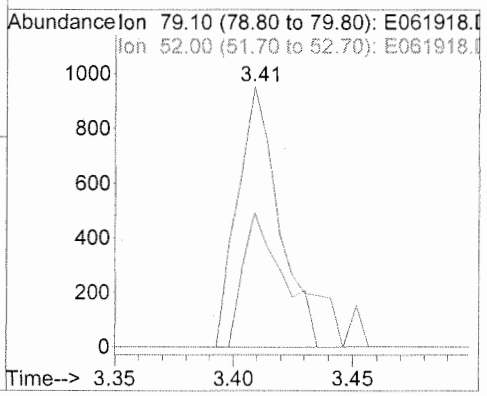


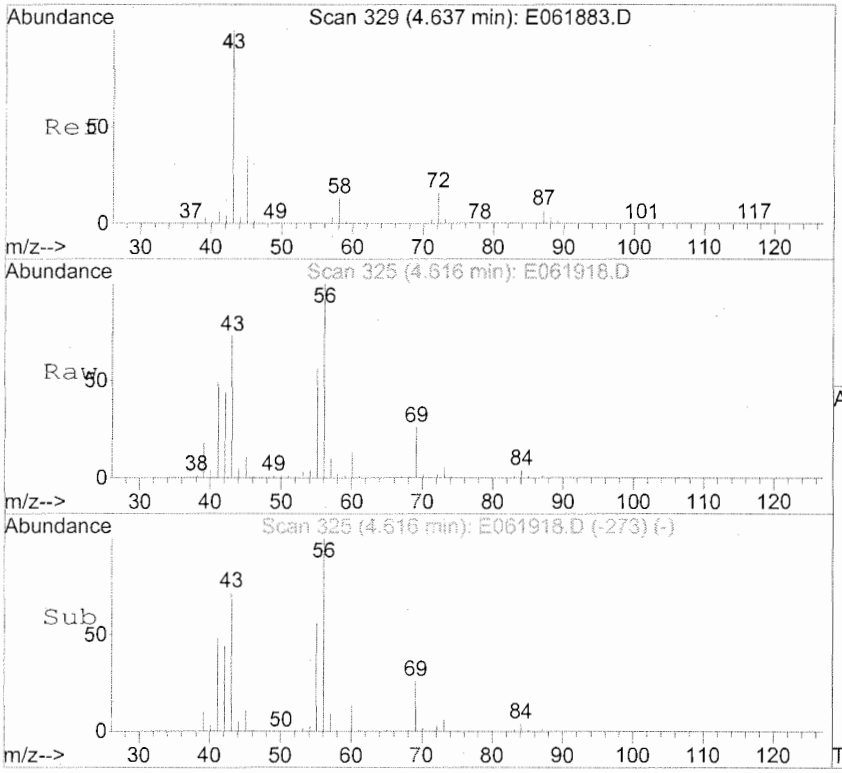


#4
Pyridine
Concen: 0.24 mg/L
RT: 3.41 min Scan# 99
Delta R.T. 0.02 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion: 79 Resp: 1323

Ion	Ratio	Lower	Upper
79	100		
52	44.2	48.9	73.3#

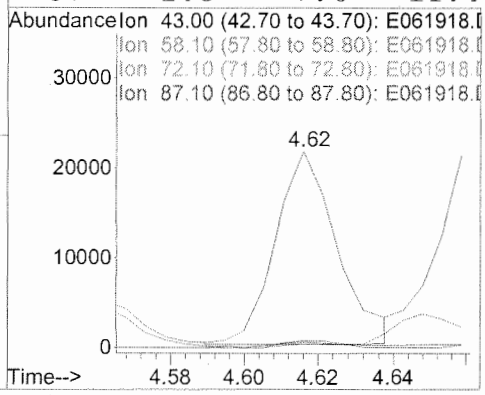


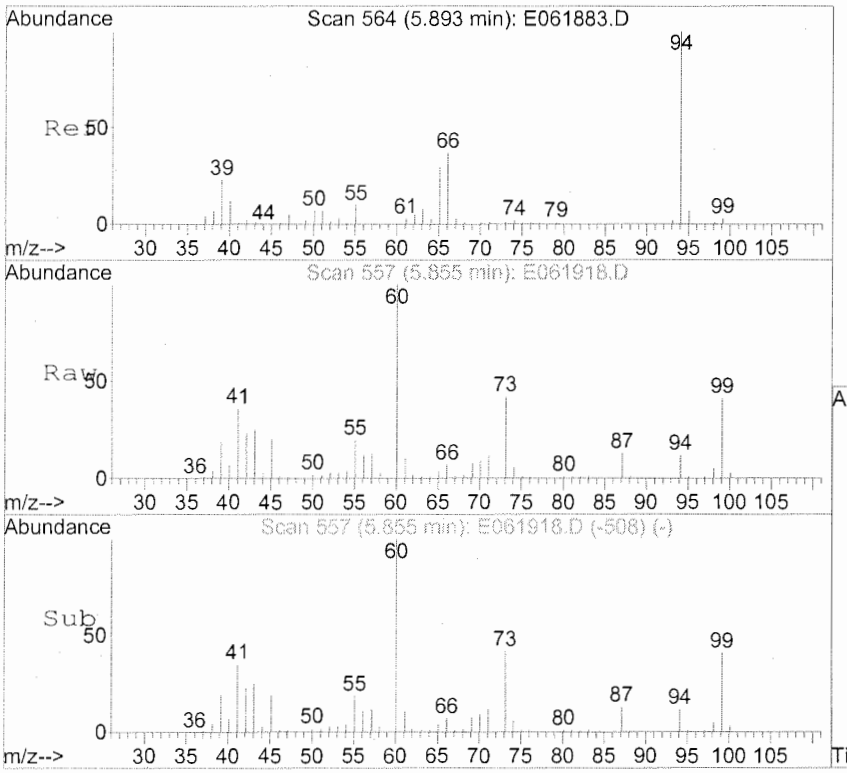


#5
PGMEA
Concen: 2.50 mg/L
RT: 4.62 min Scan# 325
Delta R.T. -0.02 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion: 43 Resp: 24787

Ion	Ratio	Lower	Upper
43	100		
58	2.7	9.7	14.5#
72	3.2	20.4	30.6#
87	2.3	7.6	11.4#

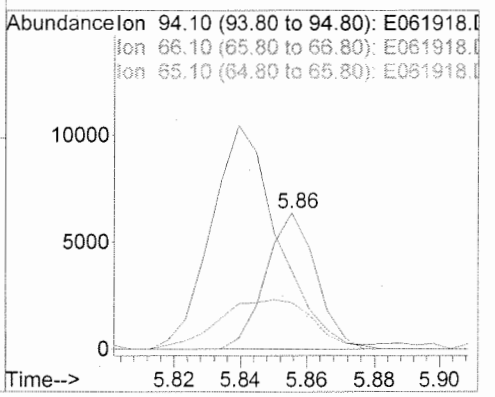


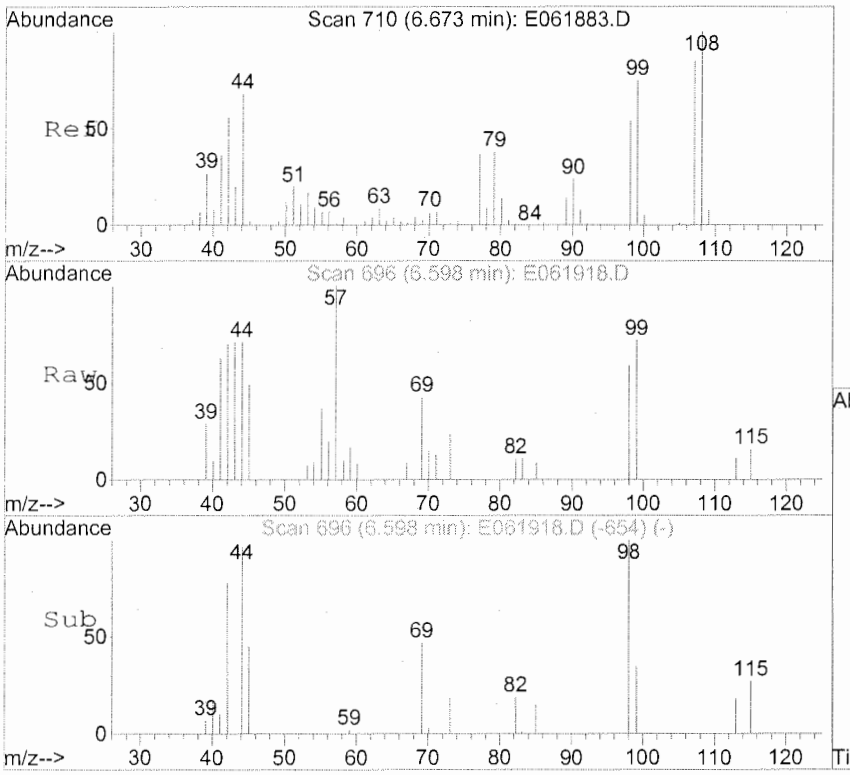


#8
Phenol
Concen: 1.07 mg/L
RT: 5.86 min Scan# 557
Delta R.T. -0.04 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion: 94 Resp: 6674

Ion	Ratio	Lower	Upper
94	100		
66	219.8	38.3	57.5#
65	68.2	27.1	40.7#

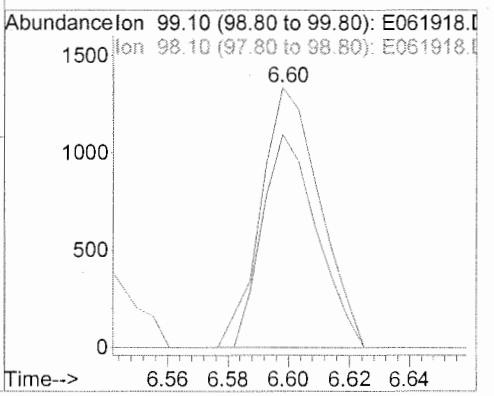


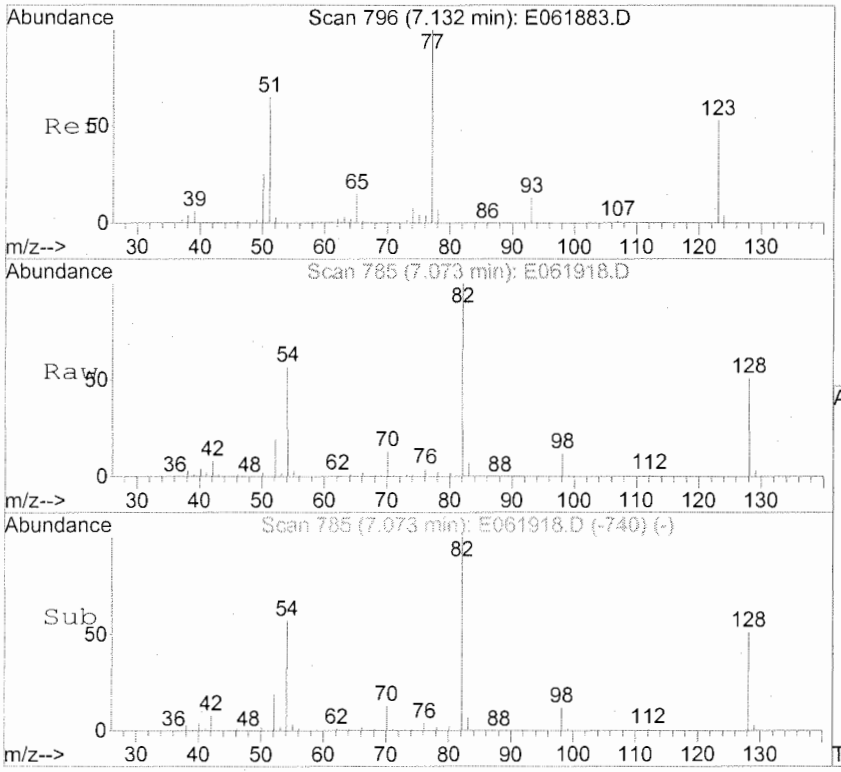


#16
N-Methyl pyrrolidine (NMP)
Concen: 0.54 mg/L
RT: 6.60 min Scan# 696
Delta R.T. -0.07 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion: 99 Resp: 1809

Ion	Ratio	Lower	Upper
99	100		
98	75.9	56.4	84.6

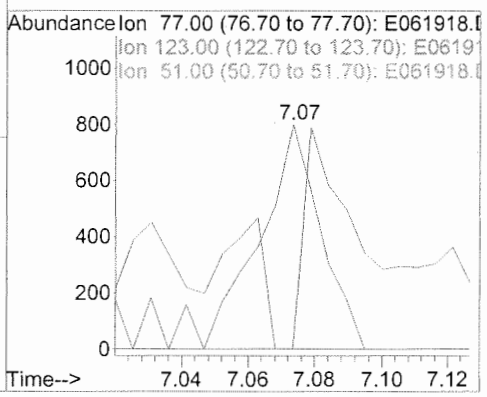


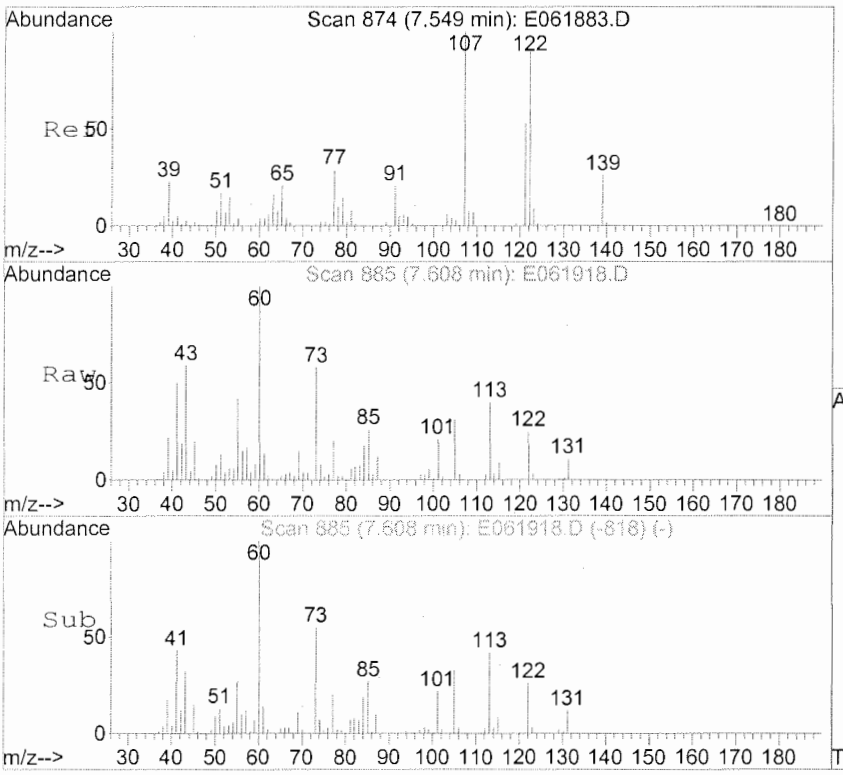


#24
Nitrobenzene
Concen: 0.20 mg/L
RT: 7.07 min Scan# 785
Delta R.T. -0.06 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion: 77 Resp: 1015

Ion	Ratio	Lower	Upper
77	100		
123	0.0	31.7	47.5#
51	97.0	39.7	59.5#

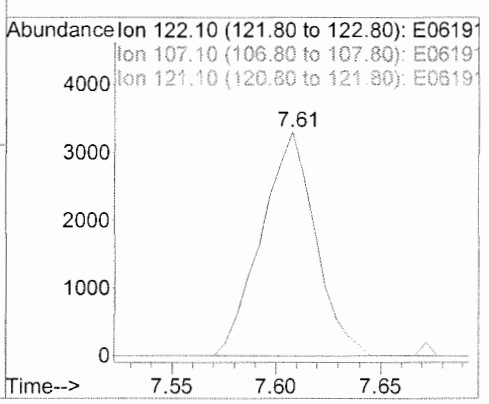


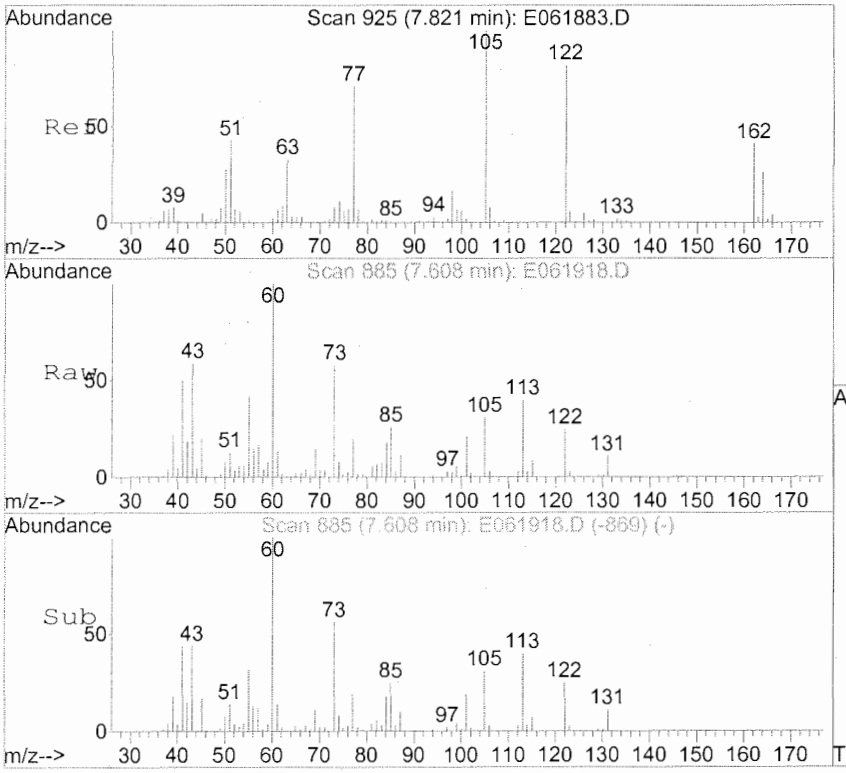


#27
2,4-Dimethylphenol
Concen: 1.32 mg/L
RT: 7.61 min Scan# 885
Delta R.T. 0.06 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:122 Resp: 6002

Ion	Ratio	Lower	Upper
122	100		
107	0.0	104.4	156.6#
121	0.0	46.2	69.2#

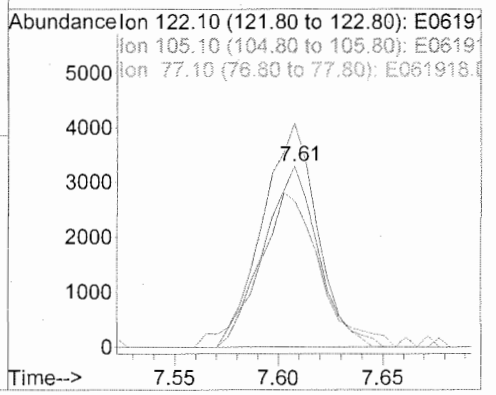


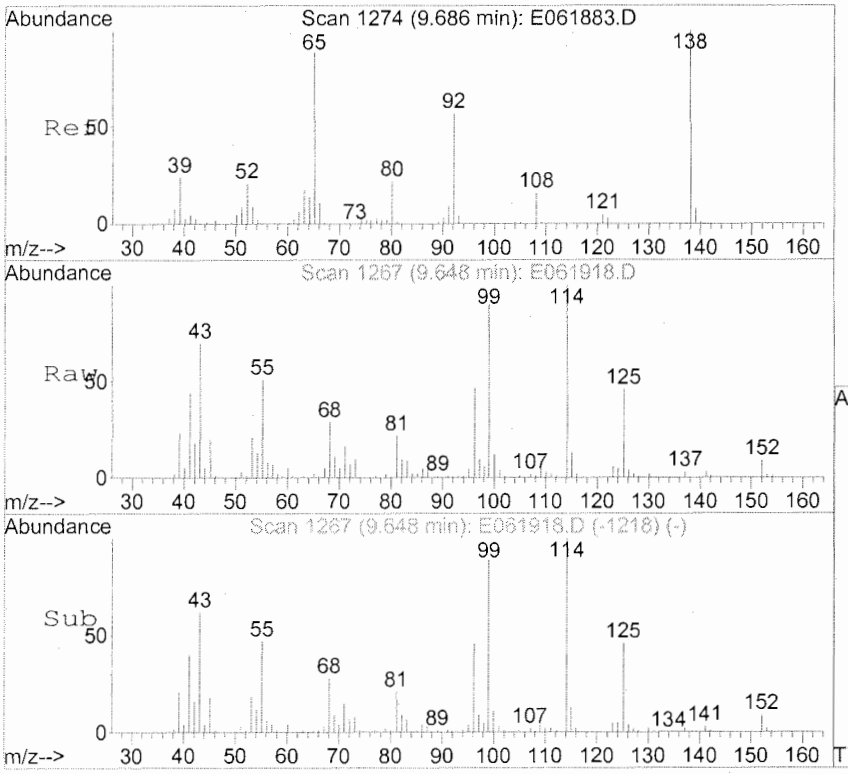


#28
Benzoic acid
Concen: 2.01 mg/L
RT: 7.61 min Scan# 885
Delta R.T. -0.21 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:122 Resp: 6002

Ion	Ratio	Lower	Upper
122	100		
105	125.7	110.2	165.2
77	97.0	89.8	134.8

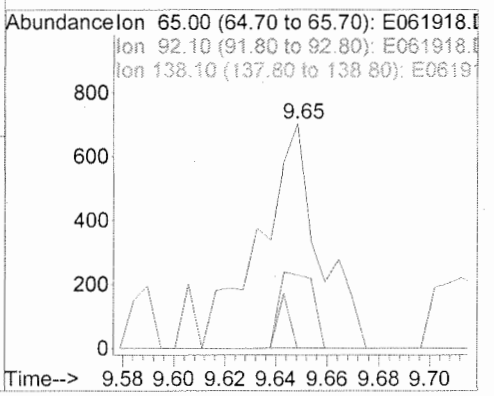


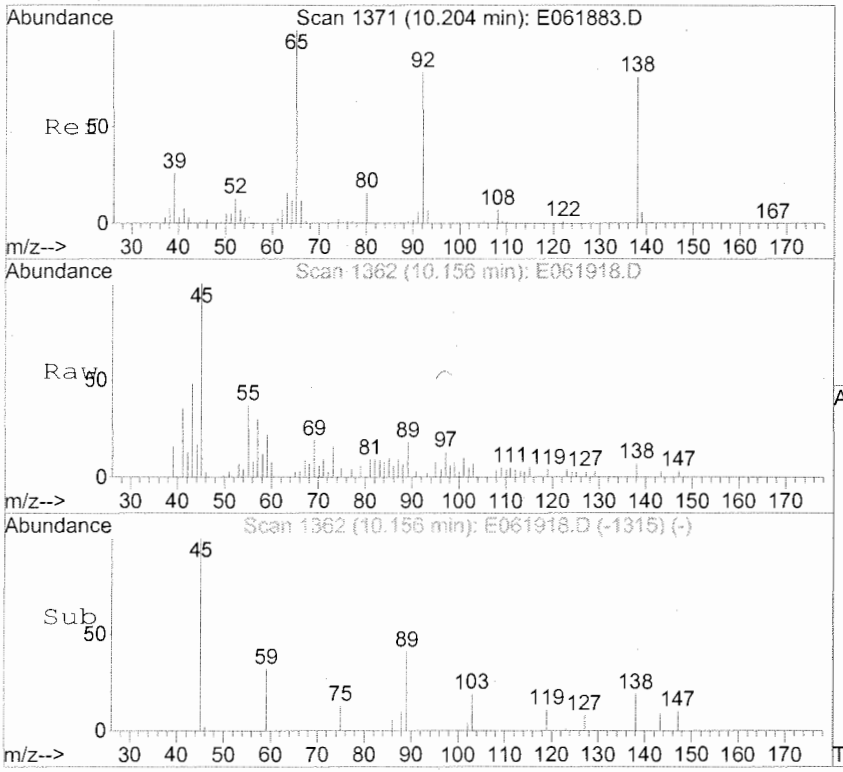


#43
2-Nitroaniline
Concen: 0.42 mg/L
RT: 9.65 min Scan# 1267
Delta R.T. -0.04 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion: 65 Resp: 1132

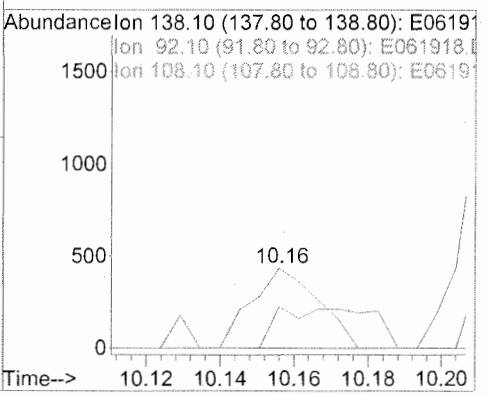
Ion	Ratio	Lower	Upper
65	100		
92	19.4	51.9	77.9#
138	4.9	80.2	120.2#

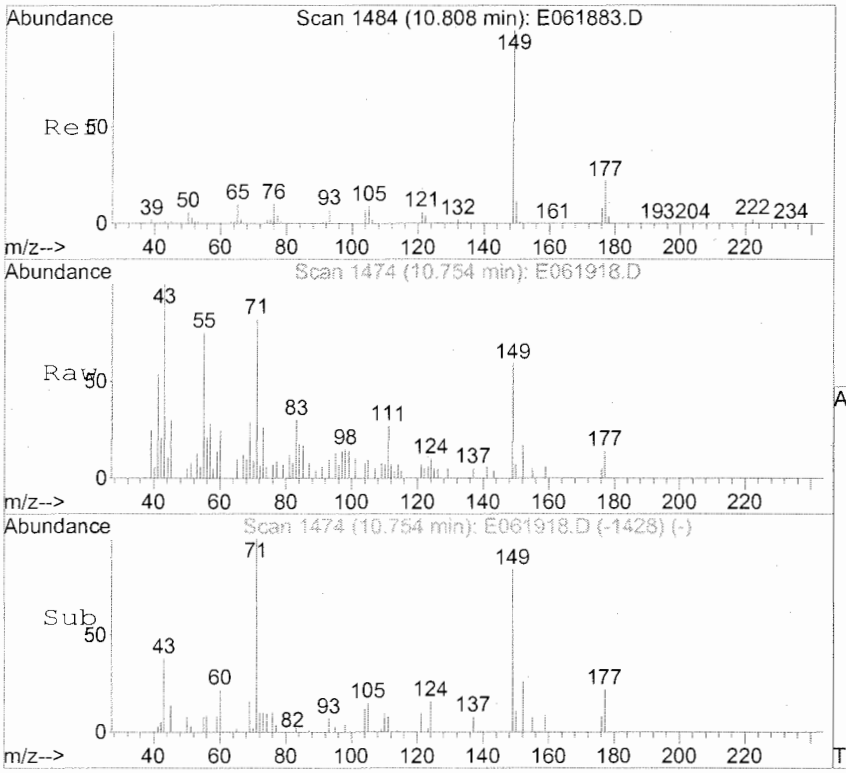




#47
3-Nitroaniline
Concen: 2.07 mg/L
RT: 10.16 min Scan# 1362
Delta R.T. -0.05 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

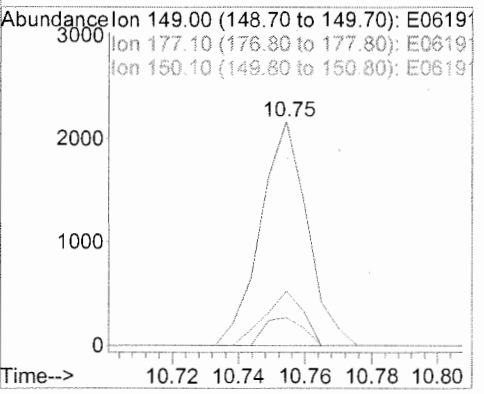
Tgt Ion:138	Resp:	544	
Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.2	142.8#
108	70.8	8.1	12.1#

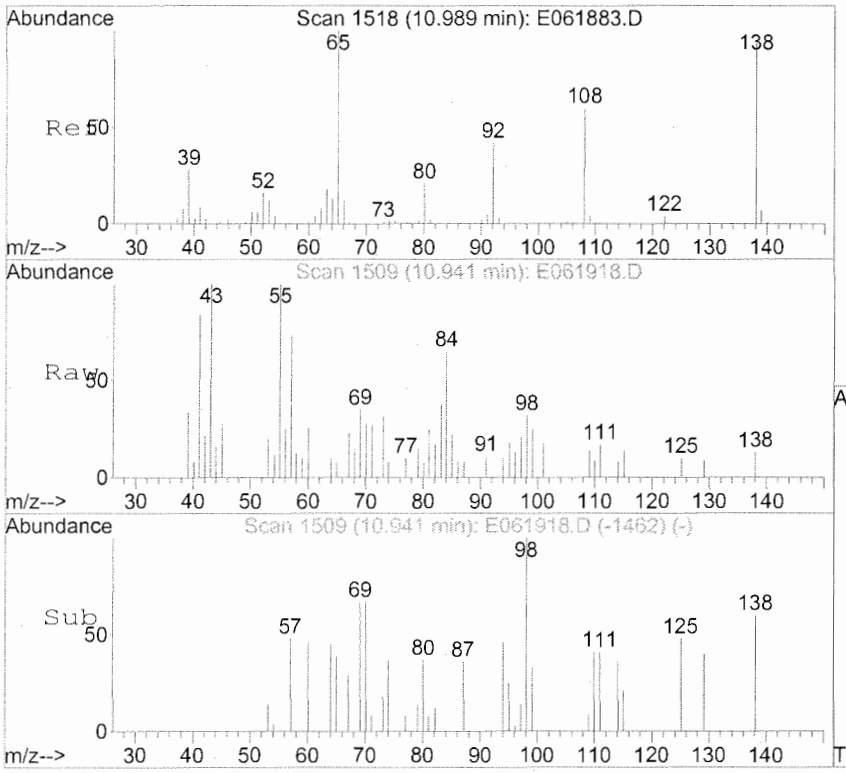




#54
Diethylphthalate
Concen: 0.22 mg/L
RT: 10.75 min Scan# 1474
Delta R.T. -0.05 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

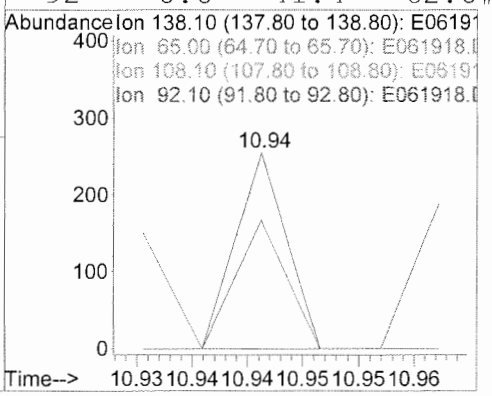
Tgt Ion:149	Resp:	2128	
Ion	Ratio	Lower	Upper
149	100		
177	20.0	19.0	28.6
150	10.2	10.0	15.0

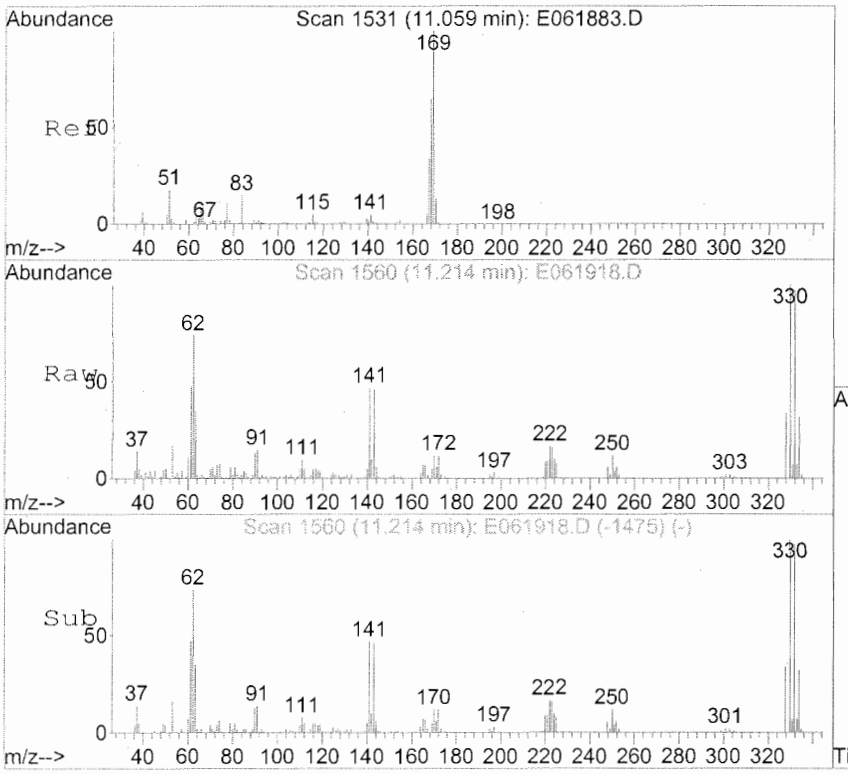




#56
4-Nitroaniline
Concen: 2.18 mg/L
RT: 10.94 min Scan# 1509
Delta R.T. -0.05 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

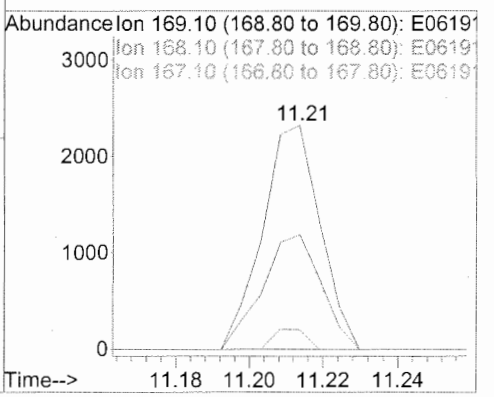
Tgt Ion:138	Resp:	82	
Ion	Ratio	Lower	Upper
138	100		
65	182.9	86.4	129.6#
108	0.0	75.0	112.6#
92	0.0	41.4	62.0#

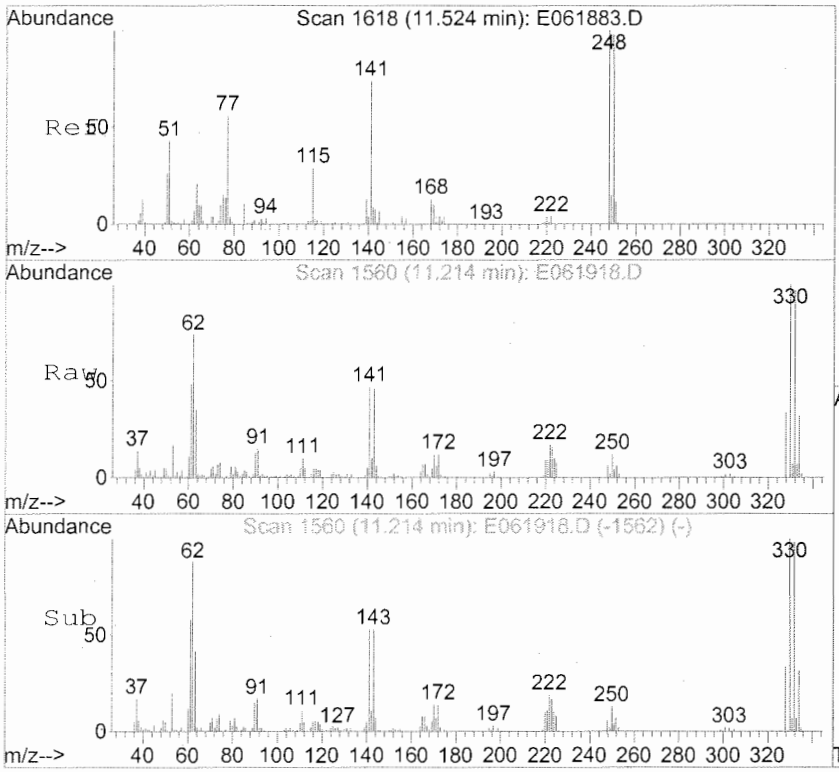




#59
N-Nitrosodiphenylamine
Concen: 0.36 mg/L
RT: 11.21 min Scan# 1560
Delta R.T. 0.15 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:169	Resp:	2524	
Ion	Ratio	Lower	Upper
169	100		
168	5.2	50.8	76.2#
167	52.2	27.0	40.4#

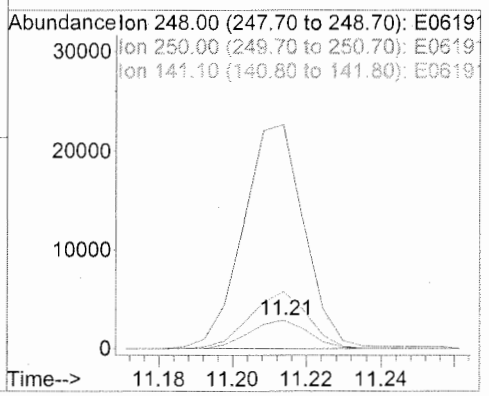


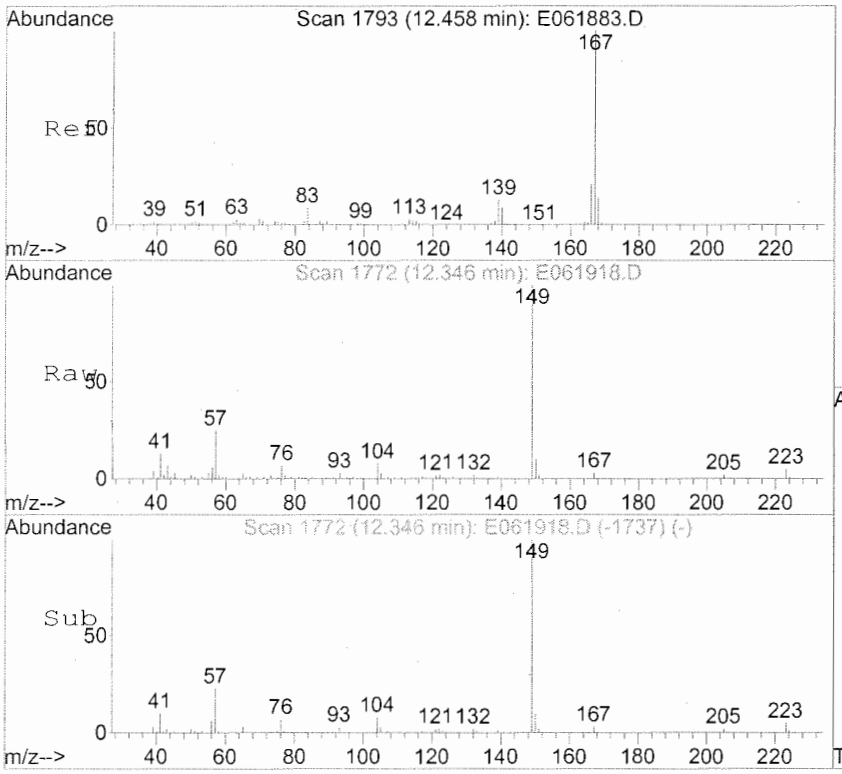


#62
4-Bromophenyl phenyl ether
Concen: 1.21 mg/L
RT: 11.21 min Scan# 1560
Delta R.T. -0.31 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:248 Resp: 3170

Ion	Ratio	Lower	Upper
248	100		
250	197.7	79.0	118.4#
141	828.9	64.3	96.5#

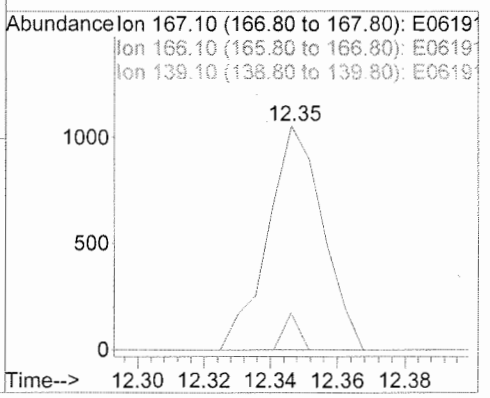


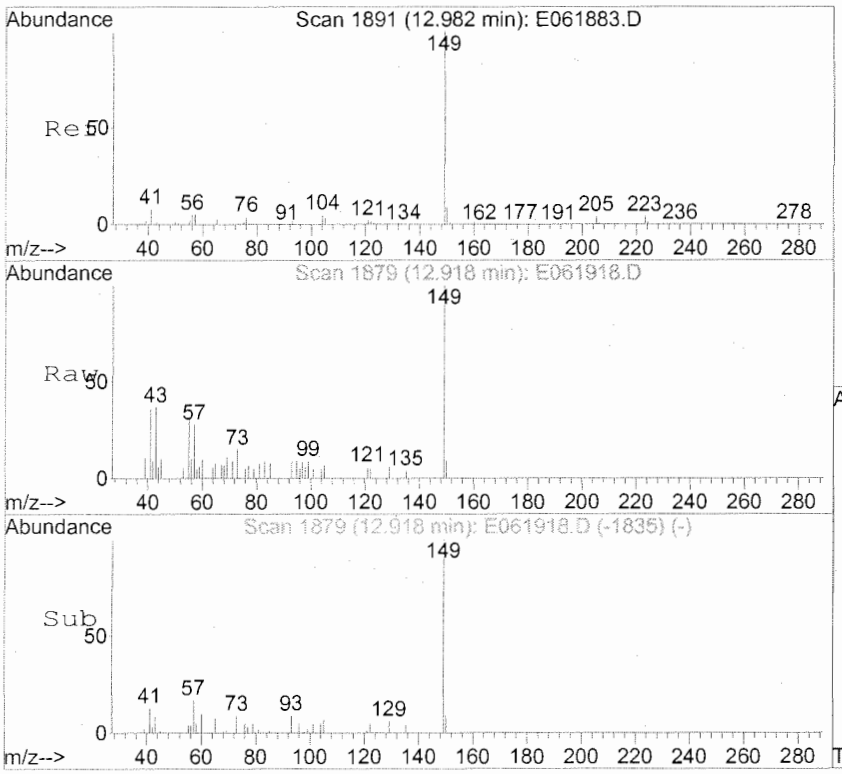


#67
Carbazole
Concen: Below Cal
RT: 12.35 min Scan# 1772
Delta R.T. -0.11 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:167 Resp: 1204

Ion	Ratio	Lower	Upper
167	100		
166	0.0	17.2	25.8#
139	4.6	10.6	16.0#

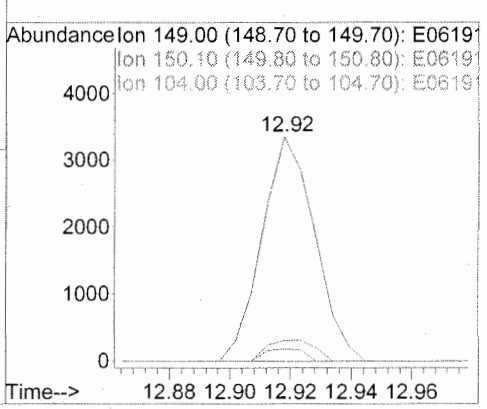


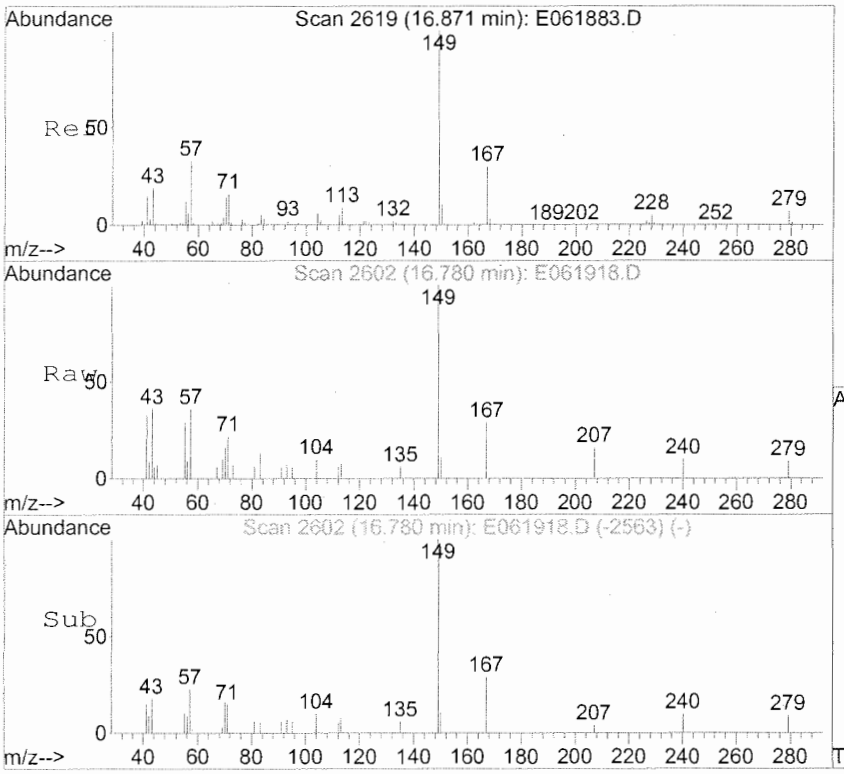


#68
Di-n-butylphthalate
Concen: 0.27 mg/L
RT: 12.92 min Scan# 1879
Delta R.T. -0.06 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:149 Resp: 4056

Ion	Ratio	Lower	Upper
149	100		
150	8.4	7.3	10.9
104	4.0	4.6	7.0#

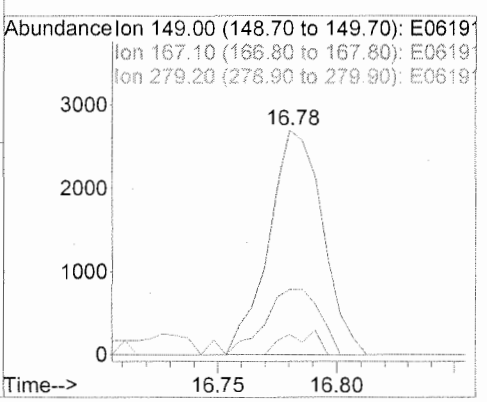


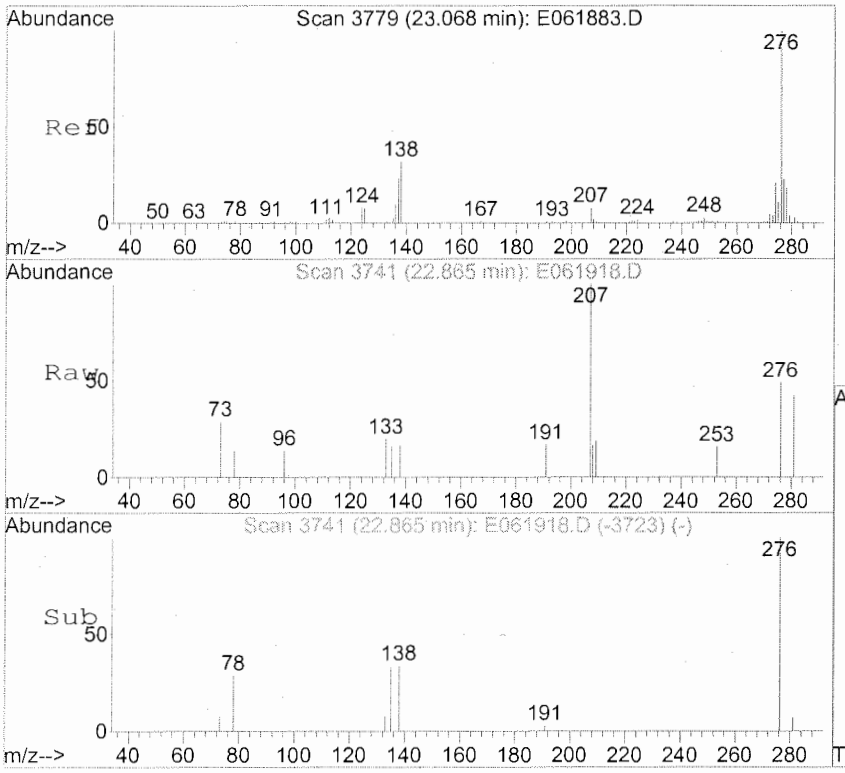


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.54 mg/L
RT: 16.78 min Scan# 2602
Delta R.T. -0.09 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:149 Resp: 4294

Ion	Ratio	Lower	Upper
149	100		
167	29.3	25.0	37.6
279	6.4	6.2	9.2

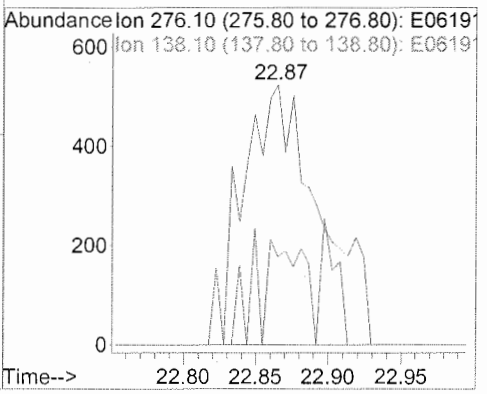


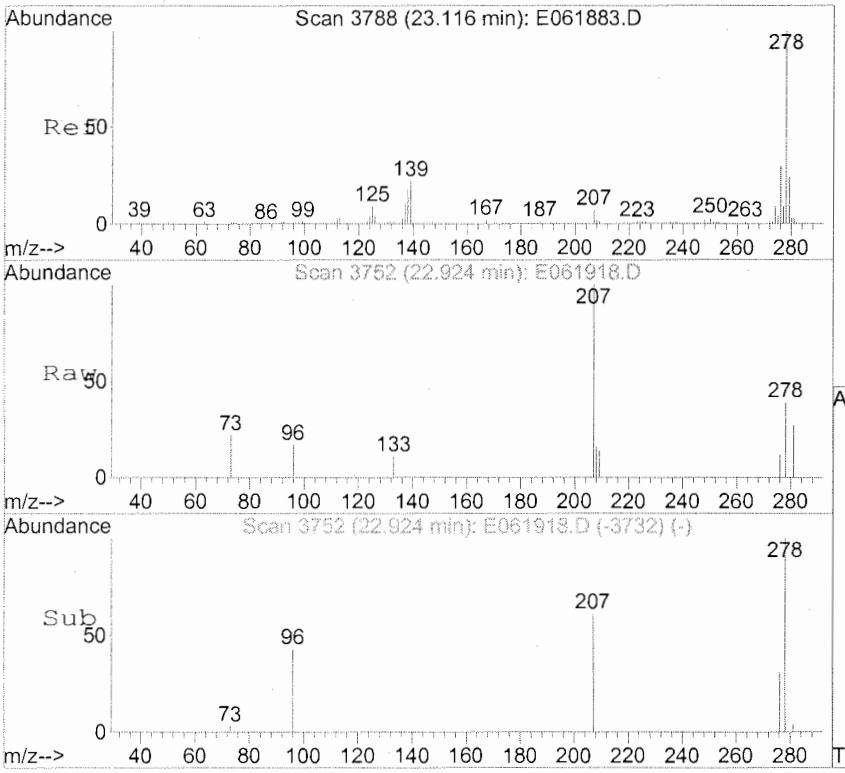


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.46 mg/L
RT: 22.87 min Scan# 3741
Delta R.T. -0.20 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:276 Resp: 1929

Ion	Ratio	Lower	Upper
276	100		
138	18.1	14.2	21.2

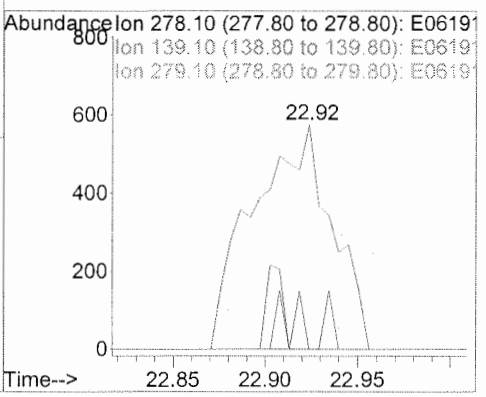


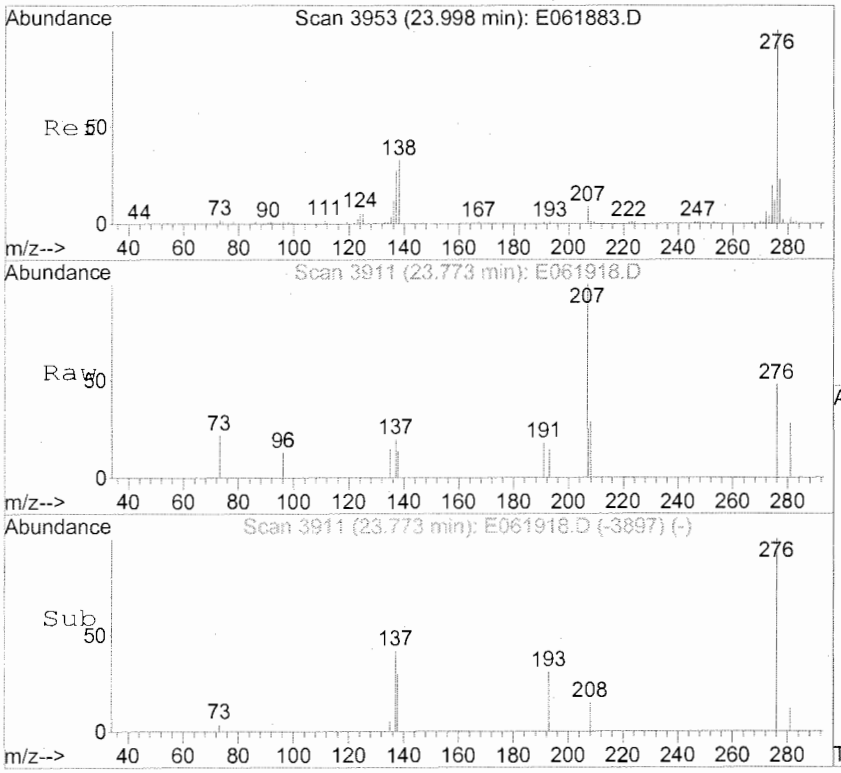


#86
Dibenz(a,h)anthracene
Concen: 0.47 mg/L
RT: 22.92 min Scan# 3752
Delta R.T. -0.19 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:278 Resp: 1704

Ion	Ratio	Lower	Upper
278	100		
139	2.9	12.1	18.1#
279	0.0	19.0	28.6#

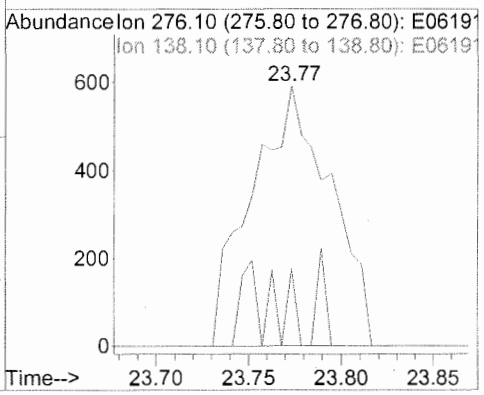




#87
Benzo(g,h,i)perylene
Concen: 0.51 mg/L
RT: 23.77 min Scan# 3911
Delta R.T. -0.22 min
Lab File: E061918.D
Acq: 29 Dec 2006 8:59 pm

Tgt Ion:276 Resp: 1749

Ion	Ratio	Lower	Upper
276	100		
138	4.1	14.3	21.5#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700100	**Prep Lot:**	DWG0700103	**Report Group:**	D0602139
Analysis Method:	8270C	**Prep Method:**	EPA 3520C		
Prep Ref:	76019	**Prep Date:**	12/26/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061226.M	**Calibration ID:**	CAL1241
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061904.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061229B\E061906.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061919.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 21:31	**Quant Date:**	01/02/2007 08:25	**Vial:**	16
Run Type:	SMPL			**Dilution:**	10.0
Lab ID:	D0602139-006			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	6.33	0.00?	152	152077	40.00	OK
2	Naphthalene-d8	7.98	-0.01?	136	592260	40.00	OK
3	Acenaphthene-d10	10.23	0.00?	164	332758	40.00	OK
4	Phenanthrene-d10	12.11	0.00?	188	528373	40.00	OK
5	Chrysene-d12	16.72	0.00?	240	303410	40.00	OK
6	Perylene-d12	19.80	0.00?	264	159170	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.70	-0.01	0.00	112	19812	4.09	82	23-115	OK	
1	Phenol-d5	5.83	-0.01	0.00	99	26791	4.27	85	23-121	OK	
2	Nitrobenzene-d5	7.07	-0.01	0.00	82	24287	4.85	97	42-122	OK	
3	2-Fluorobiphenyl	9.35	0.00	0.00	172	43647	4.16	83	47-110	OK	
4	2,4,6-Tribromophenol	11.21	-0.01	0.00	330	5071	4.00	80	31-112	OK	
5	Terphenyl-d14	14.62	0.00	0.00	244	24625	2.90	58	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		4.1	U	
1	N-Nitrosodimethylamine				42	0d		4.8	U	
1	Pyridine				79	0		3.3	U	
1	Phenol	5.85	-0.01	0.00	94	4724	0.7100	6.8	JD	
1	Aniline				93	0		3.4	U	
1	Bis(2-chloroethyl) Ether				93	0		2.4	U	
1	2-Chlorophenol				128	0		2.4	U	
1	1,3-Dichlorobenzene				146	0		2.0	U	
1	1,4-Dichlorobenzene				146	0		2.4	U	
1	Benzyl alcohol				108	0		2.2	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061919.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 21:31	**Quant Date:**	01/02/2007 08:25	**Vial:**	16
Run Type:	SMPL			**Dilution:**	10.0
Lab ID:	D0602139-006			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		1.7	U	
1	2-Methylphenol				108	0		3.2	U	
1	Bis(2-Chloroisopropyl)ether				45	0d		2.4	U	
1	4-Methylphenol				107	0		2.8	U	
1	N-Nitrosodi-n-propylamine				70	0d		2.8	U	
1	Hexachloroethane				117	0d		25	U	
2	Nitrobenzene				77	0		2.6	U	
2	Isophorone				82	0		3.0	U	
2	2-Nitrophenol				139	0		2.6	U	
2	2,4-Dimethylphenol				122	0d		8.3	U	
2	Benzoic acid				122	0d		200	U	
2	bis(2-Chloroethoxy)methane				93	0		3.2	U	
2	2,4-Dichlorophenol				162	0		2.3	U	
2	1,2,4-Trichlorobenzene				180	0		2.0	U	
2	Naphthalene				128	0		2.1	U	
2	4-Chloroaniline				127	0		3.6	U	
2	Hexachlorobutadiene				225	0		2.2	U	
2	4-Chloro-3-methylphenol				107	0d		3.2	U	
2	2-Methylnaphthalene				142	0		1.8	U	
3	Hexachlorocyclopentadiene				237	0		18	U	
3	2,4,6-Trichlorophenol				196	0d		2.7	U	
3	2,4,5-Trichlorophenol				196	0		2.8	U	
3	2-Chloronaphthalene				162	0		2.2	U	
3	2-Nitroaniline				65	0		2.7	U	
3	Dimethyl Phthalate				163	0		2.6	U	
3	Acenaphthylene				152	0		2.3	U	
3	2,6-Dinitrotoluene				165	0		3.0	U	
3	3-Nitroaniline				138	0d		2.9	U	
3	Acenaphthene				154	0		1.5	U	
3	2,4-Dinitrophenol				184	0		100	U	
3	4-Nitrophenol				109	0d		200	U	
3	Dibenzofuran				168	0		2.2	U	
3	2,4-Dinitrotoluene				165	0		3.0	U	
3	Fluorene				166	0		2.2	U	
3	Diethyl Phthalate				149	0		2.8	U	
3	4-Chlorophenyl Phenyl Ether				204	0		2.1	U	
3	4-Nitroaniline				138	0d		3.6	U	
4	2-Methyl-4,6-dinitrophenol				198	0		2.0	U	
4	N-Nitrosodiphenylamine				169	0		2.3	U	
4	4-Bromophenyl Phenyl Ether				248	0		1.8	U	
4	Hexachlorobenzene				284	0		2.1	U	
4	Pentachlorophenol				266	0		6.3	U	
4	Phenanthrene				178	0d		2.2	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061229B\E061919.D			**Instrument:**	MSE
Acqu Date:	12/29/2006 21:31	**Quant Date:**	01/02/2007 08:25	**Vial:**	16
Run Type:	SMPL			**Dilution:**	10.0
Lab ID:	D0602139-006			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		2.1	U	
4	Di-n-butyl Phthalate				149	0		2.5	U	
4	Fluoranthene				202	0**d**		2.1	U	
5	Pyrene				202	0**d**		3.3	U	
5	Butyl Benzyl Phthalate				149	0		4.8	U	
5	3,3'-Dichlorobenzidine				252	0		8.4	U	
5	Benz(a)anthracene				228	0**d**		2.1	U	
5	Chrysene				228	0**d**		2.2	U	
5	Bis(2-ethylhexyl) Phthalate				149	0**d**		3.0	U	
6	Di-n-octyl Phthalate				149	0		3.3	U	
6	Benzo(b)fluoranthene				252	0**d**		4.2	U	
6	Benzo(k)fluoranthene				252	0**d**		3.2	U	
6	Benzo(a)pyrene				252	0		5.4	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		6.5	U	
6	Dibenz(a,h)anthracene				278	0**d**		6.2	U	
6	Benzo(g,h,i)perylene				276	0**d**		7.4	U	

Prep Amount:	1050 ml	**Dilution:**	10.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte uot reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061919.D Vial: 16
Acq On : 29 Dec 2006 9:31 pm Operator: GJ
Sample : D0602139-006 1/10 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:25:03 2006 Quant Results File: BA061226.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	152077	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	592260	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	332758	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.11	188	528373	40.00	mg/L	-0.05
70) Chrysene-d12	16.72	240	303410	40.00	mg/L	-0.07
80) Perylene-d12	19.80	264	159170	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	19812	4.09	mg/L	-0.03
Spiked Amount 50.000			Recovery =	8.18%		
7) Phenol-d5	5.83	99	26791	4.27	mg/L	-0.04
Spiked Amount 50.000			Recovery =	8.54%		
23) Nitrobenzene-d5	7.07	82	24287	4.85	mg/L	-0.03
Spiked Amount 50.000			Recovery =	9.70%		
41) 2-Fluorobiphenyl	9.35	172	43647	4.16	mg/L	-0.04
Spiked Amount 50.000			Recovery =	8.32%		
61) 2,4,6-Tribromophenol	11.21	330	5071	4.00	mg/L	-0.05
Spiked Amount 50.000			Recovery =	8.00%		
73) Terphenyl-d14	14.62	244	24625	2.90	mg/L	-0.07
Spiked Amount 50.000			Recovery =	5.80%		
Target Compounds						Qvalue
8) Phenol	5.85	94	4724	0.71	mg/L	# 69
67) Carbazole	12.41	167	1250	Below Cal		# 52

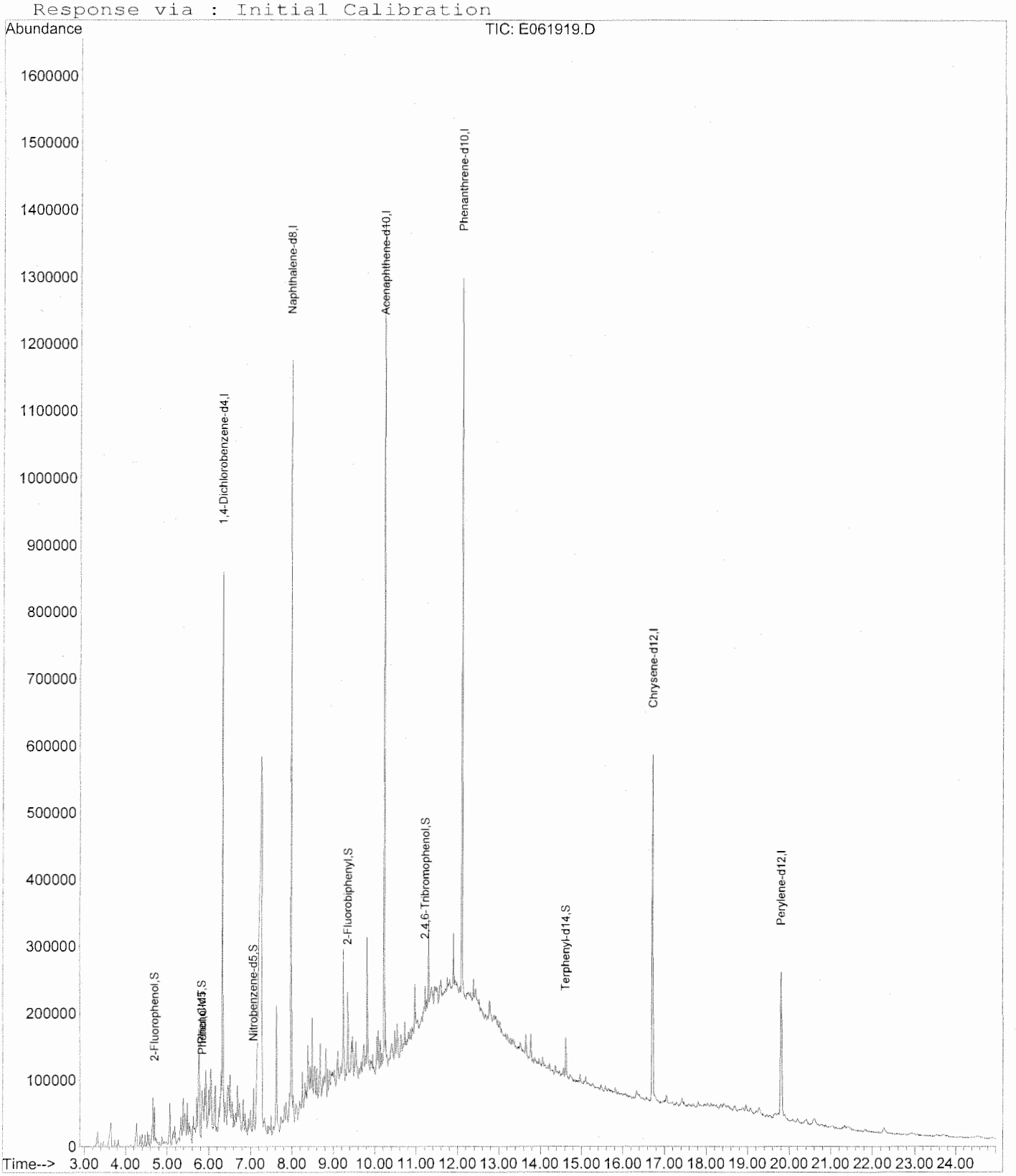
1/2/07

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061919.D Vial: 16
Acq On : 29 Dec 2006 9:31 pm Operator: GJ
Sample : D0602139-006 1/10 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 8:25 2007 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061229\E061919.D Vial: 16
Acq On : 29 Dec 2006 9:31 pm Operator: GJ
Sample : D0602139-006 1/10 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:25:03 2006 Quant Results File: BA061226.RES

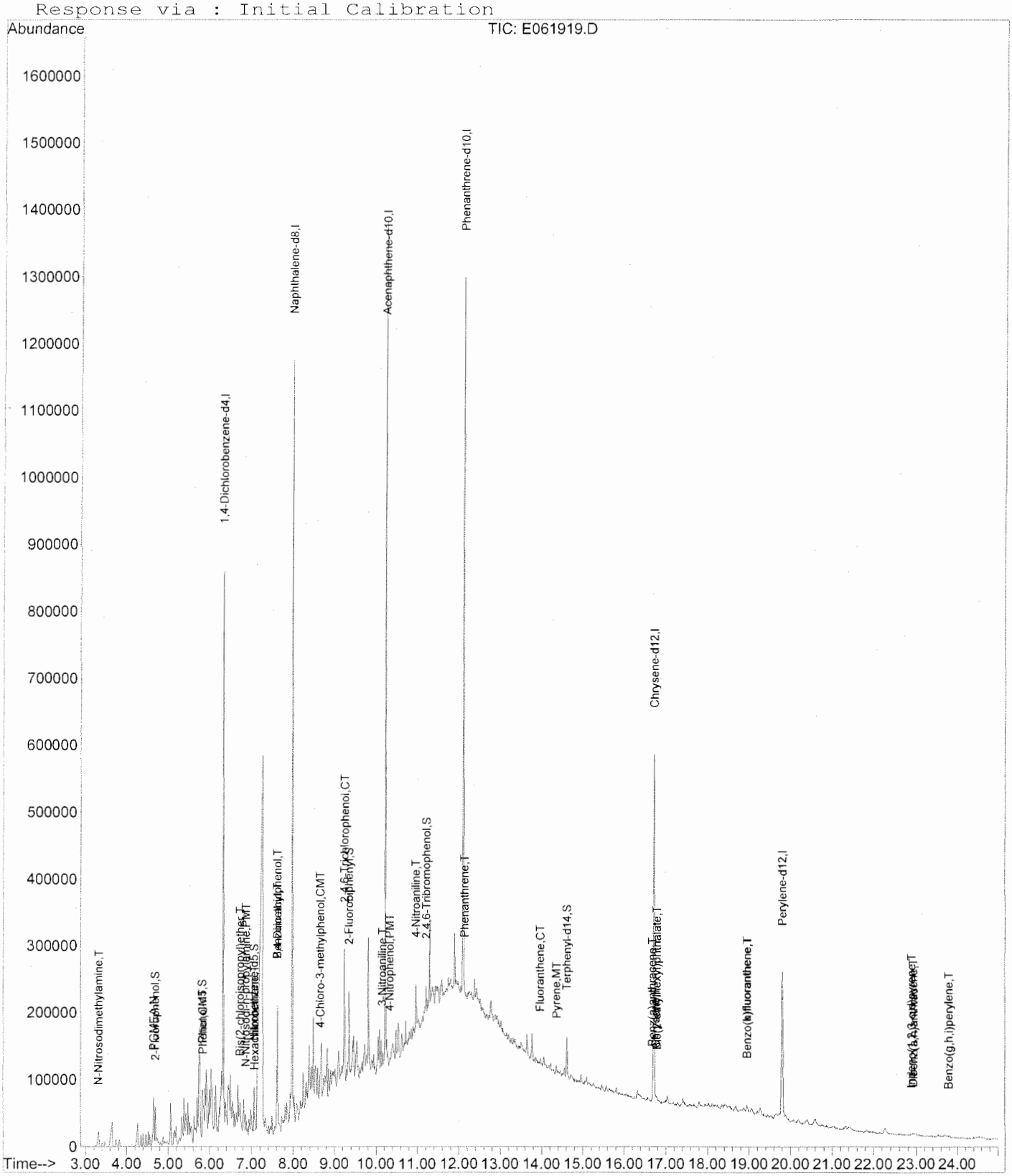
Quant Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration
DataAcq Meth : 8270

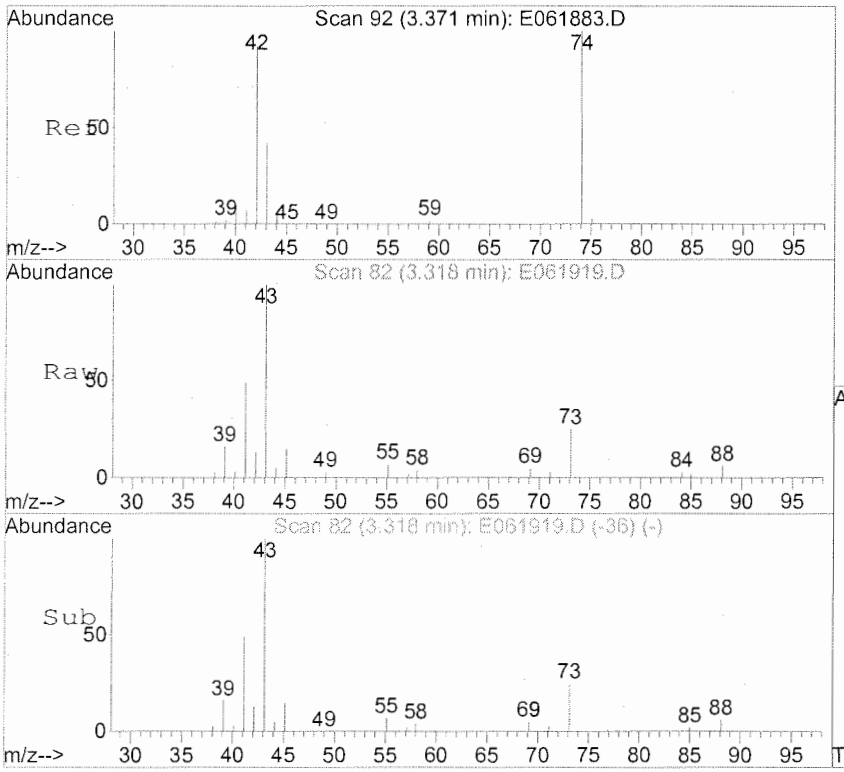
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	152077	40.00	mg/L	-0.03
22) Naphthalene-d8	7.98	136	592260	40.00	mg/L	-0.04
37) Acenaphthene-d10	10.23	164	332758	40.00	mg/L	-0.04
57) Phenanthrene-d10	12.11	188	528373	40.00	mg/L	-0.05
70) Chrysene-d12	16.72	240	303410	40.00	mg/L	-0.07
80) Perylene-d12	19.80	264	159170	40.00	mg/L	-0.11
System Monitoring Compounds						
6) 2-Fluorophenol	4.70	112	19812	4.09	mg/L	-0.03
Spiked Amount 50.000			Recovery =	8.18%		
7) Phenol-d5	5.83	99	26791	4.27	mg/L	-0.04
Spiked Amount 50.000			Recovery =	8.54%		
23) Nitrobenzene-d5	7.07	82	24287	4.85	mg/L	-0.03
Spiked Amount 50.000			Recovery =	9.70%		
41) 2-Fluorobiphenyl	9.35	172	43647	4.16	mg/L	-0.04
Spiked Amount 50.000			Recovery =	8.32%		
61) 2,4,6-Tribromophenol	11.21	330	5071	4.00	mg/L	-0.05
Spiked Amount 50.000			Recovery =	8.00%		
73) Terphenyl-d14	14.62	244	24625	2.90	mg/L	-0.07
Spiked Amount 50.000			Recovery =	5.80%		
Target Compounds						Qvalue
3) N-Nitrosodimethylamine	3.32	42	2218	0.77	mg/L #	1
5) PGMEA	4.66	43	9289	0.89	mg/L #	67
8) Phenol	5.85	94	4724	0.71	mg/L #	69
18) Bis(2-chloroisopropyl)ethe	6.74	45	3463	0.33	mg/L #	56
20) N-Nitrosodi-n-propylamine	6.88	70	2280	0.62	mg/L #	51
21) Hexachloroethane	7.09	117	2782	1.21	mg/L #	6
27) 2,4-Dimethylphenol	7.63	122	32367	6.75	mg/L #	1
28) Benzoic acid	7.63	122	32367	10.26	mg/L #	79
35) 4-Chloro-3-methylphenol	8.65	107	1331	0.32	mg/L #	67
39) 2,4,6-Trichlorophenol	9.25	196	571	0.21	mg/L #	12
47) 3-Nitroaniline	10.16	138	600	2.08	mg/L #	1
50) 4-Nitrophenol	10.34	109	2907	2.47	mg/L #	5
56) 4-Nitroaniline	10.96	138	573	2.45	mg/L #	43
65) Phenanthrene	12.14	178	3016	0.20	mg/L #	85
67) Carbazole	12.41	167	1250	Below Cal	#	52
69) Fluoranthene	13.97	202	5390	0.43	mg/L #	74
72) Pyrene	14.37	202	5430	0.41	mg/L #	79
76) Benz(a)anthracene	16.67	228	2639	0.30	mg/L #	88
77) Chrysene	16.76	228	2094	0.25	mg/L #	70
78) Bis(2-ethylhexyl)phthalate	16.79	149	2067	0.27	mg/L #	82
82) Benzo(b)fluoranthene	18.96	252	1816	0.31	mg/L #	58
83) Benzo(k)fluoranthene	18.96	252	1816	0.32	mg/L #	56
85) Indeno(1,2,3-c,d)pyrene	22.88	276	2209	0.60	mg/L #	75
86) Dibenz(a,h)anthracene	22.93	278	1739	0.55	mg/L #	72
87) Benzo(g,h,i)perylene	23.79	276	1816	0.60	mg/L #	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061229\E061919.D Vial: 16
Acq On : 29 Dec 2006 9:31 pm Operator: GJ
Sample : D0602139-006 1/10 8270W 12/26/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 10:25 2006 Quant Results File: BA061226.RES

Method : C:\MSDCHEM\1\METHODS\BA061226.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Wed Dec 27 09:48:07 2006
Response via : Initial Calibration

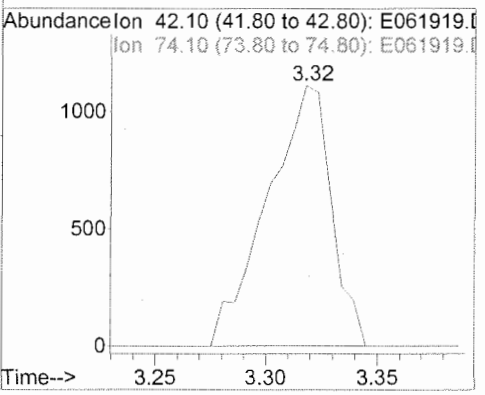


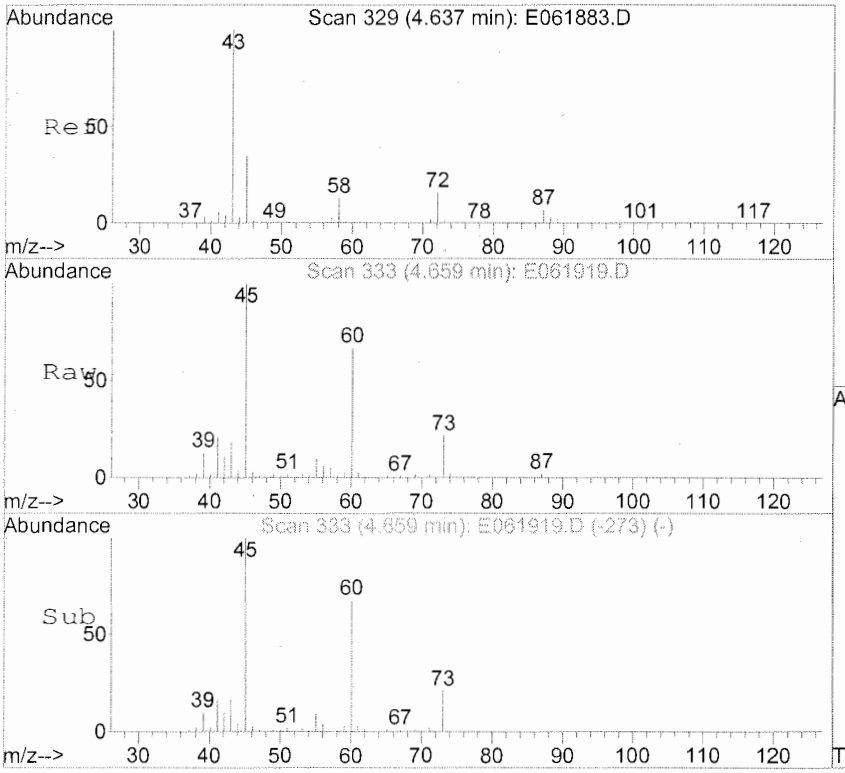


#3
N-Nitrosodimethylamine
Concen: 0.77 mg/L
RT: 3.32 min Scan# 82
Delta R.T. -0.05 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion: 42 Resp: 2218

Ion	Ratio	Lower	Upper
42	100		
74	0.0	99.0	148.4#

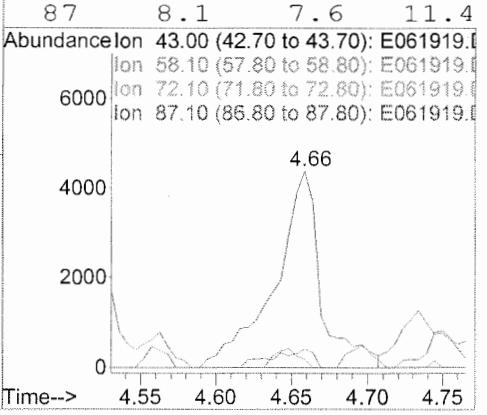


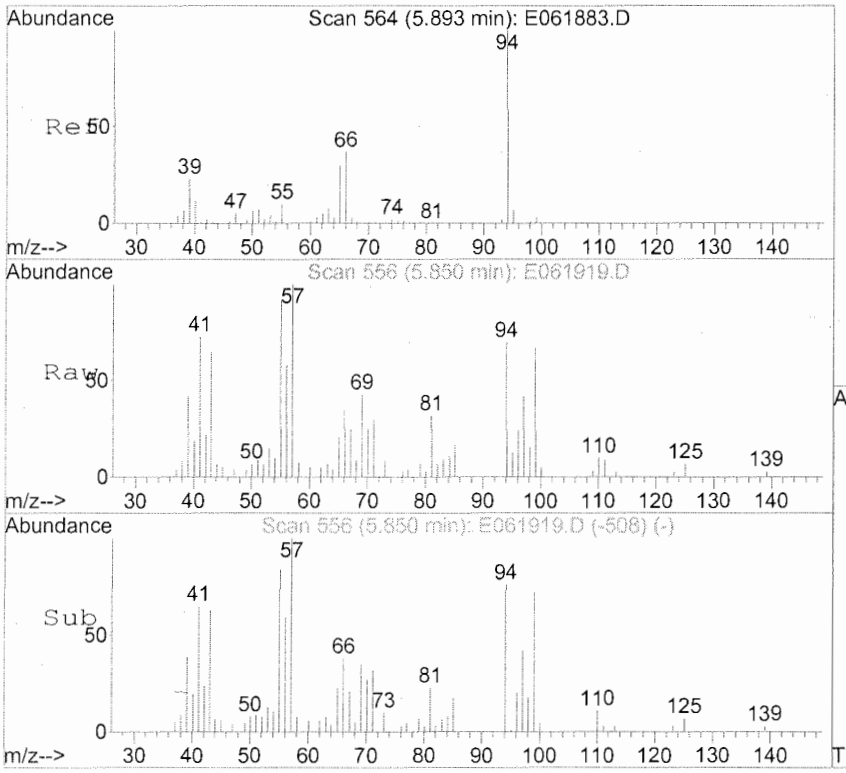


#5
PGMEA
Concen: 0.89 mg/L
RT: 4.66 min Scan# 333
Delta R.T. 0.02 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion: 43 Resp: 9289

Ion	Ratio	Lower	Upper
43	100		
58	5.0	9.7	14.5#
72	0.0	20.4	30.6#
87	8.1	7.6	11.4

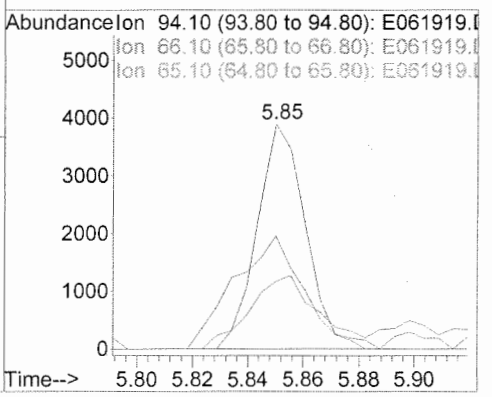


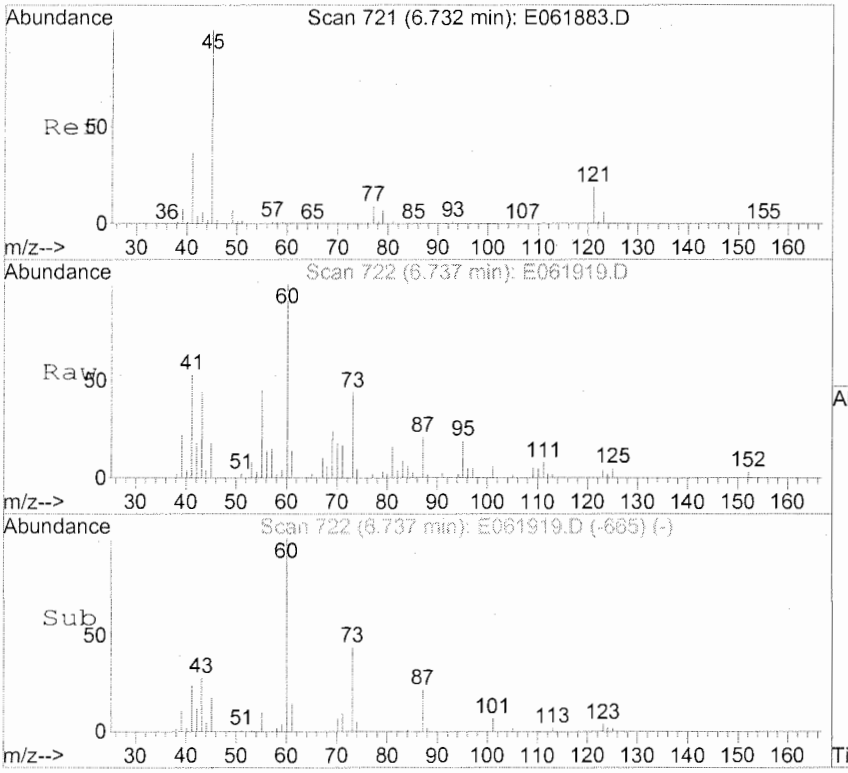


#8
Phenol
Concen: 0.71 mg/L
RT: 5.85 min Scan# 556
Delta R.T. -0.04 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion: 94 Resp: 4724

Ion	Ratio	Lower	Upper
94	100		
66	72.9	38.3	57.5#
65	46.7	27.1	40.7#

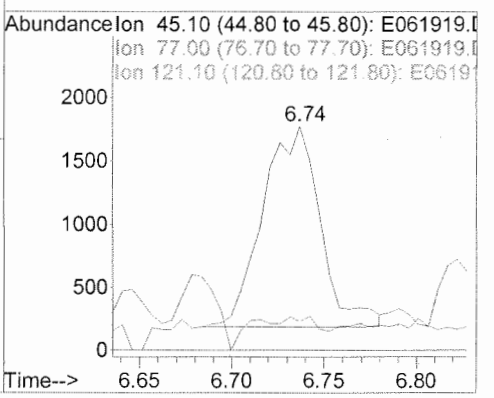


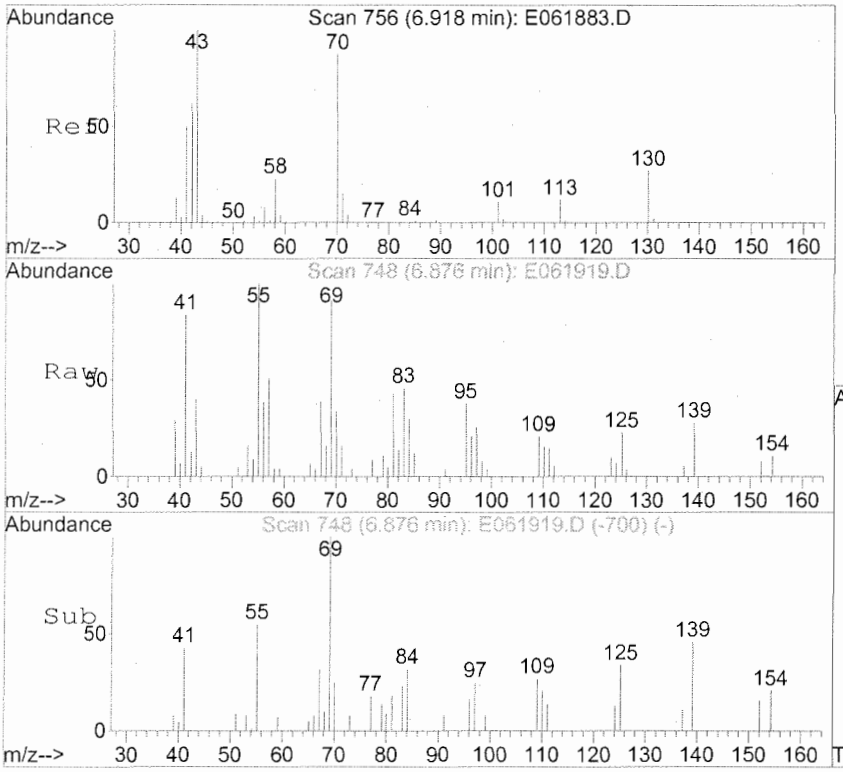


#18
Bis(2-chloroisopropyl)ether
Concen: 0.33 mg/L
RT: 6.74 min Scan# 722
Delta R.T. 0.01 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion: 45 Resp: 3463

Ion	Ratio	Lower	Upper
45	100		
77	7.8	14.2	21.4#
121	0.0	25.0	37.6#

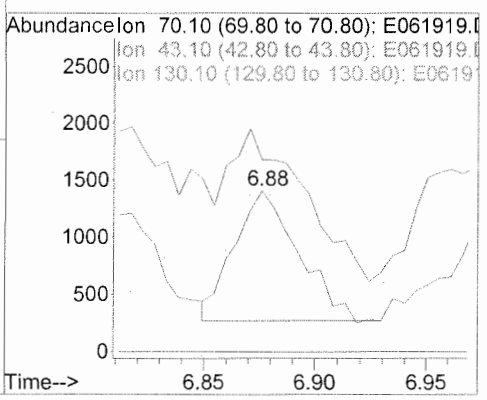


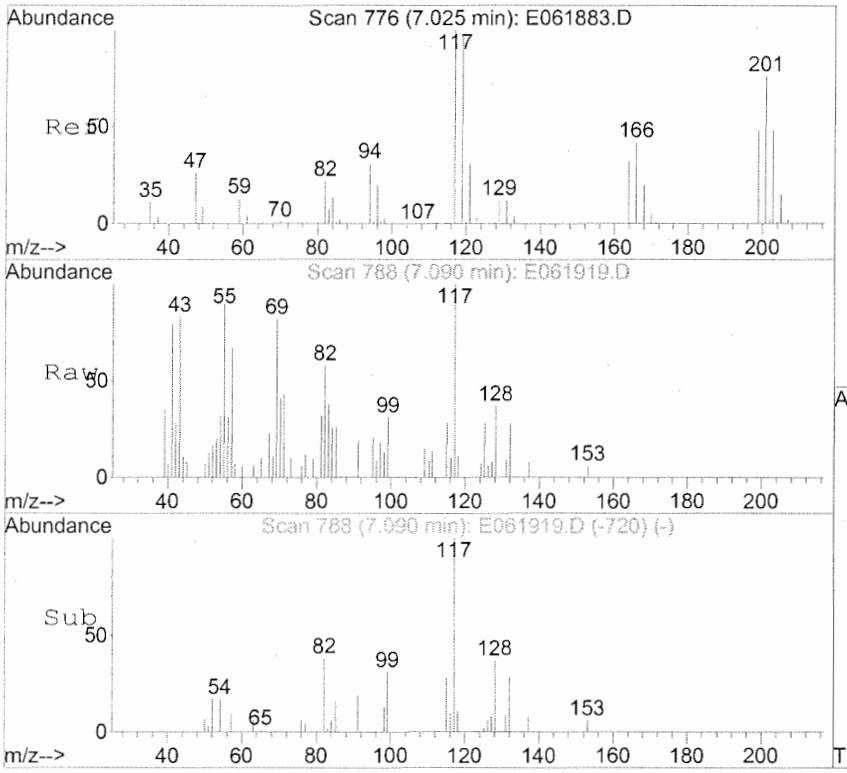


#20
N-Nitrosodi-n-propylamine
Concen: 0.62 mg/L
RT: 6.88 min Scan# 748
Delta R.T. -0.04 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion: 70 Resp: 2280

Ion	Ratio	Lower	Upper
70	100		
43	135.1	71.3	106.9#
130	0.0	19.8	29.6#

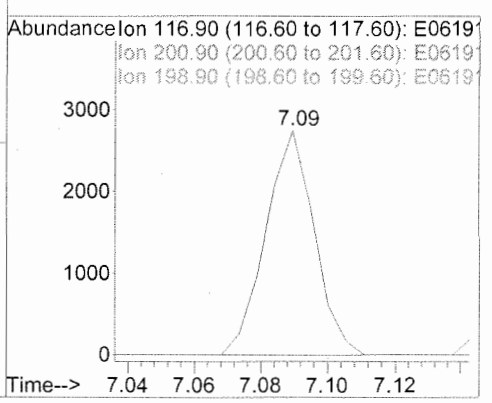


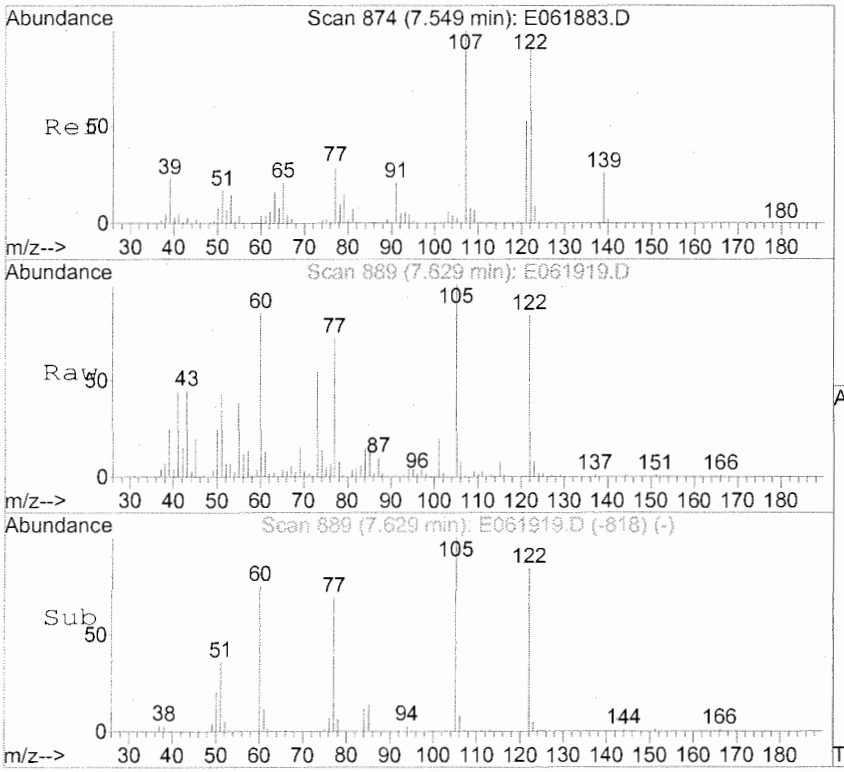


#21
Hexachloroethane
Concen: 1.21 mg/L
RT: 7.09 min Scan# 788
Delta R.T. 0.06 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:117 Resp: 2782

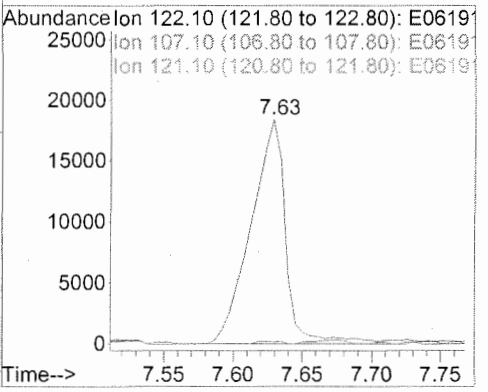
Ion	Ratio	Lower	Upper
117	100		
201	0.0	82.2	123.4#
199	0.0	51.2	76.8#

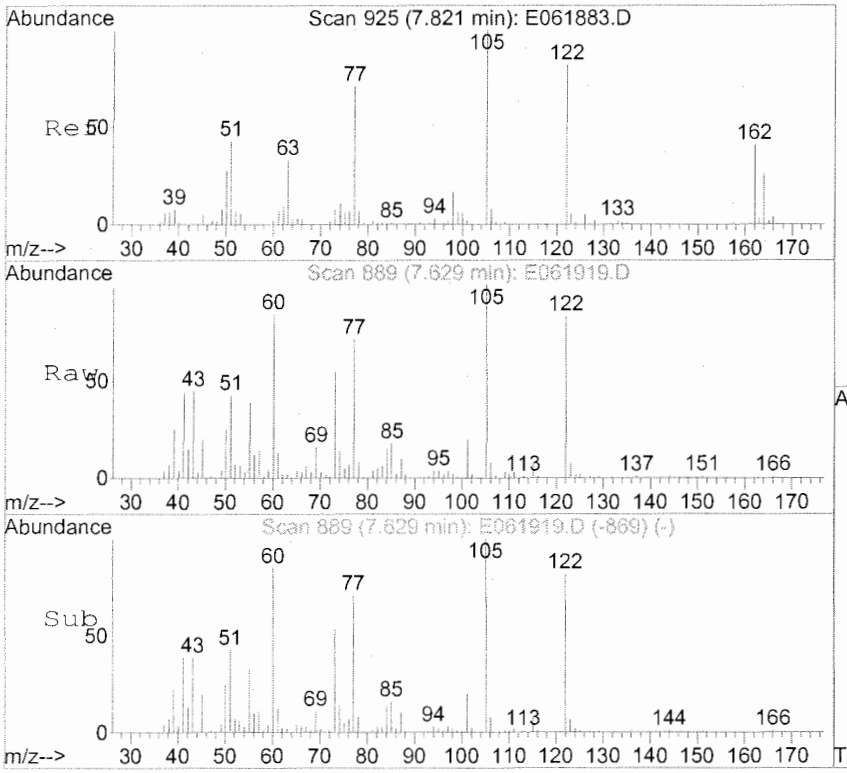




#27
2,4-Dimethylphenol
Concen: 6.75 mg/L
RT: 7.63 min Scan# 889
Delta R.T. 0.08 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

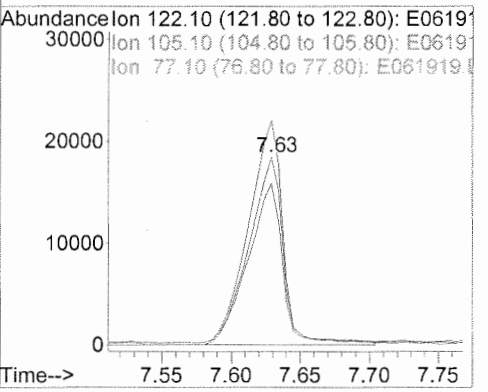
Tgt Ion:122	Resp:	32367	
Ion	Ratio	Lower	Upper
122	100		
107	0.8	104.4	156.6#
121	0.5	46.2	69.2#

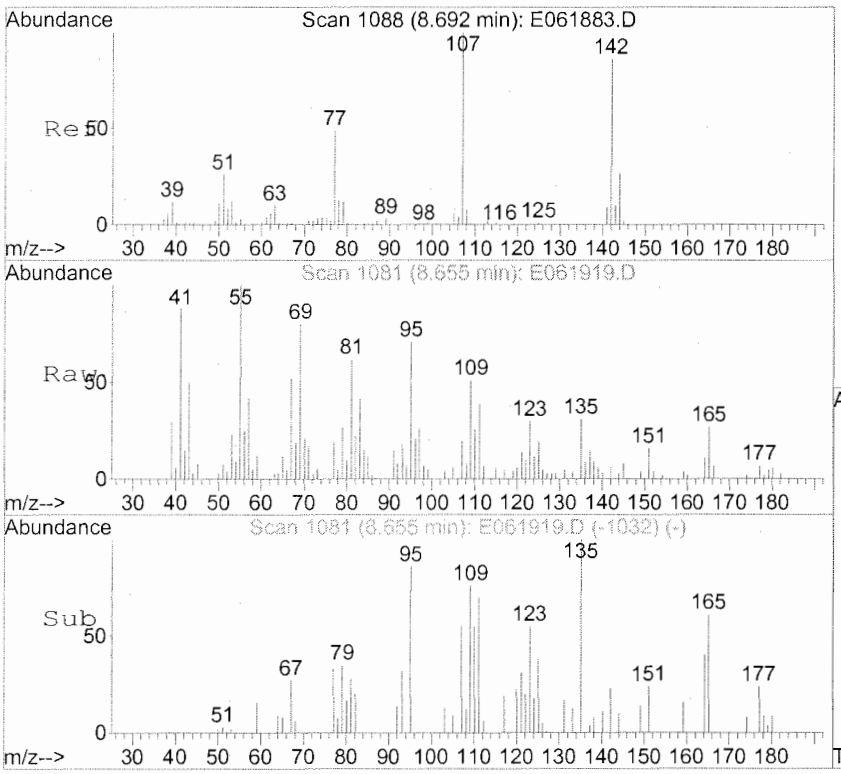




#28
Benzoic acid
Concen: 10.26 mg/L
RT: 7.63 min Scan# 889
Delta R.T. -0.19 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:122	Resp:	32367	
Ion	Ratio	Lower	Upper
122	100		
105	119.6	110.2	165.2
77	82.5	89.8	134.8#

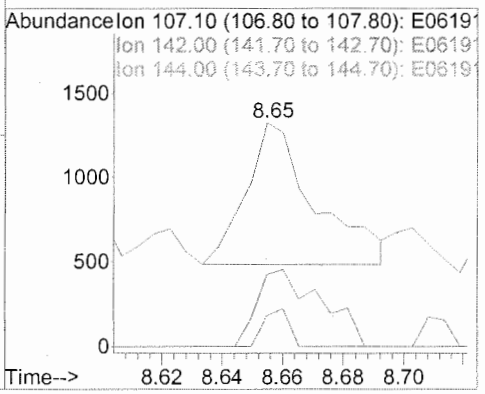


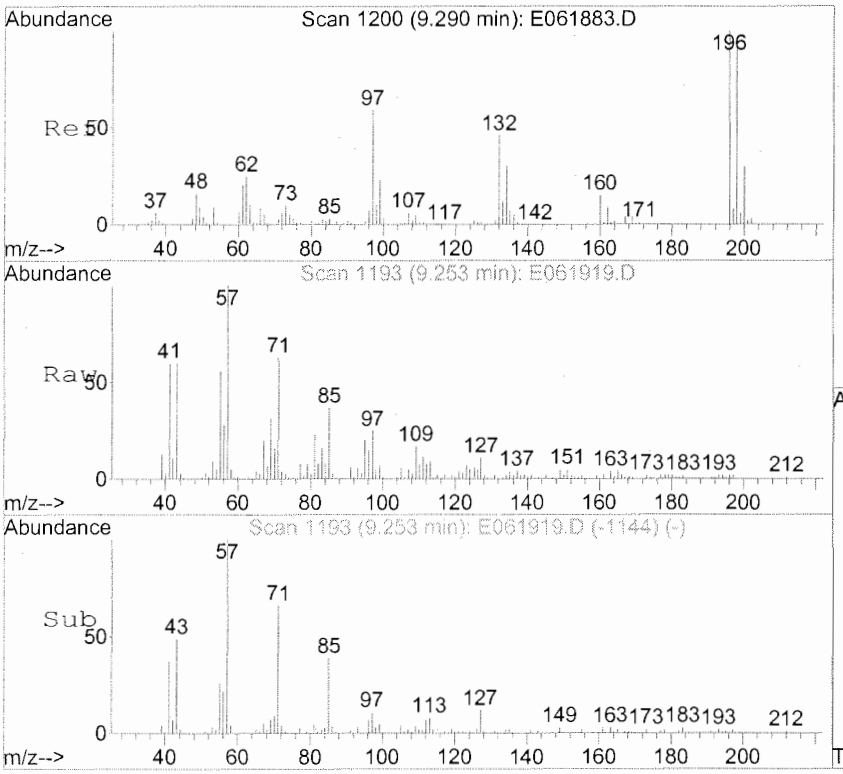


#35
4-Chloro-3-methylphenol
Concen: 0.32 mg/L
RT: 8.65 min Scan# 1081
Delta R.T. -0.04 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:107 Resp: 1331

Ion	Ratio	Lower	Upper
107	100		
142	50.0	63.3	94.9#
144	9.8	20.7	31.1#

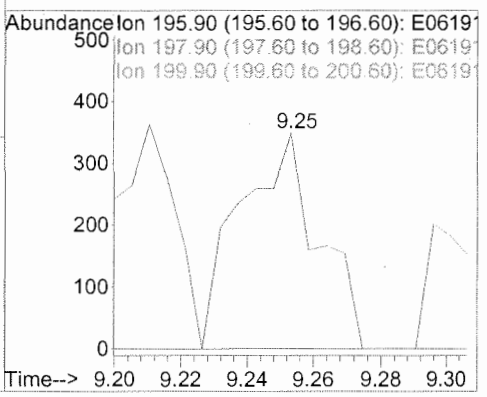


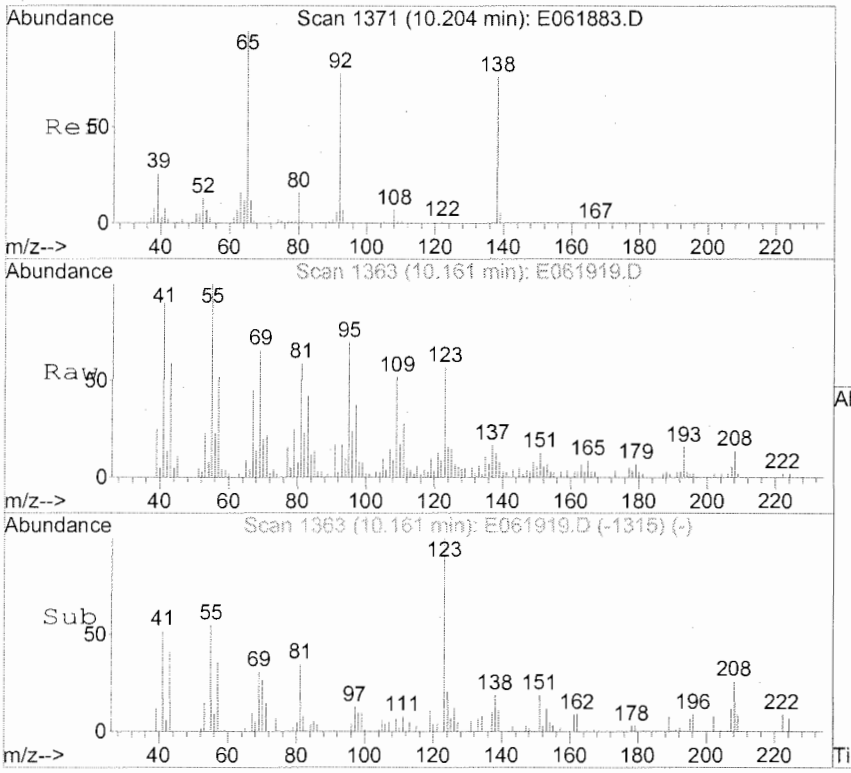


#39
2,4,6-Trichlorophenol
Concen: 0.21 mg/L
RT: 9.25 min Scan# 1193
Delta R.T. -0.04 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:196 Resp: 571

Ion	Ratio	Lower	Upper
196	100		
198	0.0	76.2	114.2#
200	0.0	25.0	37.4#

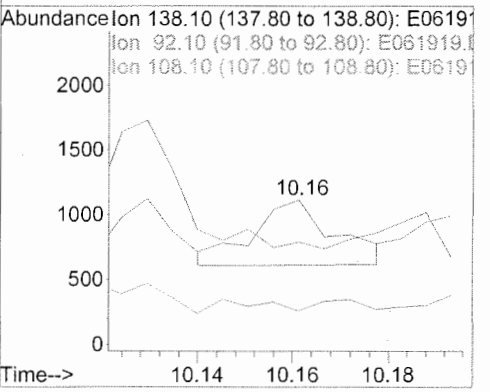


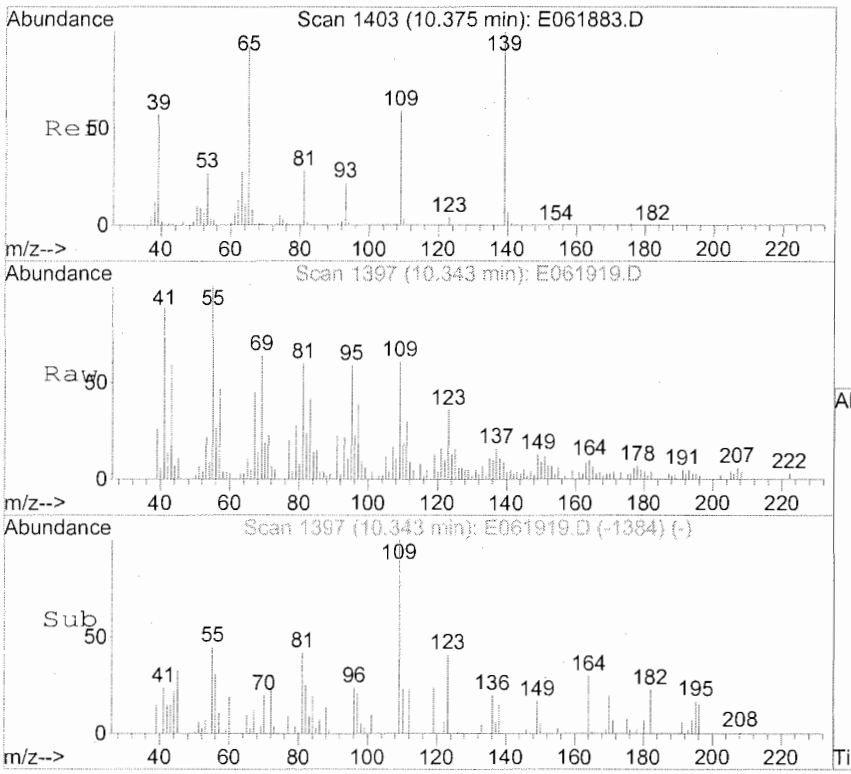


#47
3-Nitroaniline
Concen: 2.08 mg/L
RT: 10.16 min Scan# 1363
Delta R.T. -0.04 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:138 Resp: 600

Ion	Ratio	Lower	Upper
138	100		
92	9.3	95.2	142.8#
108	49.0	8.1	12.1#

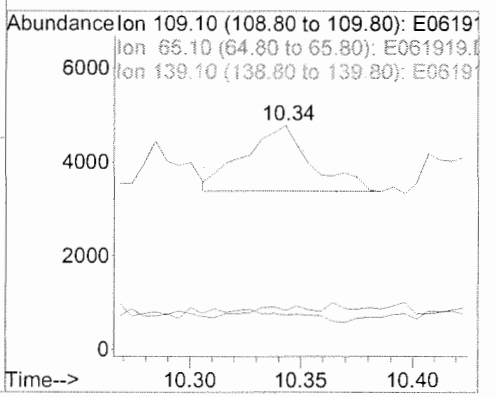


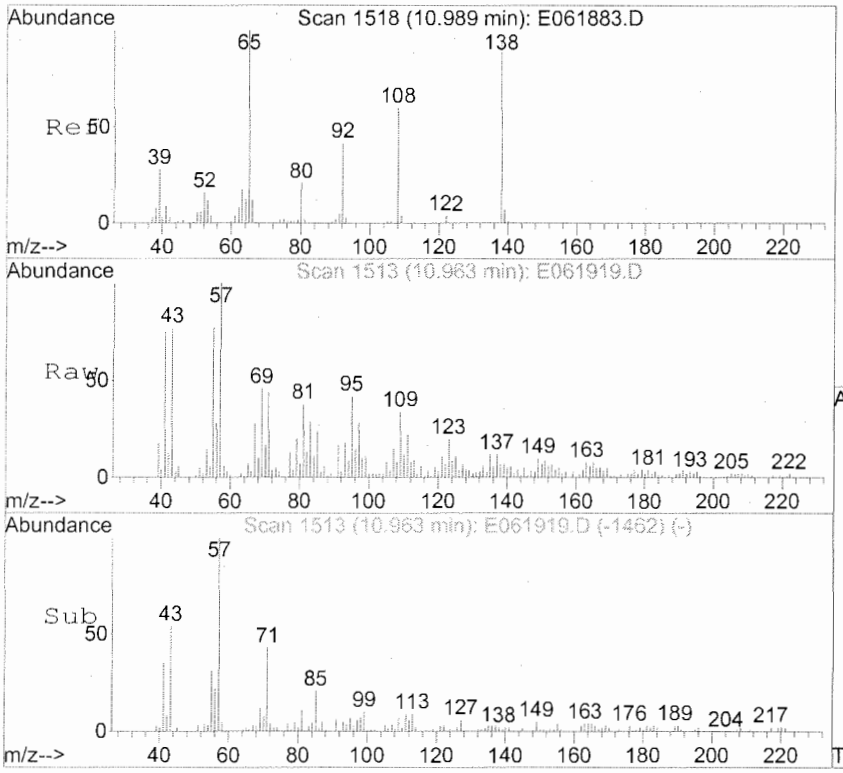


#50
4-Nitrophenol
Concen: 2.47 mg/L
RT: 10.34 min Scan# 1397
Delta R.T. -0.03 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:109 Resp: 2907

Ion	Ratio	Lower	Upper
109	100		
65	9.9	89.3	133.9#
139	7.1	81.4	122.2#

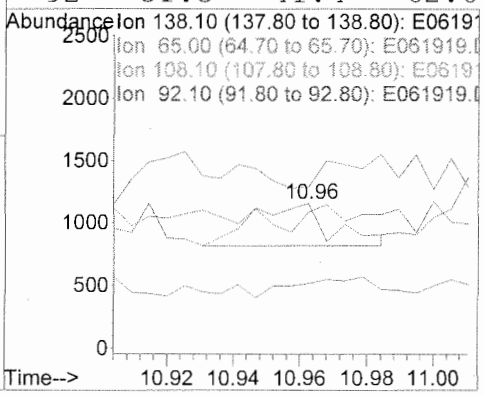


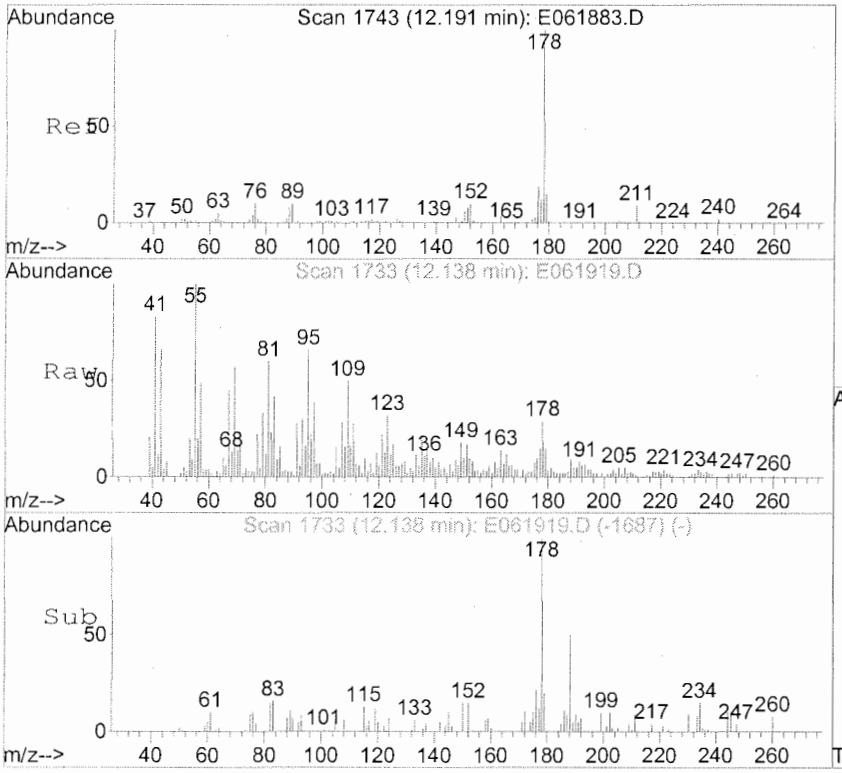


#56
4-Nitroaniline
Concen: 2.45 mg/L
RT: 10.96 min Scan# 1513
Delta R.T. -0.03 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:138 Resp: 573

Ion	Ratio	Lower	Upper
138	100		
65	26.4	86.4	129.6#
108	32.1	75.0	112.6#
92	51.5	41.4	62.0

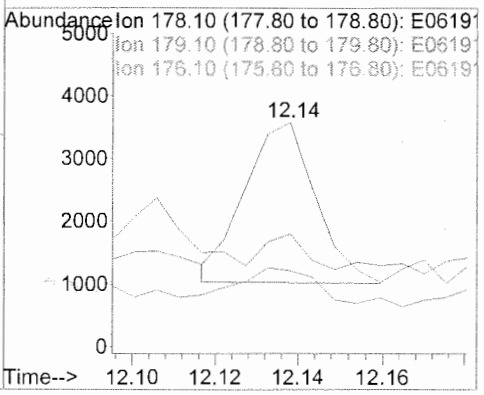


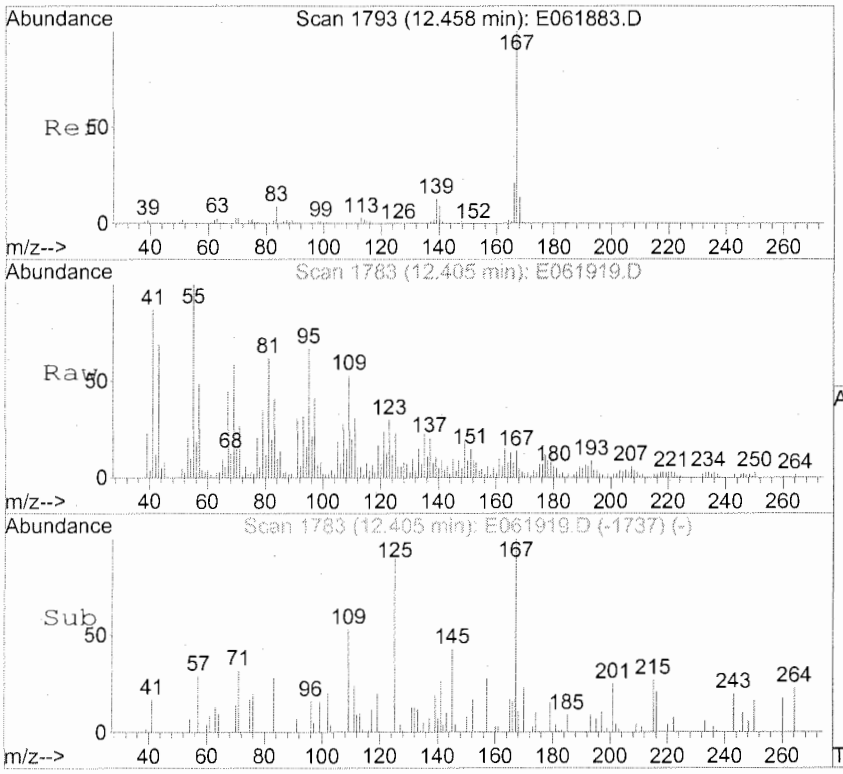


#65
Phenanthrene
Concen: 0.20 mg/L
RT: 12.14 min Scan# 1733
Delta R.T. -0.05 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:178 Resp: 3016

Ion	Ratio	Lower	Upper
178	100		
179	12.2	12.5	18.7#
176	27.8	15.0	22.6#

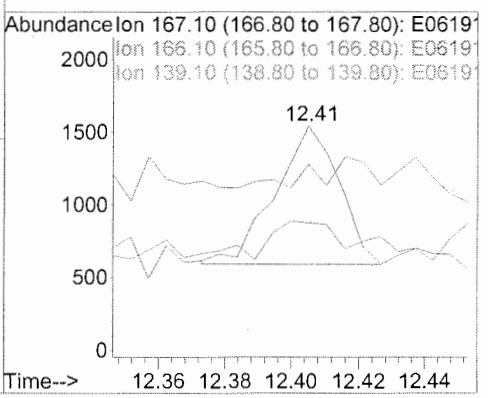


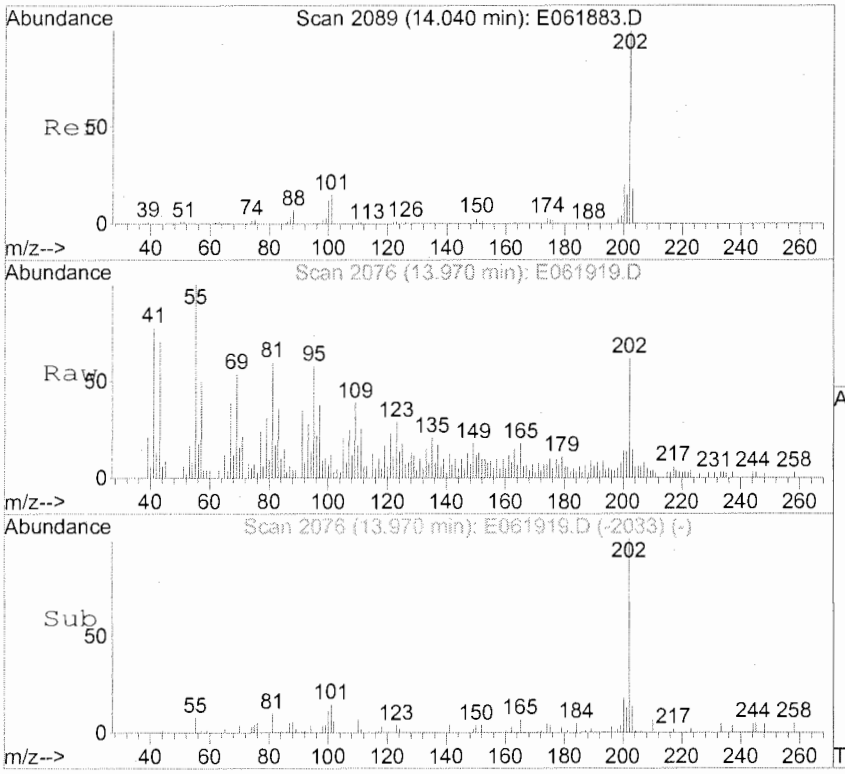


#67
Carbazole
Concen: Below Cal
RT: 12.41 min Scan# 1783
Delta R.T. -0.05 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:167 Resp: 1250

Ion	Ratio	Lower	Upper
167	100		
166	56.9	17.2	25.8#
139	15.3	10.6	16.0

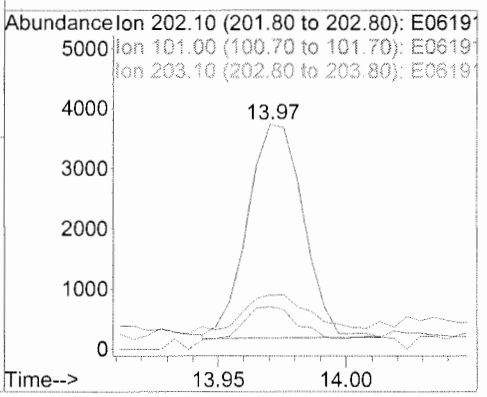


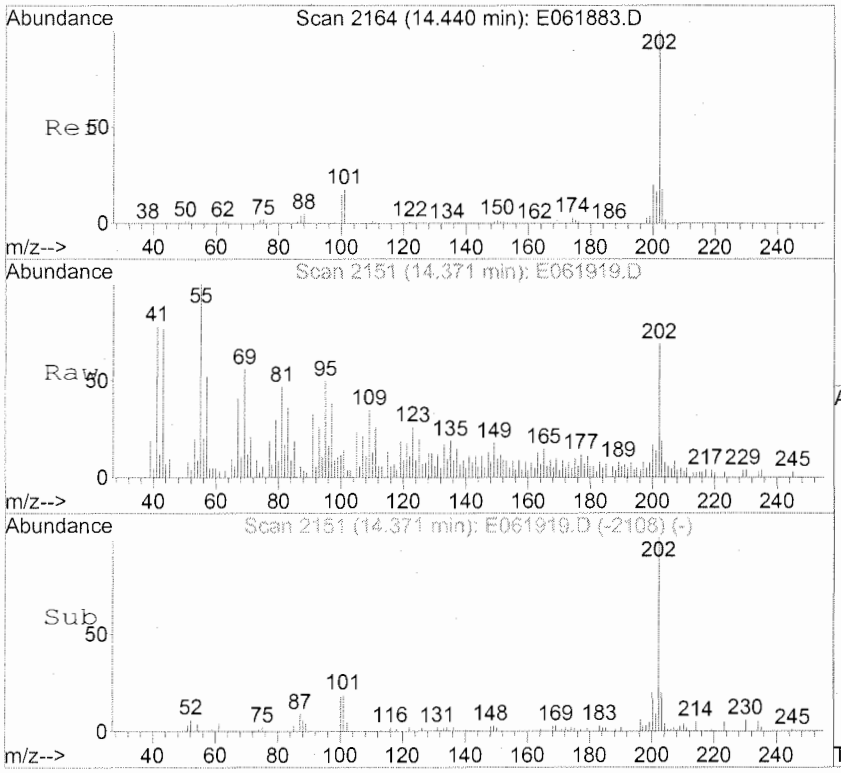


#69
Fluoranthene
Concen: 0.43 mg/L
RT: 13.97 min Scan# 2076
Delta R.T. -0.07 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:202 Resp: 5390

Ion	Ratio	Lower	Upper
202	100		
101	25.9	6.7	10.1#
203	23.2	13.7	20.5#

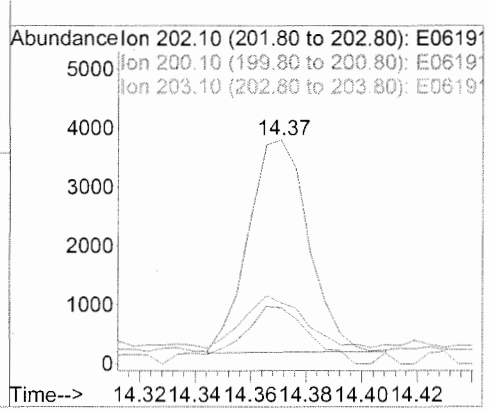


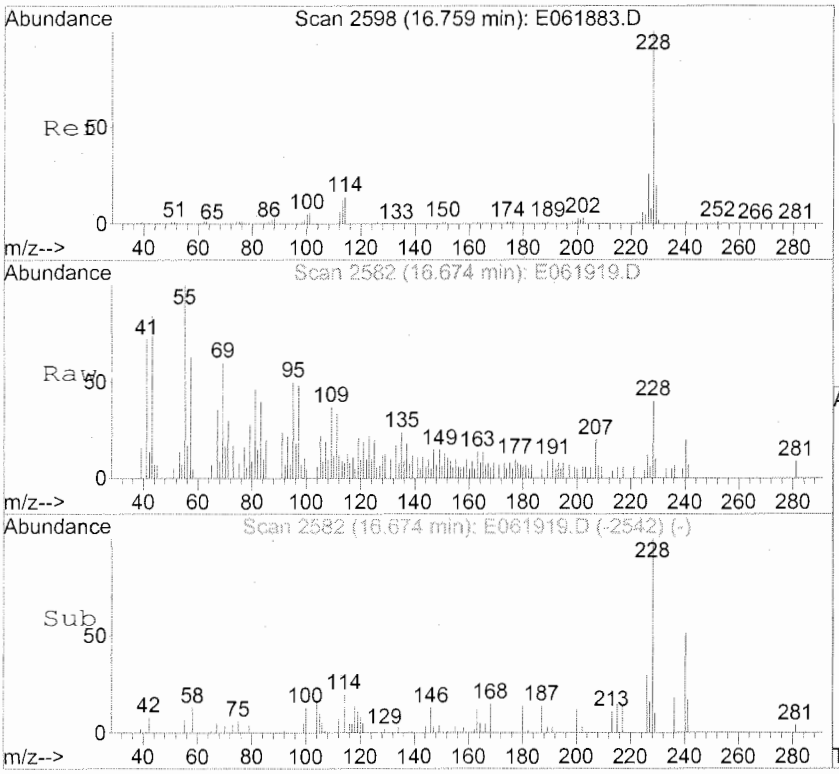


#72
Pyrene
Concen: 0.41 mg/L
RT: 14.37 min Scan# 2151
Delta R.T. -0.07 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:202 Resp: 5430

Ion	Ratio	Lower	Upper
202	100		
200	32.2	16.2	24.2#
203	24.5	14.4	21.6#

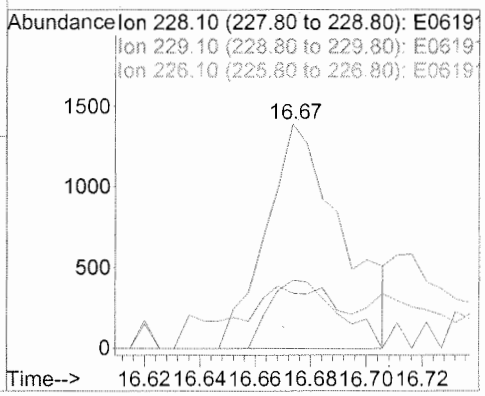


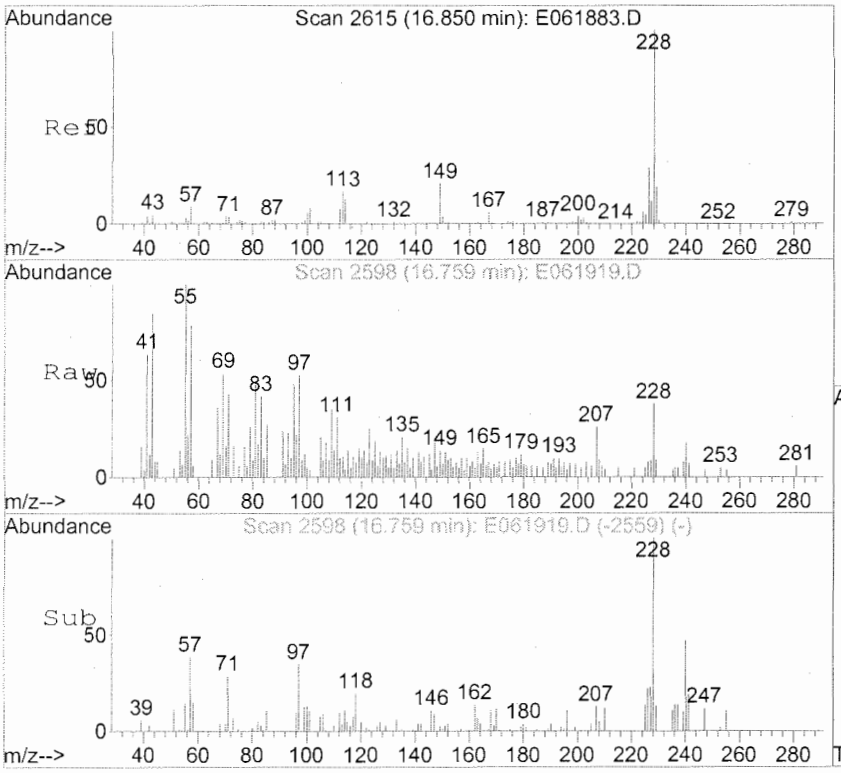


#76
Benz(a)anthracene
Concen: 0.30 mg/L
RT: 16.67 min Scan# 2582
Delta R.T. -0.09 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:228 Resp: 2639

Ion	Ratio	Lower	Upper
228	100		
229	31.0	15.8	23.8#
226	27.3	20.7	31.1

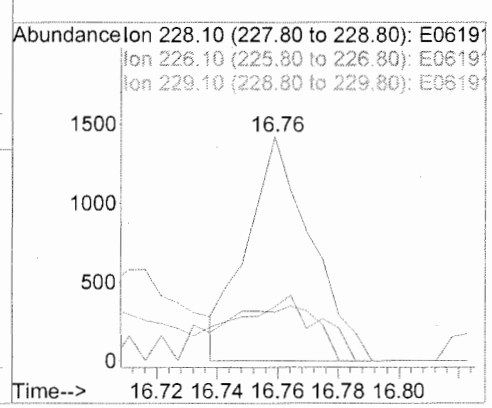


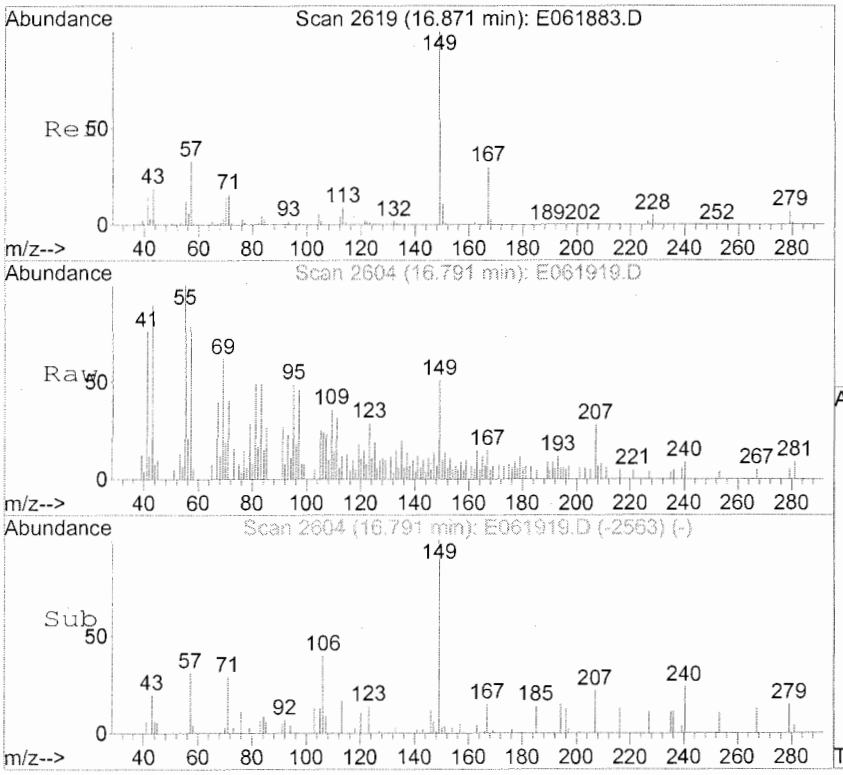


#77
Chrysene
Concen: 0.25 mg/L
RT: 16.76 min Scan# 2598
Delta R.T. -0.09 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:228 Resp: 2094

Ion	Ratio	Lower	Upper
228	100		
226	40.5	22.8	34.2#
229	37.6	15.7	23.5#

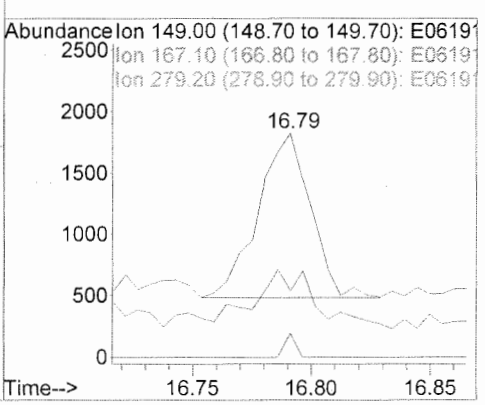


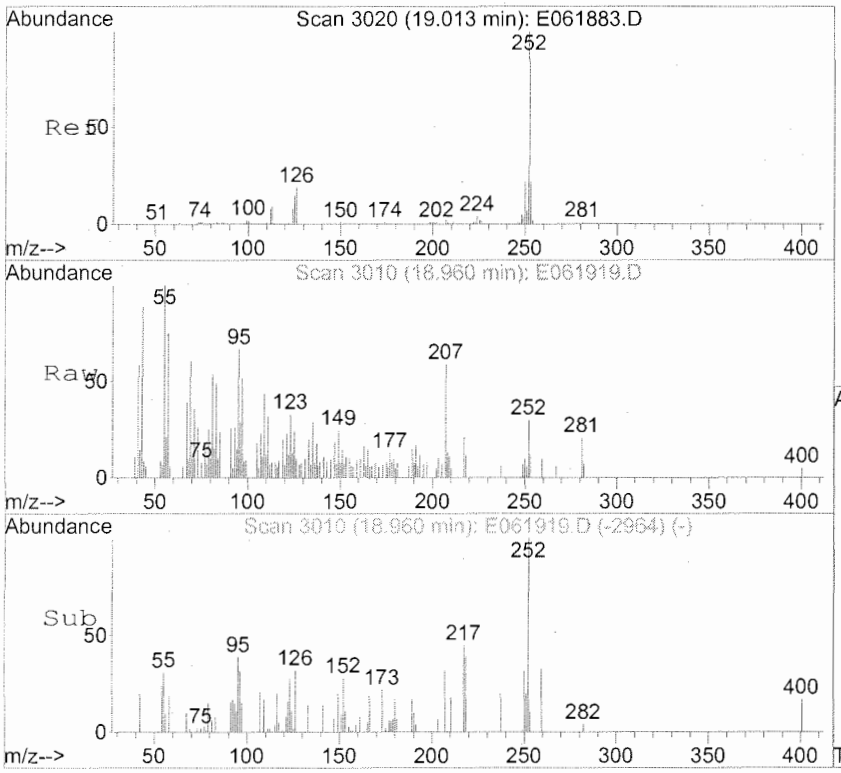


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.27 mg/L
RT: 16.79 min Scan# 2604
Delta R.T. -0.08 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:149 Resp: 2067

Ion	Ratio	Lower	Upper
149	100		
167	41.9	25.0	37.6#
279	3.0	6.2	9.2#

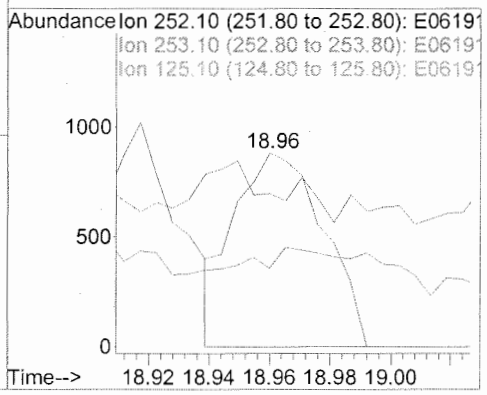


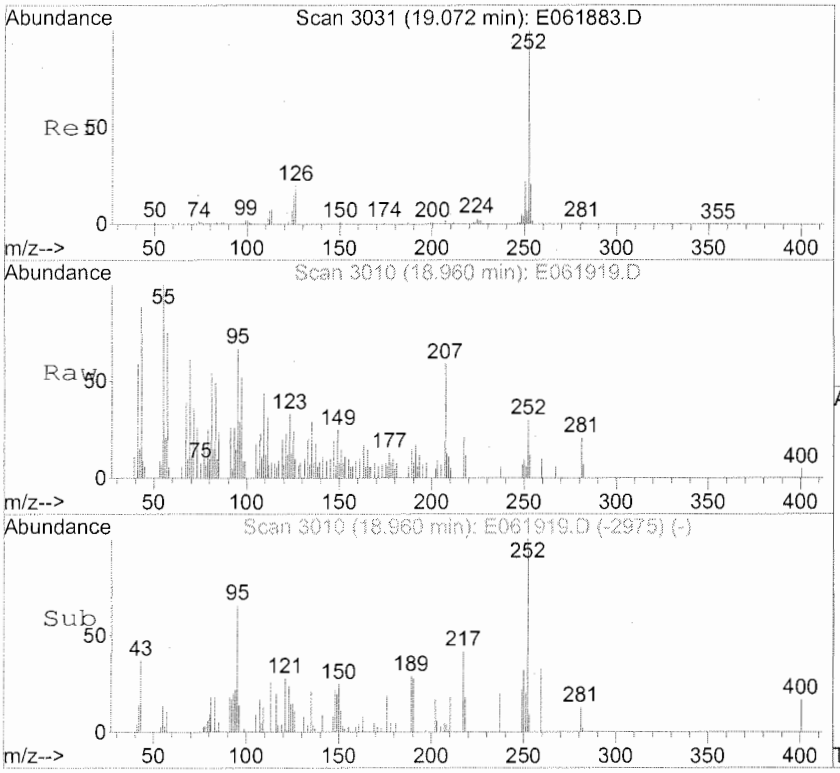


#82
Benzo(b)fluoranthene
Concen: 0.31 mg/L
RT: 18.96 min Scan# 3010
Delta R.T. -0.05 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:252 Resp: 1816

Ion	Ratio	Lower	Upper
252	100		
253	46.9	17.7	26.5#
125	13.5	6.3	9.5#

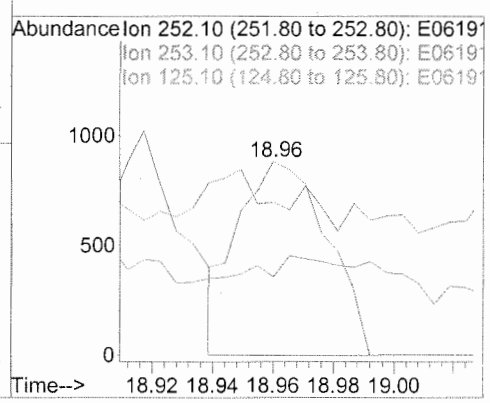


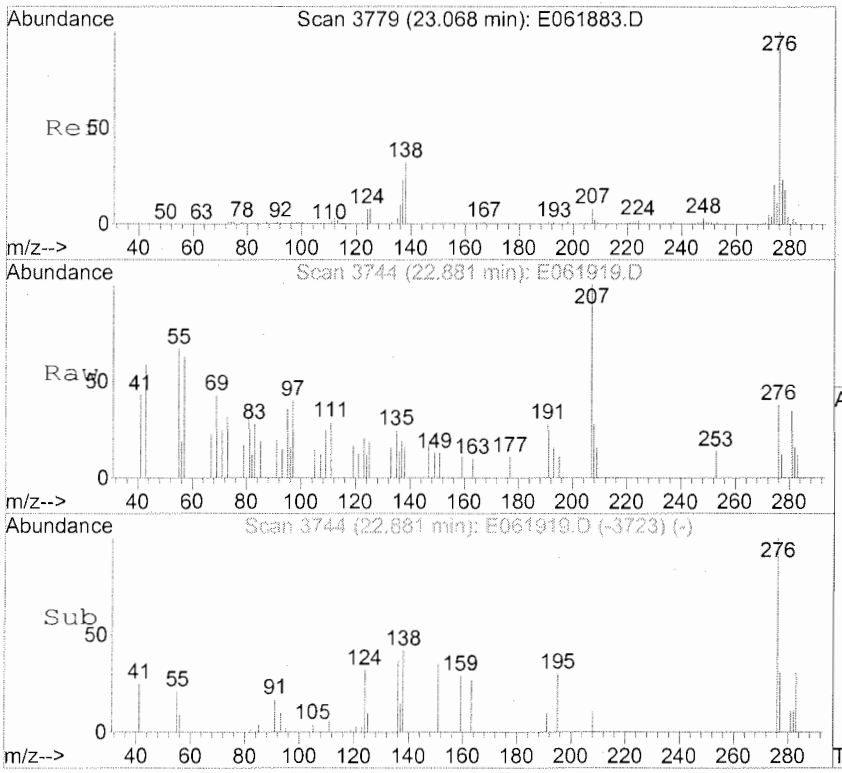


#83
Benzo(k)fluoranthene
Concen: 0.32 mg/L
RT: 18.96 min Scan# 3010
Delta R.T. -0.11 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:252 Resp: 1816

Ion	Ratio	Lower	Upper
252	100		
253	47.1	17.2	25.8#
125	13.1	6.2	9.4#

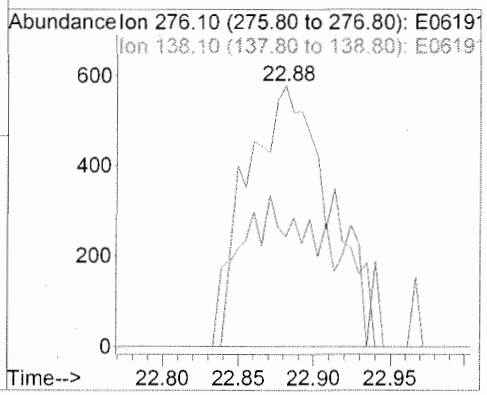


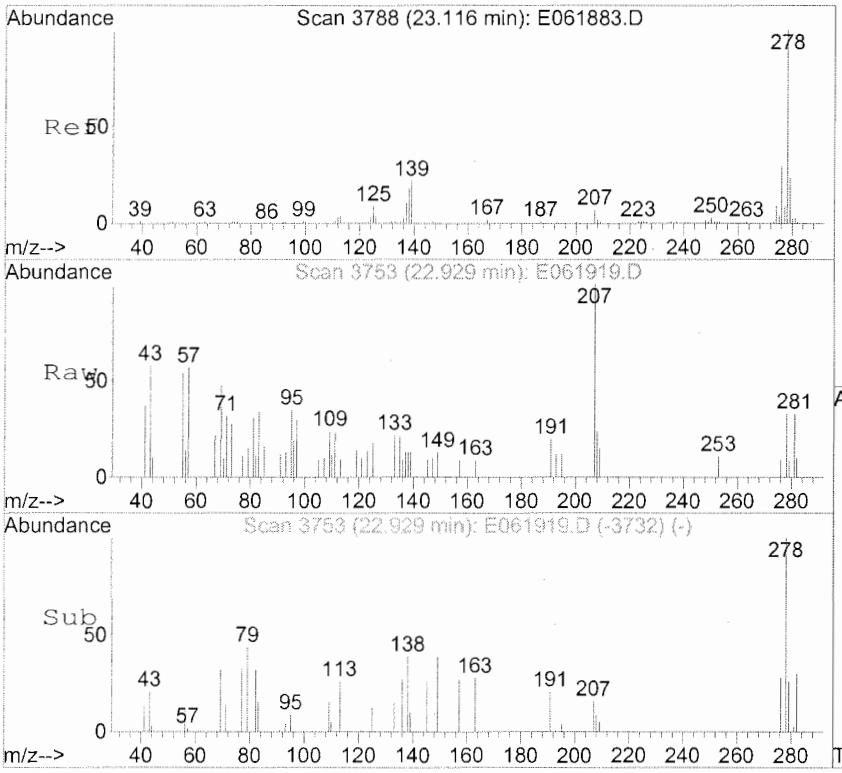


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.60 mg/L
RT: 22.88 min Scan# 3744
Delta R.T. -0.19 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:276 Resp: 2209

Ion	Ratio	Lower	Upper
276	100		
138	28.9	14.2	21.2#

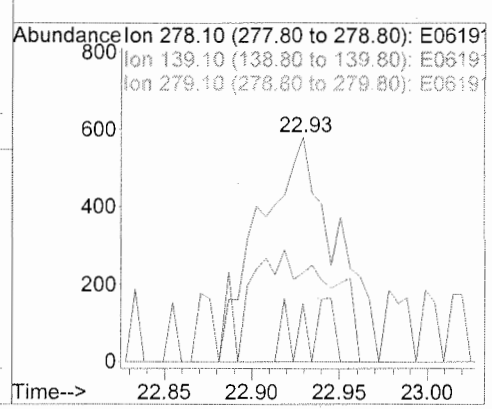


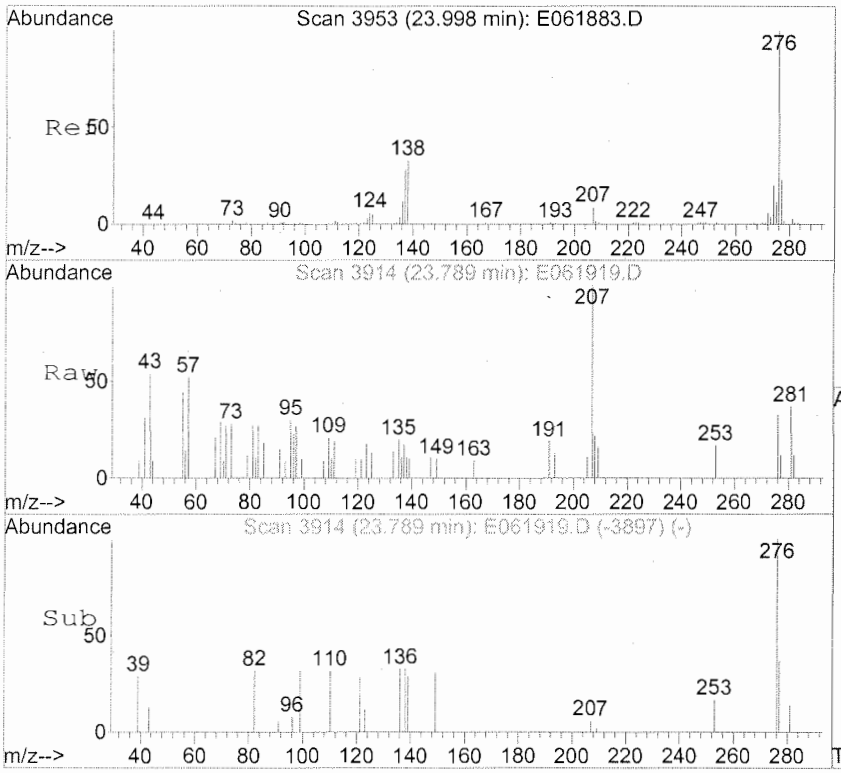


#86
Dibenz(a,h)anthracene
Concen: 0.55 mg/L
RT: 22.93 min Scan# 3753
Delta R.T. -0.19 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:278 Resp: 1739

Ion	Ratio	Lower	Upper
278	100		
139	17.1	12.1	18.1
279	3.0	19.0	28.6#

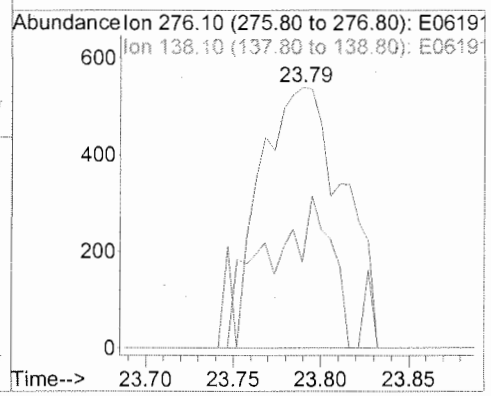




#87
Benzo(g,h,i)perylene
Concen: 0.60 mg/L
RT: 23.79 min Scan# 3914
Delta R.T. -0.21 min
Lab File: E061919.D
Acq: 29 Dec 2006 9:31 pm

Tgt Ion:276 Resp: 1816

Ion	Ratio	Lower	Upper
276	100		
138	24.3	14.3	21.5#



SUPPORT DOCUMENTATION

Liquid-Liquid Extraction, 3520C

Semi-Volatile Water

Date	12/26/06
Time	10:45

42891

Batches: DOL602116/2127/2139/2113

Client(s): CH2M Hill/Environet/Ecosystec/New Cure

Analytical Method(s)

- [x] 8270C
- [ ] MSSIM
- [ ] TCLP, 1311
- [ ] 1,4 DIO

Solvent Lots

DCM: 46210 10/07/ace 12/26/06

Spikes

Surrogate: 14-EXS-430-2

Amt. 0.5 ml Exp: 2/17/07

Spike: 23m~~EXS~~-78-1

Amt. 0.5 ml Exp: 3/5/07

Spiked by: cmc Witness: ac

pH Adjustment

- [x] *Initial:* pH 7 By/date: cmc 12/26
- [x] *Acidic:* pH <2 By/date: cmc 12/26
- [x] *Basic:* pH >12 By/date: cmc 12/27

Cleanups

- [ ] GPC, 3640A Calib: By/date: ID:
- ***Initial KD*** [ ] 1.0ml aliquot saved By/date: vol: ml
- [ ] Mercury, 3660B By/date: Lot:
- [x] No cleanups

Comments:
also spiked L-1, ms, msd with benzoic acid. 23-MS-78-3 use 0.5ml exp: 3/12/07

Test Code(s): 8270/625

Sample ID	Spikes: Surrogate	Spikes: Spike	Amt (1L)	Final KD: H2O bath temp 85 °C, Date & Volume	Relinq. Date
	X	X	By: cmc 12/26	By: cmc 12/29/06	By: cmc 12/29/06
SWB1	✓		1.0	1.0 ml	
SWL1	✓	✓	1.0		
~~SWL2~~					
DOL602116-5.04	✓		1.04		
2127-1.07	✓		1.03		
-2.07	✓		1.05		
-3.07	✓		1.05		
-4.07	✓		1.05		
-5.07	✓		1.05		
-5ms,.08	✓	✓	1.05		
-5msd.22	✓	✓	1.05		
-6.08	✓		1.04		
2139-2.07	✓		1.05		
-3.07	✓		1.05		
-4.07	✓		1.05		
-5.07	✓		1.05		
2113-1.03	✓		100ml		
-2.03	✓		100ml		

cmc 12/26/06

conc/release

- [x] Completed ms/msd
- [ ] Sample limited, no ms/msd, duplicate LCS

014

Peer Review By:

Organic Extractions Dept.
CAS-Redding

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

January 04, 2007 Service Request No: D0602139

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road
Suite 200
San Diego, CA 92127

RE: TDY/SC0307

Dear Brian:

Enclosed are the results of the sample(s) submitted to our laboratory on December 22, 2006. For your reference, these analyses have been assigned our service request number D0602139.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 123. You may also contact me via email at DBurnett@redding.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Douglas Burnett
Project Chemist

TABLE OF CONTENTS

CAS Service Request: D0602139
CAS Tier Level: IV

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Current CAS Redding Accreditation Programs

Federal and National Programs

- U.S Air Force, Air Force Center for Environmental Excellence (AFCEE)
  Approved laboratory for Wastewater and Hazardous Waste
- U.S. Army Corps of Engineers – MRD, HTRW Mandatory Center of Expertise
  Validated for Wastewater and Hazardous Waste
- Department of the Navy, Naval Facilities Engineering Service Center (NFESC)
  Approved laboratory for Wastewater and Hazardous Waste

State and Local Programs

- State of Alaska, Department of Environmental Conservation
  Approved Laboratory for Contaminated Sites
  Lab ID UST-001
- State of Arizona, Department of Health Services, Office of Laboratory Licensure
  Approved Laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID AZ0604
- State of California, Department of Health Services, National Environmental Laboratory Accreditation Program **(NELAP)**
  Approved Laboratory for Drinking Water, Wastewater and Hazardous Waste
  Lab ID 01105CA
  - Los Angeles County Sanitation District
    Approved Laboratory for Wastewater
    Lab ID 10243
- State of California, Department of Health Services, Environmental Laboratory Accreditation Program (ELAP)
  Approved Laboratory for Microbiology of Drinking Water and Wastewater
  Lab ID 2635
- State of Florida, Department of Health, Bureau of Laboratories **(NELAP)**
  Approved Environmental Testing Laboratory for Wastewater and Hazardous Waste
  Lab ID E87203
- State of Kansas, Department of Health and Environment **(NELAP)**
  Approved Laboratory for Hazardous Waste
  Lab ID E-10323
- State of Massachusetts, Department of Environmental Protection
  Approved laboratory for Drinking Water and Wastewater
  Lab ID M-CA025
- State of Oklahoma, Department of Environmental Quality
  Approved Laboratory for General Water Quality/Sludge Testing
  Lab ID 9952
- State of Oregon, Environmental Laboratory Accreditation Program **(ORELAP)**
  Approved Laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID CA200004
- State of Utah, Department of Health, Bureau of Laboratory Improvement **(NELAP)**
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID QUAL1
- State of Washington, Department of Ecology
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID C1234
- State of Wisconsin, Department of Natural Resources
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID 999767340

CAS/Redding: Data Qualifiers

Organic Analyses

A -- This qualifier indicates that a Tentatively Identified Compound (TIC) is a suspected aldol-condensation product.

B -- This qualifier is used when the analyte is found in the associated blank as well as the sample, indicating possible blank contamination. The data user should carefully evaluate the qualified analyte and the reported concentrations.

C -- This qualifier indicates the presence of this compound has been confirmed by the GC/MS analysis.

D -- This qualifier is used for all the analytes identified in an analysis at a secondary dilution factor. "D" qualifiers are used only for the samples reported at more than one dilution factor.

E -- This qualifier indicates that the value reported exceeds the linear calibration range for that analyte. Therefore, the sample should be reanalyzed at the appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

J -- Indicates an estimated value. This qualifier is used when the data indicates the presence of a target analyte below the reporting limit or the presence of a Tentatively Identified Compound (TIC).

N -- This qualifier indicates presumptive evidence of an analyte. This flag is only used for Tentatively Identified Compounds (TIC) where the identification is based on a mass spectral library research. It is applied to all TIC results. For generic characterization of a TIC, such as a chlorinated hydrocarbon, the "N" qualifier is not used.

P -- This qualifier is used for target analytes when there is a greater than 40% difference for detected concentrations between the two columns or detectors. The concentration value is reported on Form I and flagged with a "P".

U -- Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustments when indicated.

DL -- Diluted reanalysis. "DL" indicates that the results were determined in an analysis of a secondary dilution of a sample or extract. A digit to indicate multiple dilutions of the sample or extract may follow the "DL" suffix. The results of more than one diluted reanalysis may be reported.

MS -- Matrix spike (may be followed by a digit to indicate multiple matrix spikes within a sample set).

MSD -- Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spikes within a sample set).

R -- Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. It may be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE -- Re-extraction and reanalysis. The sample was re-extracted and reanalyzed. It may be followed by a digit to indicate multiple re-extracted analysis of the same sample at the same dilution.

Metals and Wet Chemistry Analyses

B/J -- The reported value obtained was less than the MRL/CRDL, but greater than or equal to the MDL/IDL.

U -- The value was less than the MDL/IDL or was not detected.

E -- The reported value is estimate because of interference.

N -- Spiked sample recovery not within control limits.

ND -- Not detected at or above the MRL/CRDL.

***** -- Duplicate analysis not within control limits.

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
D0602139-001	QCEB	12/19/06	10:20
D0602139-002	T-54-GW-11	12/20/06	08:12
D0602139-003	T-54-GW-40	12/20/06	09:21
D0602139-004	T-54-GW-65	12/20/06	10:32
D0602139-005	QCEB	12/20/06	14:10
D0602139-006	T-55-GW-11	12/20/06	13:32
D0602139-007	T-55-GW-40	12/20/06	15:32
D0602139-008	T-55-GW-70	12/20/06	17:08

CASE NARRATIVE

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	D0602139
Project:	TDY	**Date Received:**	12/22/06
Sample Matrix:	Aqueous		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS).This report contains analytical results for samples designated for Tier IV data deliverables.

Sample Receipt

Eight aqueous samples were received for analysis at Columbia Analytical Services on 12/22/06.

No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Diesel Range Organics by EPA Method 8015B

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

Volatile Organic Compounds by EPA Method 8260B

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

Semivolatile Organic Compounds by EPA Method 8270C

The reporting limit is elevated in samples T-54-GW-11 and T-55-GW-11. As the extracts were highly colored and viscous, the sample extracts were diluted prior to instrumental analysis.

The lower control criterion was exceeded for the following surrogate in sample T-54-GW-65 due to matrix interferences: Terphenyl-d14. All other surrogates met criteria and no further action was taken.

The upper control criterion was exceeded for several analytes in Continuing Calibration Verifications (CCVs) of DWG0700100. The field samples analyzed in this sequence did not contain those analytes in question. Since the apparent problem equates to a potential high bias and the spike recoveries for those analytes were within control criteria, the data quality is not affected. No further corrective action was required.

Batch QC is provided for informational purposes only. The Method Blank and Laboratory Control Samples were within control criteria. No anomalies were encountered during this analysis.

Approved by: _____ **Date:** 1-4-7

CHAIN OF CUSTODY DOCUMENTATION

Document Number: 1983

Analysis Request and Chain of Custody Record

Project Name: TDi	Project Number: SC0307	
Samplers Names: C Leder + J Rinehart	Project Contact: B Hitchens	
Laboratory Name: Columbia Analytical	Lab Contact: Doug Burnett	
Lab Address: 5090 Caterpillar Rd Redding, Ca,	Lab Phone: 530-244-5227	
	Carrier/Waybill No.	

Page 1 of 1

[redacted]

	Sample Name	Date	Time	Sample Type	Required Analyses: VOCs by 8260	Metals	SVOCs by 8270	TPH 8015B	Comments	Lab Use Only: Condition of Bottles
	Bottle Type and Volume/Preservative				VOA HCL		1L Amber none	VOA HCL		
	Number of Containers									
1	QCEB	12/19/06	10:20	GW	3					
2	T-54-GW-11	12/20/06	8:12	GW	3		1	3		
3	T-54-GW-40	12/20/06	9:21	GW	3		1	3		
4	T-54-GW-65	12/20/06	10:32	GW	3		1	3		
5	QCEB	12/20/06	14:10	GW	3					
6	T-55-GW-11	12/20/06	13:32	GW	3		1	3		
7	T-55-GW-40	12/20/06	15:32	GW	3			3		
8	T-55-GW-70	12/20/06	17:08	GW	3			3		

Special Instructions: Analysis is indicated on the Label of Bottles.

Turn-around Time: ☐ Normal ☒ Rush: 1 week

1. Relinquished by (Signiture/Affiliation): J Rinehart	Date: 12/21/06 Time: 15:24	1. Received by (Signiture/Affiliation): Tammy Reed	Date: 12/22/06 Time: 1500
2. Relinquished by (Signiture/Affiliation):	Date: Time:	2. Received by (Signiture/Affiliation):	Date: Time:
3. Relinquished by (Signiture/Affiliation):	Date: Time:	3. Received by (Signiture/Affiliation):	Date: Time:

GeoSyntec Consultants 11305 Rancho Bernardo Road, Suite 101, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Columbia Analytical Services inc.
An Employee-Owned Company

5090 Caterpillar Road
Redding, CA 96003
Phone: (530) 244-5262

[redacted]

COOLER RECEIPT FORM

Project/Client: GeoSyntec Batch No.:

1. Cooler(s)/Sample(s) received on: 10/8/2010 Shipped via: UPS
   Shipping Bill # (s): 1252×72× # of Coolers/Packages 1
2. Radiological Screening by: TR — (Acceptable) Rejected
3. Custody seals on outside of cooler: YES (NO) N/A
   If yes, where? Front_____ Rear_____ Lt Side_____ Rt Side_____
   Seals intact: YES (NO)

COOLER/SAMPLE PROCESSING

4. Sample Processing/Tagging by: Tammy Reid
5. Cooler(s)/Sample(s) Temp's: 3°C _____ _____ _____ _____
   (or)
   Temp. Blank (if included): (_____) _____ _____ _____ _____
6. Type of packing material (circle): (Ice) Blue Ice (Bubble Wrap) (Bubble Bags) (Zip Locks) Webbing
   Other:_____
7. Custody papers properly filled out (ink, signed, dated, released, etc.)? (YES) NO
8. Containers arrived in good condition (not broken, leaking, etc.)? (YES) NO
9. Samples received with adequate holding time remaining to conduct analysis? (YES) NO
10. Container labels complete (i.e. analysis, preservation, date/time, etc.)? (YES) NO
11. Container labels and tags agree with custody papers? (YES) NO
12. Correct types of containers used for the tests indicated? (YES) NO
    a.) Adequate sample received? If not, note on Exception Report. (YES) NO
13. Containers supplied by: (CAS) Other
14. Preserved containers received with the appropriate preservative? (YES) NO N/A
    pH: VOAs @ <2 per DOCS (or) See pH log.
15. VOA vials free of air bubbles? (YES) NO N/A
16. Trip Blank preparation date: _____ CAS Other (N/A)
17. Volatile Soil samples: Encores or Plugs in Vials
    Freezer or GC/MS Date:_____ Time:_____ (N/A)

See Exception Report for discrepancies.

Rev. 8/18/2004/ds

Columbia Analytical Services INC.
An Employee - Owned Company

5090 Caterpillar Road
Redding, CA 96003
530-244-5227
FAX 530-244-4109

BATCH:

CLIENT: GEO SYN TECH

PROJECT: [redacted]

SAMPLE RECEIPT EXCEPTION REPORT

Issue Type Legend	
	1) Holding Time
	2) Temperature
	3) COC/Label
	4) Container
	5) Other

SMO Technician / Date: JOEL JOHNSON

Project Chemist / Date: (W) 1-4-7

Client Contact(s):

Item #	Issue Type	DESCRIPTION
1	4	ALL VOA's HAVE PEA SIZE OR LARGER HEADSPACE.
		Informed Doug Burnett
		all vials for 2,3,4,7+8

Corrective Actions Taken

1	All air pockets acceptable for analysis. (W)

Fuel Characterization

Client: GeoSyntec Consultants
Project: TDY/SC0307
Service Request: D0602139

Cover Page - Organic Analysis Data Package
Hydrocarbon Scan / Fuel Characterization

Sample Name	Lab Code	Date Collected	Date Received
T-54-GW-11	D0602139-002	12/20/2006	12/22/2006
T-54-GW-40	D0602139-003	12/20/2006	12/22/2006
T-54-GW-65	D0602139-004	12/20/2006	12/22/2006
T-55-GW-11	D0602139-006	12/20/2006	12/22/2006
T-55-GW-40	D0602139-007	12/20/2006	12/22/2006
T-55-GW-70	D0602139-008	12/20/2006	12/22/2006
T-54-GW-11MS	DWG0700105-1	12/20/2006	12/22/2006
T-54-GW-11DMS	DWG0700105-2	12/20/2006	12/22/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang
Name: WIDA ANG
Date: 1/3/07
Title: Organic Manager

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Collected:**	12/20/2006
Sample Matrix:	Water	**Date Received:**	12/22/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-54-GW-11	**Units:**	mg/L
Lab Code:	D0602139-002	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	
Diesel Range Organics (C13-C22)	**1.8**		1.0	0.44	1	01/02/07	01/02/07	DWG0700105	
Heavy Range Organics (C24-C36)	**1.7**		1.0	0.50	1	01/02/07	01/02/07	DWG0700105	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	130	50-140	01/02/07	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Collected:**	12/20/2006
Sample Matrix:	Water	**Date Received:**	12/22/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-54-GW-40	**Units:**	mg/L
Lab Code:	D0602139-003	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	01/02/07	01/02/07	DWG0700105	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	126	50-140	01/02/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name: T-54-GW-65
Lab Code: D0602139-004

Units: mg/L
Basis: NA

Extraction Method: EPA 3510M
Analysis Method: 8015B

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	01/02/07	01/02/07	DWG0700105	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	127	50-140	01/02/07	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Collected:**	12/20/2006
Sample Matrix:	Water	**Date Received:**	12/22/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-55-GW-11	**Units:**	mg/L
Lab Code:	D0602139-006	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	**0.60**	J	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	
Diesel Range Organics (C13-C22)	**4.7**		1.0	0.44	1	01/02/07	01/02/07	DWG0700105	
Heavy Range Organics (C24-C36)	**3.6**		1.0	0.50	1	01/02/07	01/02/07	DWG0700105	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	128	50-140	01/02/07	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Collected:**	12/20/2006
Sample Matrix:	Water	**Date Received:**	12/22/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-55-GW-40	**Units:**	mg/L
Lab Code:	D0602139-007	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	**0.68**	J	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	
Diesel Range Organics (C13-C22)	**0.83**	J	1.0	0.44	1	01/02/07	01/02/07	DWG0700105	
Heavy Range Organics (C24-C36)	**1.2**		1.0	0.50	1	01/02/07	01/02/07	DWG0700105	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	129	50-140	01/02/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name: T-55-GW-70
Lab Code: D0602139-008

Units: mg/L
Basis: NA

Extraction Method: EPA 3510M
Analysis Method: 8015B

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	01/02/07	01/02/07	DWG0700105	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	128	50-140	01/02/07	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Collected: NA
Date Received: NA

Hydrocarbon Scan / Fuel Characterization

Sample Name: Method Blank
Lab Code: DWG0700105-4

Extraction Method: EPA 3510M
Analysis Method: 8015B

Units: mg/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	01/02/07	01/02/07	DWG0700105	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	01/02/07	01/02/07	DWG0700105	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	126	50-140	01/02/07	Acceptable

Comments:

QC Summary

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3510M
Analysis Method: 8015B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
T-54-GW-11	D0602139-002	130
T-54-GW-40	D0602139-003	126
T-54-GW-65	D0602139-004	127
T-55-GW-11	D0602139-006	128
T-55-GW-40	D0602139-007	129
T-55-GW-70	D0602139-008	128
Method Blank	DWG0700105-4	126
T-54-GW-11MS	DWG0700105-1	133
T-54-GW-11DMS	DWG0700105-2	127
Lab Control Sample	DWG0700105-3	128

Surrogate Recovery Control Limits (%)

Sur1 = Octacosane	50-140

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Extracted:**	01/02/2007
Sample Matrix:	Water	**Date Analyzed:**	01/02/2007

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-54-GW-11	**Units:**	mg/L
Lab Code:	D0602139-002	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B	**Extraction Lot:**	DWG0700105

Analyte Name	Sample Result	T-54-GW-11MS DWG0700105-1 Matrix Spike			T-54-GW-11DMS DWG0700105-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Diesel Range Organics (C13-C22)	1.8	25.1	30.0	78	25.7	30.0	80	50-130	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Extracted:**	01/02/2007
Sample Matrix:	Water	**Date Analyzed:**	01/02/2007

Lab Control Spike Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method:	EPA 3510M	**Units:**	mg/L
Analysis Method:	8015B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	DWG0700105

	Lab Control Sample DWG0700105-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Diesel Range Organics (C13-C22)	23.2	30.0	77	50-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Extracted: 01/02/2007
Date Analyzed: 01/02/2007
Time Analyzed: 15:48

Method Blank Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: Method Blank
Lab Code: DWG0700105-4

Extraction Method: EPA 3510M
Analysis Method: 8015B

File ID: Q:\TARGET\CHEM\GCO.I\010207\0102004.
Instrument ID: GCO

Level: Low
Extraction Lot: DWG0700105

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	DWG0700105-3	Q:\TARGET\CHEM\GCO.I\010207\0102005.D	01/02/07	16:28
T-54-GW-11	D0602139-002	Q:\TARGET\CHEM\GCO.I\010207\0102006.D	01/02/07	17:09
T-54-GW-11MS	DWG0700105-1	Q:\TARGET\CHEM\GCO.I\010207\0102007.D	01/02/07	17:50
T-54-GW-11DMS	DWG0700105-2	Q:\TARGET\CHEM\GCO.I\010207\0102008.D	01/02/07	18:30
T-54-GW-40	D0602139-003	Q:\TARGET\CHEM\GCO.I\010207\0102009.D	01/02/07	19:10
T-54-GW-65	D0602139-004	Q:\TARGET\CHEM\GCO.I\010207\0102010.D	01/02/07	19:51
T-55-GW-11	D0602139-006	Q:\TARGET\CHEM\GCO.I\010207\0102011.D	01/02/07	20:31
T-55-GW-40	D0602139-007	Q:\TARGET\CHEM\GCO.I\010207\0102012.D	01/02/07	21:12
T-55-GW-70	D0602139-008	Q:\TARGET\CHEM\GCO.I\010207\0102013.D	01/02/07	21:52

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY/SC0307	**Date Extracted:**	01/02/2007
Sample Matrix:	Water	**Date Analyzed:**	01/02/2007
		Time Analyzed:	16:28

Lab Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	Lab Control Sample	**File ID:**	Q:\TARGET\CHEM\GCO.I\010207\0102005.
Lab Code:	DWG0700105-3	**Instrument ID:**	GCO
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B	**Extraction Lot:**	DWG0700105

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	DWG0700105-4	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	01/02/07	15:48
T-54-GW-11	D0602139-002	Q:\TARGET\CHEM\GCO.I\010207\0102006.D	01/02/07	17:09
T-54-GW-11MS	DWG0700105-1	Q:\TARGET\CHEM\GCO.I\010207\0102007.D	01/02/07	17:50
T-54-GW-11DMS	DWG0700105-2	Q:\TARGET\CHEM\GCO.I\010207\0102008.D	01/02/07	18:30
T-54-GW-40	D0602139-003	Q:\TARGET\CHEM\GCO.I\010207\0102009.D	01/02/07	19:10
T-54-GW-65	D0602139-004	Q:\TARGET\CHEM\GCO.I\010207\0102010.D	01/02/07	19:51
T-55-GW-11	D0602139-006	Q:\TARGET\CHEM\GCO.I\010207\0102011.D	01/02/07	20:31
T-55-GW-40	D0602139-007	Q:\TARGET\CHEM\GCO.I\010207\0102012.D	01/02/07	21:12
T-55-GW-70	D0602139-008	Q:\TARGET\CHEM\GCO.I\010207\0102013.D	01/02/07	21:52

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/01/2006

Initial Calibration Summary
Hydrocarbon Scan / Fuel Characterization

ICAL ID: CAL1243
Instrument ID: GCO

Column: RTX-5

Level ID	File ID	Level ID	File ID
A	C:\HPCHEM\2\DATA\120106P\1201004.D	E	C:\HPCHEM\2\DATA\120106P\1201008.D
B	C:\HPCHEM\2\DATA\120106P\1201005.D	F	C:\HPCHEM\2\DATA\120106P\1201009.D
C	C:\HPCHEM\2\DATA\120106P\1201006.D	G	C:\HPCHEM\2\DATA\120106P\1201010.D
D	C:\HPCHEM\2\DATA\120106P\1201007.D	H	C:\HPCHEM\2\DATA\120106P\1201011.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Gasoline Range Organics (C6-C12)	A	5.0	1.80E+5	B	10	1.74E+5	C	50	1.74E+5	D	100	1.67E+5	E	500	1.81E+5
	F	1000	1.56E+5	G	2500	1.49E+5	H	5000	1.45E+5						
Diesel Range Organics (C13-C22)	A	5.0	1.61E+5	B	10	1.62E+5	C	50	1.71E+5	D	100	1.62E+5	E	500	1.79E+5
	F	1000	1.44E+5	G	2500	1.38E+5	H	5000	1.31E+5						
Heavy Range Organics (C24-C36)	A	5.0	1.82E+5	B	10	1.49E+5	C	50	1.46E+5	D	100	1.46E+5	E	500	1.52E+5
	F	1000	1.23E+5	G	2500	1.16E+5	H	5000	1.11E+5						
Octacosane				B	5.0	1.36E+5	C	25	1.44E+5	D	50	1.36E+5	E	75	1.62E+5
	F	130	1.33E+5	G	150	1.32E+5	H	300	1.35E+5						

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/01/2006

Initial Calibration Summary
Hydrocarbon Scan / Fuel Characterization

ICAL ID: CAL1243
Instrument ID: GCO

Column: RTX-5

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Gasoline Range Organics (C6-C12)	TRG	AverageRF	% RSD	8.6		≤ 20
Diesel Range Organics (C13-C22)	MS	AverageRF	% RSD	10.6		≤ 20
Heavy Range Organics (C24-C36)	TRG	AverageRF	% RSD	16.5		≤ 20
Octacosane	SURR	AverageRF	% RSD	7.7		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
ICAL Date: 12/01/2006
Date Analyzed: 12/01/2006

Second Source Calibration Verification
Hydrocarbon Scan / Fuel Characterization

ICAL Type: External Standard
Analysis Method: 8015B

ICAL ID: CAL1243
Units: mg/L

File ID: C:\HPCHEM\2\DATA\120106P\1201015.D

Column ID: RTX-5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	1000	890	166000	148000	-11	NA	± 30 %	AverageRF
Diesel Range Organics (C13-C22)	1000	870	156000	136000	-13	NA	± 30 %	AverageRF
Heavy Range Organics (C24-C36)	1000	830	141000	116000	-17	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
Date Analyzed: 01/02/2007

Continuing Calibration Verification Summary
Hydrocarbon Scan / Fuel Characterization

ICAL Type: External Standard
Analysis Method: 8015B

ICAL Date: 12/01/2006
ICAL ID: CAL1243
Analysis Lot: DWG0700106
Units: mg/L

File ID: C:\HPCHEM\2\DATA\010207\0102003.D

Column ID: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	500	570	166000	190000	14	NA	± 15 %	AverageRF
Diesel Range Organics (C13-C22)	500	560	156000	174000	11	NA	± 15 %	AverageRF
Heavy Range Organics (C24-C36)	500	550	141000	154000	9	NA	± 15 %	AverageRF
Octacosane	75	97	140000	180000	29	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139
Date Analyzed: 01/02/2007

Continuing Calibration Verification Summary
Hydrocarbon Scan / Fuel Characterization

ICAL Type: External Standard
Analysis Method: 8015B

ICAL Date: 12/01/2006
ICAL ID: CAL1243
Analysis Lot: DWG0700106
Units: mg/L

File ID: C:\HPCHEM\2\DATA\010207\0102014.D

Column ID: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	1000	1100	166000	179000	8	NA	± 15 %	AverageRF
Diesel Range Organics (C13-C22)	1000	1100	156000	167000	7	NA	± 15 %	AverageRF
Heavy Range Organics (C24-C36)	1000	1000	141000	144000	2	NA	± 15 %	AverageRF
Octacosane	130	150	140000	169000	21	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0602139

Analysis Run Log
Hydrocarbon Scan / Fuel Characterization

Analysis Method: 8015B

Analysis Lot: DWG0700106
Instrument ID: GCO
Column: RTX-5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0102003.D	Continuing Calibration Verification	DWG0700106-1	1/2/2007	12:50		1/2/2007	13:22
\0102004.D	Method Blank	DWG0700105-4	1/2/2007	15:48		1/2/2007	16:20
\0102005.D	Lab Control Sample	DWG0700105-3	1/2/2007	16:28		1/2/2007	17:00
\0102006.D	T-54-GW-11	D0602139-002	1/2/2007	17:09		1/2/2007	17:41
\0102007.D	T-54-GW-11MS	DWG0700105-1	1/2/2007	17:50		1/2/2007	18:22
\0102008.D	T-54-GW-11DMS	DWG0700105-2	1/2/2007	18:30		1/2/2007	19:02
\0102009.D	T-54-GW-40	D0602139-003	1/2/2007	19:10		1/2/2007	19:42
\0102010.D	T-54-GW-65	D0602139-004	1/2/2007	19:51		1/2/2007	20:23
\0102011.D	T-55-GW-11	D0602139-006	1/2/2007	20:31		1/2/2007	21:03
\0102012.D	T-55-GW-40	D0602139-007	1/2/2007	21:12		1/2/2007	21:44
\0102013.D	T-55-GW-70	D0602139-008	1/2/2007	21:52		1/2/2007	22:24
\0102014.D	Continuing Calibration Verification	DWG0700106-2	1/2/2007	22:32		1/2/2007	23:04

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0602139
Date Extracted: 01/02/2007

Extraction Prep Log
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3510M
Analysis Method: 8015B

Extraction Lot: DWG0700105
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
T-54-GW-11	D0602139-002	12/20/06	12/22/06	30.0ml	3ml	NA	
T-54-GW-40	D0602139-003	12/20/06	12/22/06	30.0ml	3ml	NA	
T-54-GW-65	D0602139-004	12/20/06	12/22/06	30.0ml	3ml	NA	
T-55-GW-11	D0602139-006	12/20/06	12/22/06	30.0ml	3ml	NA	
T-55-GW-40	D0602139-007	12/20/06	12/22/06	30.0ml	3ml	NA	
T-55-GW-70	D0602139-008	12/20/06	12/22/06	30.0ml	3ml	NA	
Method Blank	DWG0700105-4	NA	NA	30.0ml	3ml	NA	
T-54-GW-11MS	DWG0700105-1	12/20/06	12/22/06	30.0ml	3ml	NA	
T-54-GW-11DMS	DWG0700105-2	12/20/06	12/22/06	30.0ml	3ml	NA	
Lab Control Sample	DWG0700105-3	NA	NA	30.0ml	3ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Initial Calibration Data

Initial Calibration - Detailed Report

Calibration ID:	CAL1243	**Instrument ID:**	GCO
Method ID:	MJ411	**Column Name:**	RTX-5
		Calibration Fit:	AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
15415	C:\HPCHEM\2\DATA\120106P\1201004.D	12/01/2006 15:52	01/03/2007 09:55	01/03/2007 10:40
15416	C:\HPCHEM\2\DATA\120106P\1201005.D	12/01/2006 16:32	01/03/2007 09:55	01/03/2007 10:40
15417	C:\HPCHEM\2\DATA\120106P\1201006.D	12/01/2006 17:12	01/03/2007 09:55	01/03/2007 10:40
15418	C:\HPCHEM\2\DATA\120106P\1201007.D	12/01/2006 17:53	01/03/2007 09:56	01/03/2007 10:40
15419	C:\HPCHEM\2\DATA\120106P\1201008.D	12/01/2006 18:33	01/03/2007 09:56	01/03/2007 10:41
15420	C:\HPCHEM\2\DATA\120106P\1201009.D	12/01/2006 19:13	01/03/2007 09:56	01/03/2007 10:41
15421	C:\HPCHEM\2\DATA\120106P\1201010.D	12/01/2006 19:54	01/03/2007 09:56	01/03/2007 10:41
15422	C:\HPCHEM\2\DATA\120106P\1201011.D	12/01/2006 20:34	01/03/2007 09:57	01/03/2007 10:41

	FileID								Mean	
Parameter Name	**15415**	**15416**	**15417**	**15418**	**15419**	**15420**	**15421**	**15422**	**RF**	**%RSD**
Gasoline Range Organics (C6-C12)	1.8E+5	1.7E+5	1.7E+5	1.7E+5	1.8E+5	1.6E+5	1.5E+5	1.4E+5	1.7E+5	8.6
Diesel Range Organics (C13-C22)	1.6E+5	1.6E+5	1.7E+5	1.6E+5	1.8E+5	1.4E+5	1.4E+5	1.3E+5	1.6E+5	10.6
Heavy Range Organics (C24-C36)	1.8E+5	1.5E+5	1.5E+5	1.5E+5	1.5E+5	1.2E+5	1.2E+5	1.1E+5	1.4E+5	16.5
Octacosane		1.4E+5	1.4E+5	1.4E+5	1.6E+5	1.3E+5	1.3E+5	1.3E+5	1.4E+5	7.7

Alternate Calibration Evaluation Summary

Maximum Allowable Average %RSD =	20.0
Calculated Average %RSD =	10.8

Calibration Status Report GCO

Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	-1.00	0.00	C:\HPCHEM\2\DATA\120106P\1201004.D
2	2	5.00	0.00	C:\HPCHEM\2\DATA\120106P\1201005.D
3	3	25.00	0.00	C:\HPCHEM\2\DATA\120106P\1201006.D
4	4	50.00	0.00	C:\HPCHEM\2\DATA\120106P\1201007.D
5	5	75.00	0.00	C:\HPCHEM\2\DATA\120106P\1201008.D
6	6	125.00	0.00	C:\HPCHEM\2\DATA\120106P\1201009.D
7	7	150.00	0.00	C:\HPCHEM\2\DATA\120106P\1201010.D
8	8	300.00	0.00	C:\HPCHEM\2\DATA\120106P\1201011.D

1/3/07

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 03 10:02 2007	Jan 03 09:55 19107	1 Dec 2006 3:52 pm
2	2	Jan 03 10:03 2007	Jan 03 09:55 19107	1 Dec 2006 4:32 pm
3	3	Jan 03 10:03 2007	Jan 03 09:55 19107	1 Dec 2006 5:12 pm
4	4	Jan 03 10:03 2007	Jan 03 09:56 19107	1 Dec 2006 5:53 pm
5	5	Jan 03 10:03 2007	Jan 03 09:56 19107	1 Dec 2006 6:33 pm
6	6	Jan 03 10:03 2007	Jan 03 09:56 19107	1 Dec 2006 7:13 pm
7	7	Jan 03 10:03 2007	Jan 03 09:56 19107	1 Dec 2006 7:54 pm
8	8	Jan 03 10:03 2007	Jan 03 09:57 19107	1 Dec 2006 8:34 pm

FPO61201.M Wed Jan 03 10:07:07 2007

DATA ANALYSIS PARAMETERS

Method Name: C:\HPCHEM\2\METHODS\FPO61201.M

JEM 1/3/07

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

FC c6-c36 Calibration
Calibration Last Updated: Wed Jan 03 10:05:55 2007

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---

1) GRO (c6 - c12) ( )
Ret. Time 4.00 min., Extract & Integrate from 1.80 to 7.94 min.

Lvl	ID	Conc (mg/L)	Response
1		5.000	902098
2		10.000	1735068
3		50.000	8679412
4		100.000	16663836
5		500.000	90623582
6		1000.000	155587652

7	2500.000	372768720
8	5000.000	722753214

Curve Fit: Avg. RF

---

2) DRO (c13 - c22) ( )

Ret. Time 10.00 min., Extract & Integrate from 8.58 to 16.07 min.

Lvl	ID	Conc (mg/L)	Response
1		5.000	806476
2		10.000	1621358
3		50.000	8574480
4		100.000	16216972
5		500.000	89306154
6		1000.000	144355657
7		2500.000	344976145
8		5000.000	657289029

Curve Fit: Avg. RF

---

3) HRO (c23 - c36) ( )

Ret. Time 19.00 min., Extract & Integrate from 16.29 to 24.52 min.

Lvl	ID	Conc (mg/L)	Response
1		5.000	909001
2		10.000	1493694
3		50.000	7281011
4		100.000	14640816
5		500.000	75846930
6		1000.000	123306234
7		2500.000	288799964
8		5000.000	554051030

Curve Fit: Avg. RF

---

4) Octacosane ( )

Ret. Time 19.25 min., Extract & Integrate from 18.95 to 19.55 min.

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		5.000	681279
3		25.000	3589727
4		50.000	6800434
5		75.000	12177260
6		125.000	16603004
7		150.000	19796418
8		300.000	40394225

Curve Fit: Avg. RF

---

5) Triacontane ( )

Ret. Time 20.23 min., Extract & Integrate from 19.93 to 20.53 min.

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		5.000	687291
3		25.000	3672417
4		50.000	7019907
5		75.000	12442320
6		125.000	16898829
7		150.000	19926179

8 300.000 41732102

Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Wed Jan 03 10:07:08 2007

Response Factor Report GCO

Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007

JLPM 1/3/07

Calibration Files
1 =1201004.D 2 =1201005.D 3 =1201006.D
4 =1201007.D 5 =1201008.D 6 =1201009.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	H	GRO (c6 - c12)	1.804	1.735	1.736	1.666	1.812	1.556	1.656	E5	8.56
2)	H	DRO (c13 - c22)	1.613	1.621	1.715	1.622	1.786	1.444	1.562	E5	10.60
3)	H	HRO (c23 - c36)	1.818	1.494	1.456	1.464	1.517	1.233	1.406	E5	16.51
4)	S	Octacosane		1.363	1.436	1.360	1.624	1.328	1.397	E5	7.66
5)	S	Triacontane		1.375	1.469	1.404	1.659	1.352	1.425	E5	7.87

(#) = Out of Range ### Number of calibration levels exceeded format ###

Sequence Name: C:\HPCHEM\2\SEQUENCE\120106.S
Comment:
Operator:
Data Path: C:\HPCHEM\2\DATA\110706\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

MCM 1/3/2007

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	1	1201001	GCOFC	Instrument Blank
2	RES	2	1201002	GCOFC	RT Marker Mix c8-c40
3	SOLV	3	1201003	GCOFC	wash blk
4	ICAL	4	1201004	GCOFC	5ppm Gas/Dsl/Oil ICAL Std
5	ICAL	5	1201005	GCOFC	10ppm Gas/Dsl/Oil ICAL Std
6	ICAL	6	1201006	GCOFC	50ppm Gas/Dsl/Oil ICAL Std
7	ICAL	7	1201007	GCOFC	100ppm Gas/Dsl/Oil ICAL Std
8	ICAL	8	1201008	GCOFC	500ppm Gas/Dsl/Oil ICAL Std
9	ICAL	9	1201009	GCOFC	1000ppm Gas/Dsl/Oil ICAL Std
10	ICAL	10	1201010	GCOFC	2500ppm Gas/Dsl/Oil ICAL Std
11	ICAL	11	1201011	GCOFC	5000ppm Gas/Dsl/Oil ICAL Std
12	SOLV	12	1201012	GCOFC	wash blk
13	SOLV	12	1201013	GCOFC	wash blk
14	SOLV	12	1201014	GCOFC	wash blk
15	ICV	13	1201015	GCOFC	1000ppm Gas/Dsl/Oil ICV Std
16					

Last Modified: Fri Dec 01 13:37:18 2006 Page: 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201001.D Vial: 1
Acq On : 1 Dec 2006 1:39 pm Operator:
Sample : Instrument Blank Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:54 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:47:57 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

JWM 1/3/07

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.22	26146	0.187 mg/L
Spiked Amount 75.000	Recovery =		0.25%
5) S Triacontane	20.19	30867	0.250 mg/L
Spiked Amount 75.000	Recovery =		0.33%
Target Compounds			
1) H GRO (c6 - c12)	4.00	232042	1.401 mg/L
2) H DRO (c13 - c22)	10.00	235074	1.505 mg/L
3) H HRO (c23 - c36)	19.00	500702	4.335 mg/L

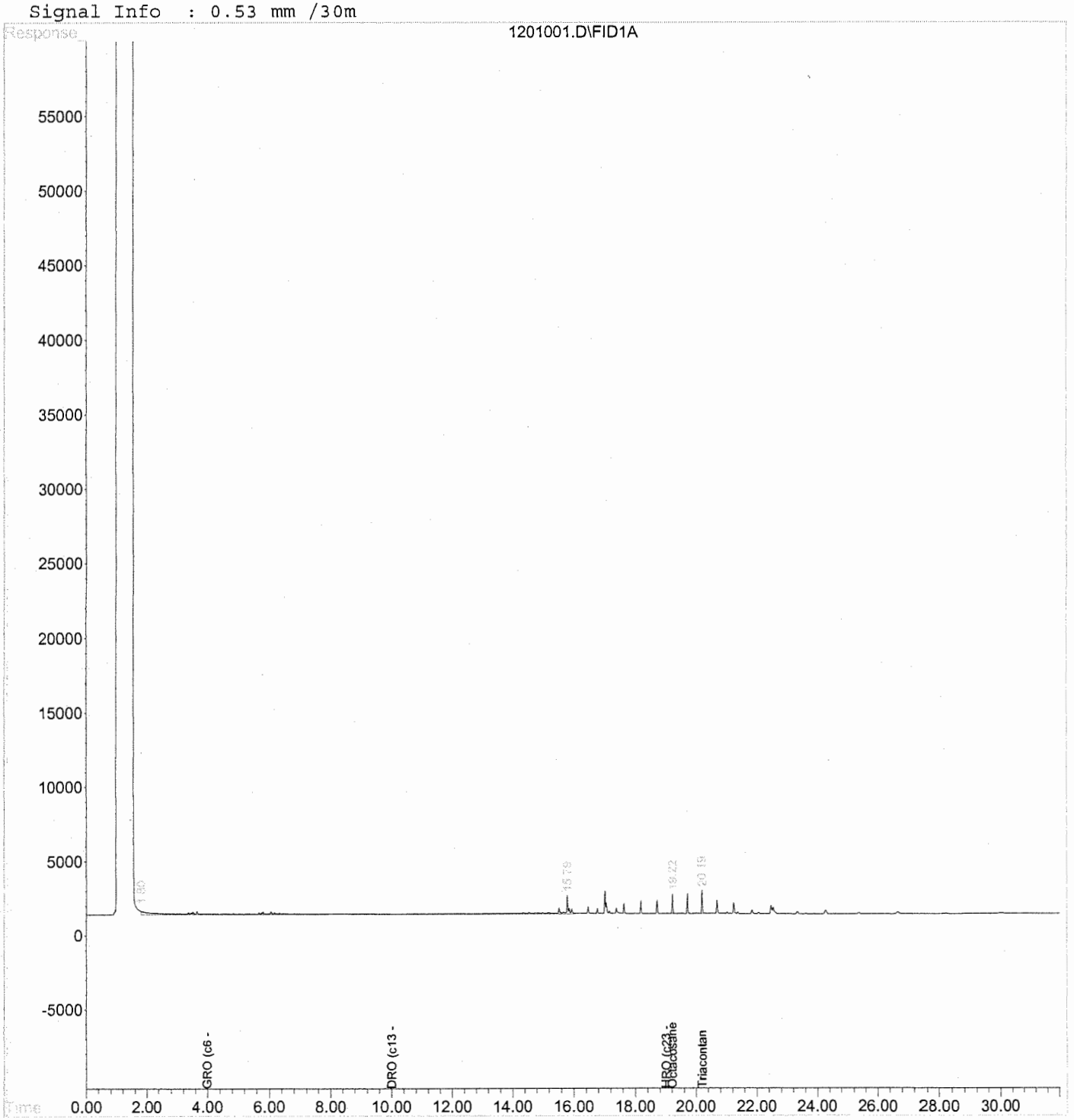
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201001.D Vial: 1
Acq On : 1 Dec 2006 1:39 pm Operator:
Sample : Instrument Blank Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:54 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:47:57 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201002.D Vial: 2
Acq On : 1 Dec 2006 2:31 pm Operator: M.C.M.
Sample : RT Marker Mix c8-c40 Inst : GCO
Misc : 22-GC-44J Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:54 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:47:57 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

JCM 1/3/07

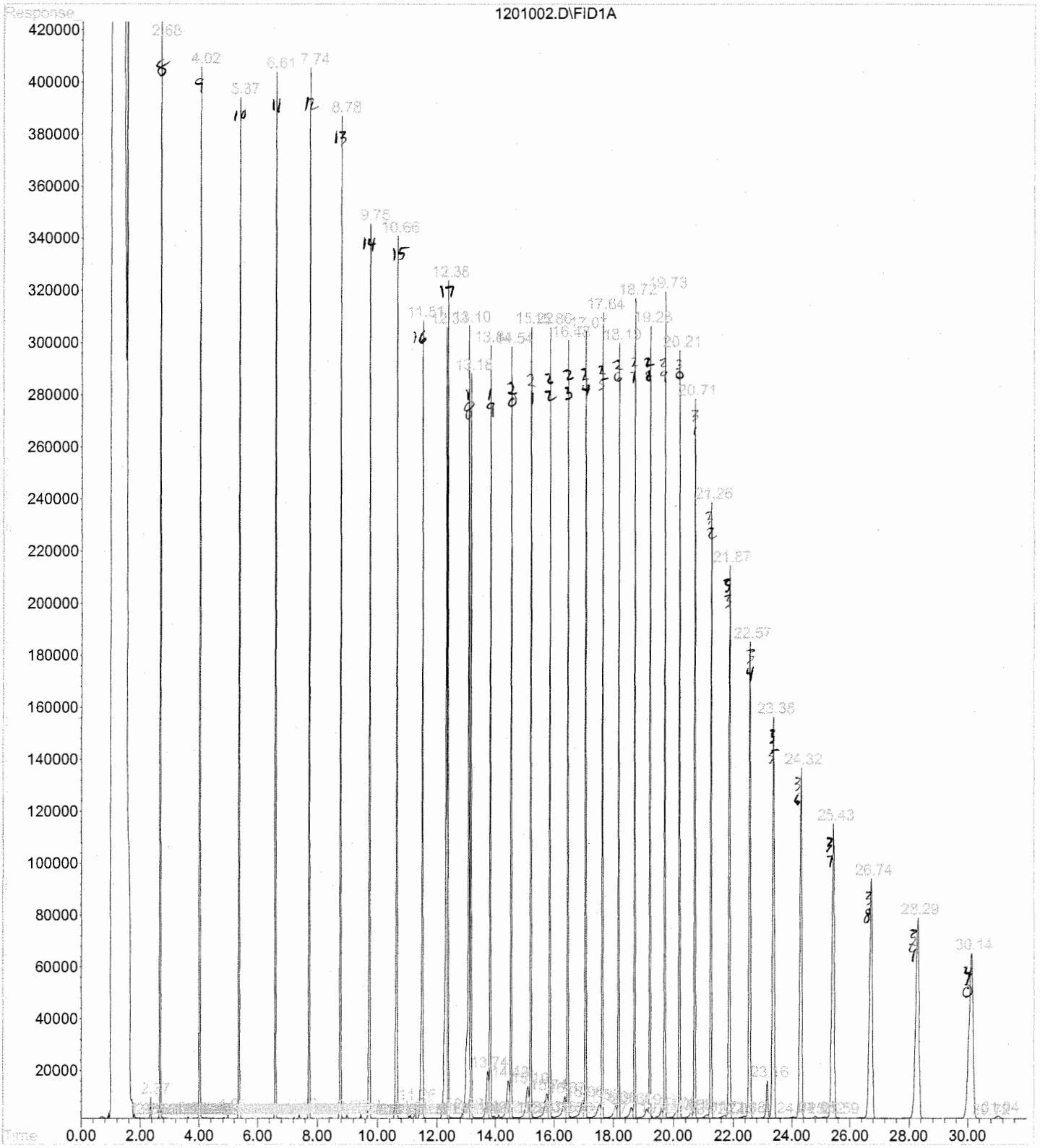
Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.23	6074014	43.489	mg/L
Spiked Amount 75.000	Recovery =		57.99%	
5) S Triacontane	20.33	534	0.004	mg/L
Spiked Amount 75.000	Recovery =		0.01%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	36313070	219.307	mg/L
2) H DRO (c13 - c22)	10.00	85840295	549.595	mg/L
3) H HRO (c23 - c36)	19.00	86346930	747.528	mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File : C:\HPCHEM\2\DATA\120106P\1201002.D
Operator : M.C.M.
Acquired : 1 Dec 2006 2:31 pm using AcqMethod GCOFC.M
Instrument : GCO
Sample Name: RT Marker Mix c8-c40
Misc Info : 22-GC-44J
Vial Number: 2

GRO $_{c8-c12}$ = 1.8 → 7.94 min.
DRO c13 - c22 = 8.58 → 16.07 min.
HRO c23 - c36 = 16.29 → 24.52 min.



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201004.D Vial: 4
Acq On : 1 Dec 2006 3:52 pm Operator: M.C.M.
Sample : 5ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64J Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:55 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/07

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.21	526449	3.769 mg/L
Spiked Amount 75.000	Recovery =		5.03%
5) S Triacontane	20.19	542667	4.398 mg/L
Spiked Amount 75.000	Recovery =		5.86%
Target Compounds			
1) H GRO (c6 - c12)	4.00	902098	5.448 mg/L
2) H DRO (c13 - c22)	10.00	806476	5.163 mg/L
3) H HRO (c23 - c36)	19.00	909001	7.869 mg/L

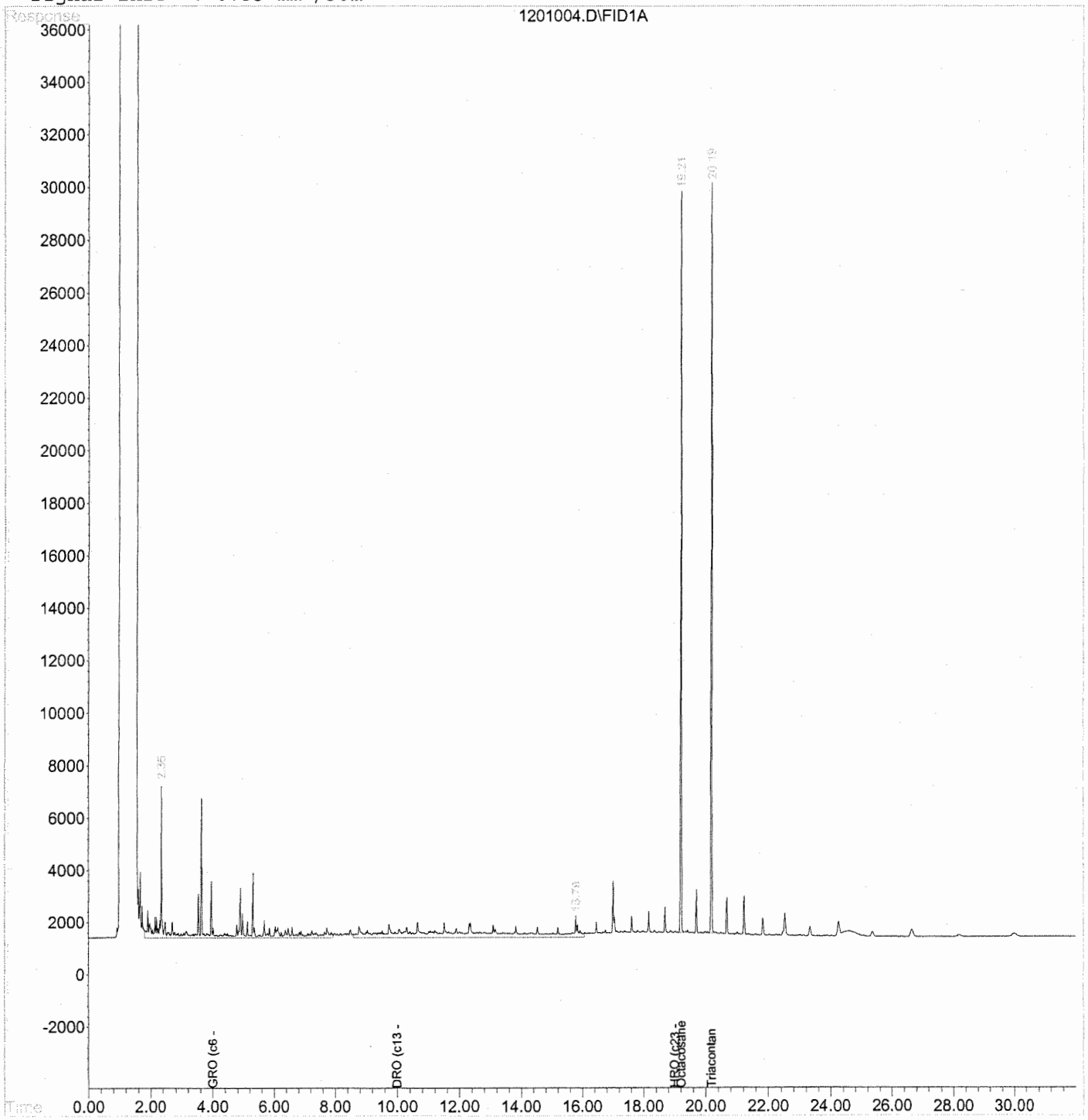
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201004.D Vial: 4
Acq On : 1 Dec 2006 3:52 pm Operator: M.C.M.
Sample : 5ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64J Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:55 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201005.D Vial: 5
Acq On : 1 Dec 2006 4:32 pm Operator: M.C.M.
Sample : 10ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64k Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:55 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.21	681279	4.878 mg/L
Spiked Amount 75.000	Recovery =		6.50%
5) S Triacontane	20.19	687291	5.570 mg/L
Spiked Amount 75.000	Recovery =		7.43%
Target Compounds			
1) H GRO (c6 - c12)	4.00	1735068	10.479 mg/L
2) H DRO (c13 - c22)	10.00	1621358	10.381 mg/L
3) H HRO (c23 - c36)	19.00	1493694	12.931 mg/L

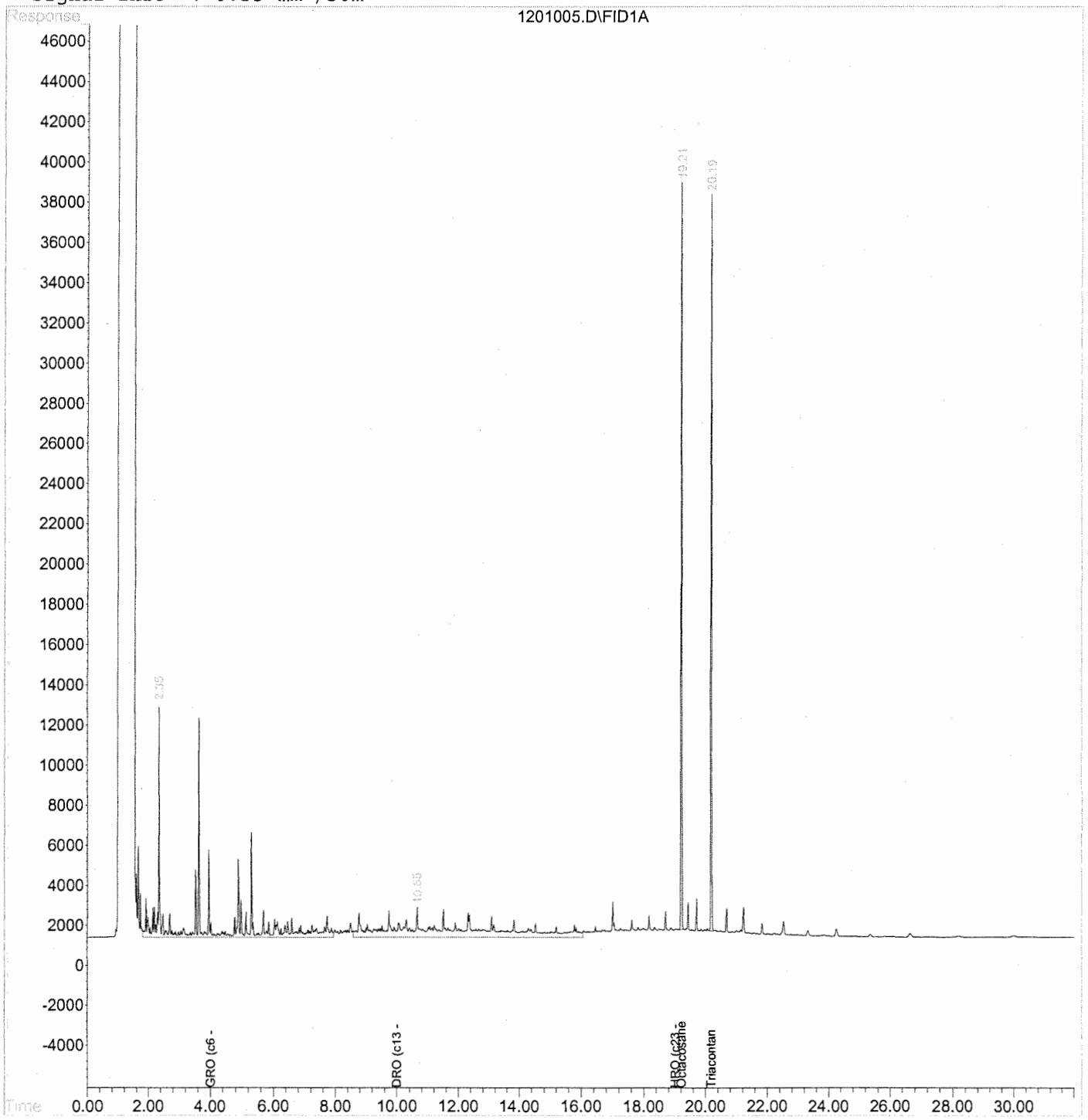
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201005.D Vial: 5
Acq On : 1 Dec 2006 4:32 pm Operator: M.C.M.
Sample : 10ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64k Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:55 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201006.D Vial: 6
Acq On : 1 Dec 2006 5:12 pm Operator: M.C.M.
Sample : 50ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64d Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:55 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.22	3589727	25.702 mg/L
Spiked Amount 75.000		Recovery =	34.27%
5) S Triacontane	20.20	3672417	29.764 mg/L
Spiked Amount 75.000		Recovery =	39.69%
Target Compounds			
1) H GRO (c6 - c12)	4.00	8679412	52.418 mg/L
2) H DRO (c13 - c22)	10.00	8574480	54.898 mg/L
3) H HRO (c23 - c36)	19.00	7281011	63.034 mg/L

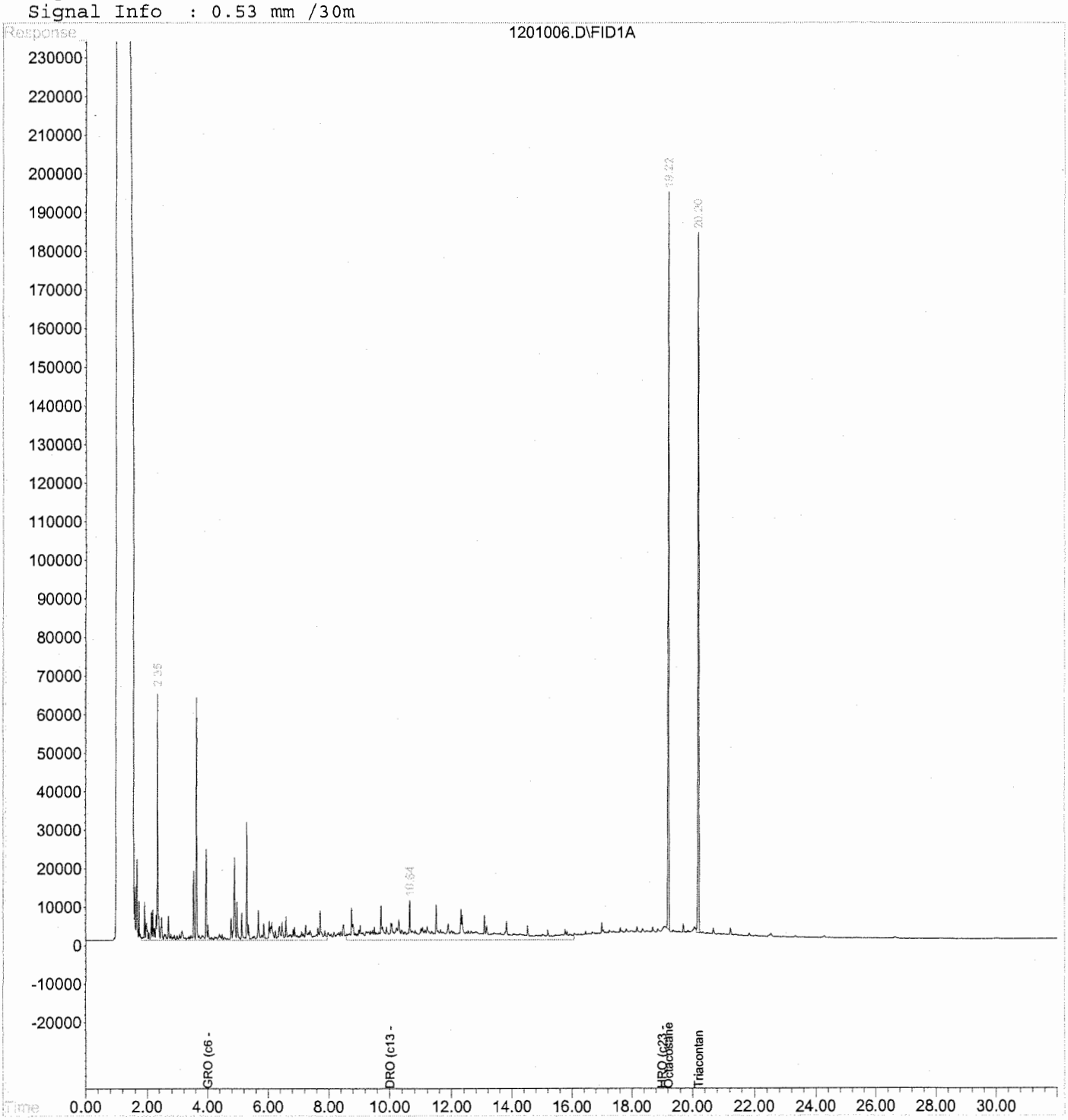
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201006.D Vial: 6
Acq On : 1 Dec 2006 5:12 pm Operator: M.C.M.
Sample : 50ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64d Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:55 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201007.D Vial: 7
Acq On : 1 Dec 2006 5:53 pm Operator: M.C.M.
Sample : 100ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64e Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:56 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/07

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.23	6800434	48.691 mg/L
Spiked Amount 75.000	Recovery =		64.92%
5) S Triacontane	20.21	7019907	56.894 mg/L
Spiked Amount 75.000	Recovery =		75.86%
Target Compounds			
1) H GRO (c6 - c12)	4.00	16663836	100.639 mg/L
2) H DRO (c13 - c22)	10.00	16216972	103.830 mg/L
3) H HRO (c23 - c36)	19.00	14640816	126.749 mg/L

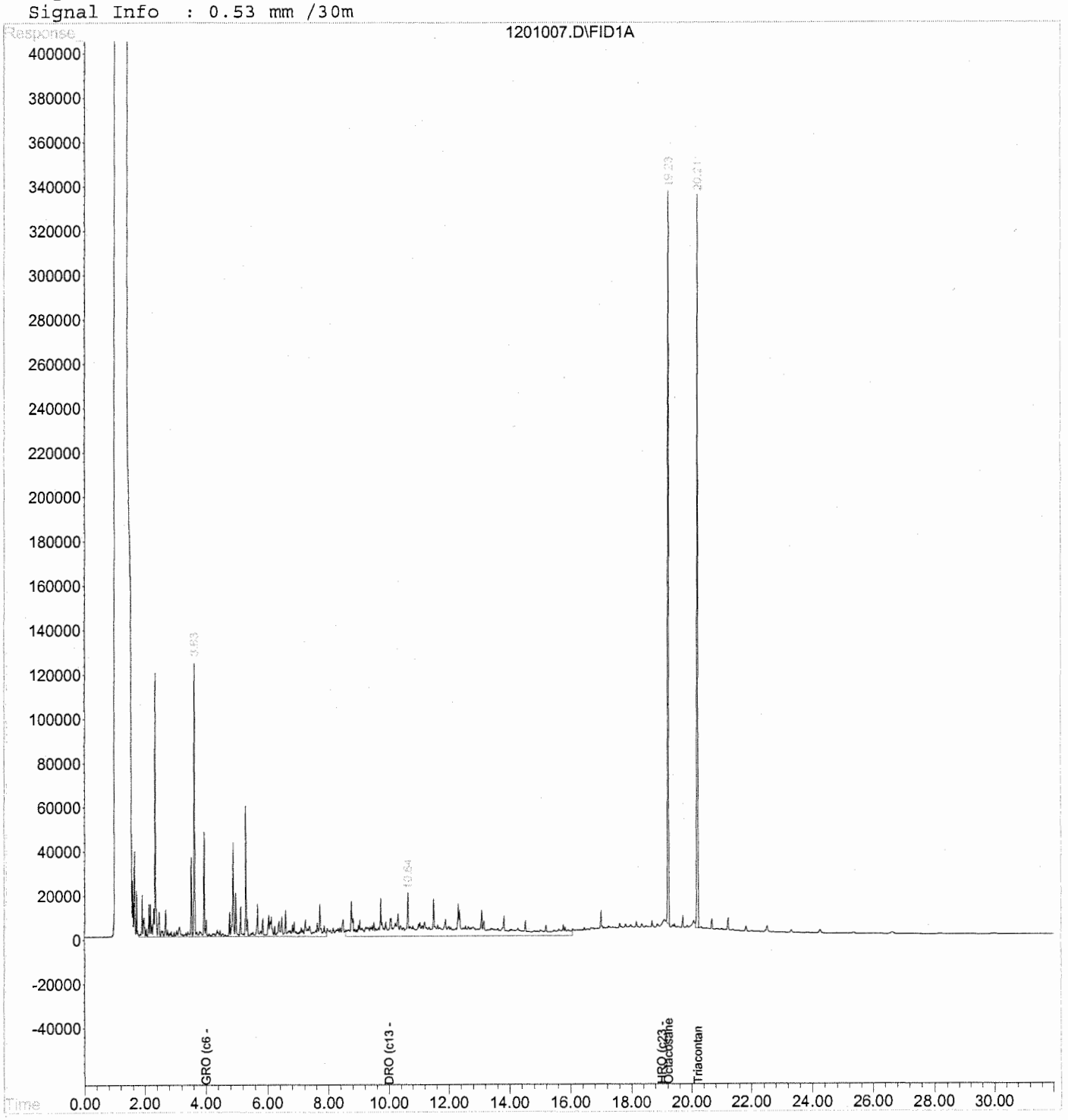
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201007.D Vial: 7
Acq On : 1 Dec 2006 5:53 pm Operator: M.C.M.
Sample : 100ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64e Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:56 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201008.D Vial: 8
Acq On : 1 Dec 2006 6:33 pm Operator: M.C.M.
Sample : 500ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64f Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:56 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.25	12177260	87.188 mg/L
Spiked Amount 75.000		Recovery =	116.25%
5) S Triacontane	20.22	12442320	100.841 mg/L
Spiked Amount 75.000		Recovery =	134.45%
Target Compounds			
1) H GRO (c6 - c12)	4.00	90623582	547.307 mg/L
2) H DRO (c13 - c22)	10.00	89306154	571.785 mg/L
3) H HRO (c23 - c36)	19.00	75846930	656.627 mg/L

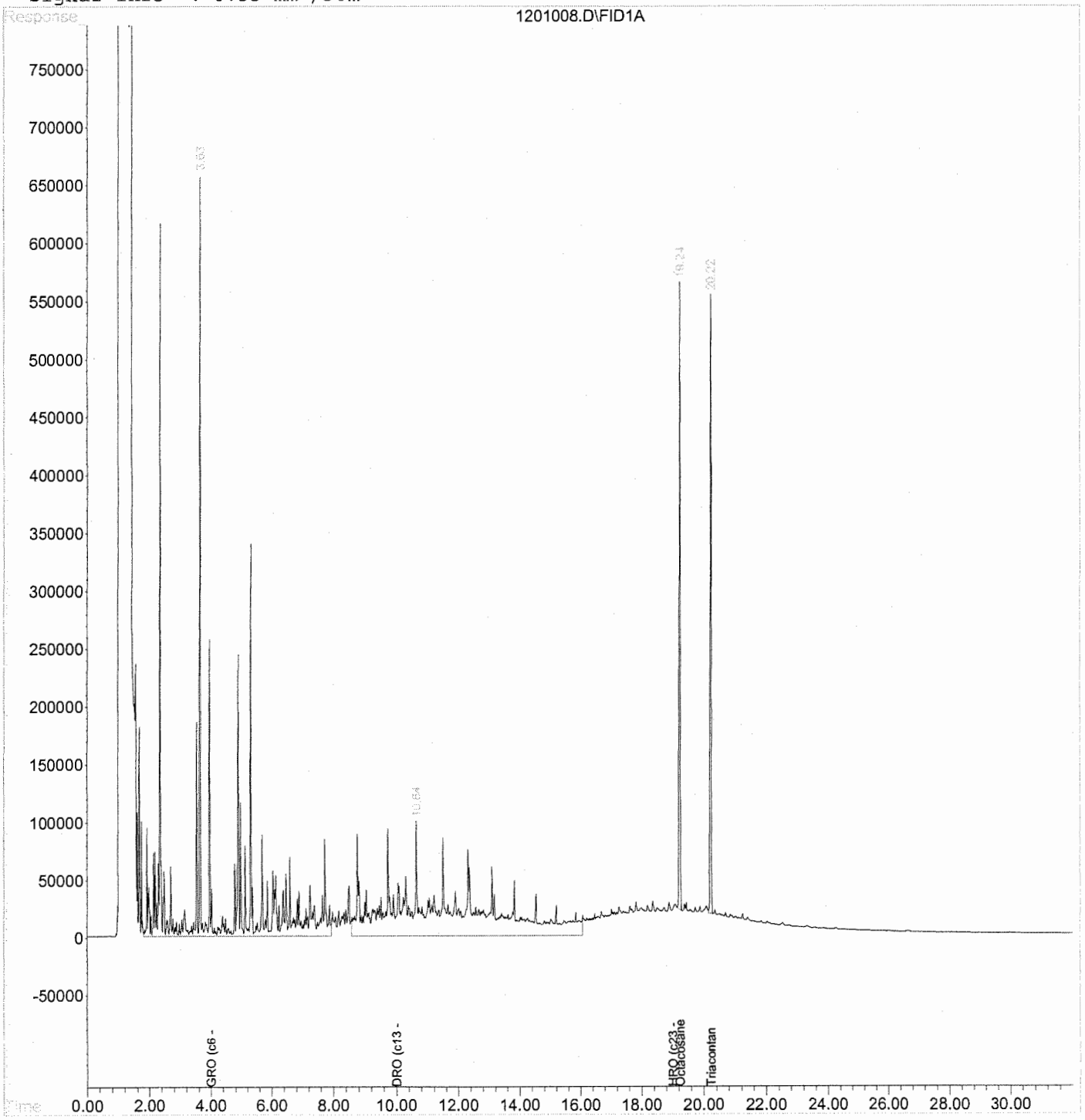
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201008.D Vial: 8
Acq On : 1 Dec 2006 6:33 pm Operator: M.C.M.
Sample : 500ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64f Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:56 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201009.D Vial: 9
Acq On : 1 Dec 2006 7:13 pm Operator: M.C.M.
Sample : 1000ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64g Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:56 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/2007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.26	16603004	118.876	mg/L
Spiked Amount 75.000		Recovery =	158.50%	
5) S Triacontane	20.23	16898829	136.959	mg/L
Spiked Amount 75.000		Recovery =	182.61%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	155587652	939.648	mg/L
2) H DRO (c13 - c22)	10.00	144355657	924.241	mg/L
3) H HRO (c23 - c36)	19.00	123306234	1067.495	mg/L

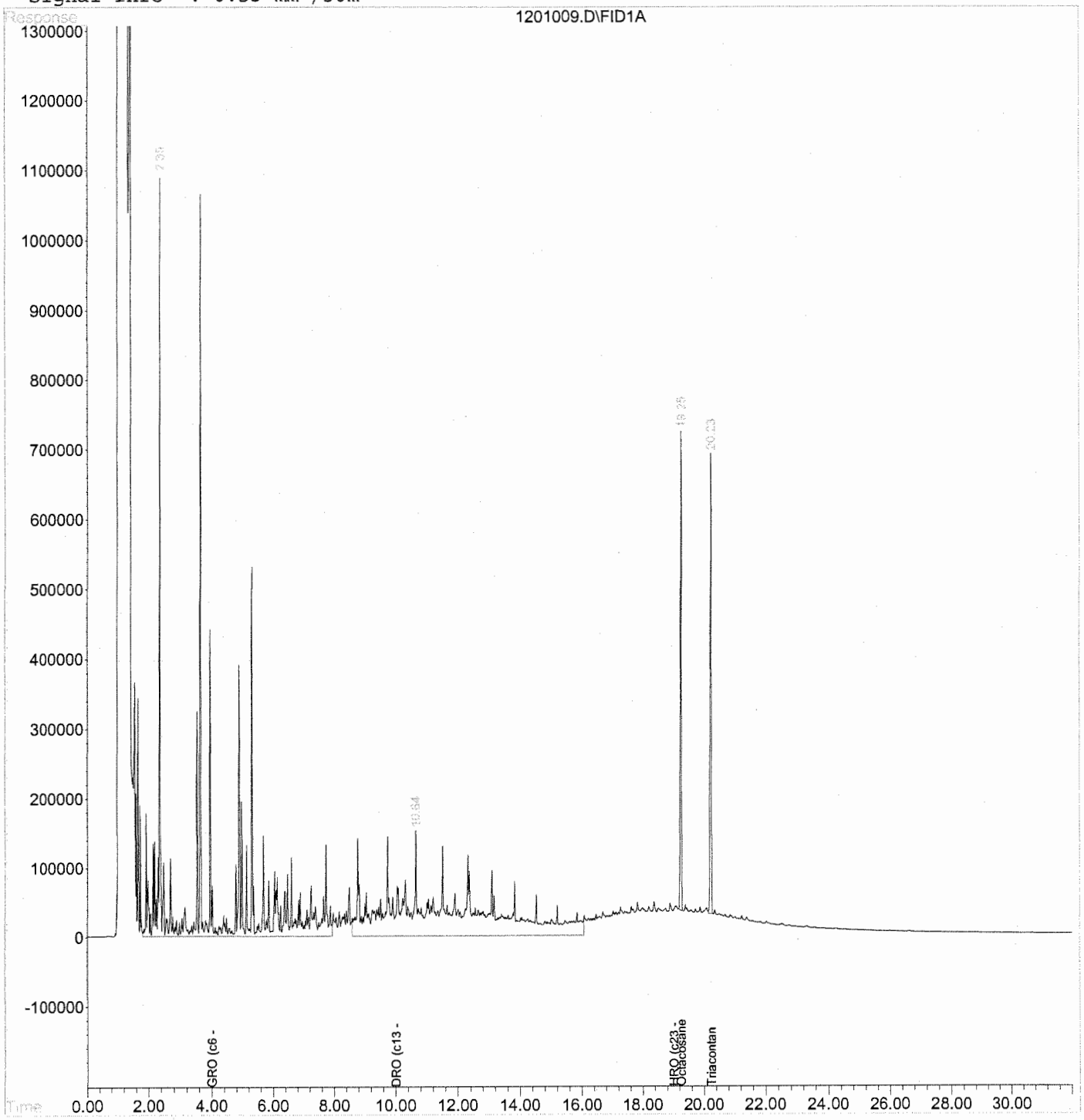
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201009.D Vial: 9
Acq On : 1 Dec 2006 7:13 pm Operator: M.C.M.
Sample : 1000ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64g Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:56 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201010.D Vial: 10
Acq On : 1 Dec 2006 7:54 pm Operator: M.C.M.
Sample : 2500ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64h Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:56 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/2007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.27	19796418	141.741	mg/L
Spiked Amount 75.000	Recovery =		188.99%	
5) S Triacontane	20.25	19926179	161.495	mg/L
Spiked Amount 75.000	Recovery =		215.33%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	372768720	2251.281	mg/L
2) H DRO (c13 - c22)	10.00	344976145	2208.719	mg/L
3) H HRO (c23 - c36)	19.00	288799964	2500.218	mg/L

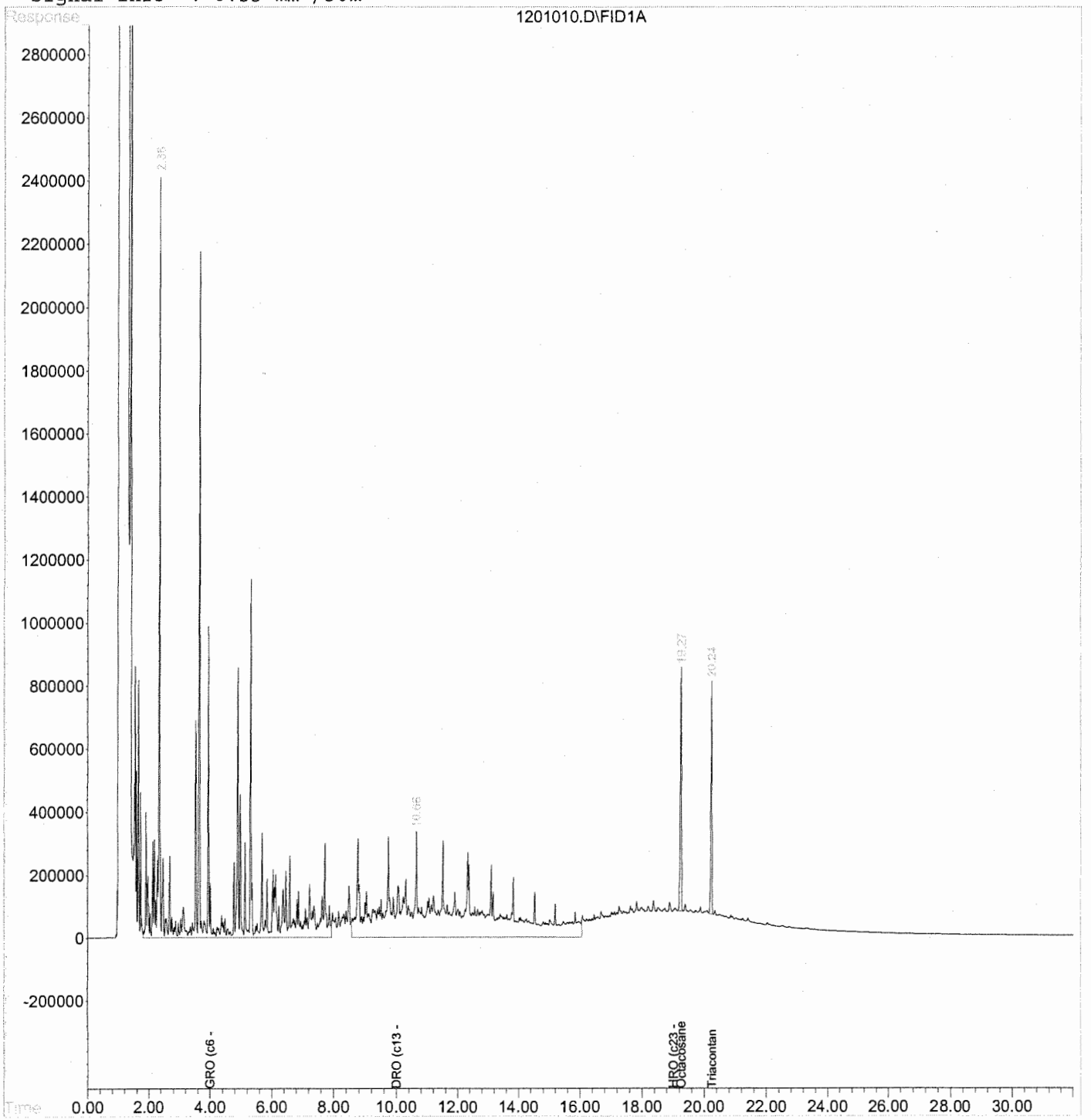
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201010.D Vial: 10
Acq On : 1 Dec 2006 7:54 pm Operator: M.C.M.
Sample : 2500ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-64h Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:56 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:55:10 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201011.D Vial: 11
Acq On : 1 Dec 2006 8:34 pm Operator: M.C.M.
Sample : 5000ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-72a Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:57 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:57:00 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/2007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.30	40394225	289.219	mg/L
Spiked Amount 75.000		Recovery =	385.63%	
5) S Triacontane	20.28	41732102	338.224	mg/L
Spiked Amount 75.000		Recovery =	450.97%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	722753214	4364.959	mg/L
2) H DRO (c13 - c22)	10.00	657289029	4208.311	mg/L
3) H HRO (c23 - c36)	19.00	554051030	4796.567	mg/L

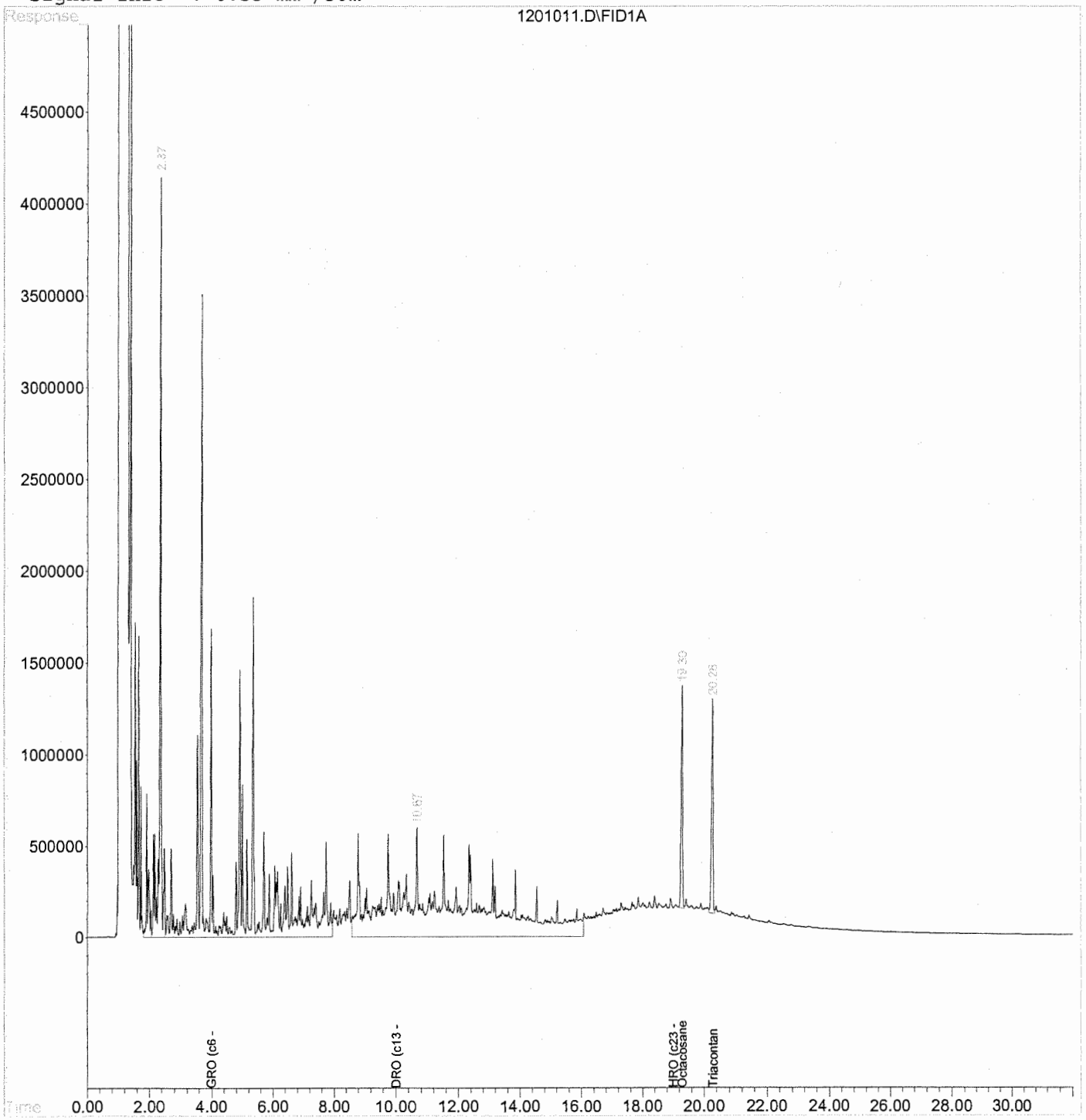
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201011.D Vial: 11
Acq On : 1 Dec 2006 8:34 pm Operator: M.C.M.
Sample : 5000ppm Gas/Dsl/Oil ICAL Std Inst : GCO
Misc : 22-GC-72a Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 9:57 2007 Quant Results File: FPOTEMP.RES

Quant Method : C:\HPCHEM\2\METHODS\FPOTEMP.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 09:57:00 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Second Source Calibration Verification Summary

CalibrationID: CAL1243

Method ID: MJ411

DataFile Location: C:\HPCHEM\2\DATA\120106P\1201015.D

1/3/07

Units: mg/L

Column: RTX-5

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Gasoline Range Organics (C6-C12)	15423	AverageRF	30	1.7E+5	1.5E+5	-10.6	1000.00	894.2	
Diesel Range Organics (C13-C22)	15423	AverageRF	30	1.6E+5	1.4E+5	-12.8	1000.00	872.4	
Heavy Range Organics (C24-C36)	15423	AverageRF	30	1.4E+5	1.2E+5	-17.5	1000.00	825.2	

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	30.0
Calculated Average %D =	13.6

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\120106P\1201015.D Vial: 13
Acq On : 1 Dec 2006 11:15 pm Operator: M.C.M.
Sample : 1000ppm Gas/Dsl/Oil ICV Std Inst : GCO
Misc : 22-GC-64L Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration

JEM 1/3/2007

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
1	H	GRO (c6 - c12)	165.581	148.067	E3	10.6	95	0.00
2	H	DRO (c13 - c22)	156.188	136.265	E3	12.8	94	0.00
3	H	HRO (c23 - c36)	140.566	115.995	E3	17.5	94	0.00
4	S	Octacosane	139.666	124.137	E3	11.1	93	0.00
5	S	Triacontane	142.541	126.440	E3	11.3	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1201015.D FPO61201.M Wed Jan 03 10:06:11 2007 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120106P\1201015.D Vial: 13
Acq On : 1 Dec 2006 11:15 pm Operator: M.C.M.
Sample : 1000ppm Gas/Dsl/Oil ICV Std Inst : GCO
Misc : 22-GC-64L Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 10:06 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/2007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.25	15517123	111.101 mg/L
Spiked Amount 75.000		Recovery =	148.13%
5) S Triacontane	20.23	15805027	110.880 mg/L
Spiked Amount 75.000		Recovery =	147.84%
Target Compounds			
1) H GRO (c6 - c12)	4.00	148067040	894.229 mg/L
2) H DRO (c13 - c22)	10.00	136265479	872.444 mg/L
3) H HRO (c23 - c36)	19.00	115995342	825.202 mg/L

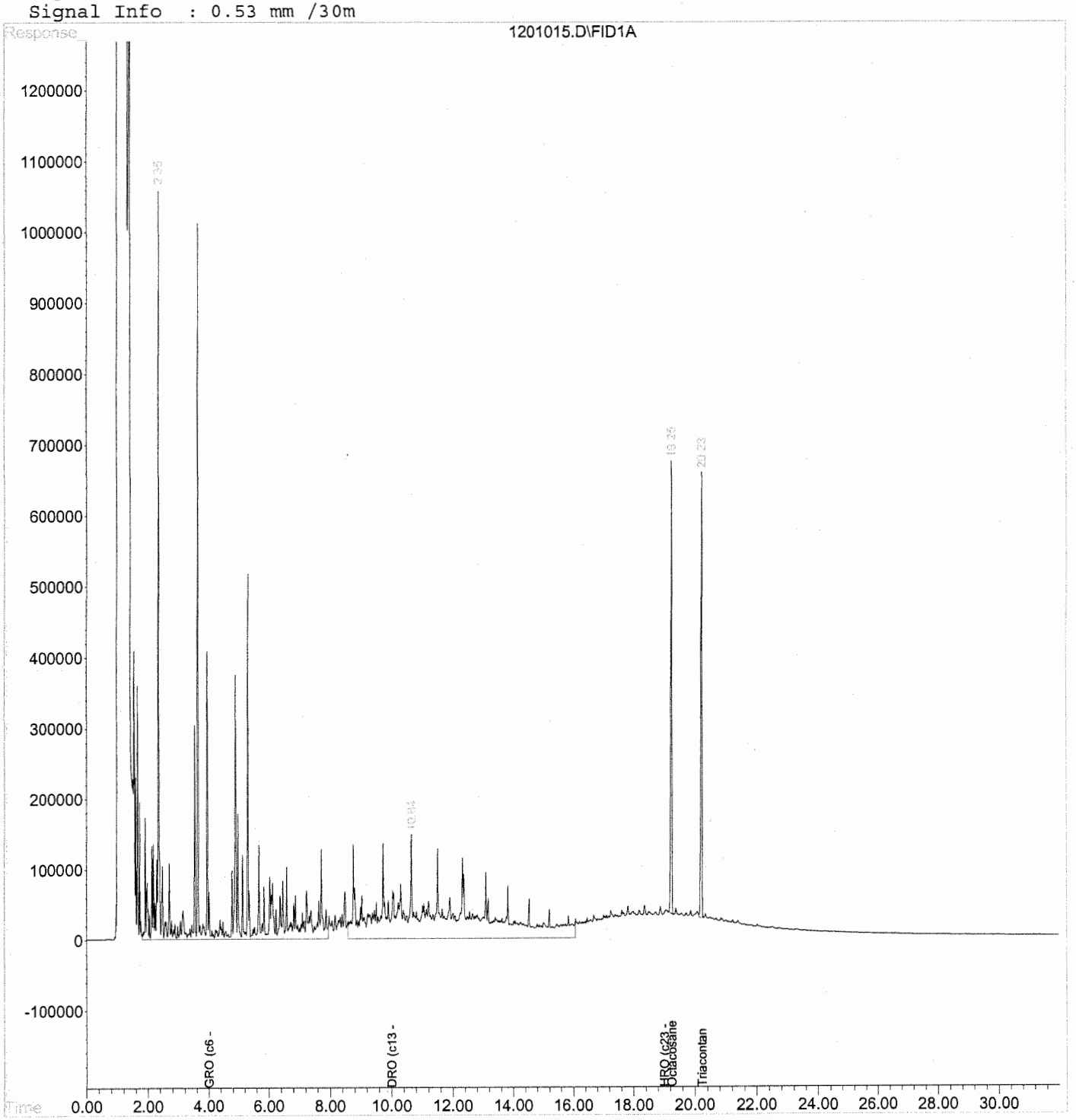
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120106P\1201015.D Vial: 13
Acq On : 1 Dec 2006 11:15 pm Operator: M.C.M.
Sample : 1000ppm Gas/Dsl/Oil ICV Std Inst : GCO
Misc : 22-GC-64L Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 10:06 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Continuing Calibration Data

Sequence Name: C:\HPCHEM\2\SEQUENCE\010207.S
Comment:
Operator: mcm
Data Path: C:\HPCHEM\2\DATA\010207\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

mcm 1/3/2007

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	1	0102001	GCOFC	Instrument Blank
2	RES	2	0102002	GCOFC	RT Marker Mix c8-c40
3	CCV	3	0102003	GCOFC	500ppm Gas/Dsl/Oil CCV Std
4	MB	4	0102004	GCOFC	wmb 1/2/7
5	LCS	5	0102005	GCOFC	wlcs 1/2/7
6	SMPL	6	0102006	GCOFC	D0602139-002.02 30mL:3mL
7	MS	7	0102007	GCOFC	D0602139-002.01ms 30mL:3mL
8	DMS	8	0102008	GCOFC	D0602139-002.06dms 30mL:3mL
9	SMPL	9	0102009	GCOFC	D0602139-003.05 30mL:3mL
10	SMPL	10	0102010	GCOFC	D0602139-004.05 30mL:3mL
11	SMPL	11	0102011	GCOFC	D0602139-006.05 30mL:3mL
12	SMPL	12	0102012	GCOFC	D0602139-007.05 30mL:3mL
13	SMPL	13	0102013	GCOFC	D0602139-008.06 30mL:3mL
14	CCV	14	0102014	GCOFC	1000ppm Gas/Dsl/Oil CCV Std
15	SMPL	15	0102015	GCOFC	P0600340-001.01 30mL:3mL
16	SMPL	16	0102016	GCOFC	P0600340-002.01 30mL:3mL
17	SMPL	17	0102017	GCOFC	P0600340-003.01 30mL:3mL
18	CCV	3	0102018	GCOFC	500ppm Gas/Dsl/Oil CCV Std
19					

Prep: DWG0700105

Analysis: DWG0700106

Last Modified: Tue Jan 02 15:41:27 2007 Page: 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102001.D Vial: 1
Acq On : 2 Jan 2007 11:29 am Operator: mcm
Sample : Instrument Blank Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:03 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

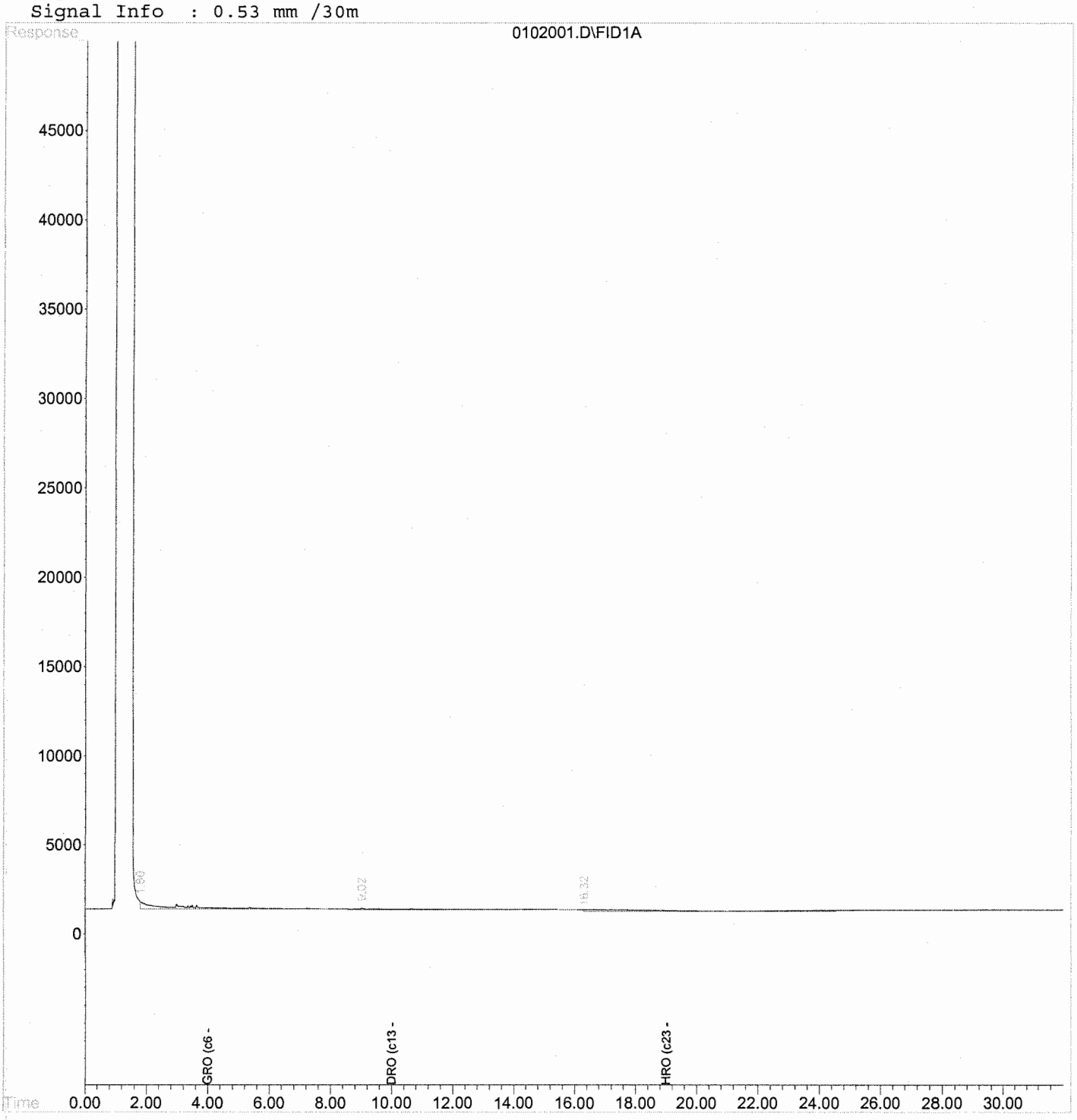
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	0.00	0	N.D.	mg/L
Spiked Amount 75.000	Recovery	=	0.00%	
5) S Triacontane	0.00	0	N.D.	mg/L
Spiked Amount 75.000	Recovery	=	0.00%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	277374	1.675	mg/L
2) H DRO (c13 - c22)	10.00	107054	0.685	mg/L
3) H HRO (c23 - c36)	19.00	193378	1.376	mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\010207\0102001.D Vial: 1
Acq On : 2 Jan 2007 11:29 am Operator: mcm
Sample : Instrument Blank Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:03 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102002.D Vial: 2
Acq On : 2 Jan 2007 12:10 pm Operator: mcm
Sample : RT Marker Mix c8-c40 Inst : GCO
Misc : 22-GC-44J Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.29	75554295	540.963	mg/L
Spiked Amount 75.000		Recovery =	721.28%	
5) S Triacontane	20.27	74449665	522.302	mg/L
Spiked Amount 75.000		Recovery =	696.40%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	408298892	2465.860	mg/L
2) H DRO (c13 - c22)	10.00	967809315	6196.426	mg/L
3) H HRO (c23 - c36)	19.00	889059926	6324.856	mg/L

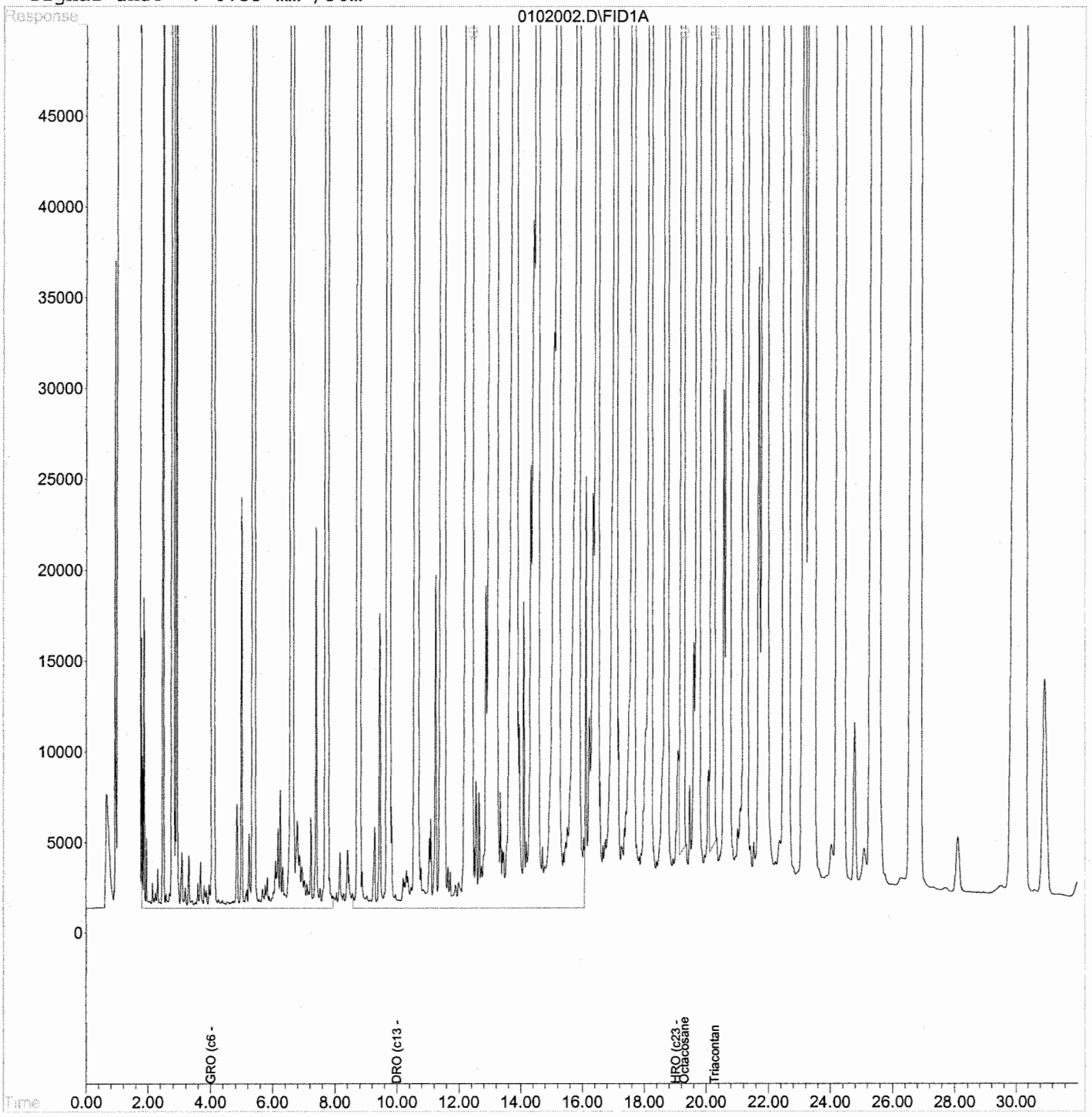
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102002.D Vial: 2
Acq On : 2 Jan 2007 12:10 pm Operator: mcm
Sample : RT Marker Mix c8-c40 Inst : GCO
Misc : 22-GC-44J Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Calibration Verification Report

Calibration ID: CAL1243
Method ID: MJ411
DataFile: C:\HPCHEM\2\DATA\010207\0102003.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Gasoline Range Organics (C6-C12)		TRG	AverageRF	15		1.7E+5	1.9E+5	14.5			
Diesel Range Organics (C13-C22)		MS	AverageRF	15		1.6E+5	1.7E+5	11.3			
Heavy Range Organics (C24-C36)		TRG	AverageRF	15		1.4E+5	1.5E+5	9.3			
Octacosane		SURR	AverageRF	30		1.4E+5	1.8E+5	29.2			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	16.1

1 Compounds Failed CCV Criteria

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	01/03/2007

Analysis Lot:	DWG0700106	**Prep Lot:**		**Report Group:**
Analysis Method:	8015B	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:			
		Method ID:	MJ411
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102003.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 12:50	**Quant Date:**	01/03/2007 11:04	**Vial:**	3
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700106-1			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21		13533230	96.90		50-140	NA	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		94792088**m**	572.48			
Diesel Range Organics (C13-C22	10.00		86915416**m**	556.48			
Heavy Range Organics (C24-C3	19.00		76789981**m**	546.29			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102003.D Vial: 3
Acq On : 2 Jan 2007 12:50 pm Operator: mcm
Sample : 500ppm Gas/Dsl/Oil CCV Std Inst : GCO
Misc : 22-GC-65h Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.21	13533230	96.897 mg/L
Spiked Amount 75.000	Recovery =		129.20%
5) S Triacontane	20.19	12678107	88.943 mg/L
Spiked Amount 75.000	Recovery =		118.59%
Target Compounds			
1) H GRO (c6 - c12)	4.00	94792088	572.483 mg/L
2) H DRO (c13 - c22)	10.00	86915416	556.478 mg/L
3) H HRO (c23 - c36)	19.00	76789981	546.291 mg/L

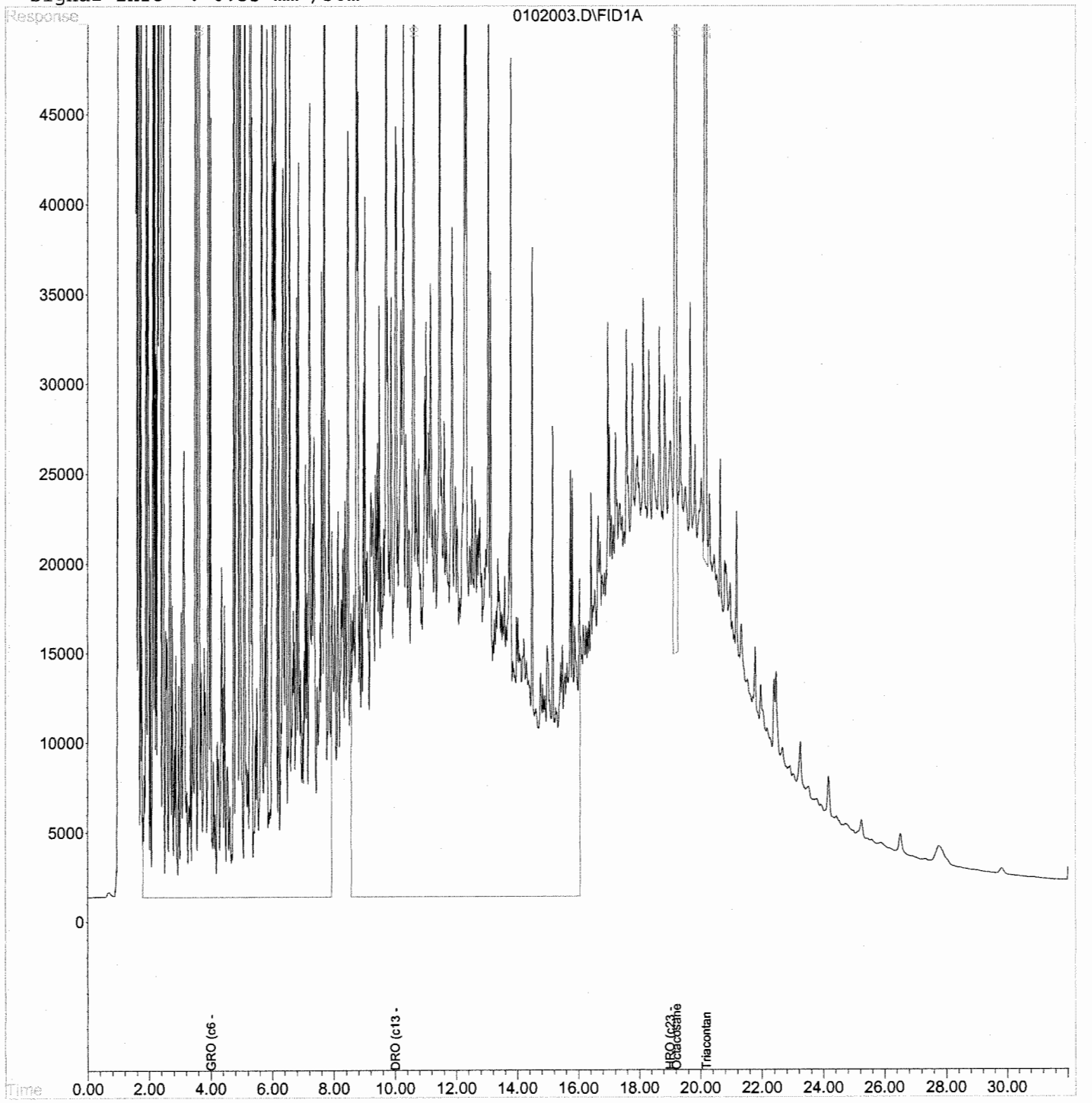
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102003.D Vial: 3
Acq On : 2 Jan 2007 12:50 pm Operator: mcm
Sample : 500ppm Gas/Dsl/Oil CCV Std Inst : GCO
Misc : 22-GC-65h Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Calibration Verification Report

Calibration ID: CAL1243
Method ID: MJ411
DataFile: C:\HPCHEM\2\DATA\010207\0102014.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Gasoline Range Organics (C6-C12)		TRG	AverageRF	15		1.7E+5	1.8E+5	8.0			
Diesel Range Organics (C13-C22)		MS	AverageRF	15		1.6E+5	1.7E+5	6.8			
Heavy Range Organics (C24-C36)		TRG	AverageRF	15		1.4E+5	1.4E+5	2.3			
Octacosane		SURR	AverageRF	30		1.4E+5	1.7E+5	20.7			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	9.4

1 Compounds Failed CCV Criteria

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	01/03/2007

Analysis Lot:	DWG0700106	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:			
		Method ID:	MJ411
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102014.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 22:32	**Quant Date:**	01/03/2007 11:04	**Vial:**	14
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0700106-2			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.23		21070316	150.86		50-140	NA	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		178755072**m**	1,080			
Diesel Range Organics (C13-C22	10.00		166786706**m**	1,068			
Heavy Range Organics (C24-C3	19.00		143841983**m**	1,023			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, bnt MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102014.D Vial: 14
Acq On : 2 Jan 2007 10:32 pm Operator: mcm
Sample : 1000ppm Gas/Dsl/Oil CCV Std Inst : GCO
Misc : 22-GC-65i Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

mcm 1/3/2007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.23	21070316	150.862	mg/L
Spiked Amount 75.000	Recovery =		201.15%	
5) S Triacontane	20.21	21028290	147.524	mg/L
Spiked Amount 75.000	Recovery =		196.70%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	178755072	1079.564	mg/L
2) H DRO (c13 - c22)	10.00	166786706	1067.857	mg/L
3) H HRO (c23 - c36)	19.00	143841983	1023.305	mg/L

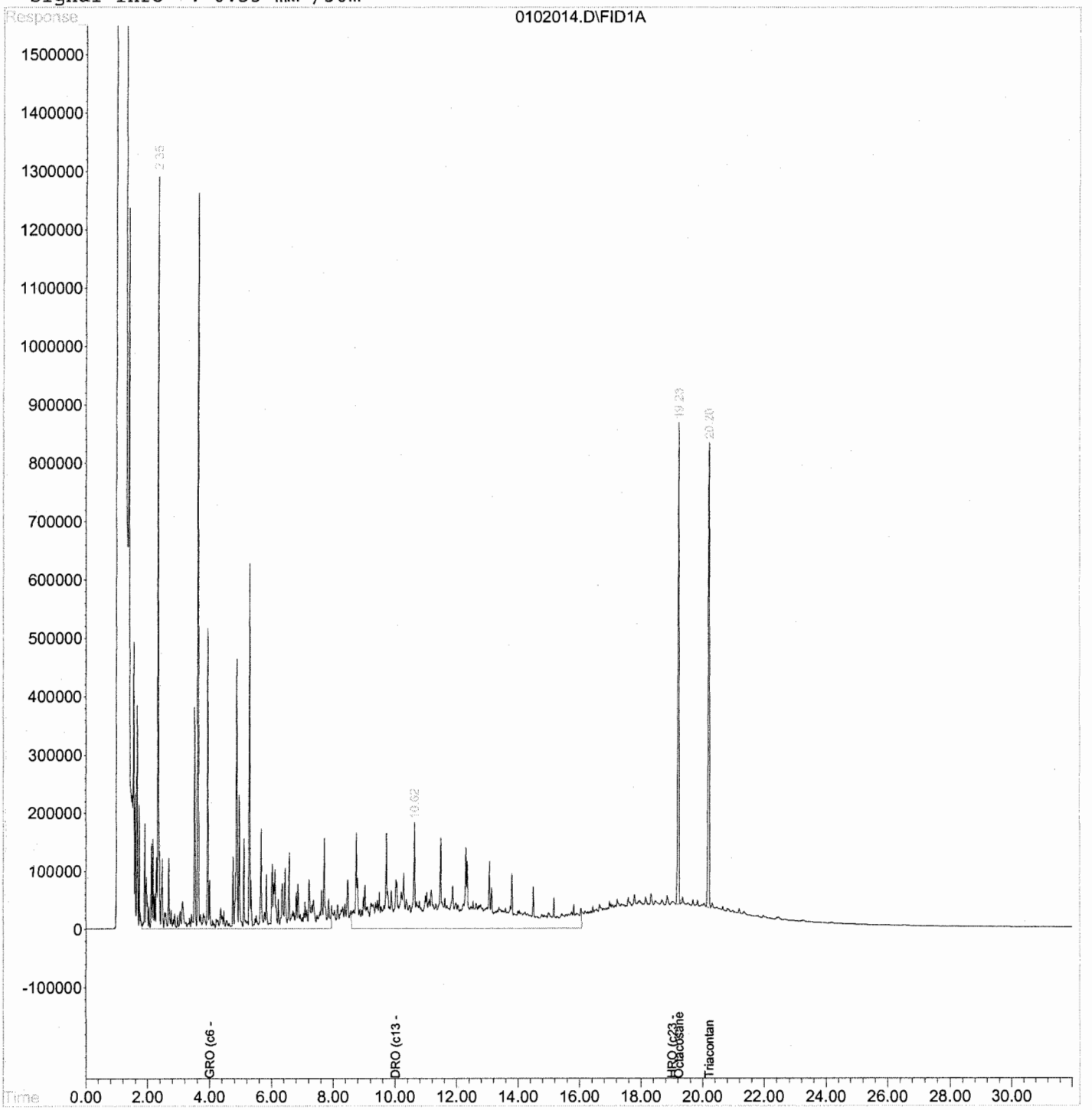
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102014.D Vial: 14
Acq On : 2 Jan 2007 10:32 pm Operator: mcm
Sample : 1000ppm Gas/Dsl/Oil CCV Std Inst : GCO
Misc : 22-GC-65i Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



QC Sample Data

Batch ID.: DWG0700105

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	01/03/2007

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76039	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:			
		Method ID:	MJ411
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 15:48	**Quant Date:**	01/03/2007 11:09	**Vial:**	4
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0700105-4			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13239432**m**	94.79	126	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		308056**m**	1.86	0.50	U	
Diesel Range Organics (C13-C22	10.00		121378**m**	0.7770	0.44	U	
Heavy Range Organics (C24-C3	19.00		551713**m**	3.93	0.50	U	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102004.D Vial: 4
Acq On : 2 Jan 2007 3:48 pm Operator: mcm
Sample : wmb 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:09 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 11:08:00 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/2007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) S Octacosane	19.21	13239432	94.793	mg/L	m
Spiked Amount 75.000	Recovery =		126.39%		
5) S Triacontane	20.18	12464075	87.442	mg/L	m
Spiked Amount 75.000	Recovery =		116.59%		
Target Compounds					
1) H GRO (c6 - c12)	4.00	308056	1.860	mg/L	
2) H DRO (c13 - c22)	10.00	121378	0.777	mg/L	
3) H HRO (c23 - c36)	19.00	551713	3.925	mg/L	m

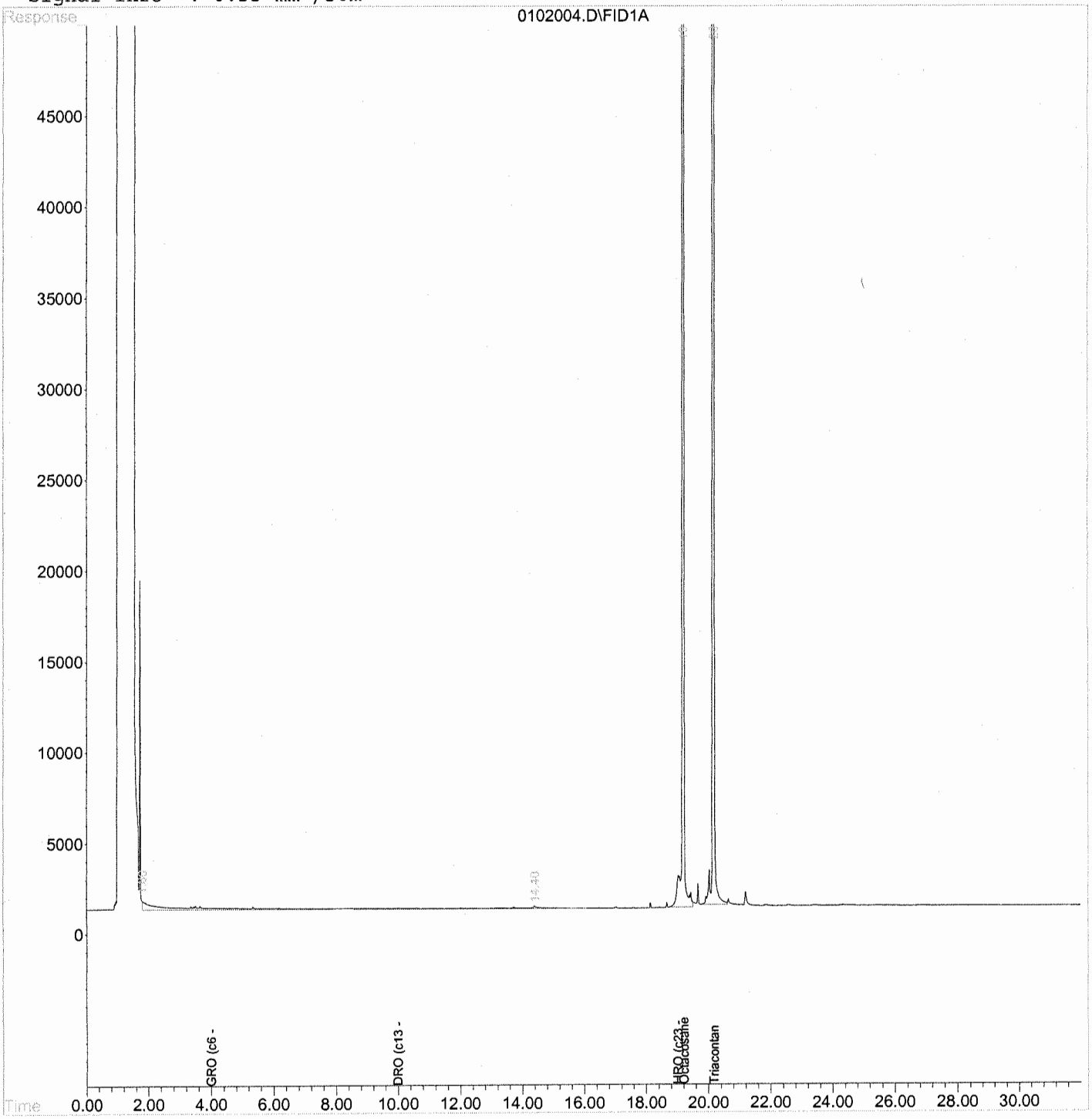
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102004.D Vial: 4
Acq On : 2 Jan 2007 3:48 pm Operator: mcm
Sample : wmb 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:09 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 11:08:00 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

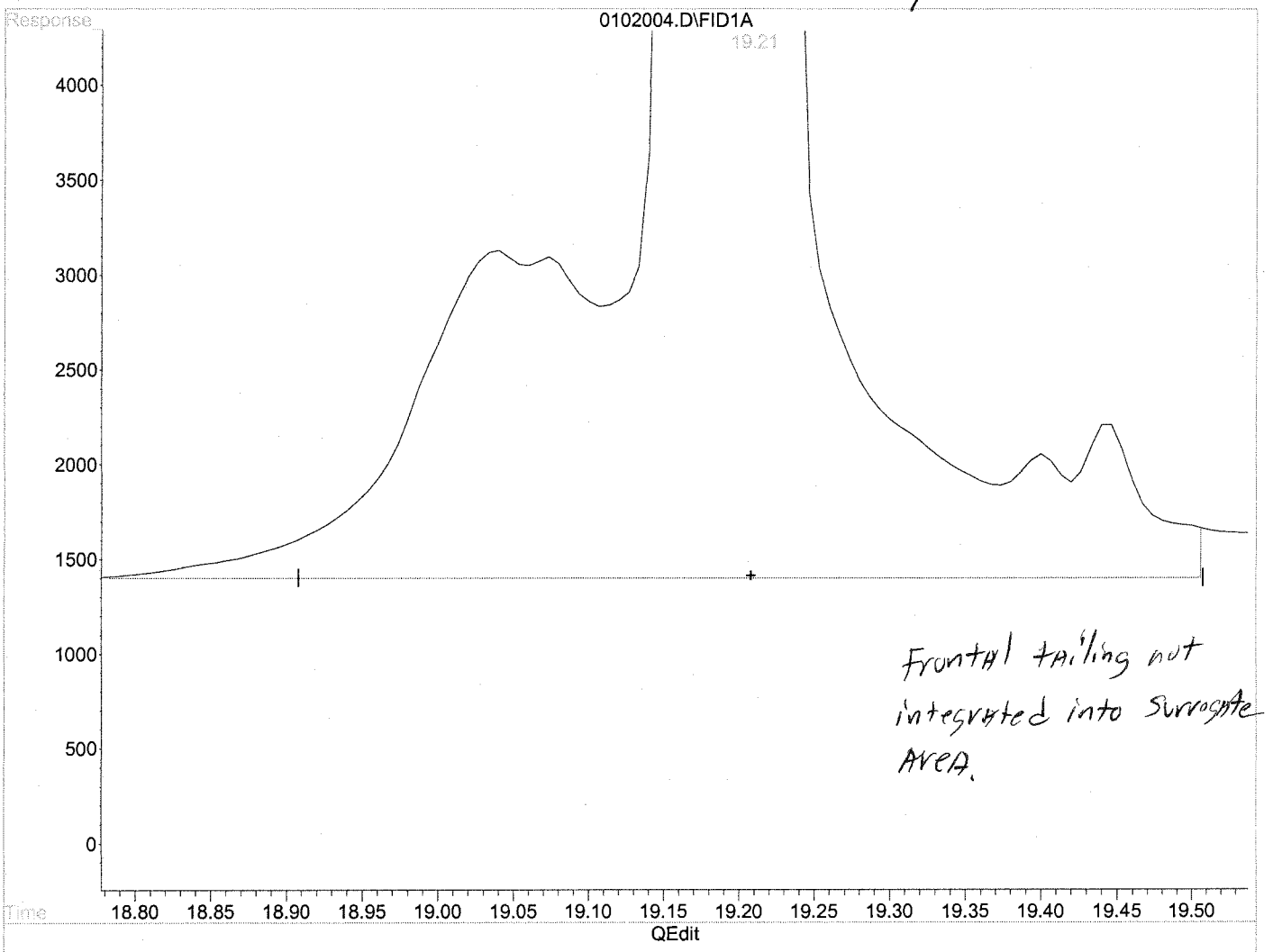


Quantitation Report (Qedit)

Data File : C:\HPCHEM\2\DATA\010207\0102004.D Vial: 4
Acq On : 2 Jan 2007 3:48 pm Operator: mcm
Sample : wmb 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:08 2007 Quant Results File: FPO61201.RES

Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 11:08:00 2007
Response via : Multiple Level Calibration

MCM 1/3/007



Frontal tailing not integrated into Surrogate Area.

(4) Octacosane (S)

19.21min 94.793mg/L m

response 13239432

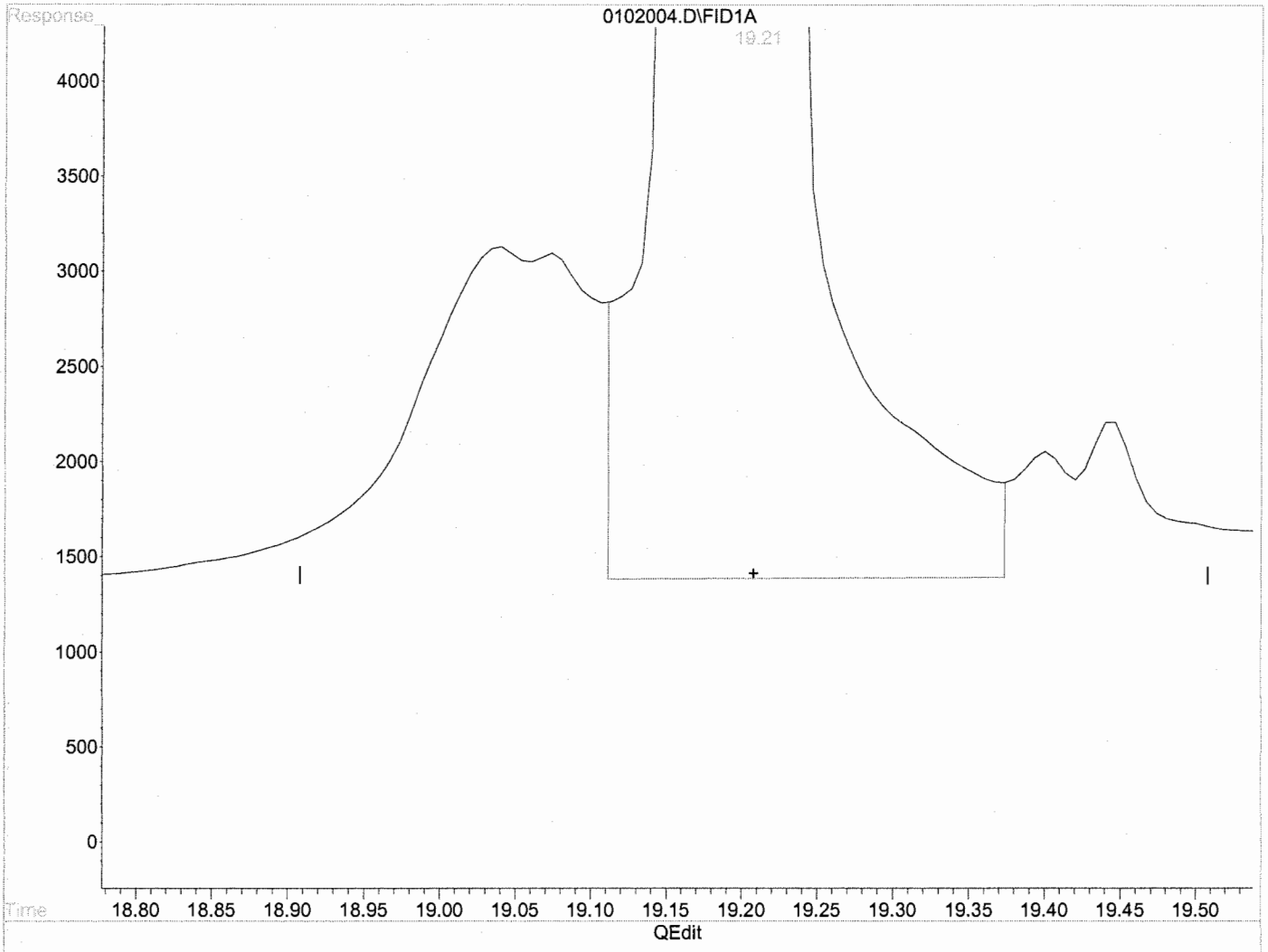
MCM 1/3/07

(+) = Expected Retention Time
0102004.D FPO61201.M Wed Jan 03 11:09:11 2007

Quantitation Report (Qedit)

Data File : C:\HPCHEM\2\DATA\010207\0102004.D Vial: 4
Acq On : 2 Jan 2007 3:48 pm Operator: mcm
Sample : wmb 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:08 2007 Quant Results File: FPO61201.RES

Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 11:08:00 2007
Response via : Multiple Level Calibration



(4) Octacosane (S)

19.21min 93.507mg/L

response 13059807

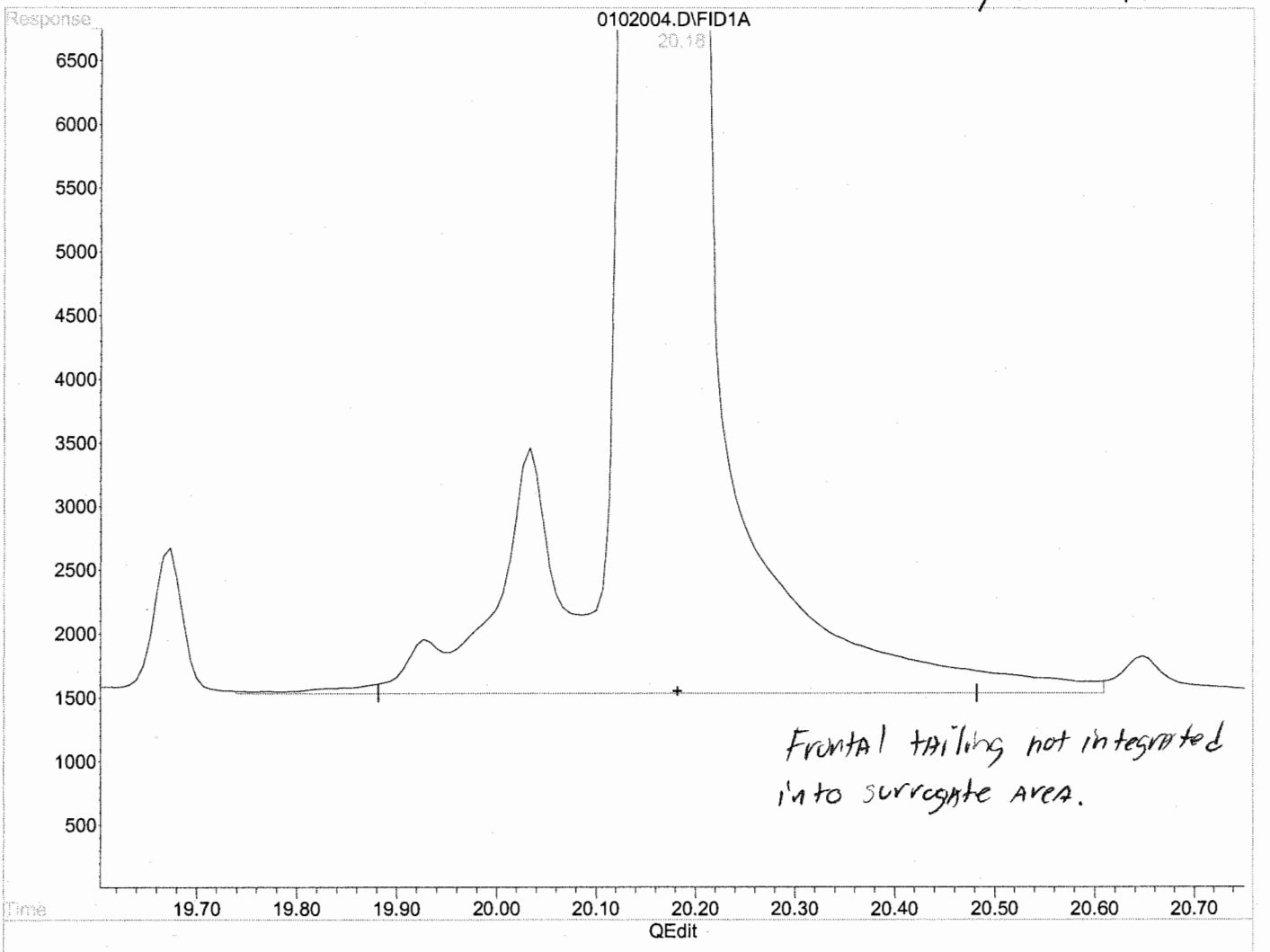
(+) = Expected Retention Time
0102004.D FPO61201.M Wed Jan 03 11:08:52 2007

Quantitation Report (Qedit)

Data File : C:\HPCHEM\2\DATA\010207\0102004.D Vial: 4
Acq On : 2 Jan 2007 3:48 pm Operator: mcm
Sample : wmb 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:08 2007 Quant Results File: FPO61201.RES

Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 11:08:00 2007
Response via : Multiple Level Calibration

MCM 1/3/2007



(5) Triacontane (S)

20.18min 87.442mg/L m

response 12464075

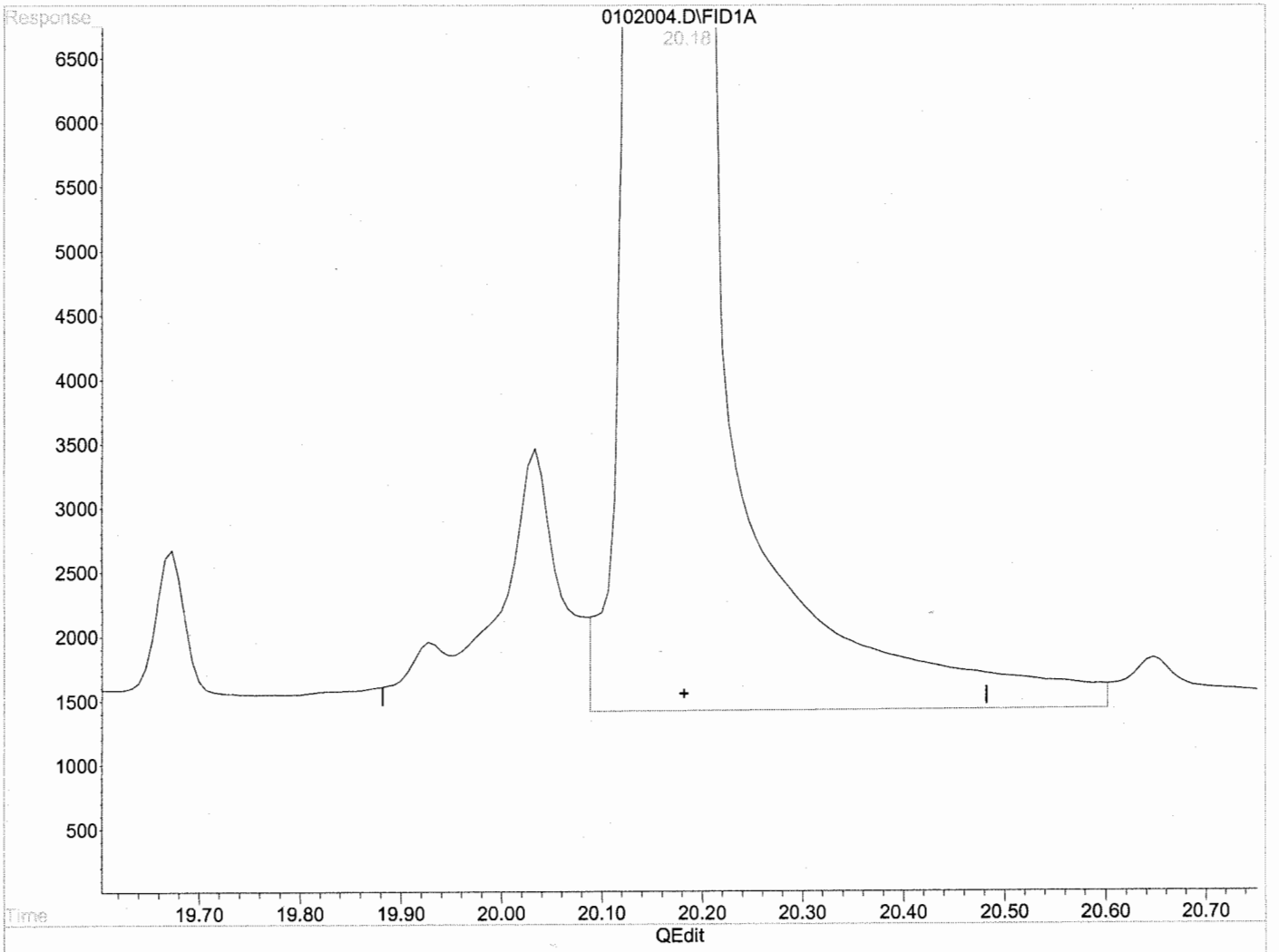
MCM 1/3/07

(+) = Expected Retention Time
0102004.D FPO61201.M Wed Jan 03 11:09:37 2007

Quantitation Report (Qedit)

Data File : C:\HPCHEM\2\DATA\010207\0102004.D Vial: 4
Acq On : 2 Jan 2007 3:48 pm Operator: mcm
Sample : wmb 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:08 2007 Quant Results File: FPO61201.RES

Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 11:08:00 2007
Response via : Multiple Level Calibration



(5) Triacontane (S)

20.18min 87.076mg/L

response 12411863

(+) = Expected Retention Time
0102004.D FPO61201.M Wed Jan 03 11:09:22 2007

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102004.D Vial: 4
Acq On : 2 Jan 2007 3:48 pm Operator: mcm
Sample : wmb 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:08 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 11:08:00 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

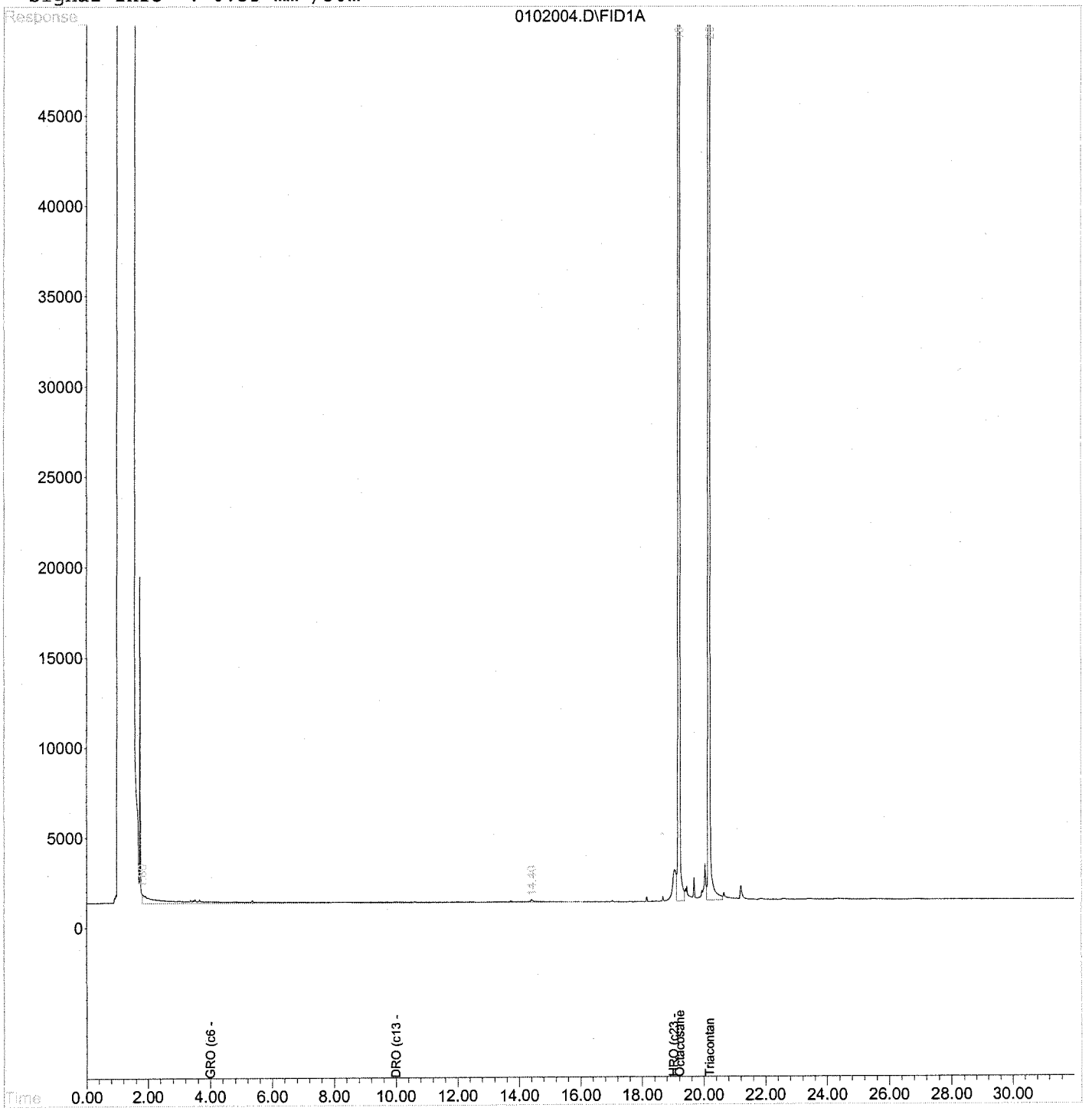
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.21	13059807	93.507	mg/L
Spiked Amount 75.000	Recovery =		124.68%	
5) S Triacontane	20.18	12411863	87.076	mg/L
Spiked Amount 75.000	Recovery =		116.10%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	308056	1.860	mg/L
2) H DRO (c13 - c22)	10.00	121378	0.777	mg/L
3) H HRO (c23 - c36)	19.00	783550	5.574	mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\010207\0102004.D Vial: 4
Acq On : 2 Jan 2007 3:48 pm Operator: mcm
Sample : wmb 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:08 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 11:08:00 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1401

Data File:	C:\HPCHEM\2\DATA\010207\0102005.D	**Instrument:**	GCO
Lab ID:	DWG0700105-3	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	mg/L
Prod Code:	8015B	**Acqu Date:**	01/02/2007 16:28
Matrix:	WATER	**Quant Date:**	01/03/2007 11:04

	Lab Control Spike			%Rec
Parameter Name	**Result**	**Expected**	**%Rec**	**Limits**
Diesel Range Organics (C13-(	23.2	30.0	77	50-130

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	01/03/2007

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76038	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:			
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102005.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 16:28	**Quant Date:**	01/03/2007 11:04	**Vial:**	5
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0700105-3			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13373236	95.75	128	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		8206256**m**	49.56	4.96		
Diesel Range Organics (C13-C22	10.00		36247869**m**	232.08	23.2		
Heavy Range Organics (C24-C3	19.00		1275004**m**	9.07	0.907	J	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102005.D Vial: 5
Acq On : 2 Jan 2007 4:28 pm Operator: mcm
Sample : wlcs 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.21	13373236	95.751	mg/L
Spiked Amount 75.000	Recovery =		127.67%	
5) S Triacontane	20.18	12753843	89.475	mg/L
Spiked Amount 75.000	Recovery =		119.30%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	8206256	49.560	mg/L
2) H DRO (c13 - c22)	10.00	36247869	232.078	mg/L
3) H HRO (c23 - c36)	19.00	1275004	9.070	mg/L

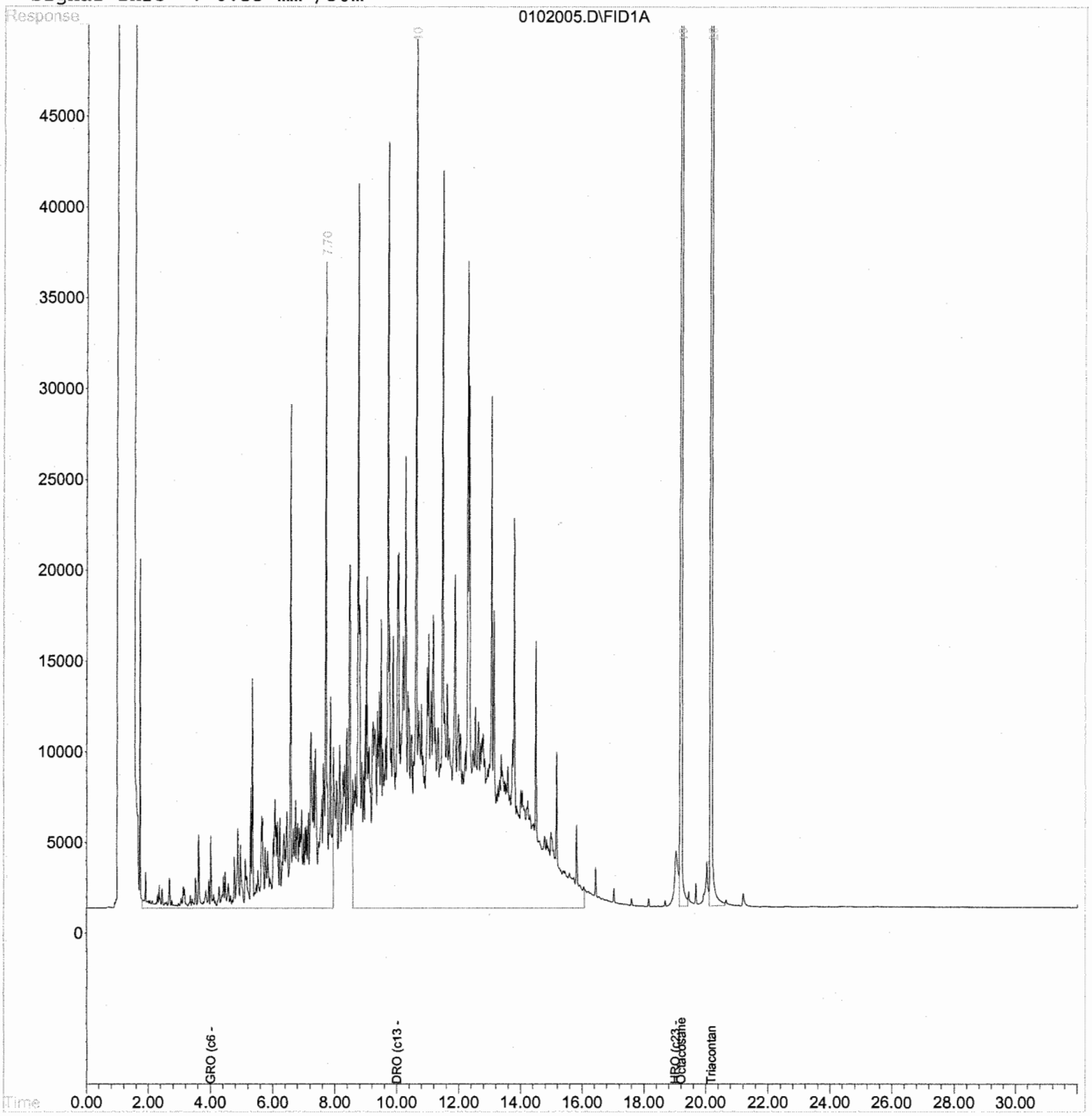
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102005.D Vial: 5
Acq On : 2 Jan 2007 4:28 pm Operator: mcm
Sample : wlcs 1/2/7 Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Matrix Spike Summary Report

Matrix Spike Information ***ListJoinID :*** LJ1401

Data File:	C:\HPCHEM\2\DATA\010207\0102007.D	**Instrument:**	GCO
Lab ID:	DWG0700105-1	**Dilution:**	1.00
Client ID:	Matrix Spike	**Units:**	mg/L
Prod Code:	8015B	**Acqu Date:**	01/02/2007 17:50
Matrix:	WATER	**Quant Date:**	01/03/2007 11:04

Duplicate Matrix Spike Information

Data File:	C:\HPCHEM\2\DATA\010207\0102008.D	**Instrument:**	GCO
Lab ID:	DWG0700105-2	**Dilution:**	1.00
Client ID:	Duplicate Matrix Spike	**Units:**	mg/L
Prod Code:	8015B	**Acqu Date:**	01/02/2007 18:30
Matrix:	WATER	**Quant Date:**	01/03/2007 11:04

Sample Reference Information

Data File:	C:\HPCHEM\2\DATA\010207\0102006.D	**Instrument:**	GCO
Lab ID:	D0602139-002	**Dilution:**	1.00
Client ID:	T-54-GW-11	**Units:**	mg/L
Prod Code:	8015B	**Acqu Date:**	01/02/2007 17:09
Matrix:	WATER	**Quant Date:**	01/03/2007 11:04

Parameter Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Diesel Range Organics (C13-(	1.8	25.1	30.0	78	25.7	30.0	80	50-130	2	30
Octacosane				133			127	50-140		

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the ealculation which have not been rounded.

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	01/03/2007

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76036	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:			
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102007.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 17:50	**Quant Date:**	01/03/2007 11:04	**Vial:**	7
Run Type:	MS			**Dilution:**	1.0
Lab ID:	DWG0700105-1 -- D0602139-002MS			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13937400	99.79	133	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		8447354**m**	51.02	5.10		
Diesel Range Organics (C13-C22	10.00		39234539**m**	251.20	25.1		
Heavy Range Organics (C24-C3	19.00		2353069**m**	16.74	1.67		

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102007.D Vial: 7
Acq On : 2 Jan 2007 5:50 pm Operator: mcm
Sample : D0602139-002.01ms 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/2007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.21	13937400	99.791 mg/L
Spiked Amount 75.000		Recovery =	133.05%
5) S Triacontane	20.19	13396573	93.984 mg/L
Spiked Amount 75.000		Recovery =	125.31%
Target Compounds			
1) H GRO (c6 - c12)	4.00	8447354	51.017 mg/L
2) H DRO (c13 - c22)	10.00	39234539	251.200 mg/L
3) H HRO (c23 - c36)	19.00	2353069	16.740 mg/L

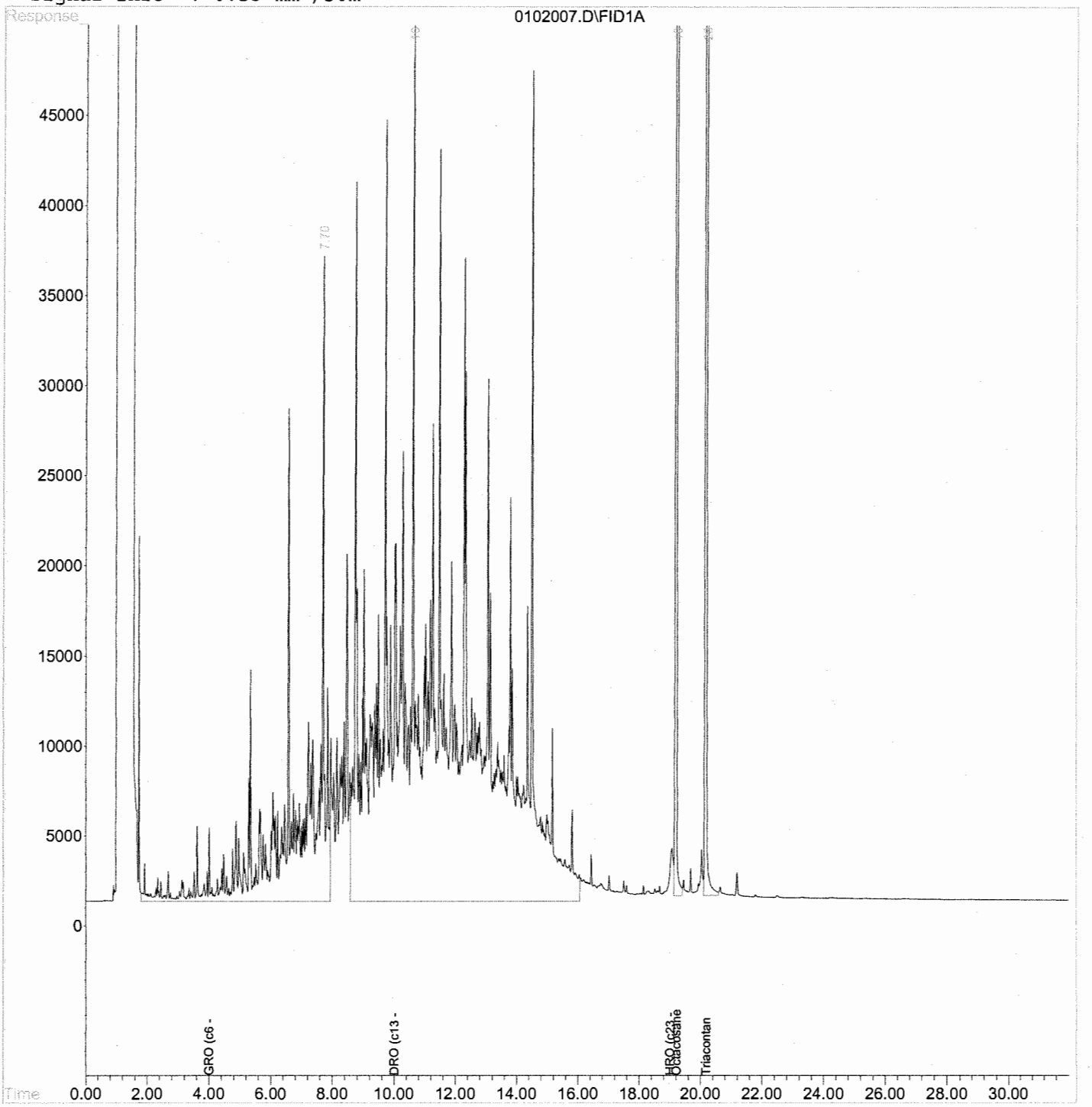
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102007.D Vial: 7
Acq On : 2 Jan 2007 5:50 pm Operator: mcm
Sample : D0602139-002.01ms 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	01/03/2007

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76037	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:			
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102008.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 18:30	**Quant Date:**	01/03/2007 11:04	**Vial:**	8
Run Type:	DMS			**Dilution:**	1.0
Lab ID:	DWG0700105-2 -- D0602139-002DMS			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13327554	95.42	127	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		8637920**m**	52.17	5.22		
Diesel Range Organics (C13-C22	10.00		40123460**m**	256.89	25.7		
Heavy Range Organics (C24-C3	19.00		2803060**m**	19.94	1.99		

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Mauual integration performed
d: Compound manually deleted
NR: Analyte not reported from this aualysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102008.D Vial: 8
Acq On : 2 Jan 2007 6:30 pm Operator: mcm
Sample : D0602139-002.06dms 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.21	13327554	95.424 mg/L
Spiked Amount 75.000	Recovery =		127.23%
5) S Triacontane	20.19	12870497	90.293 mg/L
Spiked Amount 75.000	Recovery =		120.39%
Target Compounds			
1) H GRO (c6 - c12)	4.00	8637920	52.167 mg/L
2) H DRO (c13 - c22)	10.00	40123460	256.892 mg/L
3) H HRO (c23 - c36)	19.00	2803060	19.941 mg/L

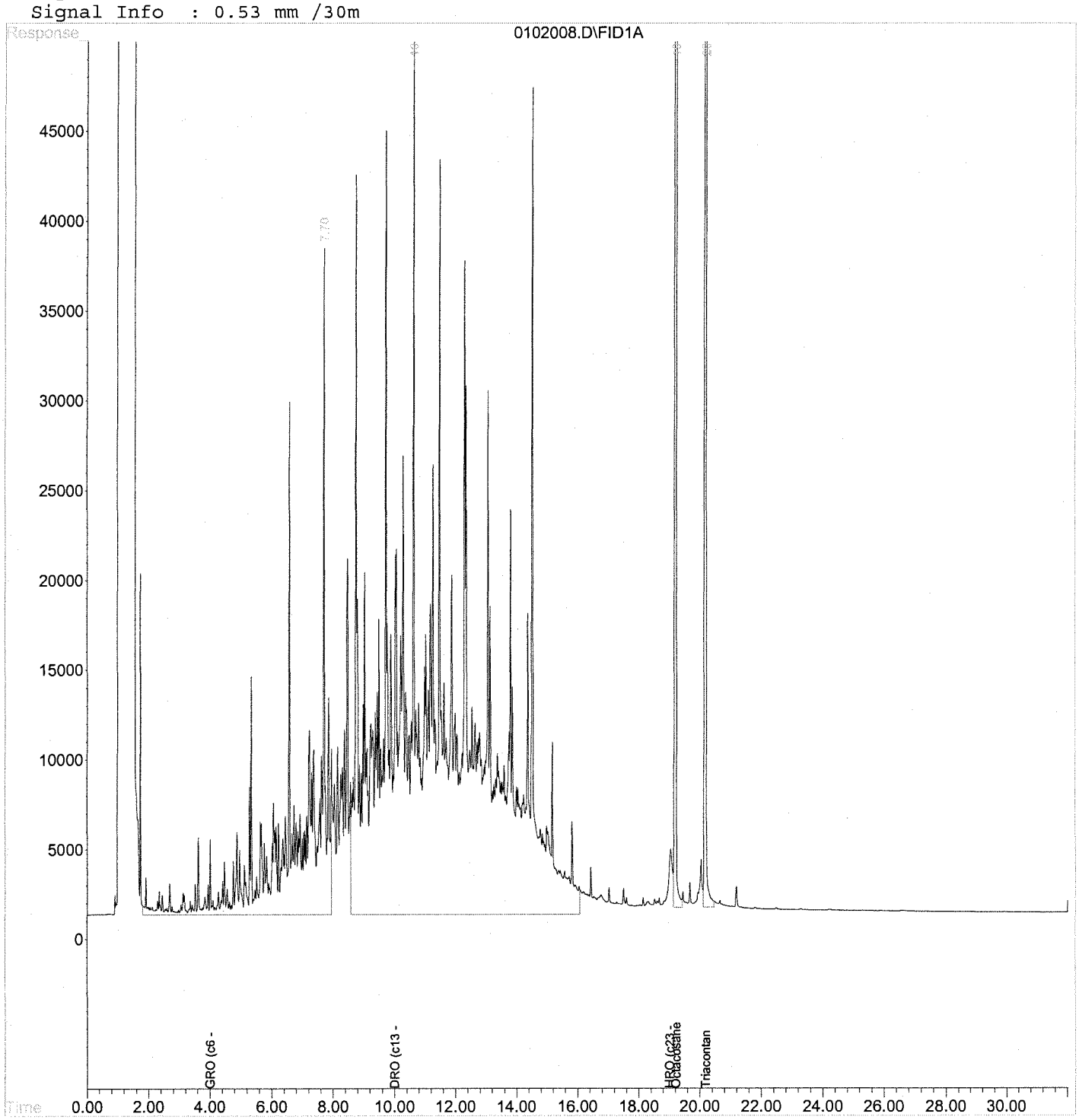
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102008.D Vial: 8
Acq On : 2 Jan 2007 6:30 pm Operator: mcm
Sample : D0602139-002.06dms 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Sample Raw Data

Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	D0602139
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76030	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102006.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 17:09	**Quant Date:**	01/03/2007 11:04	**Vial:**	6
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-002			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13664397	97.84	130	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		558306**m**	3.37	0.50	U	
Diesel Range Organics (C13-C22	10.00		2748047**m**	17.59	1.8		
Heavy Range Organics (C24-C3	19.00		2351500**m**	16.73	1.7		

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Aceeptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102006.D Vial: 6
Acq On : 2 Jan 2007 5:09 pm Operator: mcm
Sample : D0602139-002.02 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

JLM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.21	13664397	97.836 mg/L
Spiked Amount 75.000	Recovery =	130.45%	
5) S Triacontane	20.18	13108317	91.961 mg/L
Spiked Amount 75.000	Recovery =	122.61%	
Target Compounds			
1) H GRO (c6 - c12)	4.00	558306	3.372 mg/L
2) H DRO (c13 - c22)	10.00	2748047	17.594 mg/L
3) H HRO (c23 - c36)	19.00	2351500	16.729 mg/L

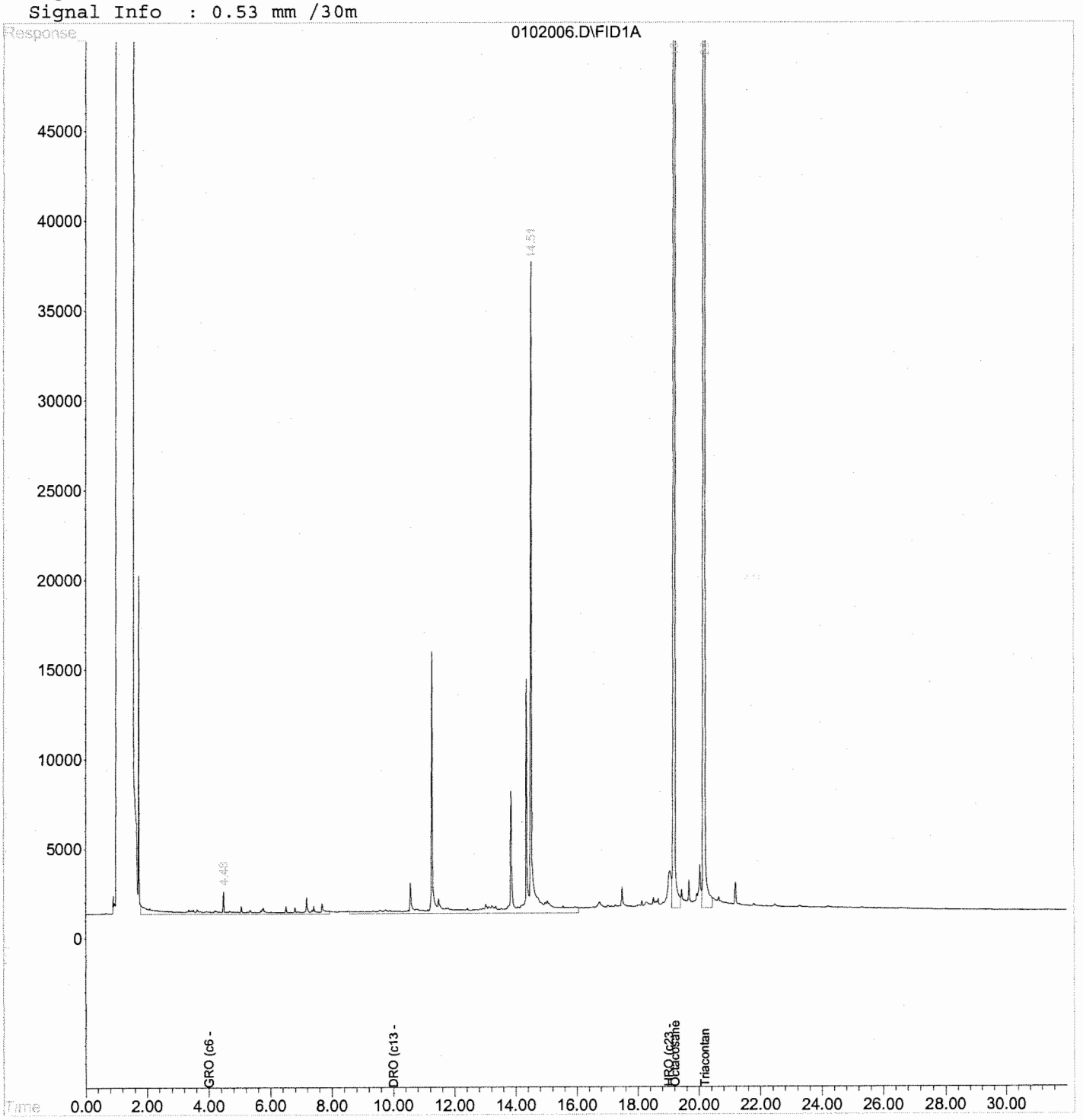
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102006.D Vial: 6
Acq On : 2 Jan 2007 5:09 pm Operator: mcm
Sample : D0602139-002.02 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	D0602139
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76031	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102009.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 19:10	**Quant Date:**	01/03/2007 11:04	**Vial:**	9
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-003			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13208835	94.57	126	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		311194**m**	1.88	0.50	U	
Diesel Range Organics (C13-C22	10.00		87720**m**	0.5620	0.44	U	
Heavy Range Organics (C24-C3	19.00		452809**m**	3.22	0.50	U	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102009.D Vial: 9
Acq On : 2 Jan 2007 7:10 pm Operator: mcm
Sample : D0602139-003.05 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

JCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.21	13208835	94.574 mg/L
Spiked Amount 75.000	Recovery =		126.10%
5) S Triacontane	20.18	12587540	88.308 mg/L
Spiked Amount 75.000	Recovery =		117.74%
Target Compounds			
1) H GRO (c6 - c12)	4.00	311194	1.879 mg/L
2) H DRO (c13 - c22)	10.00	87720	0.562 mg/L
3) H HRO (c23 - c36)	19.00	452809	3.221 mg/L

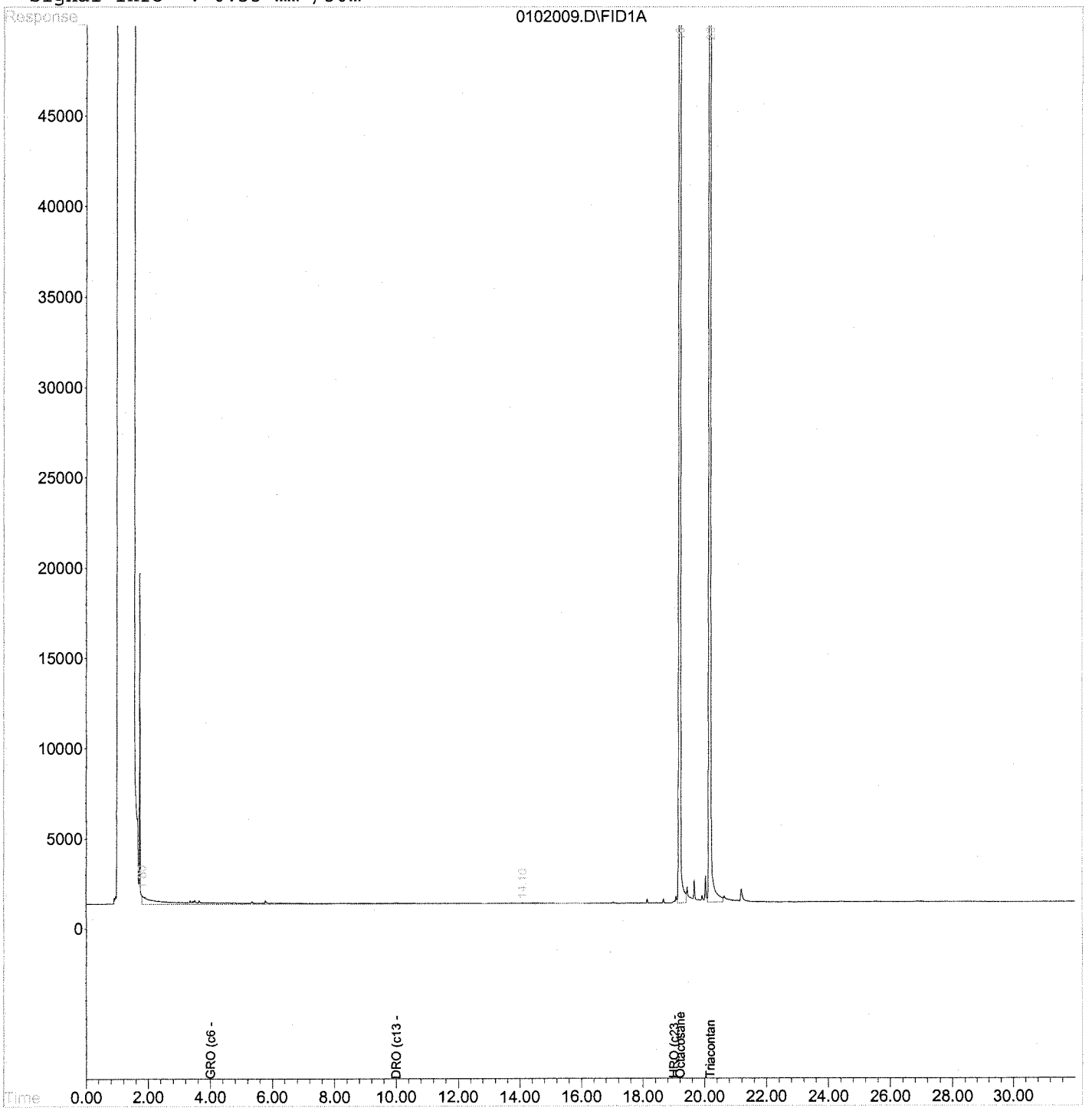
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102009.D Vial: 9
Acq On : 2 Jan 2007 7:10 pm Operator: mcm
Sample : D0602139-003.05 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	D0602139
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76032	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102010.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 19:51	**Quant Date:**	01/03/2007 11:04	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-004			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13267623	95.00	127	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		381676**m**	2.31	0.50	U	
Diesel Range Organics (C13-C22	10.00		148491**m**	0.9510	0.44	U	
Heavy Range Organics (C24-C3	19.00		483831**m**	3.44	0.50	U	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102010.D Vial: 10
Acq On : 2 Jan 2007 7:51 pm Operator: mcm
Sample : D0602139-004.05 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.21	13267623	94.995	mg/L
Spiked Amount 75.000	Recovery =		126.66%	
5) S Triacontane	20.18	12635230	88.643	mg/L
Spiked Amount 75.000	Recovery =		118.19%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	381676	2.305	mg/L
2) H DRO (c13 - c22)	10.00	148491	0.951	mg/L
3) H HRO (c23 - c36)	19.00	483831	3.442	mg/L

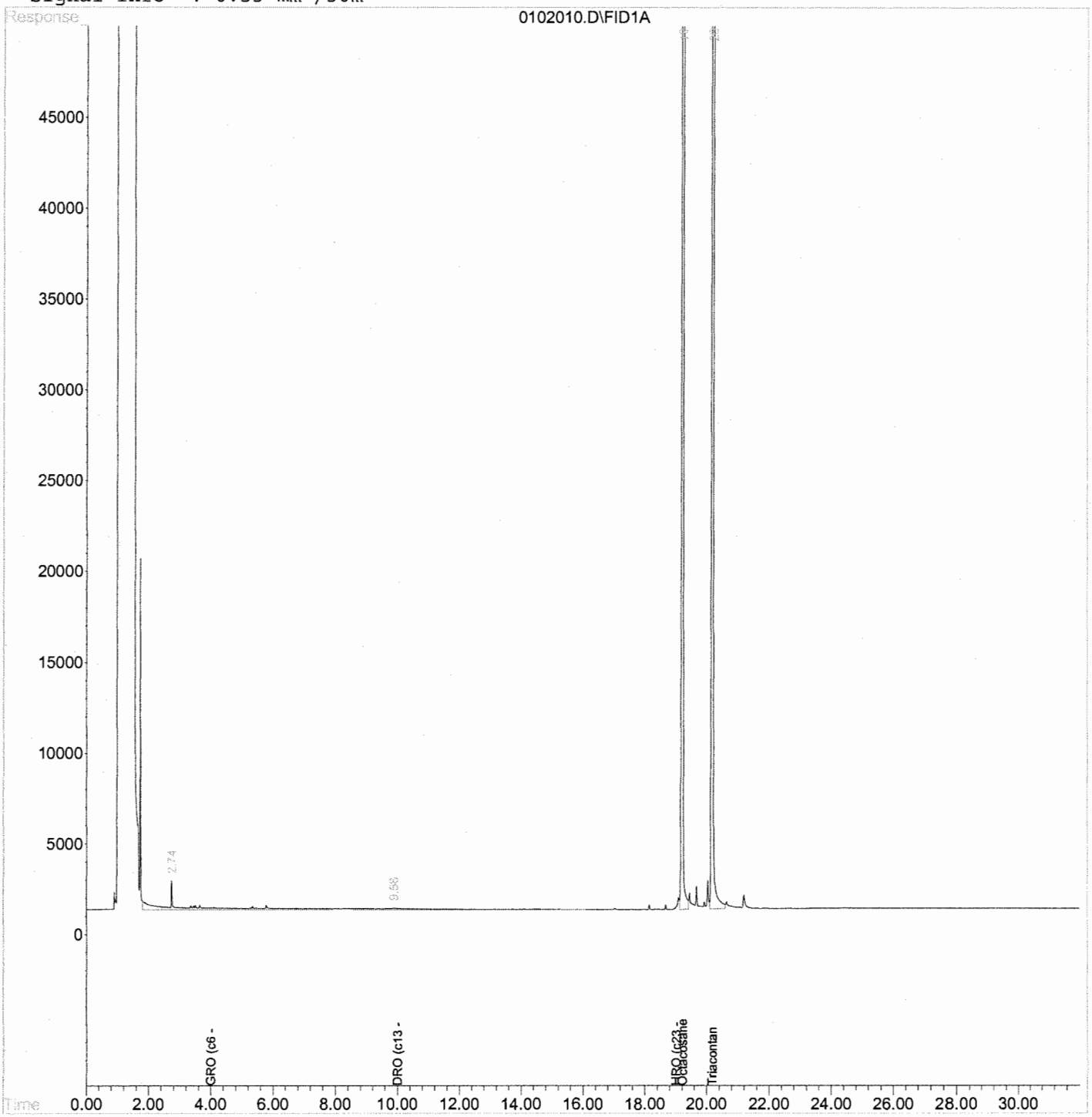
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102010.D Vial: 10
Acq On : 2 Jan 2007 7:51 pm Operator: mcm
Sample : D0602139-004.05 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	D0602139
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76033	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102011.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 20:31	**Quant Date:**	01/03/2007 11:04	**Vial:**	11
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-006			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13364265	95.69	128	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		992020**m**	5.99	0.60	J	
Diesel Range Organics (C13-C22	10.00		7331800**m**	46.94	4.7		
Heavy Range Organics (C24-C3	19.00		5012566**m**	35.66	3.6		

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102011.D Vial: 11
Acq On : 2 Jan 2007 8:31 pm Operator: mcm
Sample : D0602139-006.05 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

JMcM 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.21	13364265	95.687	mg/L
Spiked Amount 75.000	Recovery =		127.58%	
5) S Triacontane	20.18	12858174	90.207	mg/L
Spiked Amount 75.000	Recovery =		120.28%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	992020	5.991	mg/L
2) H DRO (c13 - c22)	10.00	7331800	46.942	mg/L
3) H HRO (c23 - c36)	19.00	5012566	35.660	mg/L

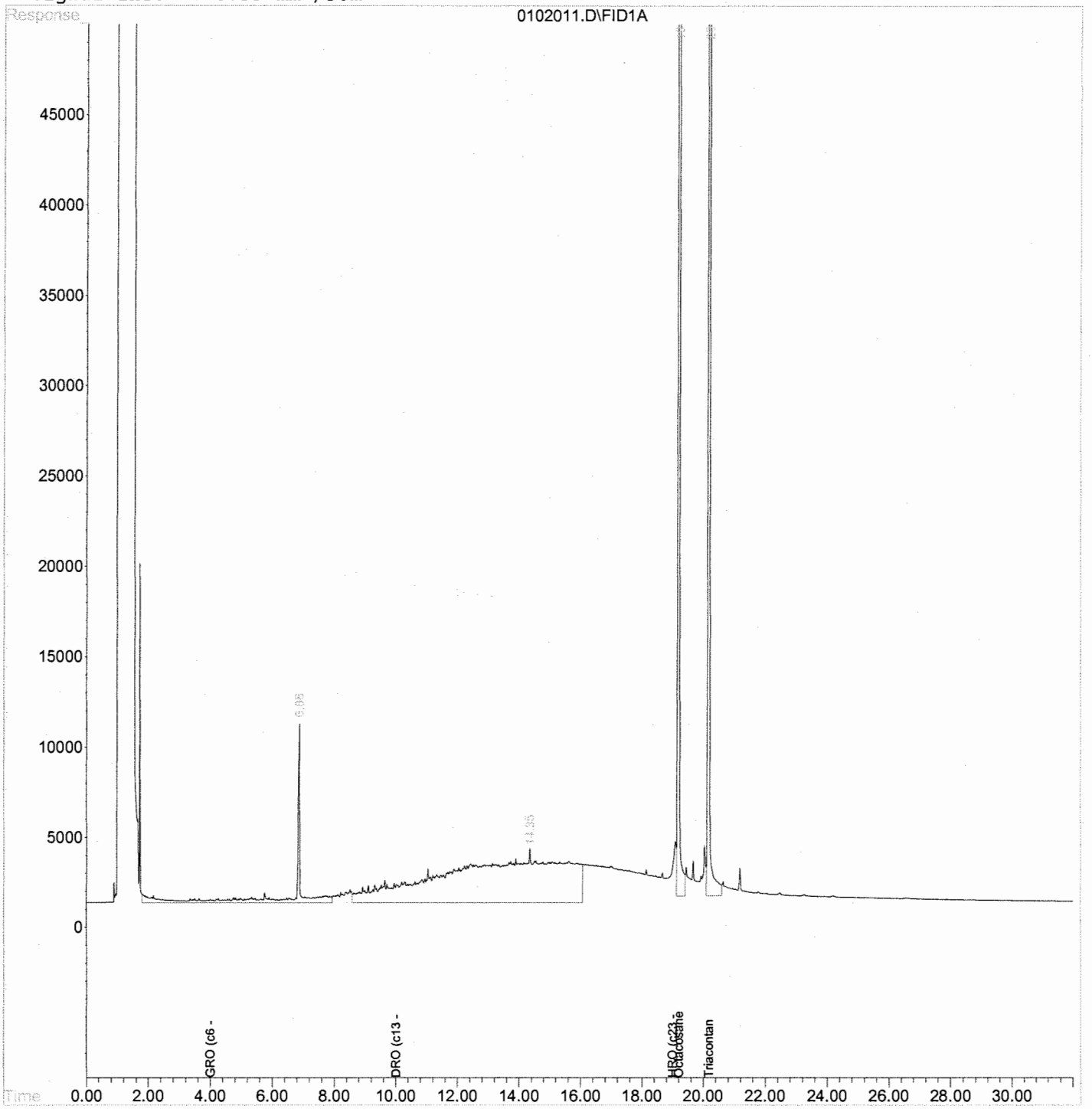
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102011.D Vial: 11
Acq On : 2 Jan 2007 8:31 pm Operator: mcm
Sample : D0602139-006.05 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	D0602139
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76034	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102012.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 21:12	**Quant Date:**	01/03/2007 11:04	**Vial:**	12
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-007			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13535139	96.91	129	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		1132200**m**	6.84	0.68	J	
Diesel Range Organics (C13-C22	10.00		1295144**m**	8.29	0.83	J	
Heavy Range Organics (C24-C3	19.00		1700400**m**	12.10	1.2		

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102012.D Vial: 12
Acq On : 2 Jan 2007 9:12 pm Operator: mcm
Sample : D0602139-007.05 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

MCM 1/3/2007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	19.21	13535139	96.911 mg/L
Spiked Amount 75.000	Recovery =	129.21%	
5) S Triacontane	20.19	13005955	91.243 mg/L
Spiked Amount 75.000	Recovery =	121.66%	
Target Compounds			
1) H GRO (c6 - c12)	4.00	1132200	6.838 mg/L
2) H DRO (c13 - c22)	10.00	1295144	8.292 mg/L
3) H HRO (c23 - c36)	19.00	1700400	12.097 mg/L

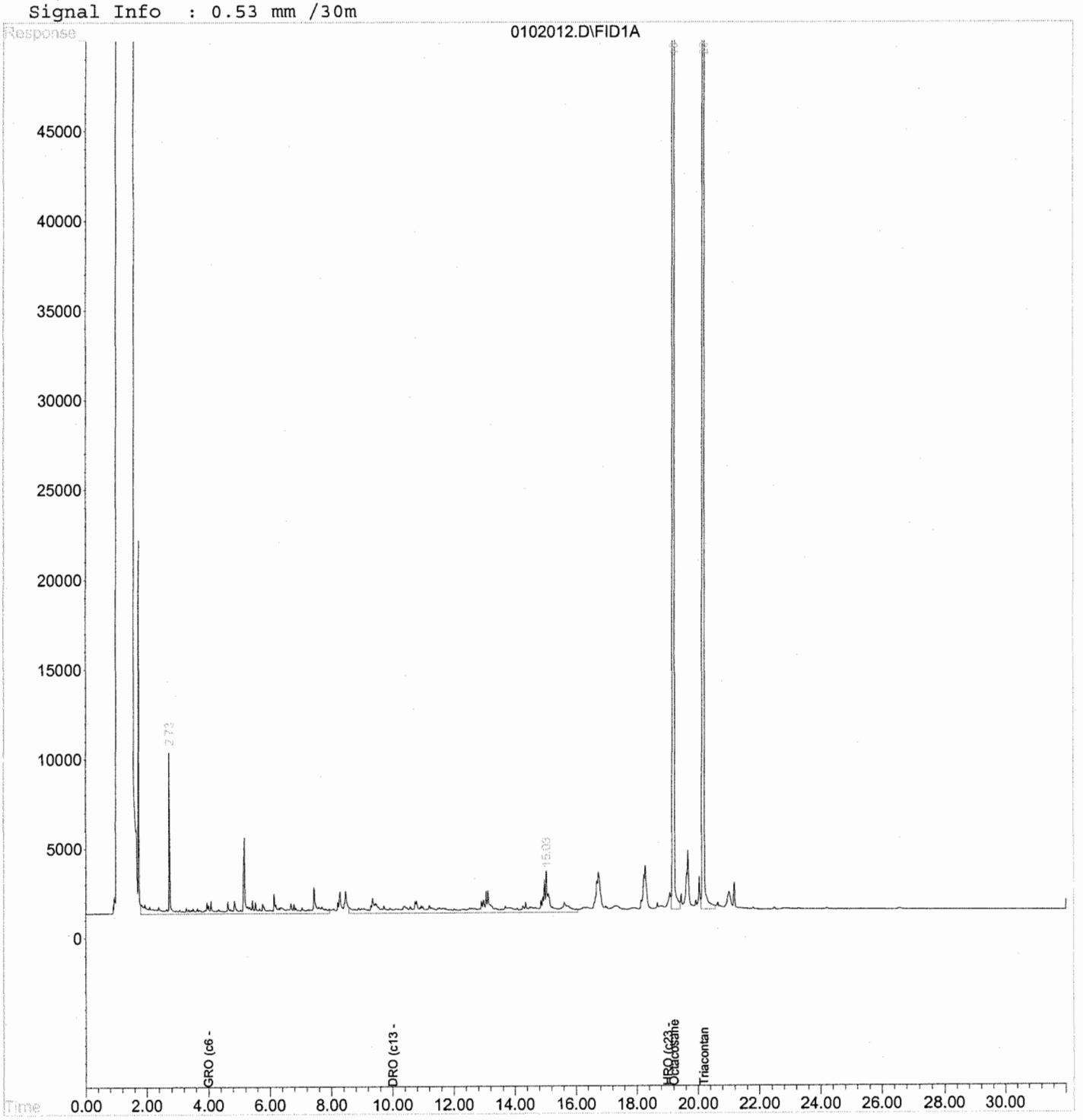
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102012.D Vial: 12
Acq On : 2 Jan 2007 9:12 pm Operator: mcm
Sample : D0602139-007.05 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	12/20/2006	**Receive Date:**	12/22/2006

Analysis Lot:	DWG0700106	**Prep Lot:**	DWG0700105	**Report Group:**	D0602139
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	76035	**Prep Date:**	01/02/2007		

Quant Method:	C:\HPCHEM\2\METHODS\FPO61201.M	**Calibration ID:**	CAL1243
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCO.I\010207\0102004.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCO.I\010207\0102013.D			**Instrument:**	GCO
Acqu Date:	01/02/2007 21:52	**Quant Date:**	01/03/2007 11:04	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0602139-008			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	19.21	0.00	13372012	95.74	128	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		478856**m**	2.89	0.50	U	
Diesel Range Organics (C13-C22	10.00		347348**m**	2.22	0.44	U	
Heavy Range Organics (C24-C3	19.00		599085**m**	4.26	0.50	U	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\010207\0102013.D Vial: 13
Acq On : 2 Jan 2007 9:52 pm Operator: mcm
Sample : D0602139-008.06 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Initial Calibration
DataAcq Meth : GCOFC.M

mcm 1/3/007

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	19.21	13372012	95.743	mg/L
Spiked Amount 75.000	Recovery =		127.66%	
5) S Triacontane	20.18	12796336	89.773	mg/L
Spiked Amount 75.000	Recovery =		119.70%	
Target Compounds				
1) H GRO (c6 - c12)	4.00	478856	2.892	mg/L
2) H DRO (c13 - c22)	10.00	347348	2.224	mg/L
3) H HRO (c23 - c36)	19.00	599085	4.262	mg/L

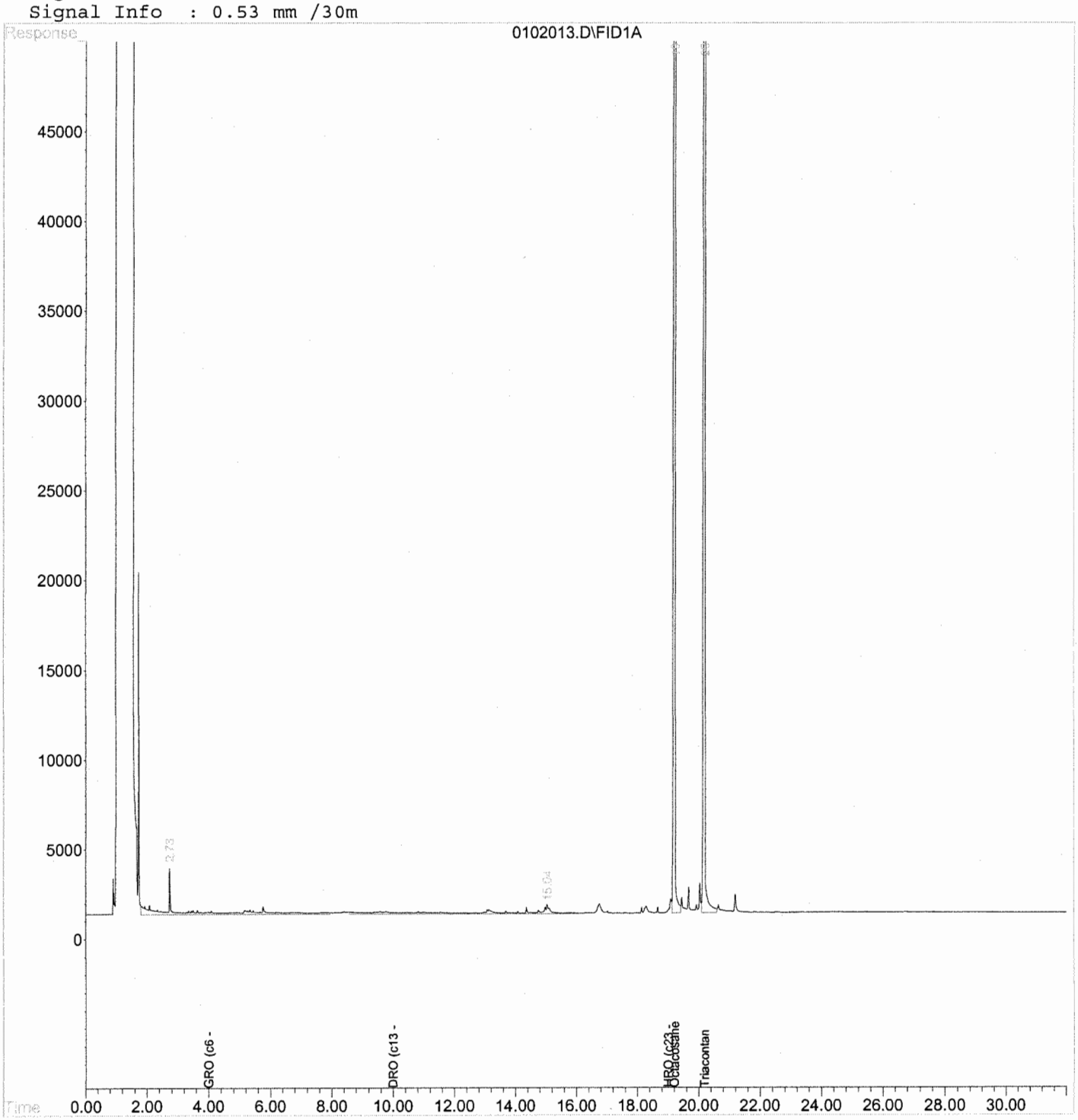
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010207\0102013.D Vial: 13
Acq On : 2 Jan 2007 9:52 pm Operator: mcm
Sample : D0602139-008.06 30mL:3mL Inst : GCO
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 3 11:04 2007 Quant Results File: FPO61201.RES

Quant Method : C:\HPCHEM\2\METHODS\FPO61201.M (Chemstation Integrator)
Title : FC c6-c36 Calibration
Last Update : Wed Jan 03 10:05:55 2007
Response via : Multiple Level Calibration
DataAcq Meth : GCOFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Support Documents

VOA Shakeout

~~Separatory Funnel~~ *Extraction, 3510C*

Total Fuel Hydrocarbon Water

Date	1/2/2007
Time	12:58

Date sampled	12/19/06

Analytical Method(s)

- ☐ TFHD, 8015B
- ☐ DRO by 3520C
- ☐ DRAX, AK102.0
- ☒ Other FC WATER

Solvent Lots

DCM	46210

Spikes

Surrogate	14-EXS-2614		
Amt.	0.023 ml	*Exp:*	8/25/07
Spike	4-S-GC-~~EXS~~ 22C-1		
Amt.	0.018 ml	*Exp:*	10/20/07
Spiked by	MM	**Witness**	

Comments:

Each vial was shaken by hand for 2 minutes each.

Batches: GeoSyntec Consultants, Chevron

Client(s): D0602139, P0600340

Test Code(s)	Spikes		Amt	Final KD	Relinq.
	Surrogate	Spike 1	(ML)	H2O bath temp °C, Date & Volume	DCM Volume (ML)
Sample ID	X	X	By:	By:	By:
DWB1			30.0		3.0
~~DWB2~~					
DWL1			30.0		3.0
~~DWL2~~					
D0602139-02.02	X		30.0		3.0
-02.01MS	X	X			
-02.06MSD	X	X			
-03.05	X				
-04.05	X				
-06.05	X				
-07.05	X				
-08.06	X				
P0600340-01.01	X				
-02.01	X				
-03.01	X				

☒ Completed ms/msd

☐ Sample limited, no ms/msd, duplicate LCS

050

Peer Review By:

Organic Extractions Dept.
CAS-Redding

GC/MS VOLATILE ORGANICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139

Cover Page - Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
QCEB	D0602139-001	12/19/2006	12/22/2006
T-54-GW-11	D0602139-002	12/20/2006	12/22/2006
T-54-GW-40	D0602139-003	12/20/2006	12/22/2006
T-54-GW-65	D0602139-004	12/20/2006	12/22/2006
QCEB	D0602139-005	12/20/2006	12/22/2006
T-55-GW-11	D0602139-006	12/20/2006	12/22/2006
T-55-GW-40	D0602139-007	12/20/2006	12/22/2006
T-55-GW-70	D0602139-008	12/20/2006	12/22/2006

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Brian Moore

Date: 01/03/07 Title: Technical Manager

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/19/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0602139-001
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	ND	U	0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**3.4**	J	0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	**0.46**	J	0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**0.42**	J	0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	ND	U	0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**1.0**	J	0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	**0.55**		0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	**5.8**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	**0.30**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	**0.22**	J	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	**8.4**		0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	**1.1**	J	0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	ND	U	0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	**9.0**		0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/19/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0602139-001
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	**0.21**	J	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	ND	U	0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	ND	U	0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	**1.8**		0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	ND	U	0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	92	79-135	12/29/2006	
4-Bromofluorobenzene - SS	110	82-124	12/29/2006	
Dibromofluoromethane - SS	95	84-127	12/29/2006	
Toluene-d8 - SS	87	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D
Lab Smp Id: D0602139-001 Client Smp ID: QCEB
Inj Date : 29-DEC-2006 11:53
Operator : X Inst ID: MSK.i
Smp Info : D0602139-001
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 10:45 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

01/02/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	9.681	9.670	(1.000)	767778	10.0000	
*	2 Chlorobenzene-d5	117	13.013	13.016	(1.000)	524965	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.601	15.604	(1.000)	274867	10.0000	
$	4 Dibromofluoromethane	113	8.878	8.866	(0.917)	229504	9.51033	9.51
$	5 1,2-Dichloroethane-d4	65	9.279	9.283	(0.959)	233446	9.17128	9.17
$	6 Toluene-d8	98	11.421	11.425	(0.878)	585891	8.73673	8.74
$	7 Bromofluorobenzene	174	14.277	14.280	(0.915)	260916	10.9599	11.0
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	Compound Not Detected.					
	12 Bromomethane	94	4.401	4.642	(0.455)	1543	0.13249	0.132(aQ)
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	17 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	6.067	6.070	(0.627)	16284	3.43182	3.43(a)
	21 Carbon disulfide	76	6.424	6.427	(0.664)	34523	0.46119	0.461(a)
	22 Methylene chloride	84	6.706	6.695	(0.693)	10203	0.42370	0.424(a)
	26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	27 tert-Butylmethylether	73	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 Vinyl acetate	43	Compound Not Detected.					

2/2/07

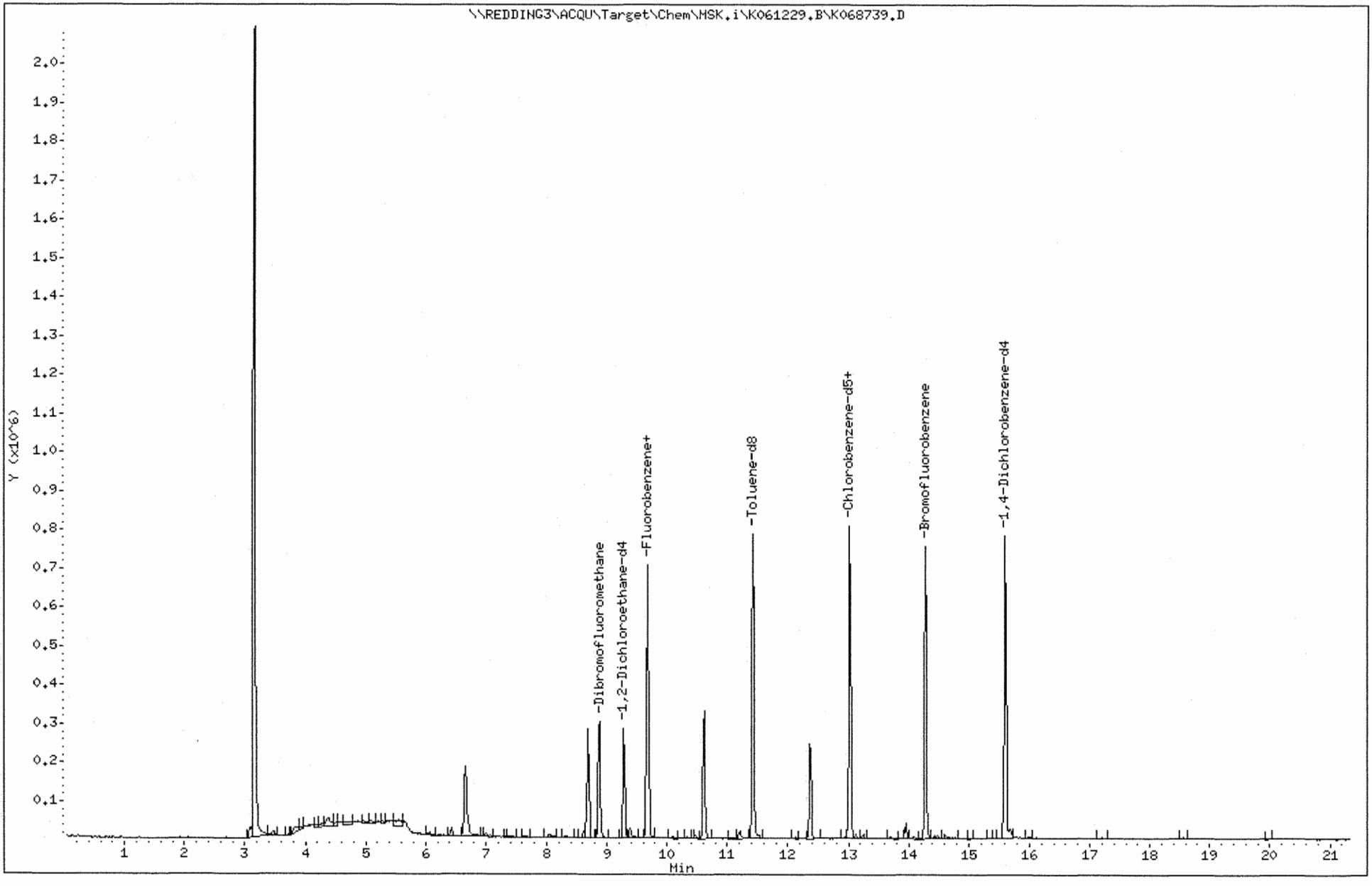
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.298	8.286	(0.857)	6932	1.02548	1.02(a)
36	Bromochloromethane	128	8.625	8.613	(0.891)	6283	0.55140	0.551(Q)
37	Chloroform	83	8.685	8.688	(0.897)	257484	5.82889	5.83
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	9.384	9.387	(0.969)	24002	0.30310	0.303(a)
44	1,2-Dichloroethane	62	9.666	9.372	(0.998)	11207	0.38087	~~0.381(a)~~
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	10.484	10.473	(1.083)	3243	0.21625	0.216(a)
49	Bromodichloromethane	83	10.618	10.607	(1.097)	259089	8.45290	8.45
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	11.213	11.202	(1.158)	18087	1.12217	1.12(a)
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	12.373	12.362	(0.951)	170063	9.00838	9.01
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	13.057	13.046	(1.003)	10883	0.20768	0.208(aQ)
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	13.132	13.254	(1.009)	6065	0.19488	~~0.195(aQ)~~
66	o-Xylene	106	13.251	13.700	(1.018)	3644	0.11997	~~0.120(a)~~
M 67	Xylene (total)	106				9709	0.31485	~~0.315(a)~~
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	13.950	13.953	(1.072)	23018	1.79468	1.79
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D
Date : 29-DEC-2006 11:53
Client ID: QCEB
Sample Info: D0602139-001
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



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Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

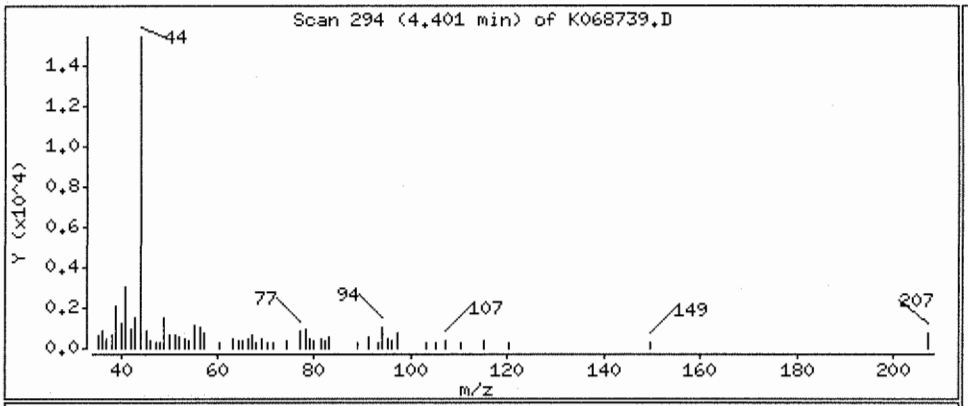
Operator: X

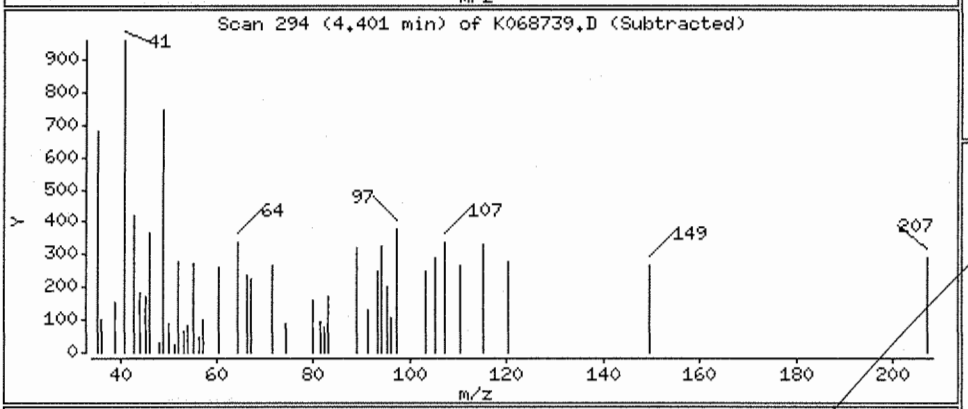
Column phase: DB-624

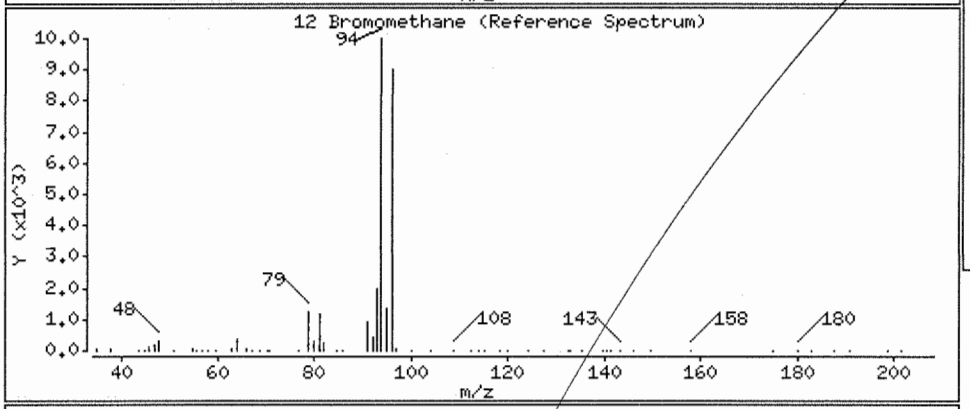
Column diameter: 0.32

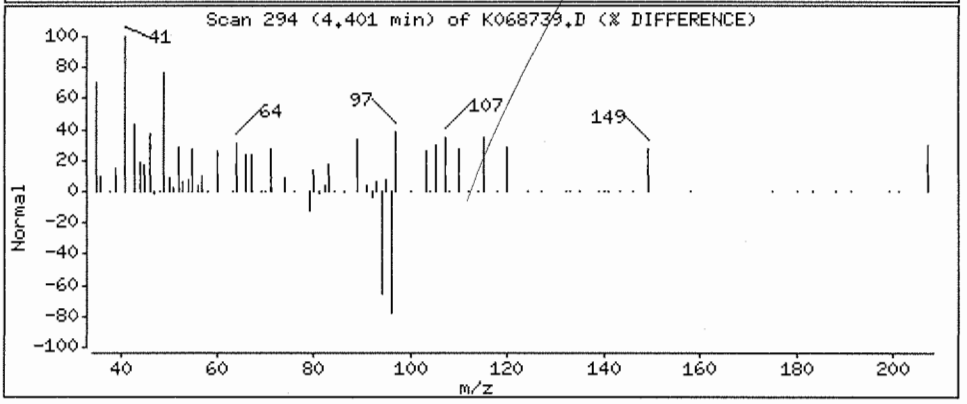
12 Bromomethane

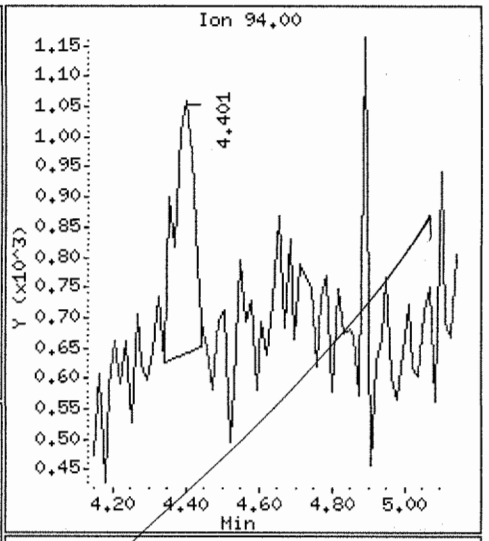
Concentration: 0.132 ug/L

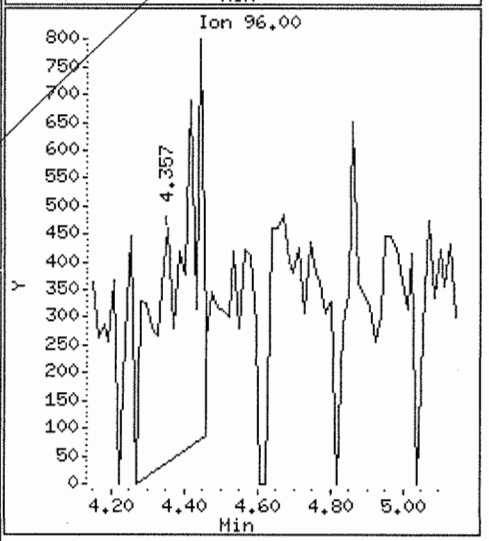












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Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

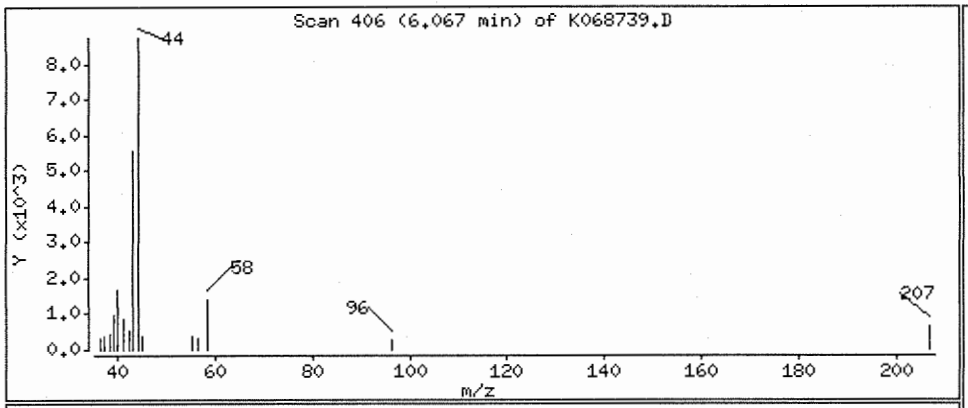
Operator: X

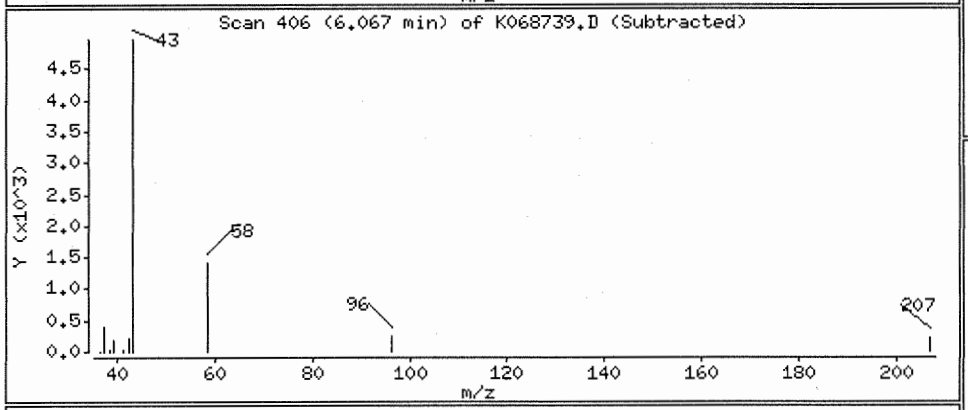
Column phase: DB-624

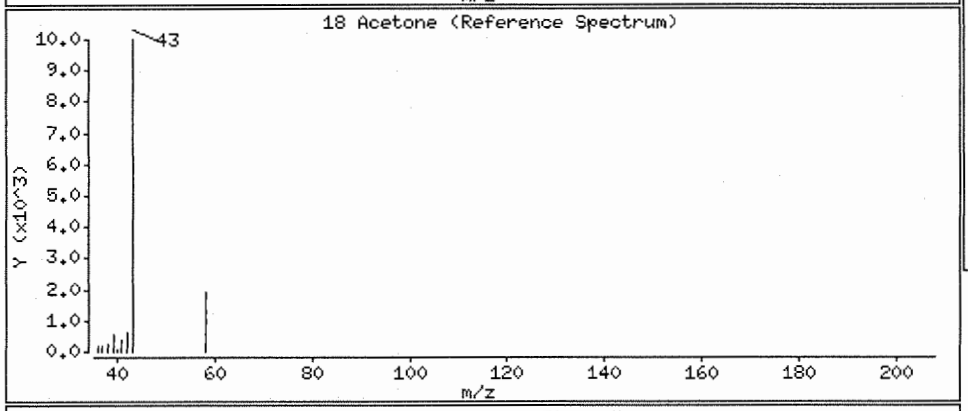
Column diameter: 0.32

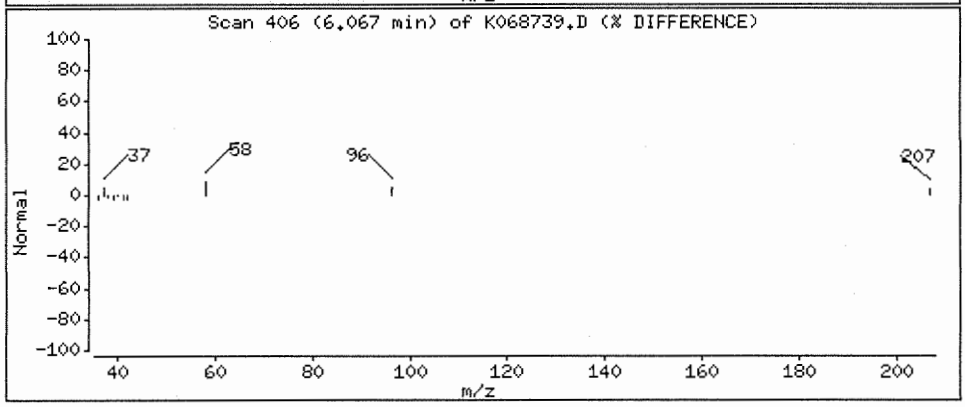
18 Acetone

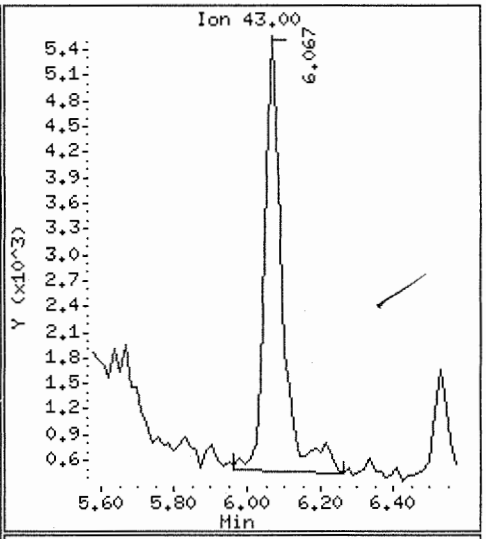
Concentration: 3.43 ug/L

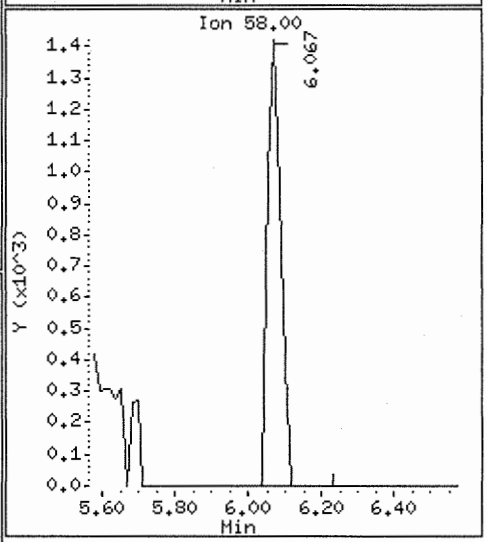












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Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

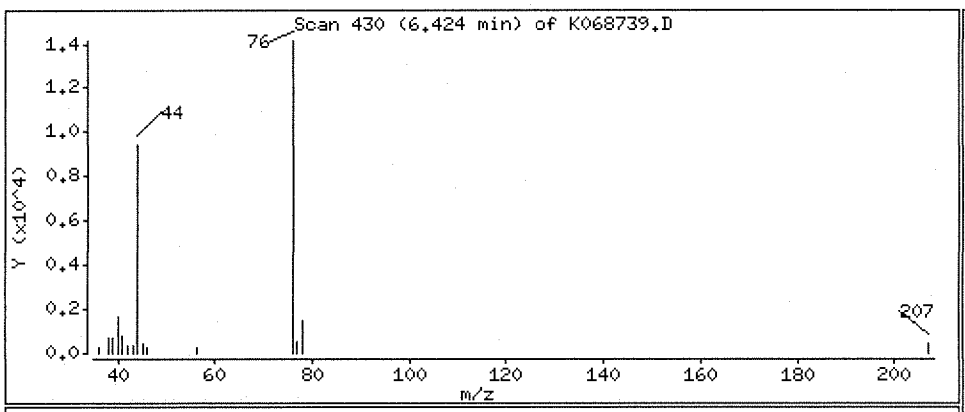
Operator: X

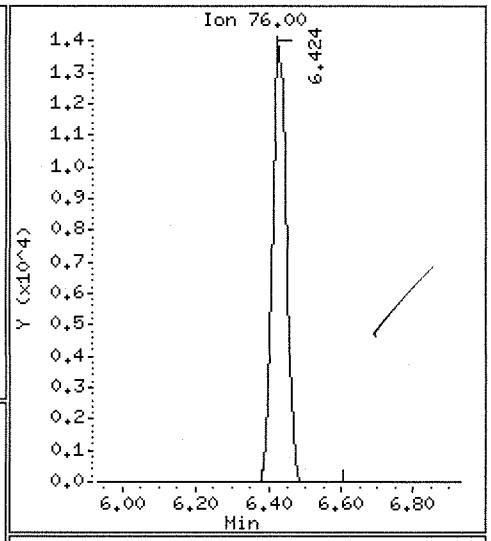
Column phase: DB-624

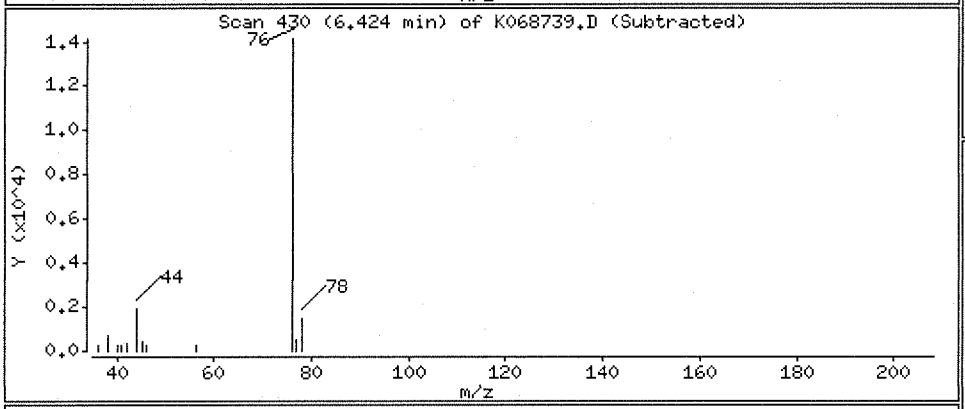
Column diameter: 0.32

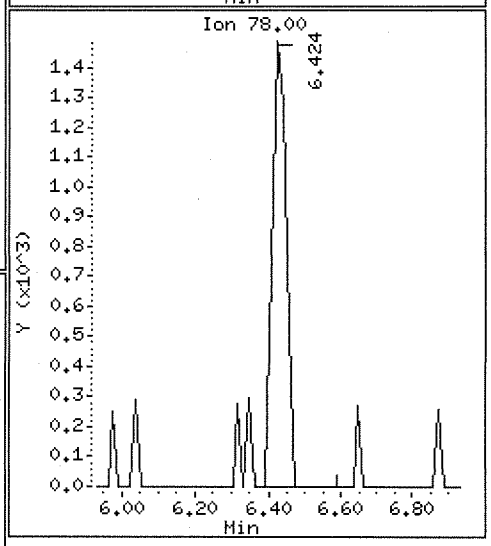
21 Carbon disulfide

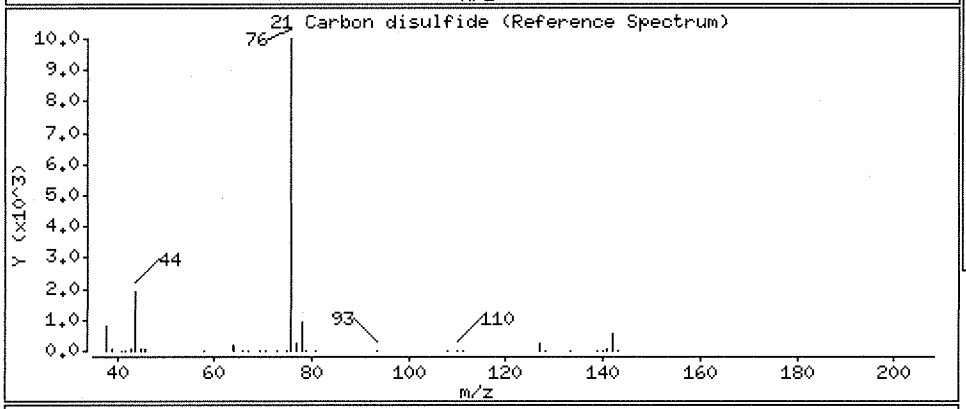
Concentration: 0.461 ug/L

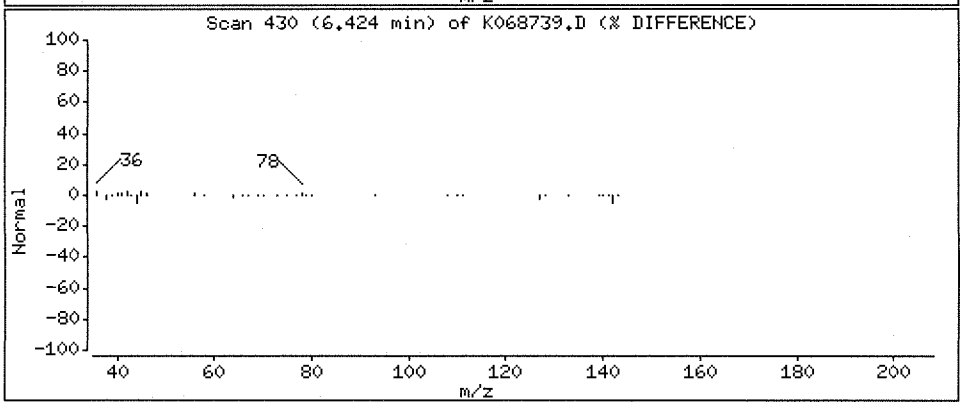












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

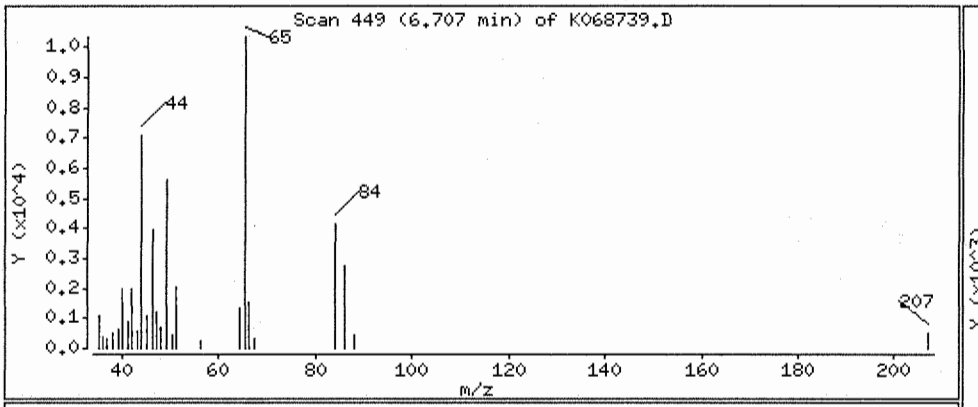
Operator: X

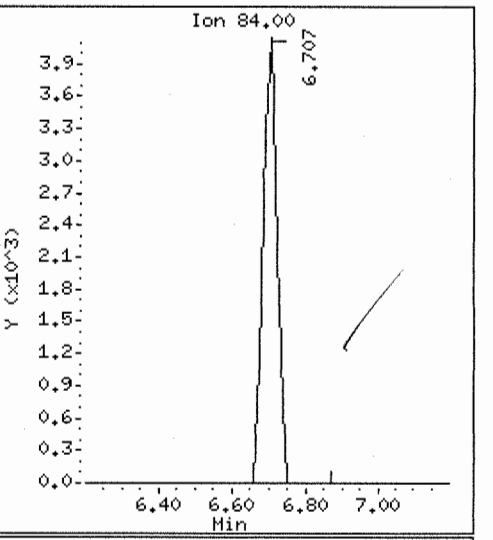
Column phase: DB-624

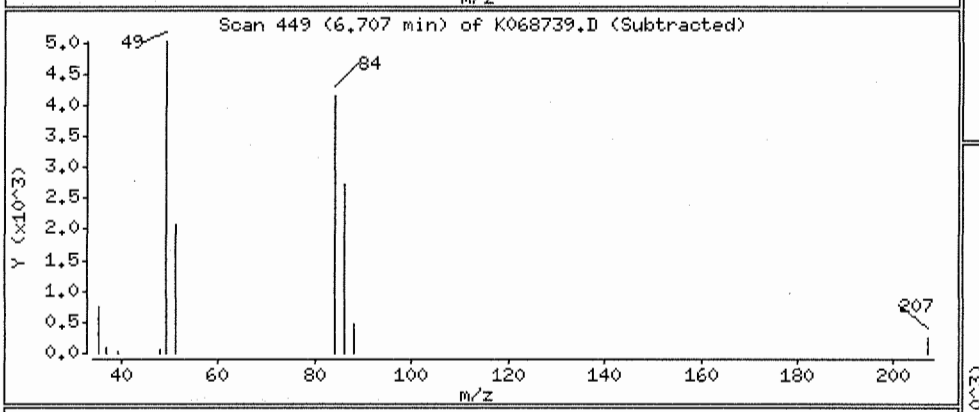
Column diameter: 0.32

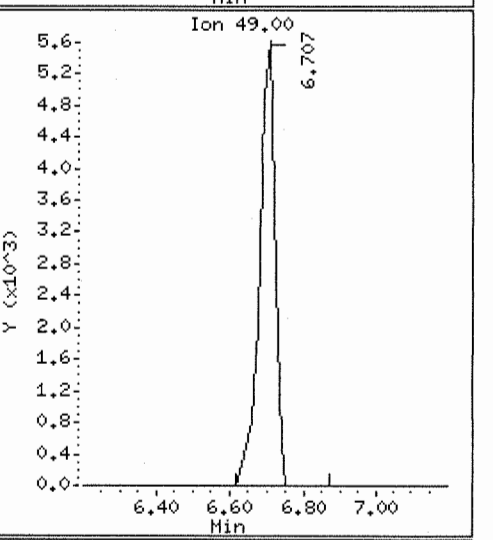
22 Methylene chloride

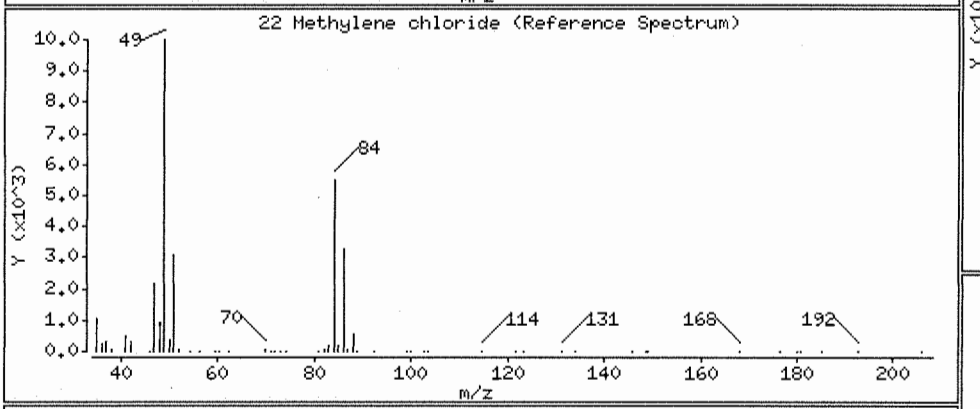
Concentration: 0.424 ug/L

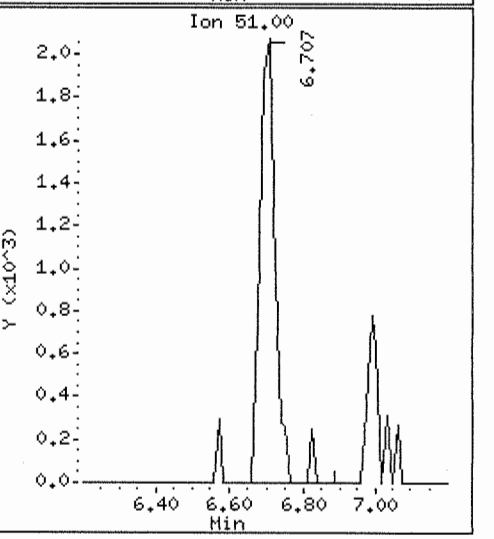


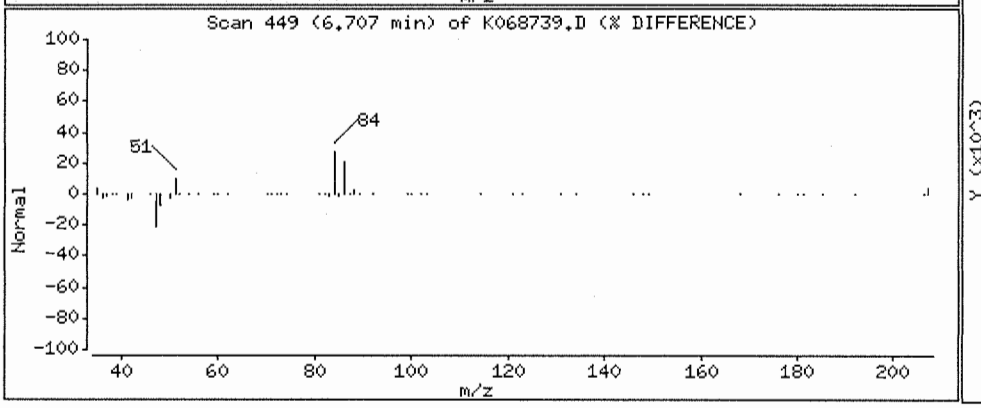












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

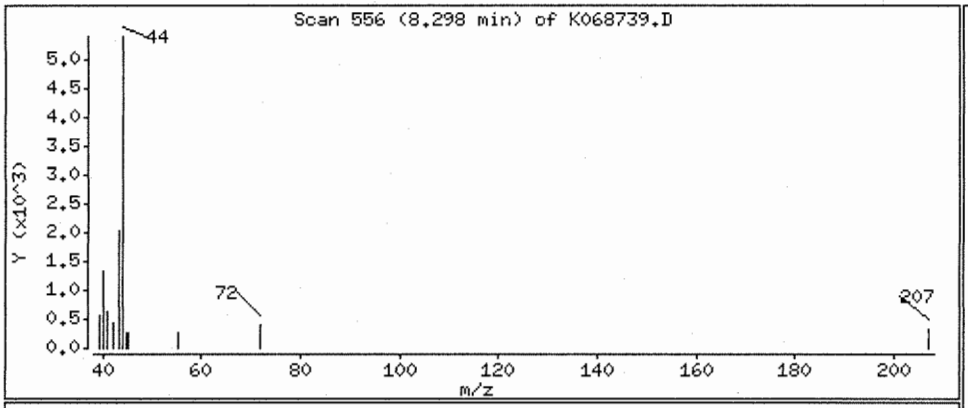
Operator: X

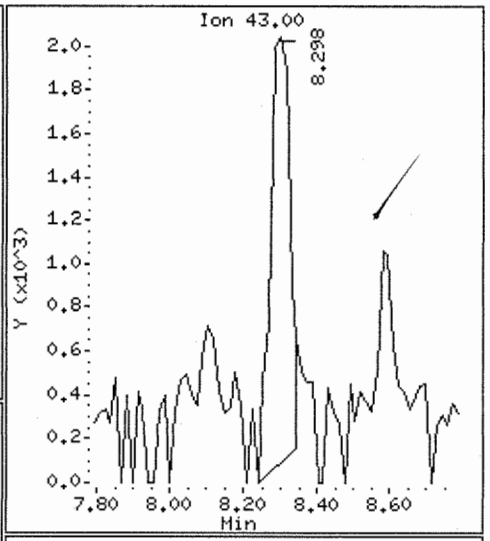
Column phase: DB-624

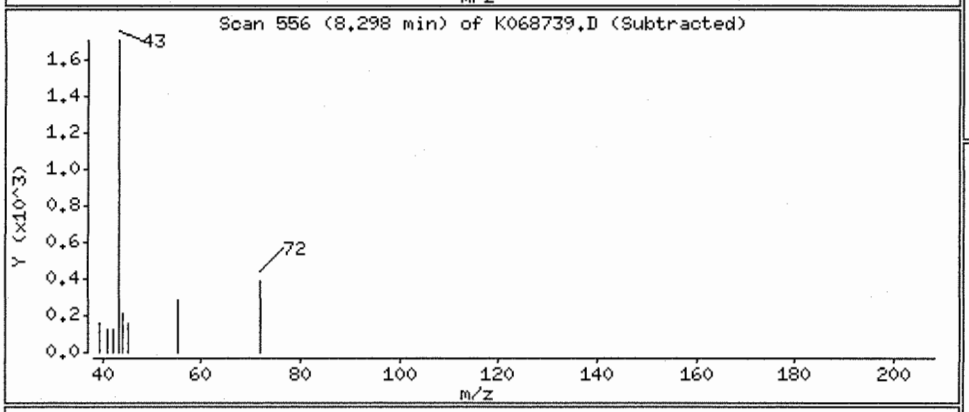
Column diameter: 0.32

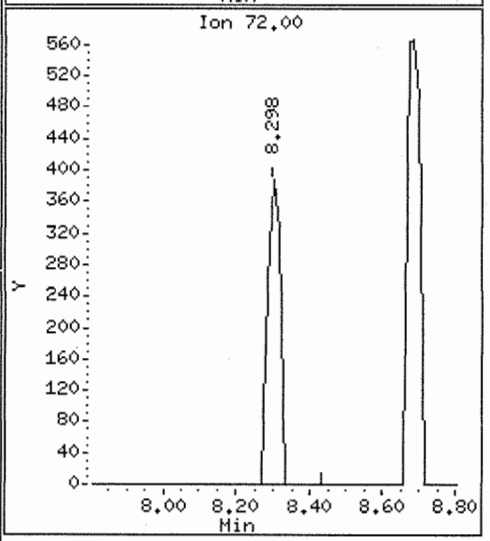
35 2-Butanone

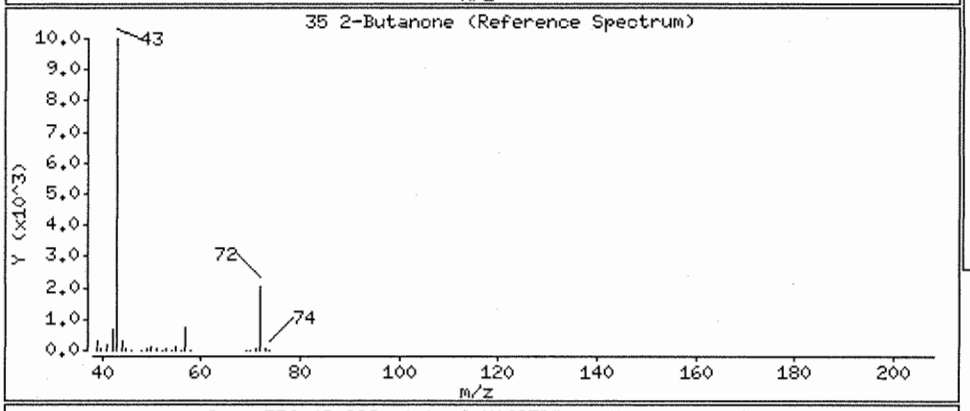
Concentration: 1.02 ug/L

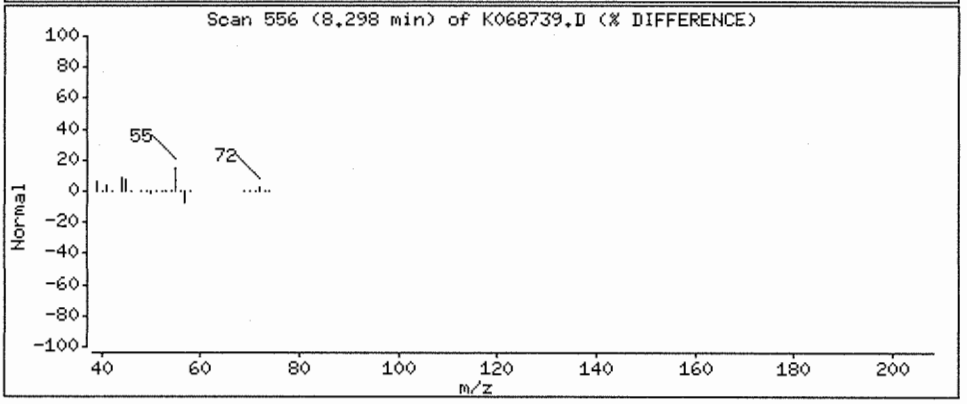












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

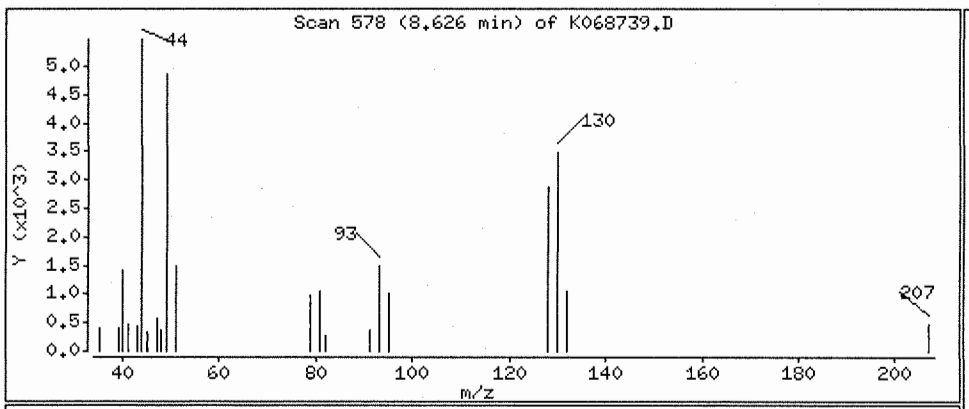
Operator: X

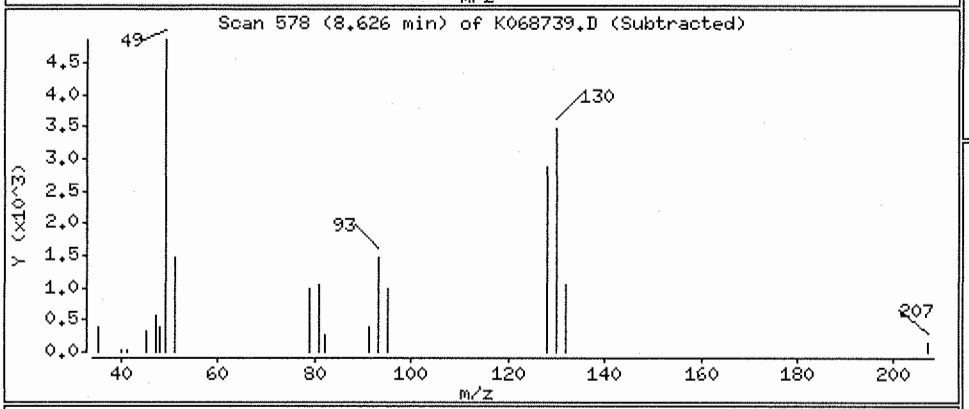
Column phase: DB-624

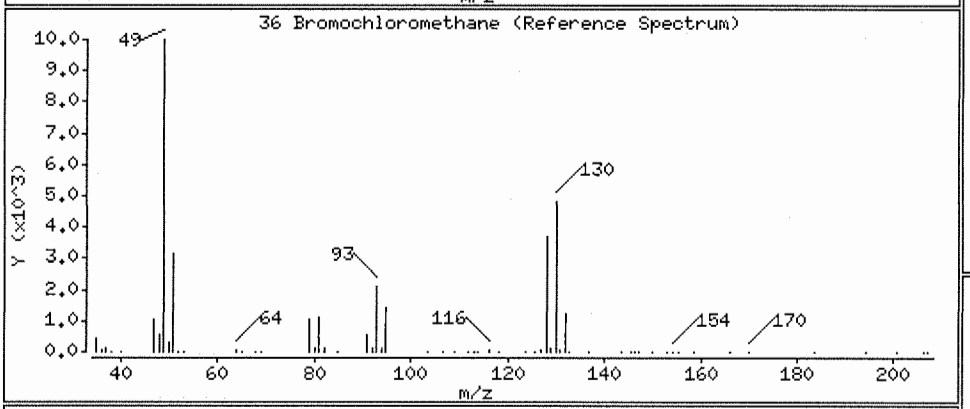
Column diameter: 0.32

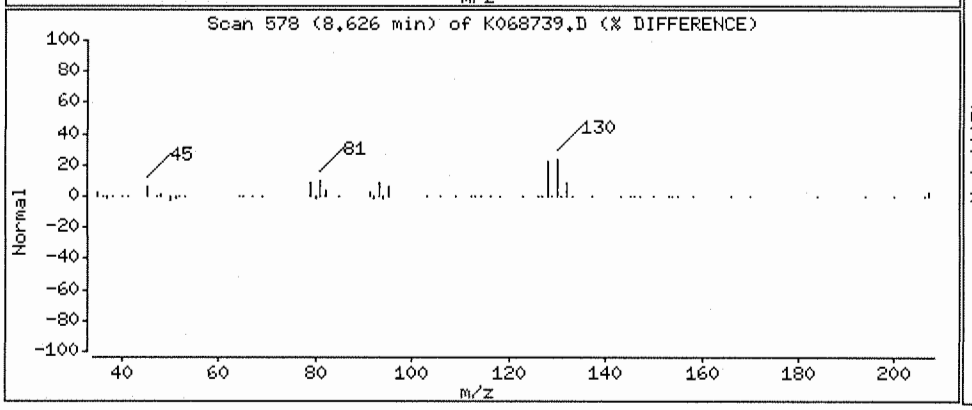
36 Bromochloromethane

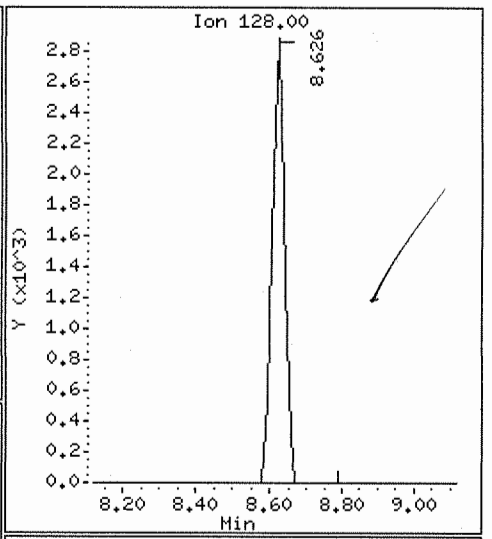
Concentration: 0.551 ug/L

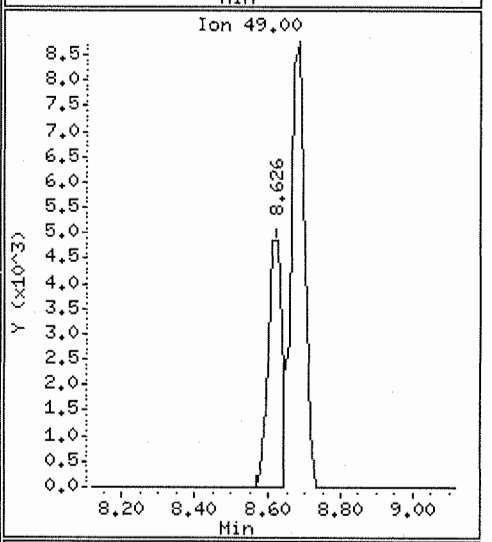


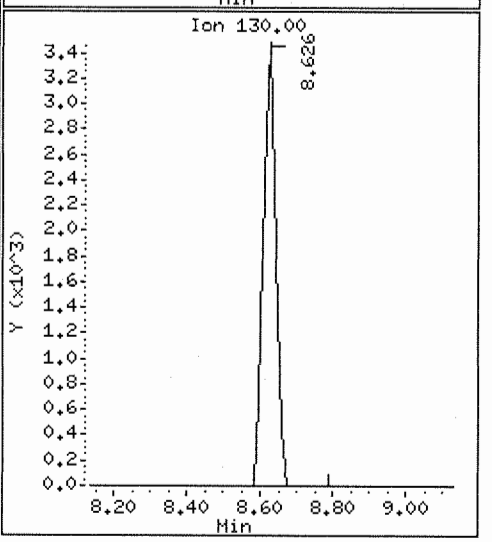












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

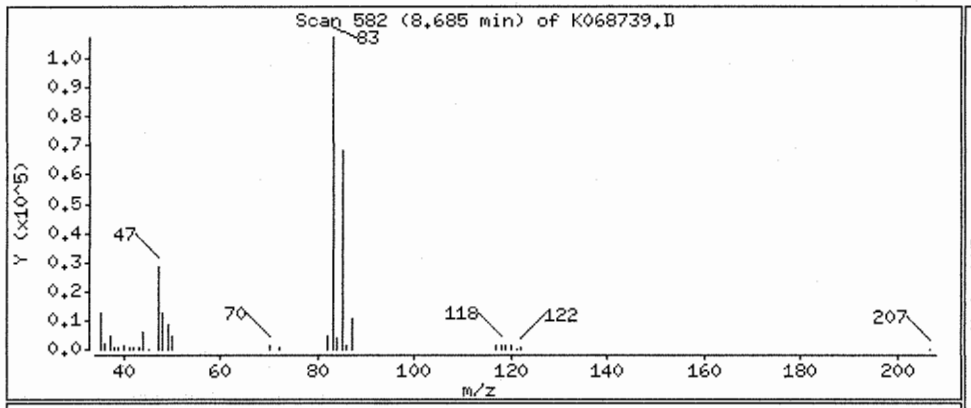
Operator: X

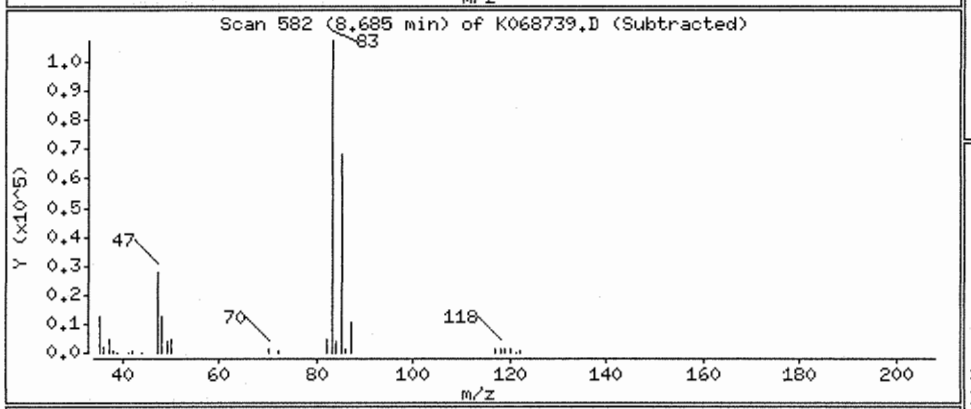
Column phase: DB-624

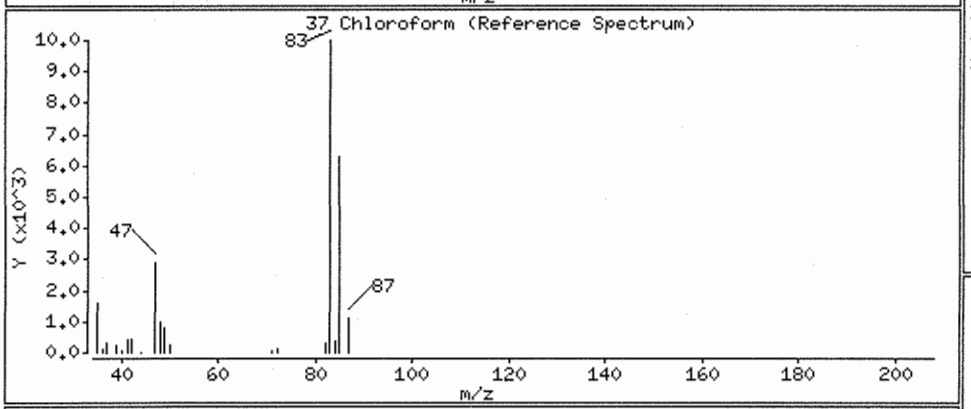
Column diameter: 0.32

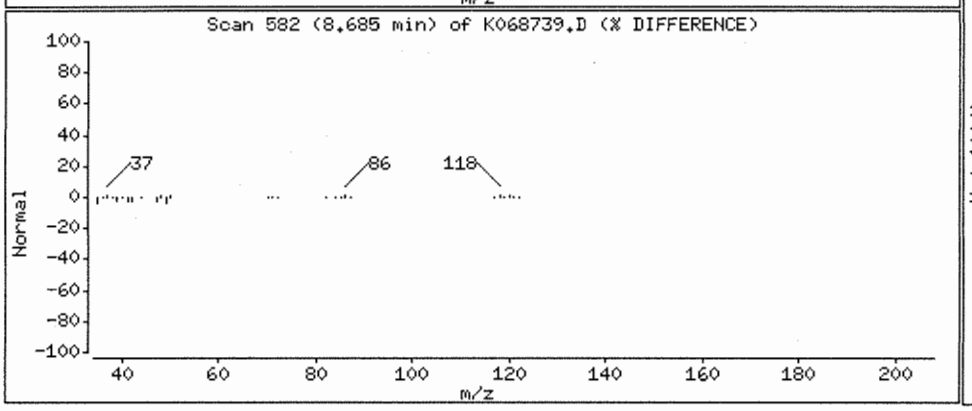
37 Chloroform

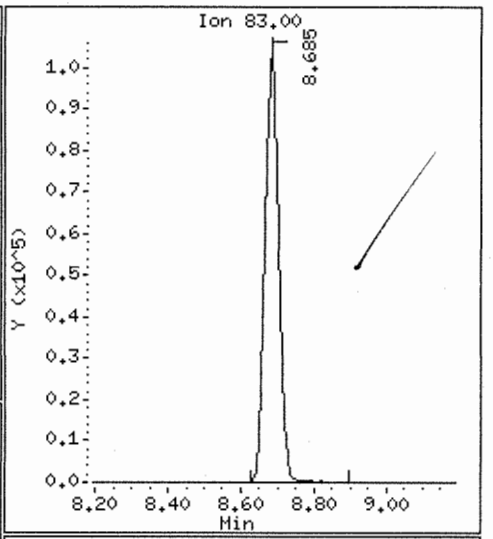
Concentration: 5.83 ug/L

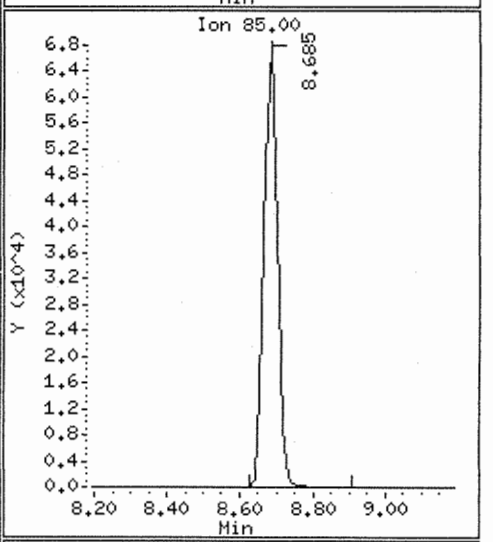


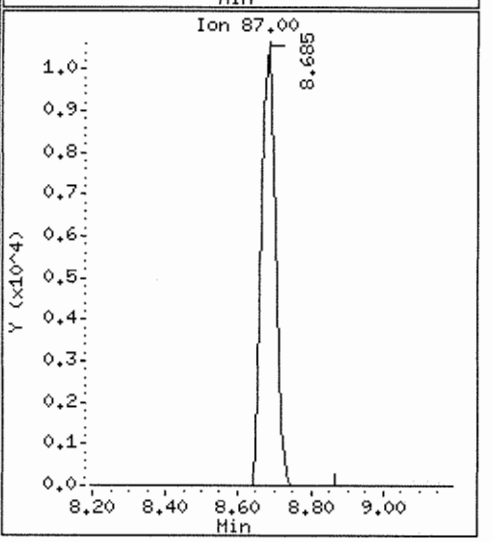












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

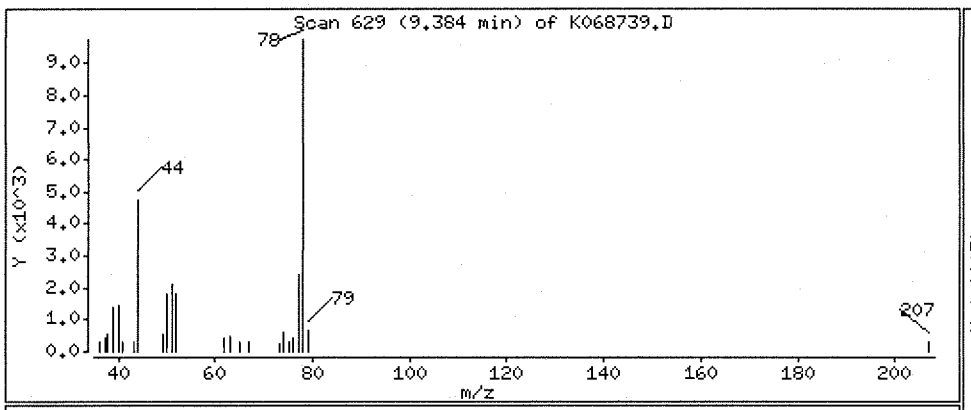
Operator: X

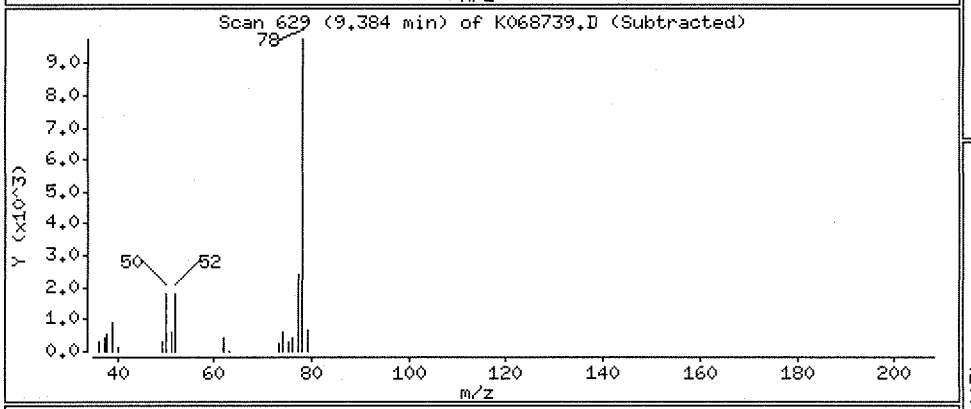
Column phase: DB-624

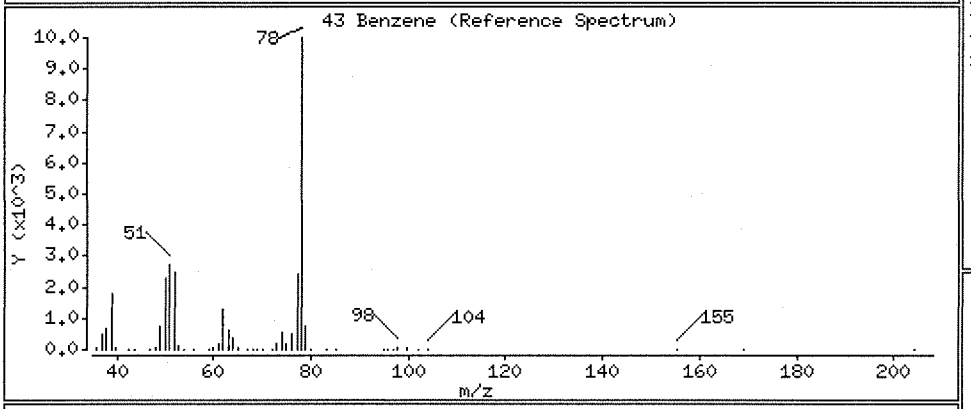
Column diameter: 0.32

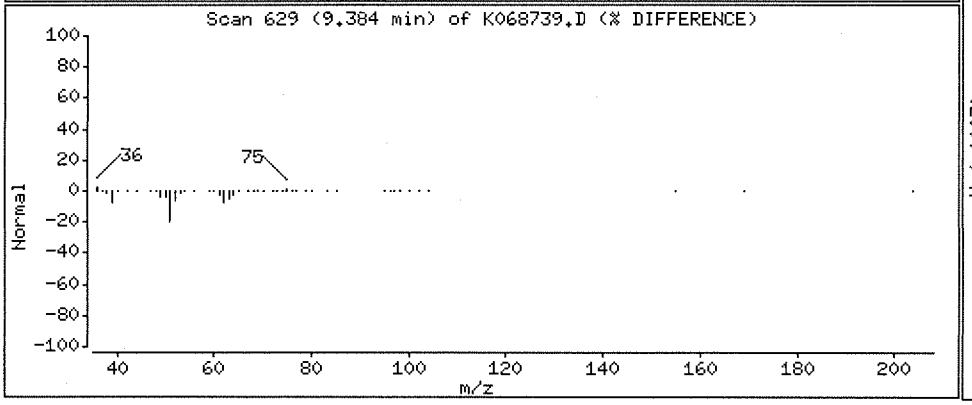
43 Benzene

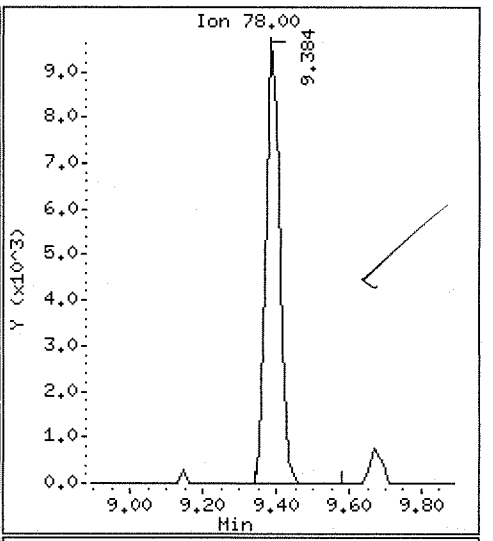
Concentration: 0.303 ug/L

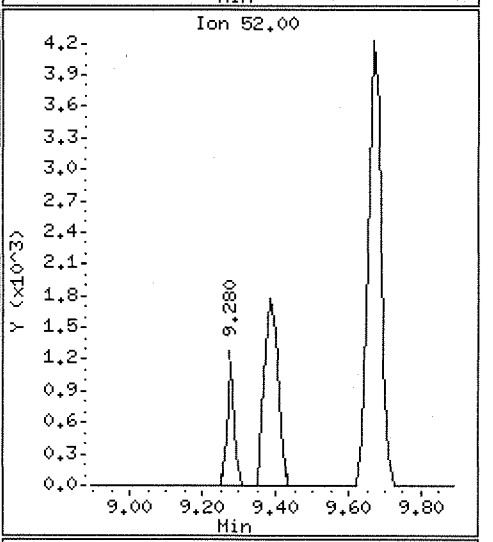


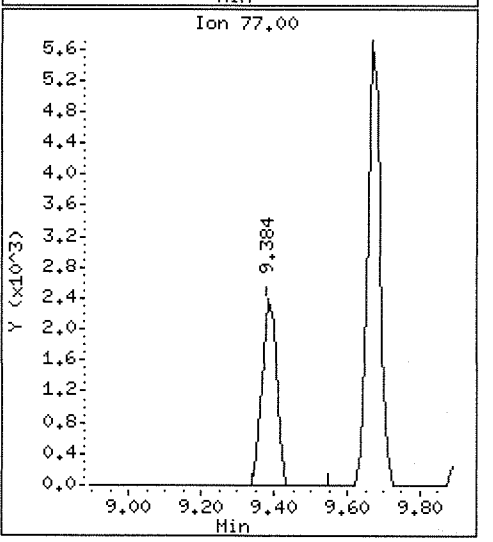












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

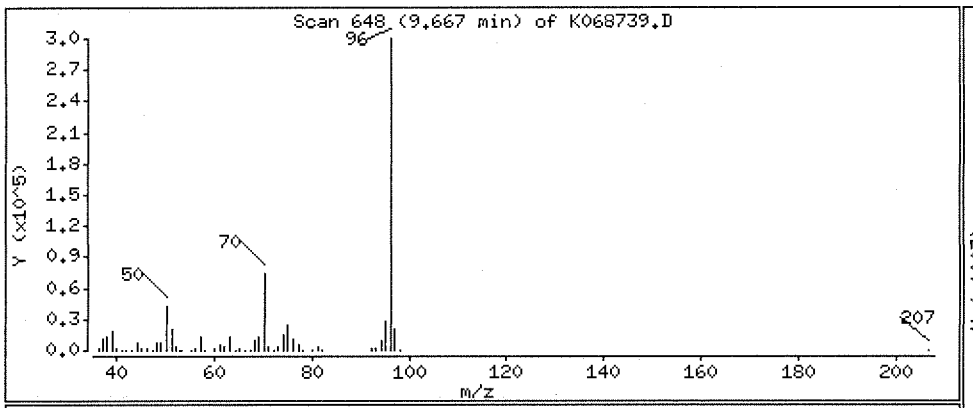
Operator: X

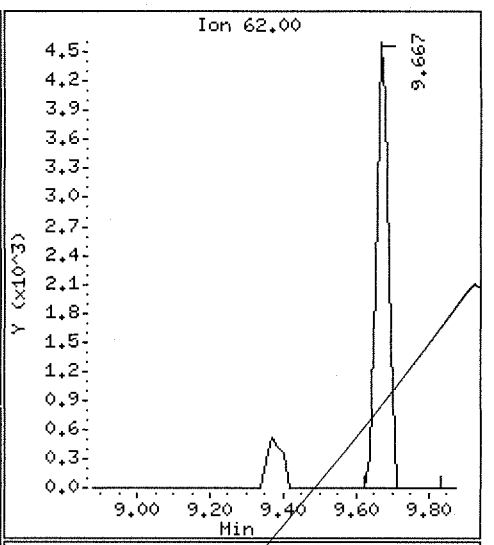
Column phase: DB-624

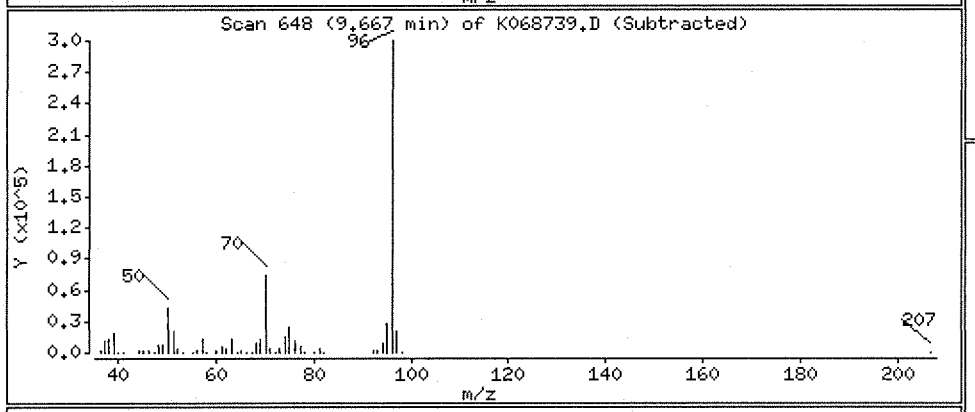
Column diameter: 0.32

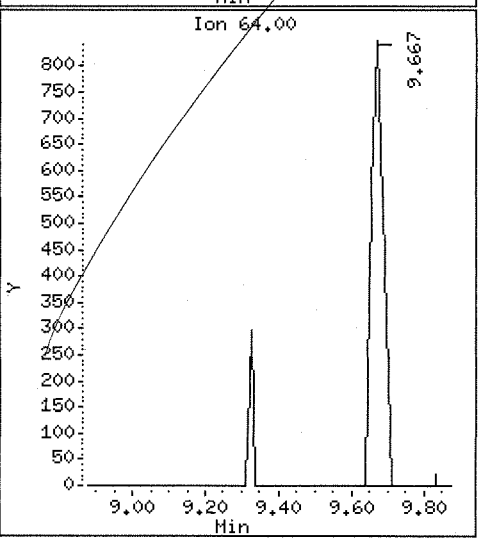
44 1,2-Dichloroethane

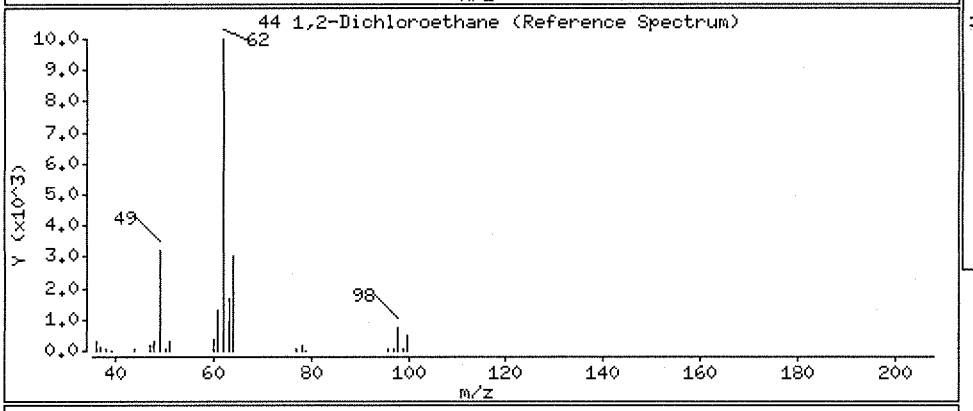
Concentration: 0.381 ug/L

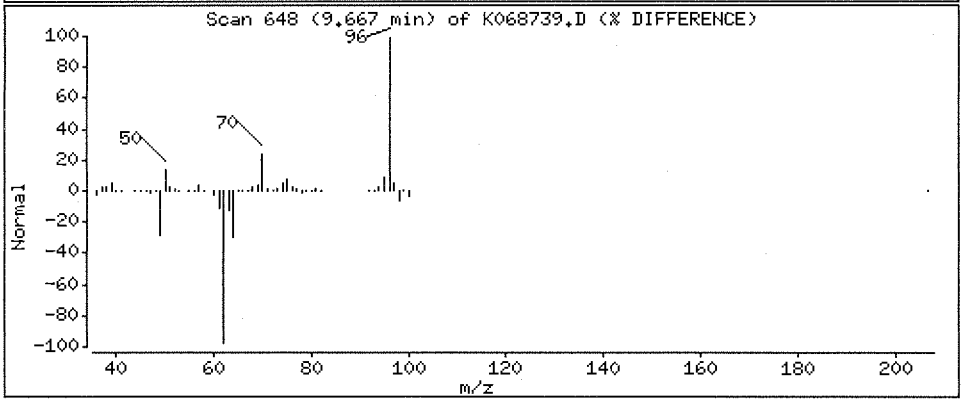












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

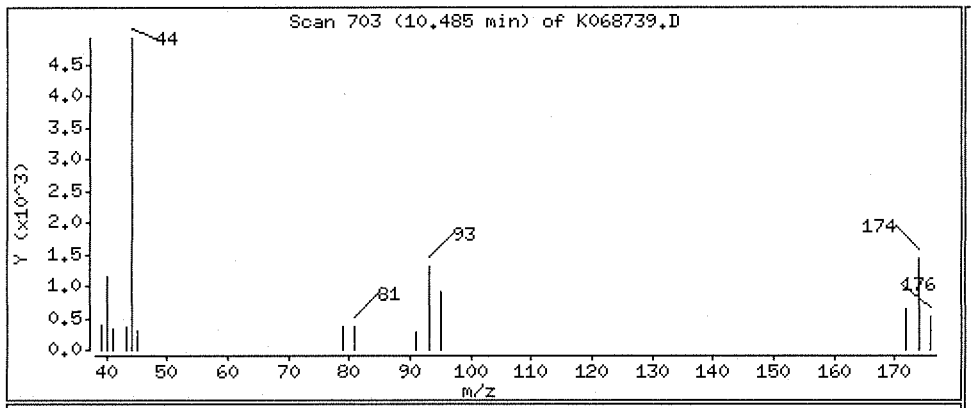
Operator: X

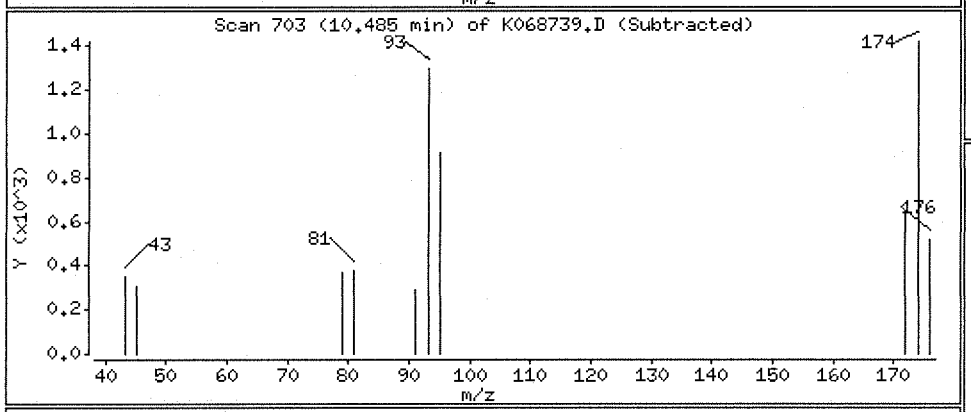
Column phase: DB-624

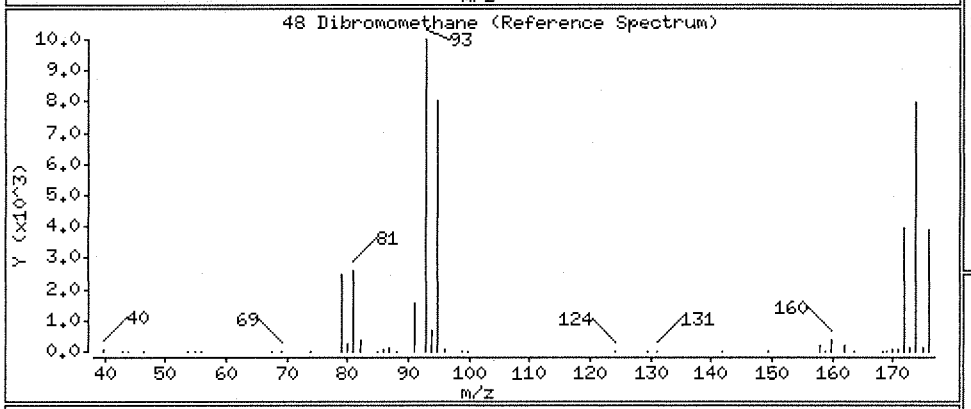
Column diameter: 0.32

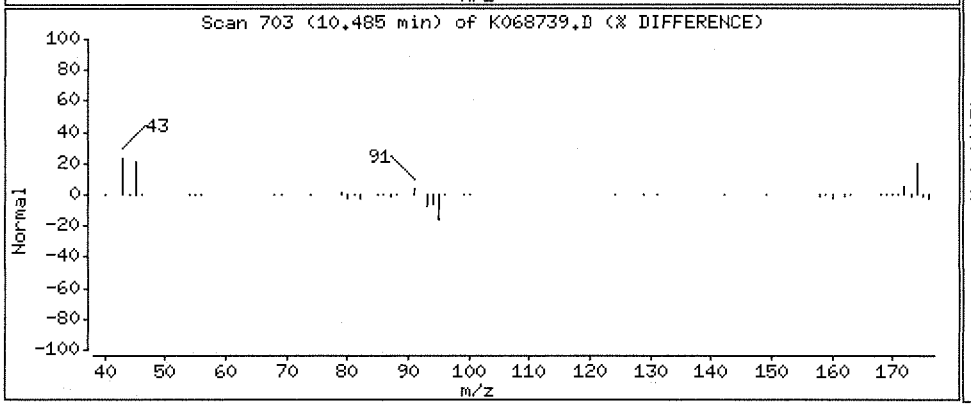
48 Dibromomethane

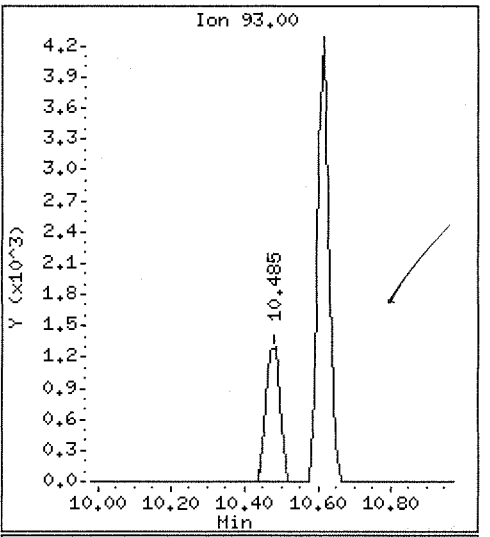
Concentration: 0.216 ug/L

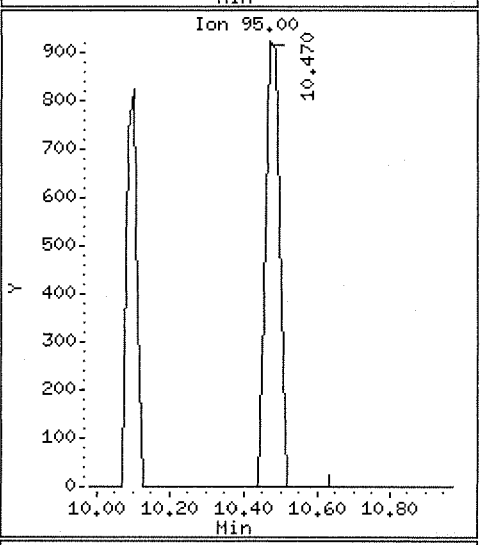


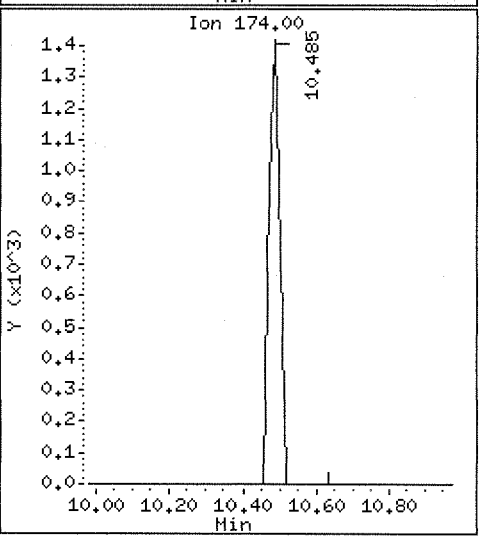












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

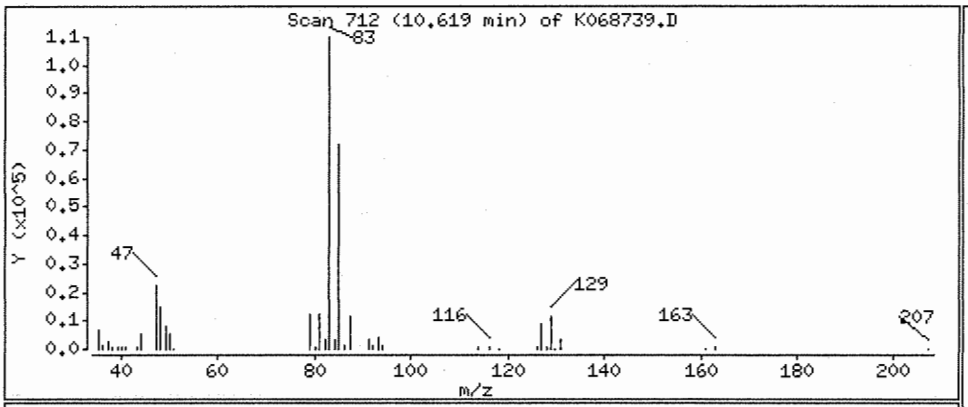
Operator: X

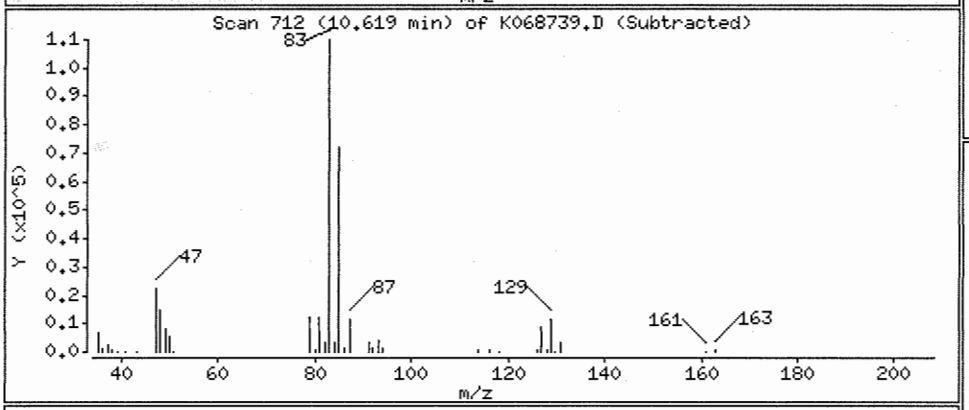
Column phase: DB-624

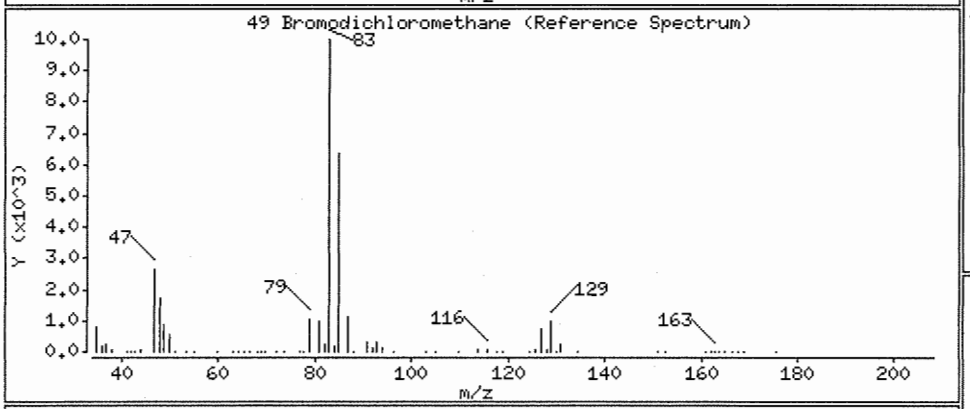
Column diameter: 0.32

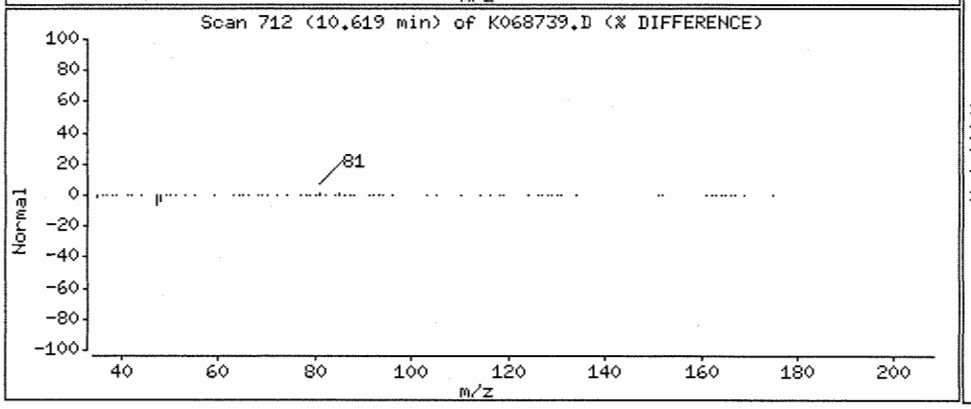
49 Bromodichloromethane

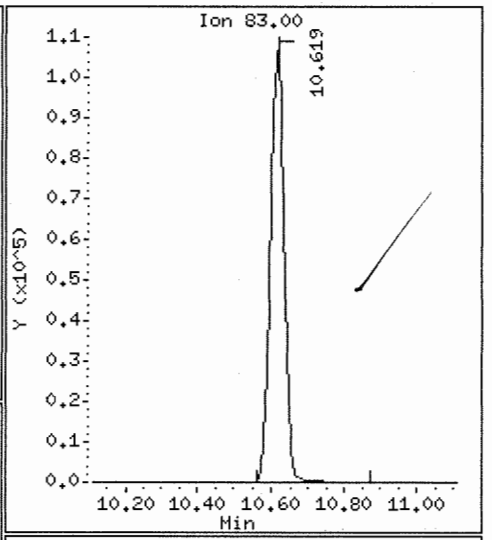
Concentration: 8.45 ug/L

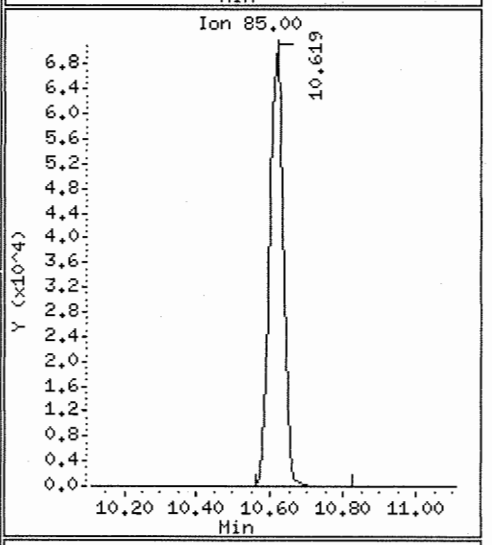


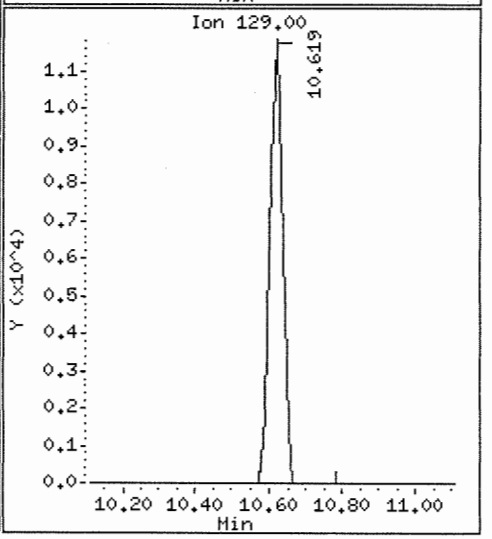












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

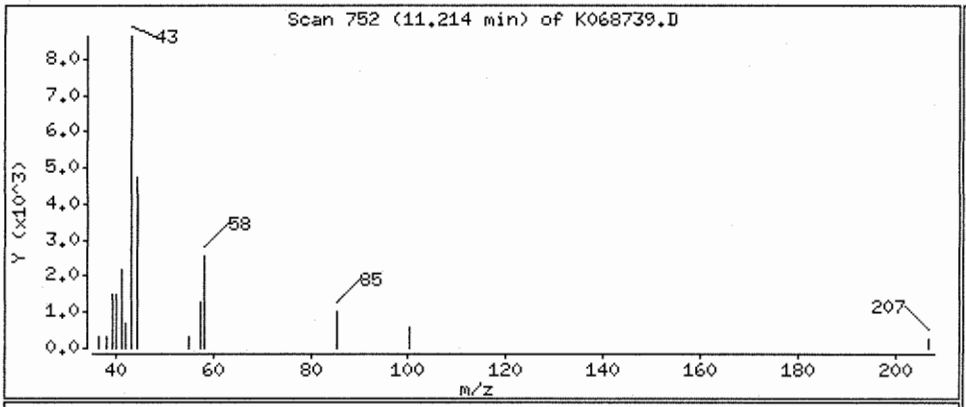
Operator: X

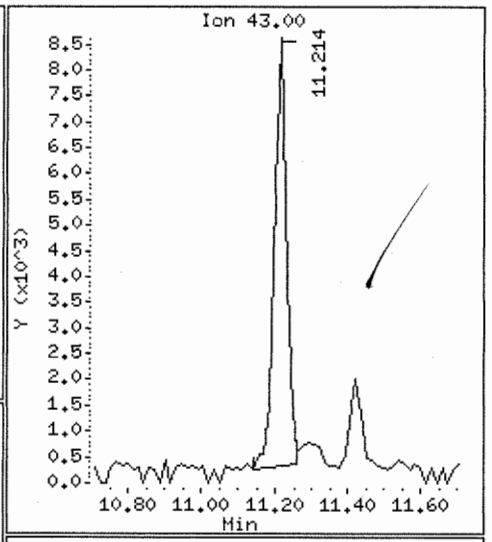
Column phase: DB-624

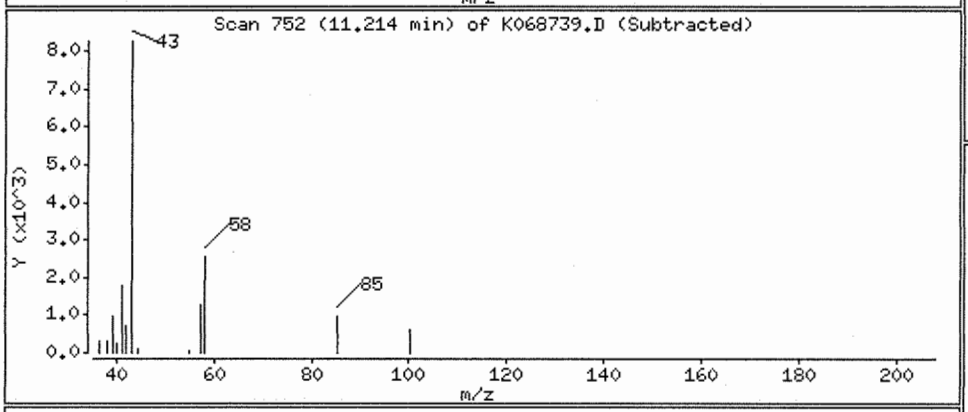
Column diameter: 0.32

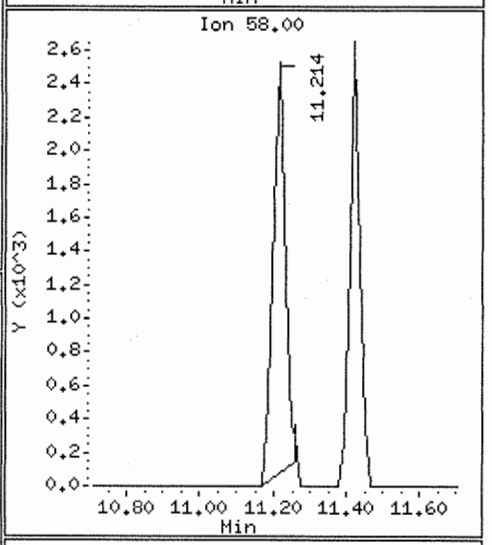
52 4-Methyl-2-pentanone

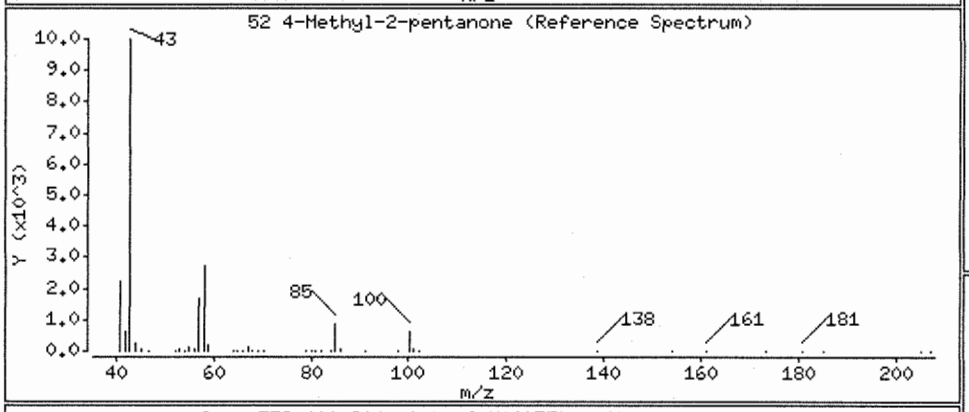
Concentration: 1.12 ug/L

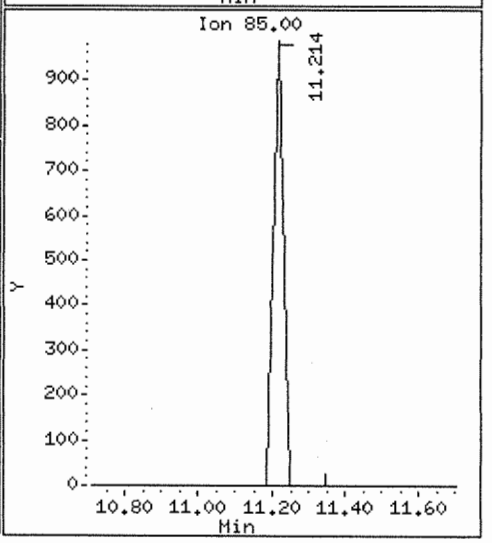


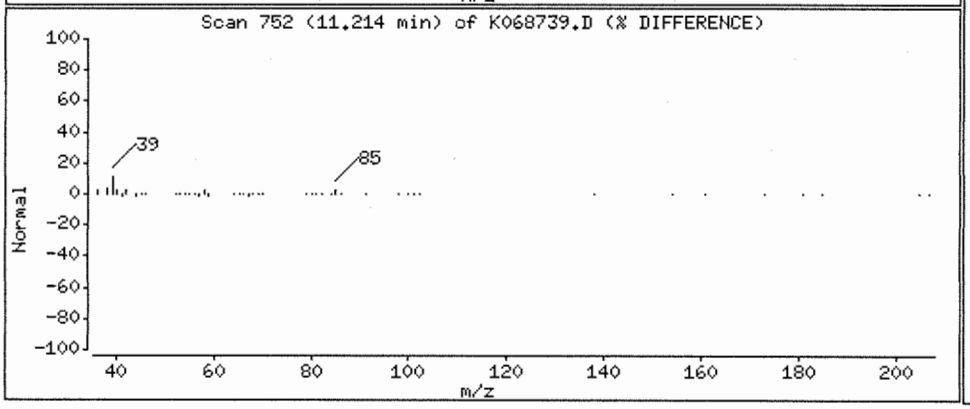












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

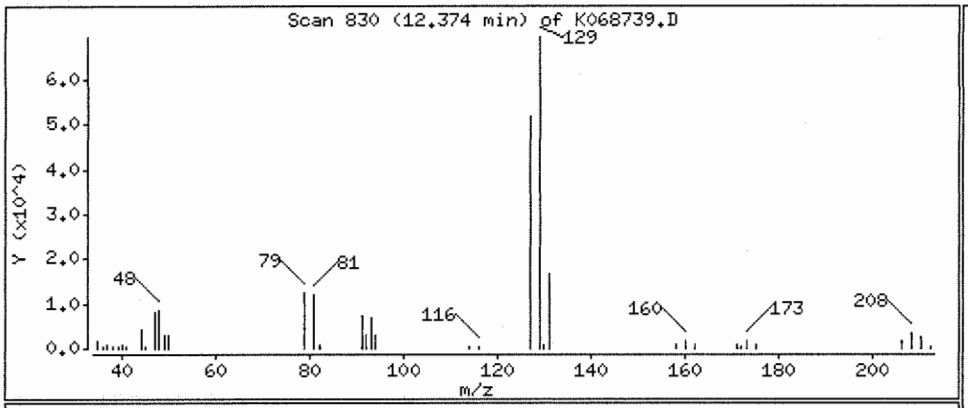
Operator: X

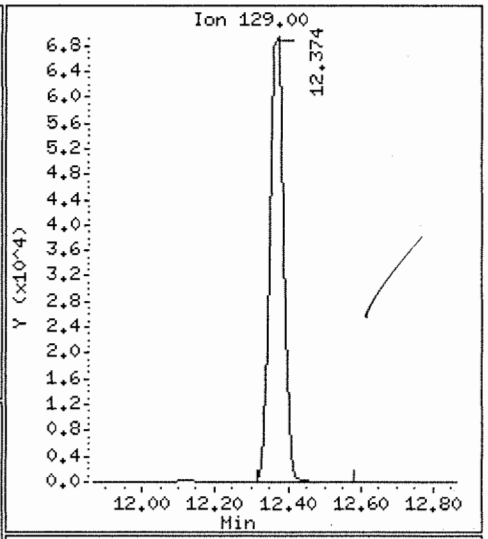
Column phase: DB-624

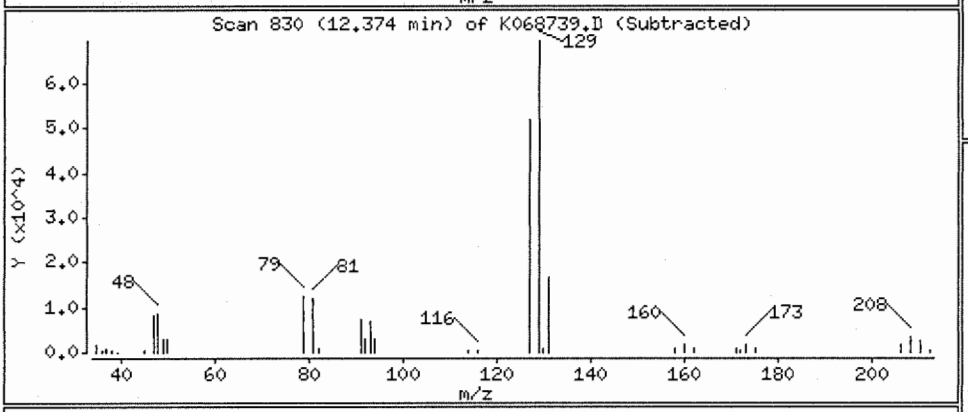
Column diameter: 0.32

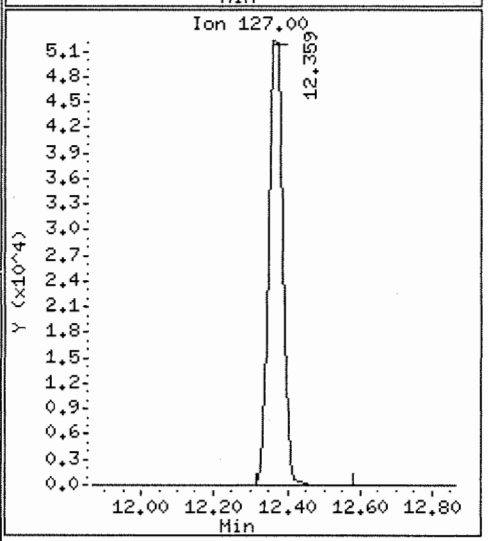
59 Dibromochloromethane

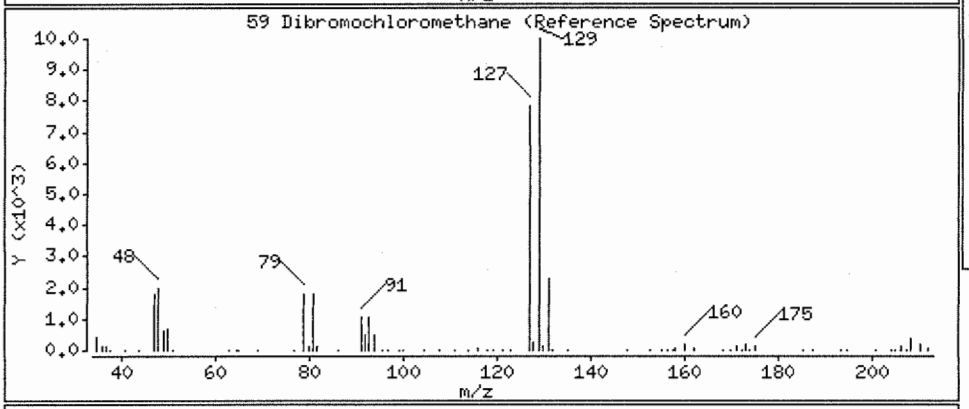
Concentration: 9.01 ug/L

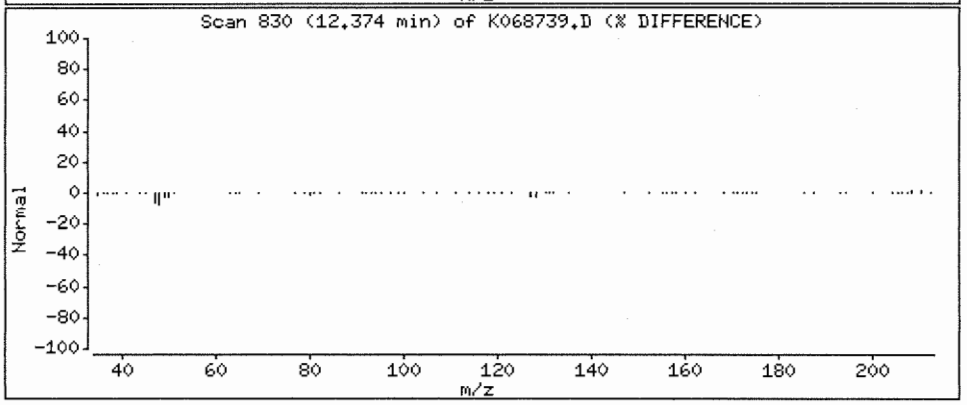












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

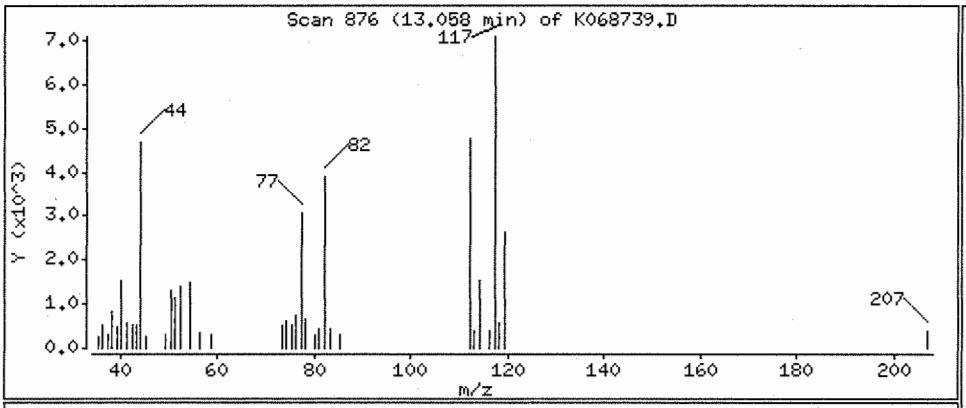
Operator: X

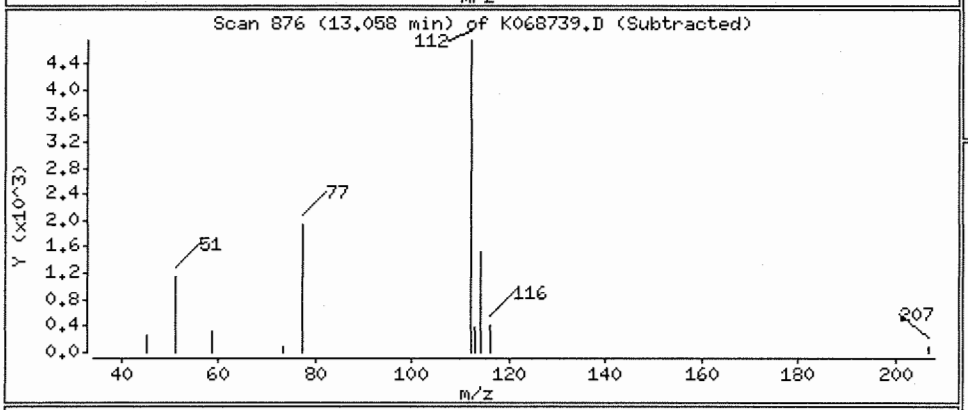
Column phase: DB-624

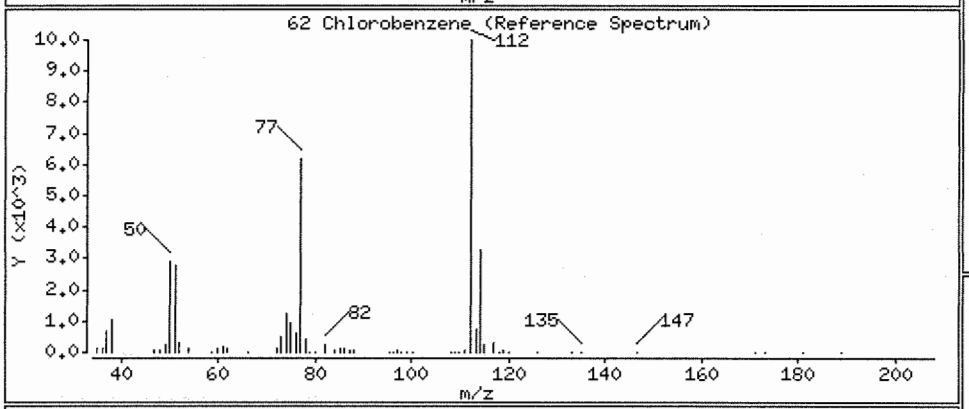
Column diameter: 0.32

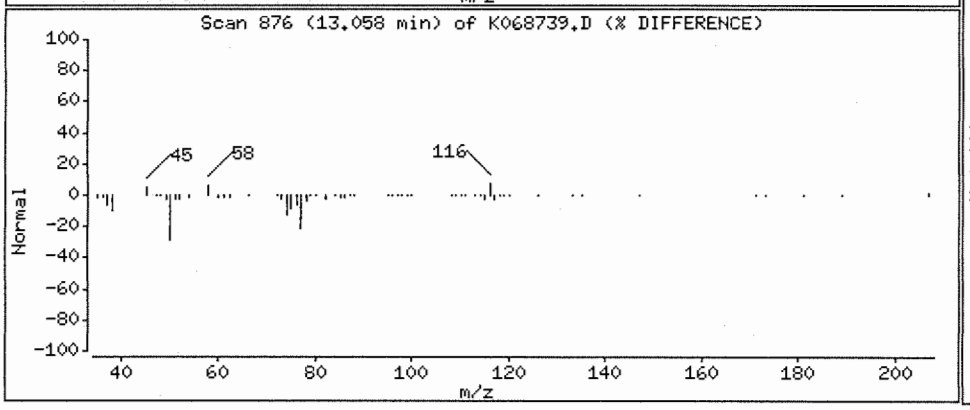
62 Chlorobenzene

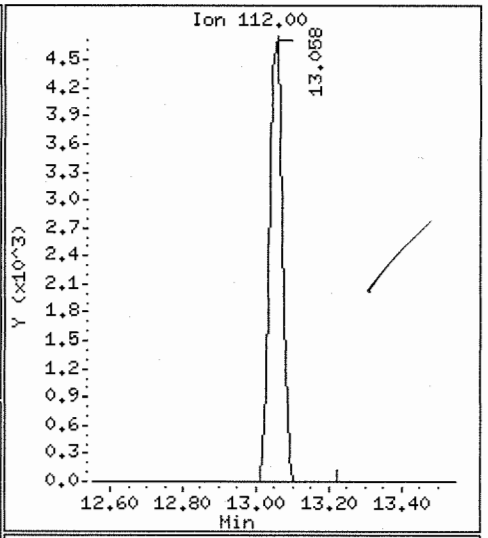
Concentration: 0.208 ug/L

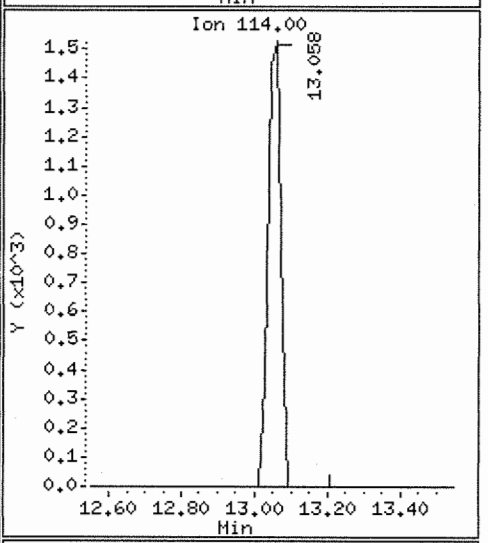


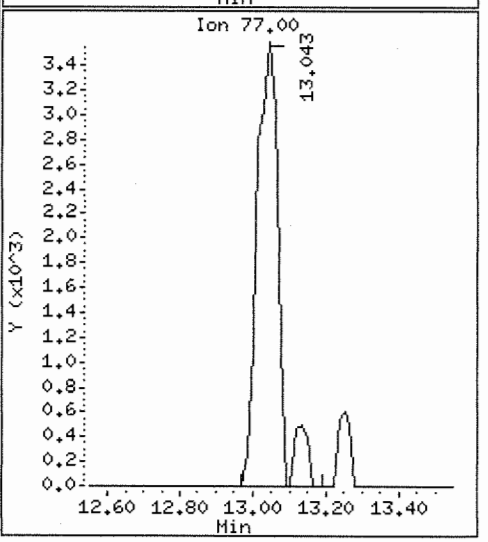












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

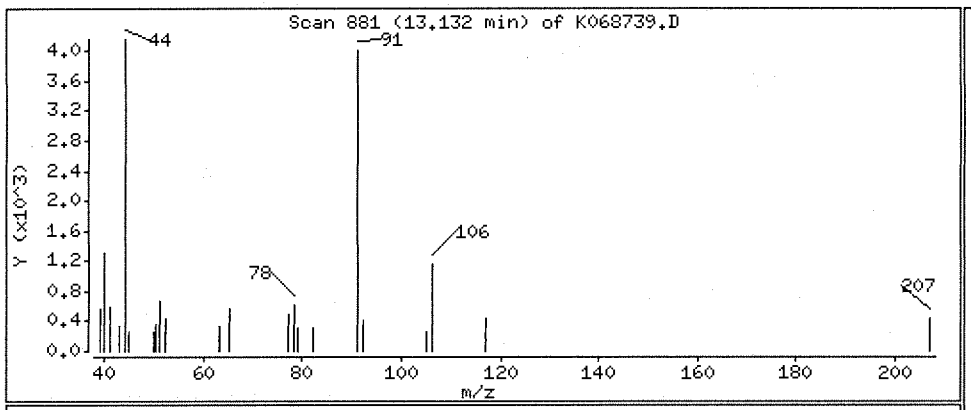
Operator: X

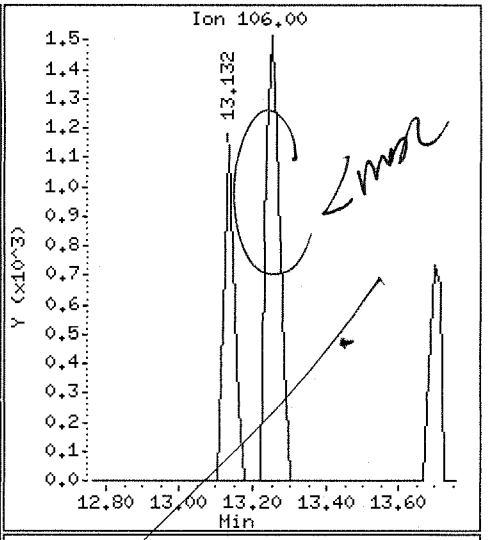
Column phase: DB-624

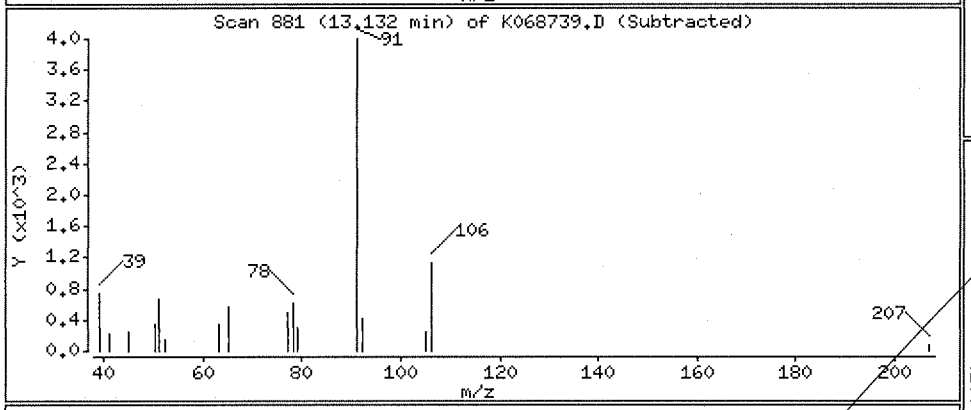
Column diameter: 0.32

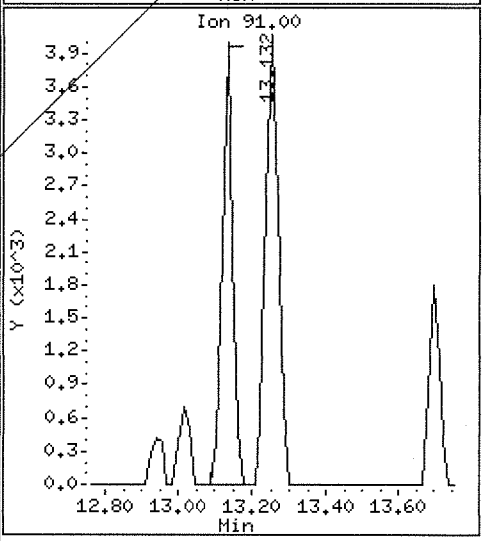
65 m-,p-Xylene

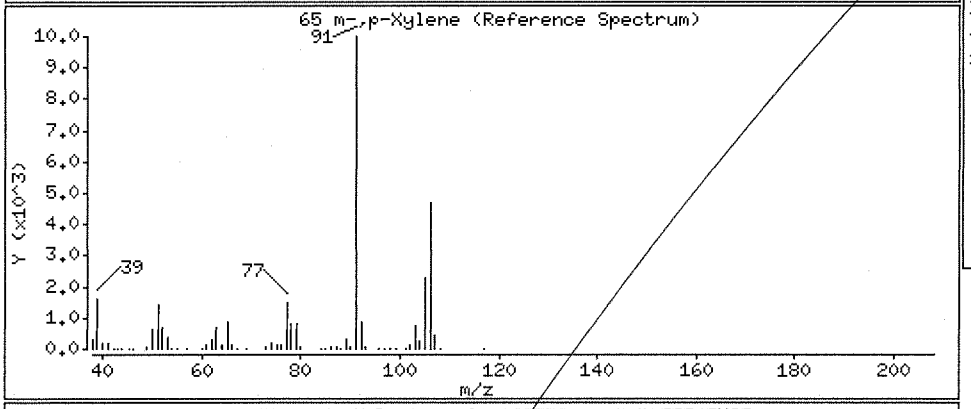
Concentration: 0.195 ug/L

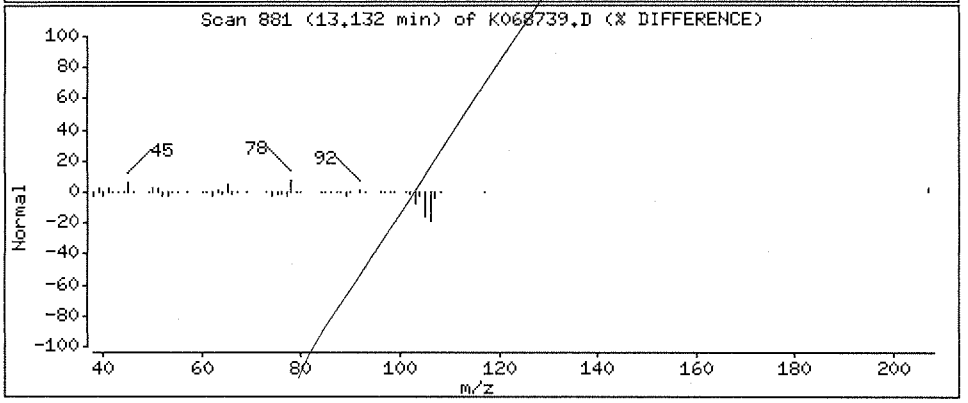












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

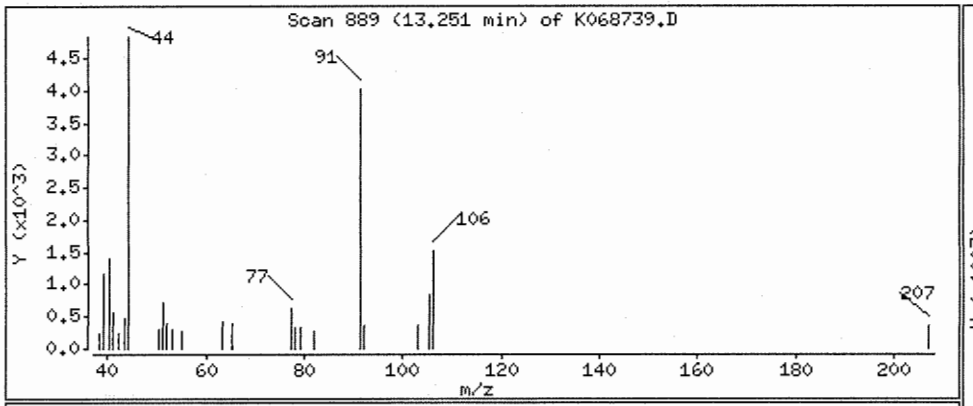
Operator: X

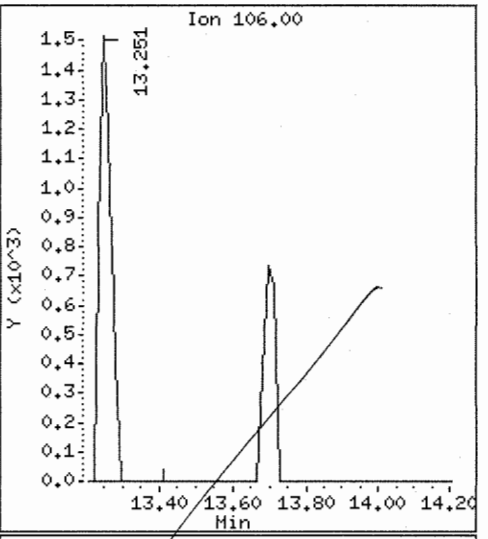
Column phase: DB-624

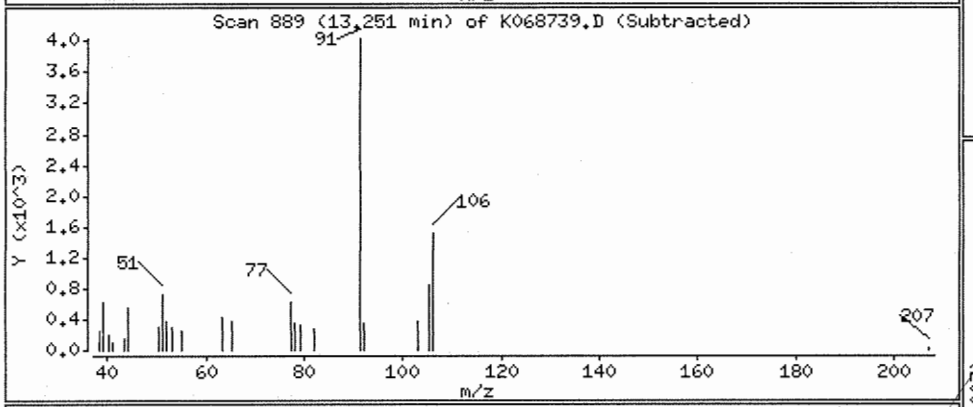
Column diameter: 0.32

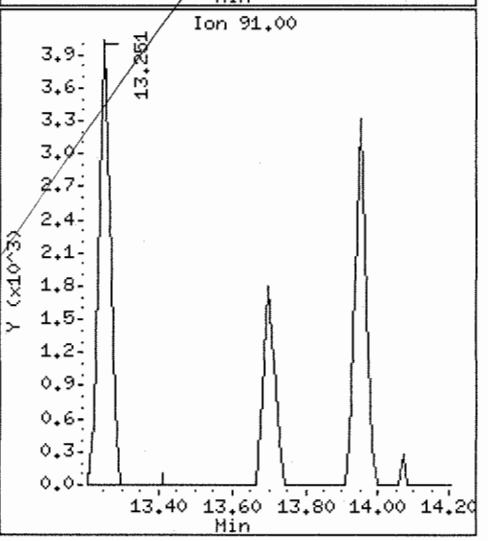
66 o-Xylene

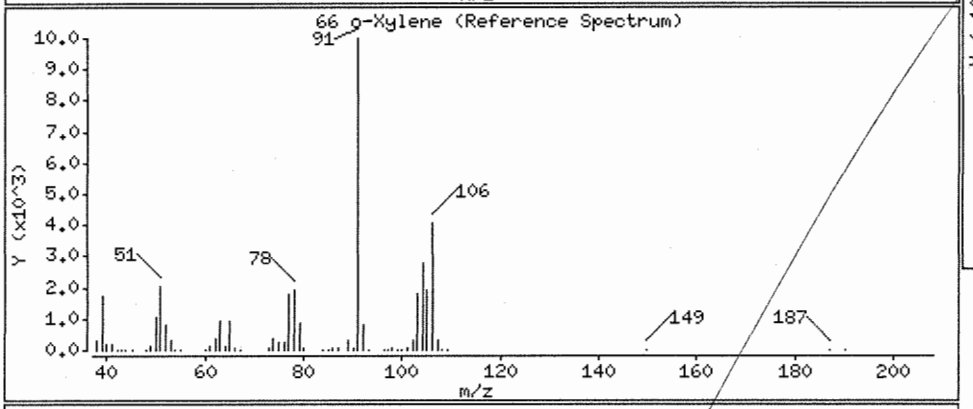
Concentration: 0.120 ug/L

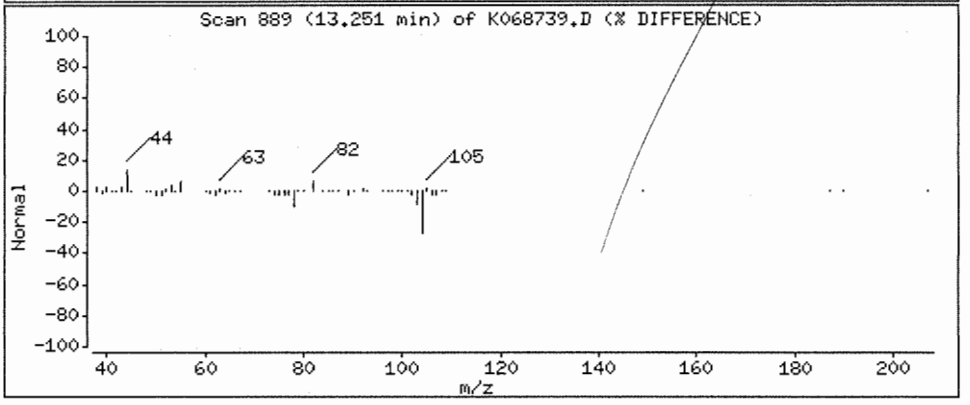












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068739.D

Date : 29-DEC-2006 11:53

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-001

Purge Volume: 10.0

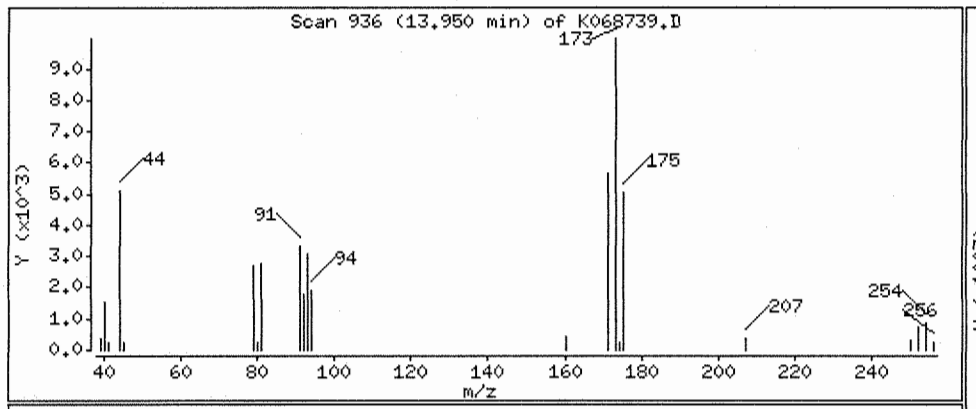
Operator: X

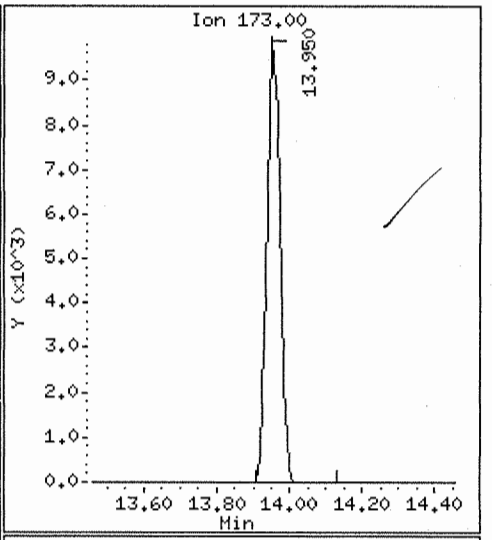
Column phase: DB-624

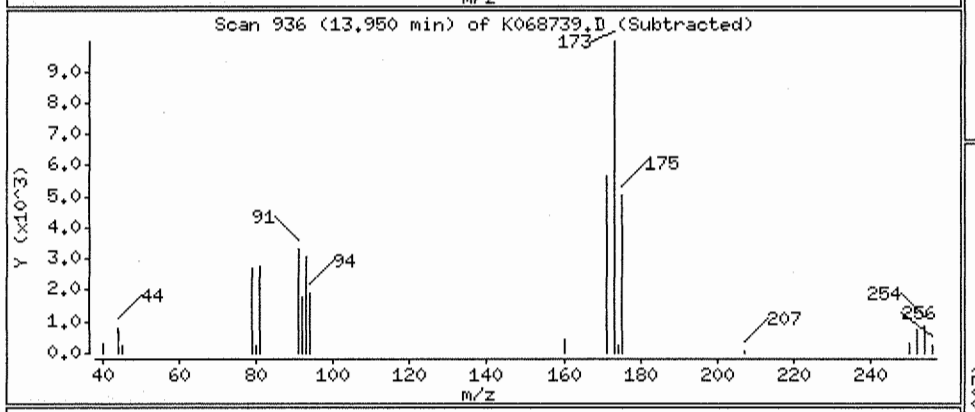
Column diameter: 0.32

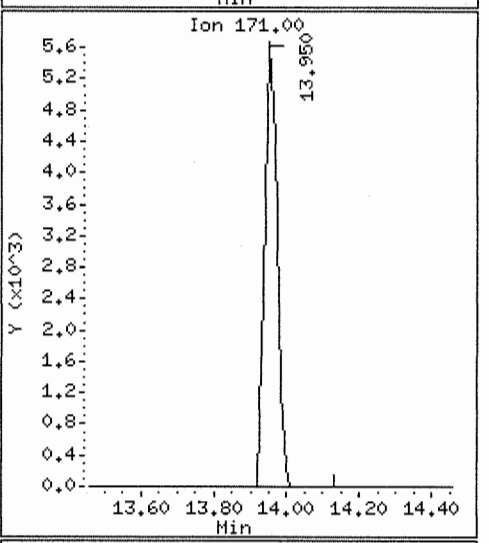
69 Bromoform

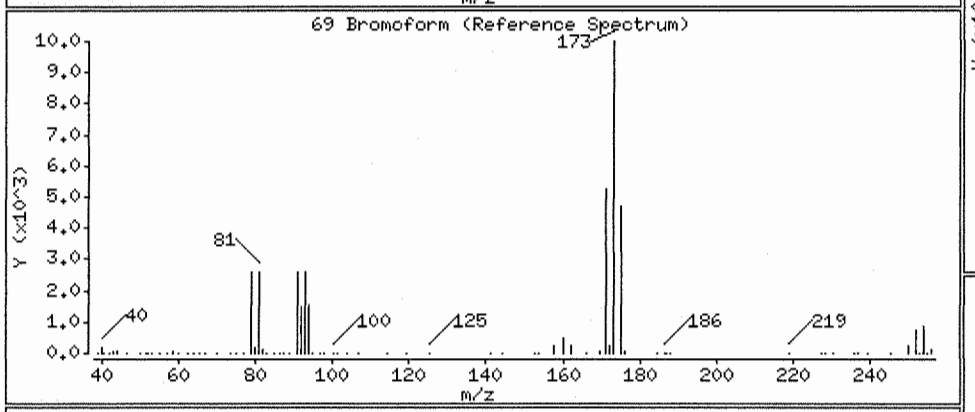
Concentration: 1.79 ug/L

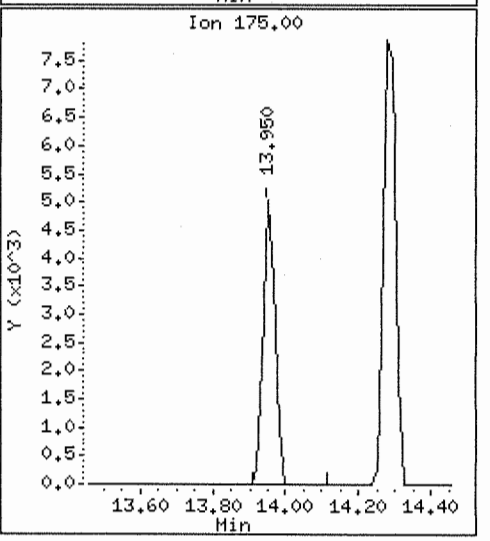


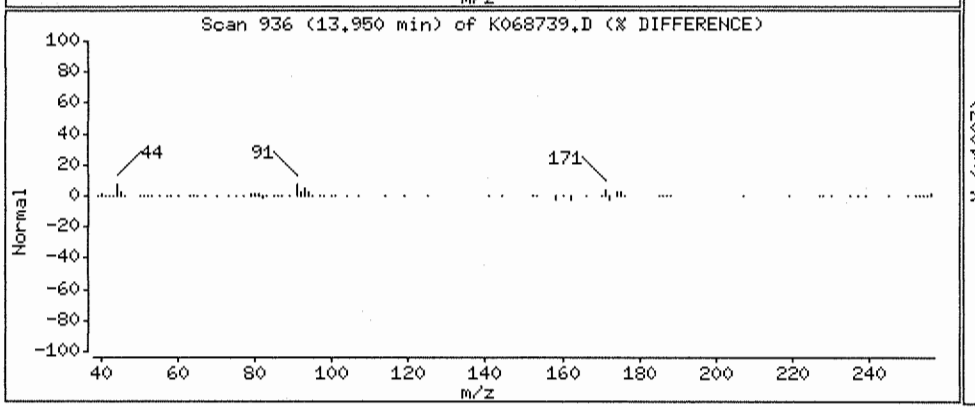












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-54-GW-11
Lab Code: D0602139-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	ND	U	0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**36**		0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	**0.20**	J	0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**0.82**	J	0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	ND	U	0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**3.5**	J	0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	ND	U	0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	**0.19**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	**0.72**	J	0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	**0.15**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	ND	U	0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	ND	U	0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-54-GW-11
Lab Code: D0602139-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	**0.19**	J	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	**0.97**	J	0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	ND	U	0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	**0.38**	J	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	ND	U	0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	**0.89**	J	0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	111	79-135	12/29/2006	
4-Bromofluorobenzene - SS	97	82-124	12/29/2006	
Dibromofluoromethane - SS	109	84-127	12/29/2006	
Toluene-d8 - SS	100	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D
Lab Smp Id: D0602139-002 Client Smp ID: T-54-GW-11
Inj Date : 29-DEC-2006 19:53
Operator : X Inst ID: MSK.i
Smp Info : D0602139-002
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 13:33 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

dl 02/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.686	9.670	(1.000)	695905	10.0000	
* 2 Chlorobenzene-d5	117	13.018	13.016	(1.000)	479908	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	15.606	15.604	(1.000)	254423	10.0000	
$ 4 Dibromofluoromethane	113	8.883	8.866	(0.917)	237585	10.8620	10.9
$ 5 1,2-Dichloroethane-d4	65	9.285	9.283	(0.959)	255805	11.0876	11.1
$ 6 Toluene-d8	98	11.427	11.425	(0.878)	613648	10.0098	10.0
$ 7 Bromofluorobenzene	174	14.282	14.280	(0.915)	213463	9.68714	9.69
8 Dichlorodifluoromethane	85	Compound Not Detected.					
10 Chloromethane	50	3.990	3.824	(0.412)	4318	0.24877	0.249(a)
11 Vinyl chloride	62	Compound Not Detected.					
12 Bromomethane	94	Compound Not Detected.					
13 Chloroethane	64	Compound Not Detected.					
14 Trichlorofluoromethane	101	Compound Not Detected.					
15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	6.072	6.070	(0.627)	154802	35.9936	36.0
21 Carbon disulfide	76	6.429	6.427	(0.664)	13641	0.20105	0.201(a)
22 Methylene chloride	84	6.712	6.695	(0.693)	17870	0.81873	0.819(a)
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
27 tert-Butylmethylether	73	Compound Not Detected.					
28 1,1-Dichloroethane	63	Compound Not Detected.					
30 Vinyl acetate	43	7.307	7.632	(0.754)	34729	0.50836	0.508(a)
32 2,2-Dichloropropane	77	Compound Not Detected.					

R 1/2/7

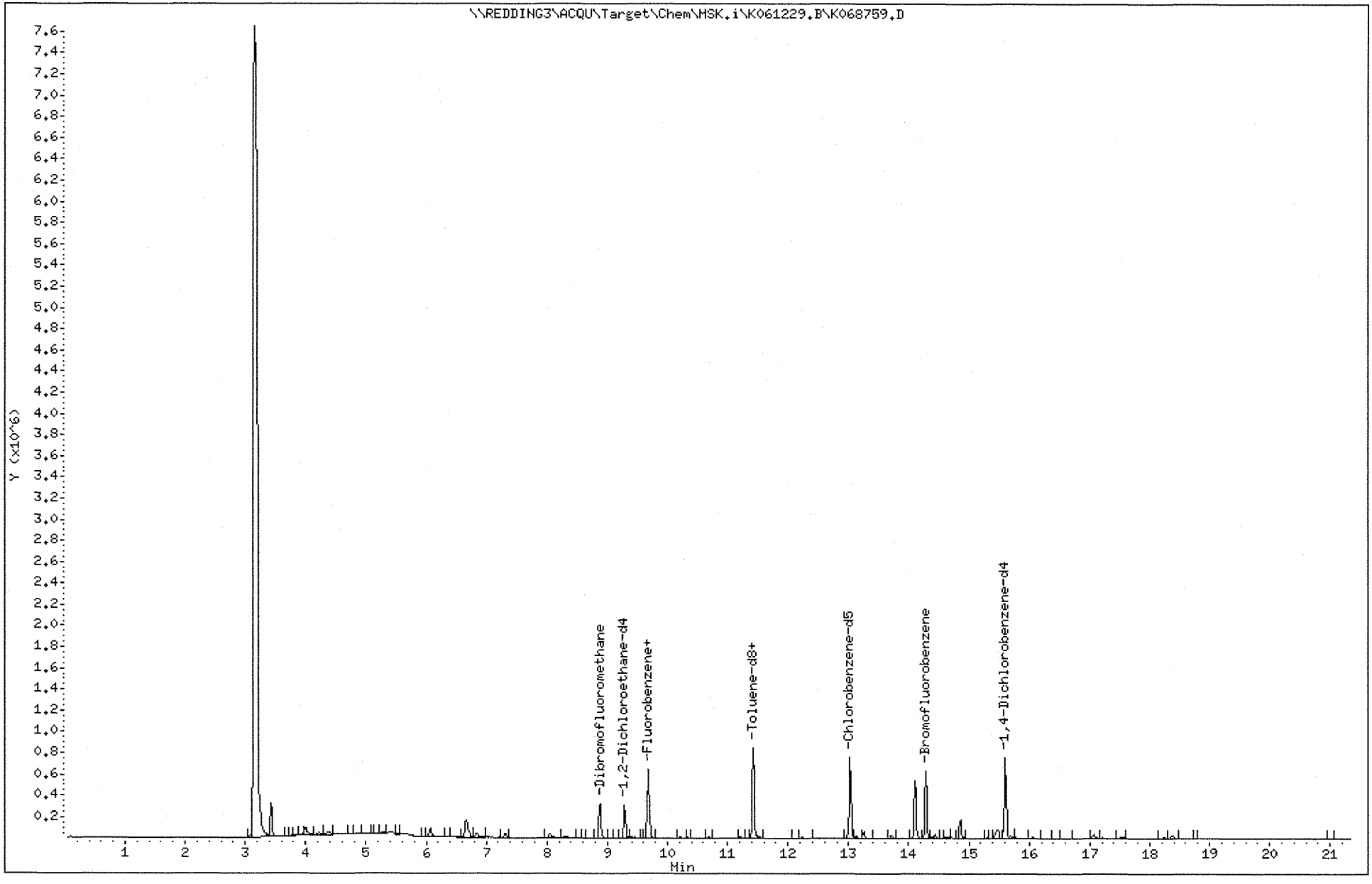
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.303	8.286	(0.857)	21556	3.51823	3.52(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	9.389	9.387	(0.969)	13835	0.19276	0.193(a)
44	1,2-Dichloroethane	62	9.672	9.372	(0.998)	9774	0.36647	0.366(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	11.218	11.202	(1.158)	10497	0.71853	0.718(a)
53	Toluene	92	11.501	11.499	(0.883)	6379	0.14558	0.146(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	13.137	13.135	(1.009)	15971	0.18768	0.188(a)
65	m-,p-Xylene	106	13.256	13.254	(1.018)	20095	0.70631	0.706(a)
66	o-Xylene	106	13.702	13.700	(1.053)	7266	0.26167	0.262(a)
M 67	Xylene (total)	106				27361	0.96798	0.968(a)
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	14.104	14.087	(1.083)	27514	0.37468	0.375(aQ)
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	14.104	14.533	(0.904)	2502	0.14020	0.140(aQ)
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	15.487	15.084	(0.992)	33116	0.61698	0.617(aQ)
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	15.487	15.485	(0.992)	52765	0.89342	0.893(a)
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D
Date : 29-DEC-2006 19:53
Client ID: T-54-GW-11
Sample Info: D0602139-002
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

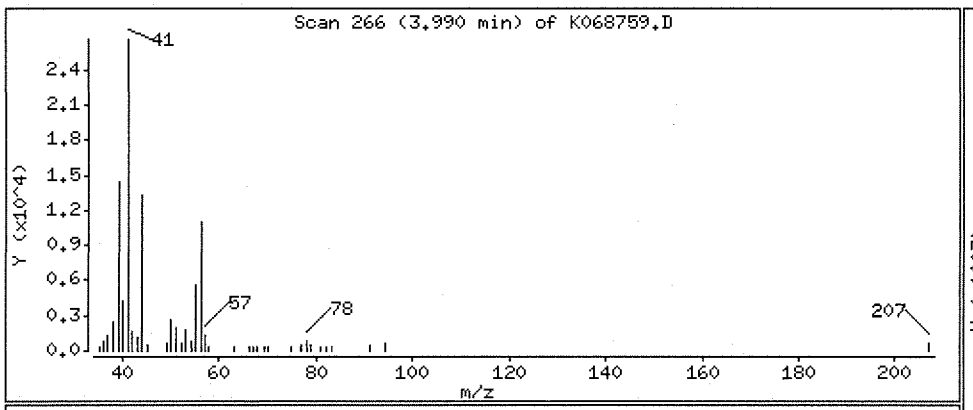
Client ID: T-54-GW-11 Instrument: MSK.i

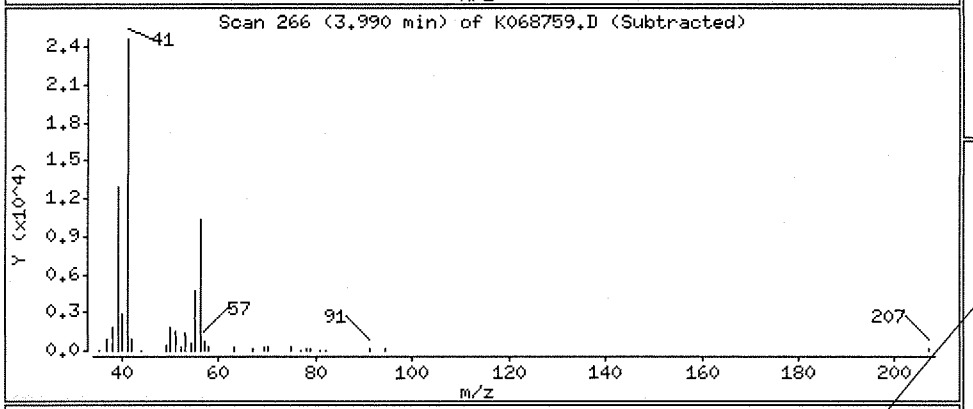
Sample Info: D0602139-002

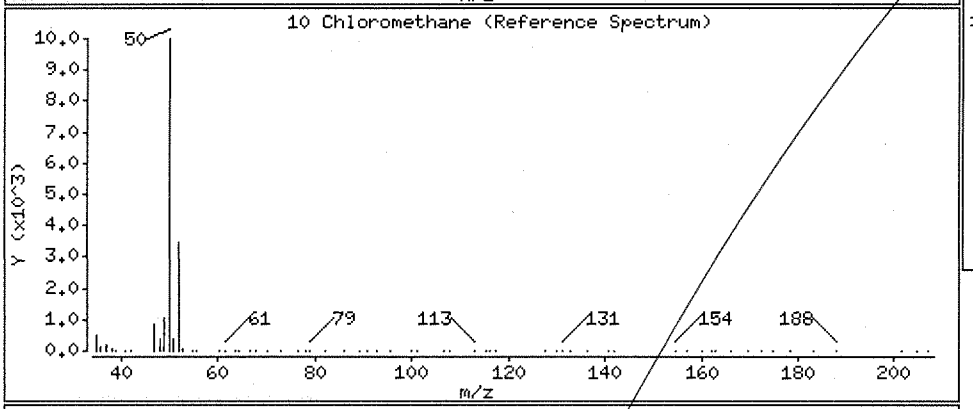
Purge Volume: 10.0 Operator: X

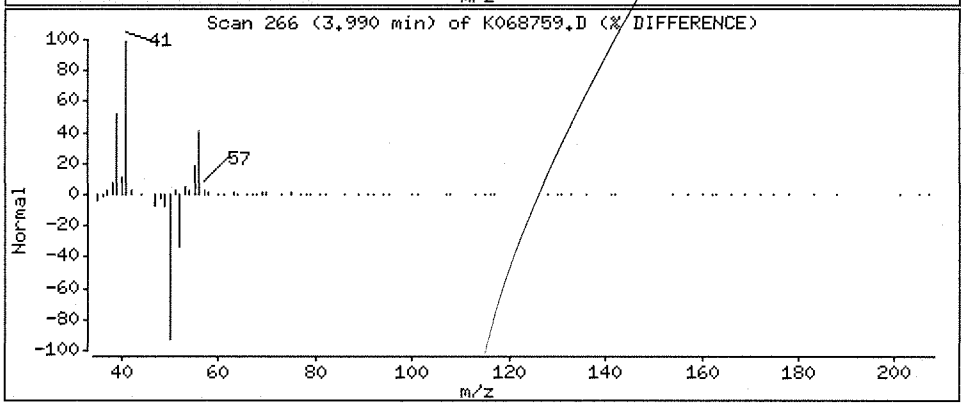
Column phase: DB-624 Column diameter: 0.32

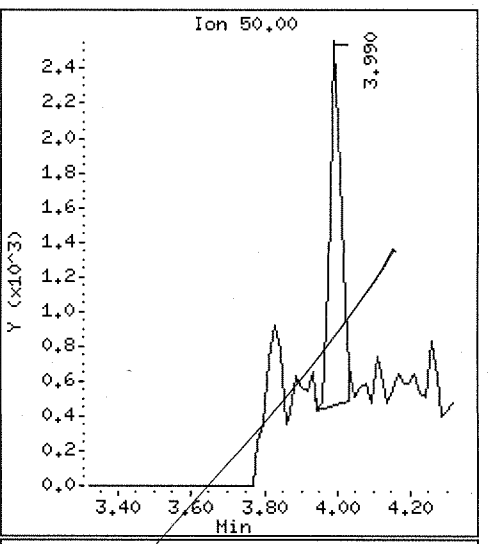
10 Chloromethane Concentration: 0.249 ug/L

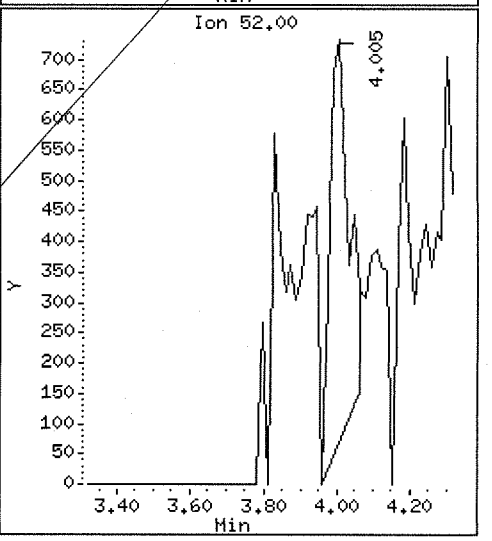












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Date : 29-DEC-2006 19:53

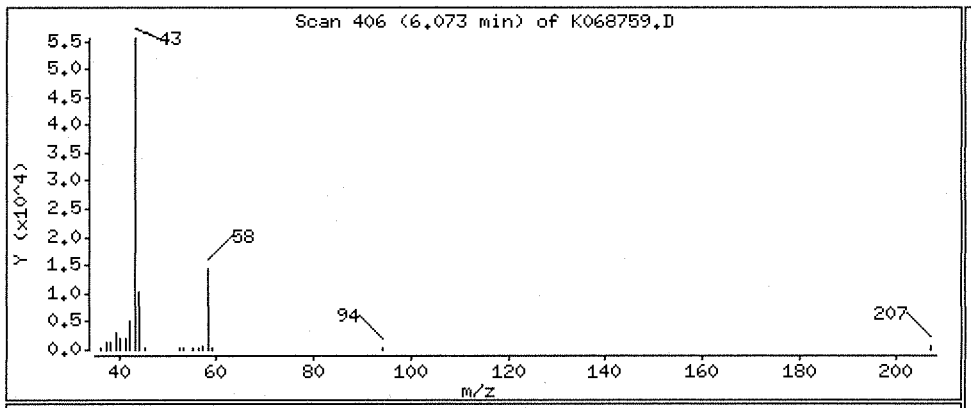
Client ID: T-54-GW-11 Instrument: MSK.i

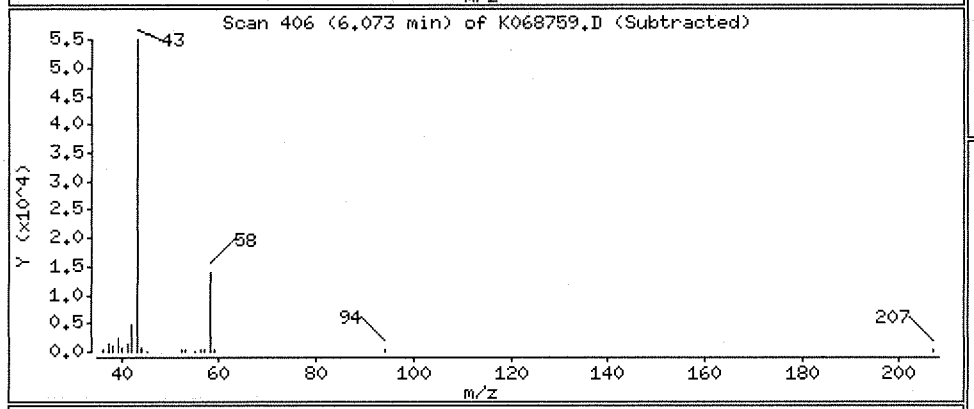
Sample Info: D0602139-002

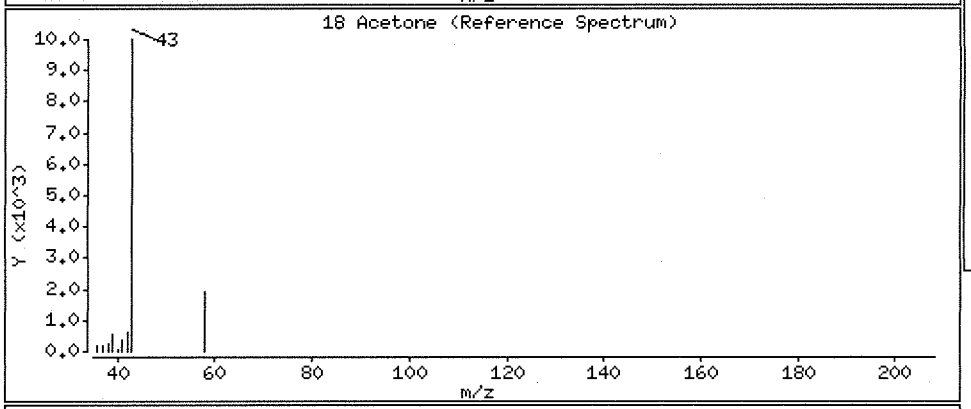
Purge Volume: 10.0 Operator: X

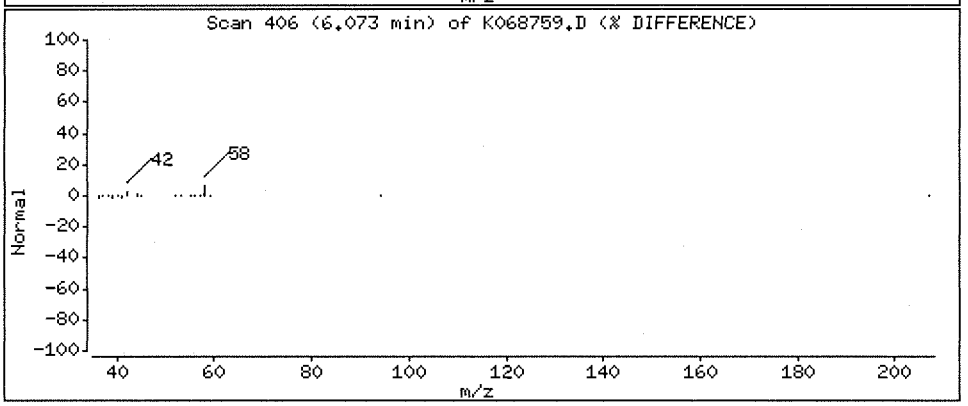
Column phase: DB-624 Column diameter: 0.32

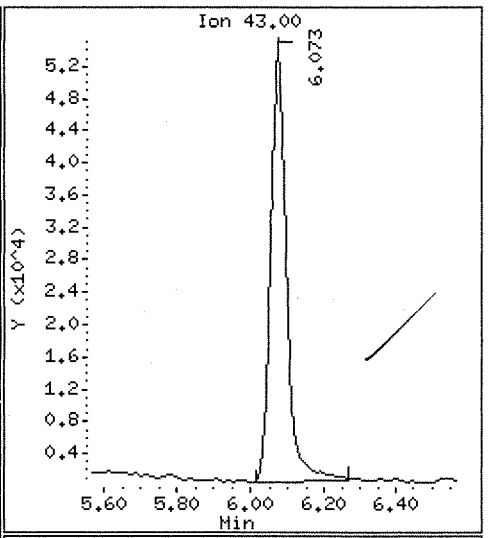
18 Acetone Concentration: 36.0 ug/L

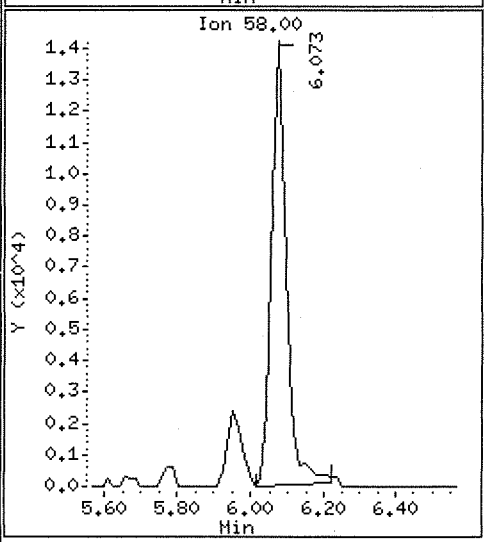












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

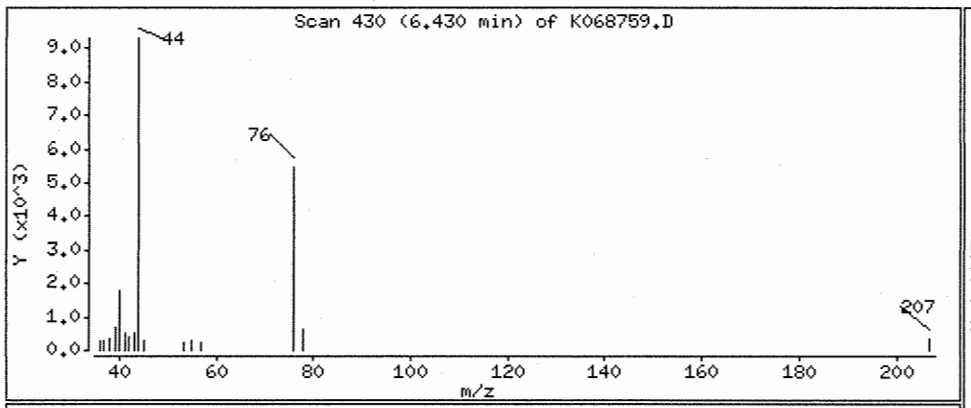
Client ID: T-54-GW-11 Instrument: MSK.i

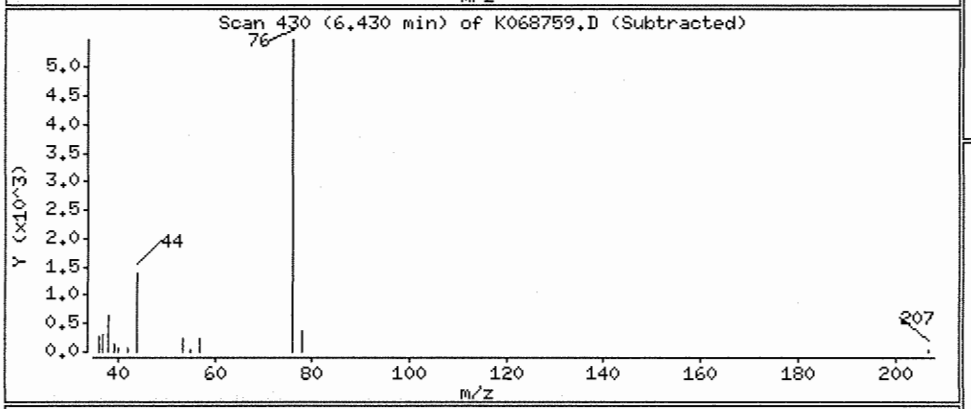
Sample Info: D0602139-002

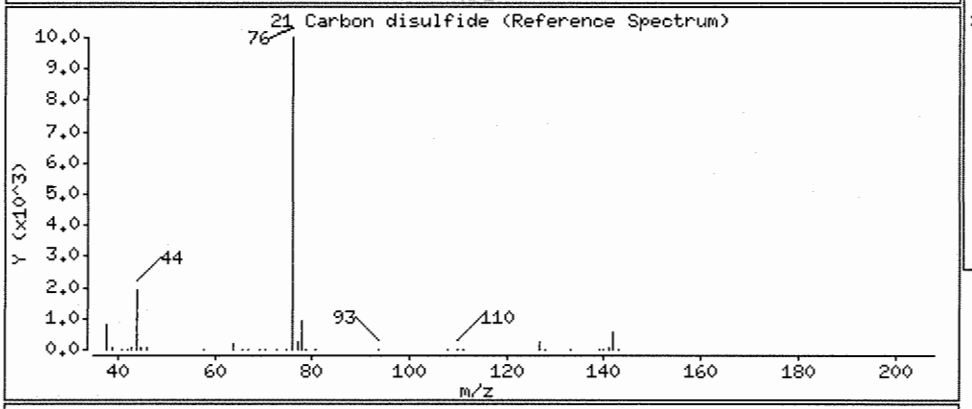
Purge Volume: 10.0 Operator: X

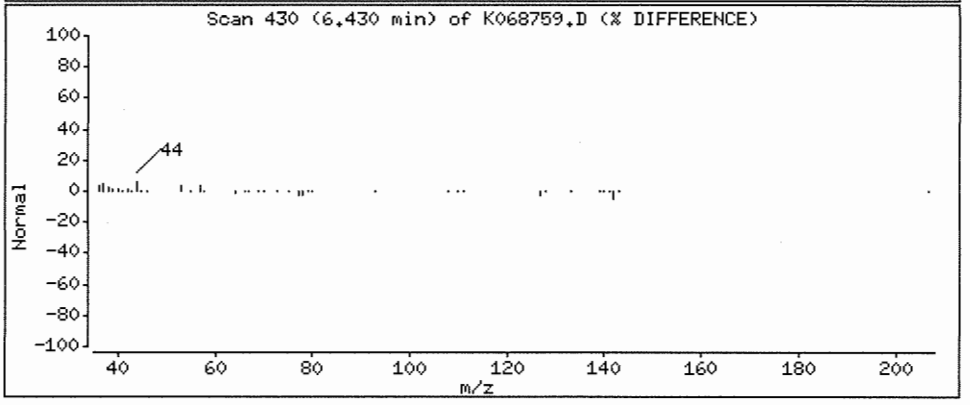
Column phase: DB-624 Column diameter: 0.32

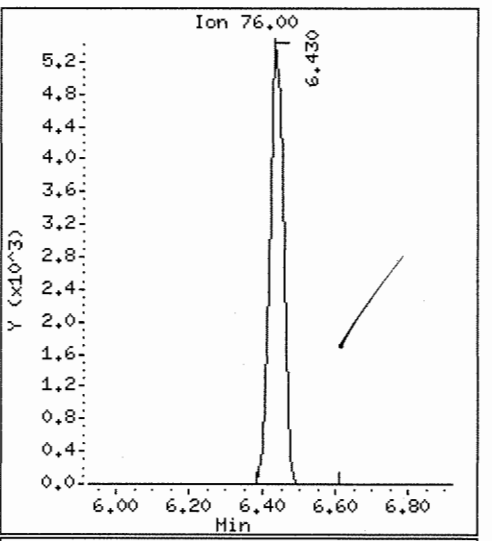
21 Carbon disulfide Concentration: 0.201 ug/L

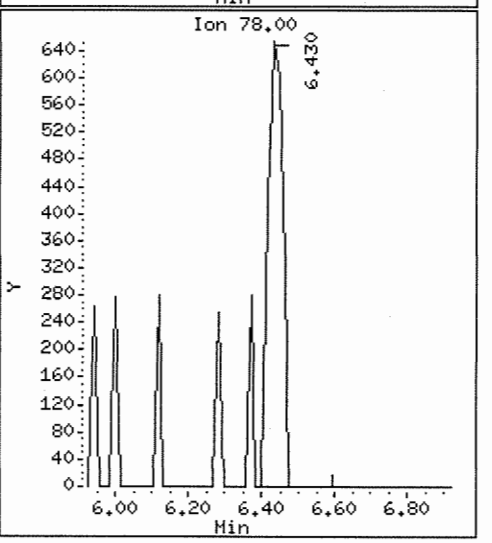












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

Client ID: T-54-GW-11

Instrument: MSK.i

Sample Info: D0602139-002

Purge Volume: 10.0

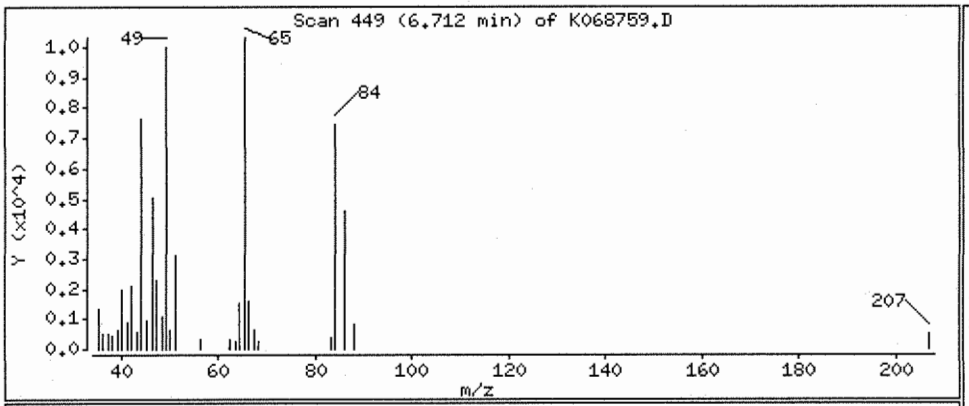
Operator: X

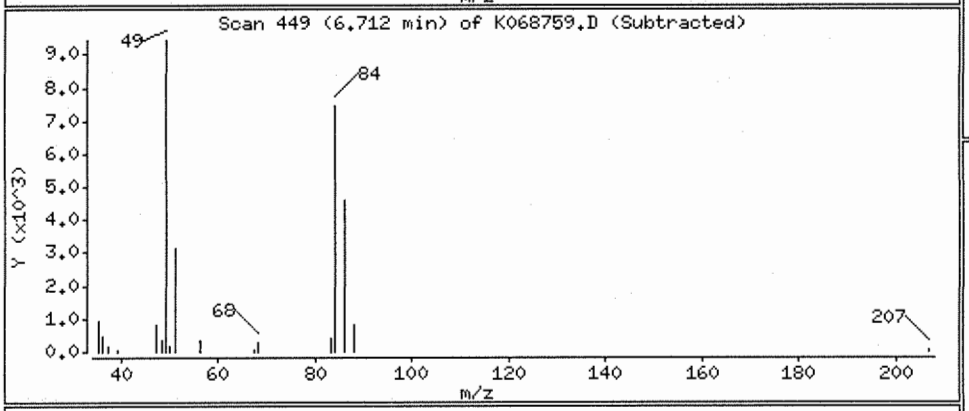
Column phase: DB-624

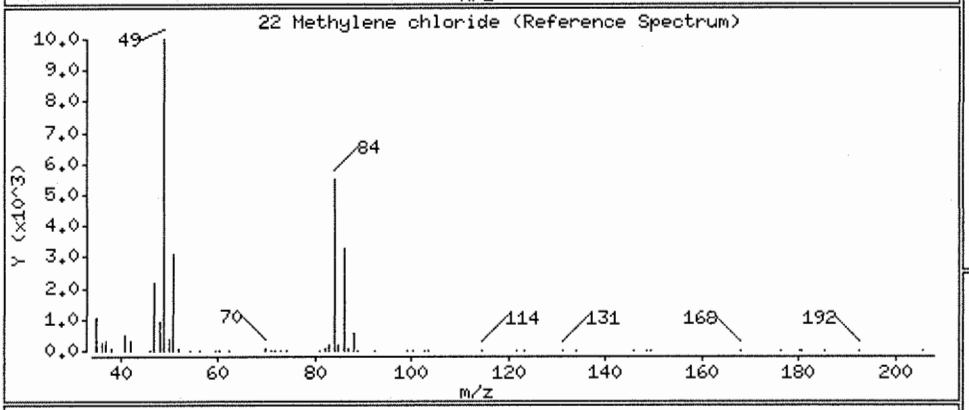
Column diameter: 0.32

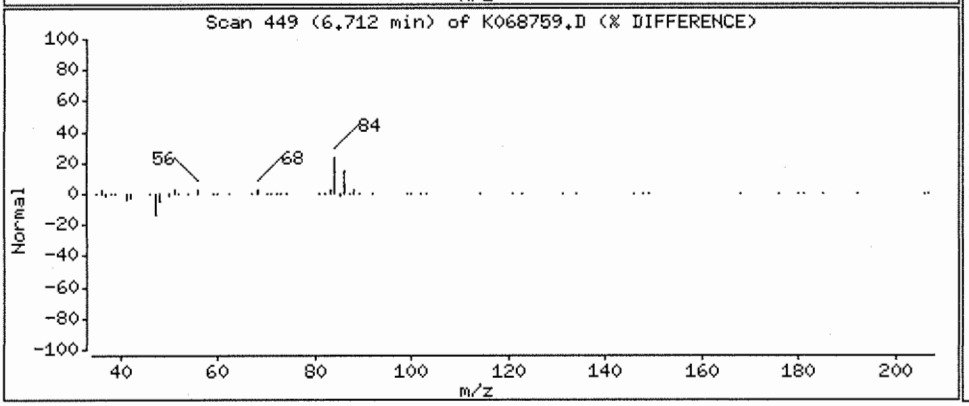
22 Methylene chloride

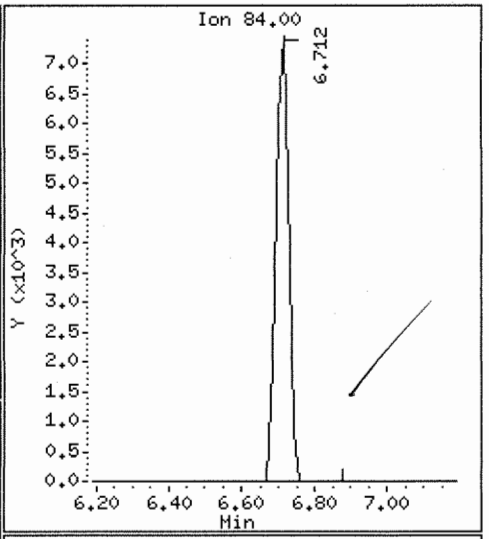
Concentration: 0.819 ug/L

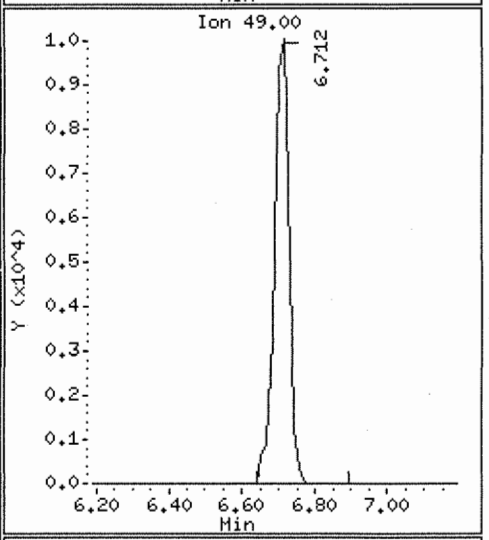


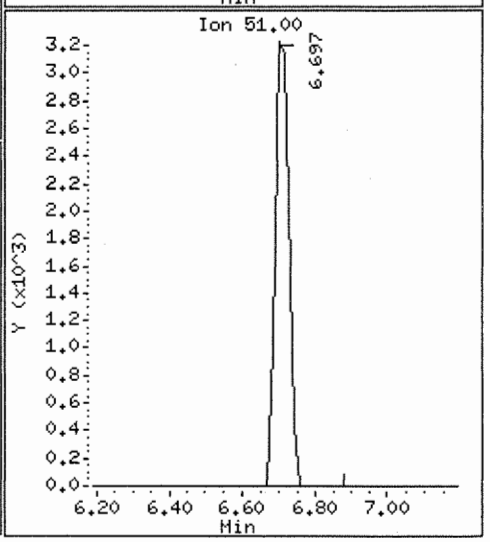












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

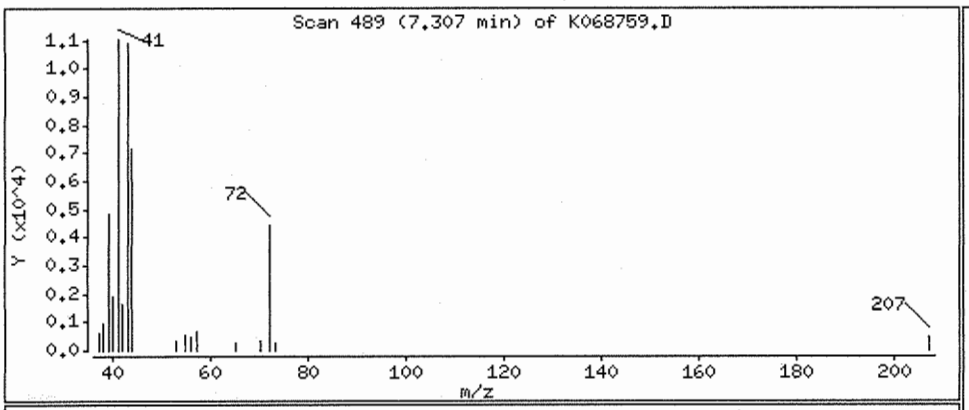
Client ID: T-54-GW-11 Instrument: MSK.i

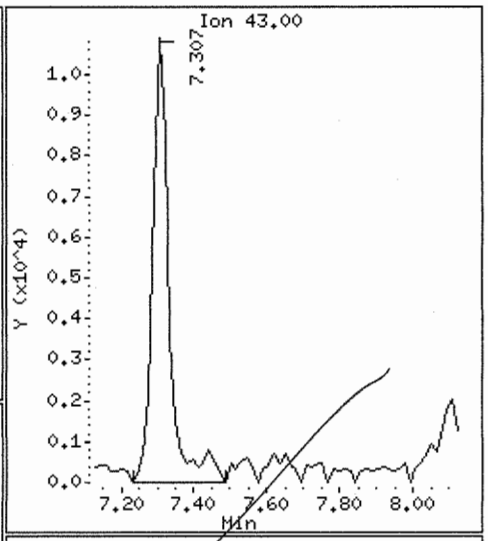
Sample Info: D0602139-002

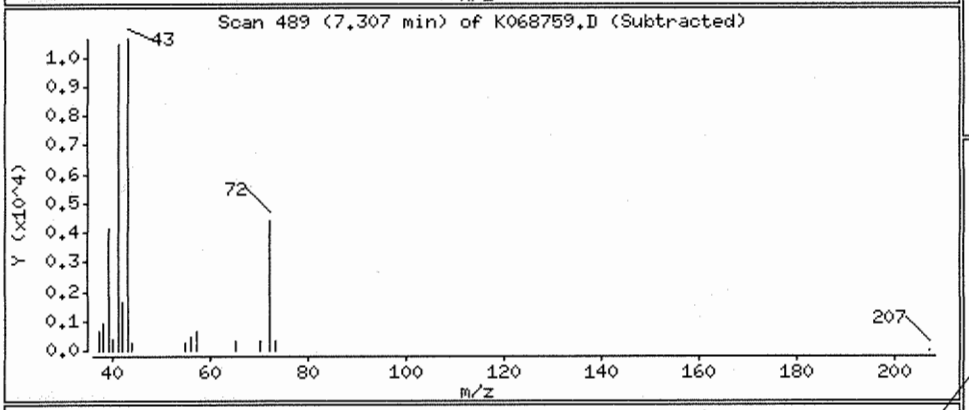
Purge Volume: 10.0 Operator: X

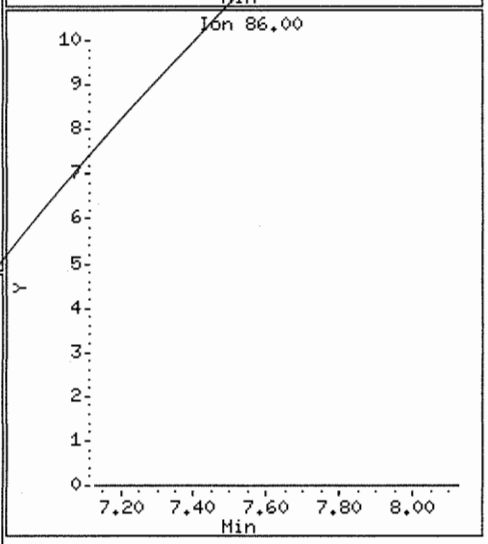
Column phase: DB-624 Column diameter: 0.32

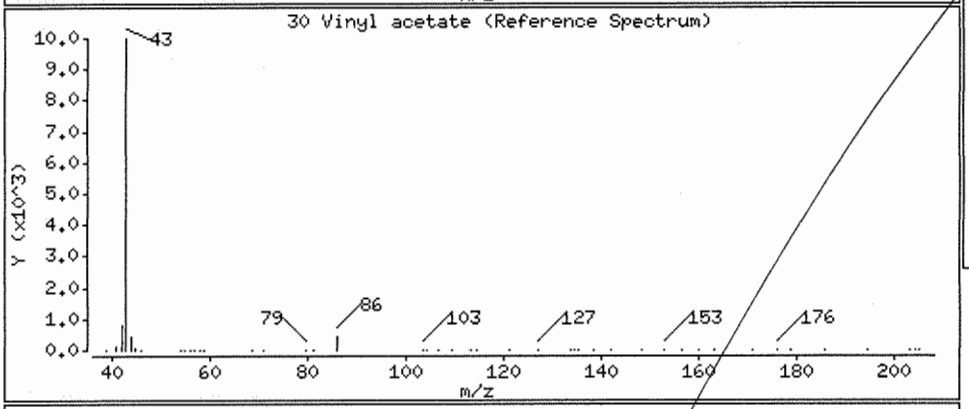
30 Vinyl acetate Concentration: 0.508 ug/L

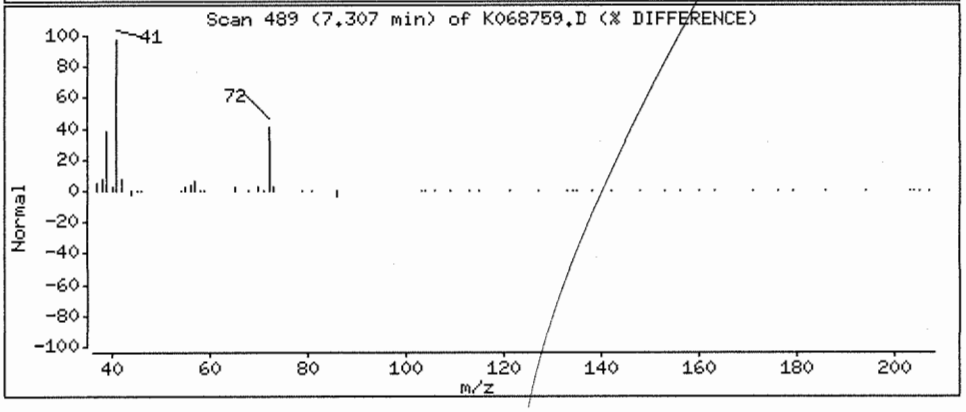












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

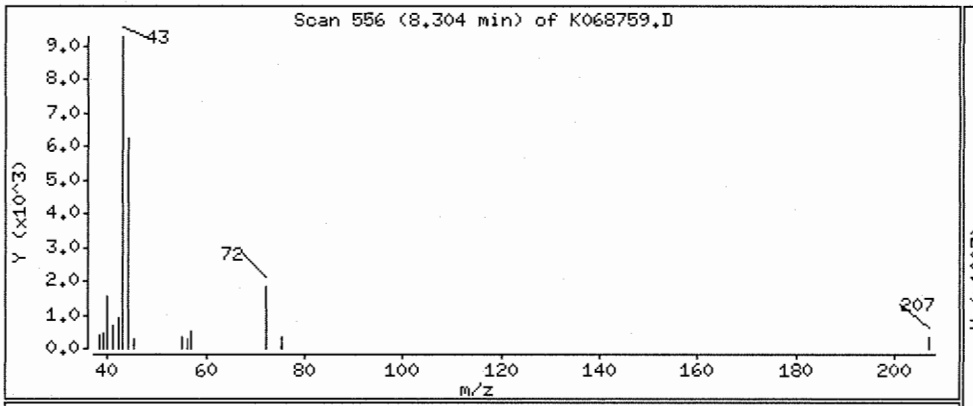
Client ID: T-54-GW-11 Instrument: MSK.i

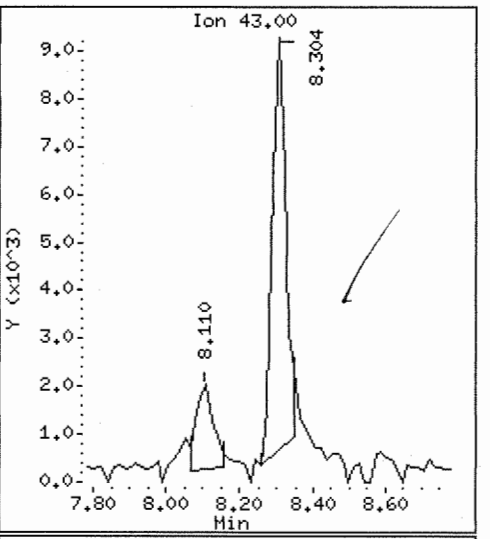
Sample Info: D0602139-002

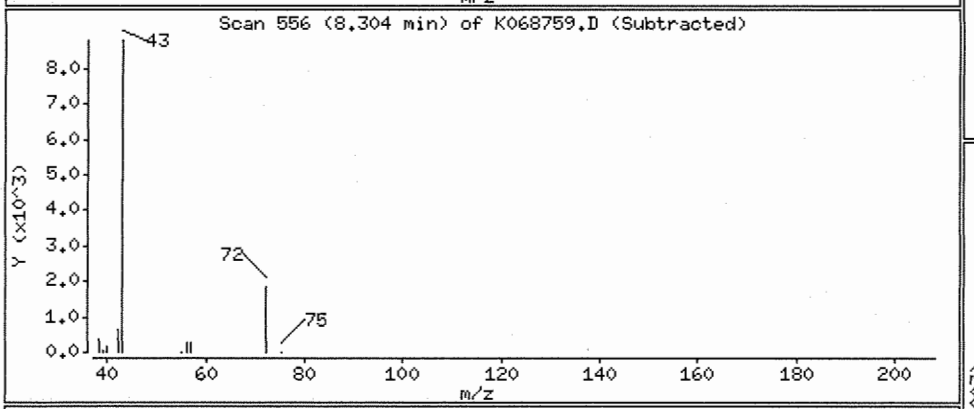
Purge Volume: 10.0 Operator: X

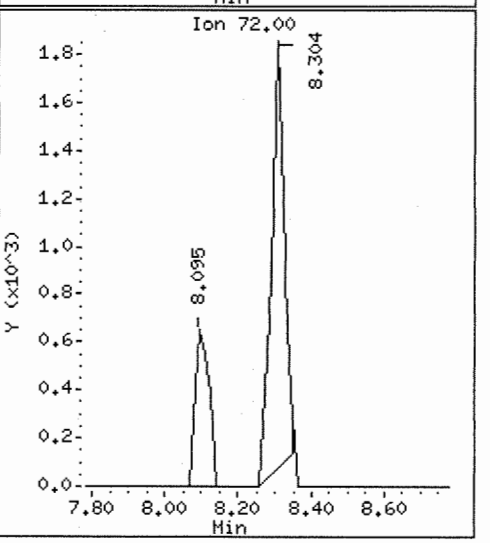
Column phase: DB-624 Column diameter: 0.32

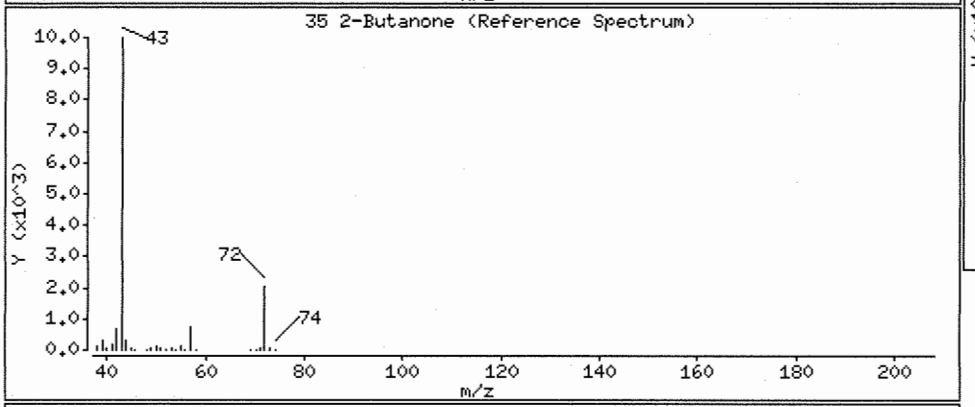
35 2-Butanone Concentration: 3.52 ug/L

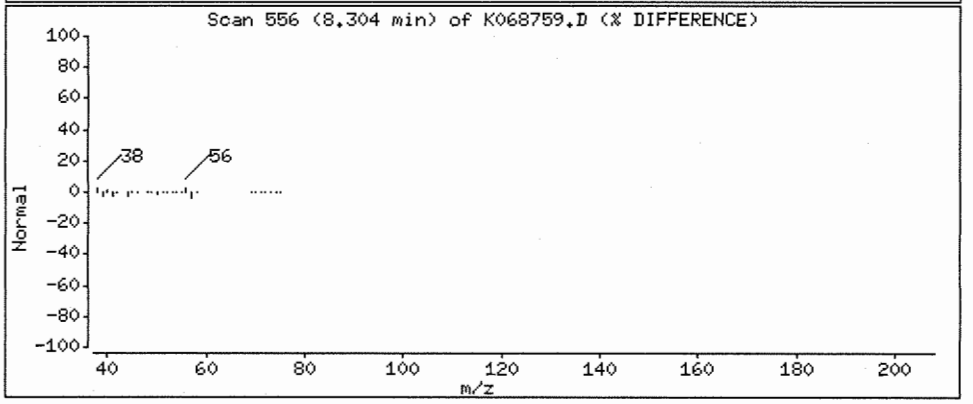












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

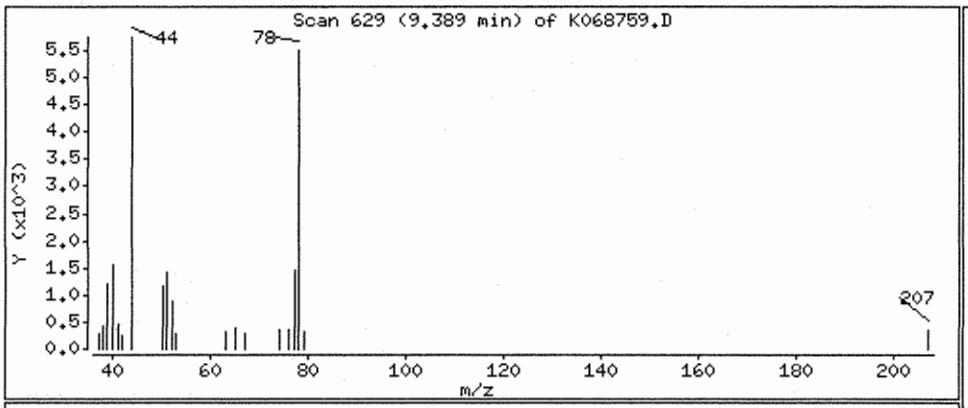
Client ID: T-54-GW-11 Instrument: MSK.i

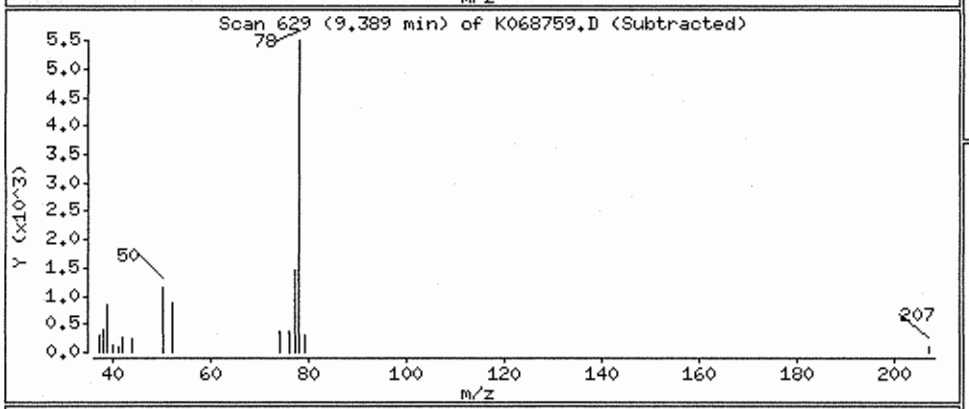
Sample Info: D0602139-002

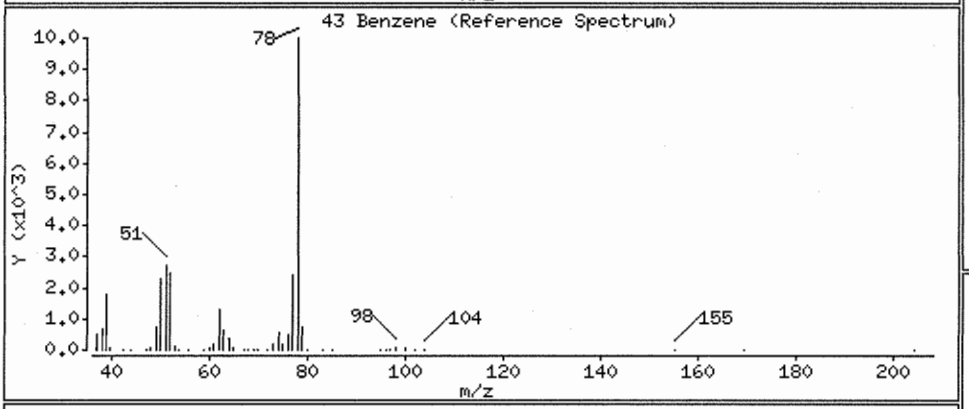
Purge Volume: 10.0 Operator: X

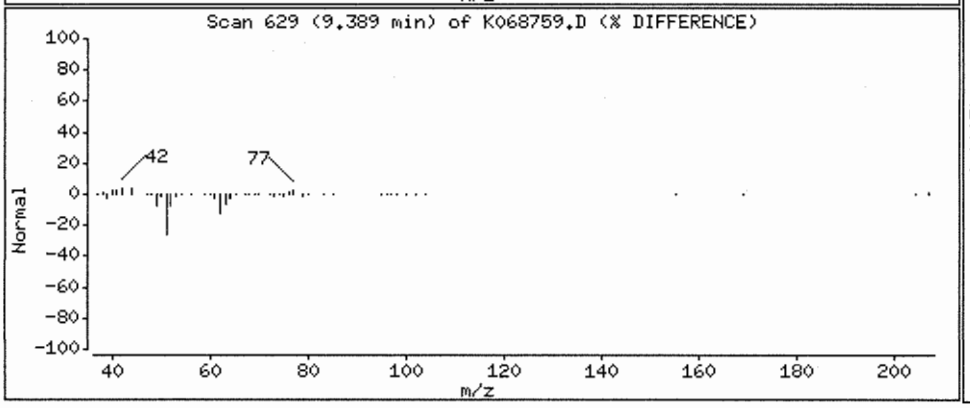
Column phase: DB-624 Column diameter: 0.32

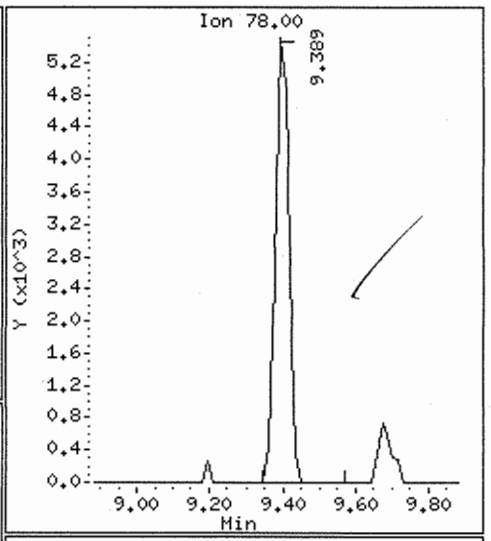
43 Benzene Concentration: 0.193 ug/L

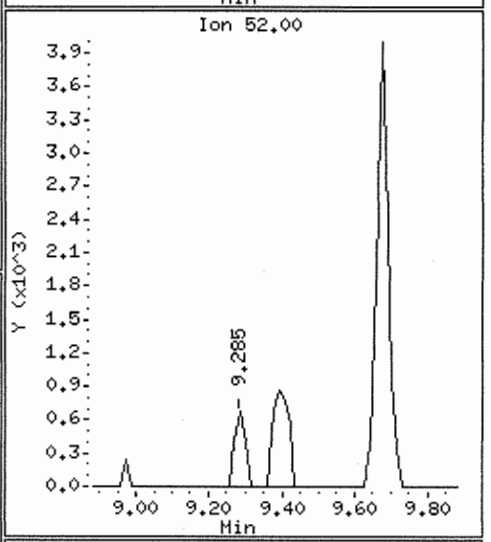


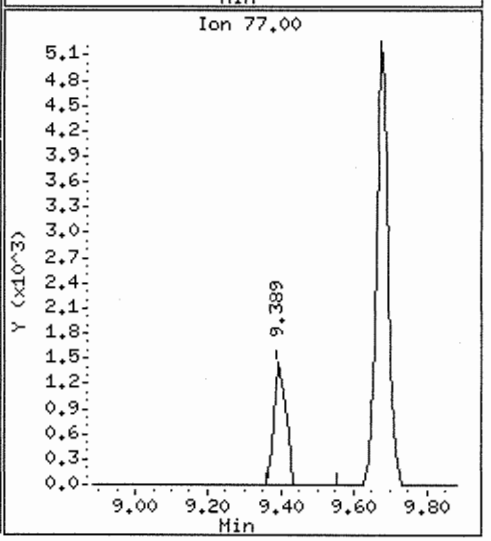












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

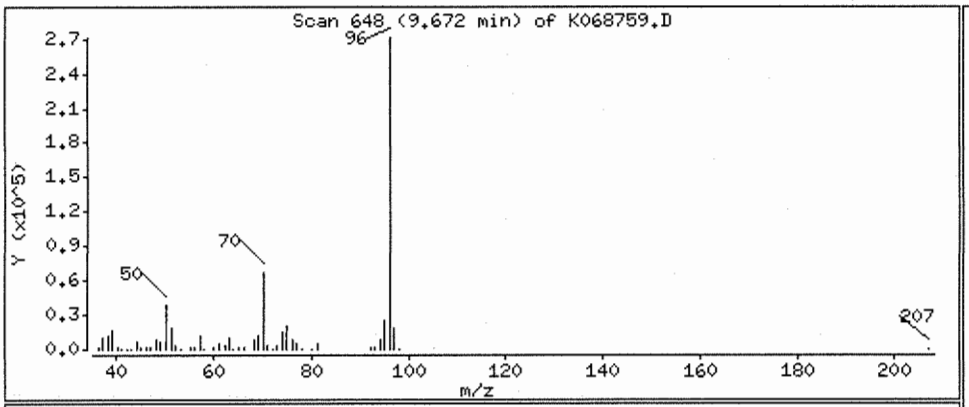
Client ID: T-54-GW-11 Instrument: MSK.i

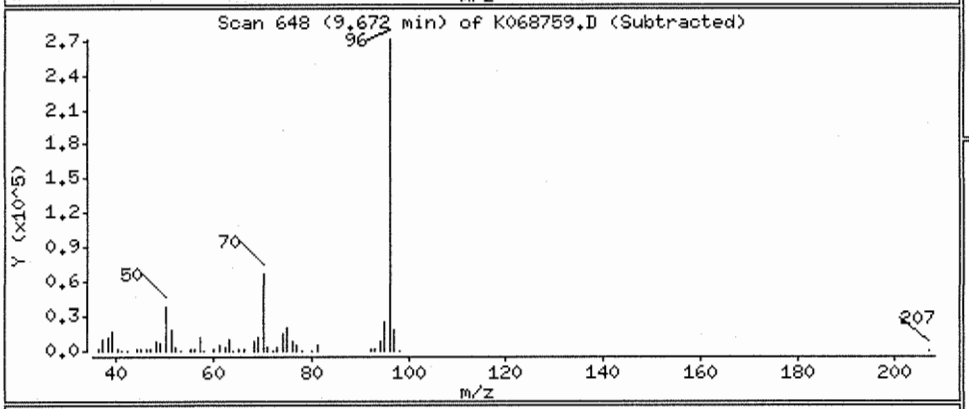
Sample Info: D0602139-002

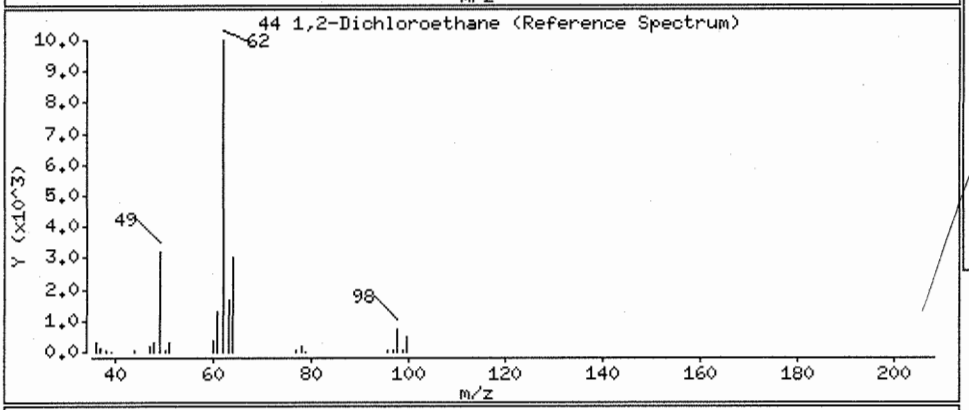
Purge Volume: 10.0 Operator: X

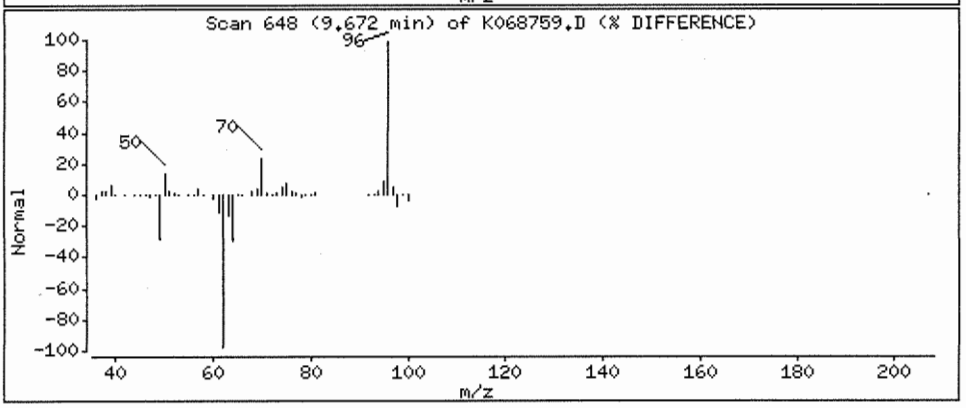
Column phase: DB-624 Column diameter: 0.32

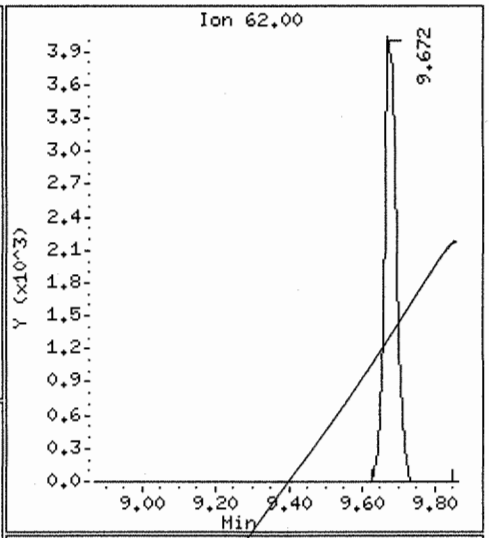
44 1,2-Dichloroethane Concentration: 0.366 ug/L

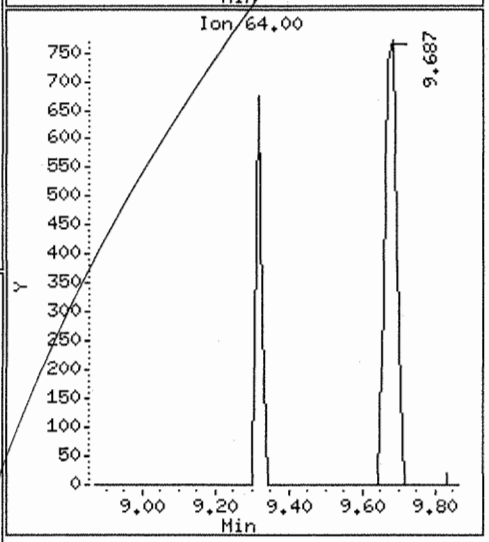












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

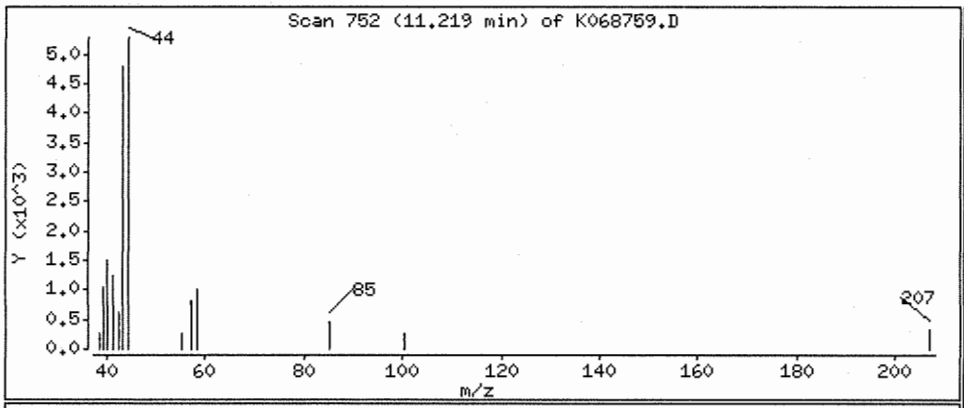
Client ID: T-54-GW-11 Instrument: MSK.i

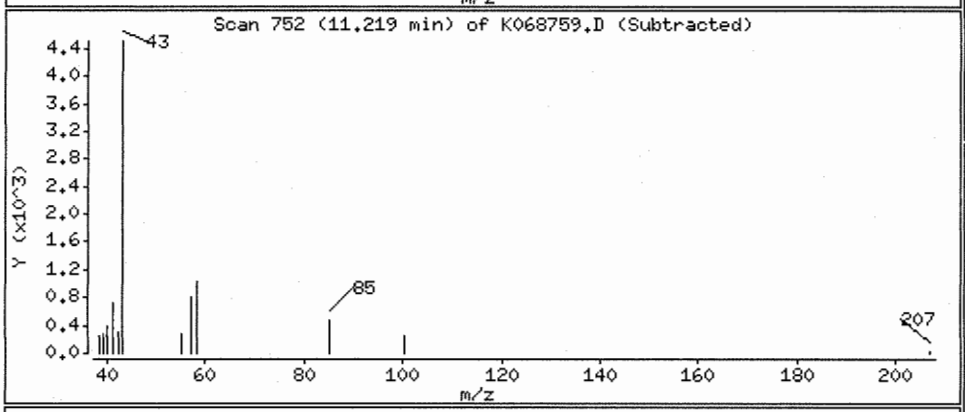
Sample Info: D0602139-002

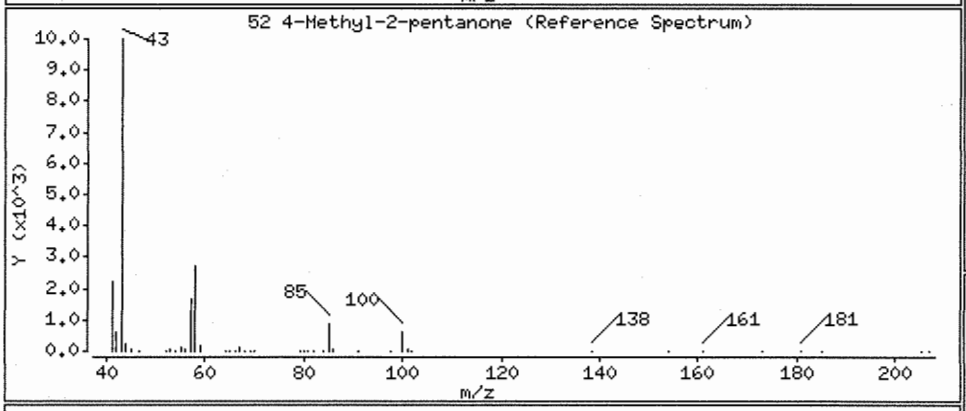
Purge Volume: 10.0 Operator: X

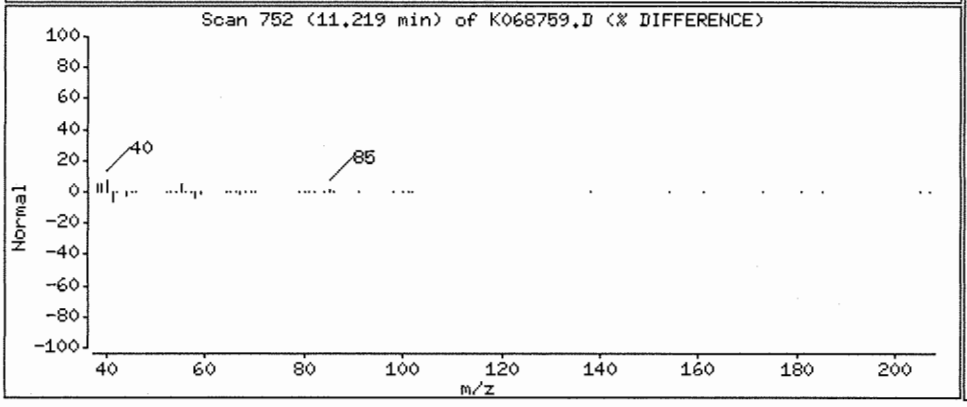
Column phase: DB-624 Column diameter: 0.32

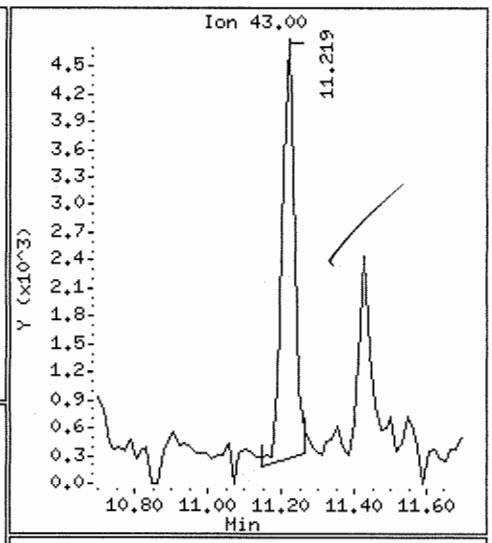
52 4-Methyl-2-pentanone Concentration: 0.718 ug/L

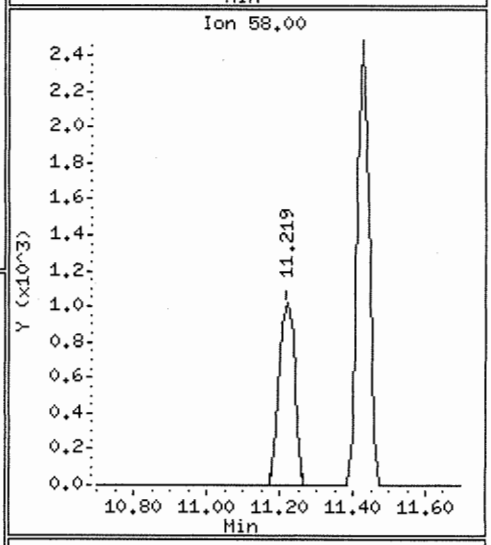


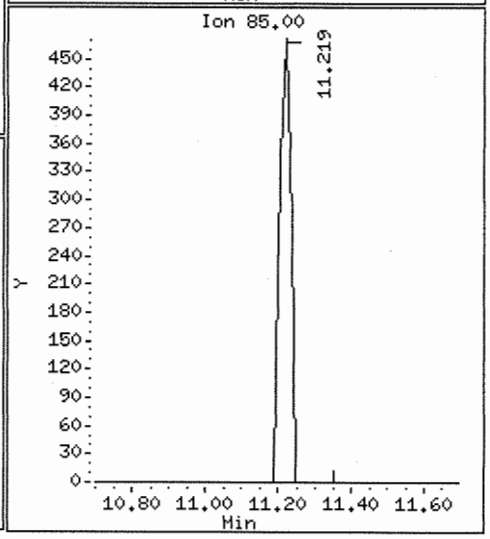












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

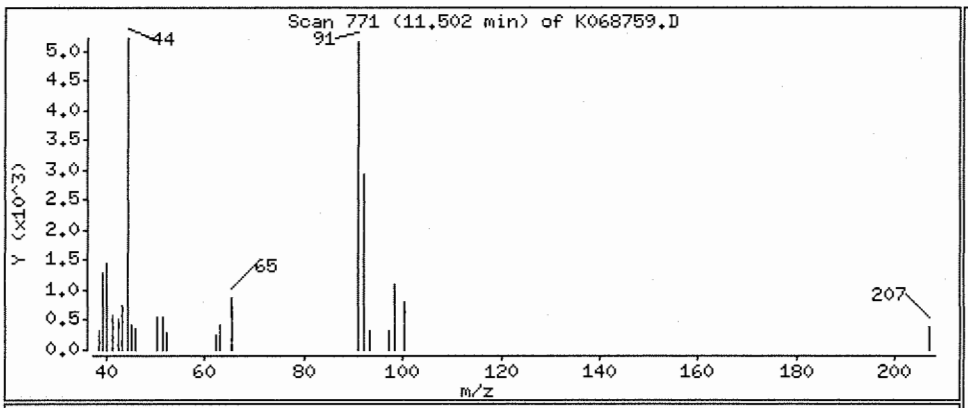
Client ID: T-54-GW-11 Instrument: MSK.i

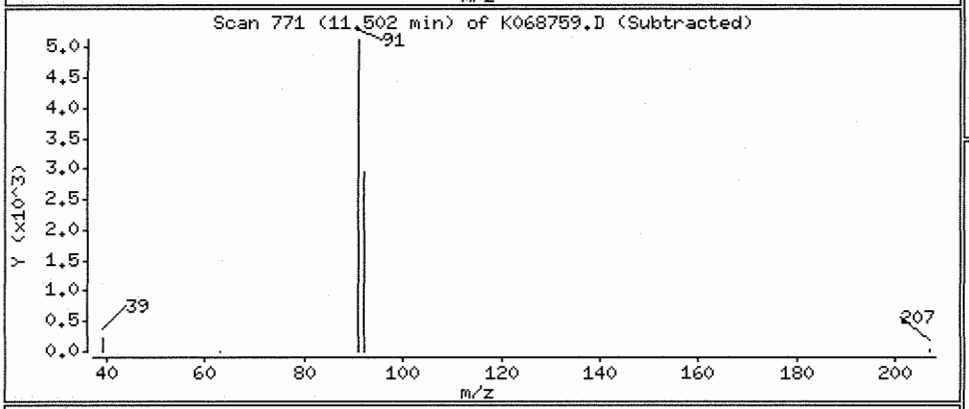
Sample Info: D0602139-002

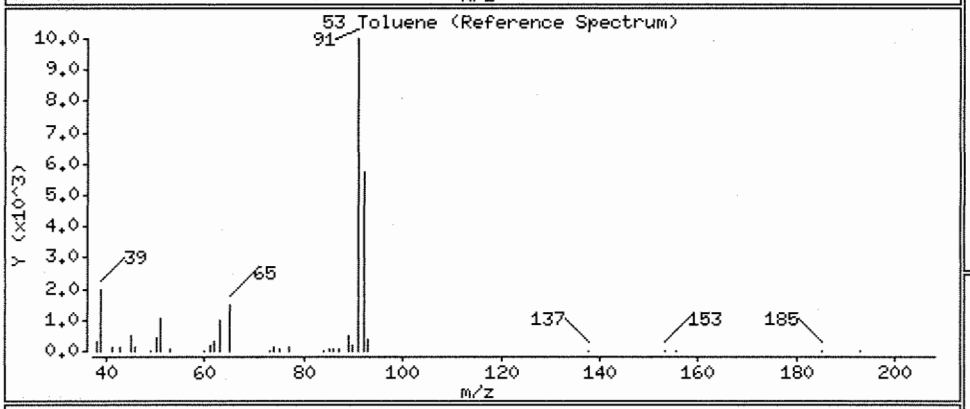
Purge Volume: 10.0 Operator: X

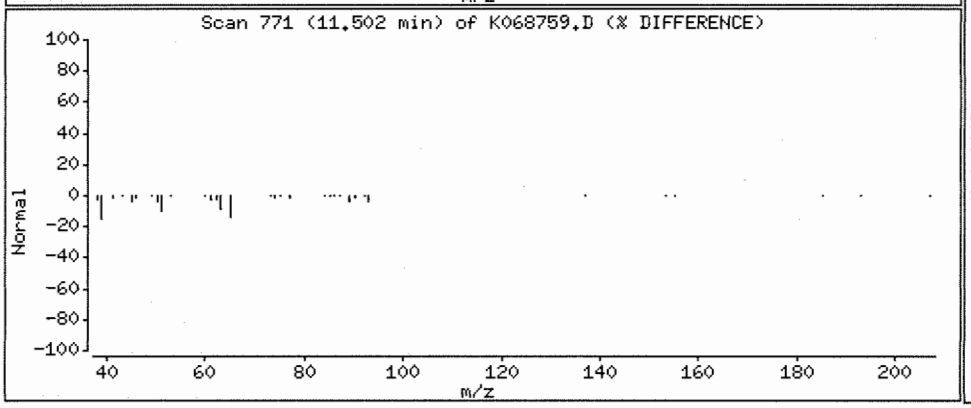
Column phase: DB-624 Column diameter: 0.32

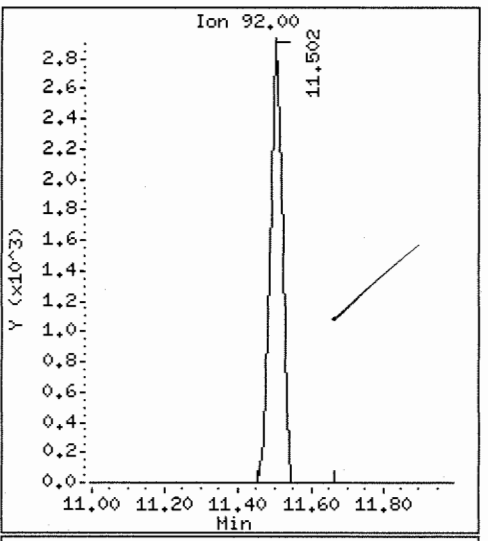
53 Toluene Concentration: 0.146 ug/L

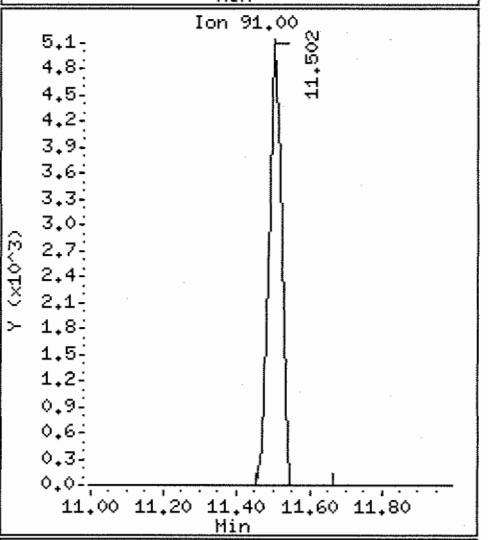


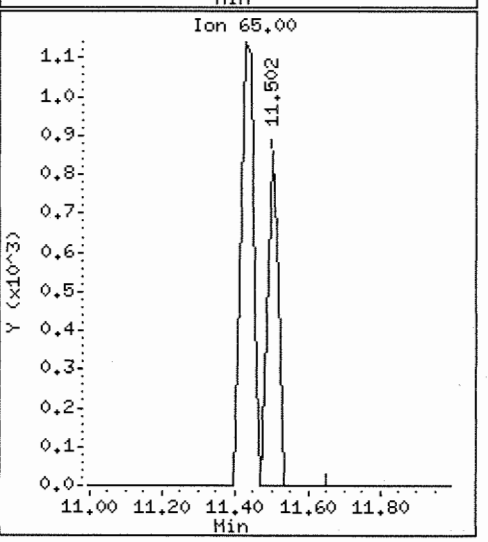












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

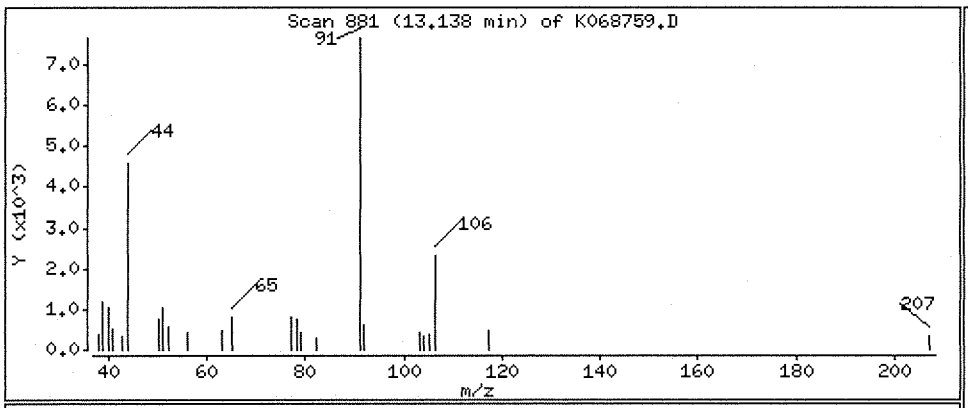
Client ID: T-54-GW-11 Instrument: MSK.i

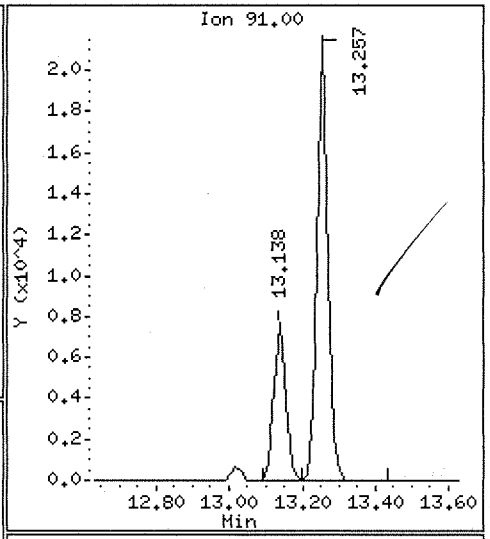
Sample Info: D0602139-002

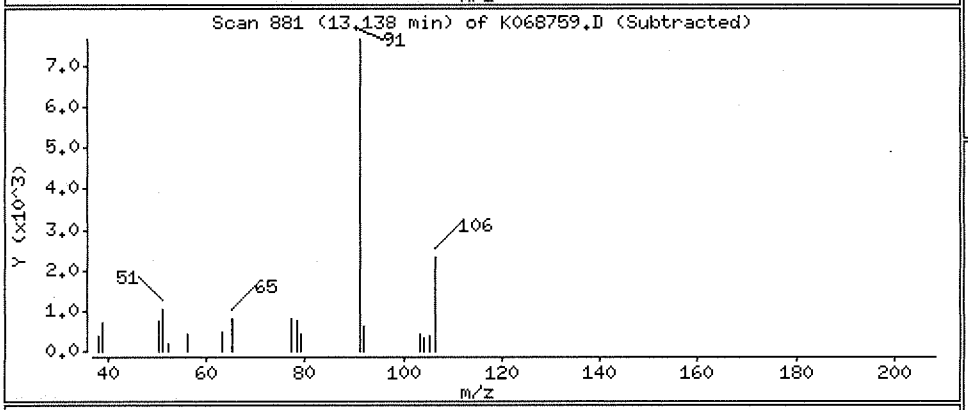
Purge Volume: 10.0 Operator: X

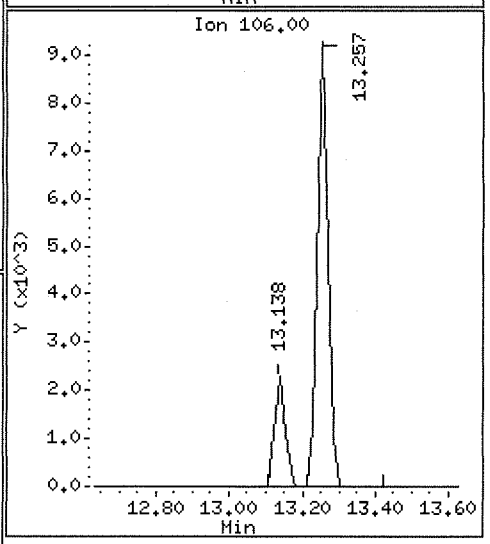
Column phase: DB-624 Column diameter: 0.32

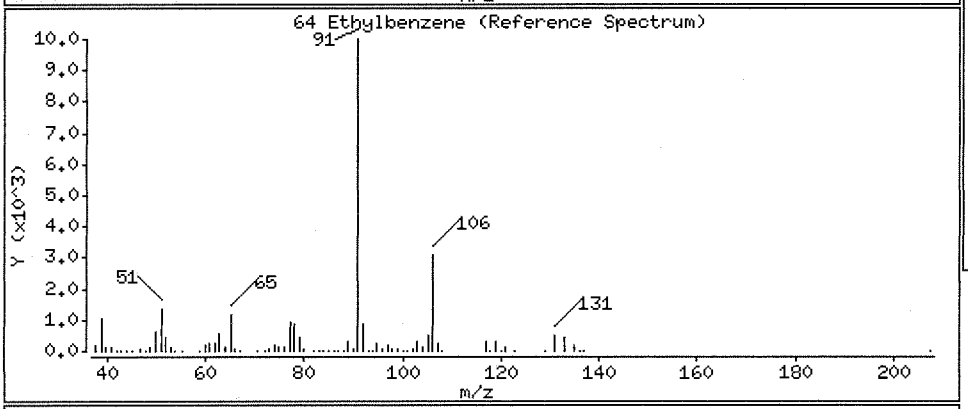
64 Ethylbenzene Concentration: 0.188 ug/L

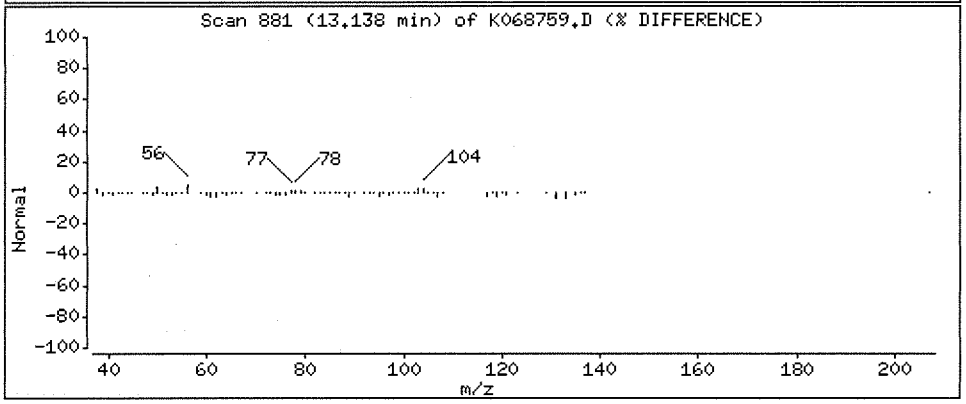












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

Client ID: T-54-GW-11

Instrument: MSK.i

Sample Info: D0602139-002

Purge Volume: 10.0

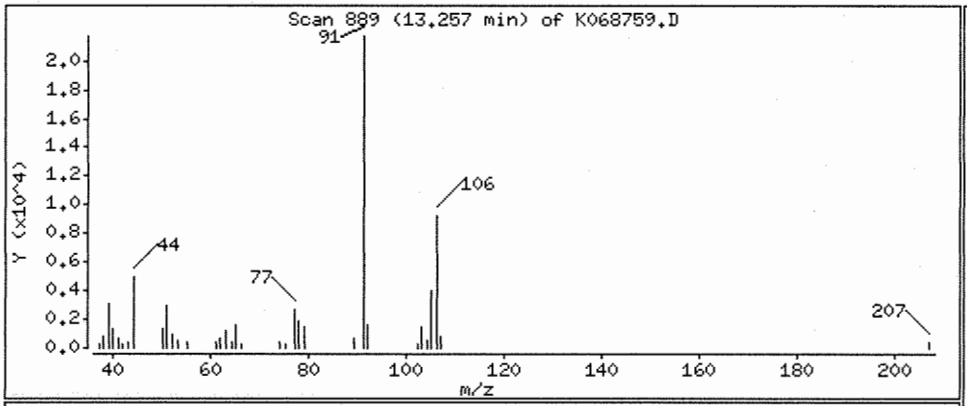
Operator: X

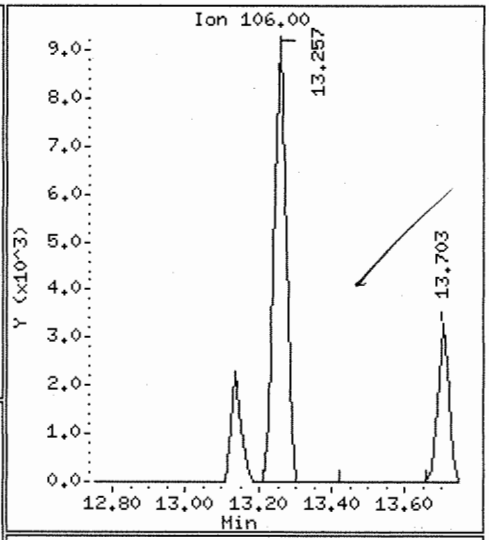
Column phase: DB-624

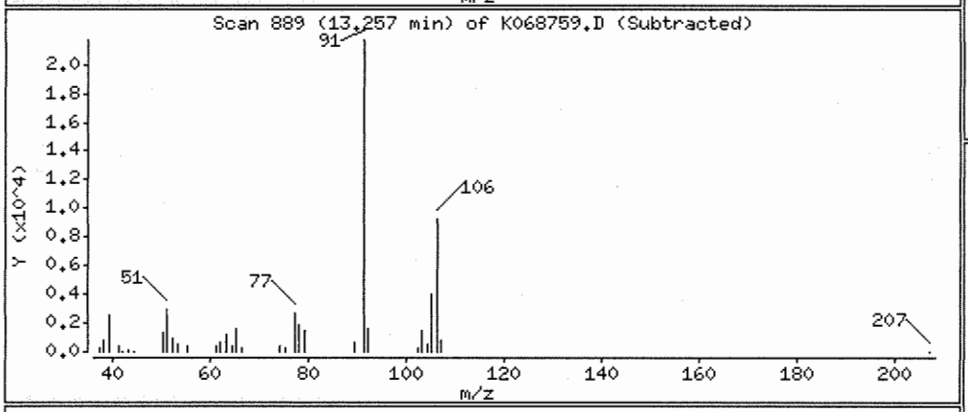
Column diameter: 0.32

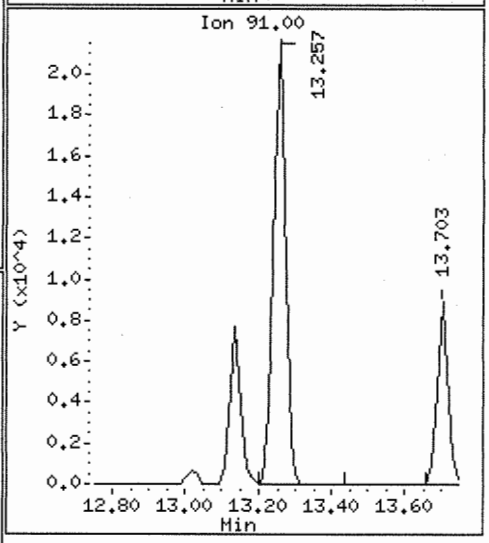
65 m-,p-Xylene

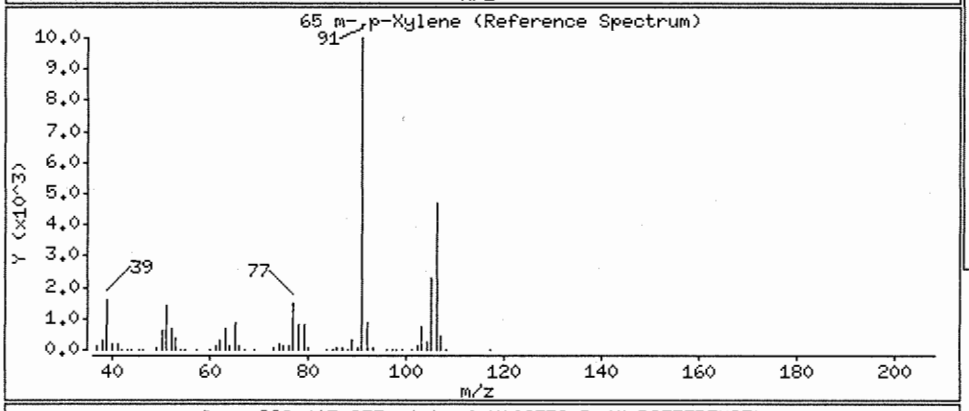
Concentration: 0.706 ug/L

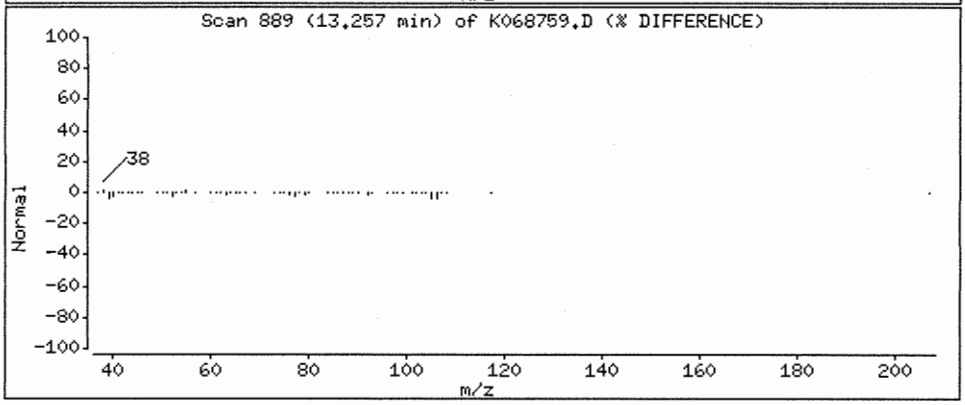












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

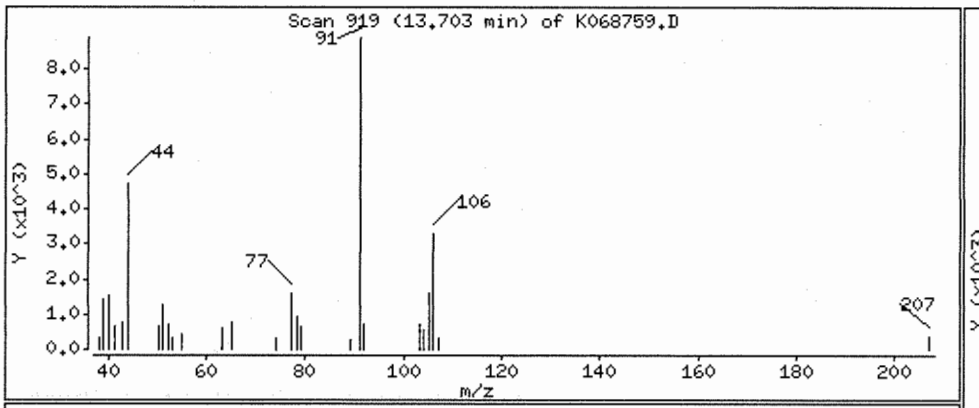
Client ID: T-54-GW-11 Instrument: MSK.i

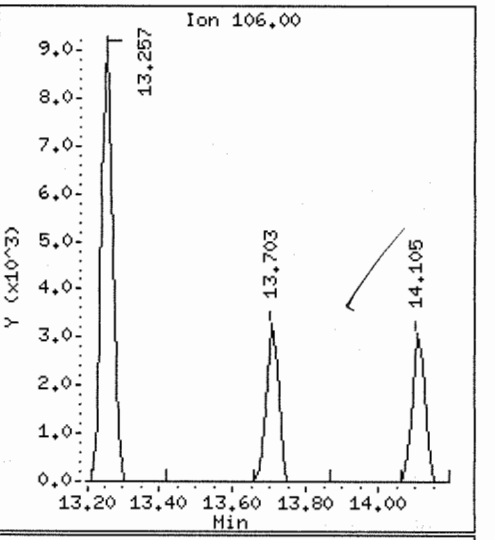
Sample Info: D0602139-002

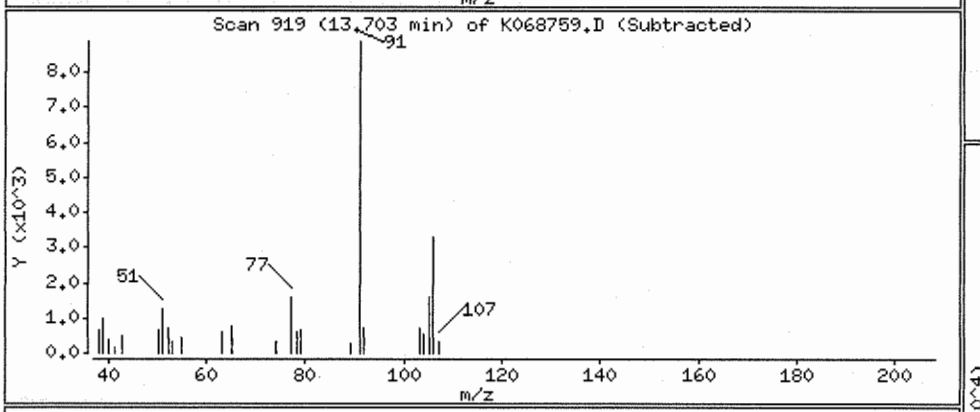
Purge Volume: 10.0 Operator: X

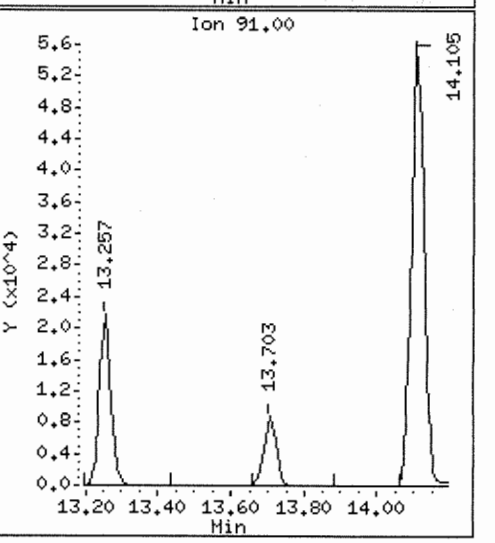
Column phase: DB-624 Column diameter: 0.32

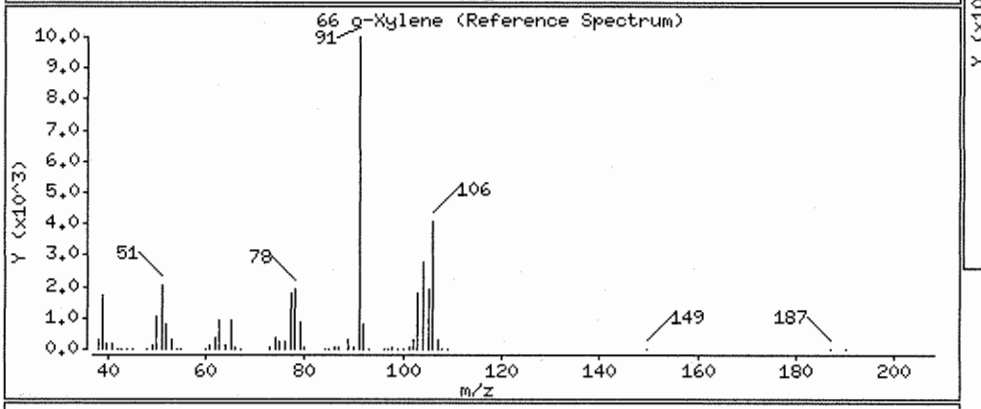
66 o-Xylene Concentration: 0.262 ug/L

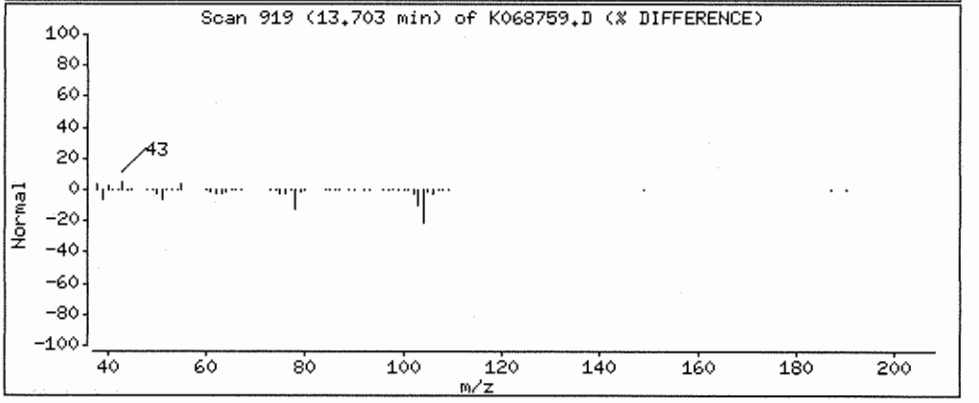












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

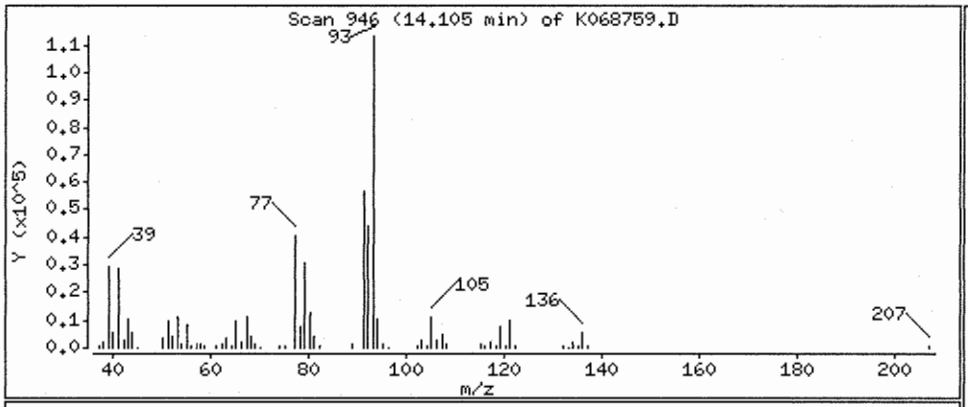
Client ID: T-54-GW-11 Instrument: MSK.i

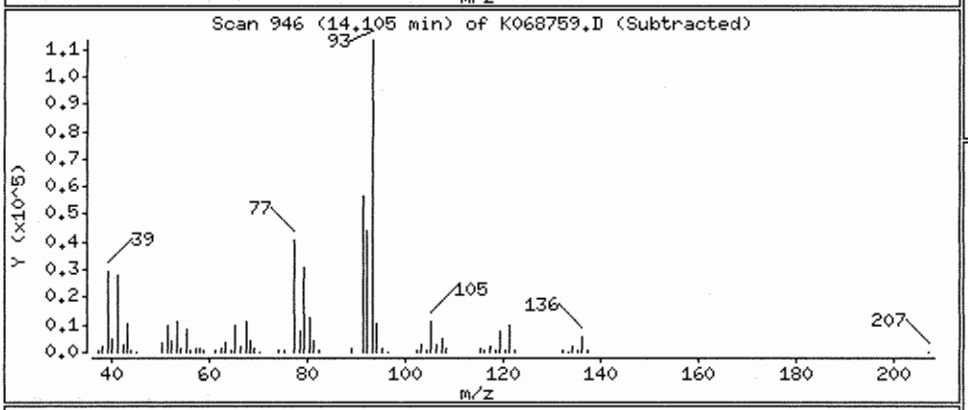
Sample Info: D0602139-002

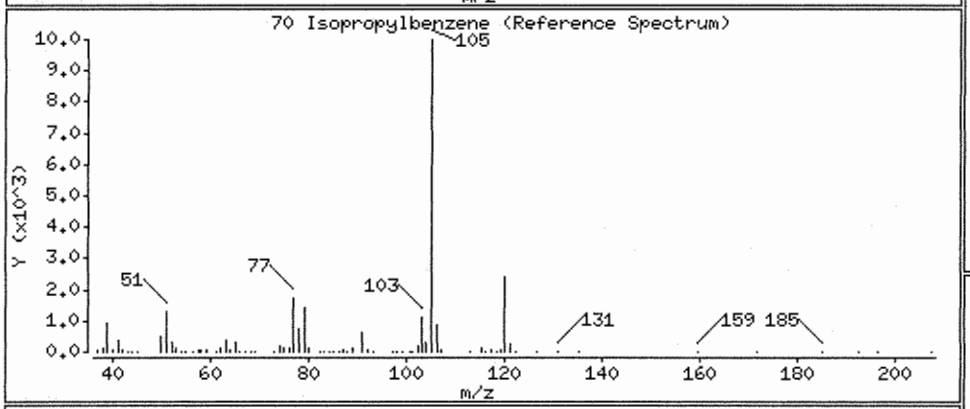
Purge Volume: 10.0 Operator: X

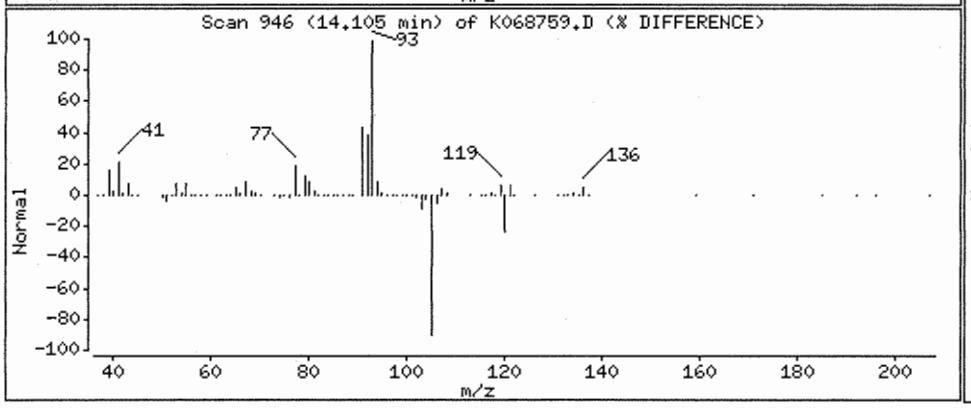
Column phase: DB-624 Column diameter: 0.32

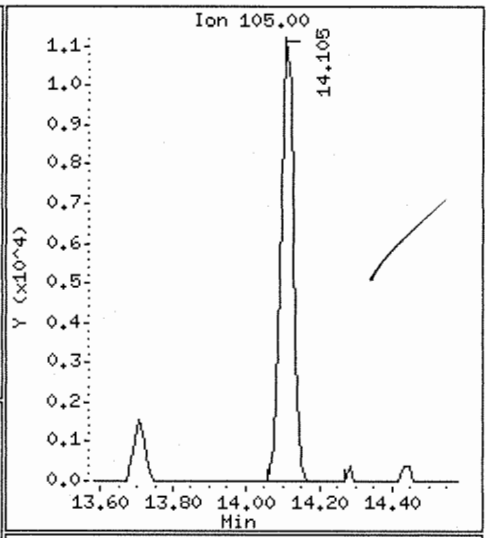
70 Isopropylbenzene Concentration: 0.375 ug/L

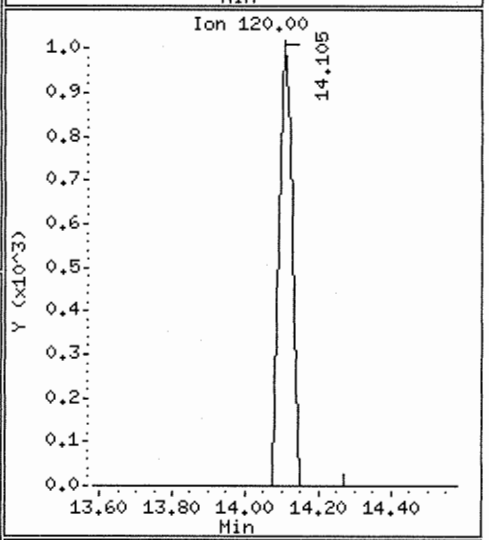


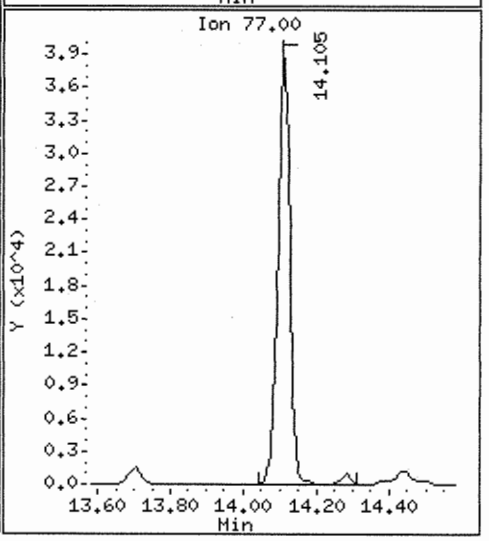












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

Client ID: T-54-GW-11

Instrument: MSK.i

Sample Info: D0602139-002

Purge Volume: 10.0

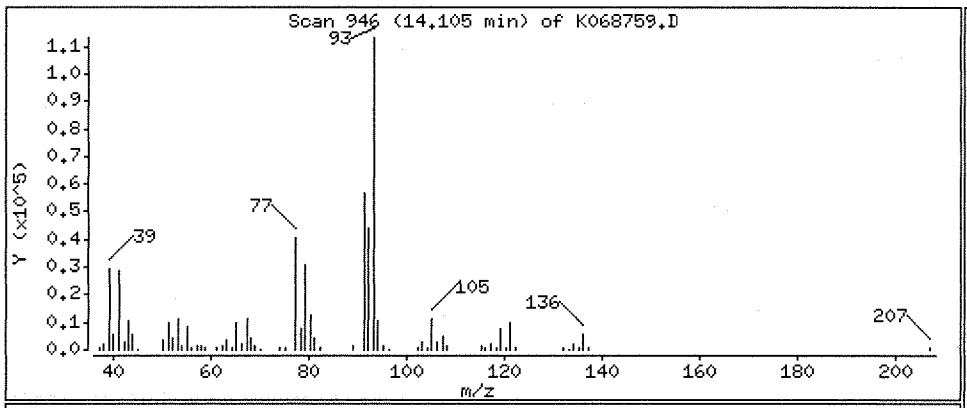
Operator: X

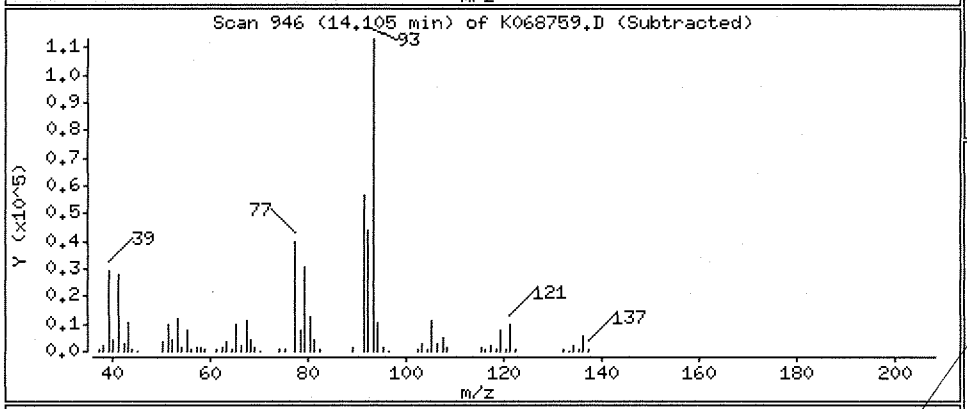
Column phase: DB-624

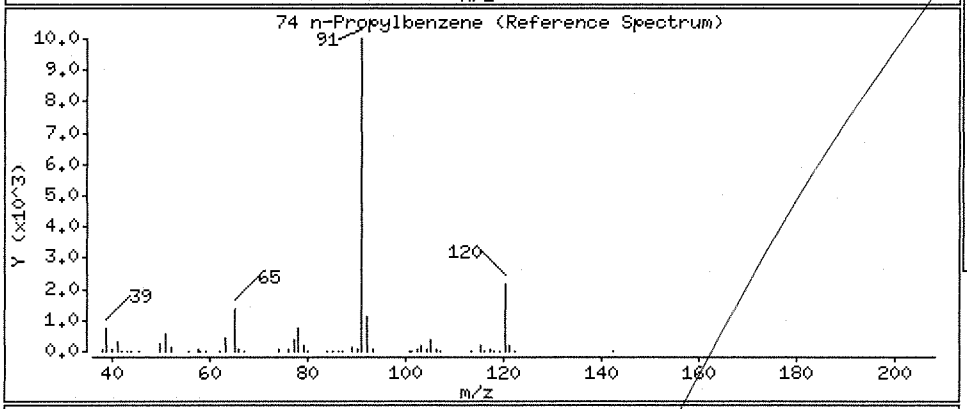
Column diameter: 0.32

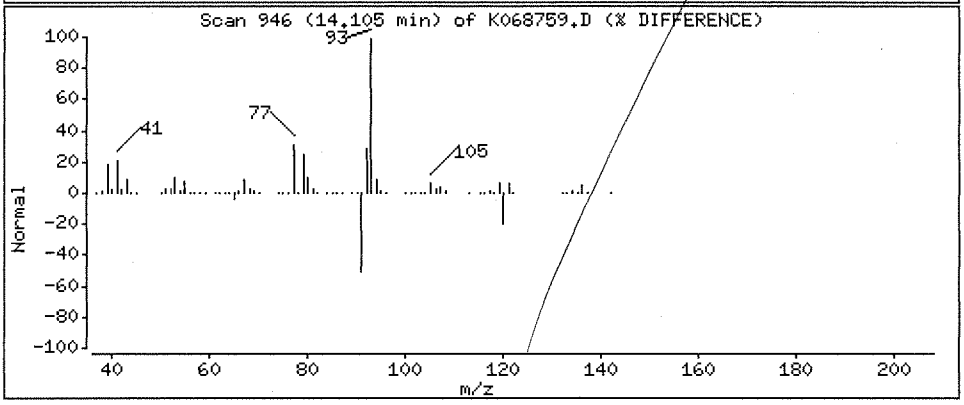
74 n-Propylbenzene

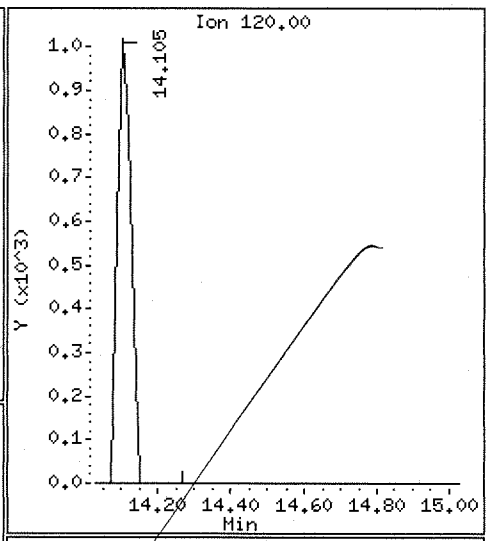
Concentration: 0.140 ug/L

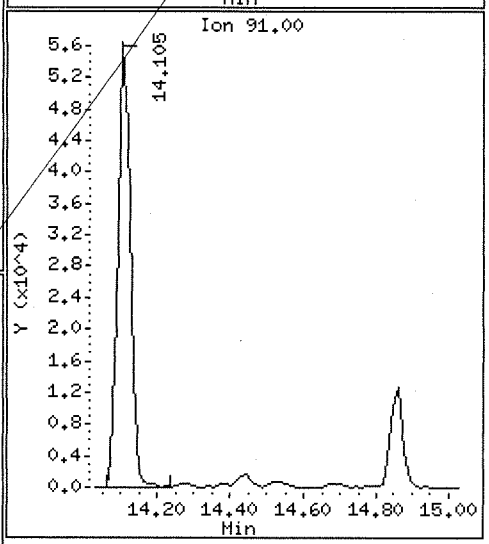












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

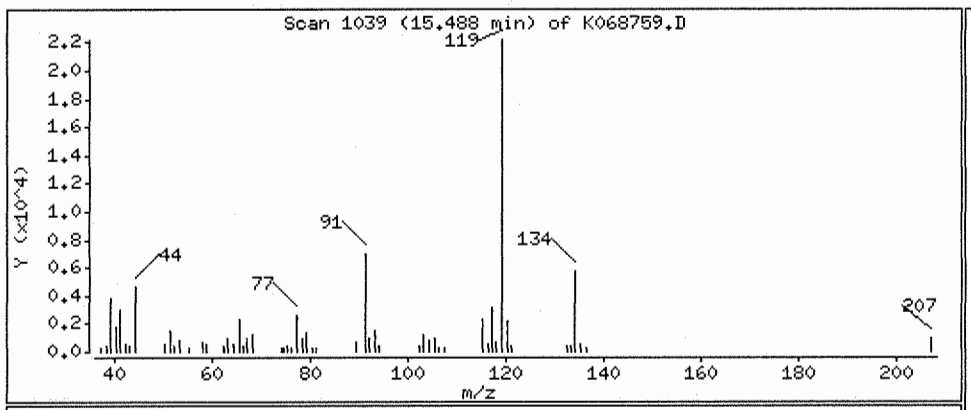
Client ID: T-54-GW-11 Instrument: MSK.i

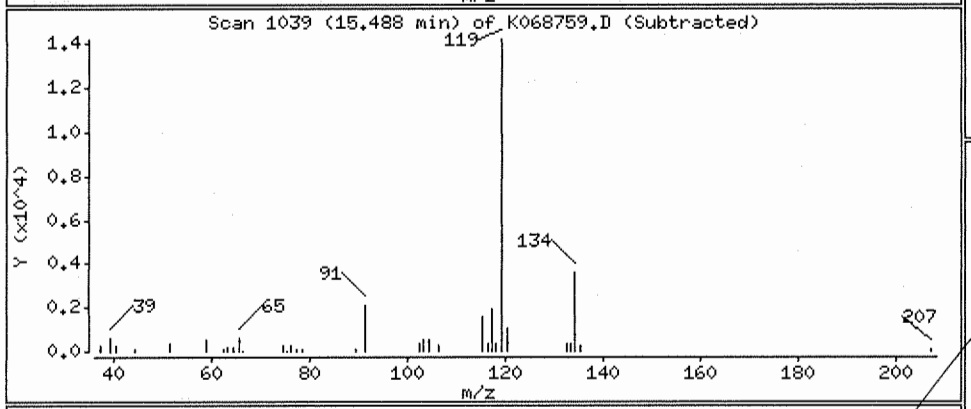
Sample Info: D0602139-002

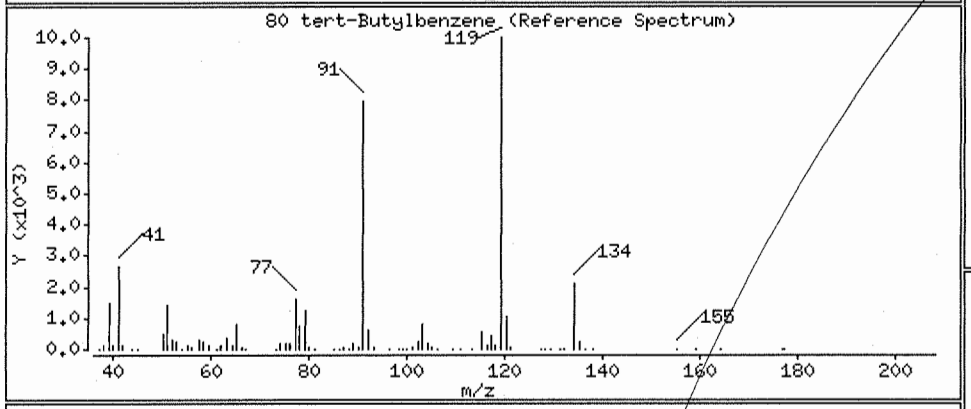
Purge Volume: 10.0 Operator: X

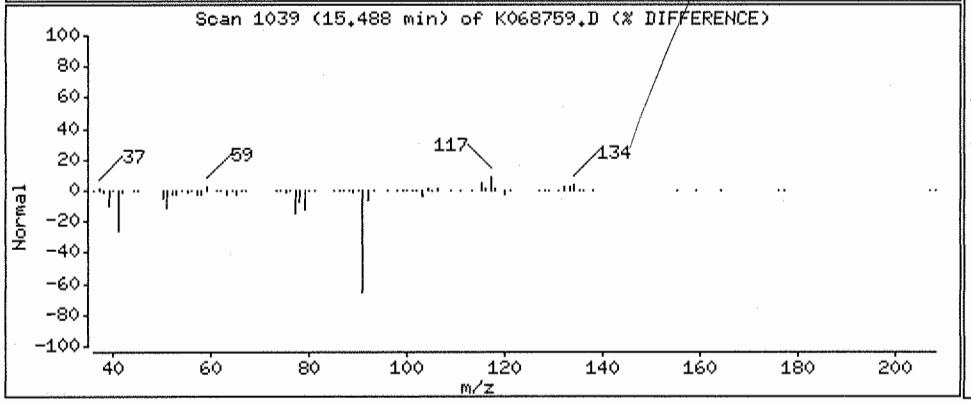
Column phase: DB-624 Column diameter: 0.32

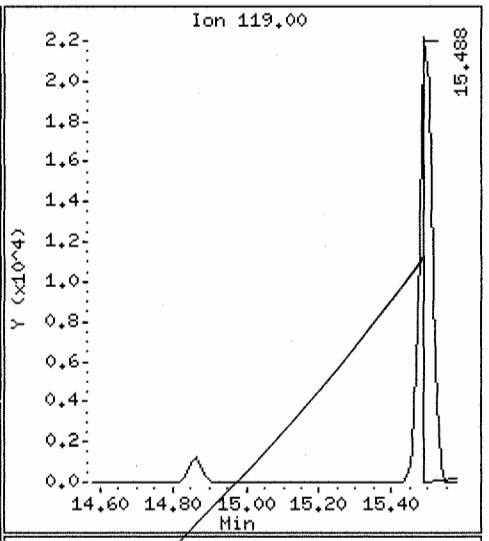
80 tert-Butylbenzene Concentration: 0.617 ug/L

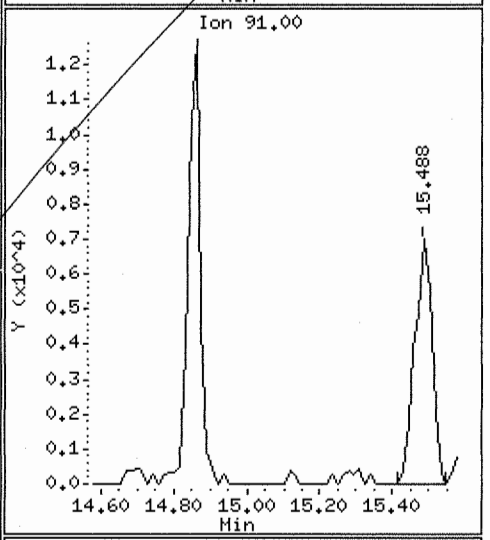


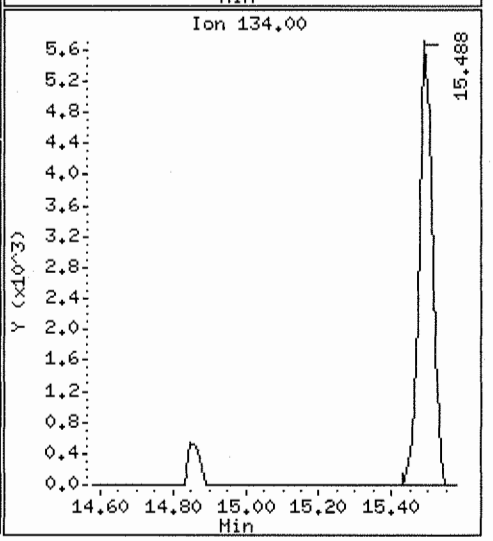












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068759.D

Date : 29-DEC-2006 19:53

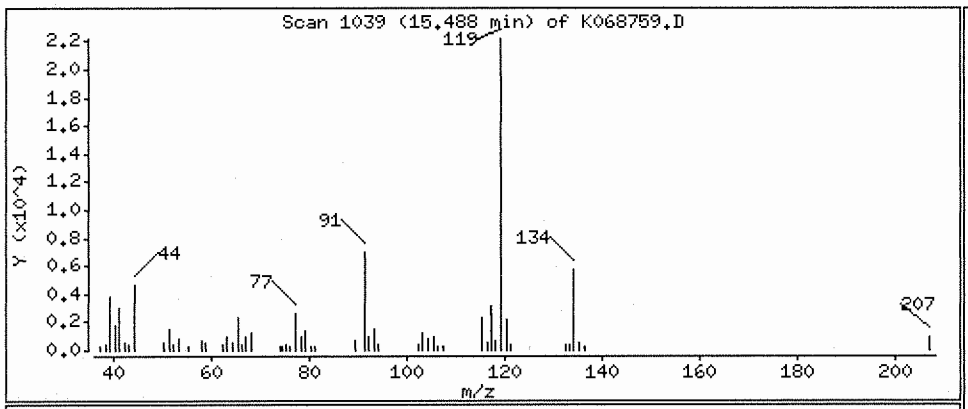
Client ID: T-54-GW-11 Instrument: MSK.i

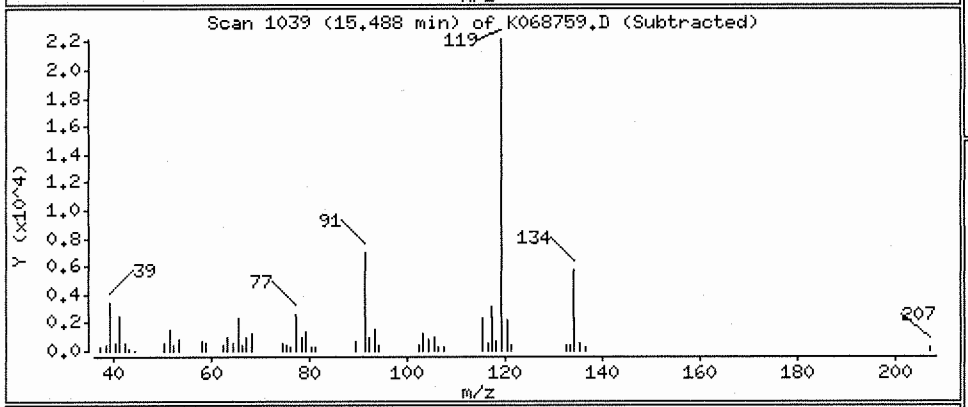
Sample Info: D0602139-002

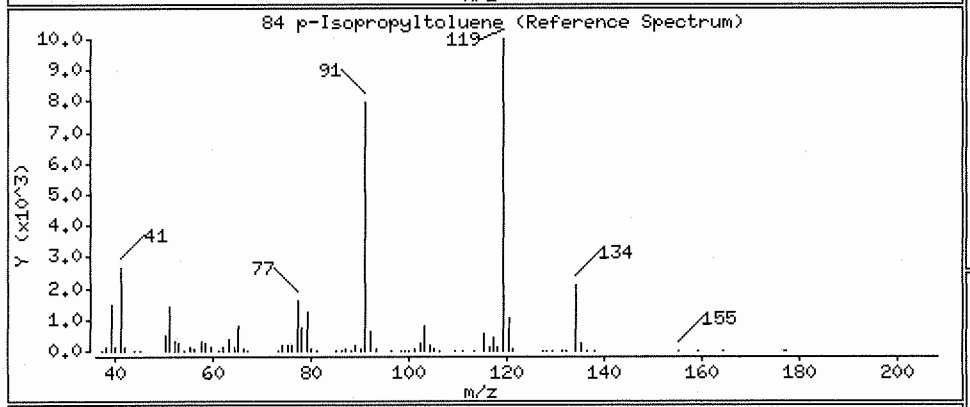
Purge Volume: 10.0 Operator: X

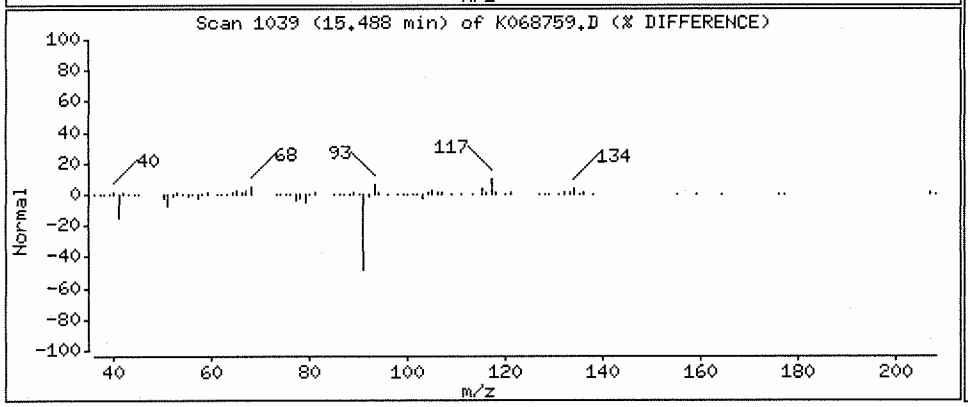
Column phase: DB-624 Column diameter: 0.32

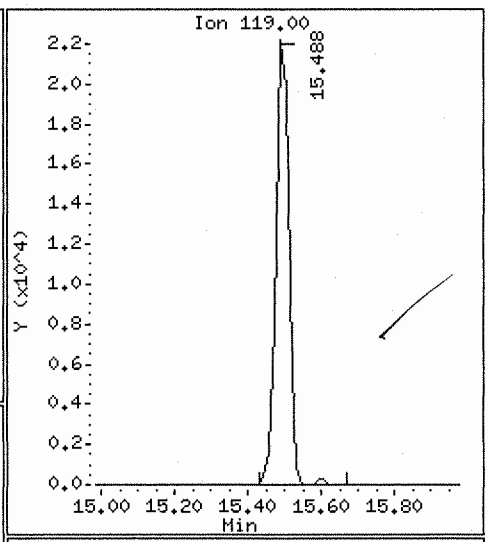
84 p-Isopropyltoluene Concentration: 0.893 ug/L

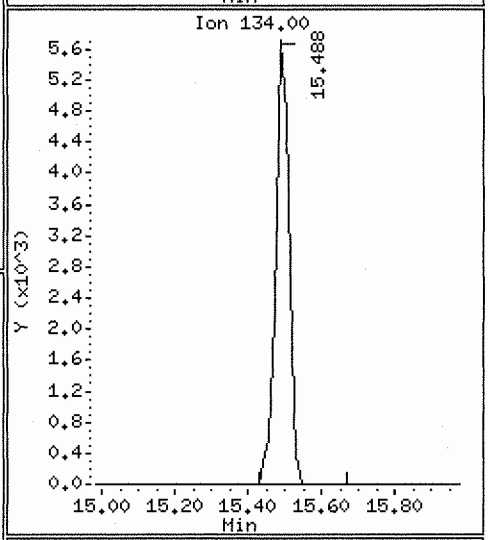


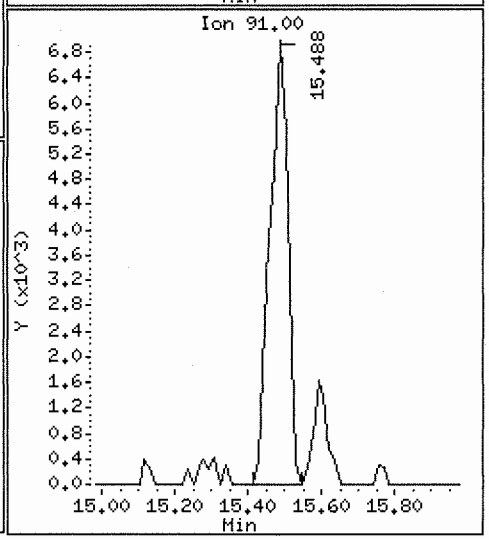












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-54-GW-40
Lab Code: D0602139-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	**0.36**	J	0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**20**		0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	**3.8**		0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**0.73**	J	0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	ND	U	0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**3.8**	J	0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	ND	U	0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	**15**		0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	**0.21**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	**1.4**	J	0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	ND	U	0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-54-GW-40
Lab Code: D0602139-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	ND	U	0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	ND	U	0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	ND	U	0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	**0.14**	J	0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	124	79-135	12/29/2006	
4-Bromofluorobenzene - SS	98	82-124	12/29/2006	
Dibromofluoromethane - SS	115	84-127	12/29/2006	
Toluene-d8 - SS	101	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D
Lab Smp Id: D0602139-003 Client Smp ID: T-54-GW-40
Inj Date : 29-DEC-2006 14:33
Operator : X Inst ID: MSK.i
Smp Info : D0602139-003
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 13:33 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

01/02/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	9.680	9.670	(1.000)	717983	10.0000	
*	2 Chlorobenzene-d5	117	13.027	13.016	(1.000)	521563	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.615	15.604	(1.000)	265985	10.0000	
$	4 Dibromofluoromethane	113	8.877	8.866	(0.917)	259330	11.4916	11.5
$	5 1,2-Dichloroethane-d4	65	9.293	9.283	(0.960)	295512	12.4148	12.4
$	6 Toluene-d8	98	11.435	11.425	(0.878)	670924	10.0700	10.1
$	7 Bromofluorobenzene	174	14.291	14.280	(0.915)	225870	9.80462	9.80
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	3.835	3.824	(0.396)	6438	0.35950	0.360(a)
	11 Vinyl chloride	62	Compound Not Detected.					
	12 Bromomethane	94	Compound Not Detected.					
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	17 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	6.066	6.070	(0.627)	89333	20.1324	20.1
	21 Carbon disulfide	76	6.438	6.427	(0.665)	264721	3.78167	3.78
	22 Methylene chloride	84	6.705	6.695	(0.693)	16469	0.73134	0.731(a)
	26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	27 tert-Butylmethylether	73	6.839	7.067	(0.707)	5450	0.12610	~~0.126(aQ)~~
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 Vinyl acetate	43	Compound Not Detected.					

01/02/07

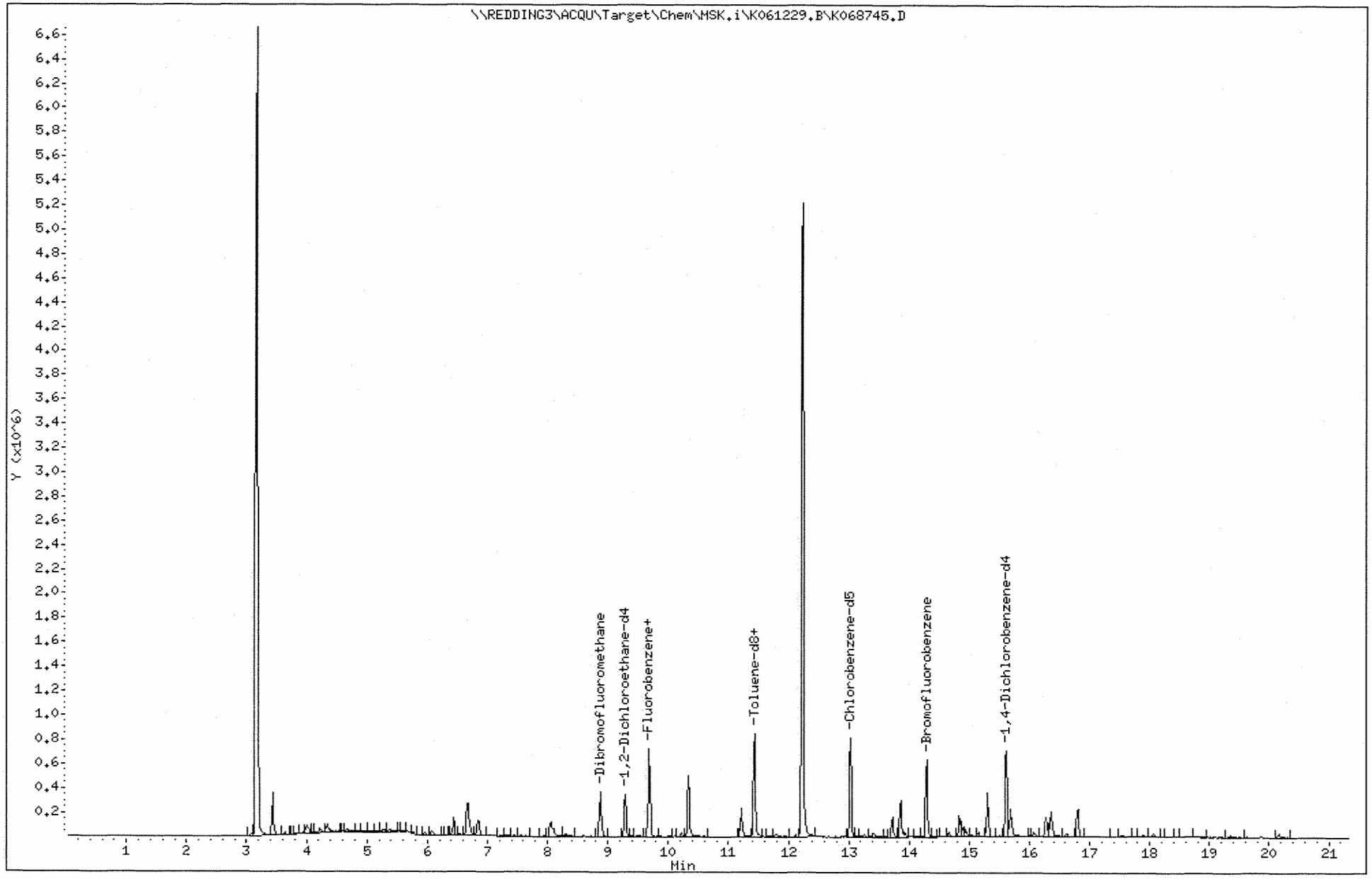
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	8.044	8.346	(0.831)	8668	0.28558	0.286(a)
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.312	8.286	(0.859)	23820	3.76819	3.77(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	9.397	9.387	(0.971)	9749	0.13165	0.132(a)
44	1,2-Dichloroethane	62	9.680	9.372	(1.000)	10869	0.39500	~~0.395(a)~~
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	11.212	11.202	(1.158)	221770	14.7135	14.7
53	Toluene	92	11.510	11.499	(0.884)	9994	0.20986	0.210(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.238	11.886	(0.939)	29593	2.07865	~~2.08(Q)~~
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	12.119	12.094	(0.930)	14678	1.41759	1.42(a)
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	13.250	13.700	(1.017)	3587	0.11886	~~0.119(a)~~
M 67	Xylene (total)	106				3587	0.11886	~~0.119(a)~~
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	15.496	15.084	(0.992)	8551	0.15239	~~0.152(aQ)~~
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	15.496	15.485	(0.992)	8551	0.13849	0.138(a)
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D
Date : 29-DEC-2006 14:33
Client ID: T-54-GW-40
Sample Info: D0602139-003
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

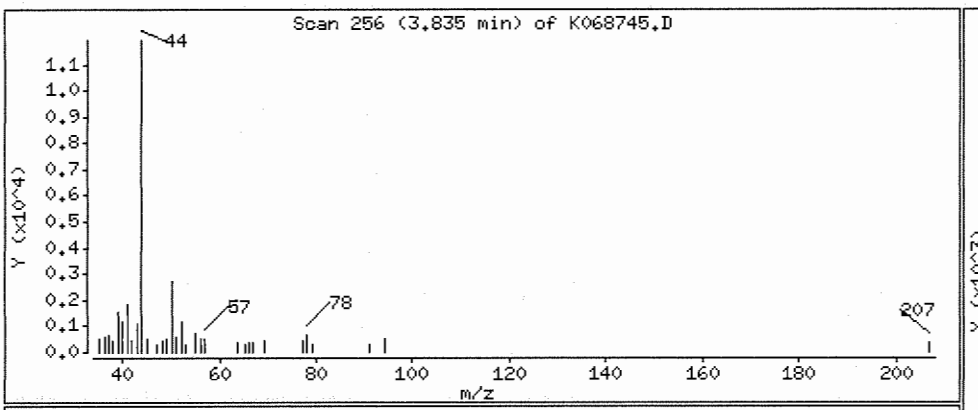
Client ID: T-54-GW-40 Instrument: MSK.i

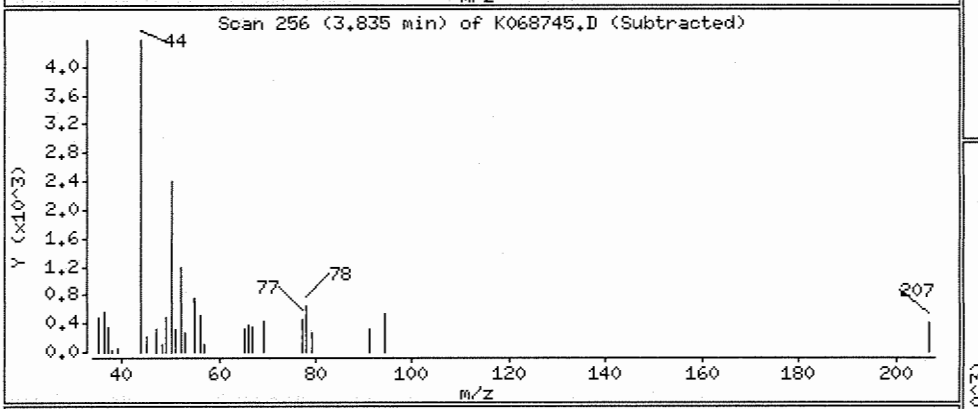
Sample Info: D0602139-003

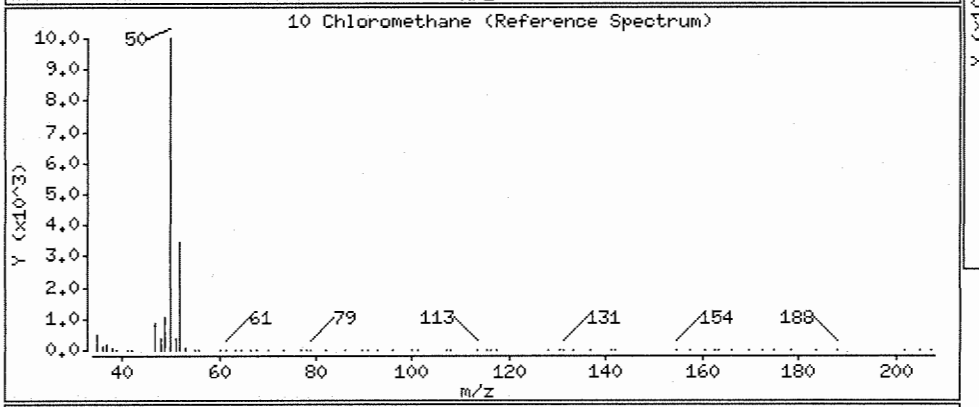
Purge Volume: 10.0 Operator: X

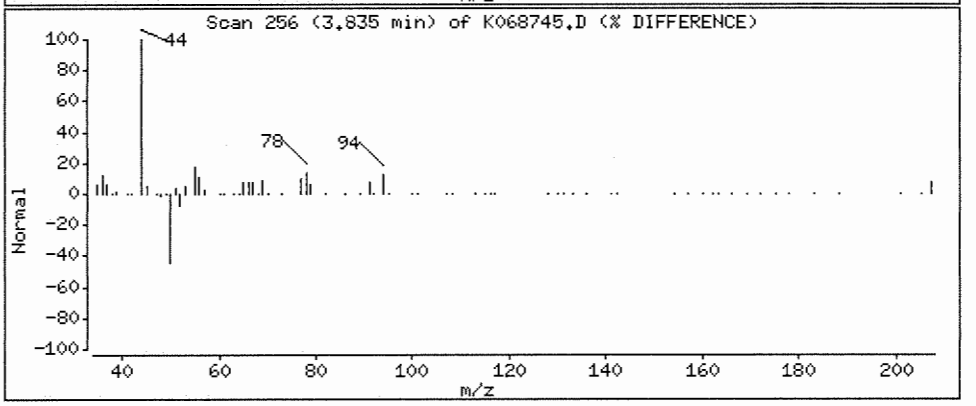
Column phase: DB-624 Column diameter: 0.32

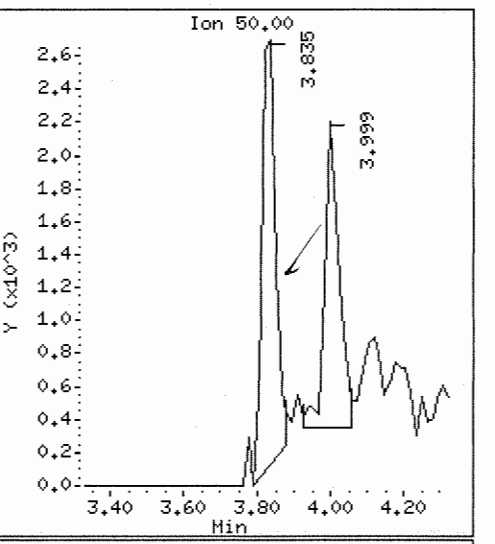
10 Chloromethane Concentration: 0.360 ug/L

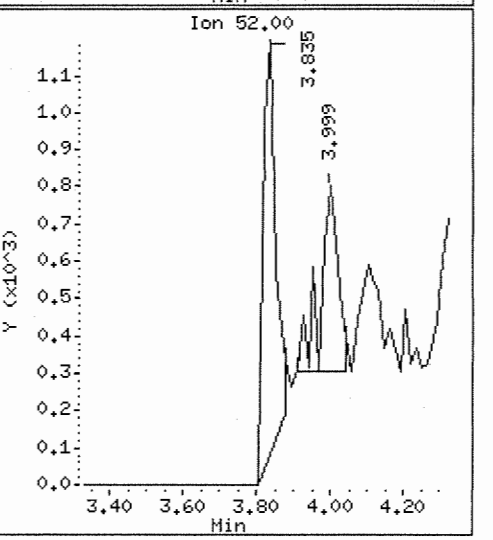












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Date : 29-DEC-2006 14:33

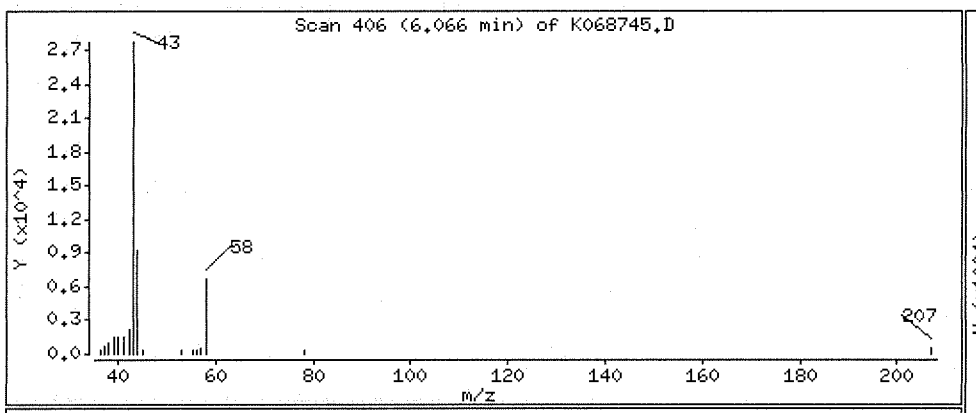
Client ID: T-54-GW-40 Instrument: MSK.i

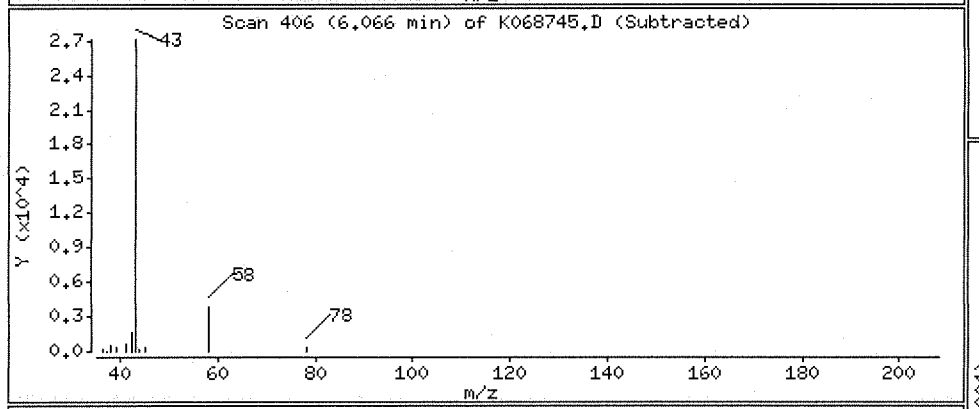
Sample Info: D0602139-003

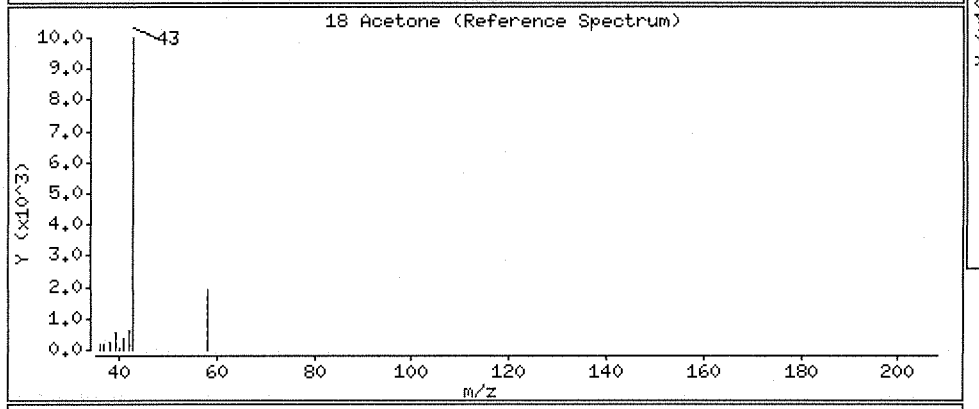
Purge Volume: 10.0 Operator: X

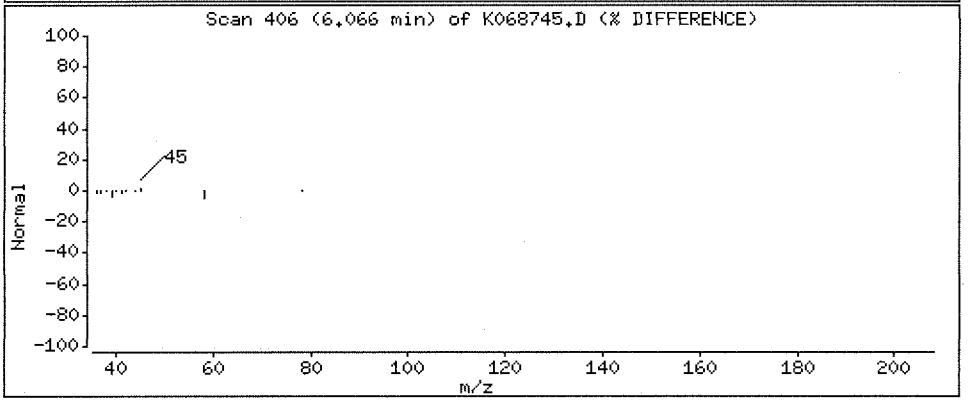
Column phase: DB-624 Column diameter: 0.32

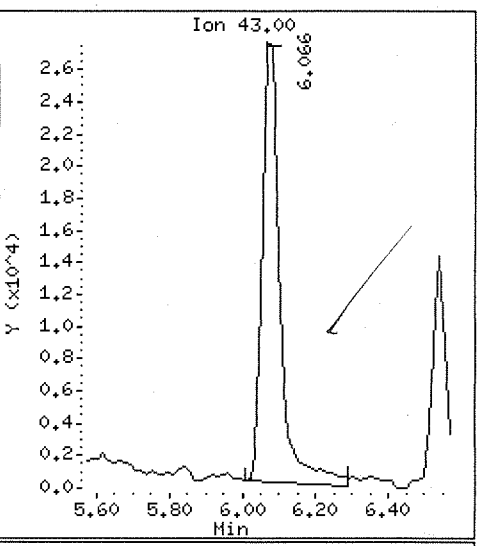
18 Acetone Concentration: 20.1 ug/L

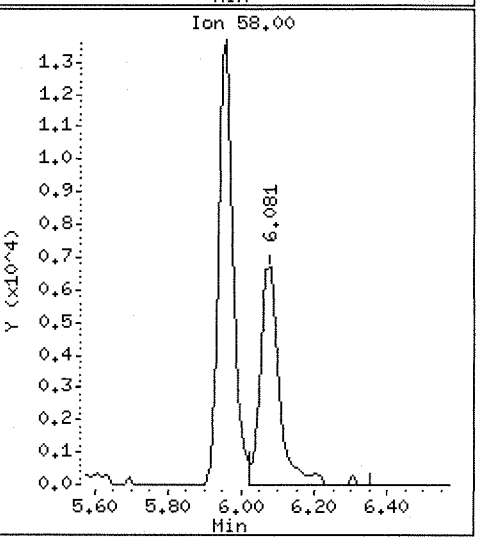












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Date : 29-DEC-2006 14:33

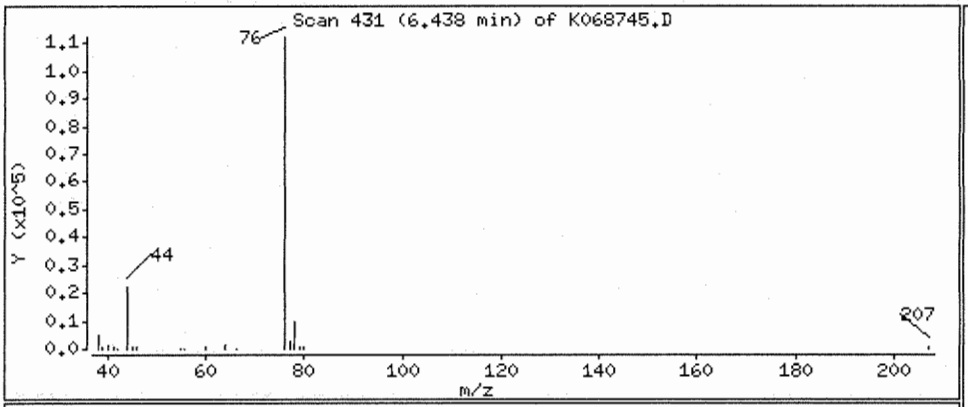
Client ID: T-54-GW-40 Instrument: MSK.i

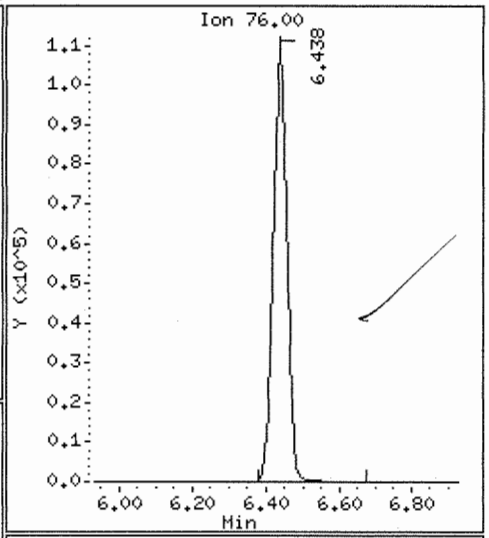
Sample Info: D0602139-003

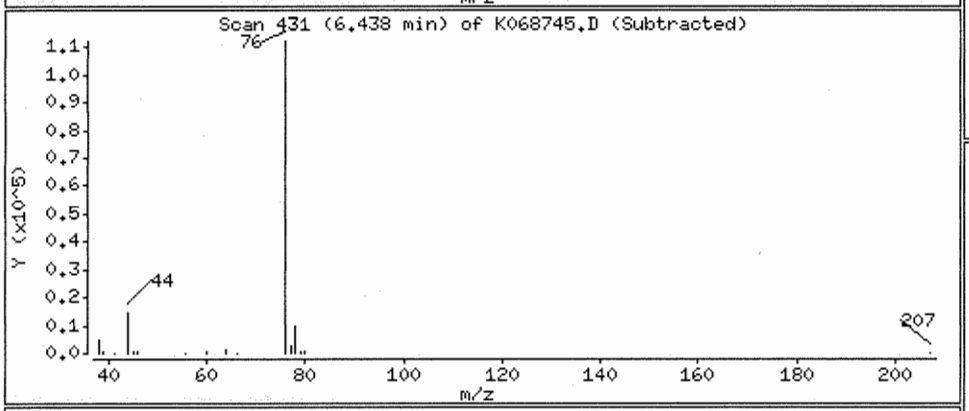
Purge Volume: 10.0 Operator: X

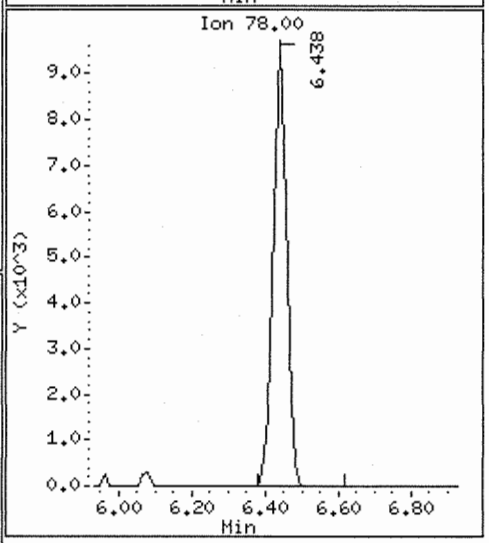
Column phase: DB-624 Column diameter: 0.32

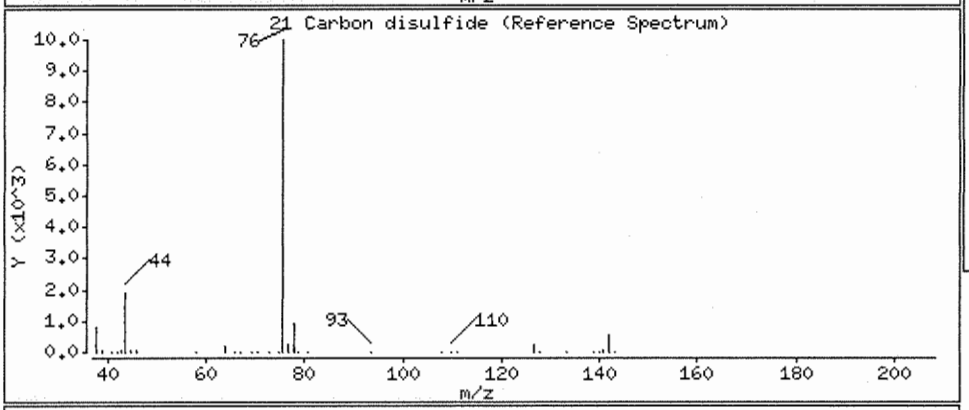
21 Carbon disulfide Concentration: 3.78 ug/L

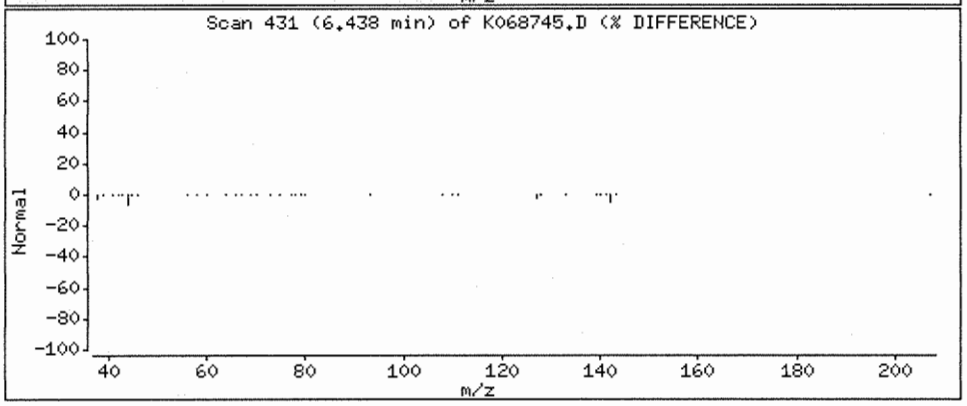












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

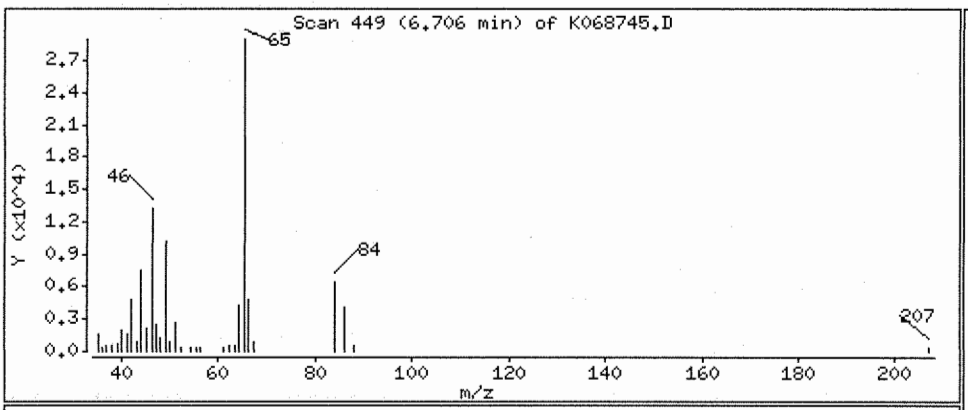
Client ID: T-54-GW-40 Instrument: MSK.i

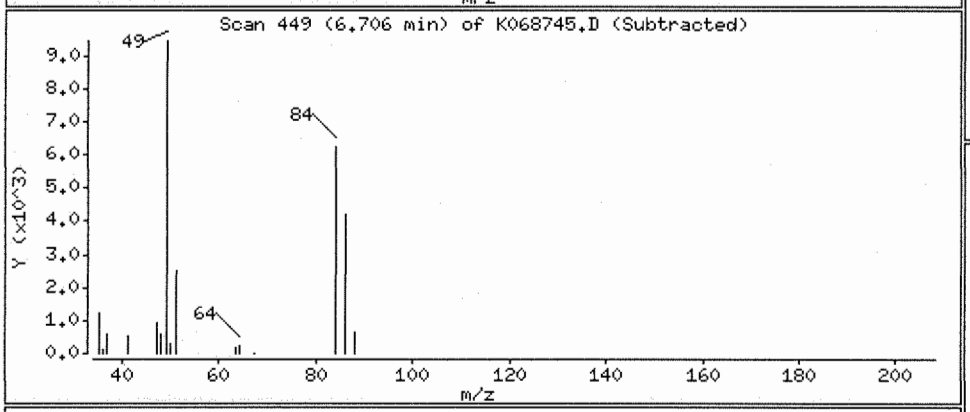
Sample Info: D0602139-003

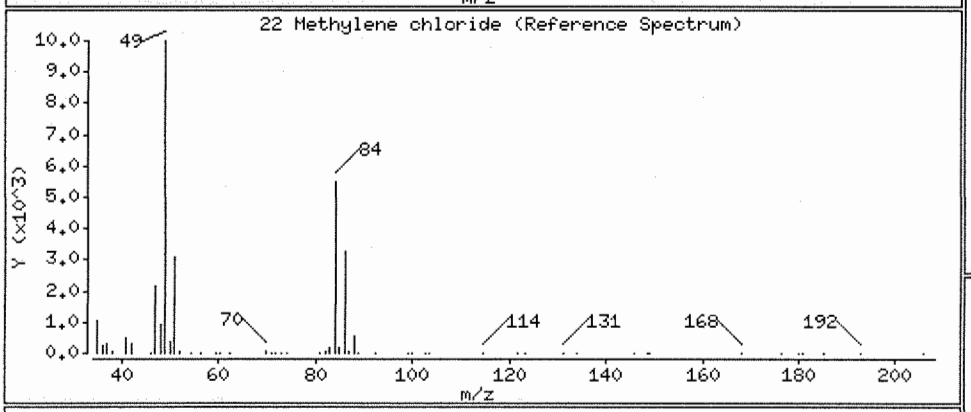
Purge Volume: 10.0 Operator: X

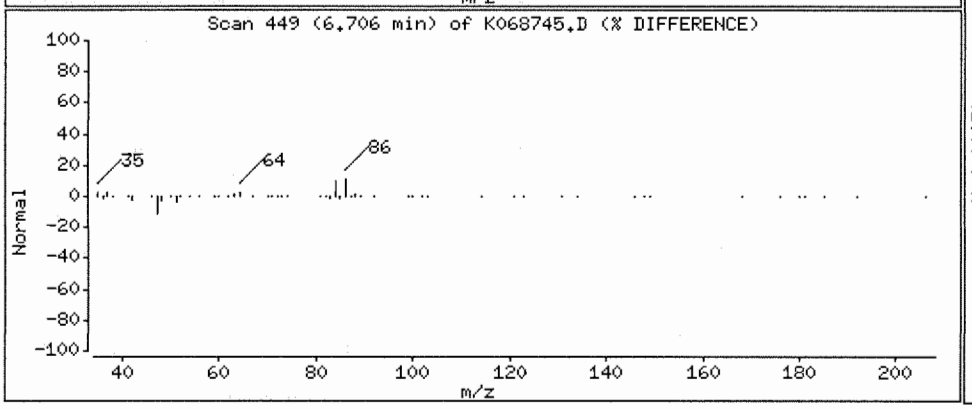
Column phase: DB-624 Column diameter: 0.32

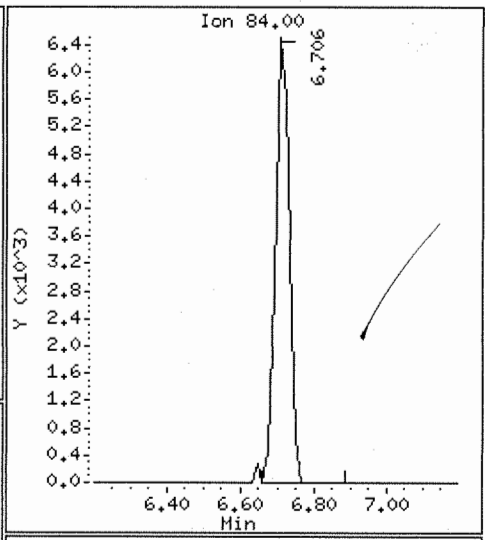
22 Methylene chloride Concentration: 0.731 ug/L

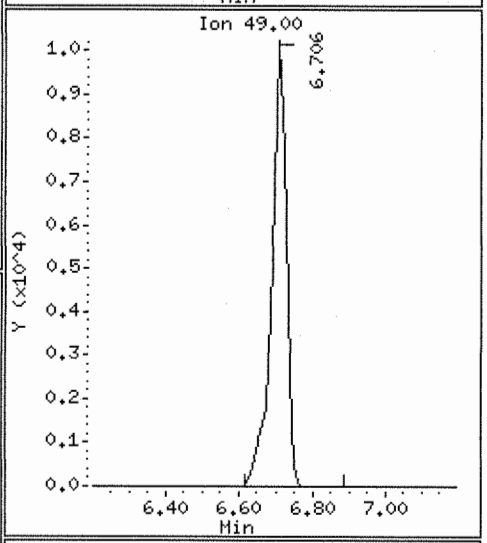


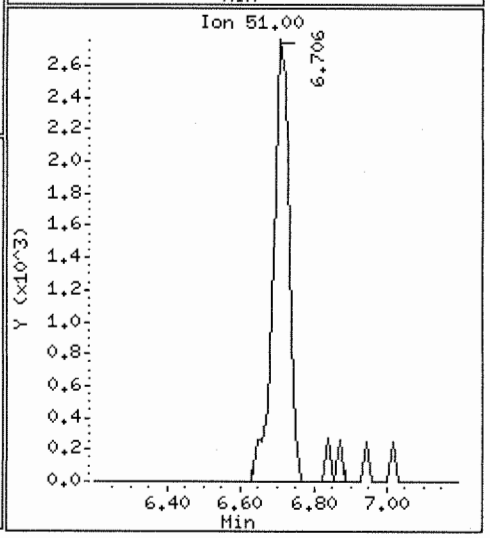












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

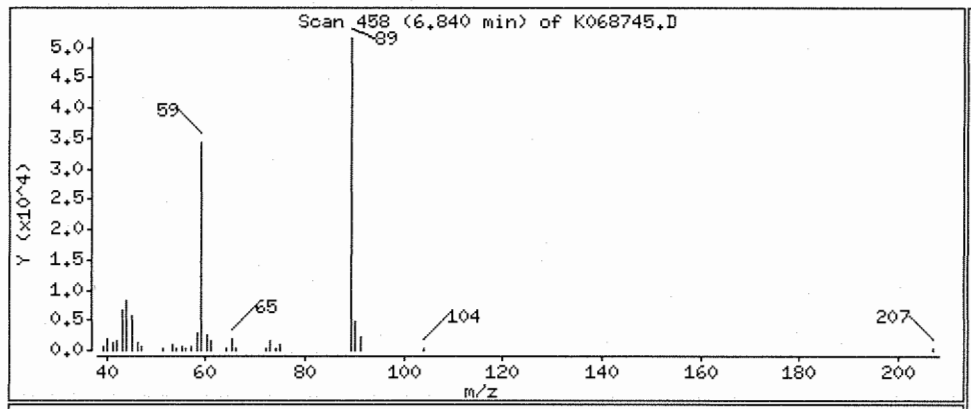
Client ID: T-54-GW-40 Instrument: MSK.i

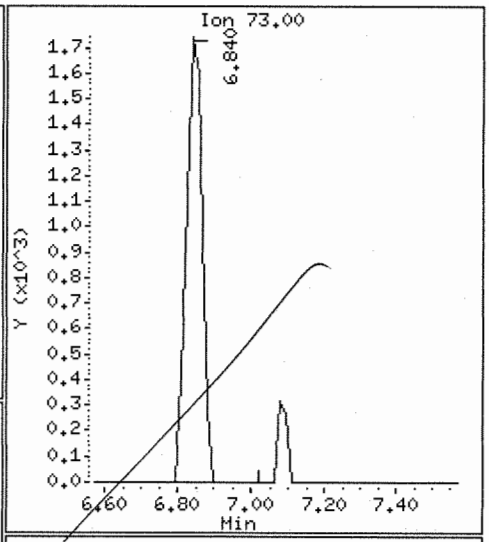
Sample Info: D0602139-003

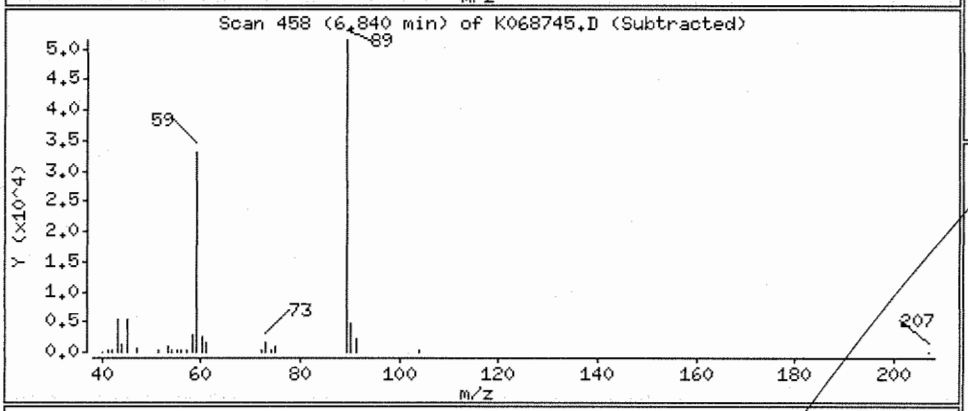
Purge Volume: 10.0 Operator: X

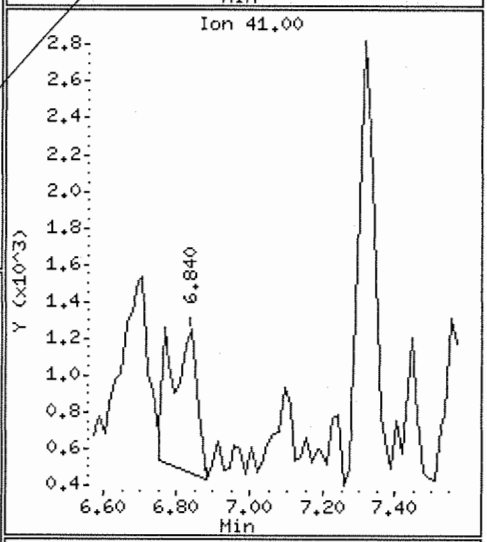
Column phase: DB-624 Column diameter: 0.32

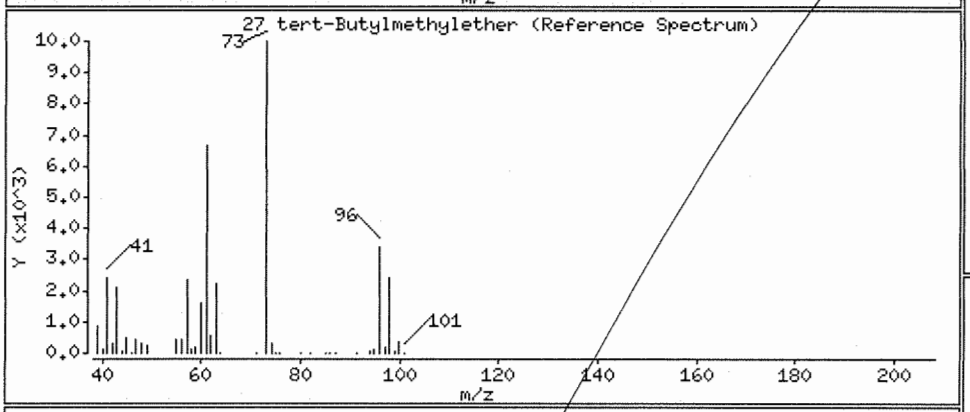
27 tert-Butylmethylether Concentration: 0.126 ug/L

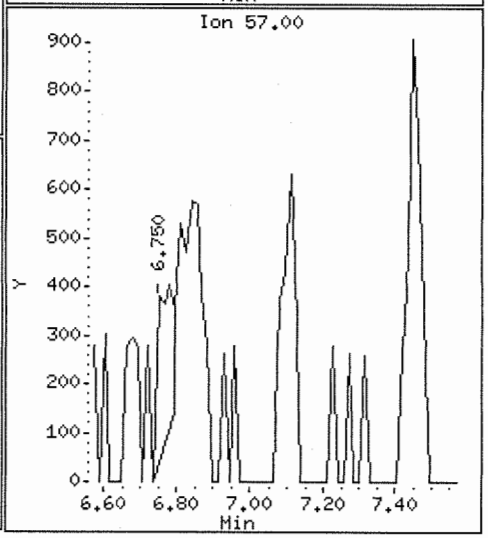


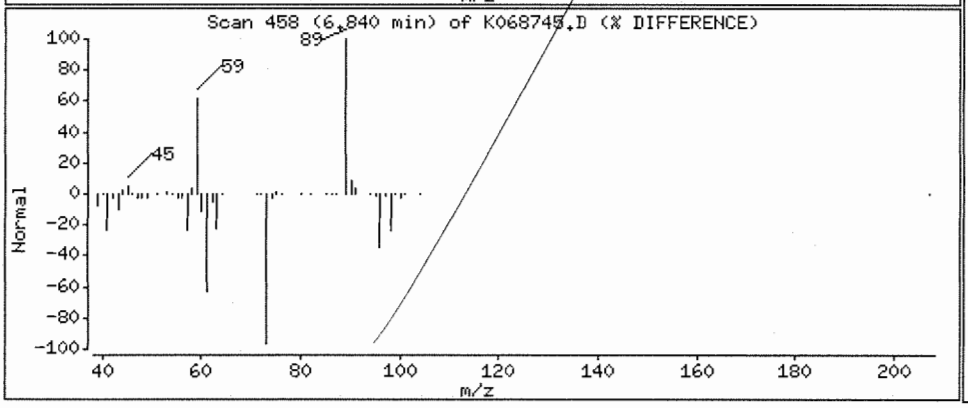












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

Client ID: T-54-GW-40

Instrument: MSK.i

Sample Info: D0602139-003

Purge Volume: 10.0

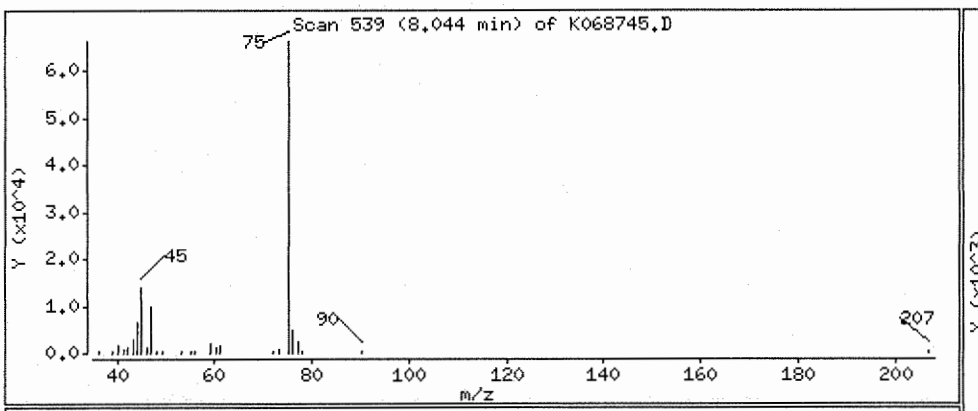
Operator: X

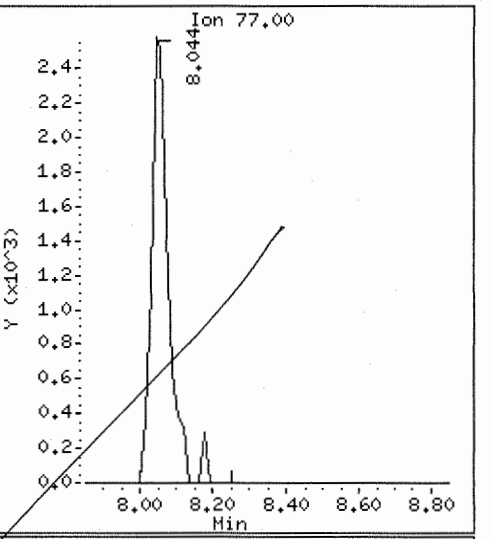
Column phase: DB-624

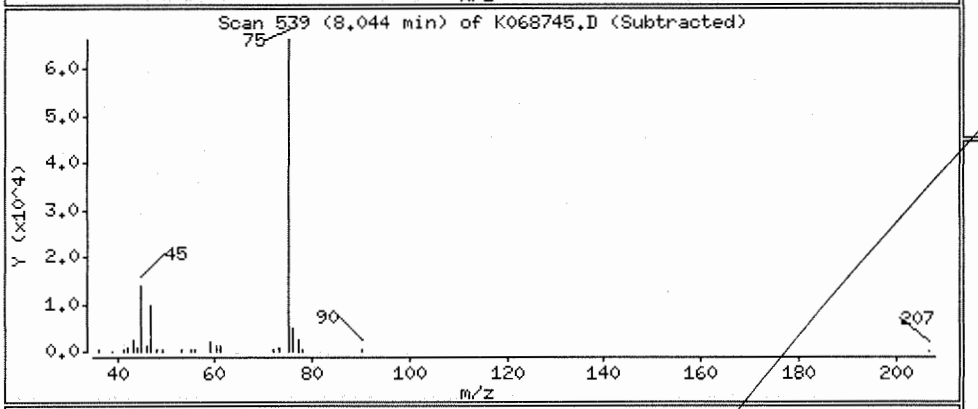
Column diameter: 0.32

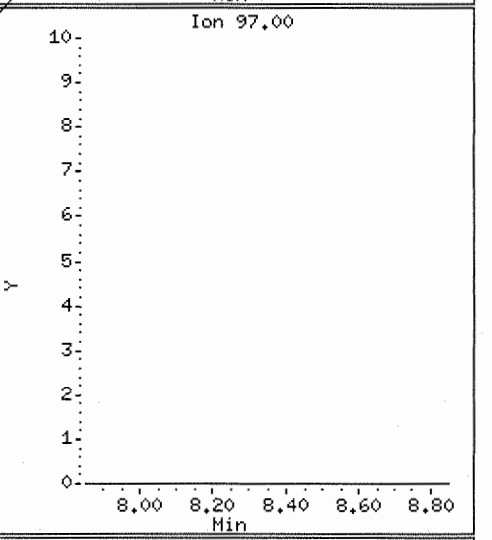
32 2,2-Dichloropropane

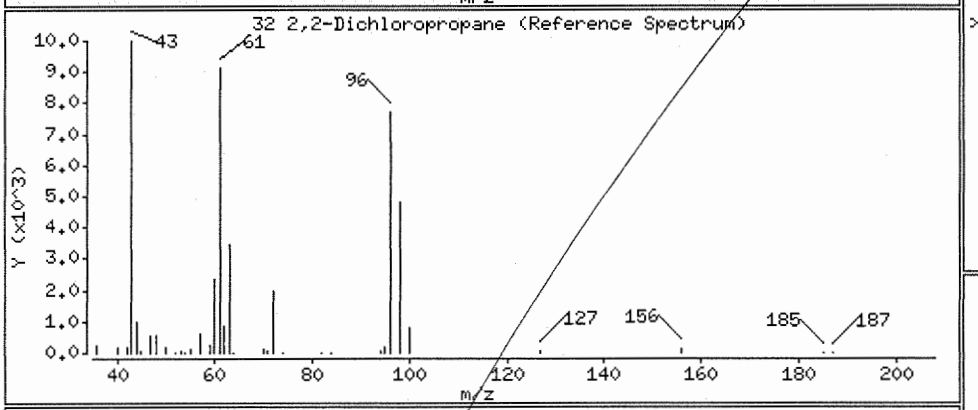
Concentration: 0.286 ug/L

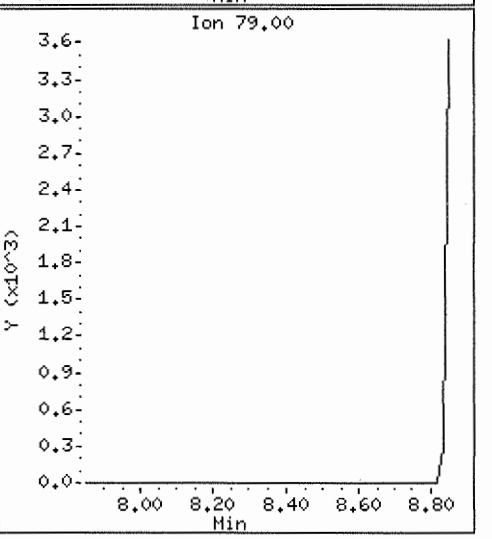


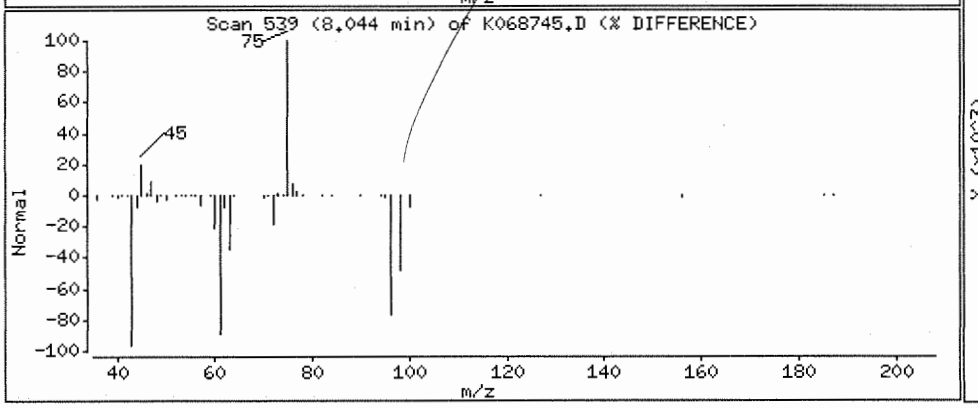












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

Client ID: T-54-GW-40

Instrument: MSK.i

Sample Info: D0602139-003

Purge Volume: 10.0

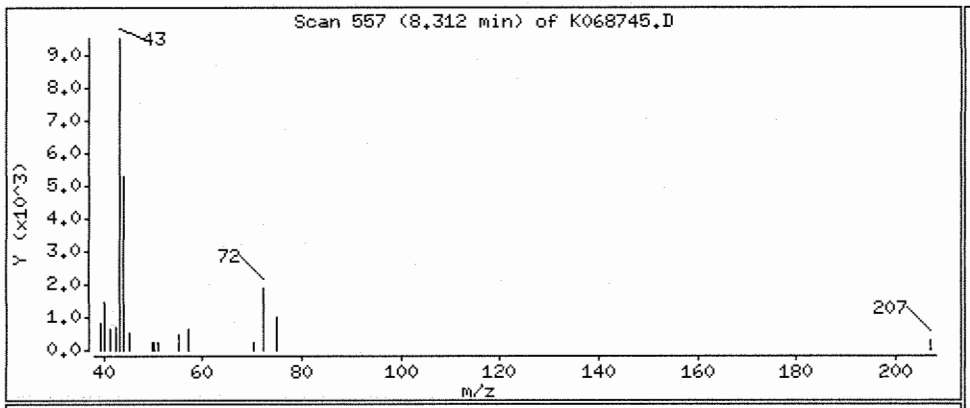
Operator: X

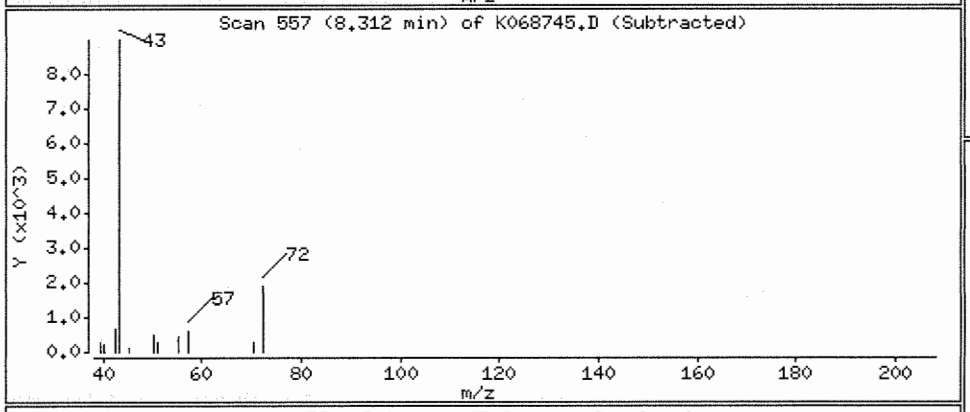
Column phase: DB-624

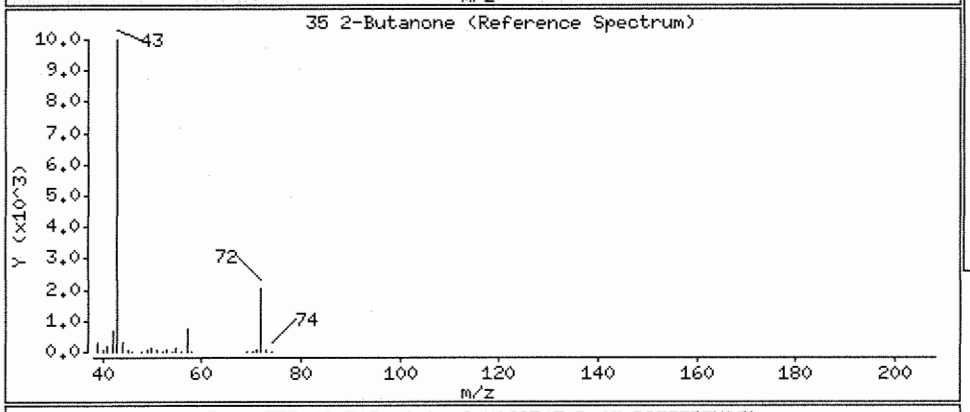
Column diameter: 0.32

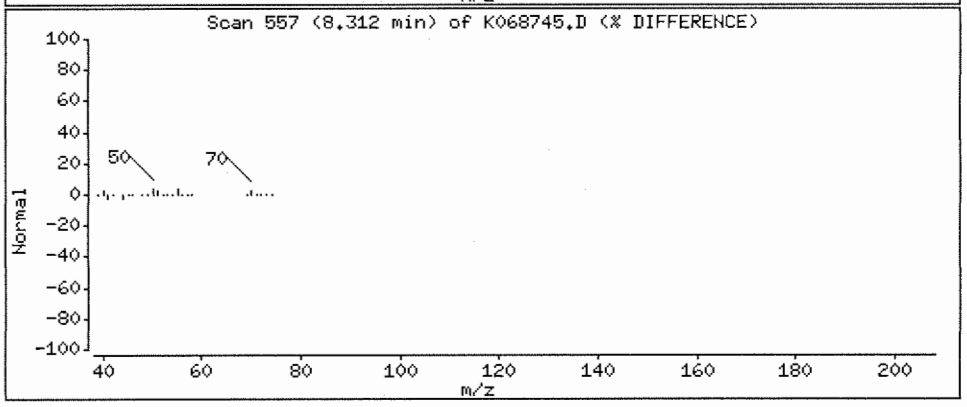
35 2-Butanone

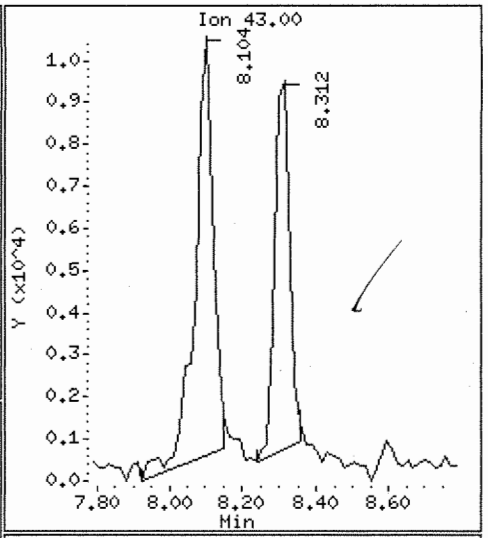
Concentration: 3.77 ug/L

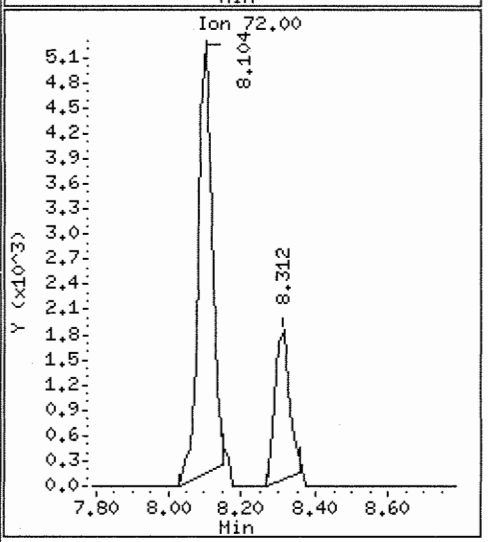












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

Client ID: T-54-GW-40

Instrument: MSK.i

Sample Info: D0602139-003

Purge Volume: 10.0

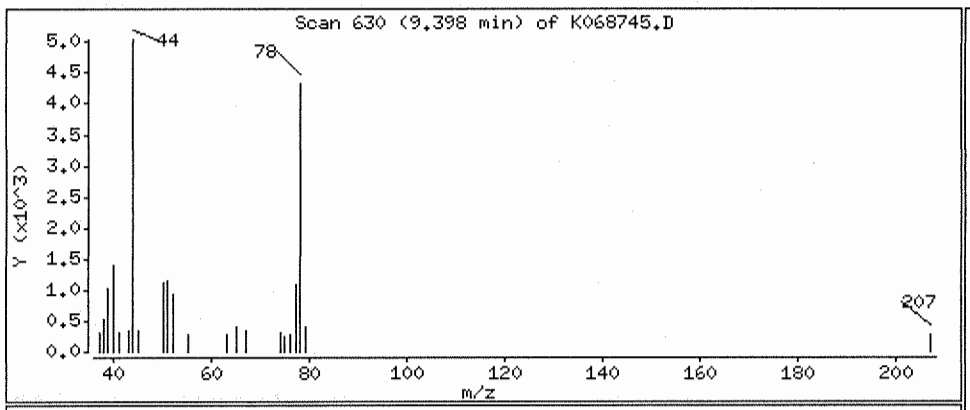
Operator: X

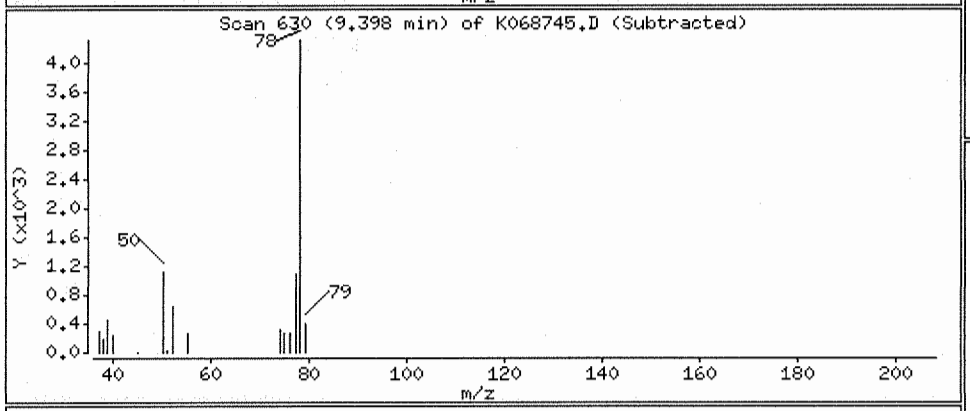
Column phase: DB-624

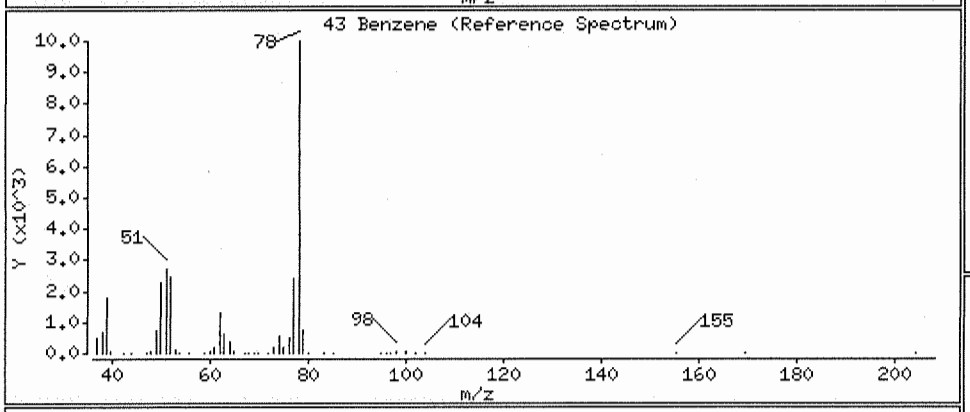
Column diameter: 0.32

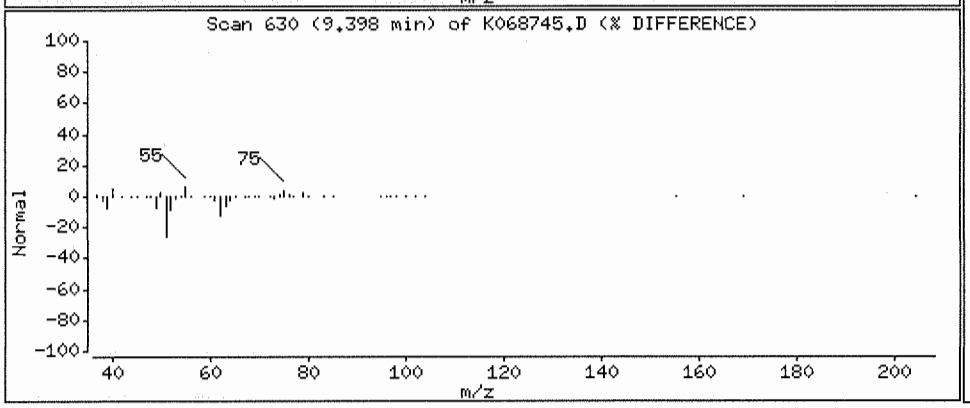
43 Benzene

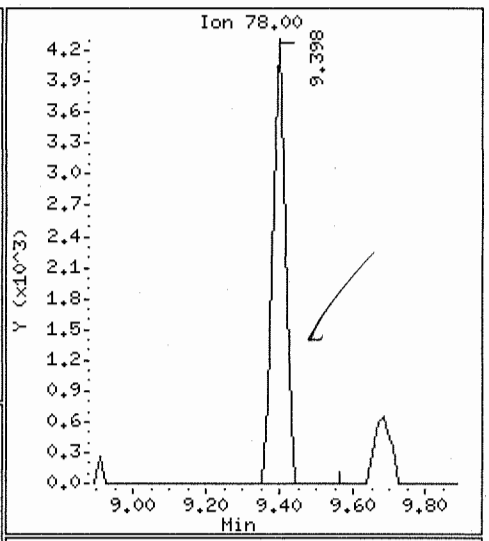
Concentration: 0.132 ug/L

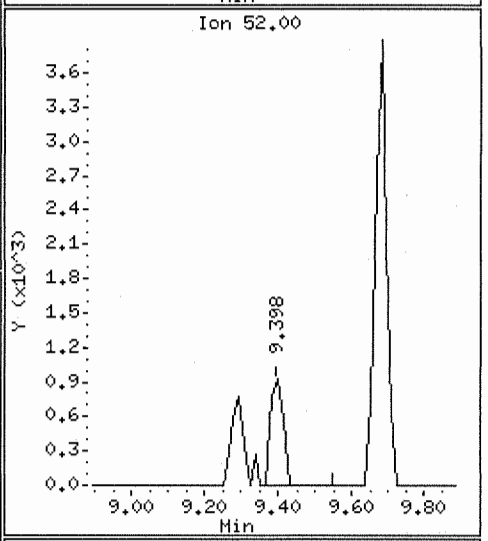


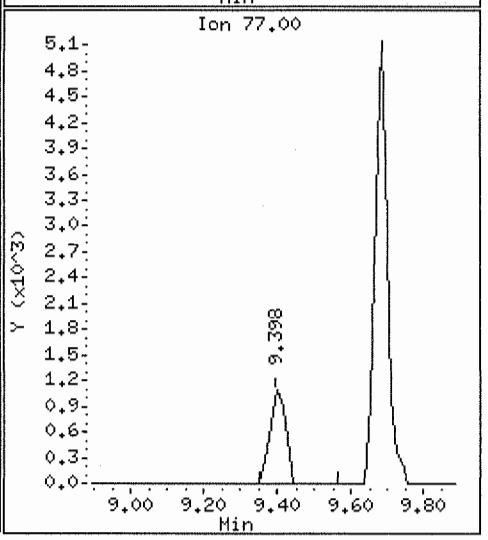












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

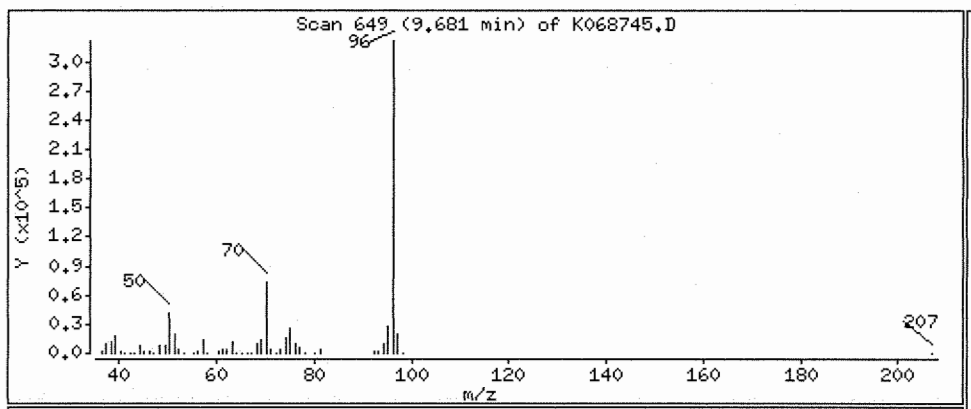
Client ID: T-54-GW-40 Instrument: MSK.i

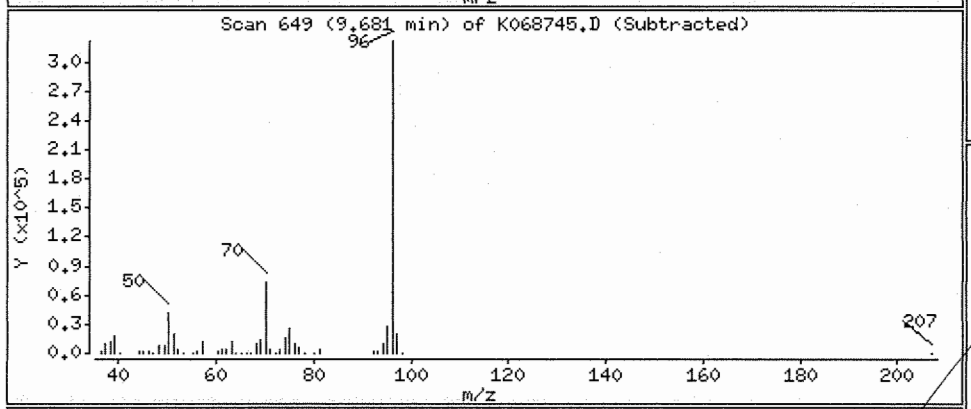
Sample Info: D0602139-003

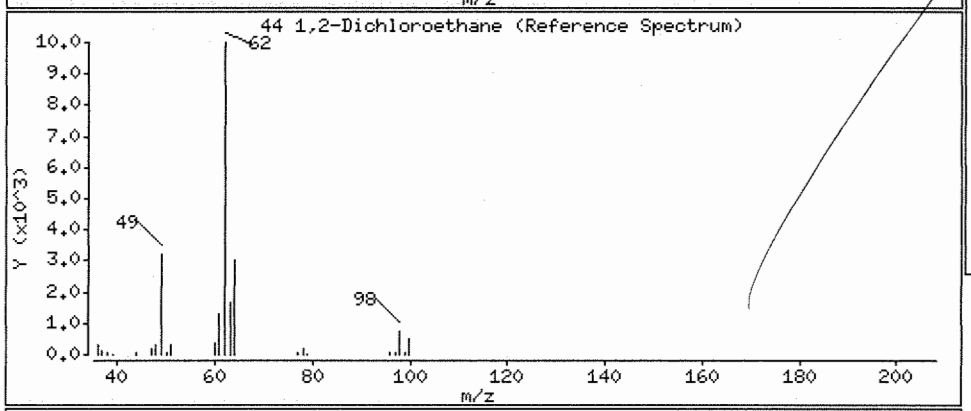
Purge Volume: 10.0 Operator: X

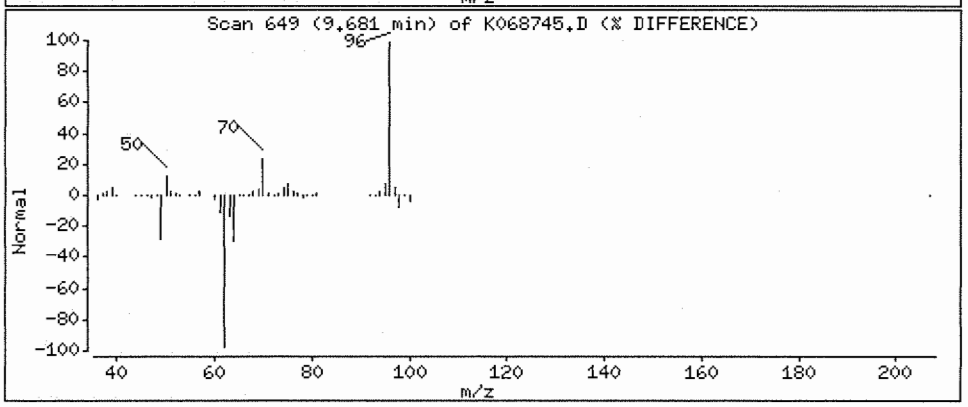
Column phase: DB-624 Column diameter: 0.32

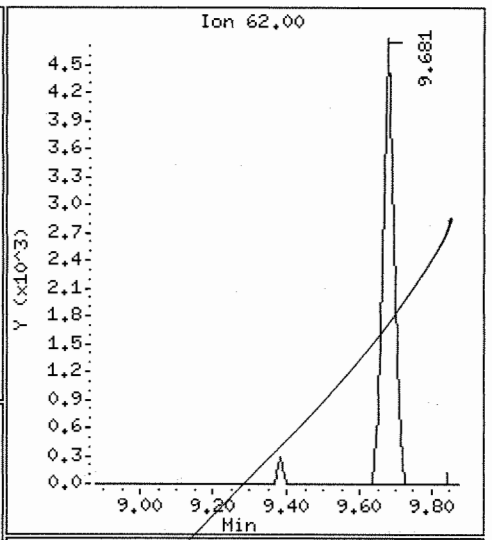
44 1,2-Dichloroethane Concentration: 0.395 ug/L

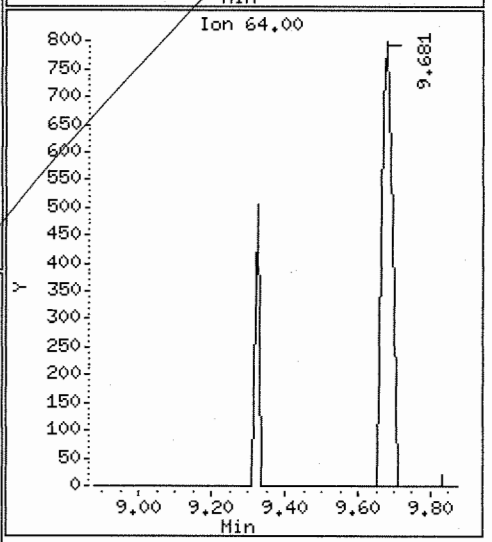












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

Client ID: T-54-GW-40

Instrument: MSK.i

Sample Info: D0602139-003

Purge Volume: 10.0

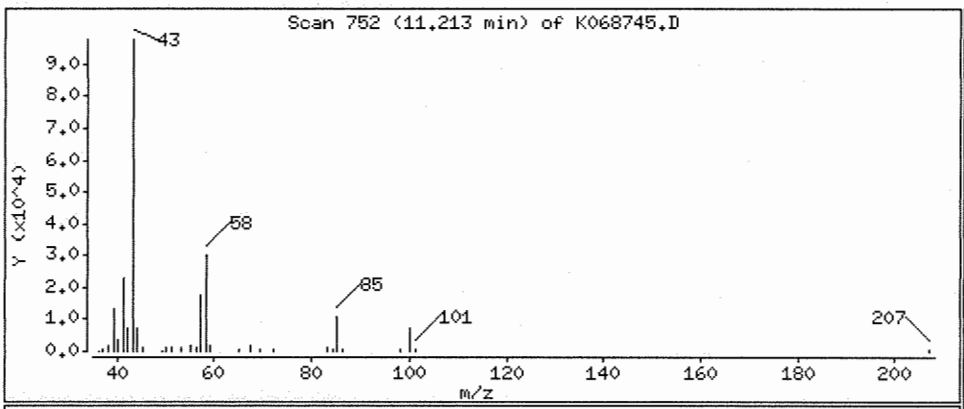
Operator: X

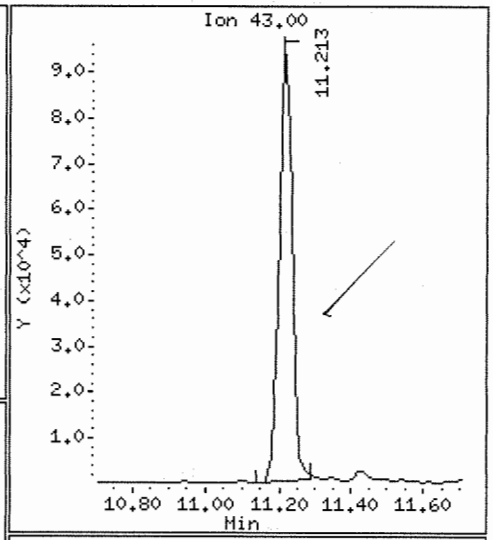
Column phase: DB-624

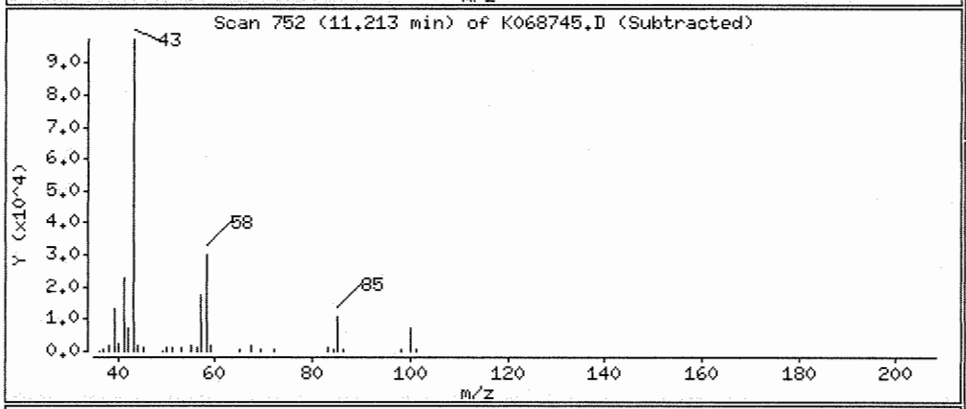
Column diameter: 0.32

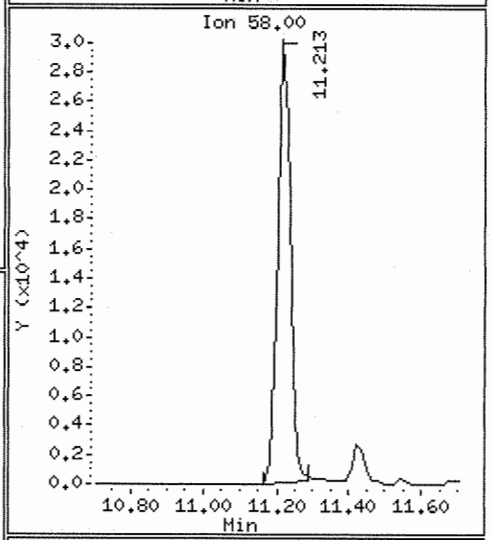
52 4-Methyl-2-pentanone

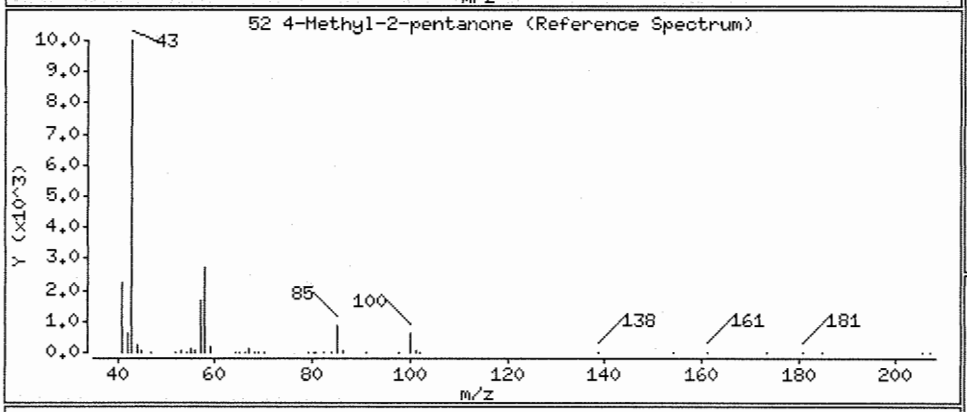
Concentration: 14.7 ug/L

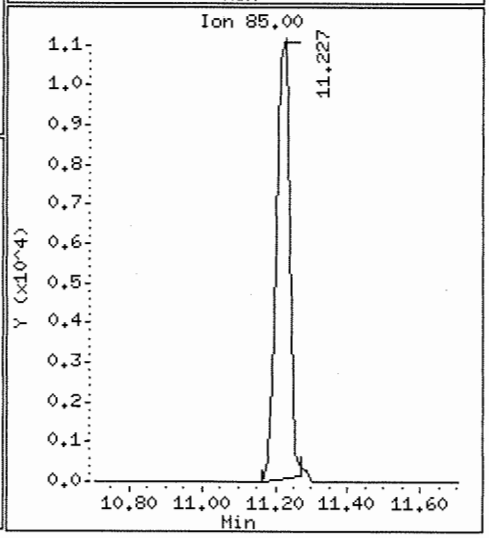


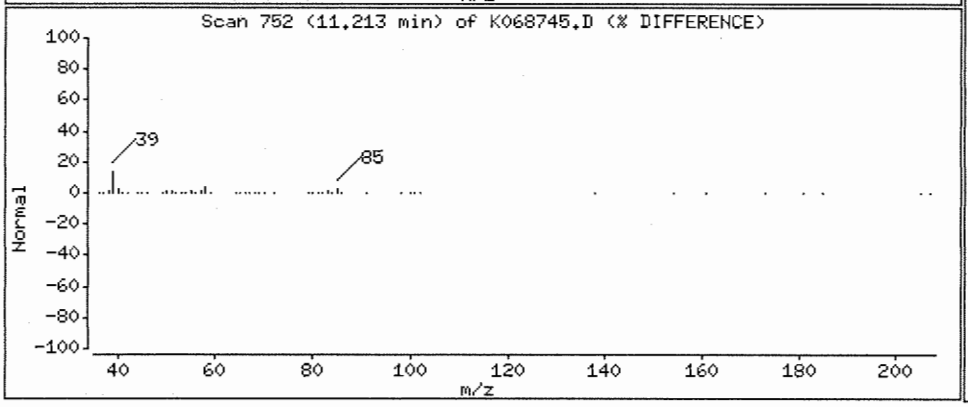












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

Client ID: T-54-GW-40

Instrument: MSK.i

Sample Info: D0602139-003

Purge Volume: 10.0

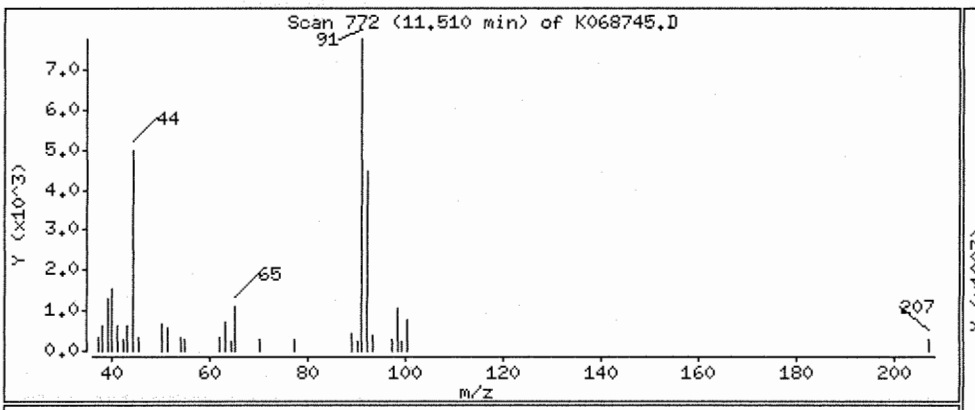
Operator: X

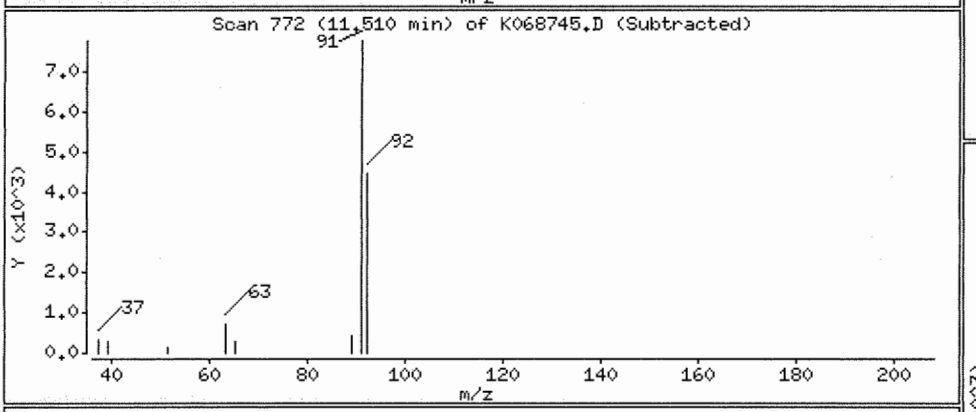
Column phase: DB-624

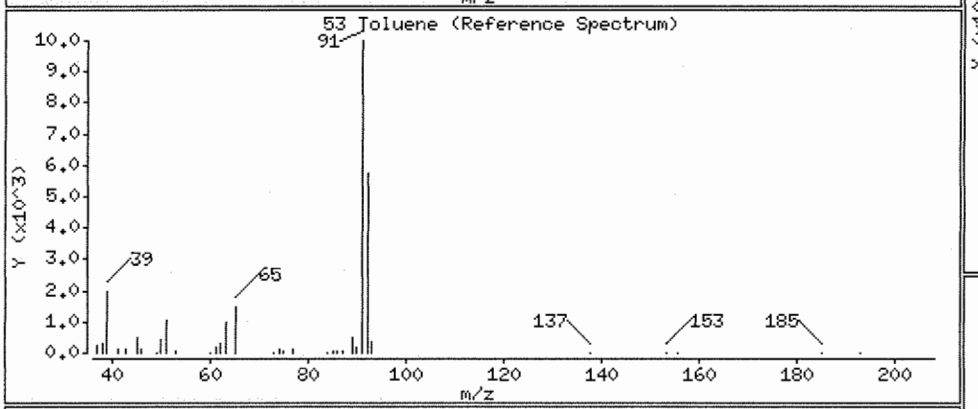
Column diameter: 0.32

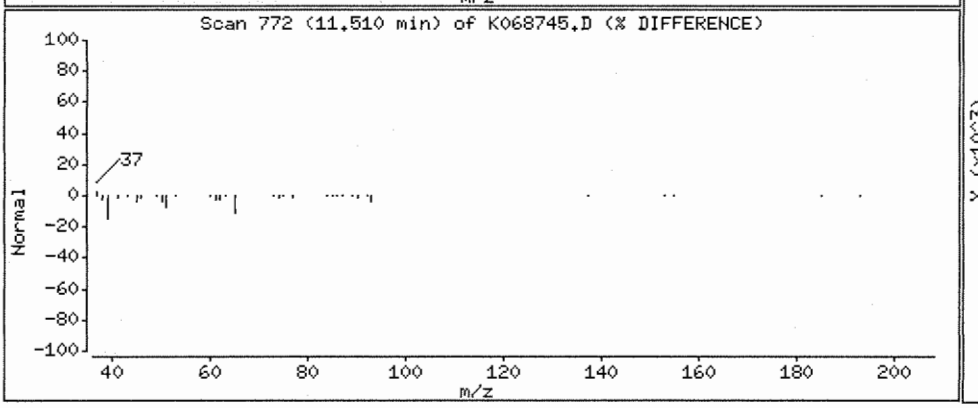
53 Toluene

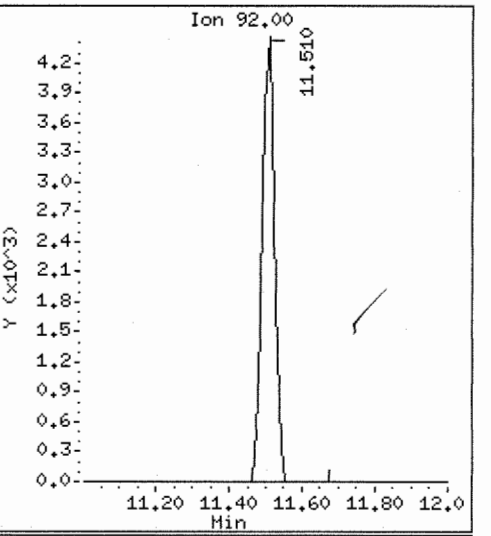
Concentration: 0.210 ug/L

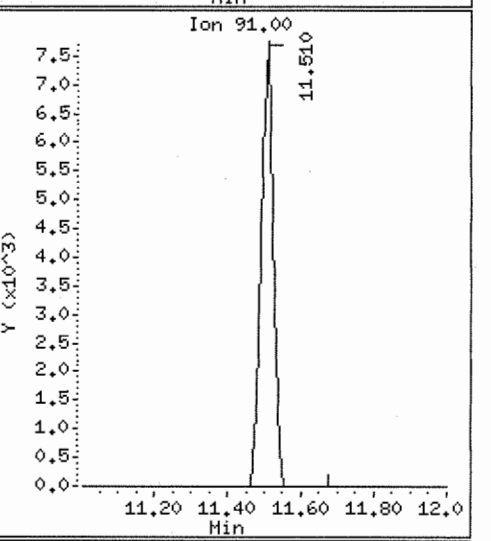


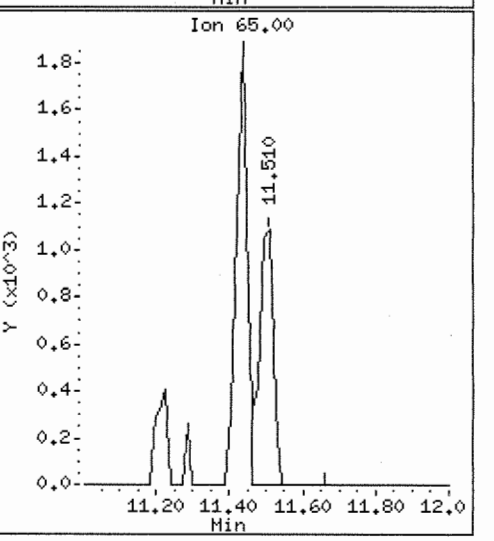












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

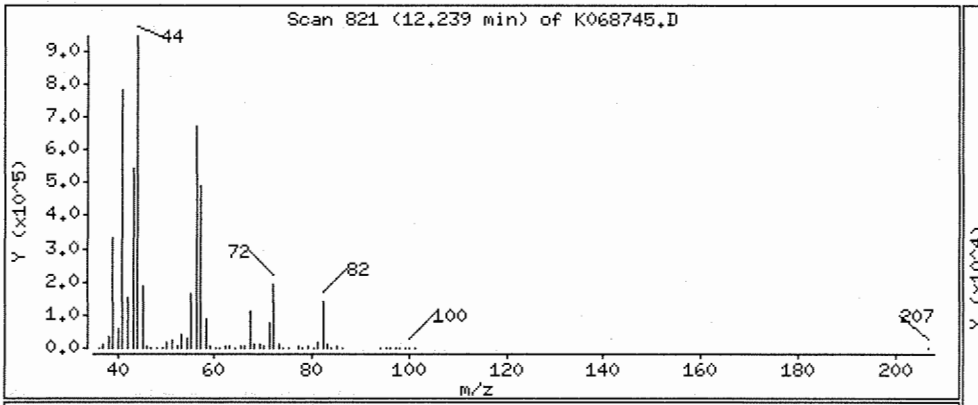
Client ID: T-54-GW-40 Instrument: MSK.i

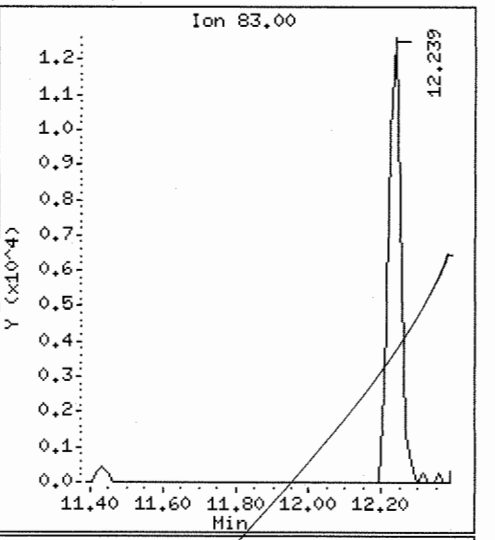
Sample Info: D0602139-003

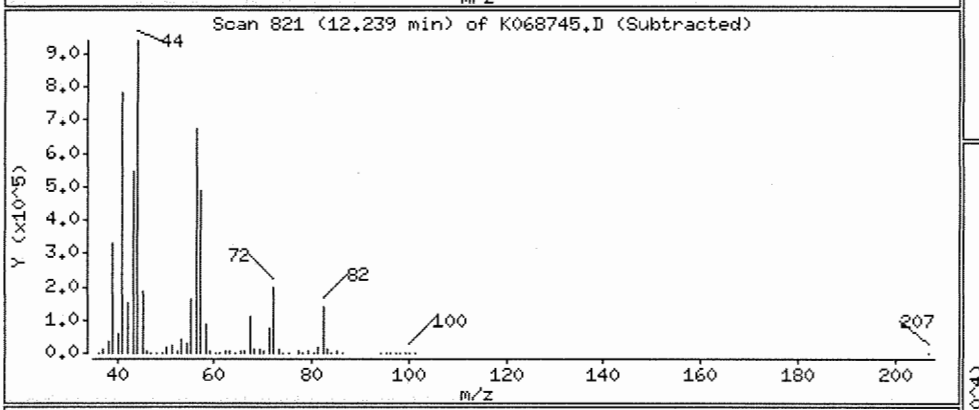
Purge Volume: 10.0 Operator: X

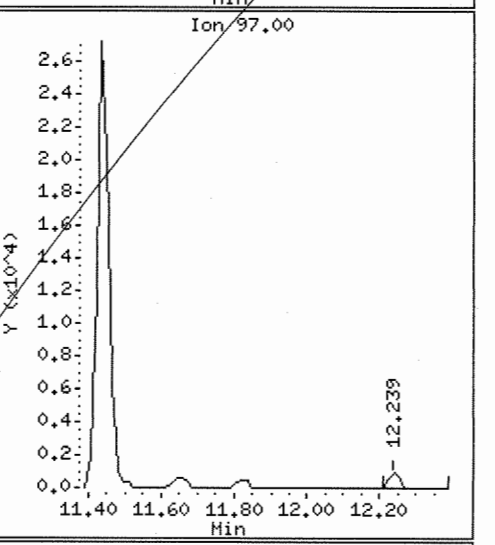
Column phase: DB-624 Column diameter: 0.32

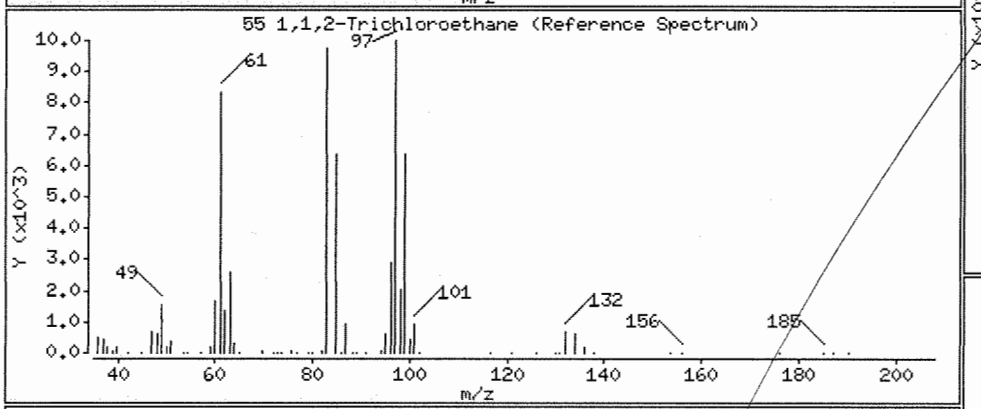
55 1,1,2-Trichloroethane Concentration: 2.08 ug/L

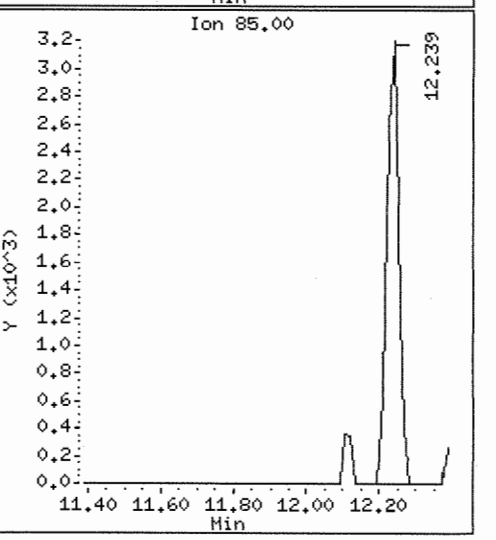


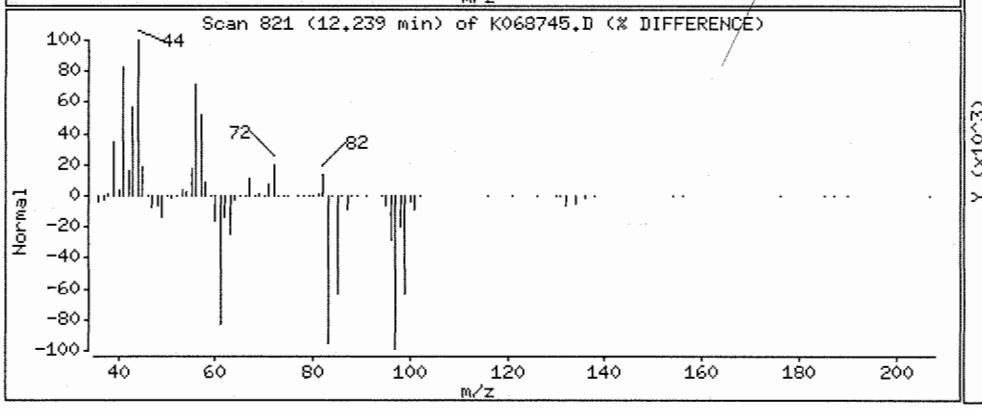












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

Client ID: T-54-GW-40

Instrument: MSK.i

Sample Info: D0602139-003

Purge Volume: 10.0

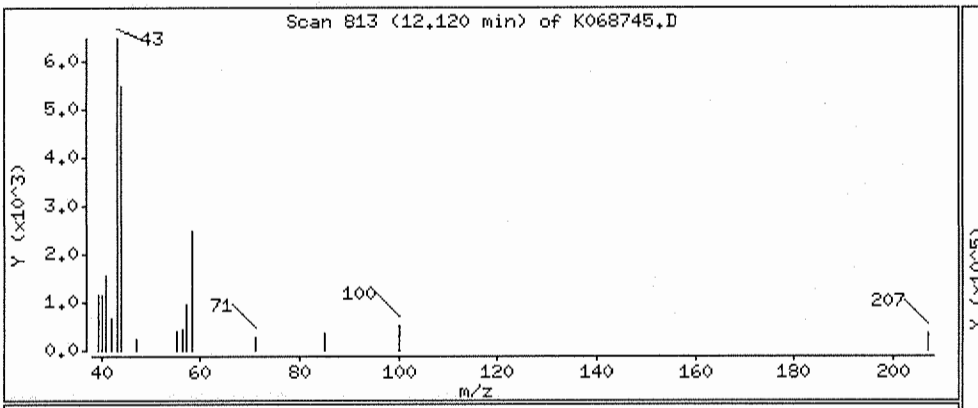
Operator: X

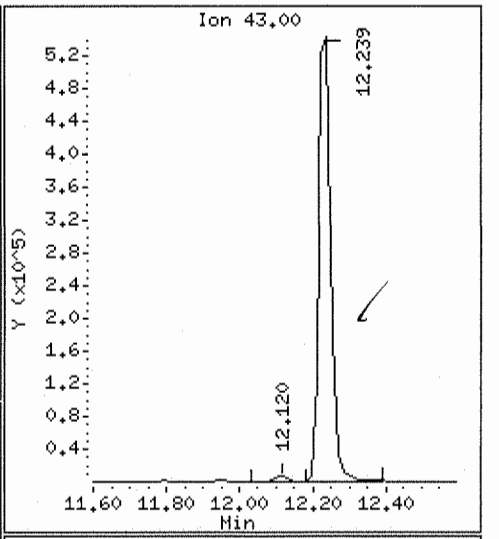
Column phase: DB-624

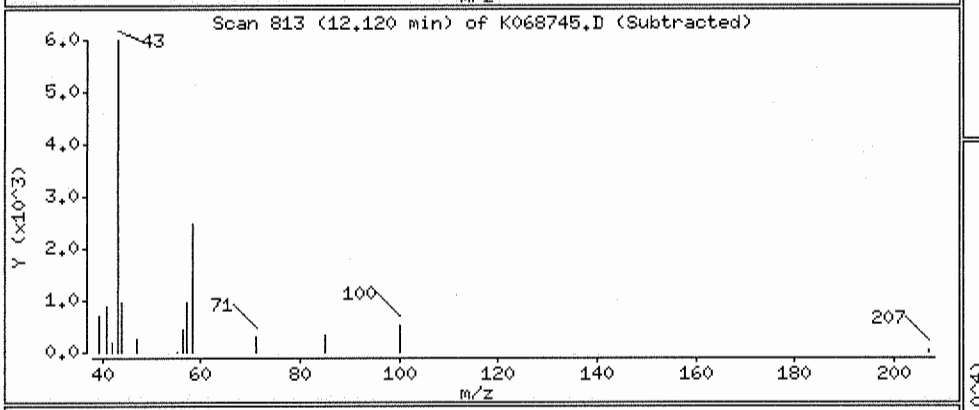
Column diameter: 0.32

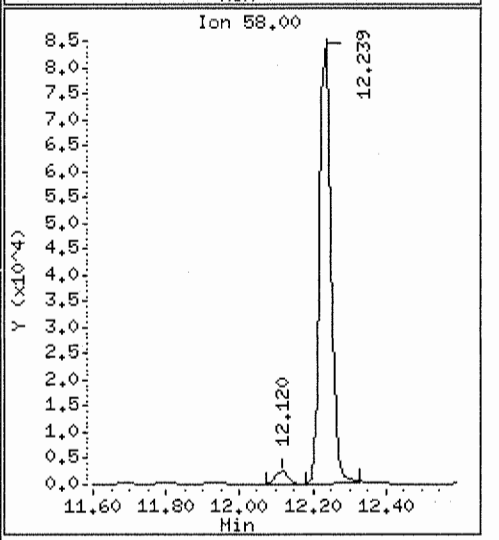
58 2-Hexanone

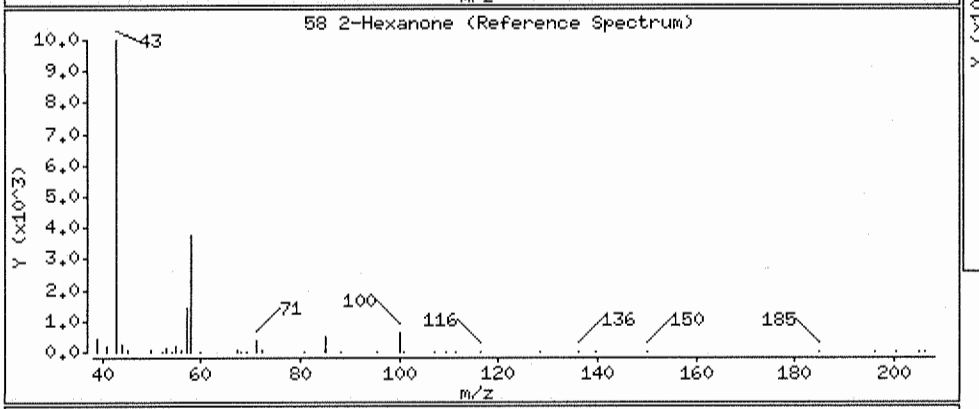
Concentration: 1.42 ug/L

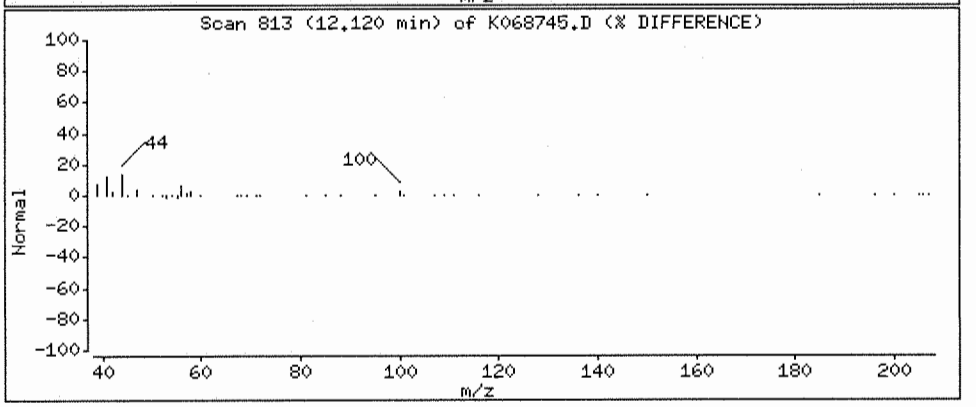












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

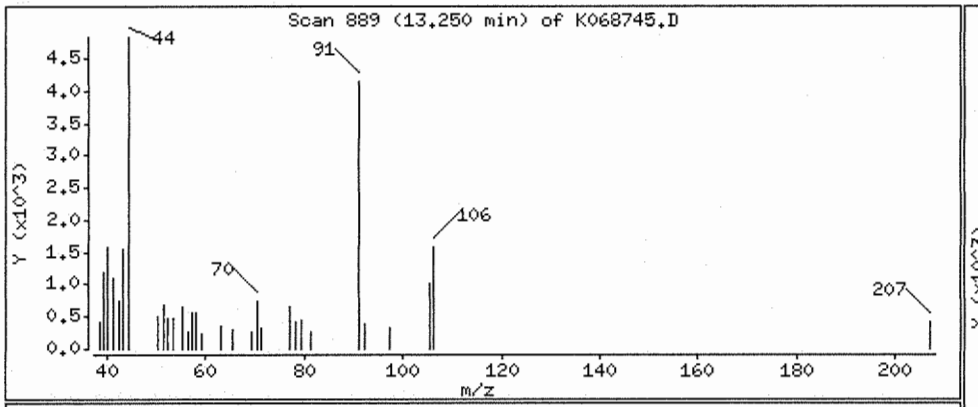
Client ID: T-54-GW-40 Instrument: MSK.i

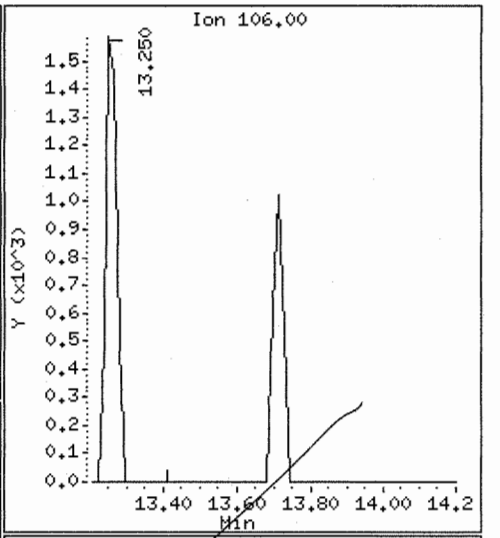
Sample Info: D0602139-003

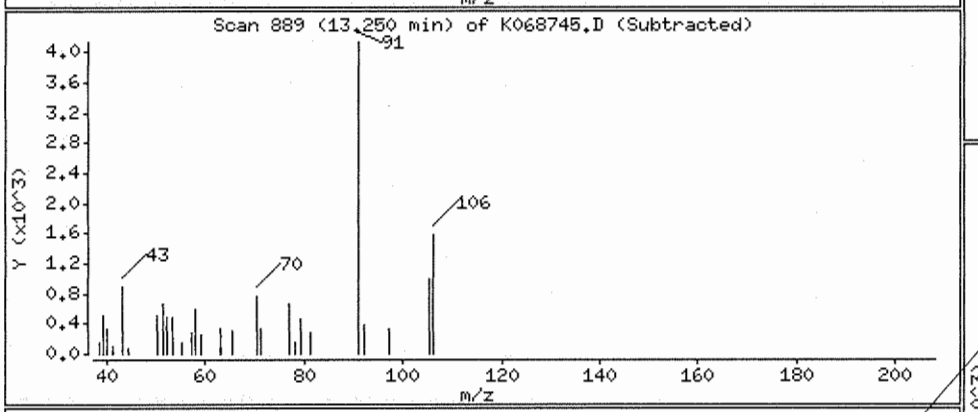
Purge Volume: 10.0 Operator: X

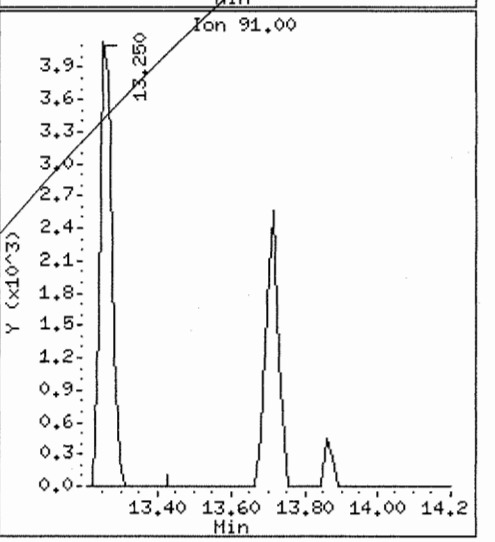
Column phase: DB-624 Column diameter: 0.32

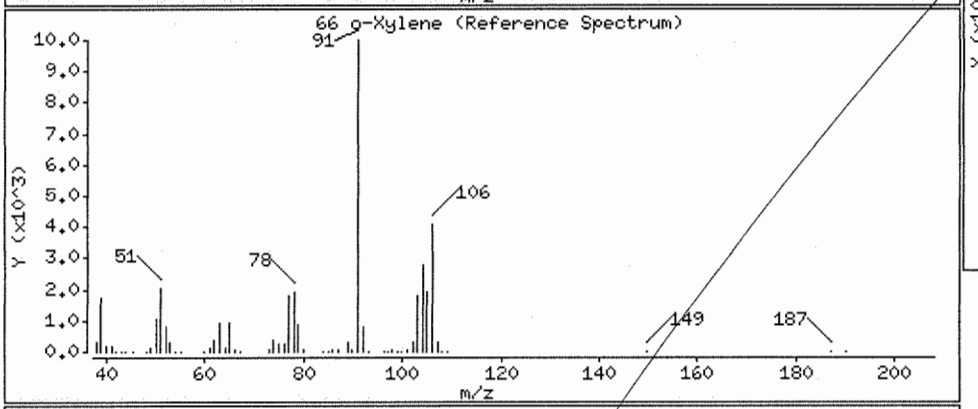
66 o-Xylene Concentration: 0.119 ug/L

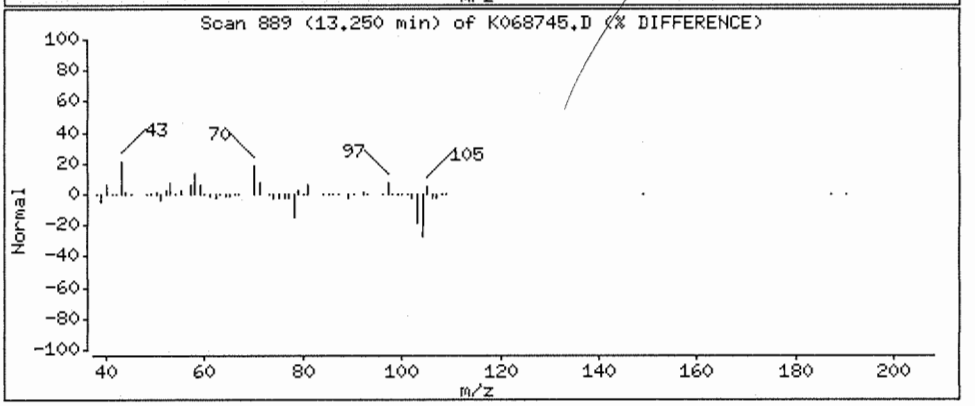












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

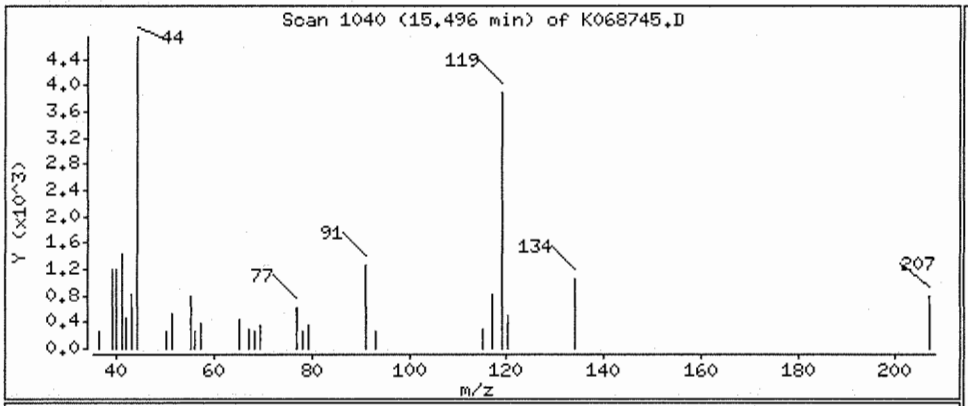
Client ID: T-54-GW-40 Instrument: MSK.i

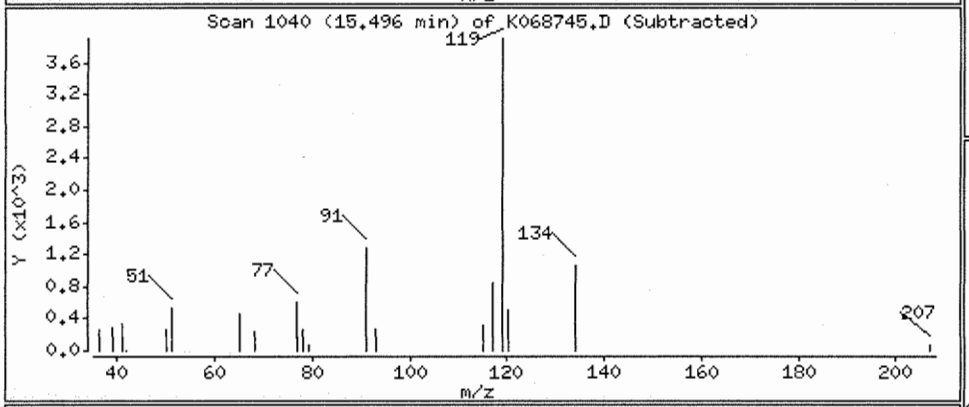
Sample Info: D0602139-003

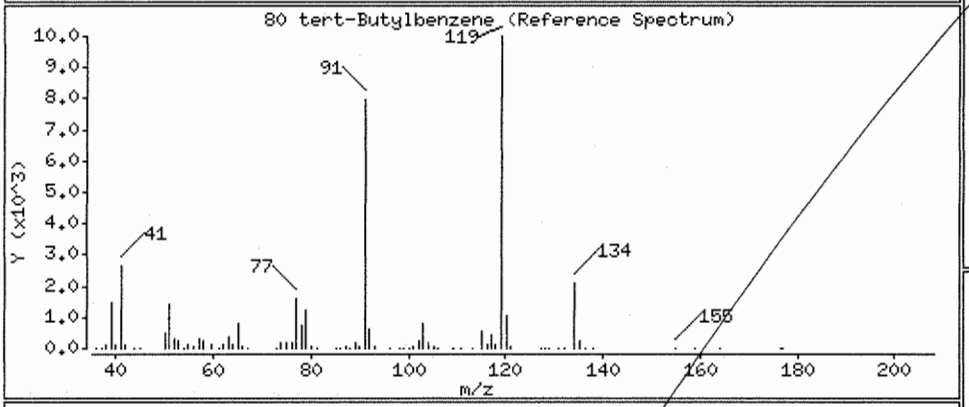
Purge Volume: 10.0 Operator: X

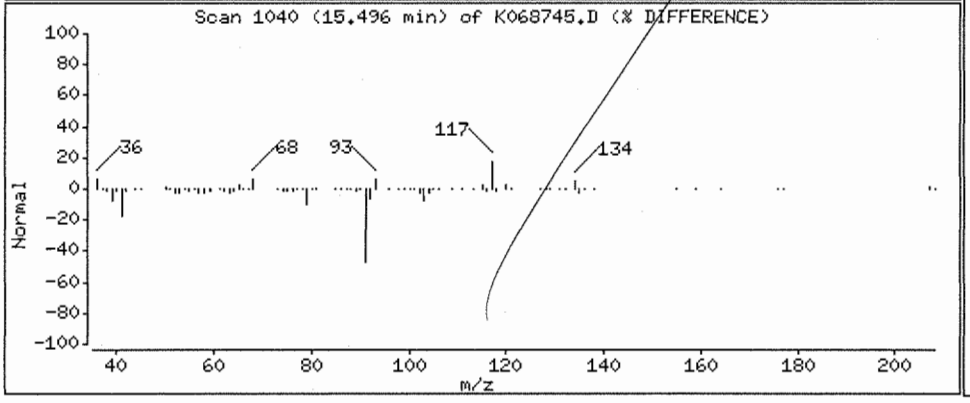
Column phase: DB-624 Column diameter: 0.32

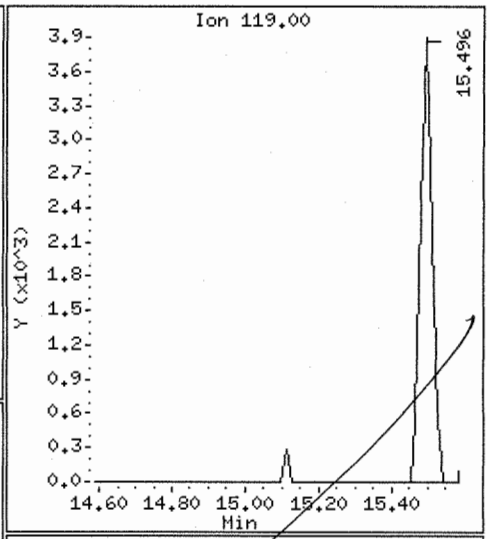
80 tert-Butylbenzene Concentration: 0.152 ug/L

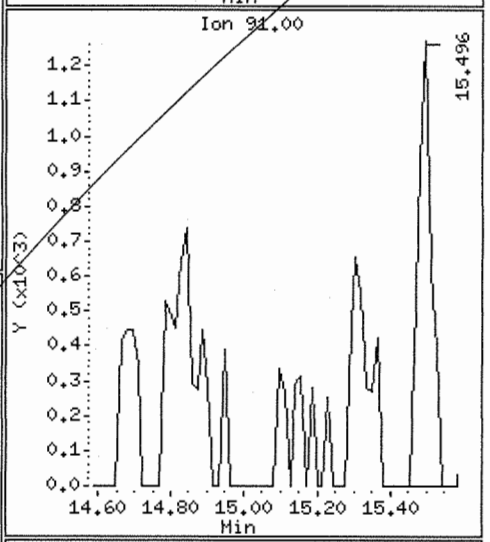


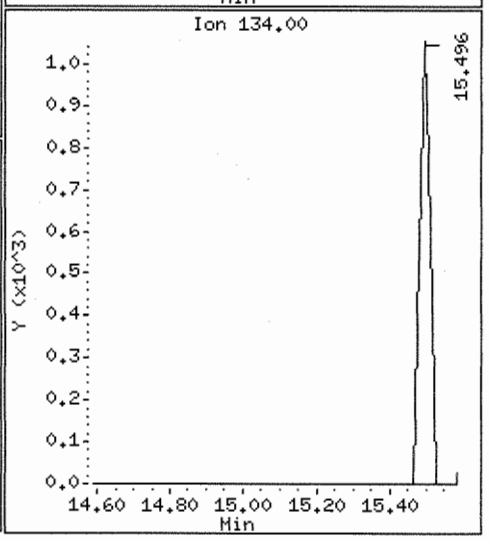












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068745.D

Date : 29-DEC-2006 14:33

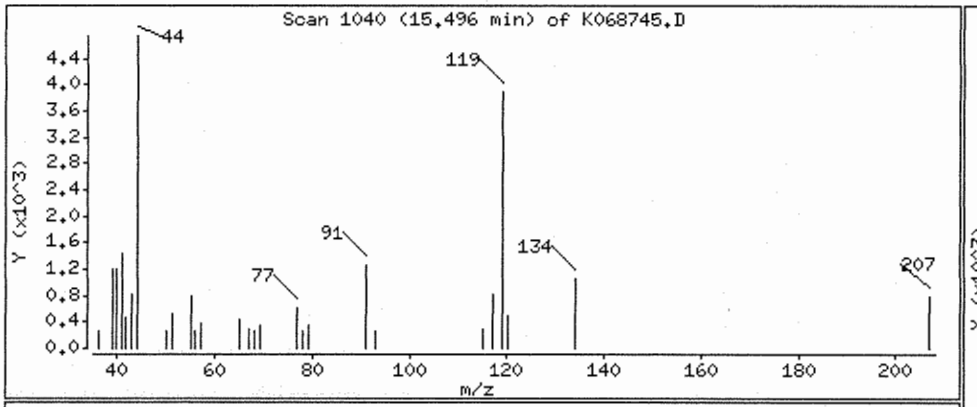
Client ID: T-54-GW-40 Instrument: MSK.i

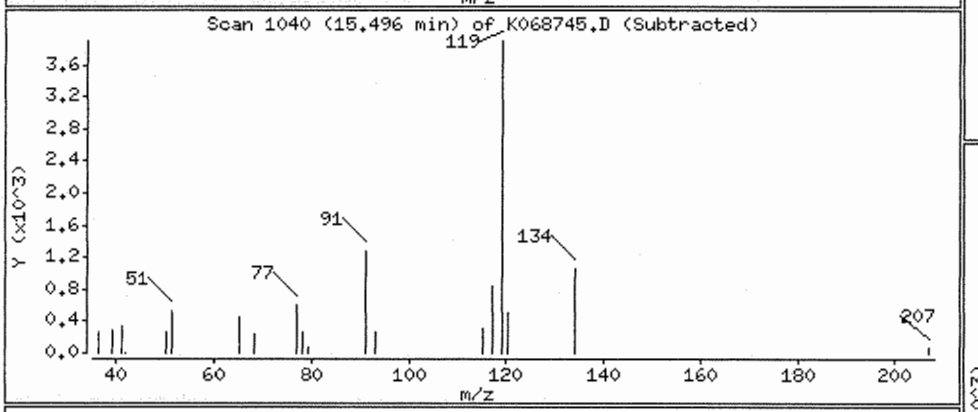
Sample Info: D0602139-003

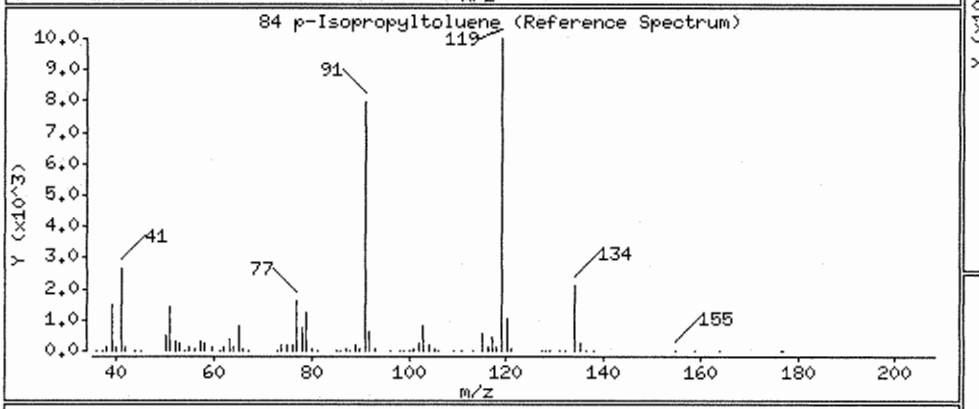
Purge Volume: 10.0 Operator: X

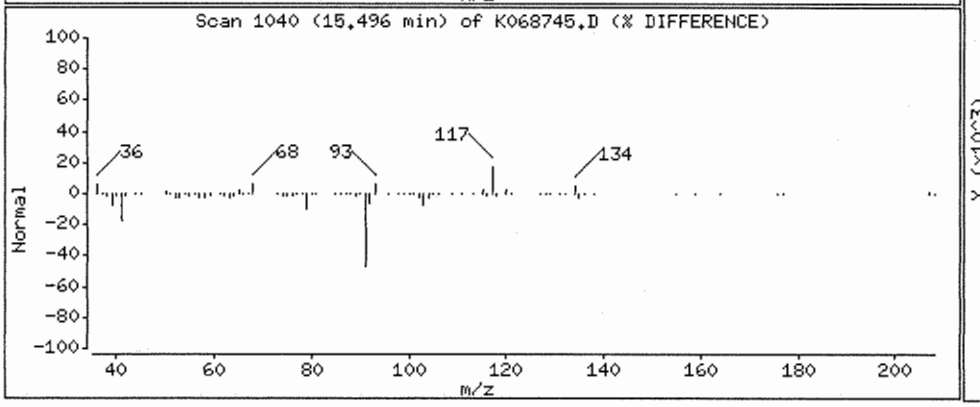
Column phase: DB-624 Column diameter: 0.32

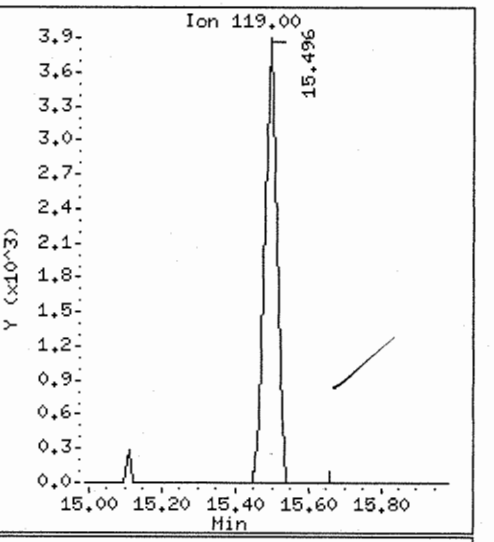
84 p-Isopropyltoluene Concentration: 0.138 ug/L

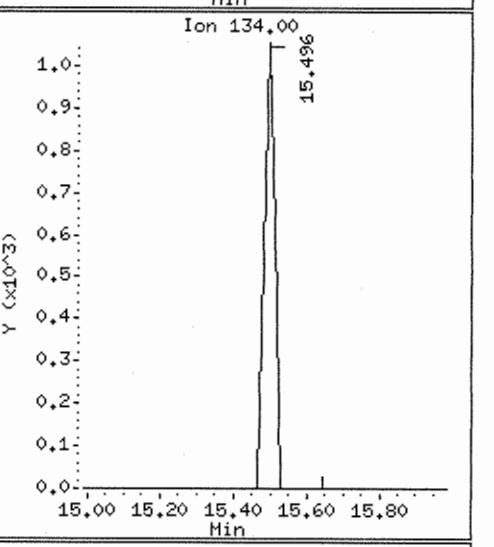


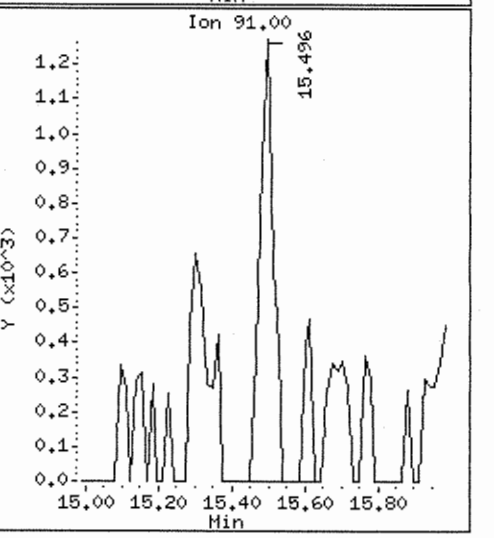












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-54-GW-65
Lab Code: D0602139-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	**0.27**	J	0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**33**		0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	**0.25**	J	0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**0.69**	J	0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	ND	U	0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	**0.29**	J	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**9.0**	J	0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	ND	U	0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	**0.41**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	**4.3**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	**8.7**	J	0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	**0.44**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	ND	U	0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	ND	U	0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-54-GW-65
Lab Code: D0602139-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	**0.14**	J	0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	ND	U	0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	**0.13**	J	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	ND	U	0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	**0.29**	J	0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	99	79-135	12/29/2006	
4-Bromofluorobenzene - SS	112	82-124	12/29/2006	
Dibromofluoromethane - SS	96	84-127	12/29/2006	
Toluene-d8 - SS	89	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D
Lab Smp Id: D0602139-004 Client Smp ID: T-54-GW-65
Inj Date : 29-DEC-2006 15:54
Operator : X Inst ID: MSK.i
Smp Info : D0602139-004
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 13:33 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

1/02/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.685	9.670	(1.000)	695789	10.0000	
* 2	Chlorobenzene-d5	117	13.031	13.016	(1.000)	481367	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.619	15.604	(1.000)	246564	10.0000	
$ 4	Dibromofluoromethane	113	8.881	8.866	(0.917)	210482	9.62451	9.62
$ 5	1,2-Dichloroethane-d4	65	9.298	9.283	(0.960)	228128	9.88963	9.89
$ 6	Toluene-d8	98	11.425	11.425	(0.877)	549130	8.93020	8.93
$ 7	Bromofluorobenzene	174	14.296	14.280	(0.915)	239941	11.2358	11.2
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	3.824	3.824	(0.395)	4750	0.27371	0.274(a)
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.880	4.642	(0.504)	1627	0.15416	0.154(a)
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.070	6.070	(0.627)	142302	33.0927	33.1
21	Carbon disulfide	76	6.442	6.427	(0.665)	17022	0.25092	0.251(a)
22	Methylene chloride	84	6.710	6.695	(0.693)	14972	0.68607	0.686(a)
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	7.320	7.632	(0.756)	24996	0.36595	0.366(a)

12/2/07

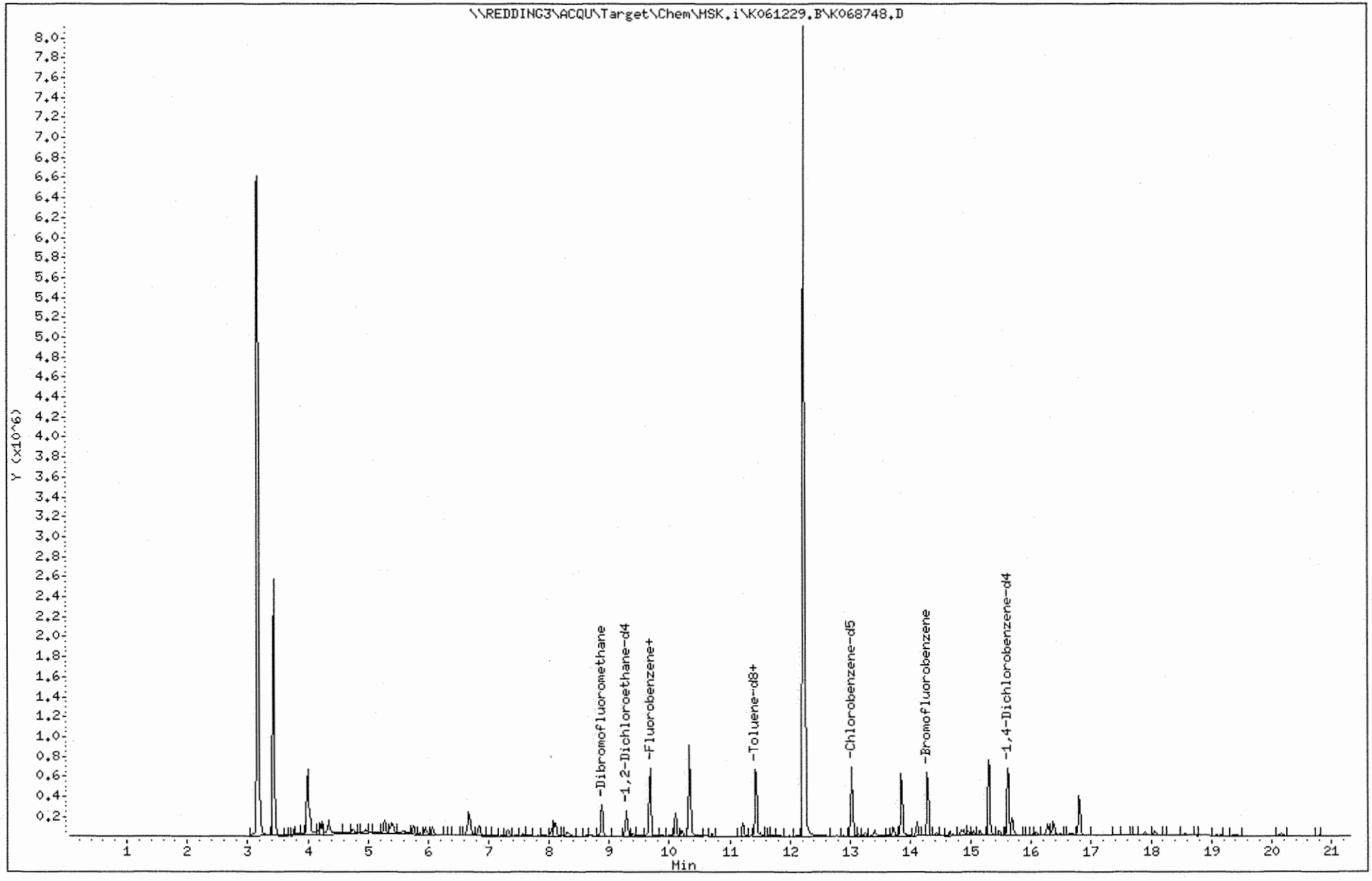
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	8.048	8.346	(0.831)	6432	0.21867	0.219(a)
33	cis-1,2-Dichloroethene	96	8.346	8.331	(0.862)	6214	0.28771	0.288(aQ)
35	2-Butanone	43	8.301	8.286	(0.857)	55156	9.00369	9.00(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	9.402	9.387	(0.971)	29742	0.41445	0.414(a)
44	1,2-Dichloroethane	62	9.685	9.372	(1.000)	9729	0.36485	0.365(a)
45	Trichloroethene	95	10.101	10.086	(1.043)	91078	4.28885	4.29
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	11.217	11.202	(1.158)	126920	8.68919	8.69(a)
53	Toluene	92	11.514	11.499	(0.884)	19206	0.43698	0.437(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.228	11.886	(0.938)	42880	3.26345	3.26(Q)
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	12.228	12.094	(0.938)	1934094	202.392	202
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	13.135	13.254	(1.008)	8453	0.29621	0.296(aQ)
66	o-Xylene	106	13.701	13.700	(1.051)	3914	0.14053	0.140(a)
M 67	Xylene (total)	106				12367	0.43674	0.437(a)
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	14.117	14.087	(1.083)	9427	0.12799	0.128(aQ)
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	15.500	15.084	(0.992)	16596	0.31905	0.319(a)
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	15.500	15.485	(0.992)	16596	0.28996	0.290(aQ)
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D
Date : 29-DEC-2006 15:54
Client ID: T-54-GW-65
Sample Info: D0602139-004
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



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Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

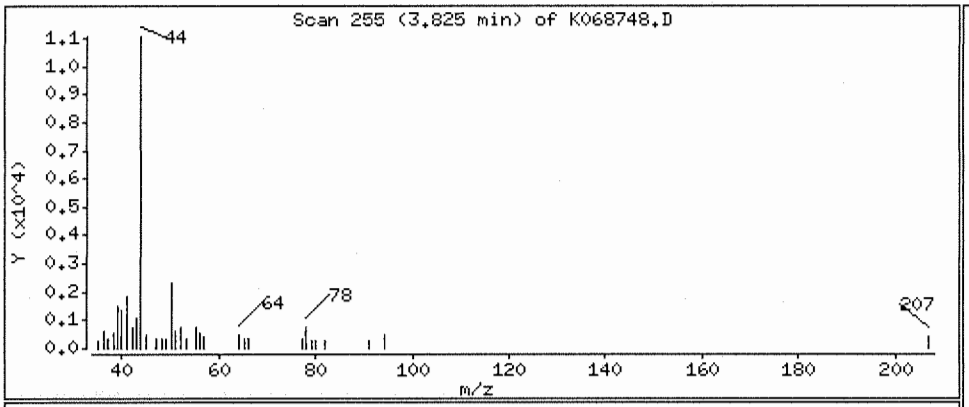
Operator: X

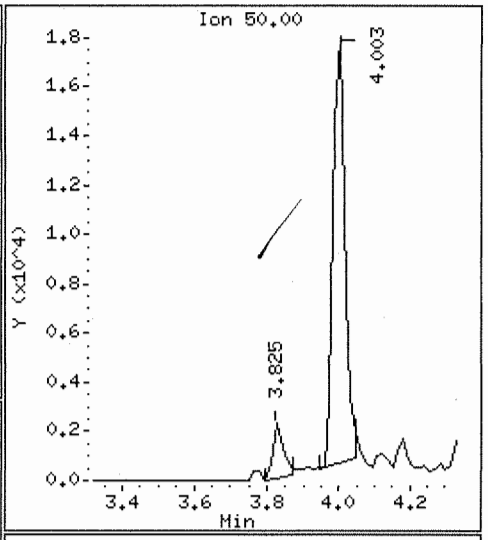
Column phase: DB-624

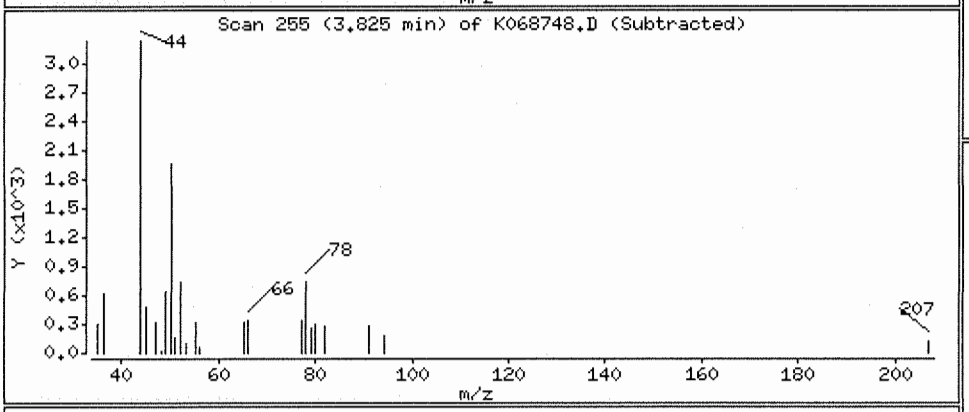
Column diameter: 0.32

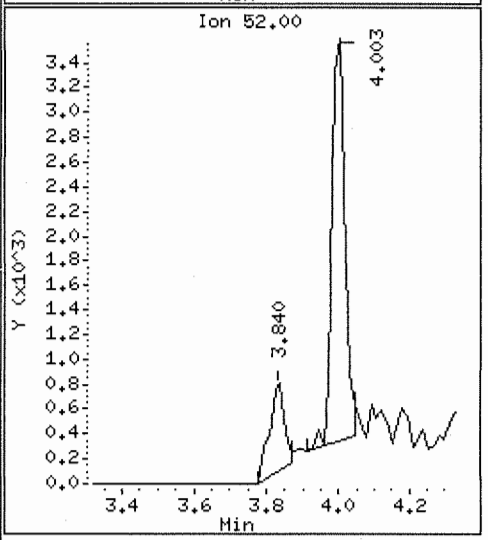
10 Chloromethane

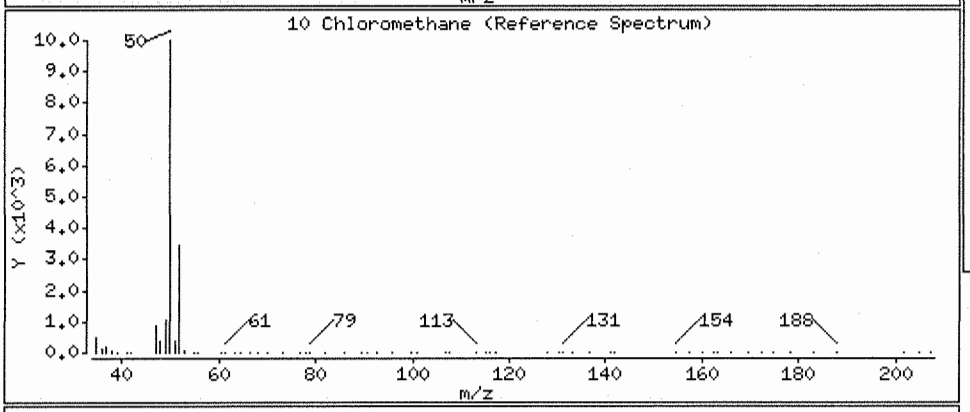
Concentration: 0.274 ug/L

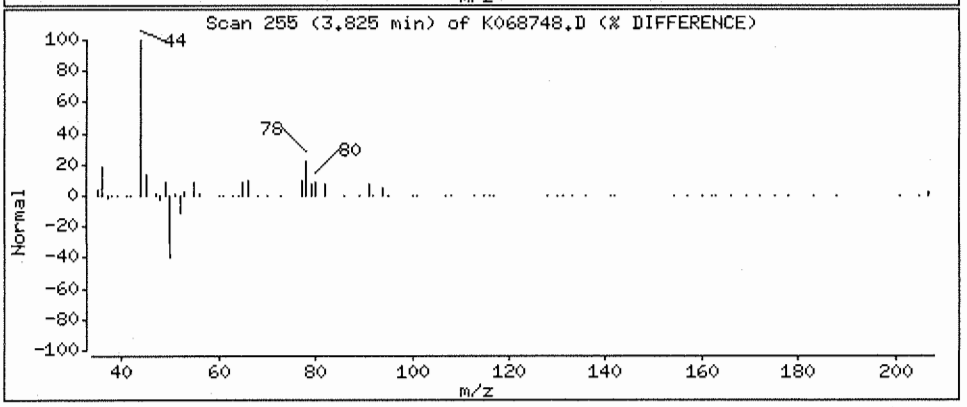












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Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

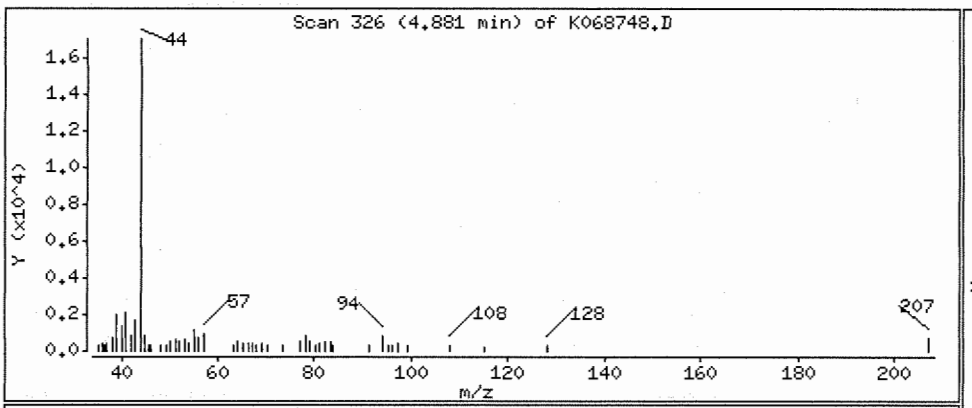
Operator: X

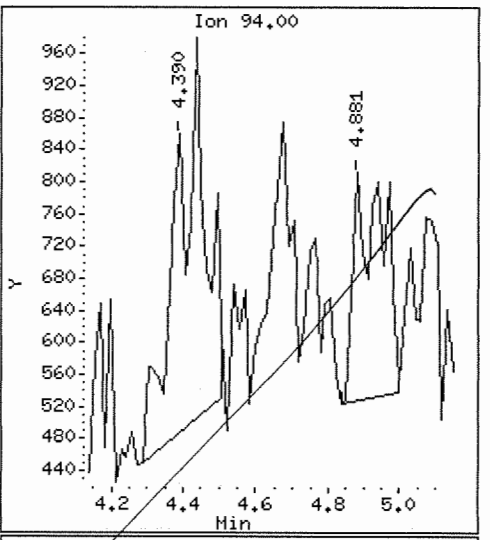
Column phase: DB-624

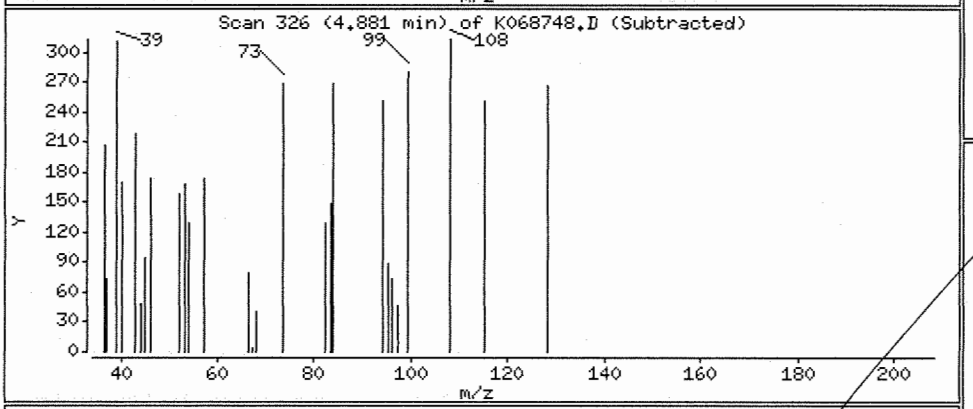
Column diameter: 0.32

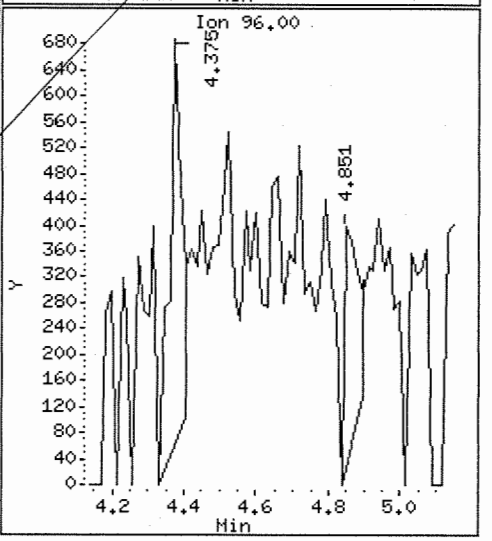
12 Bromomethane

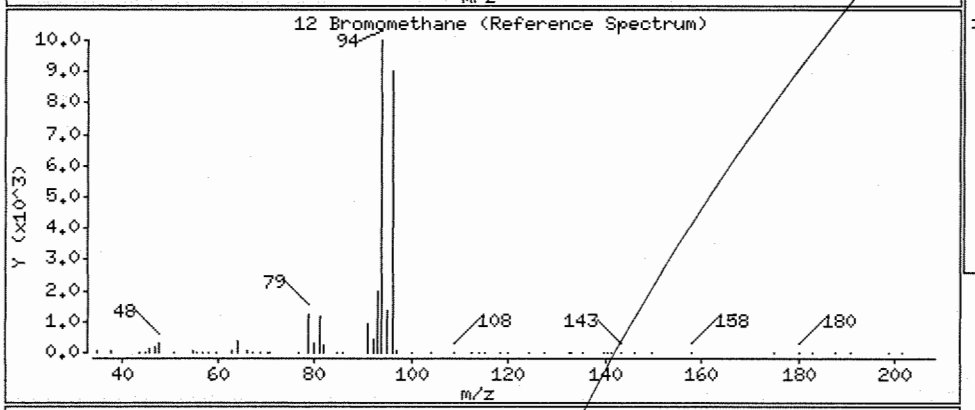
Concentration: 0.154 ug/L

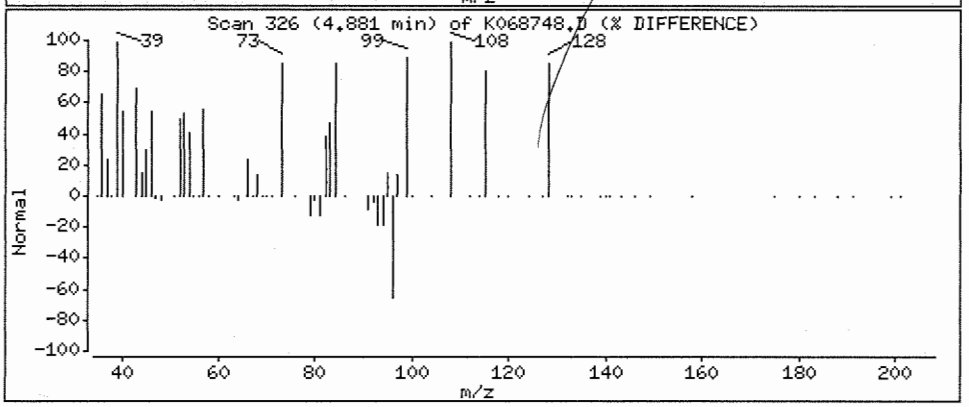












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

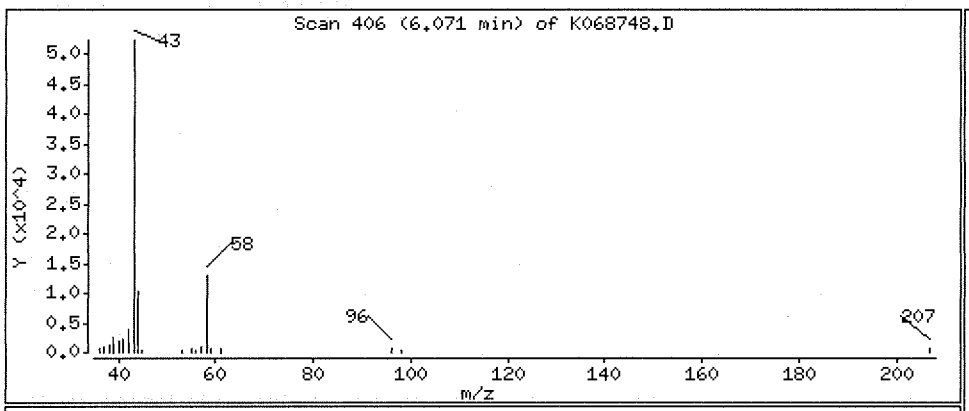
Client ID: T-54-GW-65 Instrument: MSK.i

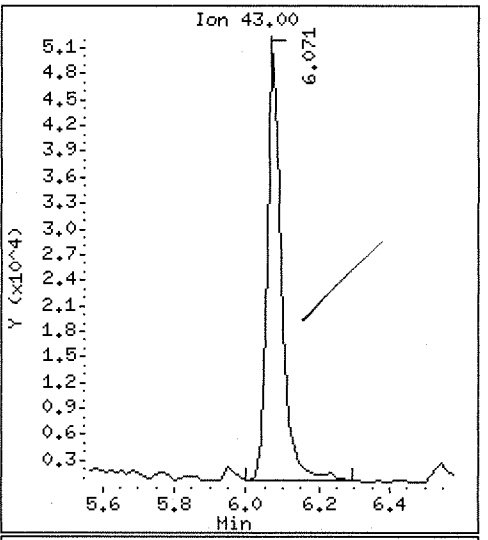
Sample Info: D0602139-004

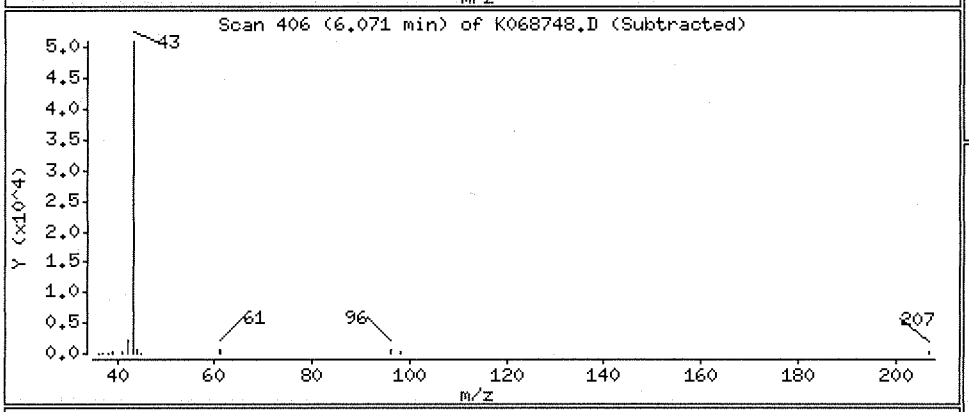
Purge Volume: 10.0 Operator: X

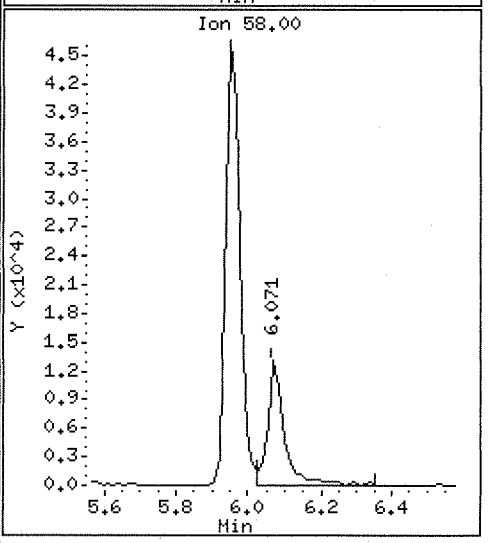
Column phase: DB-624 Column diameter: 0.32

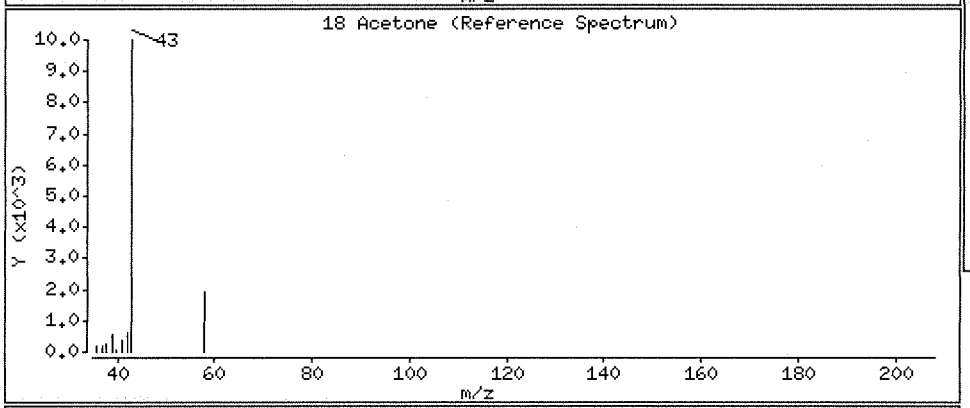
18 Acetone Concentration: 33.1 ug/L

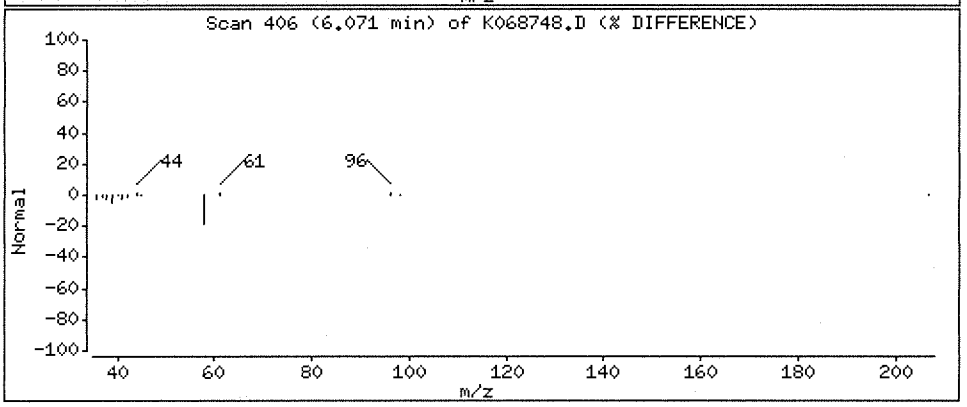












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

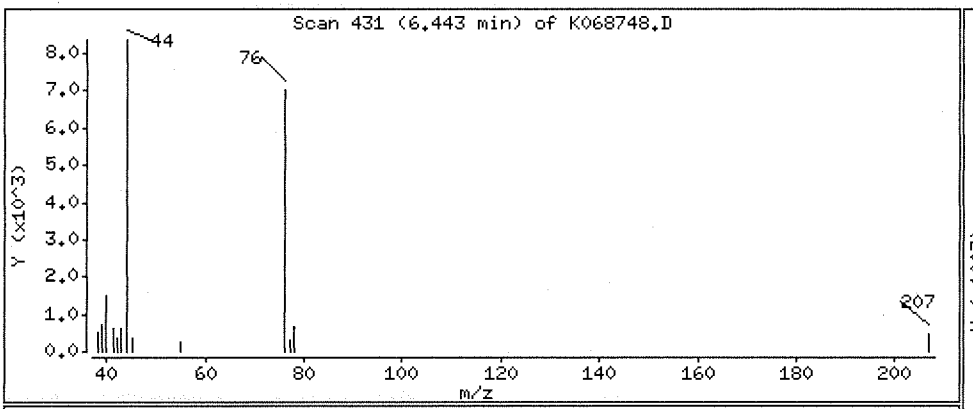
Operator: X

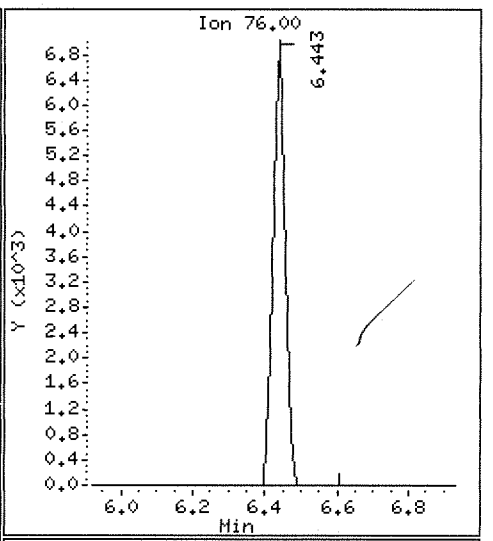
Column phase: DB-624

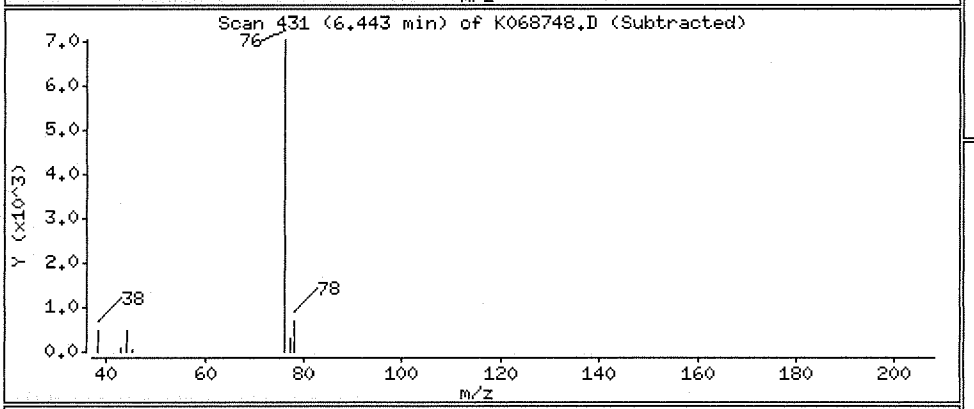
Column diameter: 0.32

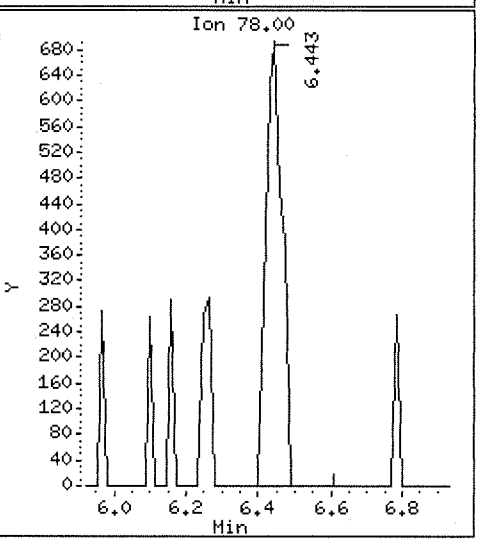
21 Carbon disulfide

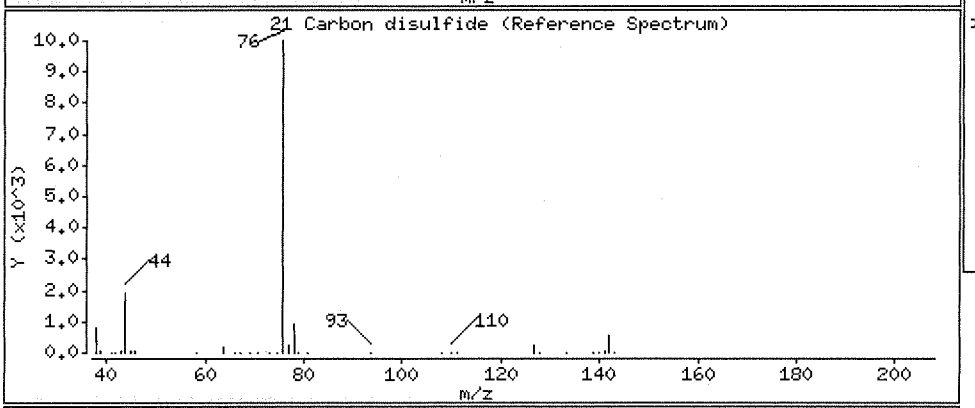
Concentration: 0.251 ug/L

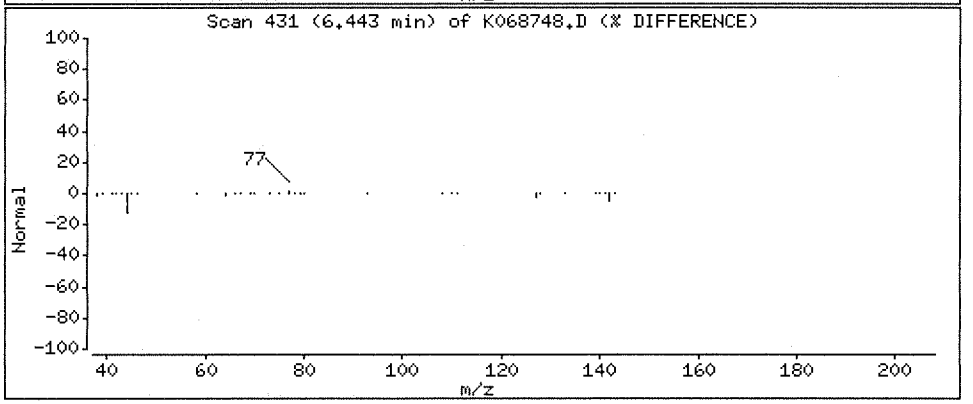












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

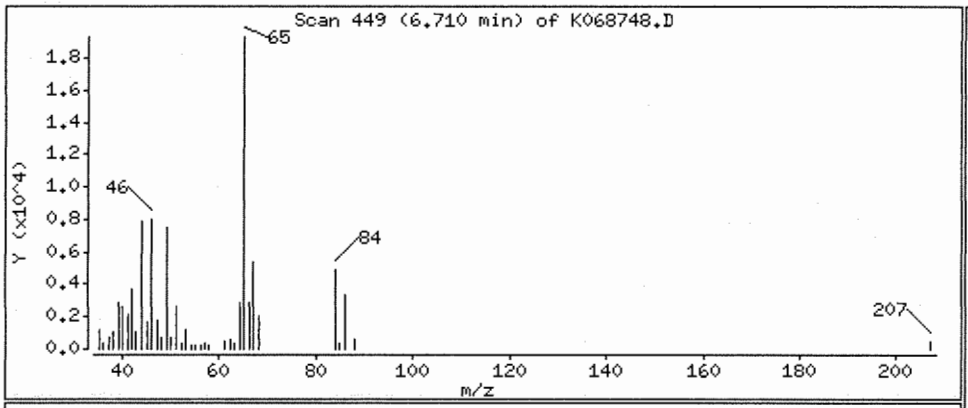
Client ID: T-54-GW-65 Instrument: MSK.i

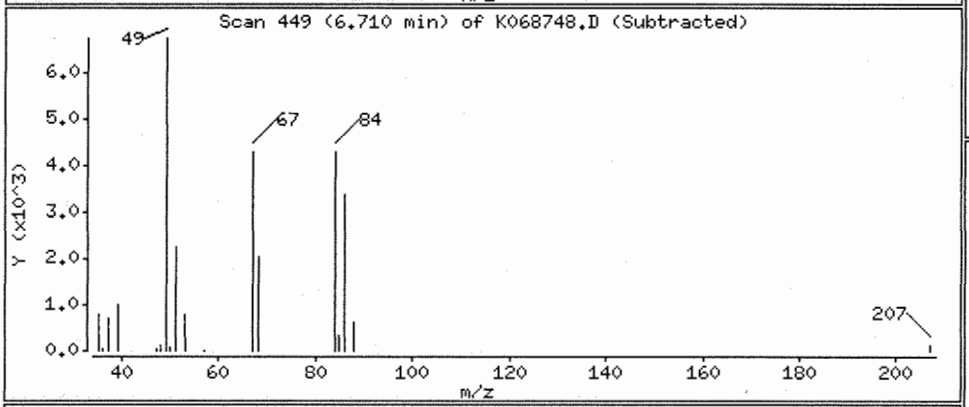
Sample Info: D0602139-004

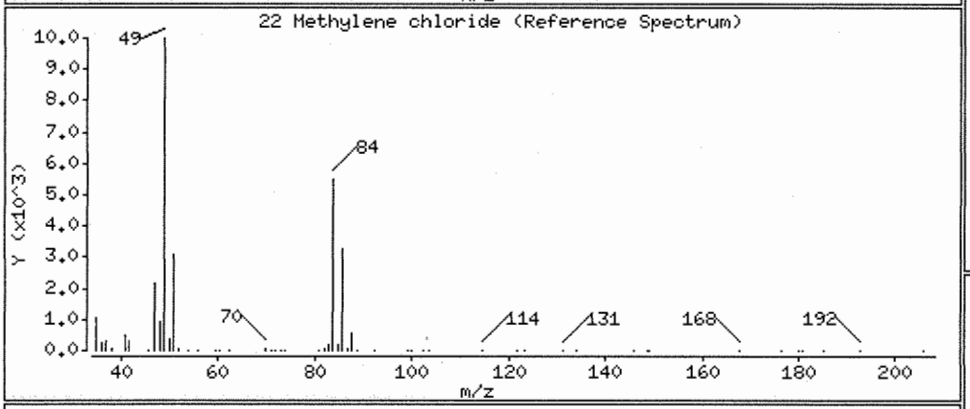
Purge Volume: 10.0 Operator: X

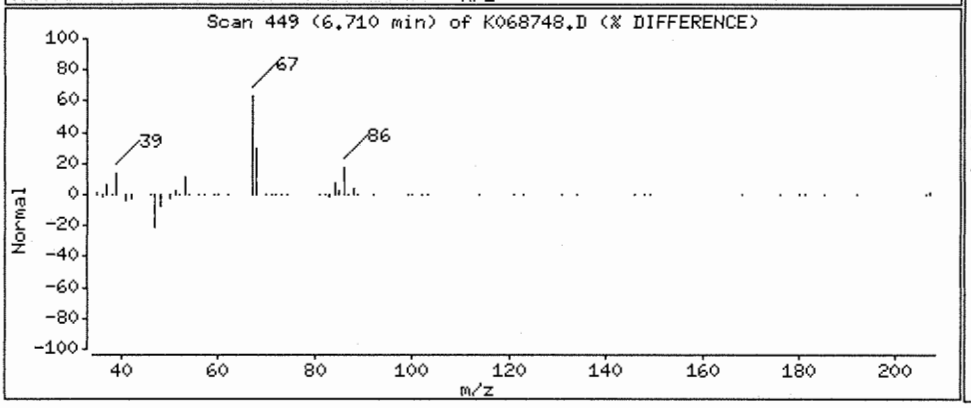
Column phase: DB-624 Column diameter: 0.32

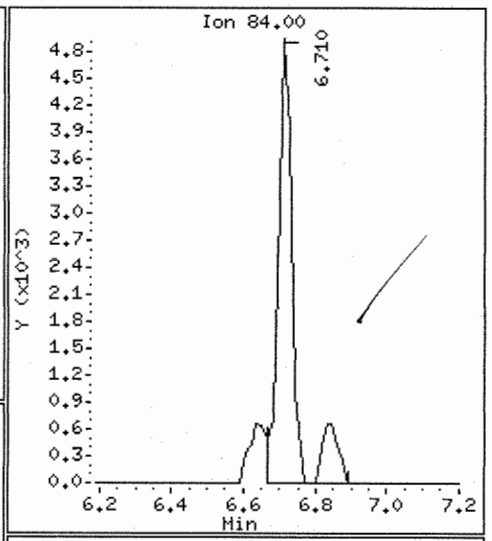
22 Methylene chloride Concentration: 0.686 ug/L

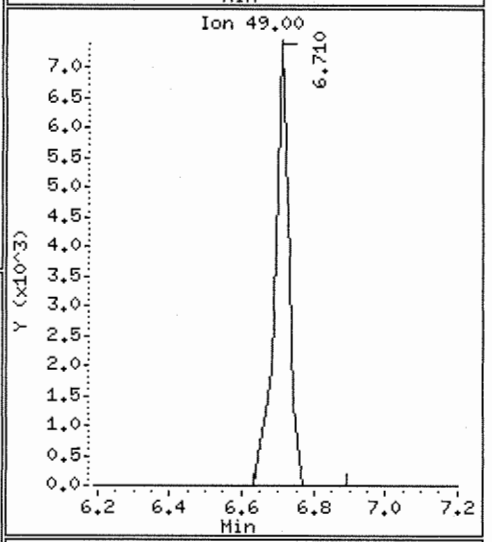


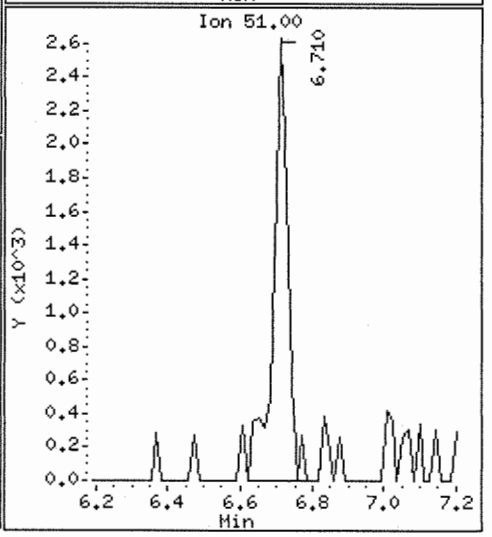












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

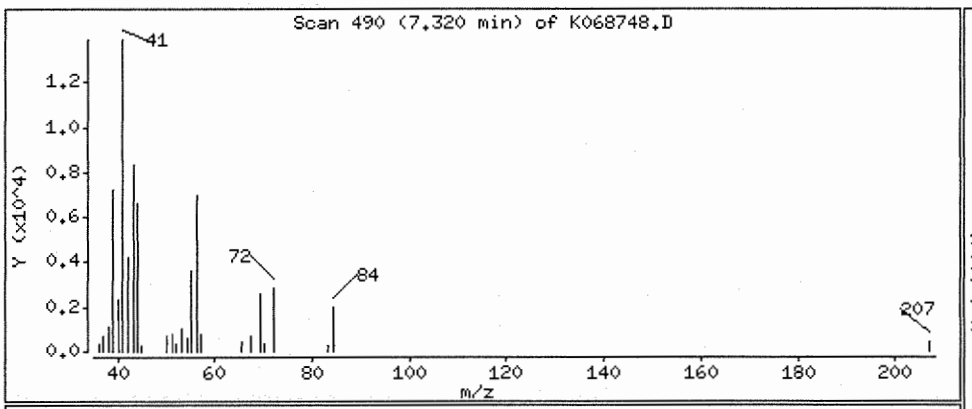
Operator: X

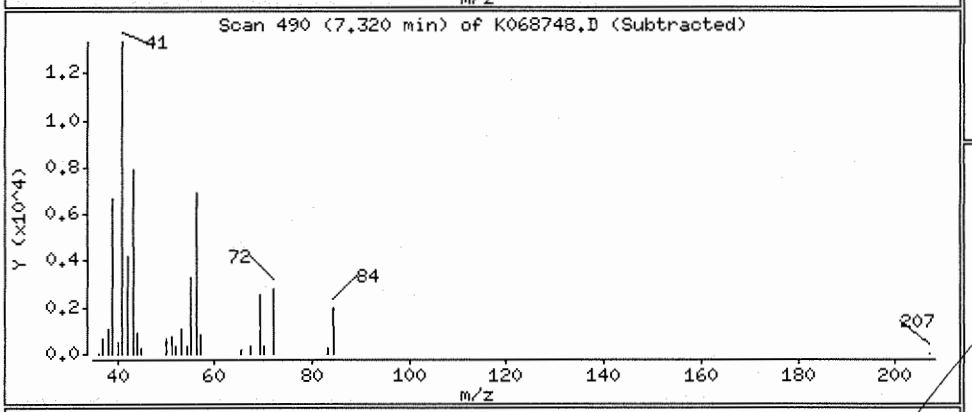
Column phase: DB-624

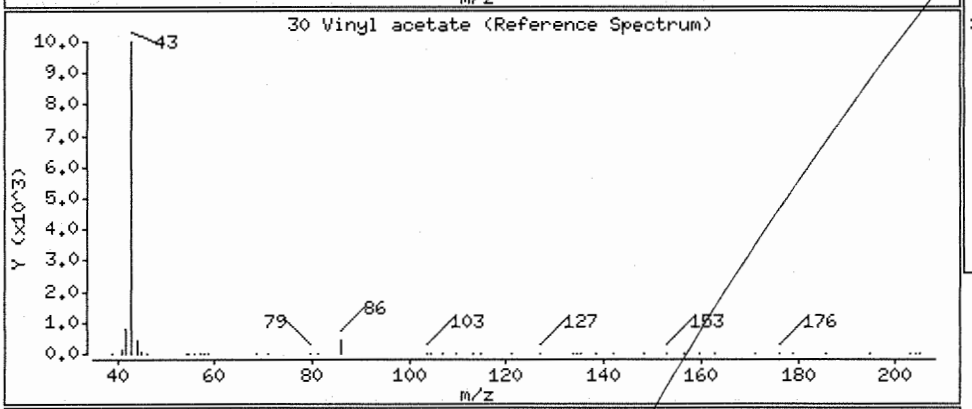
Column diameter: 0.32

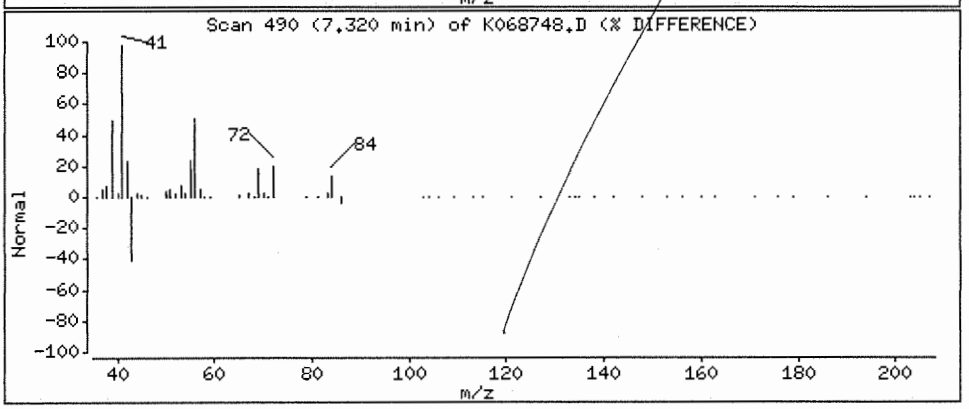
30 Vinyl acetate

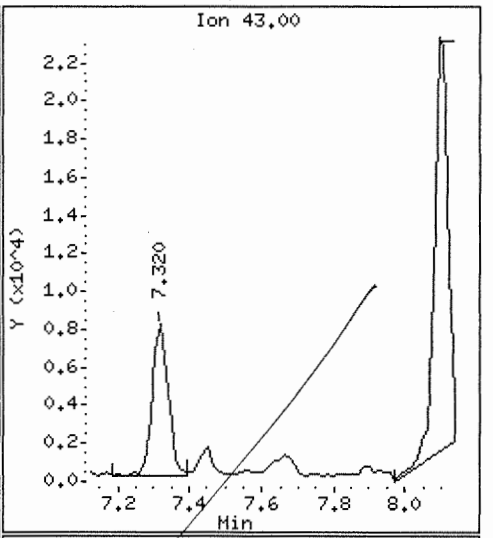
Concentration: 0.366 ug/L

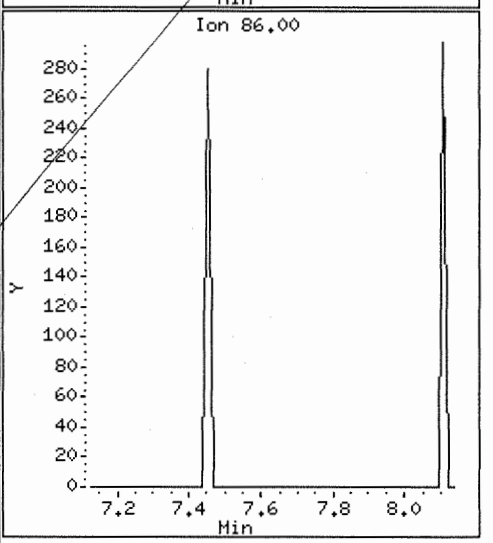












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

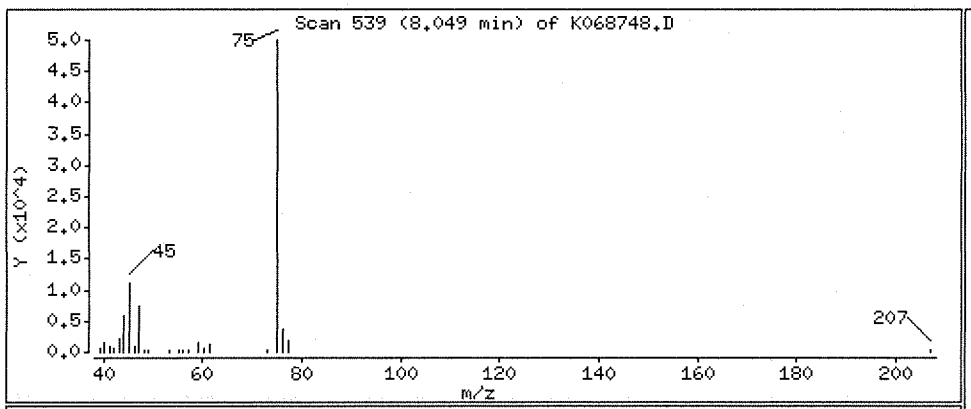
Operator: X

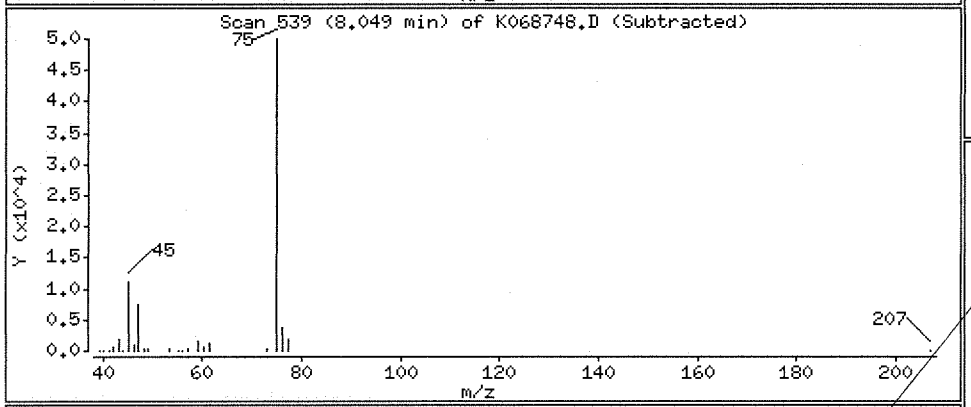
Column phase: DB-624

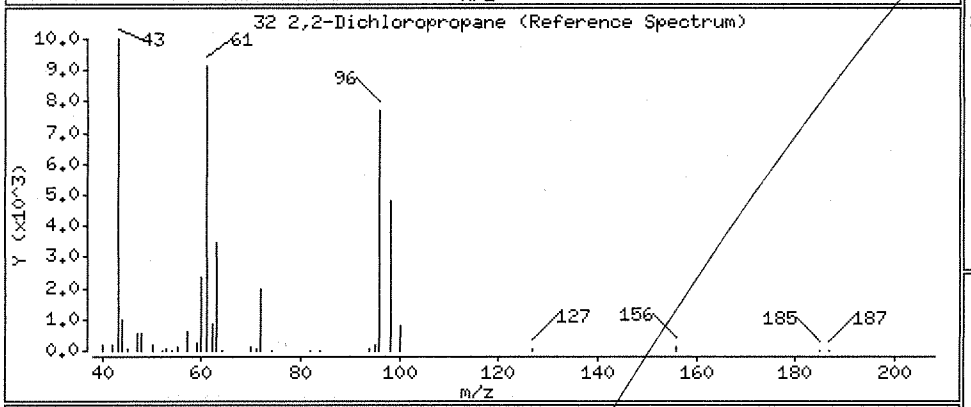
Column diameter: 0.32

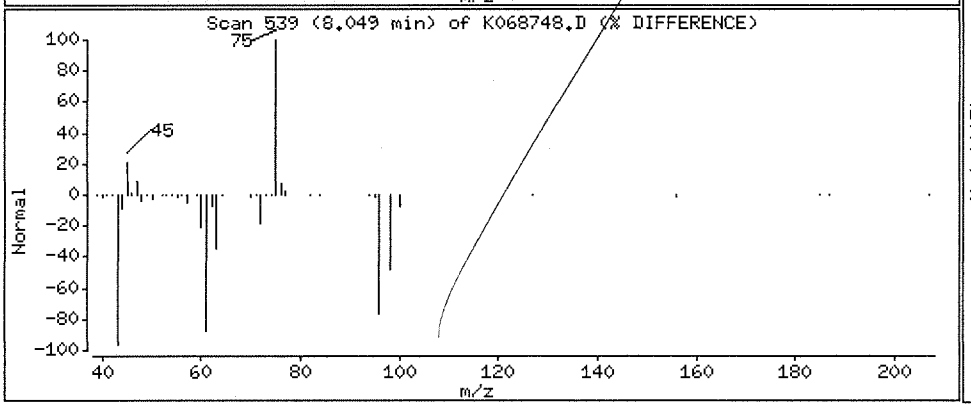
32 2,2-Dichloropropane

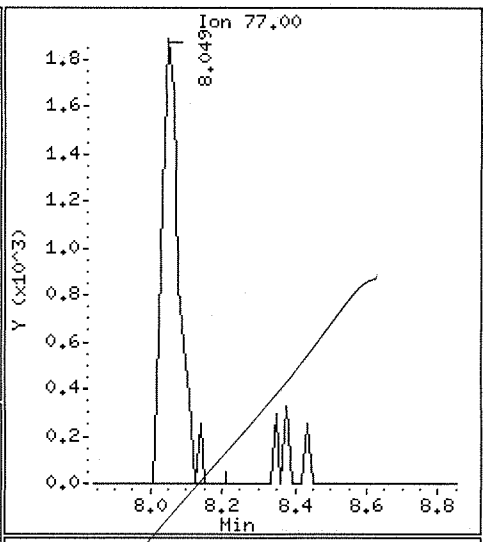
Concentration: 0.219 ug/L

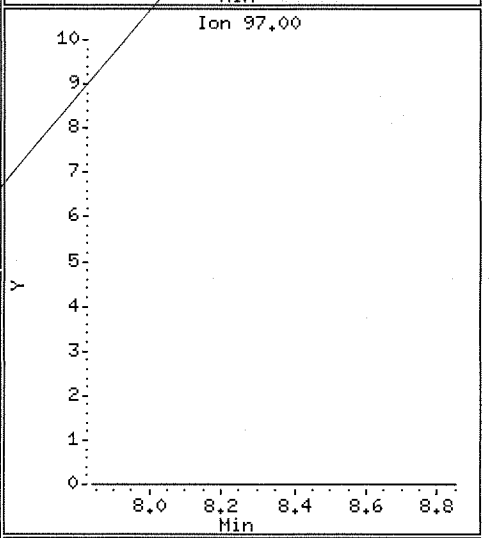


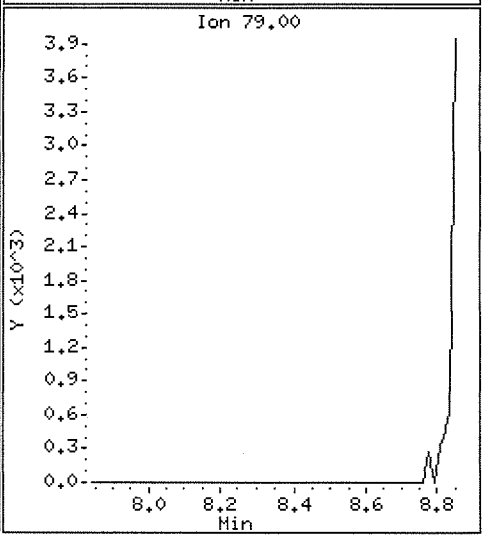












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

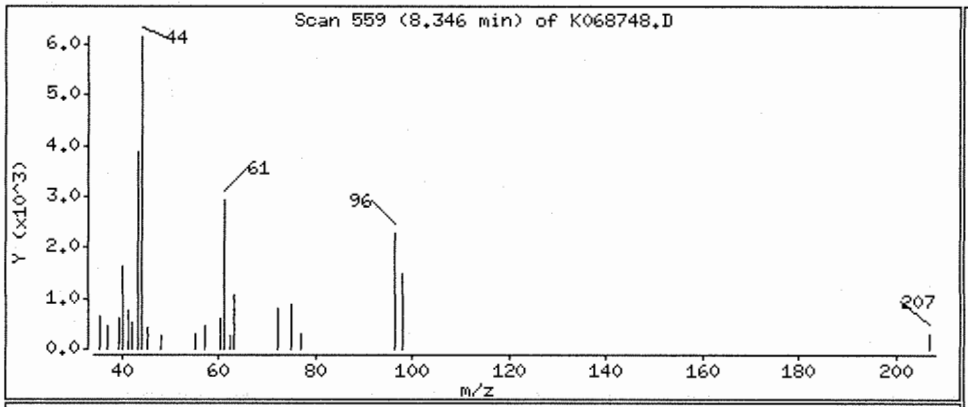
Operator: X

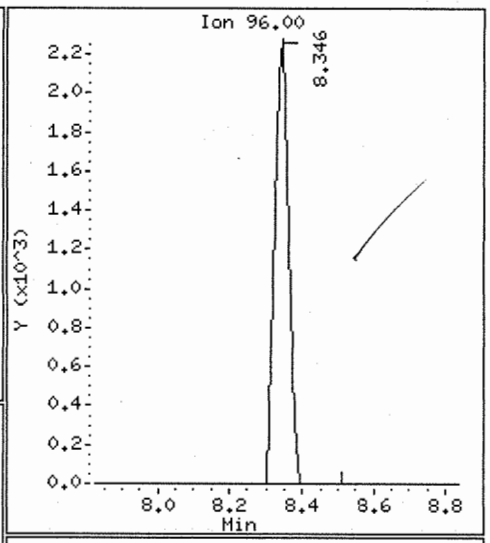
Column phase: DB-624

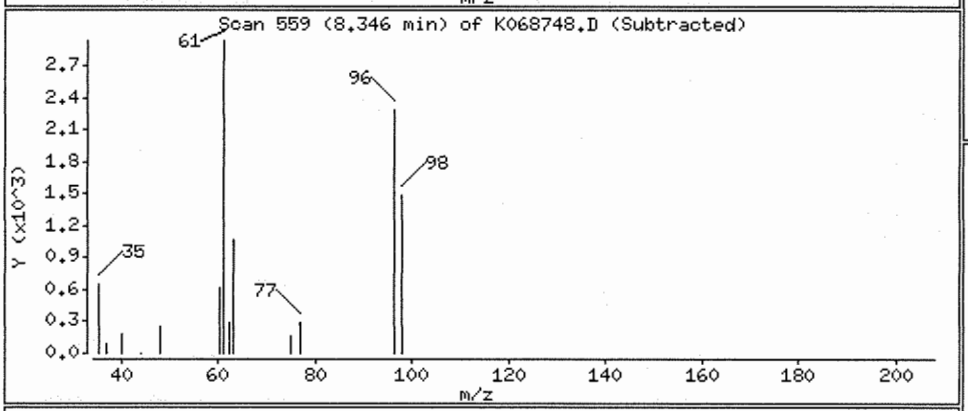
Column diameter: 0.32

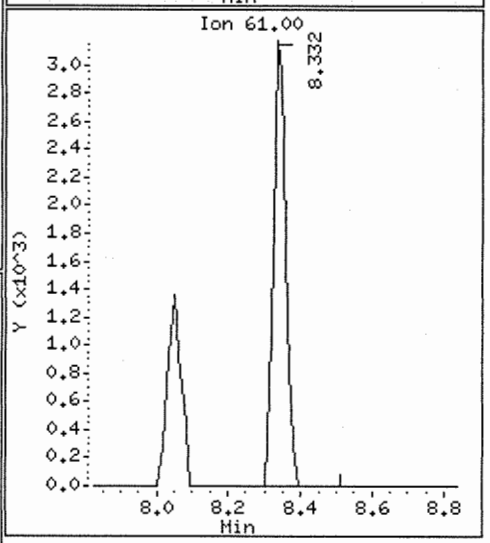
33 cis-1,2-Dichloroethene

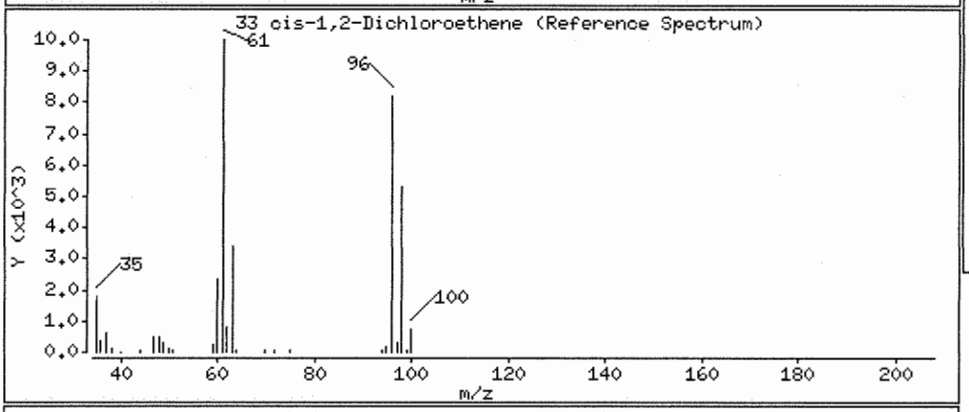
Concentration: 0.288 ug/L

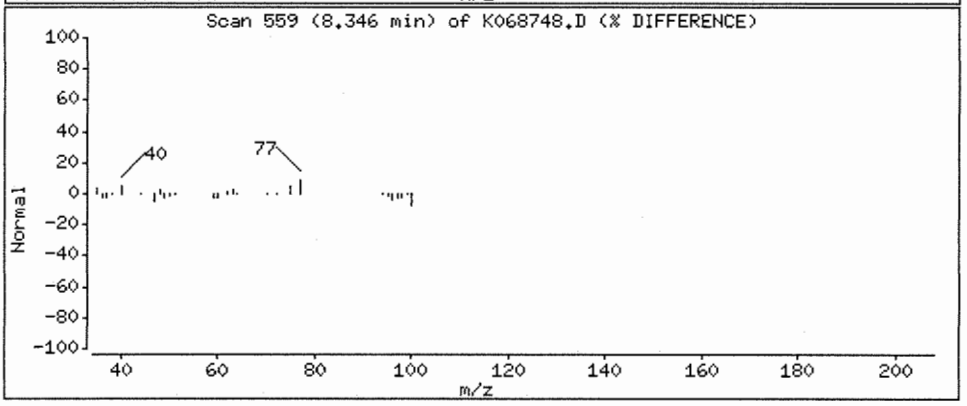












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

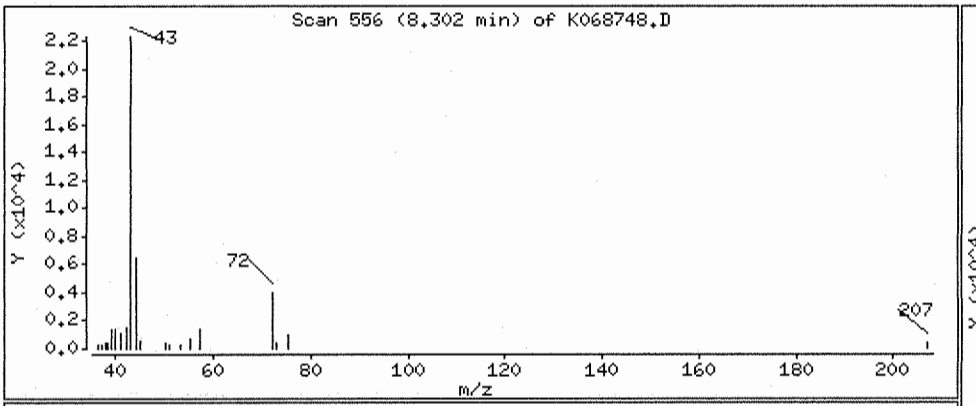
Operator: X

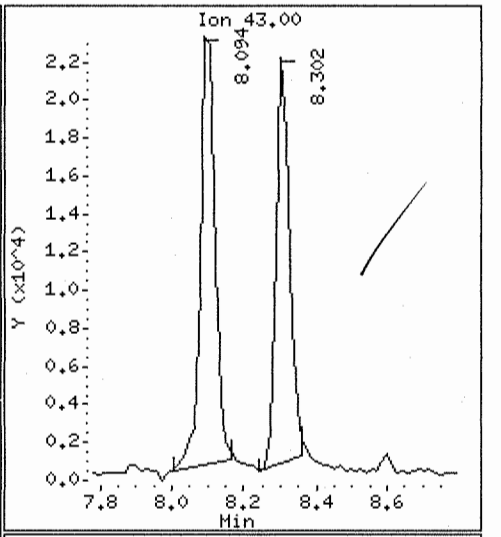
Column phase: DB-624

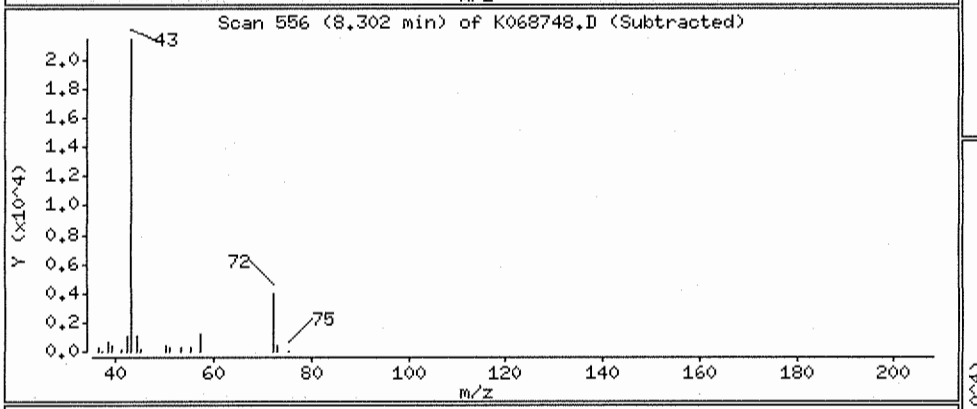
Column diameter: 0.32

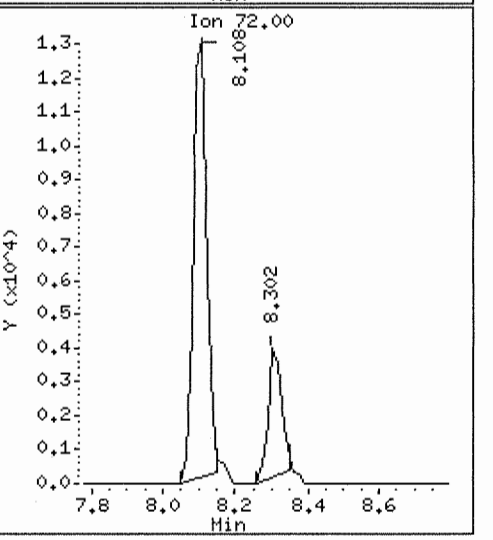
35 2-Butanone

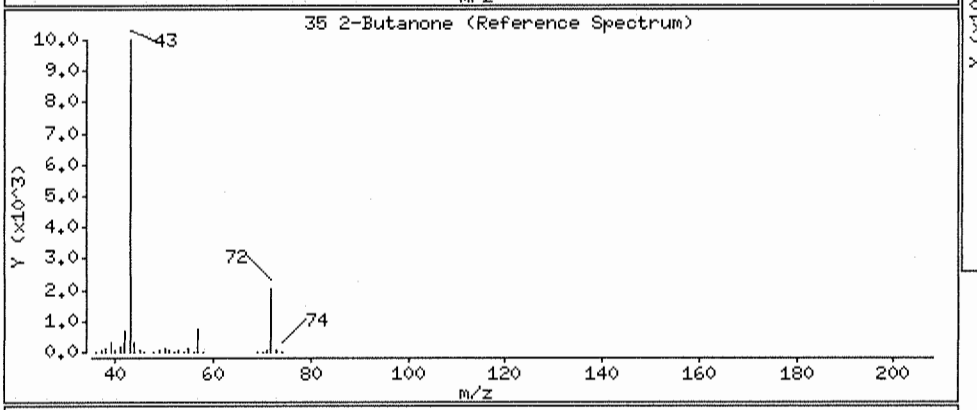
Concentration: 9.00 ug/L

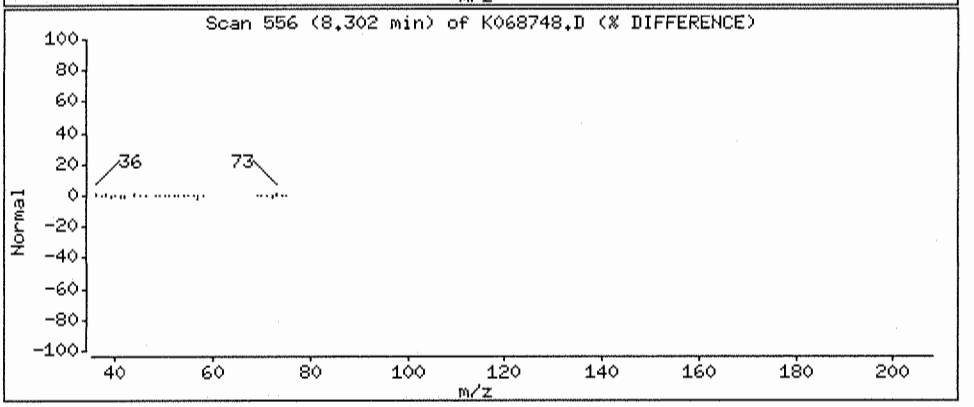












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

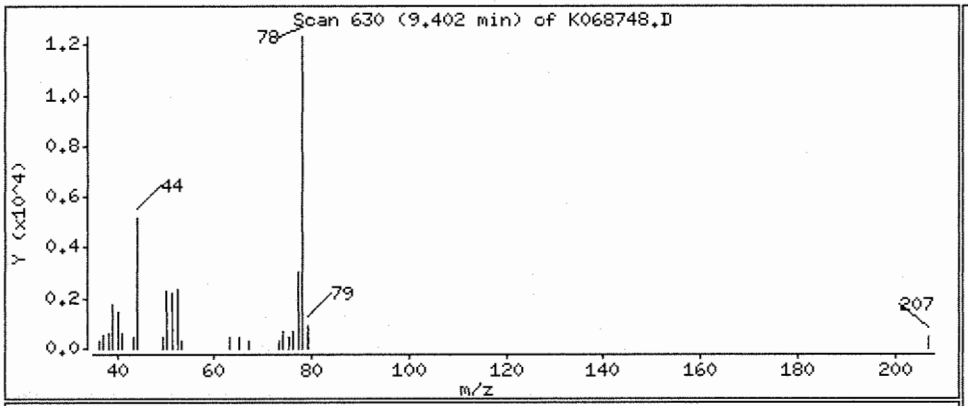
Operator: X

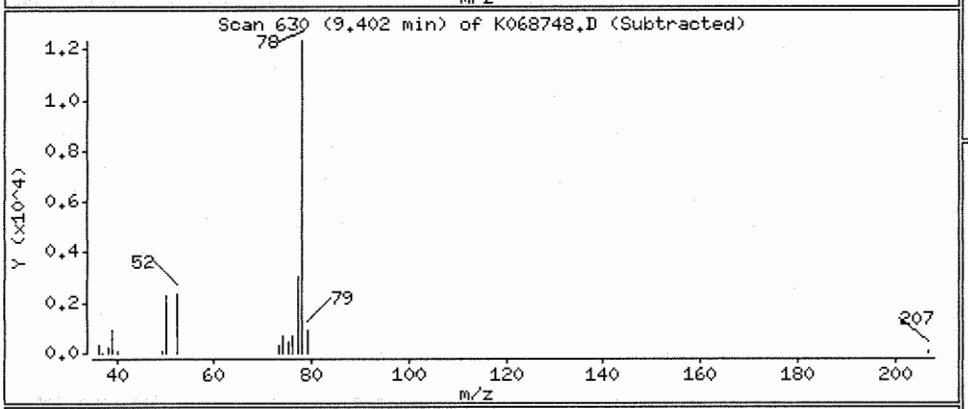
Column phase: DB-624

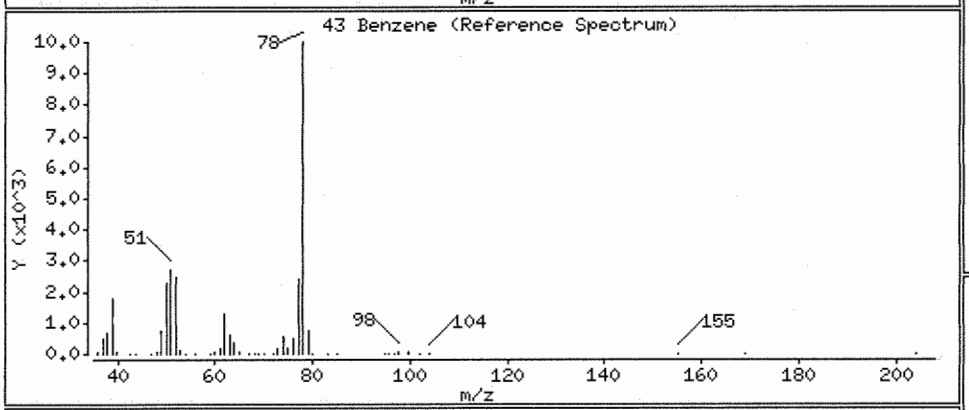
Column diameter: 0.32

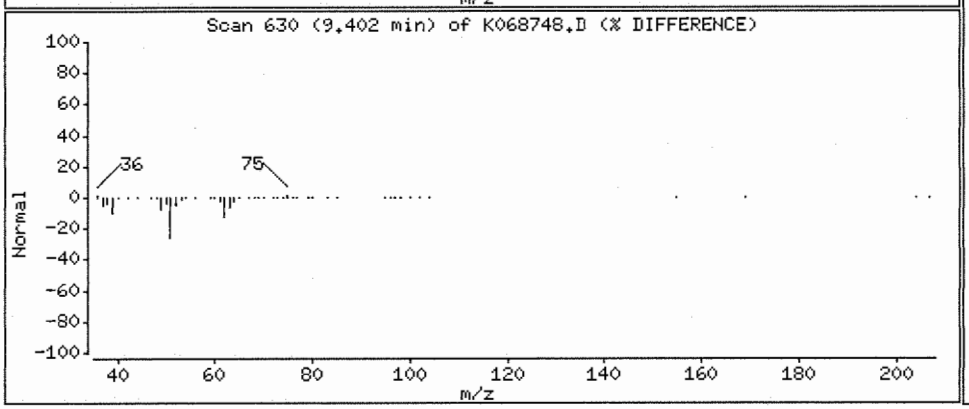
43 Benzene

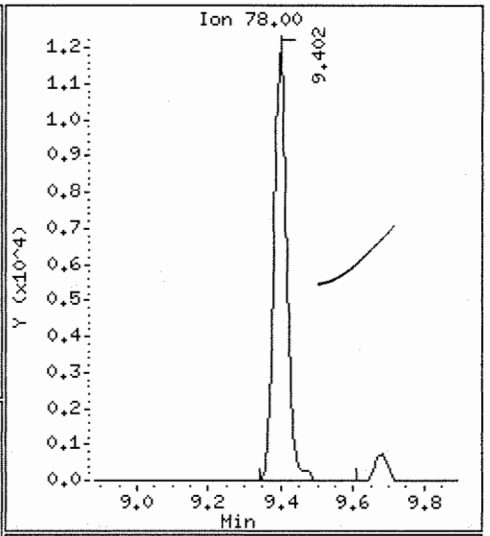
Concentration: 0.414 ug/L

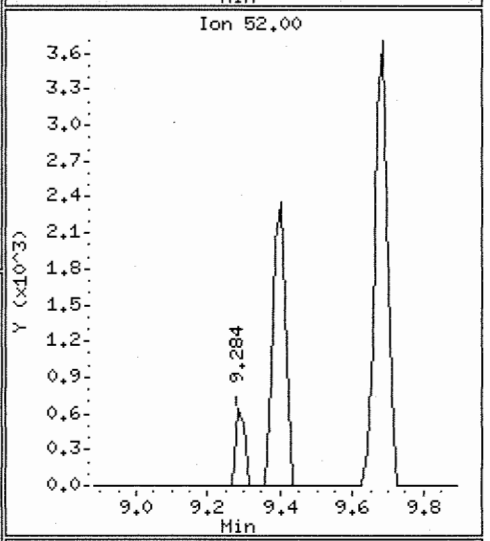


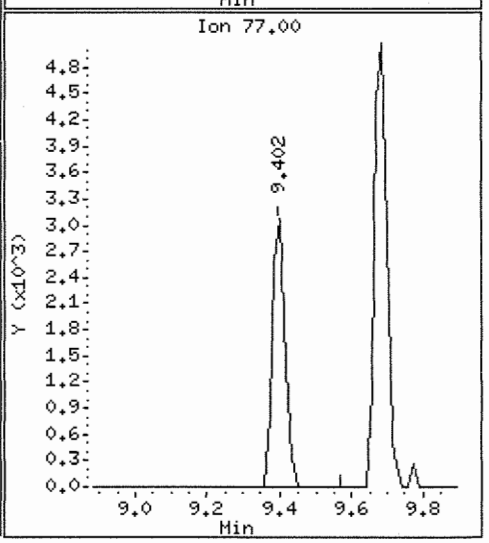












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

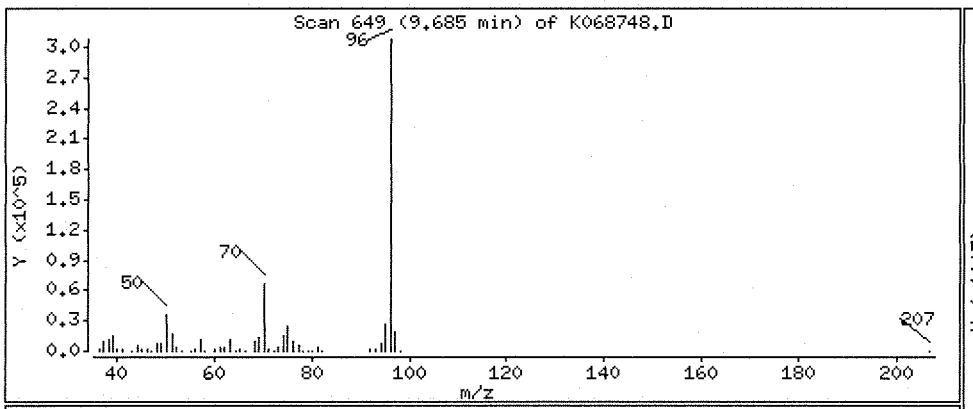
Operator: X

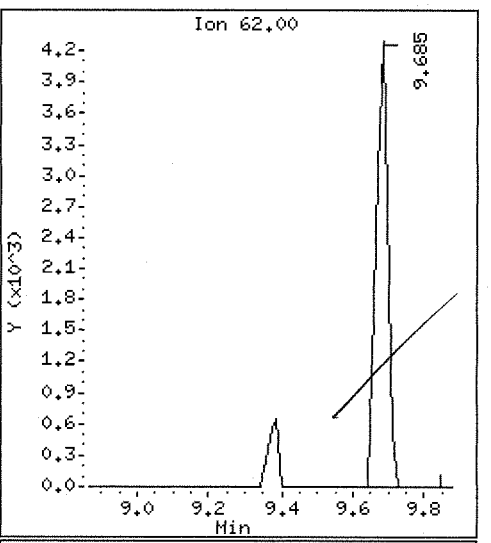
Column phase: DB-624

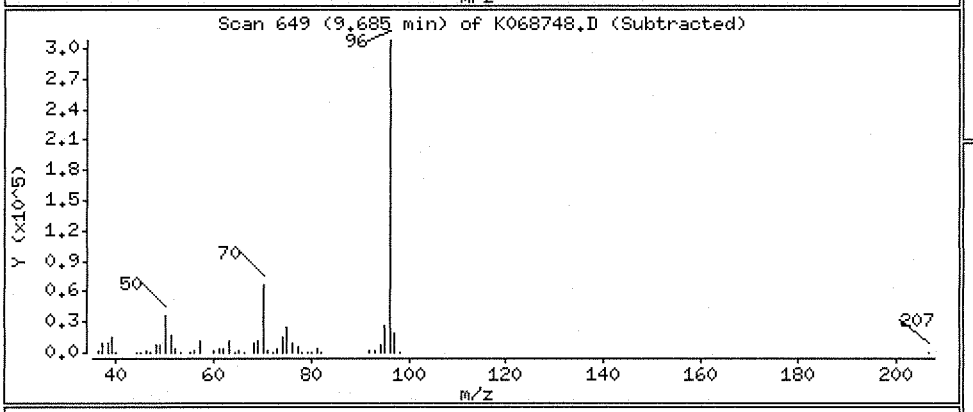
Column diameter: 0.32

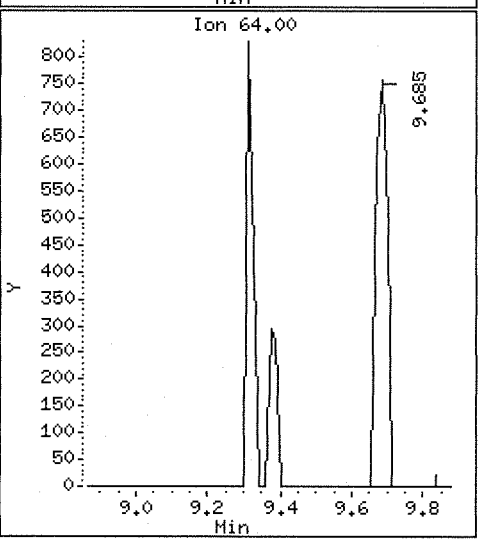
44 1,2-Dichloroethane

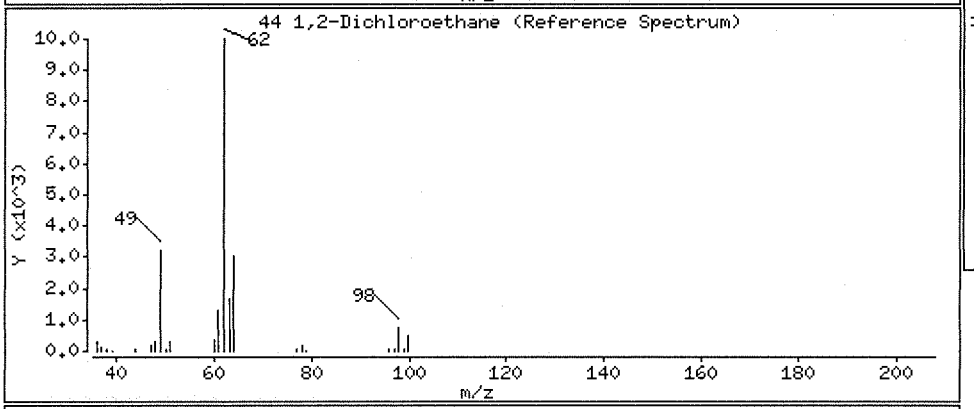
Concentration: 0.365 ug/L

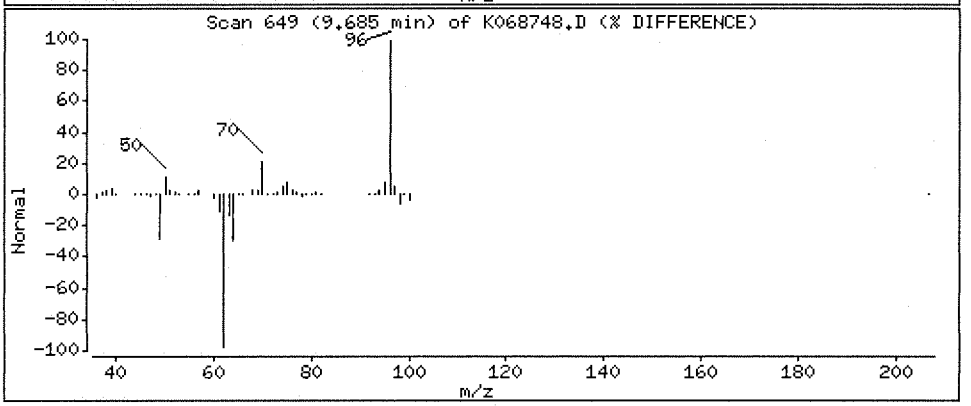












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

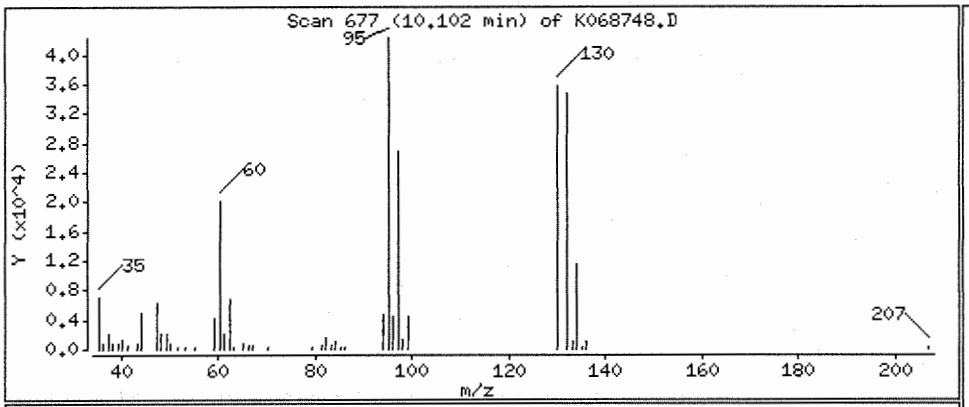
Operator: X

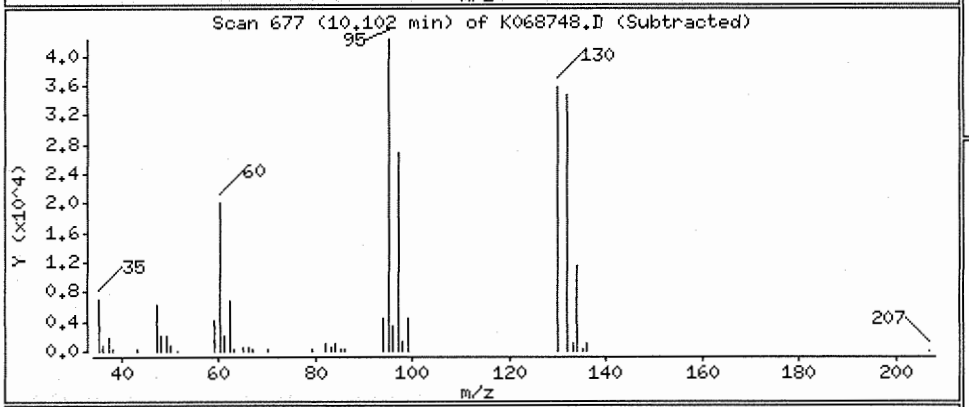
Column phase: DB-624

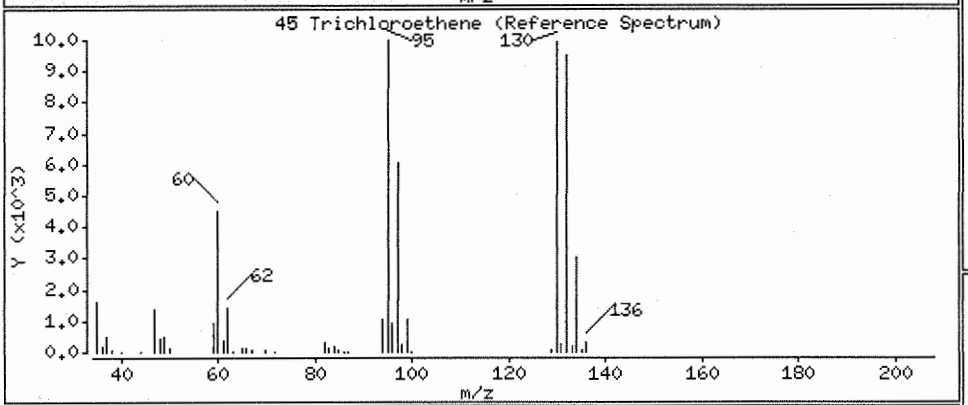
Column diameter: 0.32

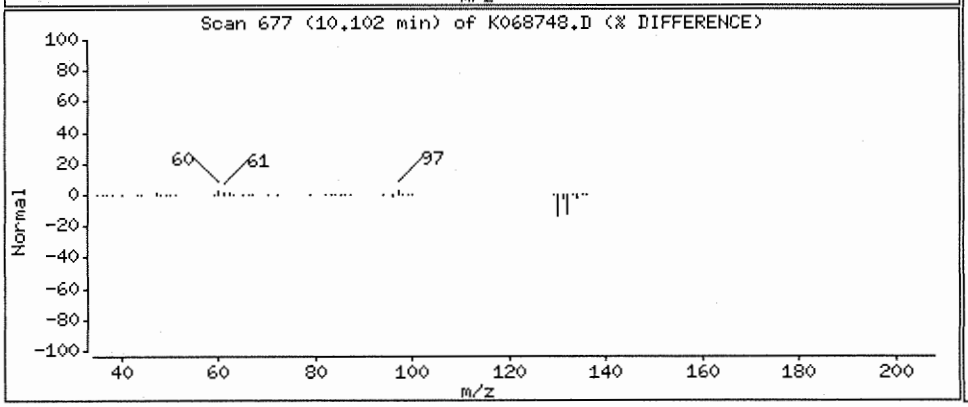
45 Trichloroethene

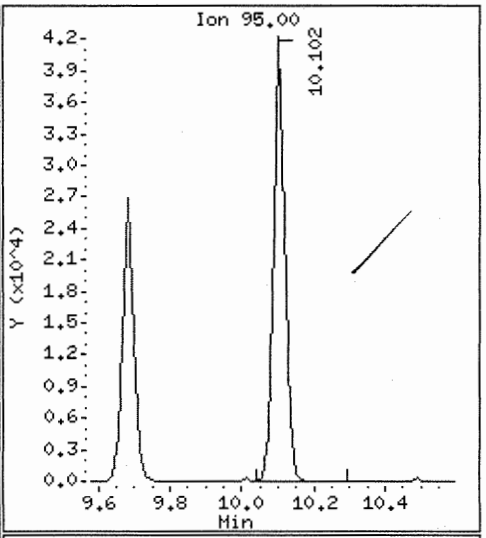
Concentration: 4.29 ug/L

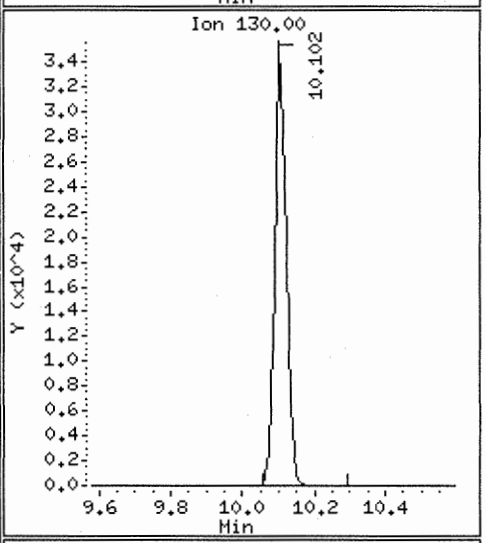


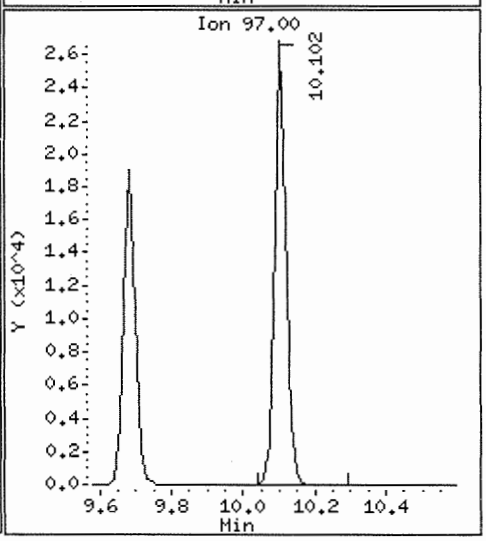












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

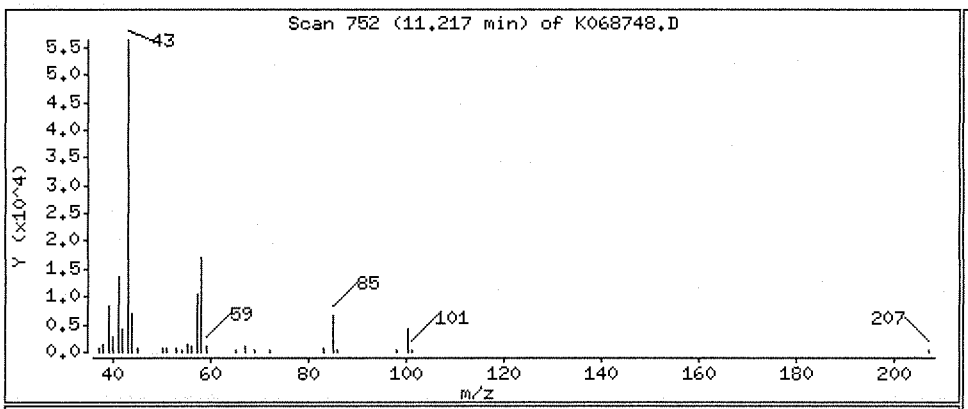
Operator: X

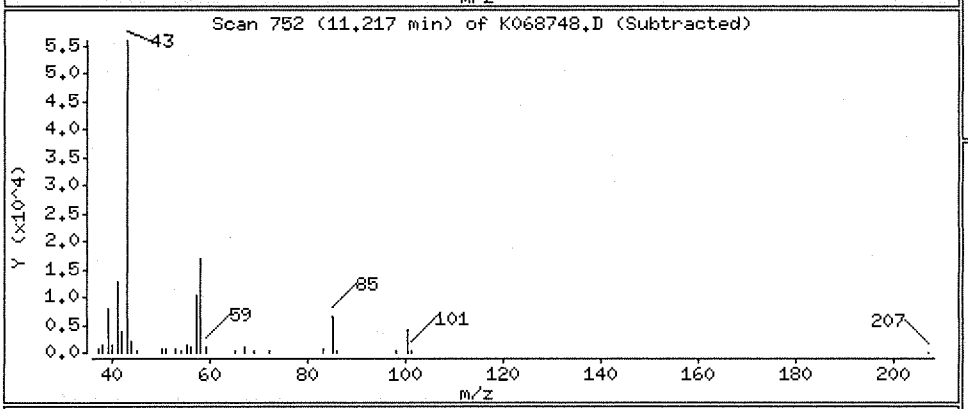
Column phase: DB-624

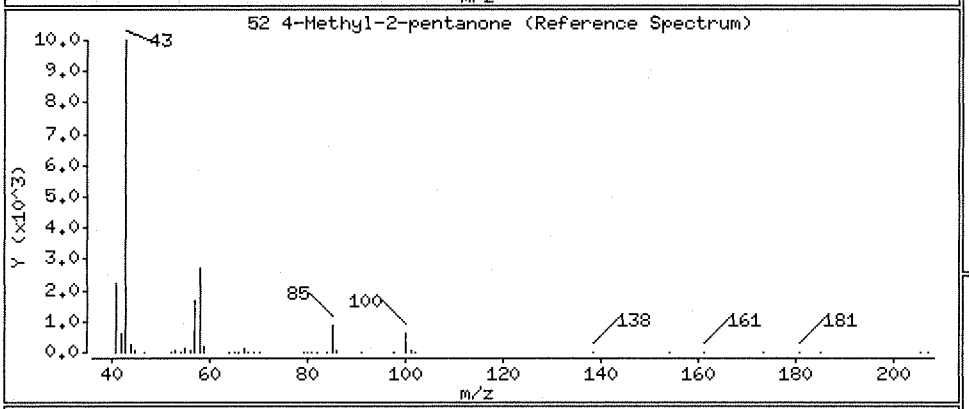
Column diameter: 0.32

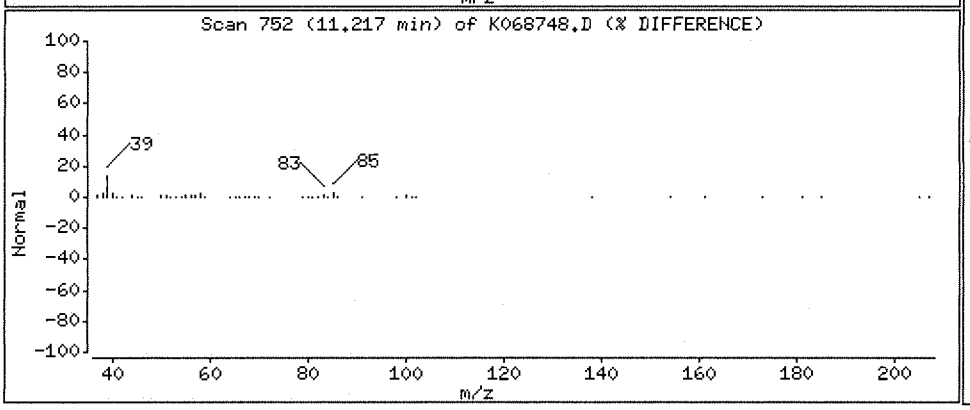
52 4-Methyl-2-pentanone

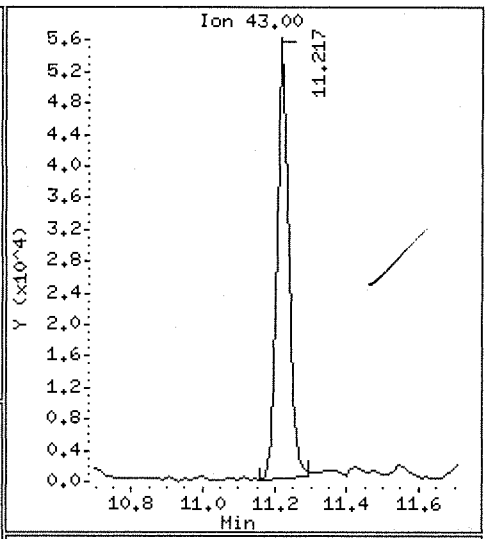
Concentration: 8.69 ug/L

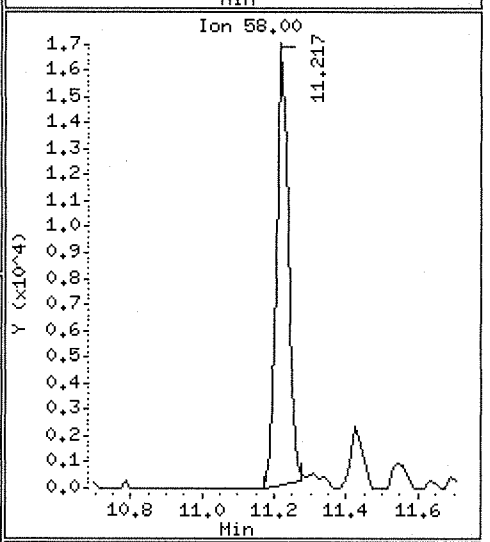


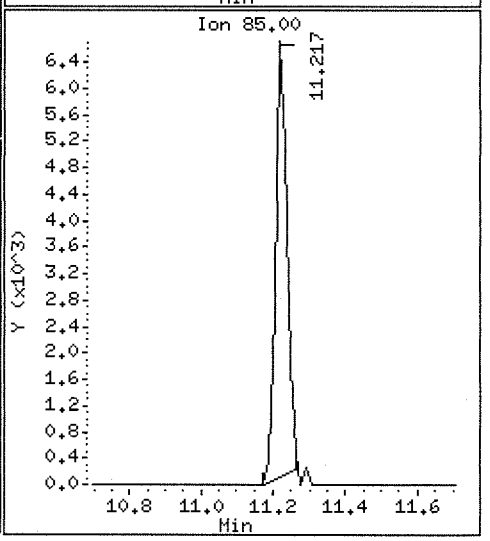












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

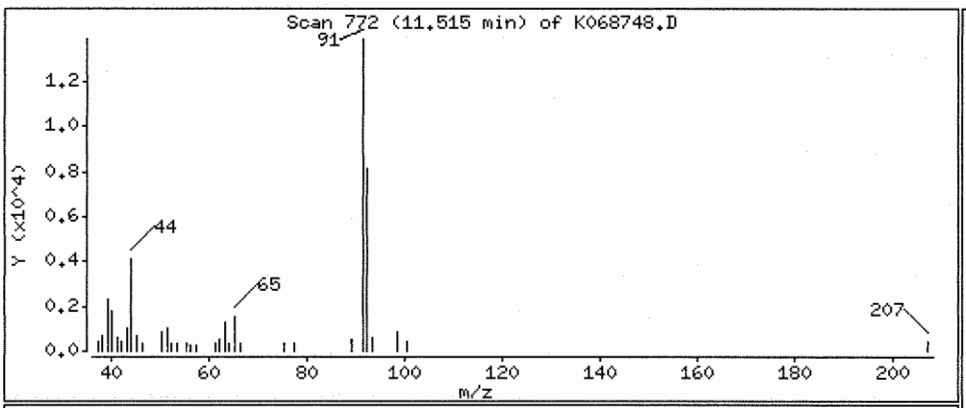
Operator: X

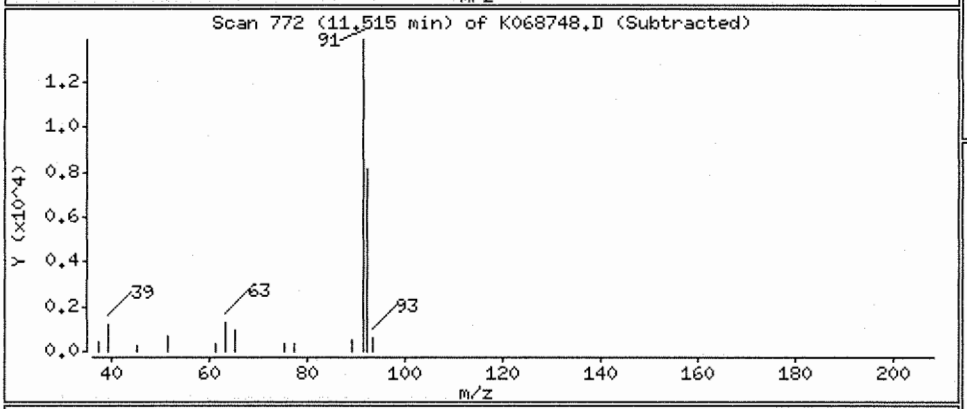
Column phase: DB-624

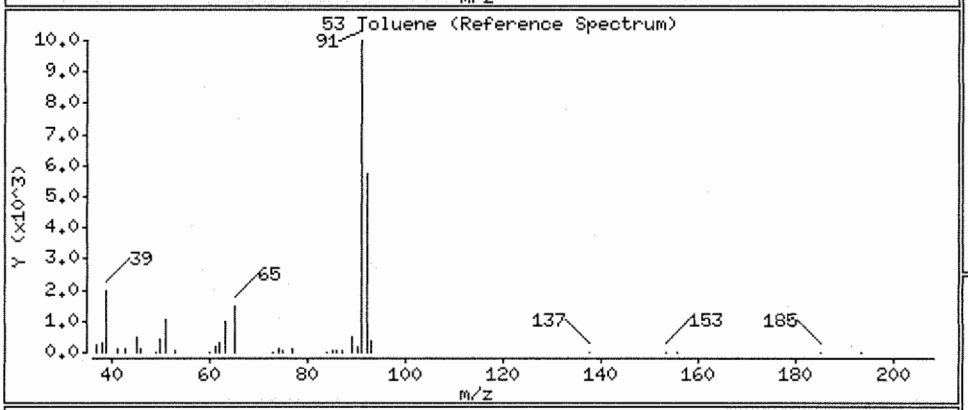
Column diameter: 0.32

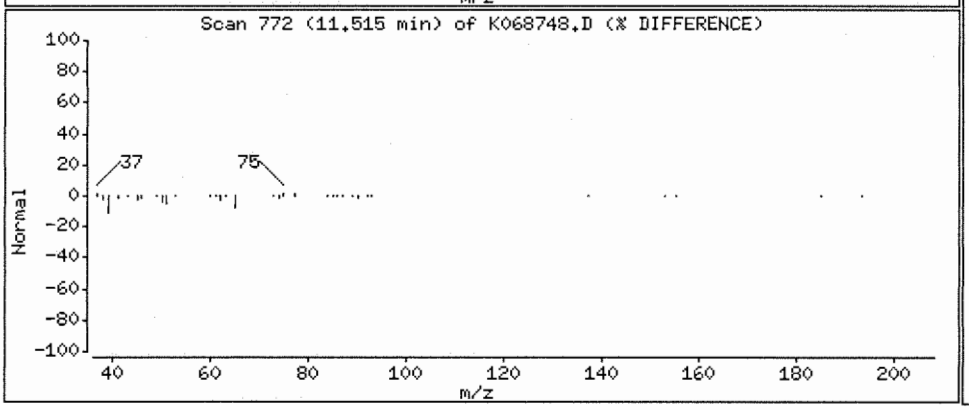
53 Toluene

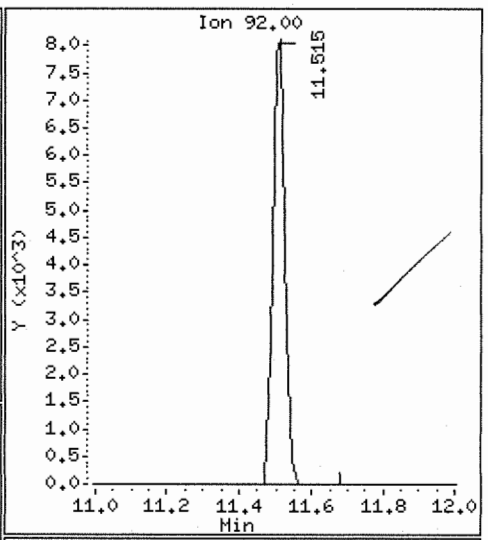
Concentration: 0.437 ug/L

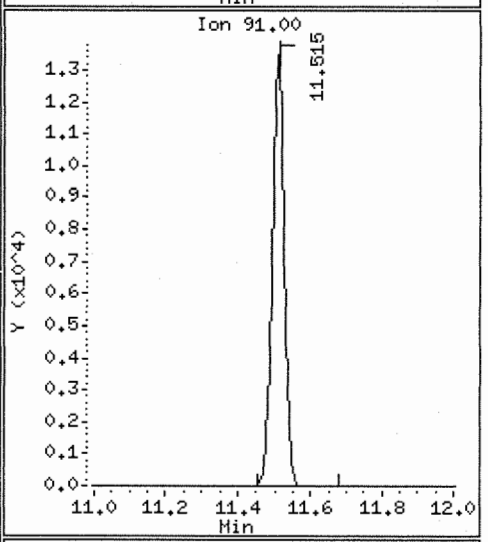


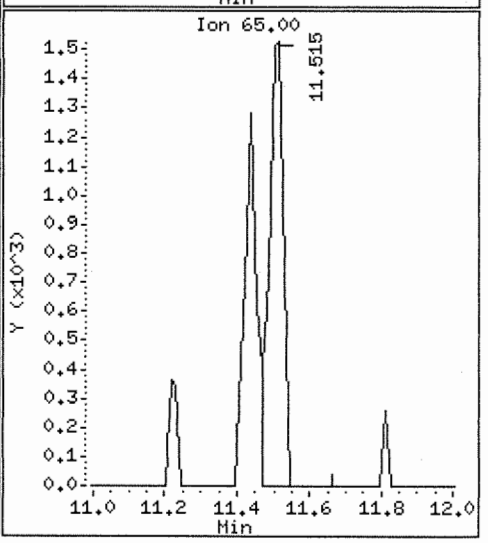












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

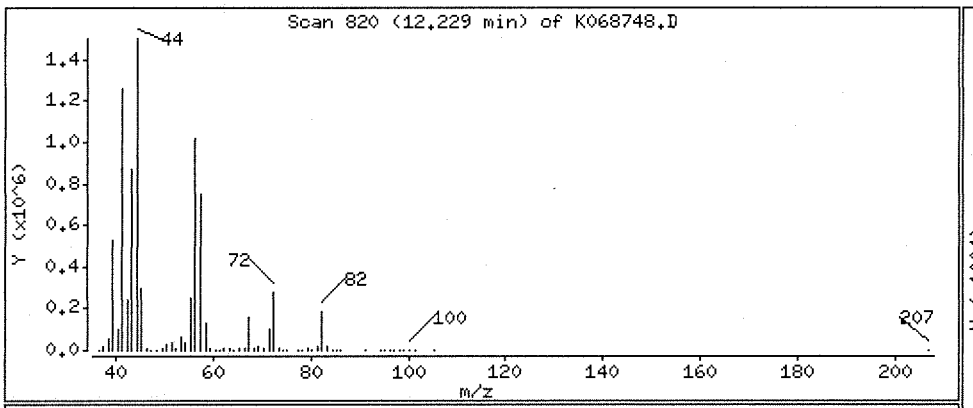
Client ID: T-54-GW-65 Instrument: MSK.i

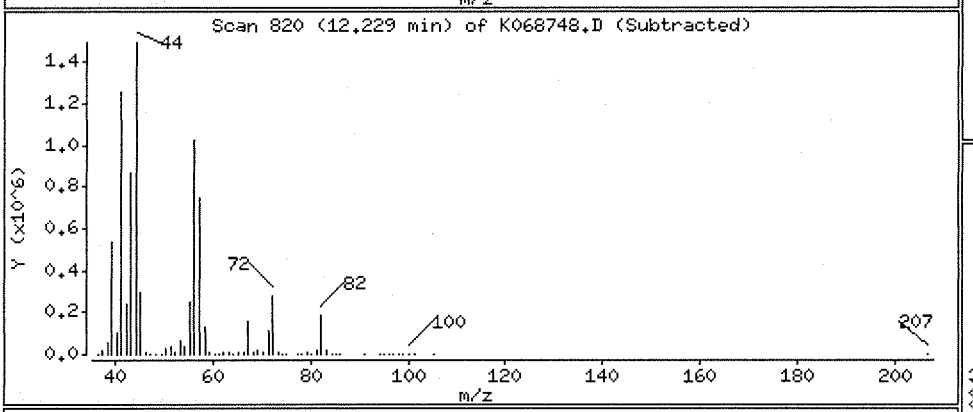
Sample Info: D0602139-004

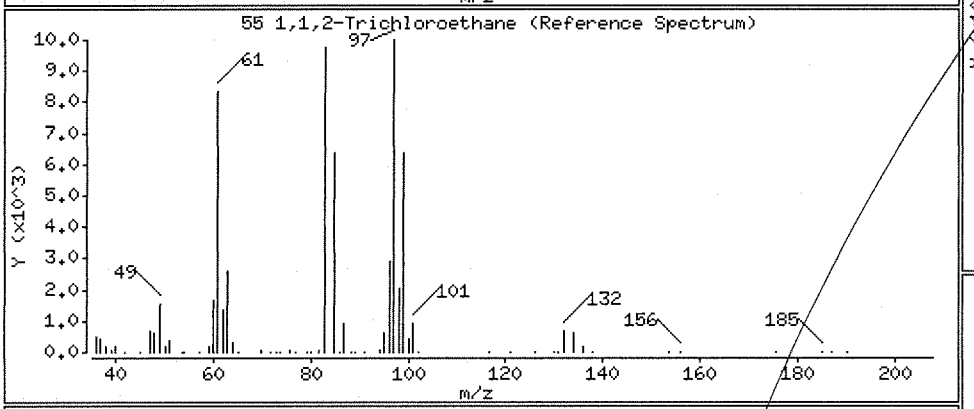
Purge Volume: 10.0 Operator: X

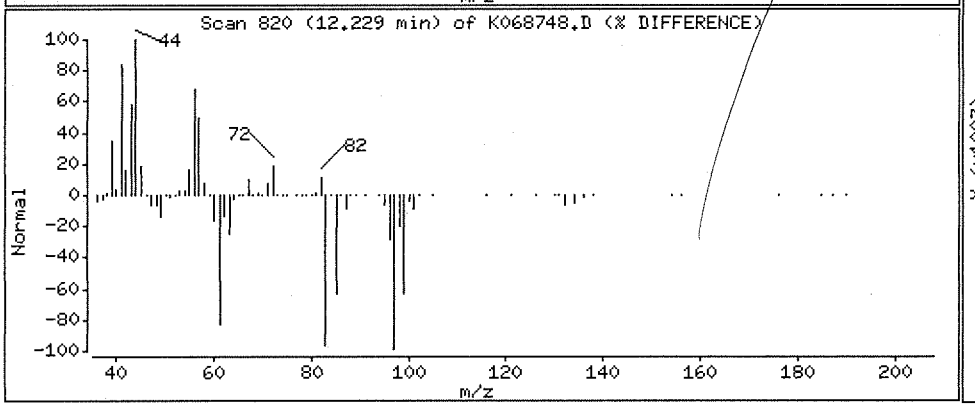
Column phase: DB-624 Column diameter: 0.32

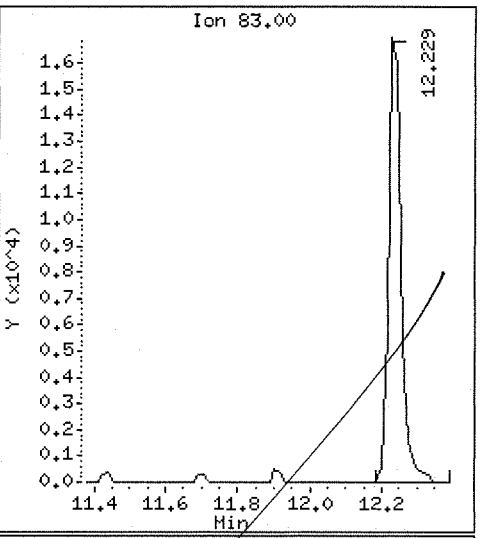
55 1,1,2-Trichloroethane Concentration: 3.26 ug/L

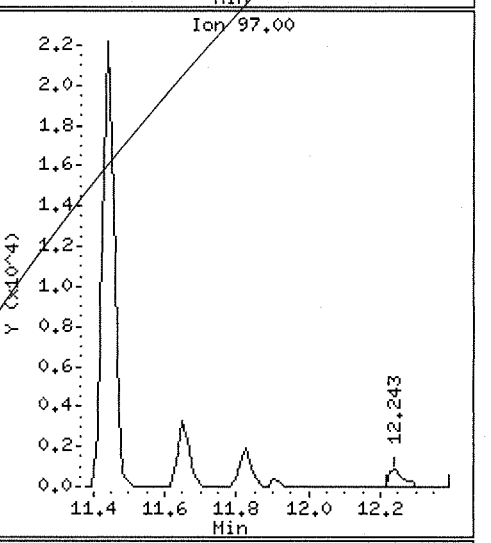


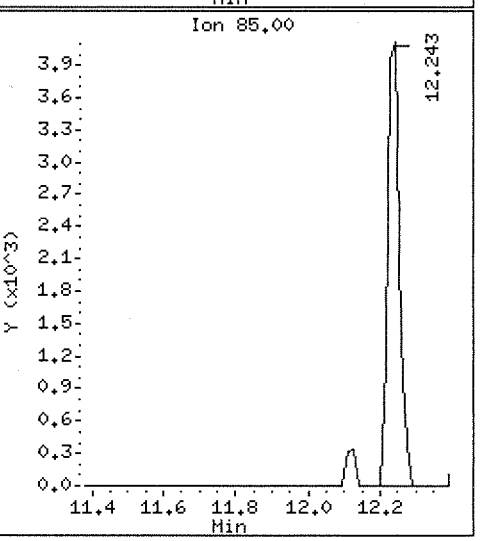












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

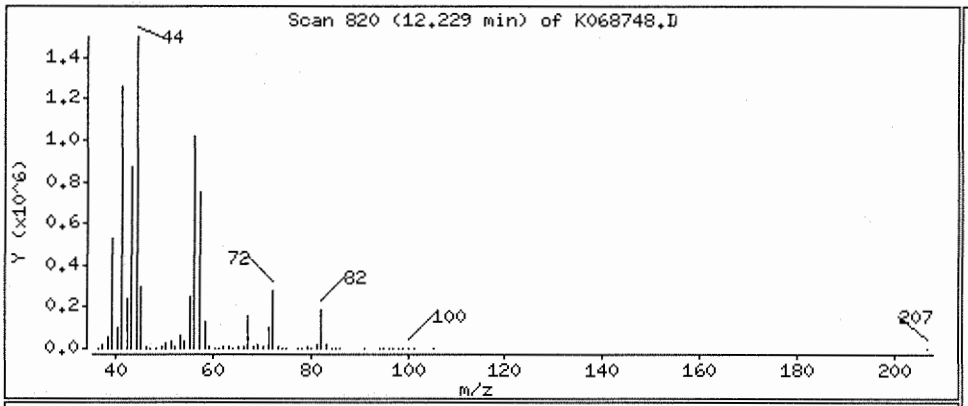
Operator: X

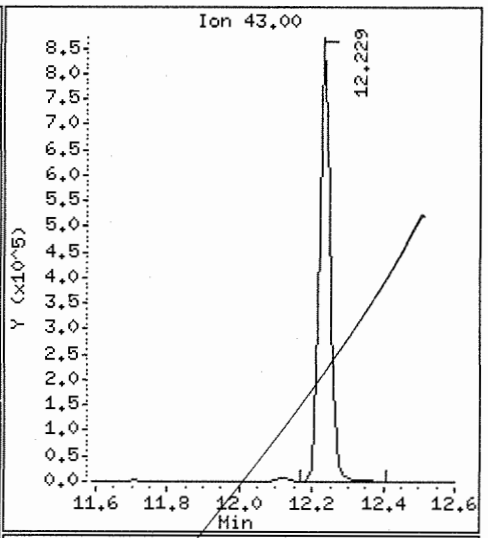
Column phase: DB-624

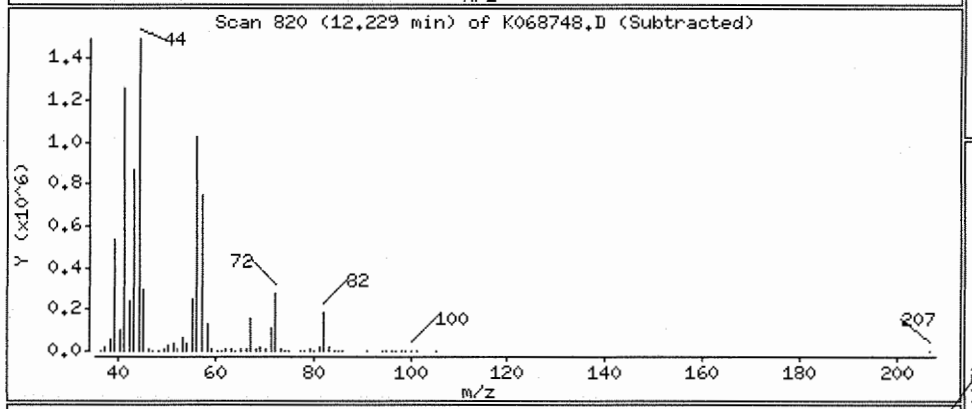
Column diameter: 0.32

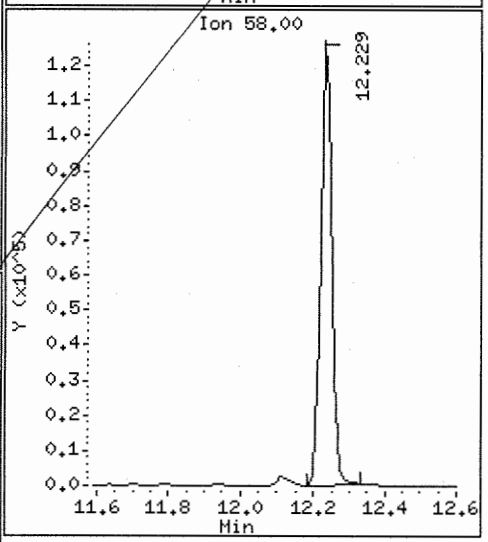
58 2-Hexanone

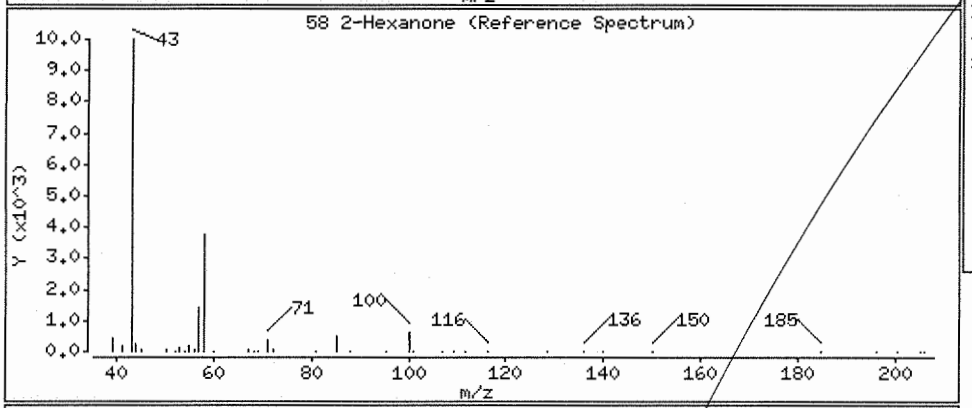
Concentration: 202 ug/L

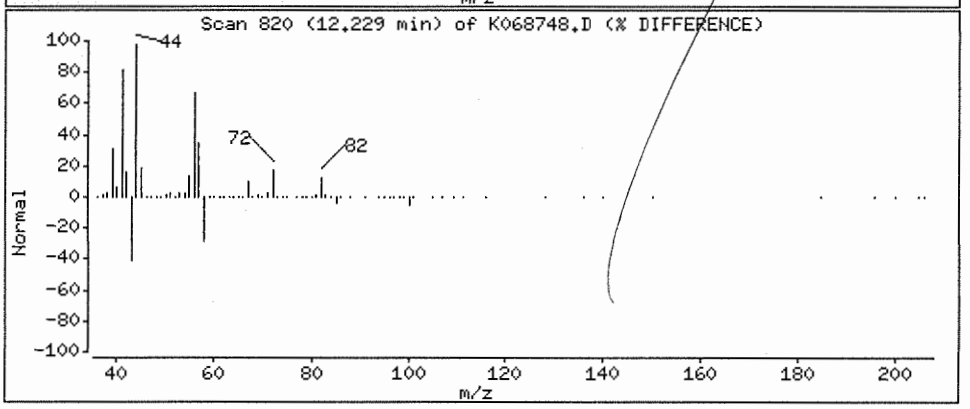












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

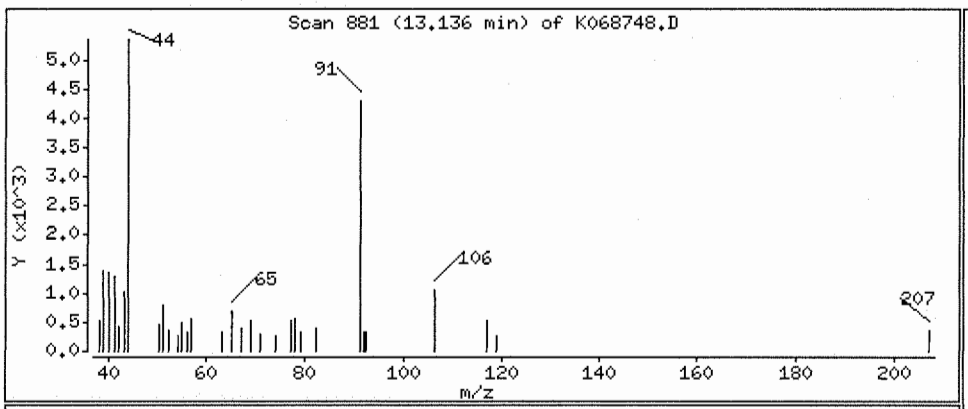
Operator: X

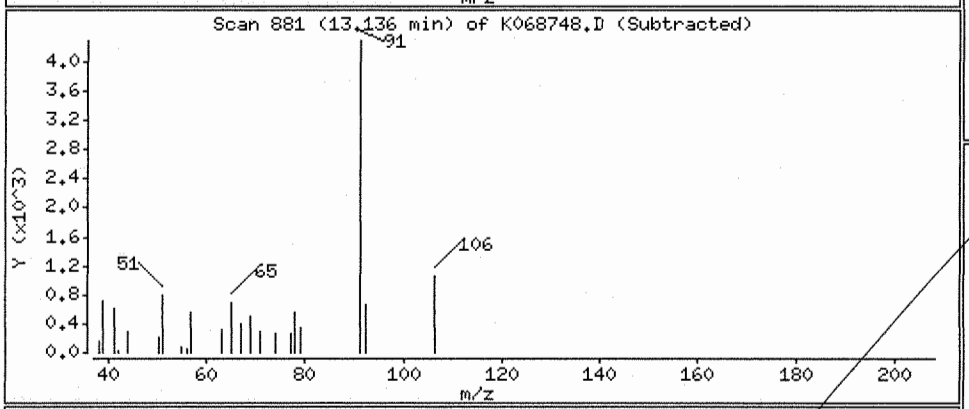
Column phase: DB-624

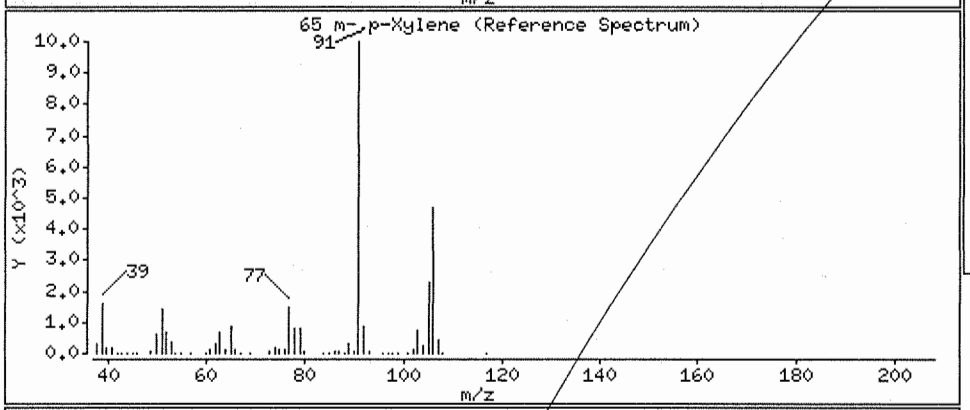
Column diameter: 0.32

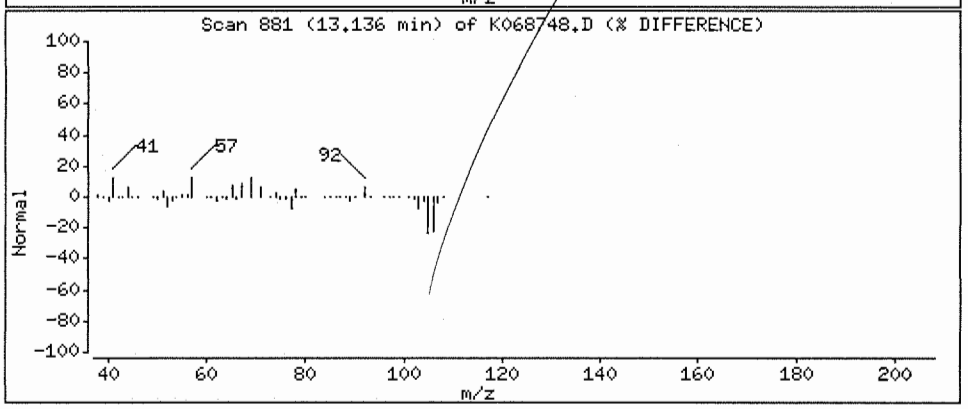
65 m-,p-Xylene

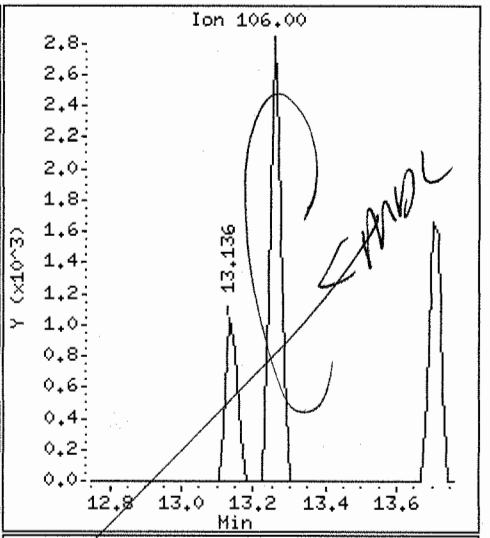
Concentration: 0.296 ug/L

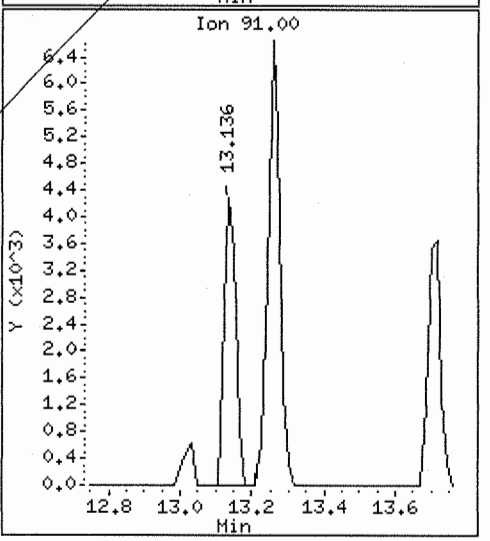












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

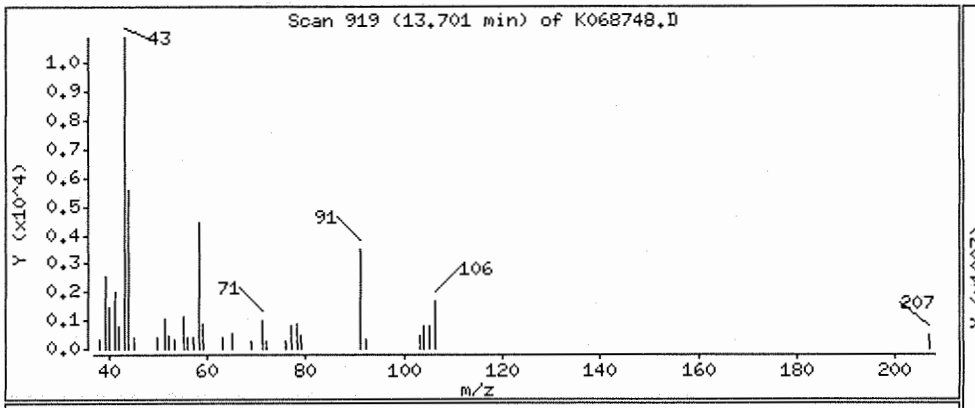
Operator: X

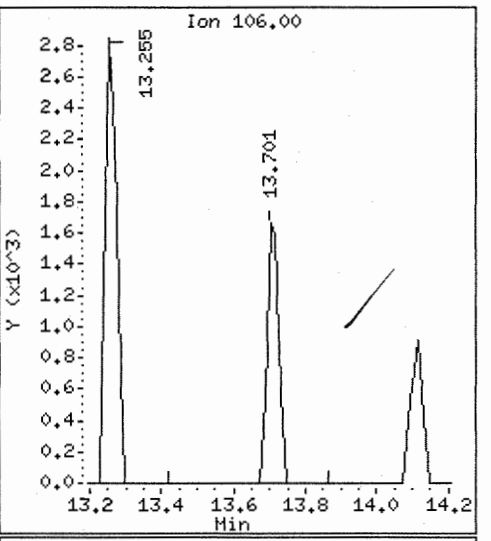
Column phase: DB-624

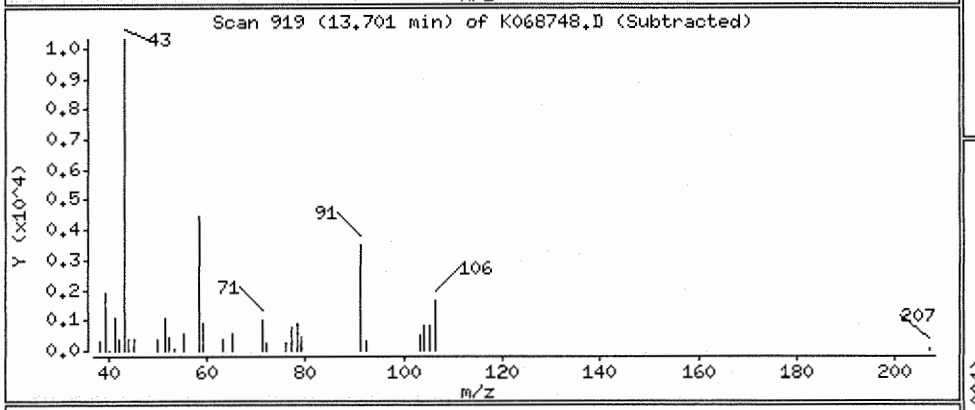
Column diameter: 0.32

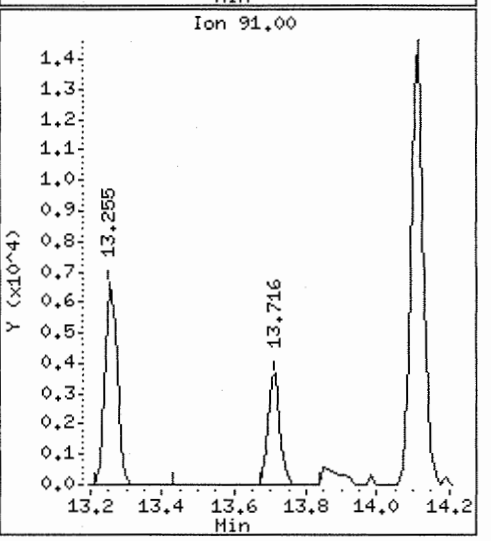
66 o-Xylene

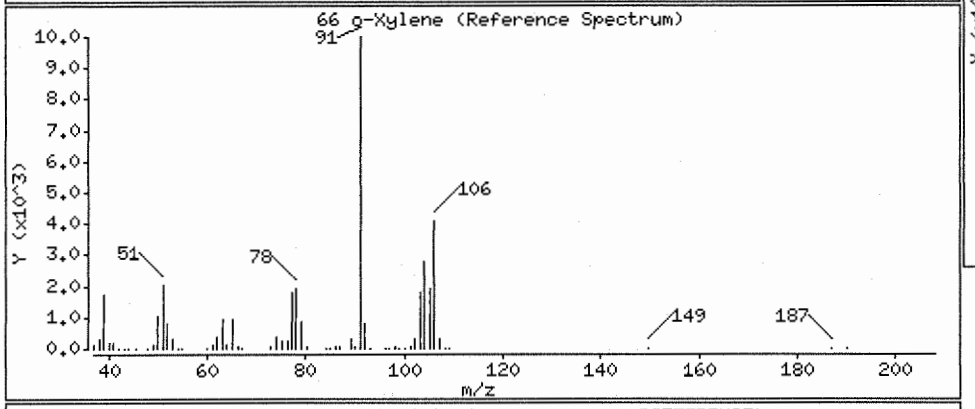
Concentration: 0.140 ug/L

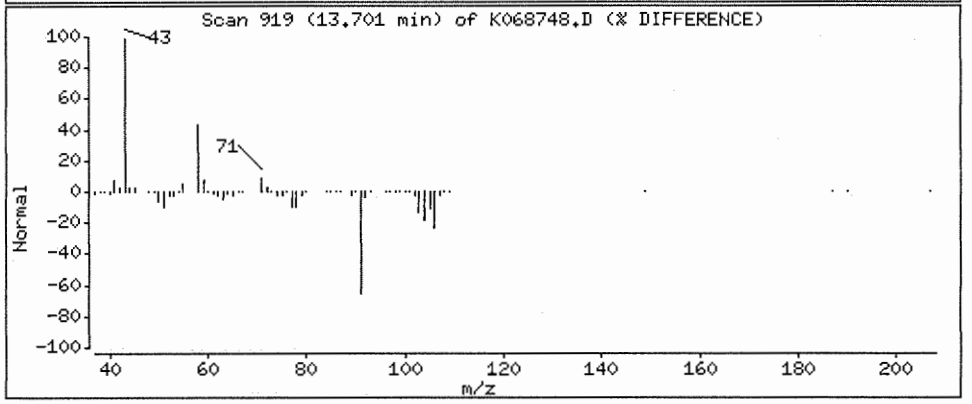












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

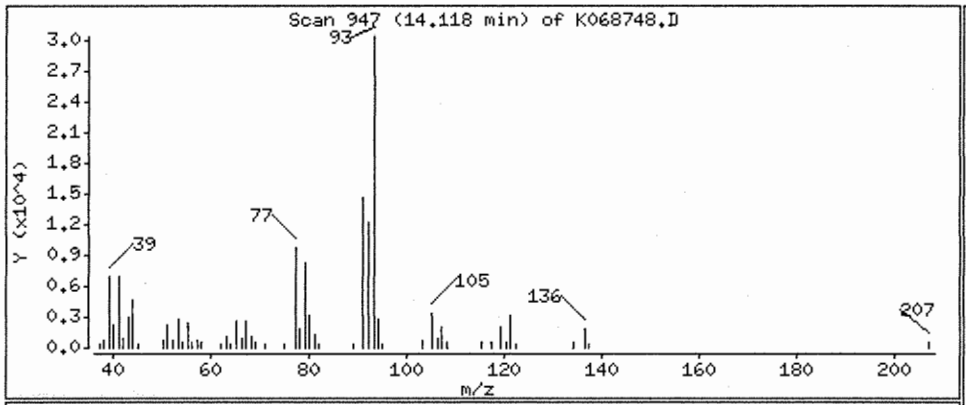
Operator: X

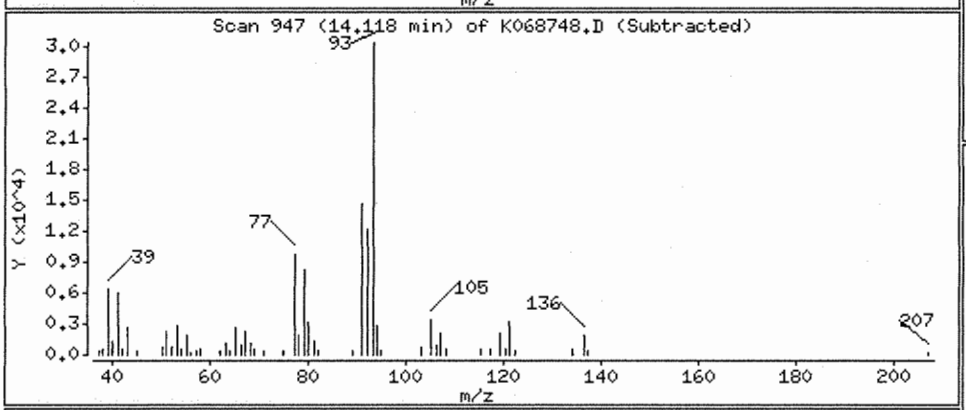
Column phase: DB-624

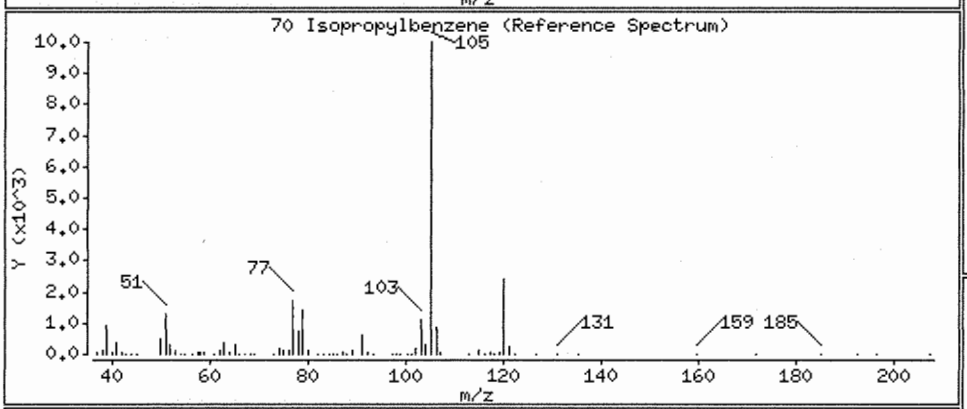
Column diameter: 0.32

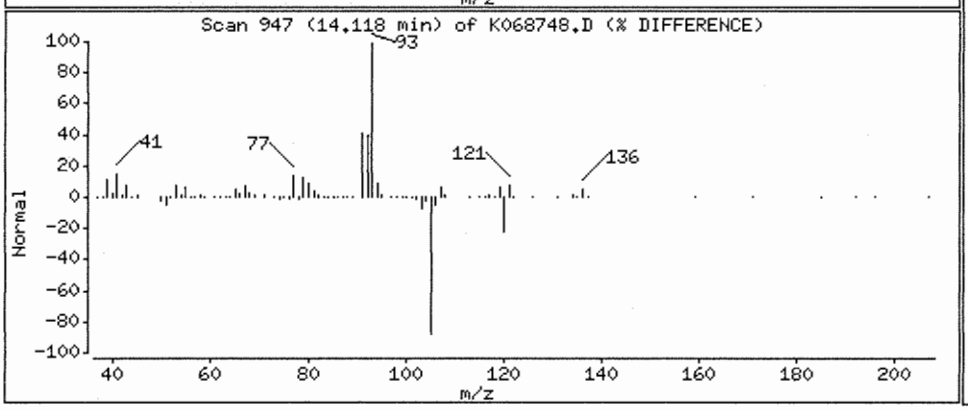
70 Isopropylbenzene

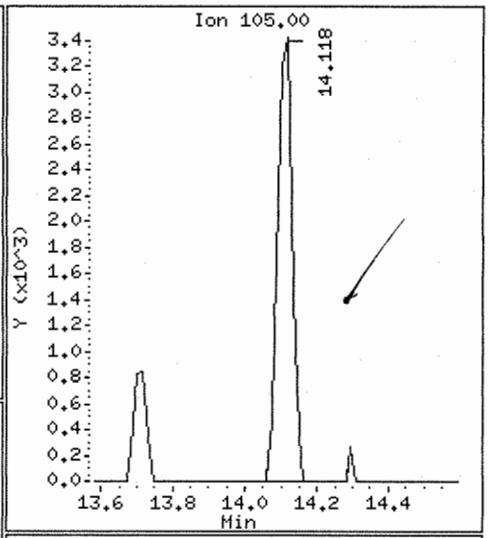
Concentration: 0.128 ug/L

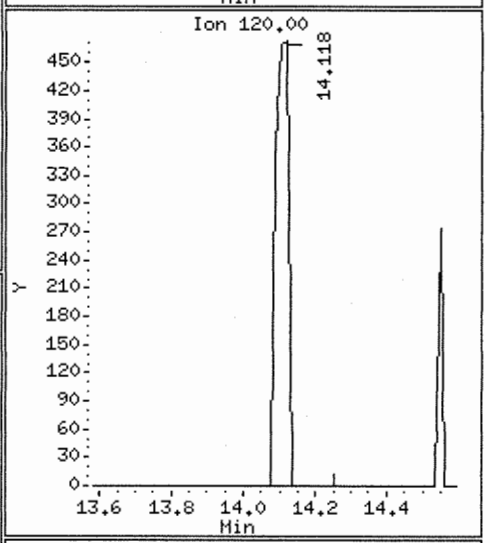


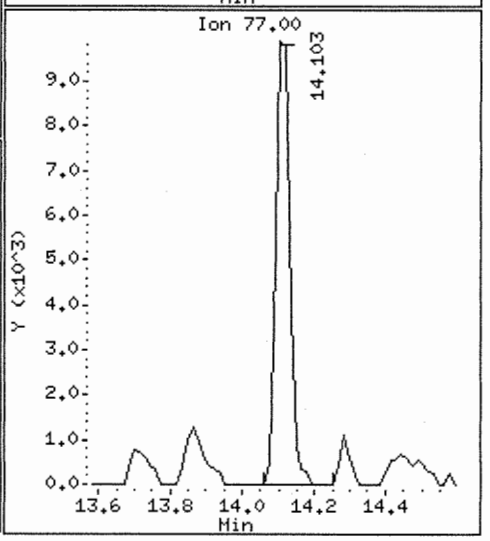












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

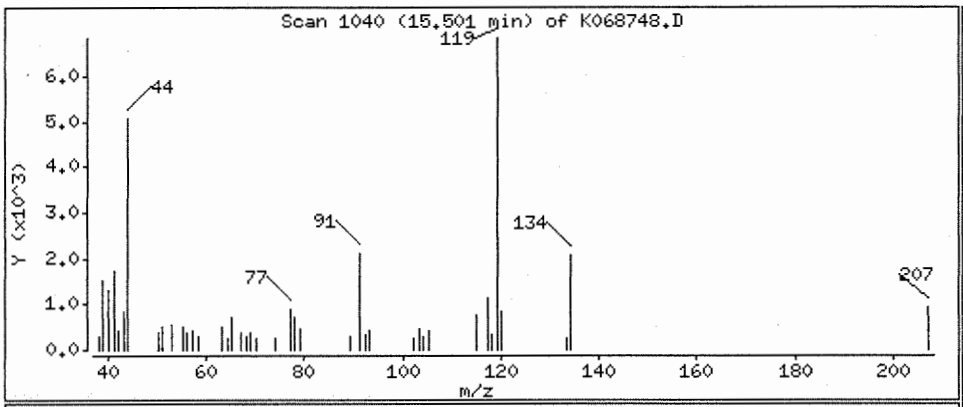
Operator: X

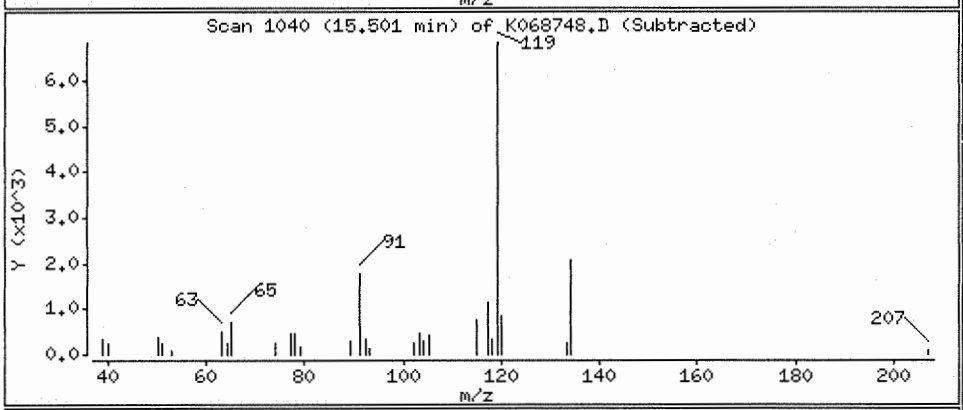
Column phase: DB-624

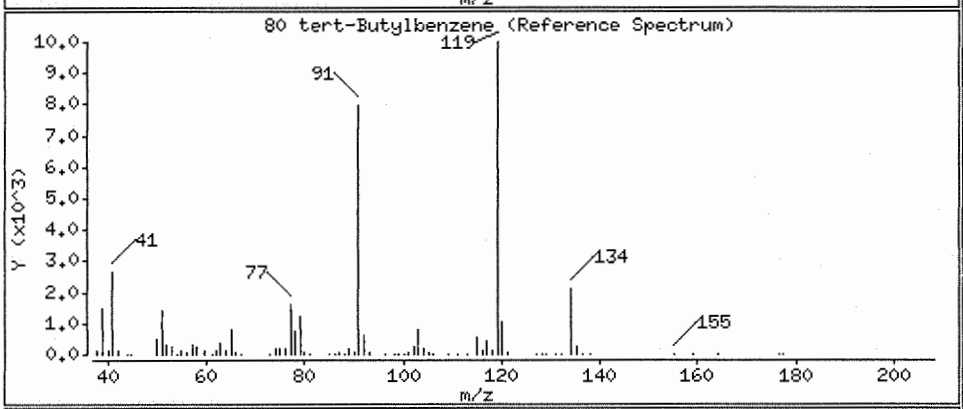
Column diameter: 0.32

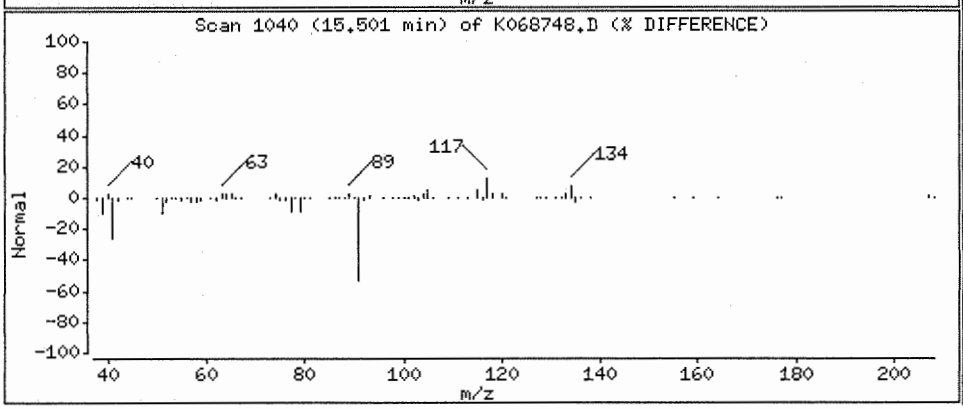
80 tert-Butylbenzene

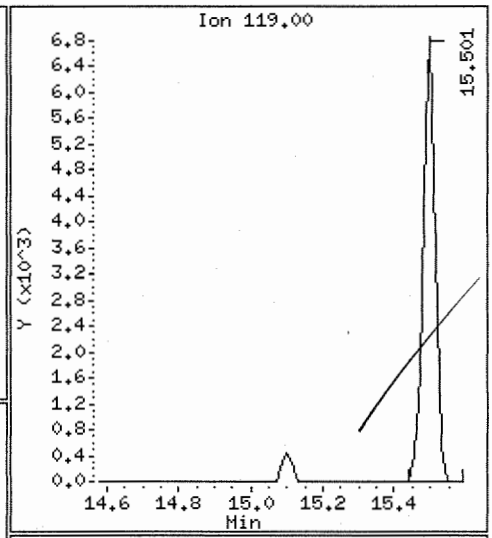
Concentration: 0.319 ug/L

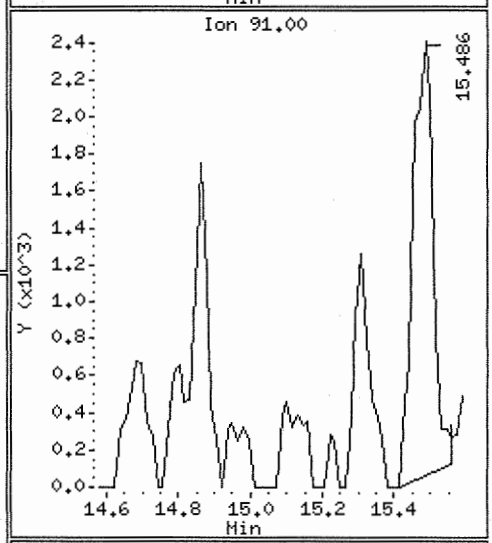


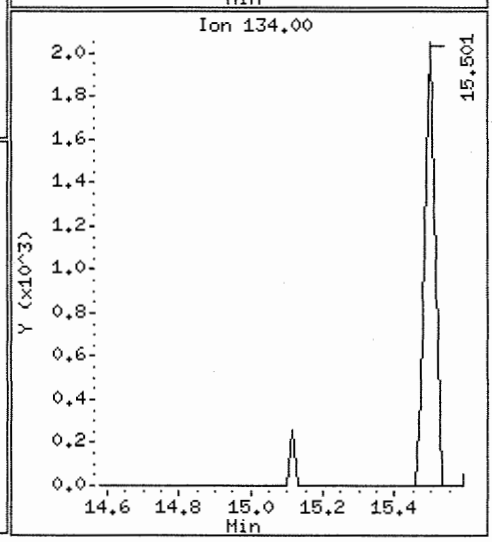












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068748.D

Date : 29-DEC-2006 15:54

Client ID: T-54-GW-65

Instrument: MSK.i

Sample Info: D0602139-004

Purge Volume: 10.0

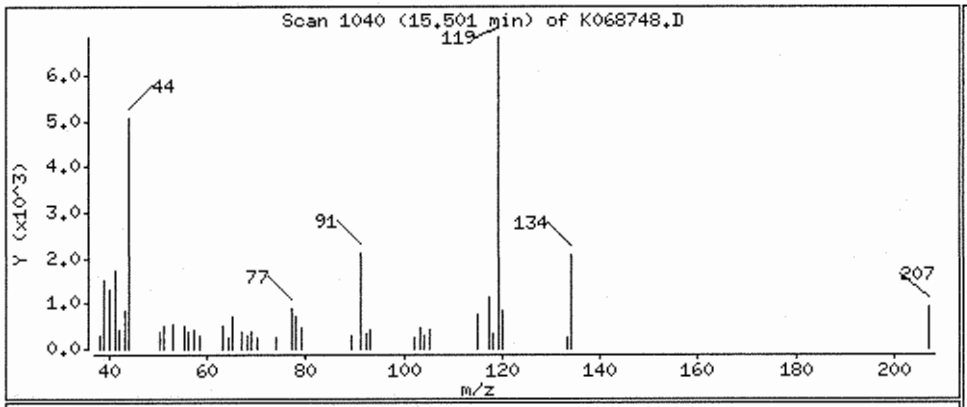
Operator: X

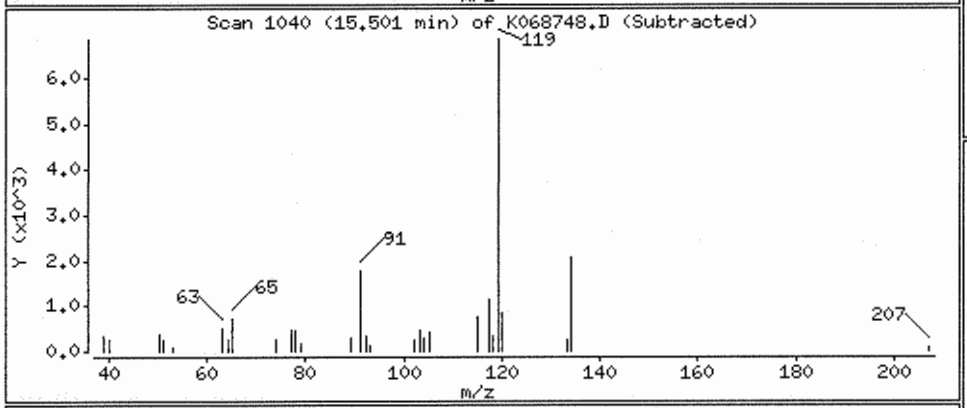
Column phase: DB-624

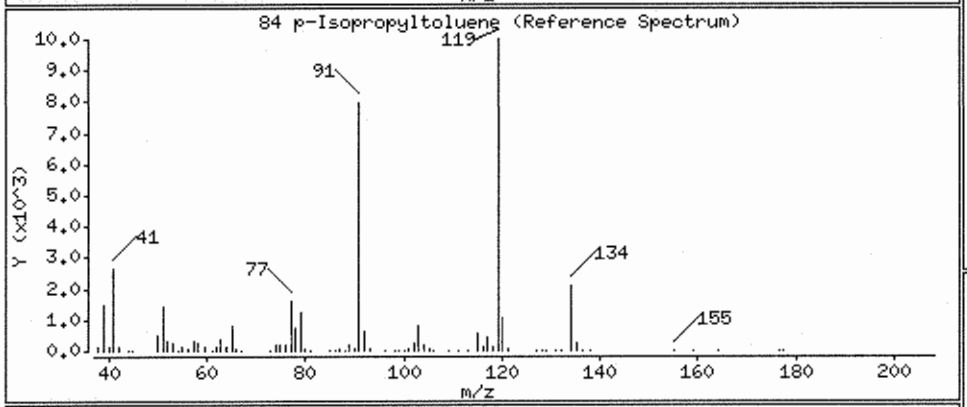
Column diameter: 0.32

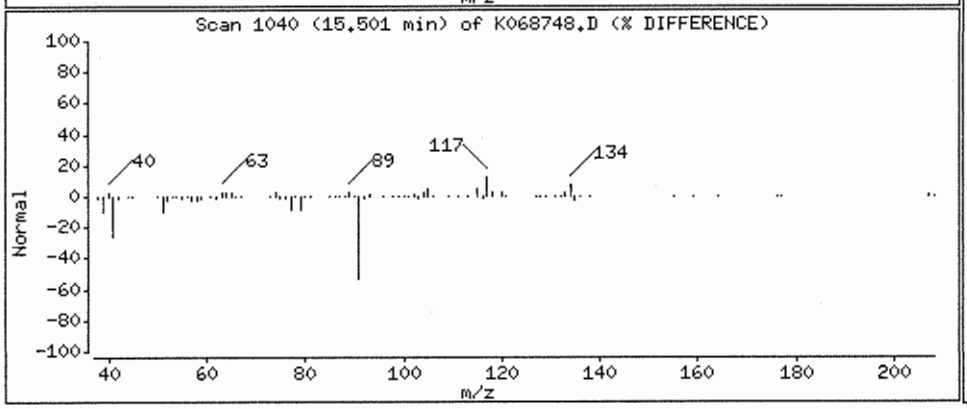
84 p-Isopropyltoluene

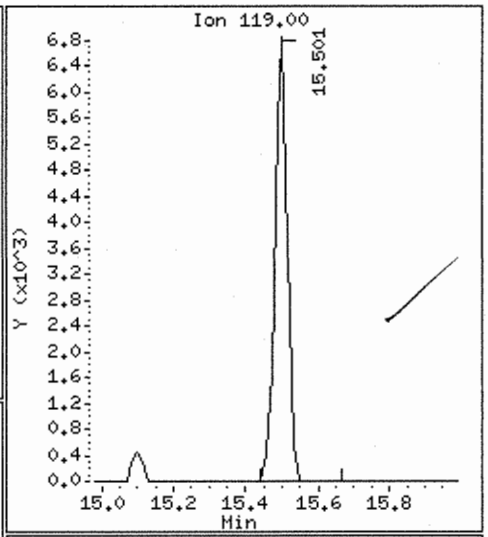
Concentration: 0.290 ug/L

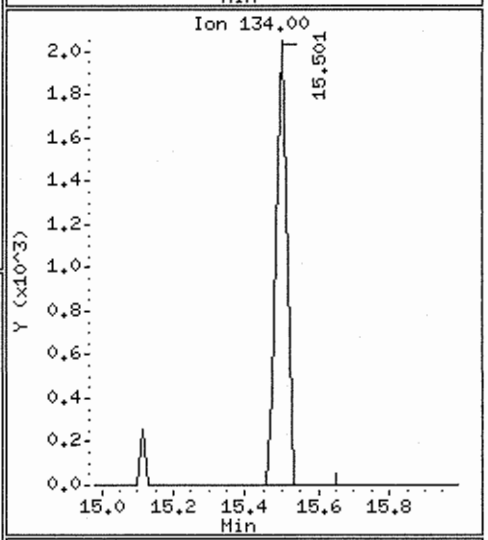


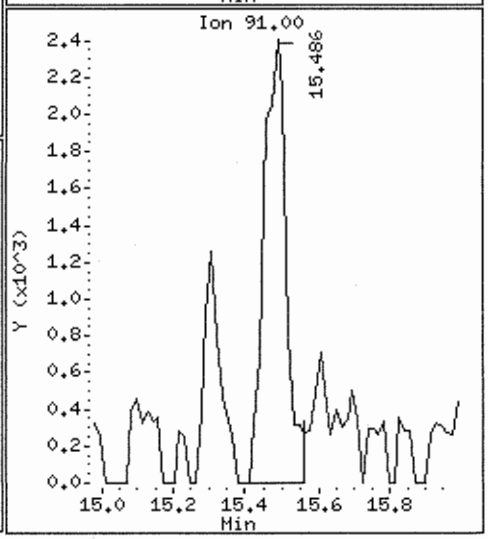












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0602139-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	ND	U	0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**1.6**	J	0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	ND	U	0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**0.42**	J	0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	ND	U	0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**1.2**	J	0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	ND	U	0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	**0.19**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	ND	U	0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	ND	U	0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0602139-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	ND	U	0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	ND	U	0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	ND	U	0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	95	79-135	12/29/2006	
4-Bromofluorobenzene - SS	111	82-124	12/29/2006	
Dibromofluoromethane - SS	97	84-127	12/29/2006	
Toluene-d8 - SS	89	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068740.D
Lab Smp Id: D0602139-005 Client Smp ID: QCEB
Inj Date : 29-DEC-2006 12:20
Operator : X Inst ID: MSK.i
Smp Info : D0602139-005
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 10:45 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

12/02/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.696	9.670	(1.000)	711810	10.0000	
* 2	Chlorobenzene-d5	117	13.042	13.016	(1.000)	494507	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.630	15.604	(1.000)	258555	10.0000	
$ 4	Dibromofluoromethane	113	8.878	8.866	(0.916)	217689	9.73002	9.73
$ 5	1,2-Dichloroethane-d4	65	9.294	9.283	(0.959)	223592	9.47483	9.47
$ 6	Toluene-d8	98	11.436	11.425	(0.877)	559077	8.85038	8.85
$ 7	Bromofluorobenzene	174	14.307	14.280	(0.915)	247846	11.0677	11.1
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	Compound Not Detected.					
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.066	6.070	(0.626)	6940	1.57759	1.58(a)
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	6.706	6.695	(0.692)	9375	0.41993	0.420(a)
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

12/29/06

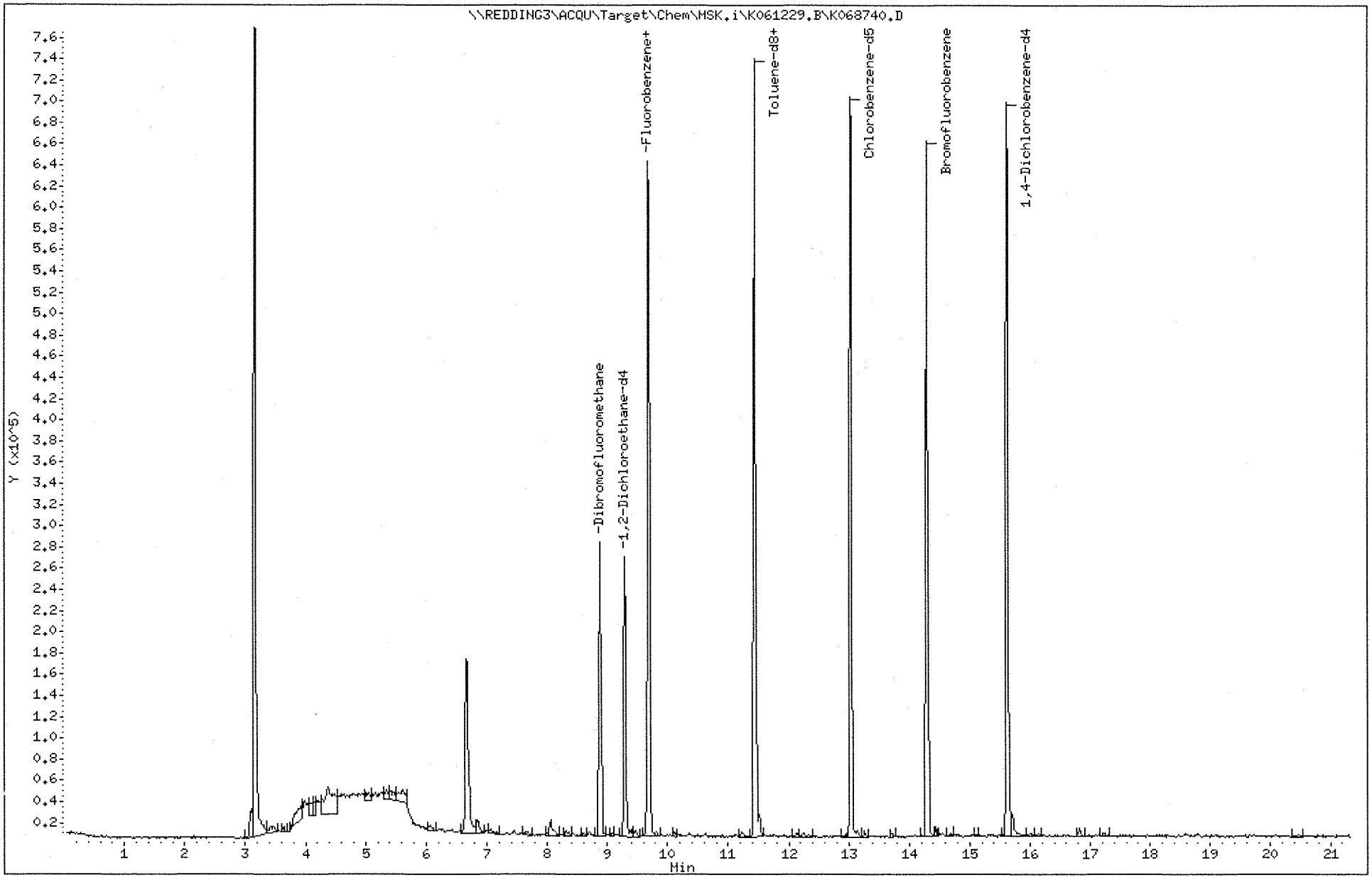
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.312	8.286	(0.857)	7189	1.14712	1.15(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.681	9.372	(0.998)	10593	0.38831	0.388(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	11.510	11.499	(0.883)	8633	0.19120	0.191(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068740.D
Date : 29-DEC-2006 12:20
Client ID: QCEB
Sample Info: D0602139-005
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068740.D

Date : 29-DEC-2006 12:20

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-005

Purge Volume: 10.0

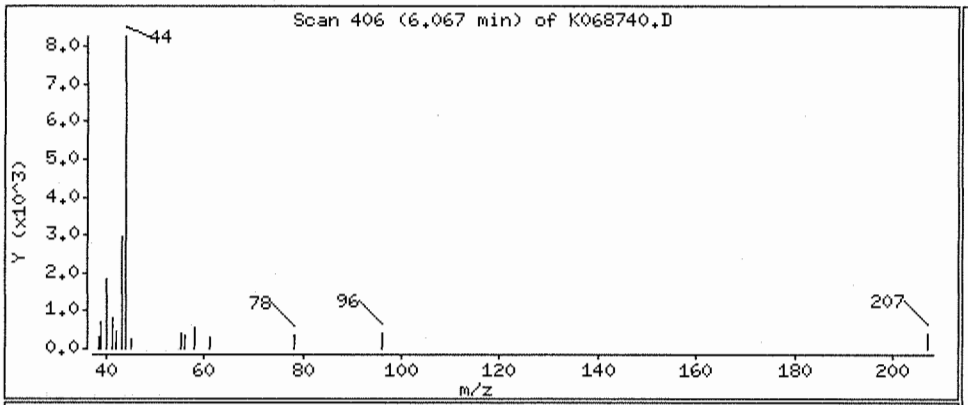
Operator: X

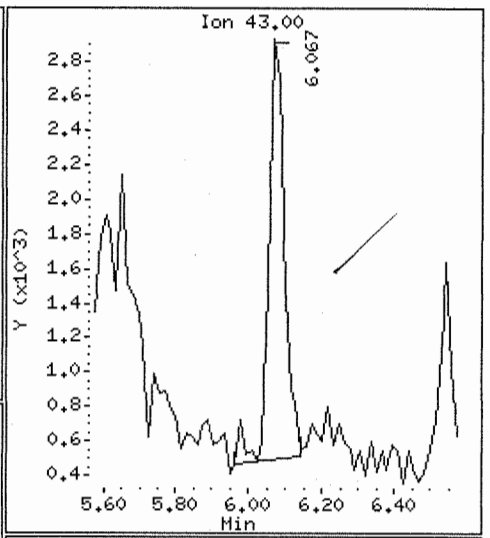
Column phase: DB-624

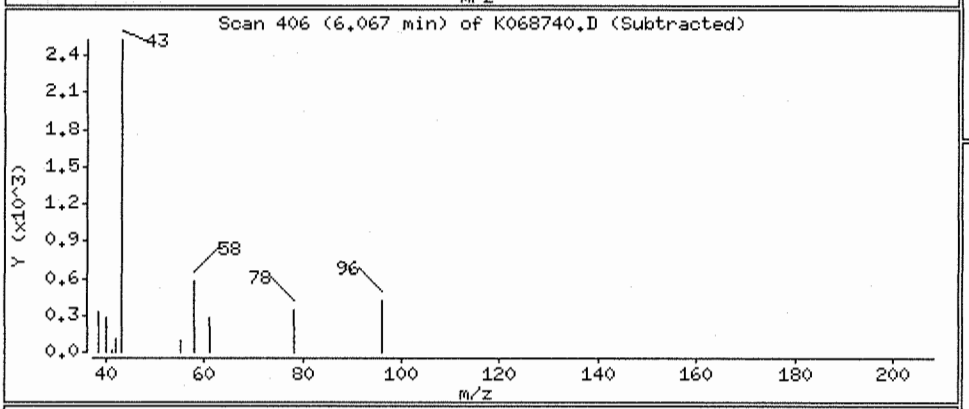
Column diameter: 0.32

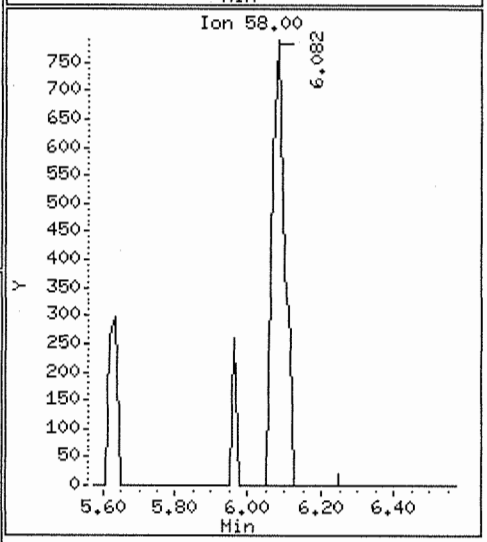
18 Acetone

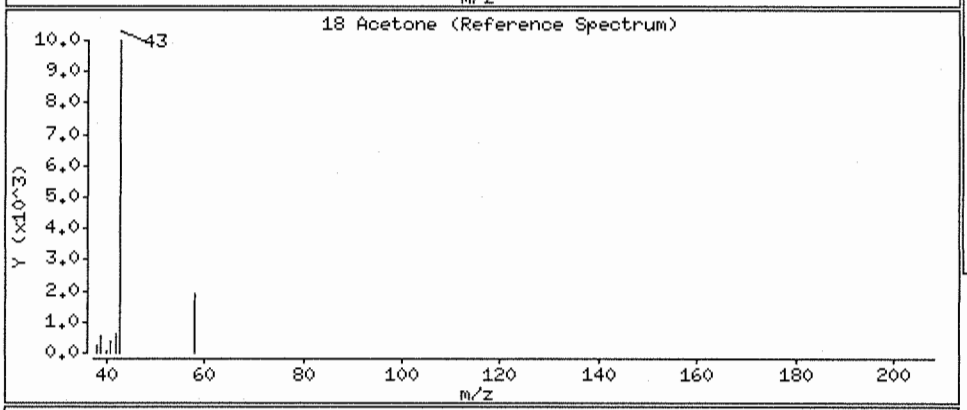
Concentration: 1.58 ug/L

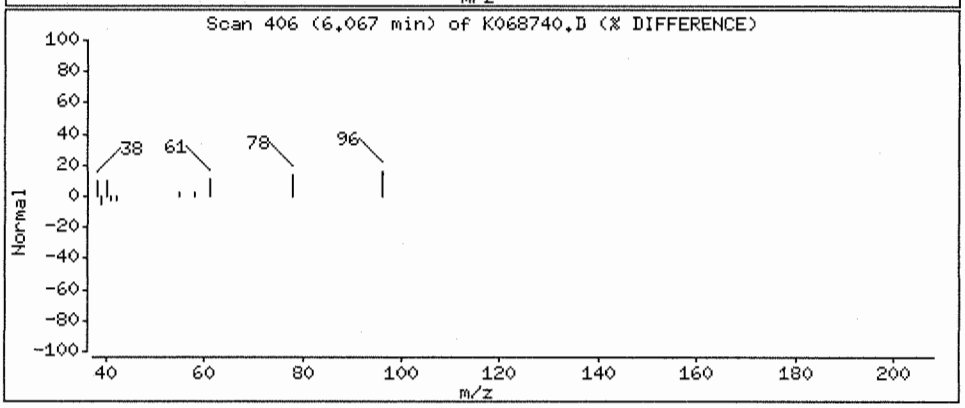












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068740.D

Date : 29-DEC-2006 12:20

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-005

Purge Volume: 10.0

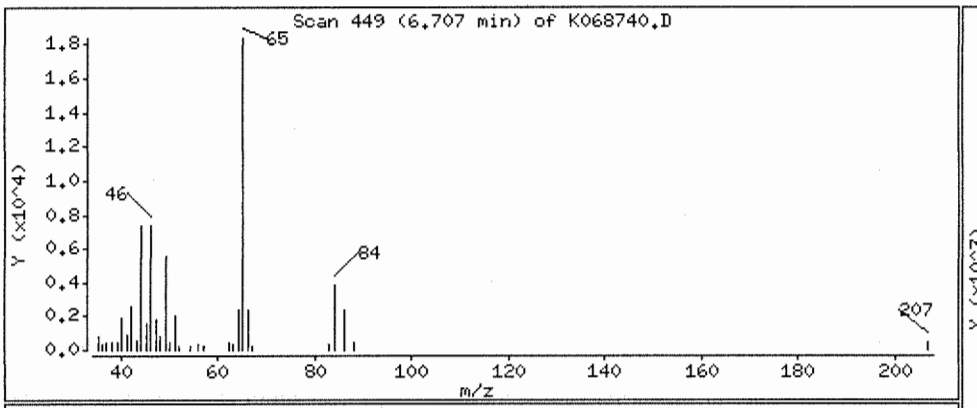
Operator: X

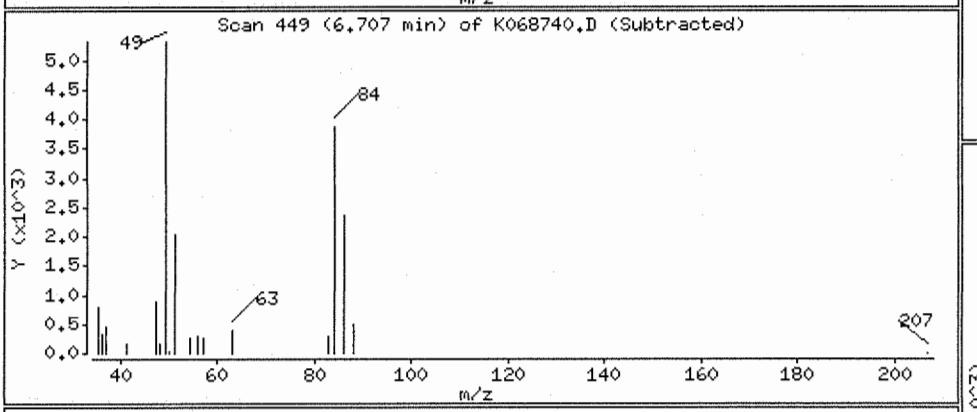
Column phase: DB-624

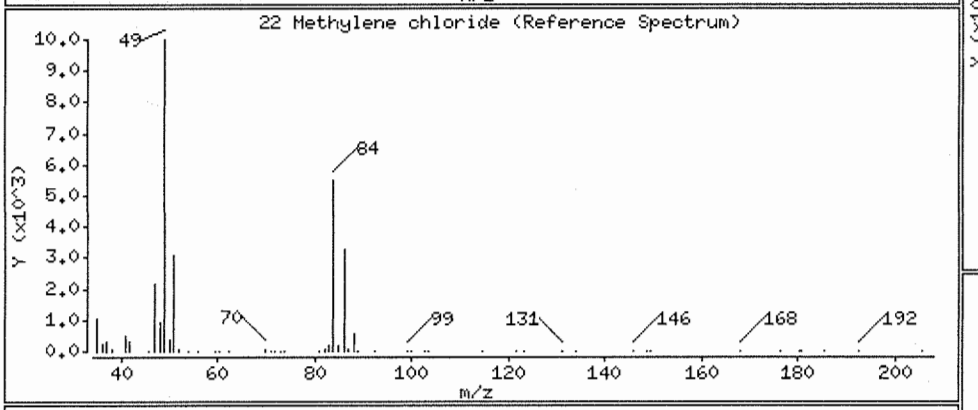
Column diameter: 0.32

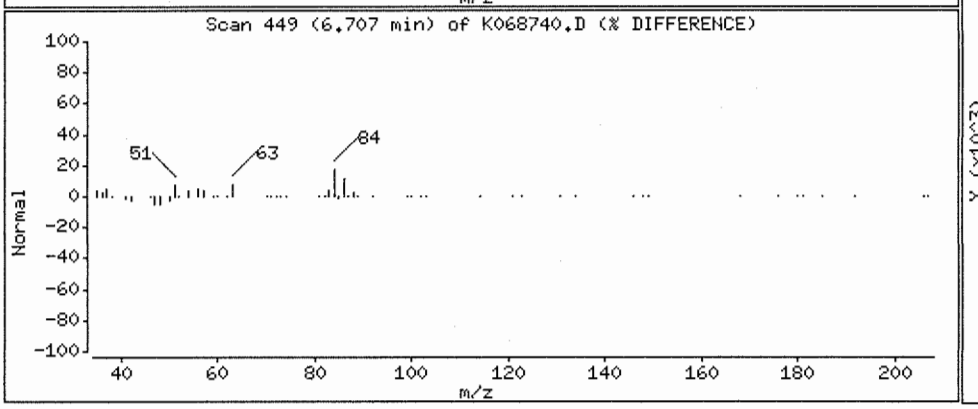
22 Methylene chloride

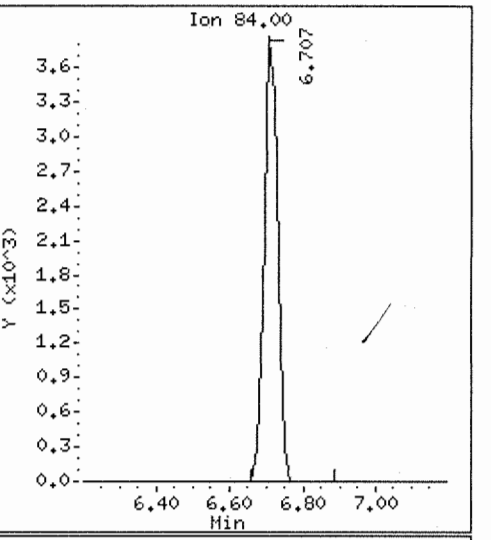
Concentration: 0.420 ug/L

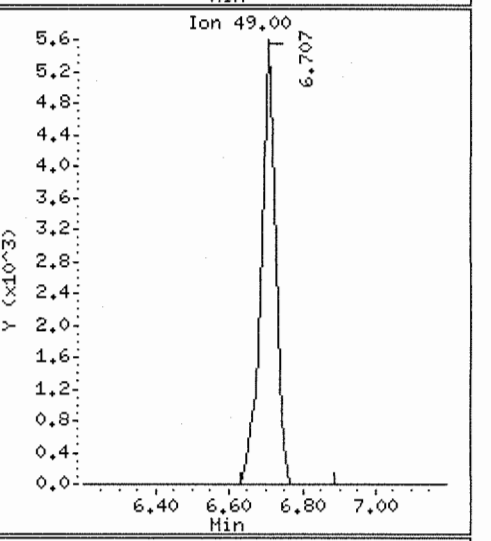


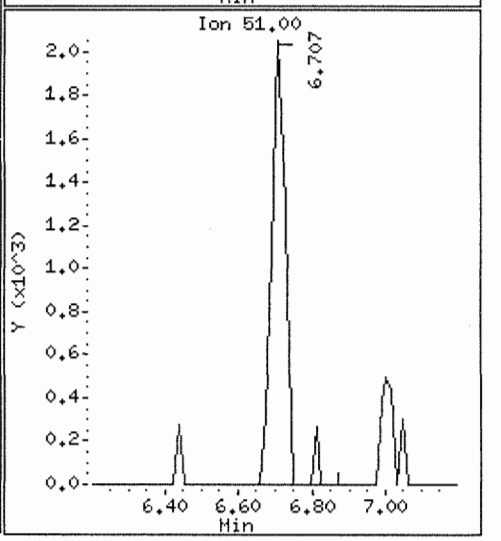












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068740.D

Date : 29-DEC-2006 12:20

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-005

Purge Volume: 10.0

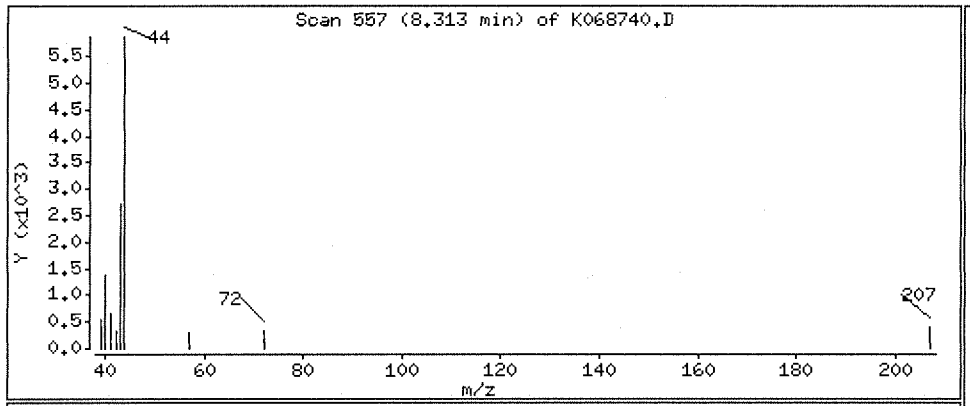
Operator: X

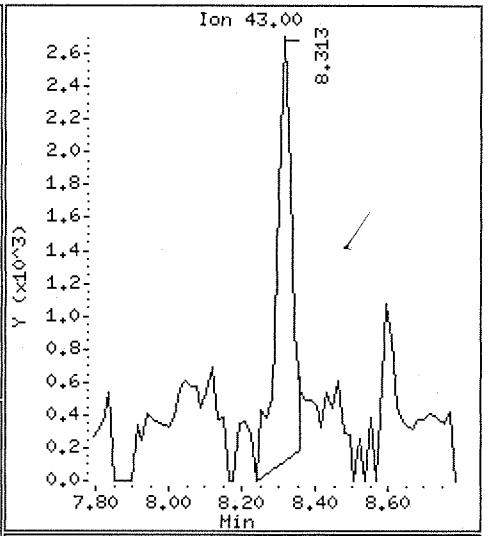
Column phase: DB-624

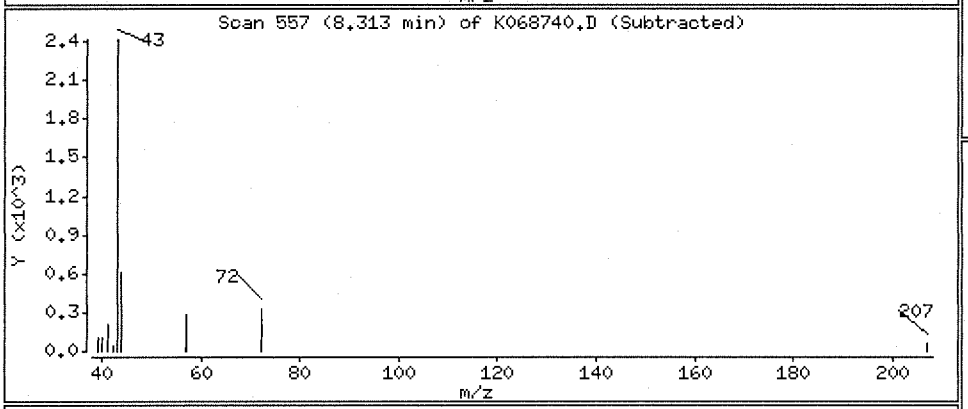
Column diameter: 0.32

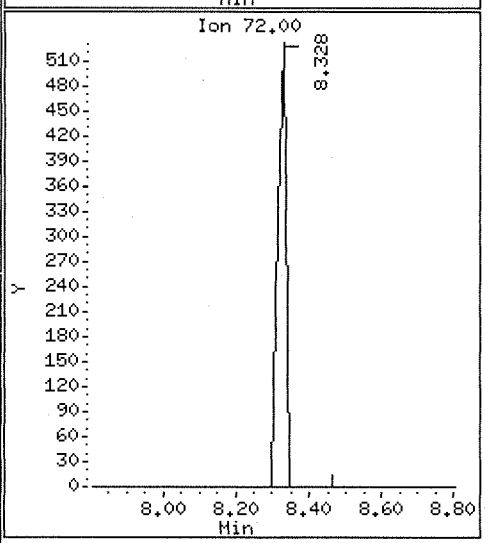
35 2-Butanone

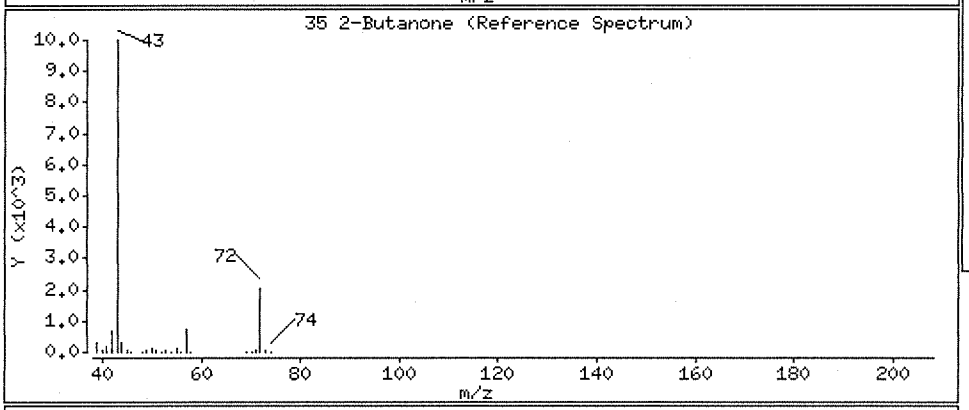
Concentration: 1.15 ug/L

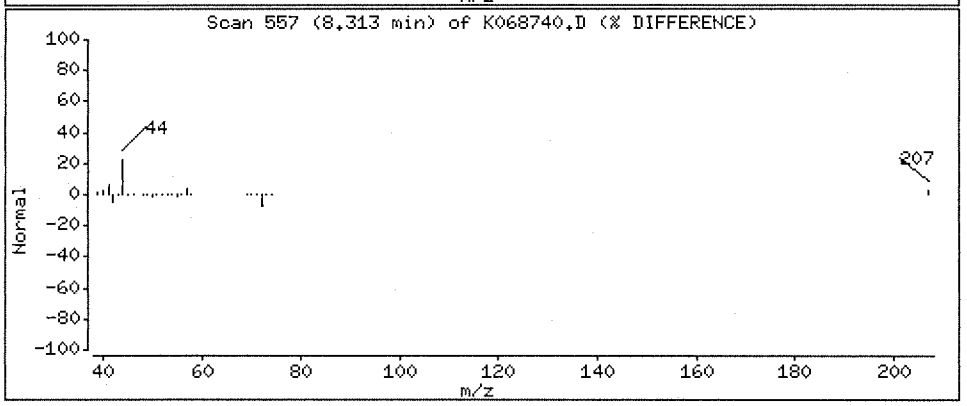












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068740.D

Date : 29-DEC-2006 12:20

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-005

Purge Volume: 10.0

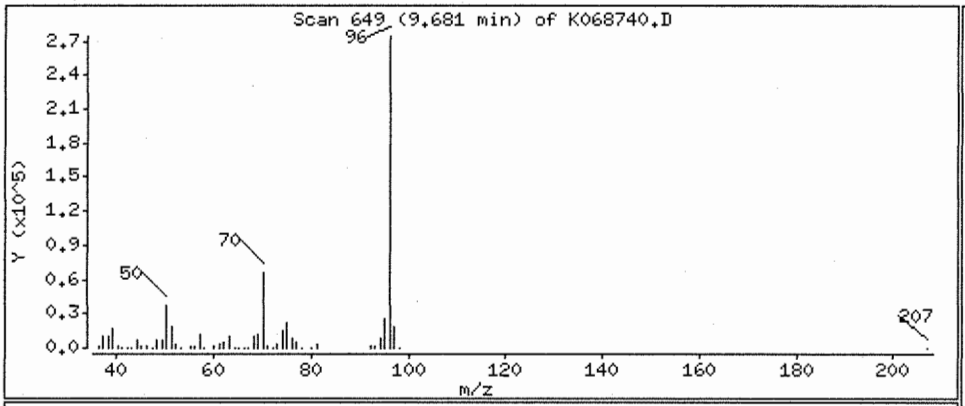
Operator: X

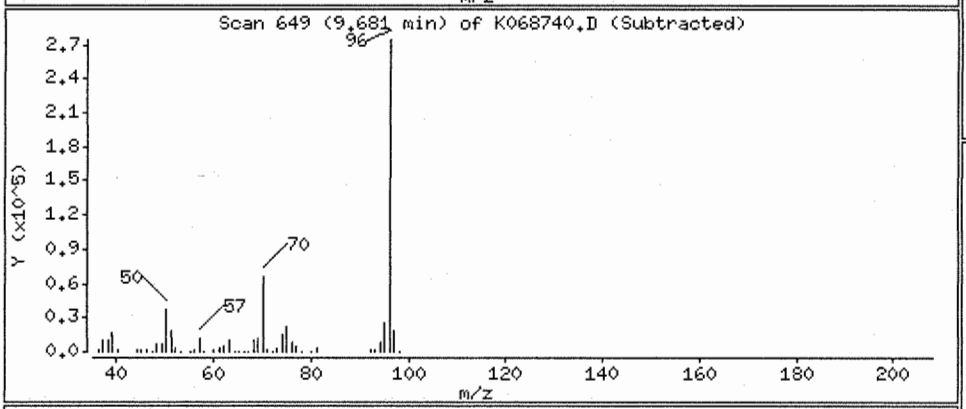
Column phase: DB-624

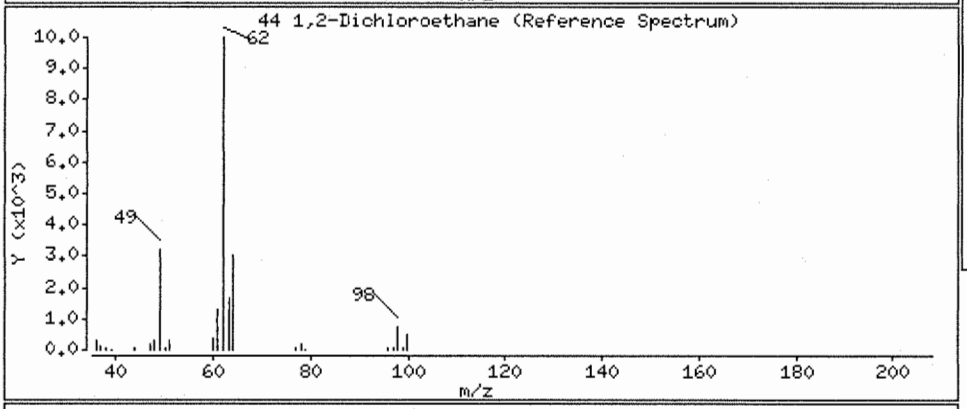
Column diameter: 0.32

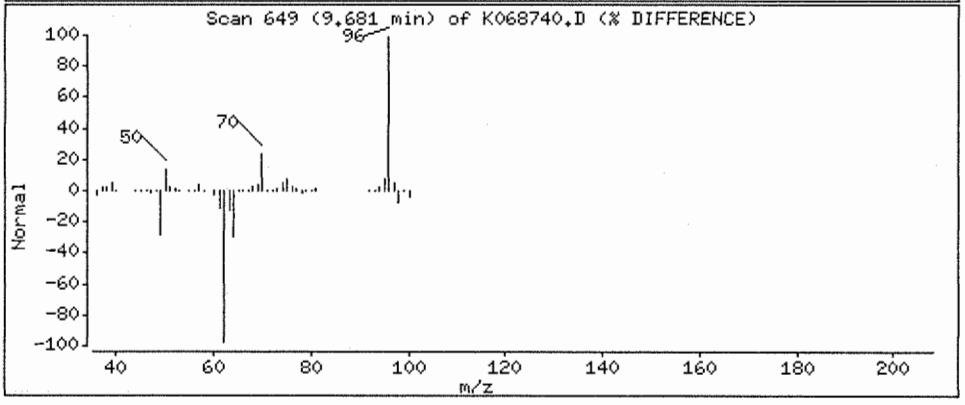
44 1,2-Dichloroethane

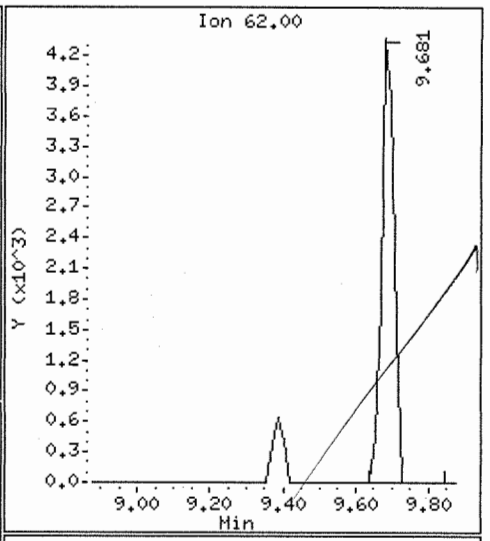
Concentration: 0.388 ug/L

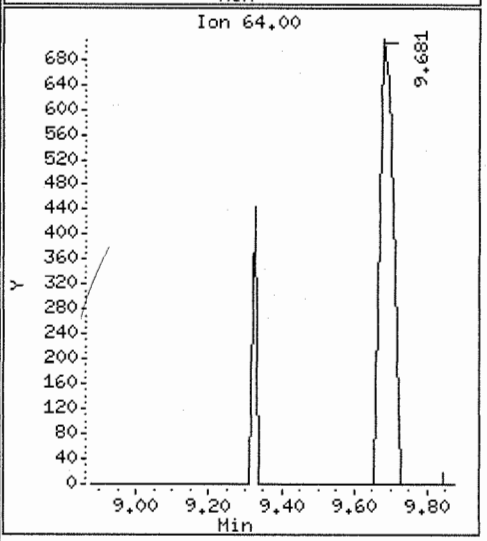












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068740.D

Date : 29-DEC-2006 12:20

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0602139-005

Purge Volume: 10.0

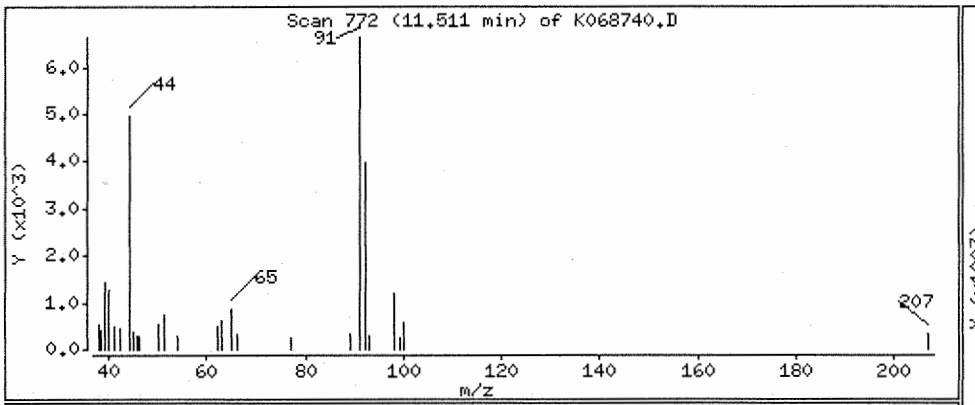
Operator: X

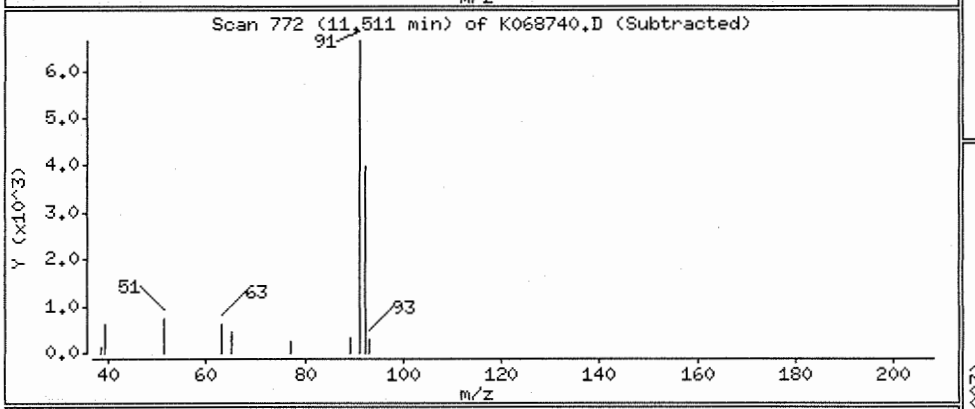
Column phase: DB-624

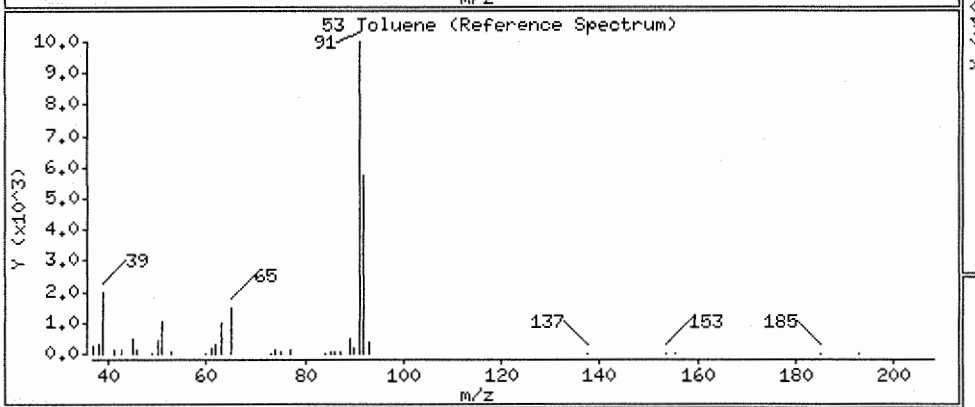
Column diameter: 0.32

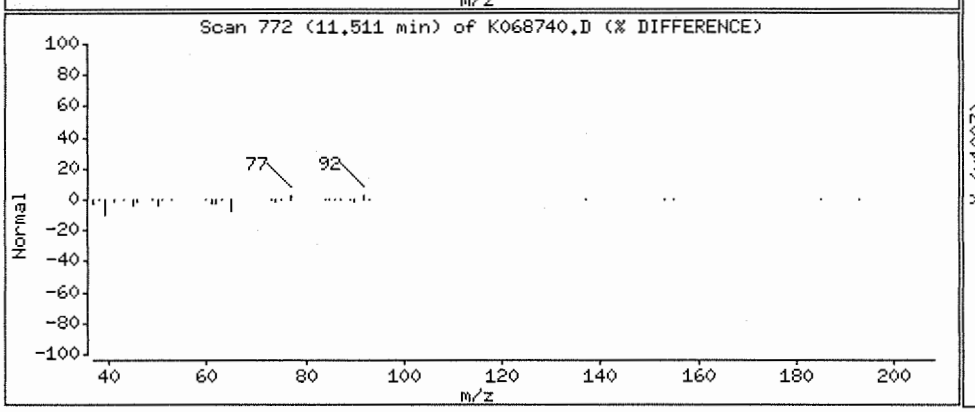
53 Toluene

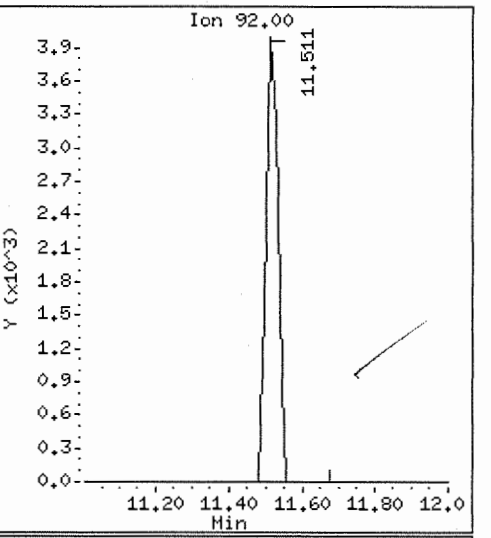
Concentration: 0.191 ug/L

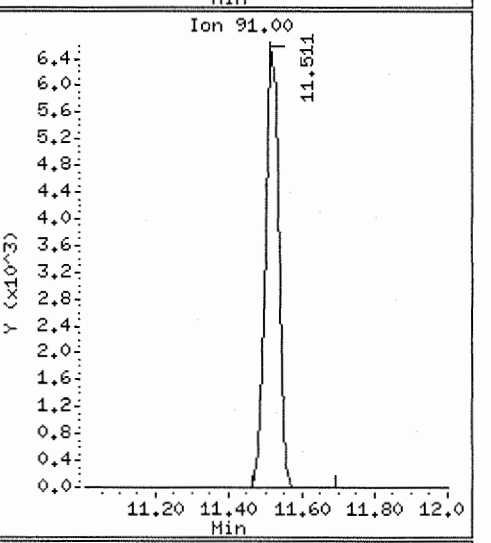


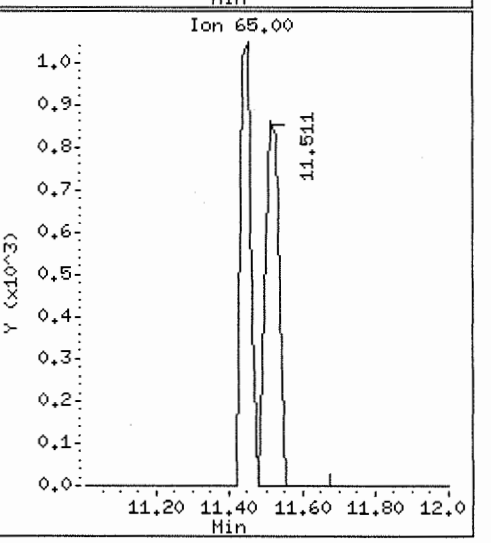












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-55-GW-11
Lab Code: D0602139-006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	**0.75**	J	0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	**0.69**	J	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**15**		0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	**0.44**	J	0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**0.54**	J	0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	ND	U	0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**2.2**	J	0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	ND	U	0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	**0.79**	J	0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	ND	U	0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	ND	U	0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-55-GW-11
Lab Code: D0602139-006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	**0.52**	J	0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	ND	U	0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	ND	U	0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	**0.094**	J	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	108	79-135	12/29/2006	
4-Bromofluorobenzene - SS	97	82-124	12/29/2006	
Dibromofluoromethane - SS	102	84-127	12/29/2006	
Toluene-d8 - SS	98	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D
Lab Smp Id: D0602139-006 Client Smp ID: T-55-GW-11
Inj Date : 29-DEC-2006 20:19
Operator : X Inst ID: MSK.i
Smp Info : D0602139-006
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 13:33 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

1/02/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.680	9.670	(1.000)	792534	10.0000	
* 2	Chlorobenzene-d5	117	13.027	13.016	(1.000)	556083	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.600	15.604	(1.000)	299467	10.0000	
$ 4	Dibromofluoromethane	113	8.877	8.866	(0.917)	255035	10.2382	10.2
$ 5	1,2-Dichloroethane-d4	65	9.294	9.283	(0.960)	284568	10.8305	10.8
$ 6	Toluene-d8	98	11.421	11.425	(0.877)	696946	9.81120	9.81
$ 7	Bromofluorobenzene	174	14.291	14.280	(0.916)	252017	9.71651	9.72
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	3.820	3.824	(0.395)	14908	0.75417	0.754(a)
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	Compound Not Detected.					
13	Chloroethane	64	4.817	4.806	(0.498)	6717	0.69006	0.690(a)
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.066	6.070	(0.627)	75324	15.3785	15.4
21	Carbon disulfide	76	6.438	6.427	(0.665)	34352	0.44457	0.444(a)
22	Methylene chloride	84	6.706	6.695	(0.693)	13548	0.54503	0.545(a)
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

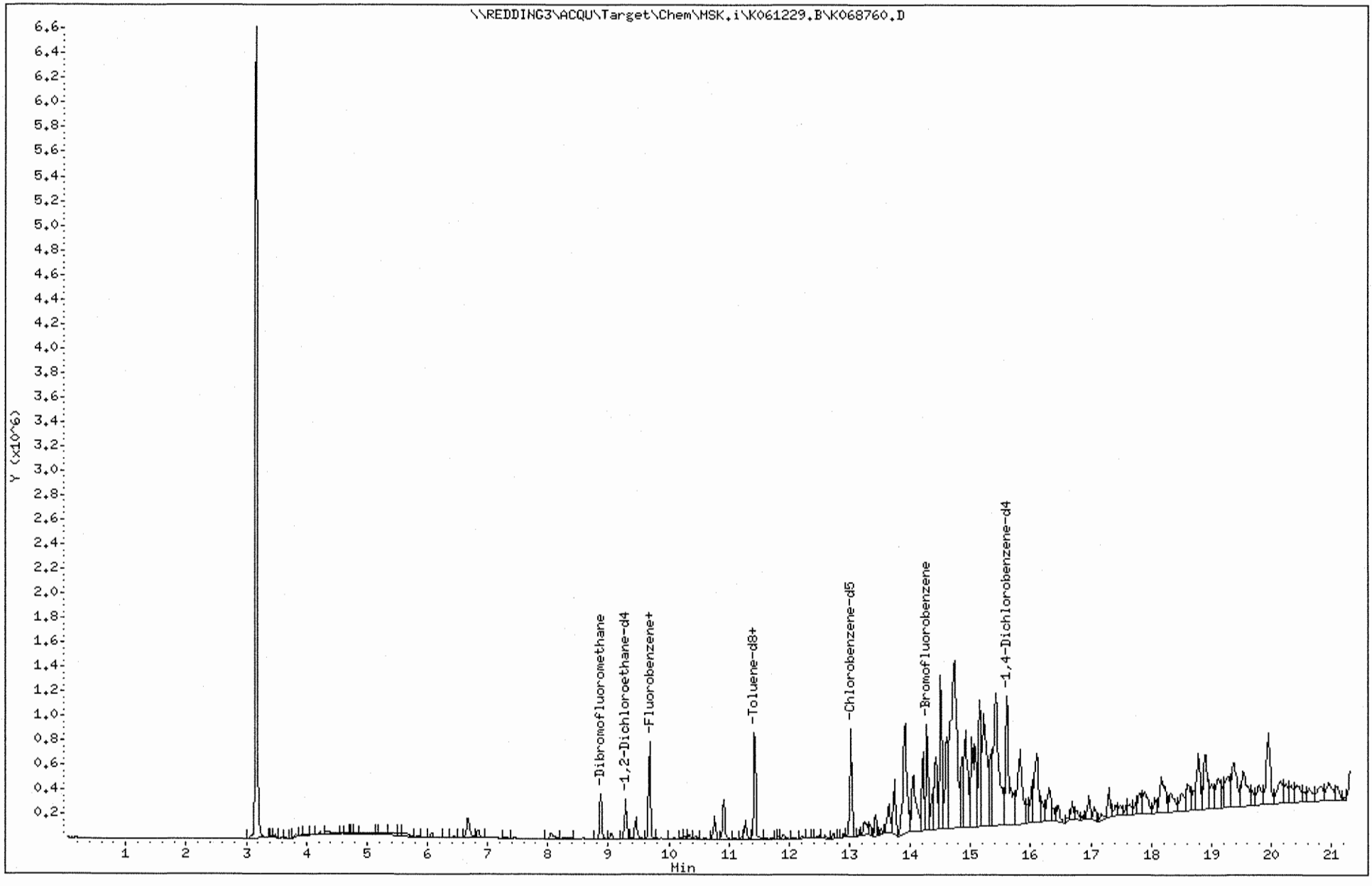
2/2/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	32 2,2-Dichloropropane	77	Compound Not Detected.					
	33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	35 2-Butanone	43	8.297	8.286	(0.857)	15677	2.24673	2.25(a)
	36 Bromochloromethane	128	Compound Not Detected.					
	37 Chloroform	83	Compound Not Detected.					
	38 1,1,1-Trichloroethane	97	Compound Not Detected.					
	40 1,1-Dichloropropene	75	Compound Not Detected.					
	41 Carbon tetrachloride	119	Compound Not Detected.					
	43 Benzene	78	Compound Not Detected.					
	44 1,2-Dichloroethane	62	9.680	9.372	(1.000)	10907	0.35909	0.359(a)
	45 Trichloroethene	95	Compound Not Detected.					
	46 1,2-Dichloropropane	63	Compound Not Detected.					
	48 Dibromomethane	93	Compound Not Detected.					
	49 Bromodichloromethane	83	10.915	10.607	(1.128)	6742	0.21309	0.213(aQ)
	51 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	52 4-Methyl-2-pentanone	43	11.212	11.202	(1.158)	13175	0.79188	0.792(a)
	53 Toluene	92	11.510	11.499	(0.884)	6780	0.13353	0.134(a)
	54 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	55 1,1,2-Trichloroethane	83	Compound Not Detected.					
	56 Tetrachloroethene	166	Compound Not Detected.					
	57 1,3-Dichloropropane	76	Compound Not Detected.					
	58 2-Hexanone	43	Compound Not Detected.					
	59 Dibromochloromethane	129	Compound Not Detected.					
	60 1,2-Dibromoethane	107	Compound Not Detected.					
	62 Chlorobenzene	112	Compound Not Detected.					
	63 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	64 Ethylbenzene	91	13.250	13.135	(1.017)	27466	0.27855	0.278(a)
	65 m-,p-Xylene	106	13.250	13.254	(1.017)	9069	0.27510	0.275(aQ)
	66 o-Xylene	106	13.696	13.700	(1.051)	7784	0.24193	0.242(aQ)
M	67 Xylene (total)	106				16853	0.51702	0.517(a)
	68 Styrene	104	Compound Not Detected.					
	69 Bromoform	173	Compound Not Detected.					
	70 Isopropylbenzene	105	Compound Not Detected.					
	71 1,1,2,2-Tetrachloroethane	83	14.366	14.370	(0.921)	64432	2.92611	2.93(Q)
	72 Bromobenzene	156	Compound Not Detected.					
	73 1,2,3-Trichloropropane	110	14.440	14.444	(0.926)	11074	2.25919	2.26(Q)
	74 n-Propylbenzene	120	Compound Not Detected.					
	76 2-Chlorotoluene	126	14.678	14.667	(0.941)	34727	1.68908	1.69
	78 1,3,5-Trimethylbenzene	105	14.648	14.697	(0.939)	9192	0.12606	0.126(a)
	79 4-Chlorotoluene	126	14.857	14.786	(0.952)	12080	0.56041	0.560(a)
	80 tert-Butylbenzene	119	15.095	15.084	(0.968)	5923	0.09375	0.0938(aQ)
	81 1,2,4-Trimethylbenzene	105	14.961	15.143	(0.959)	17488	0.24201	0.242(a)
	82 sec-Butylbenzene	105	14.961	15.337	(0.959)	17451	0.20632	0.206(a)
	83 1,3-Dichlorobenzene	146	Compound Not Detected.					
	84 p-Isopropyltoluene	119	15.764	15.485	(1.010)	10718	0.15418	0.154(aQ)
	85 1,4-Dichlorobenzene	146	Compound Not Detected.					
	87 n-Butylbenzene	91	15.957	15.991	(1.023)	10182	0.13302	0.133(aQ)
	88 1,2-Dichlorobenzene	146	Compound Not Detected.					
	89 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
	90 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	91 Hexachlorobutadiene	225	Compound Not Detected.					
	92 Naphthalene	128	19.081	19.070	(1.223)	13473	0.29330	0.293(aQ)
	93 1,2,3-Trichlorobenzene	180	19.557	19.561	(1.254)	6218	0.23411	0.234(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D
Date : 29-DEC-2006 20:19
Client ID: T-55-GW-11
Instrument: MSK.i
Sample Info: D0602139-006
Purge Volume: 10.0
Operator: X
Column phase: DB-624
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

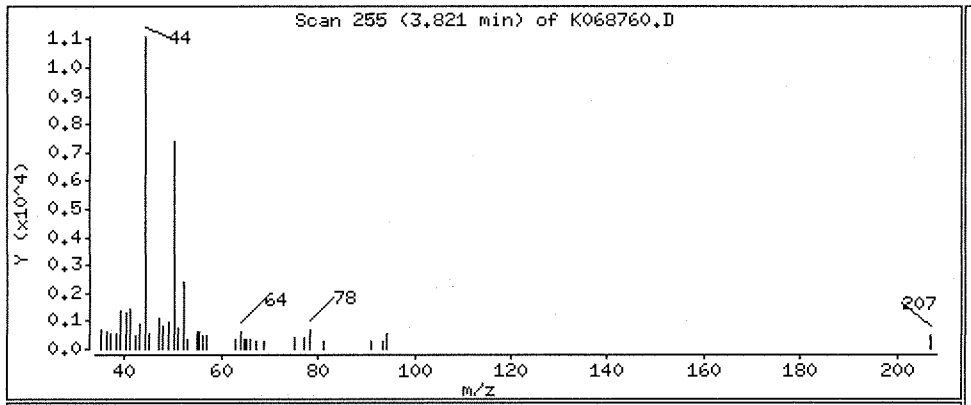
Client ID: T-55-GW-11 Instrument: MSK.i

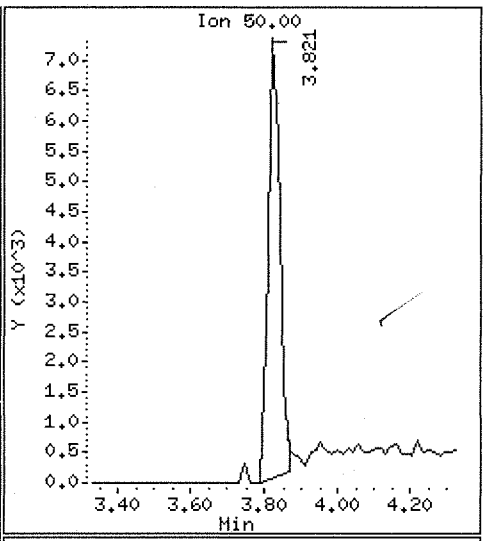
Sample Info: D0602139-006

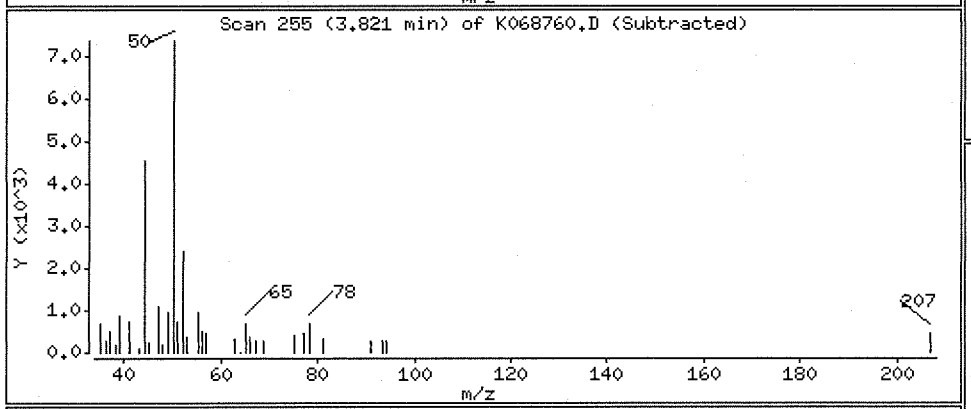
Purge Volume: 10.0 Operator: X

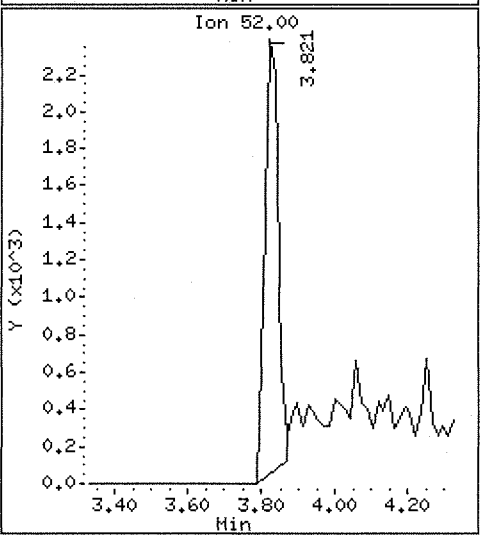
Column phase: DB-624 Column diameter: 0.32

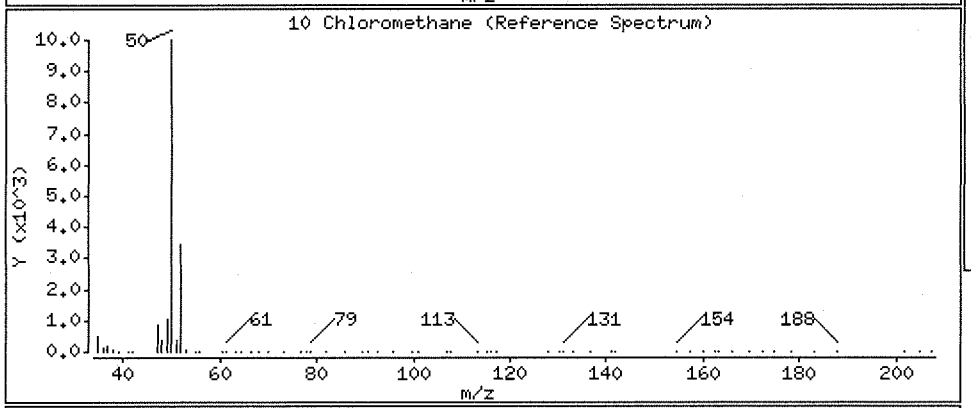
10 Chloromethane Concentration: 0.754 ug/L

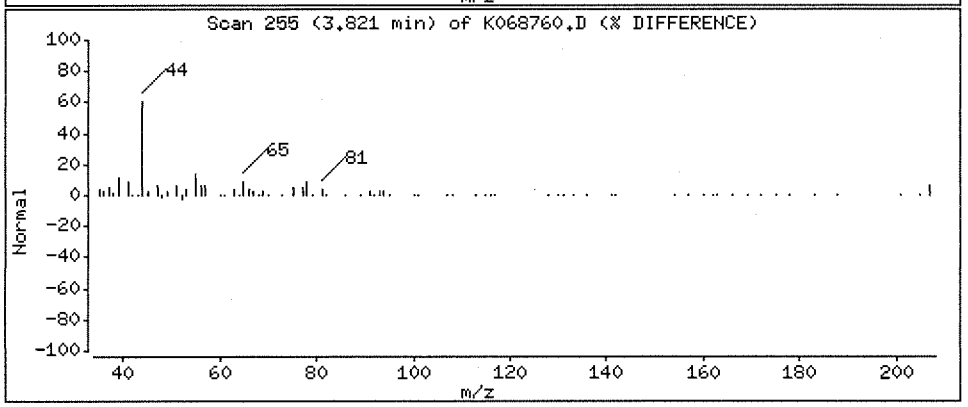












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Date : 29-DEC-2006 20:19

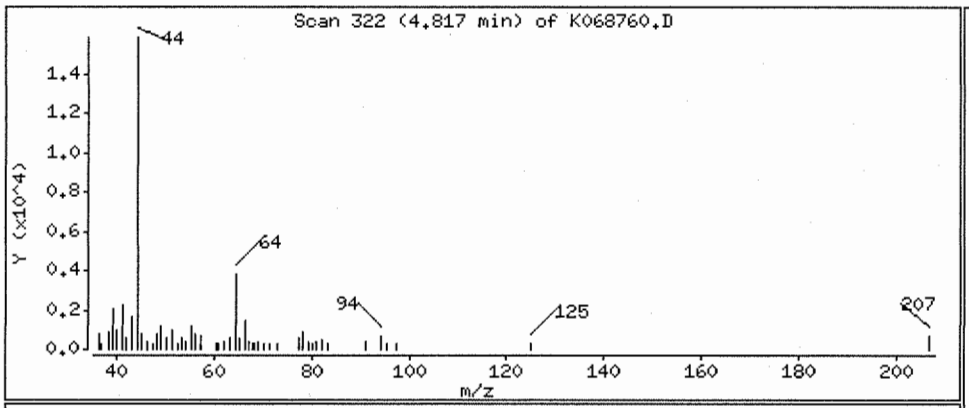
Client ID: T-55-GW-11 Instrument: MSK.i

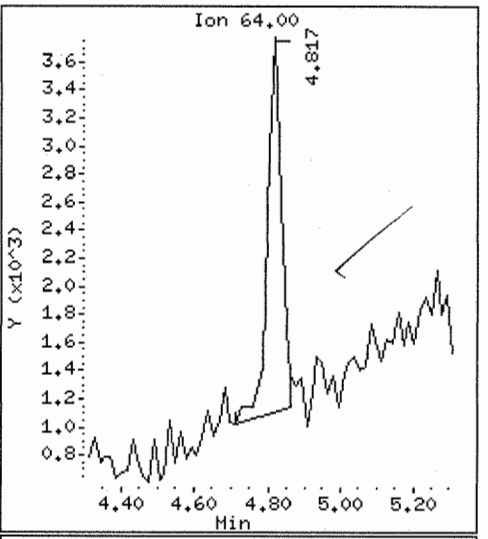
Sample Info: D0602139-006

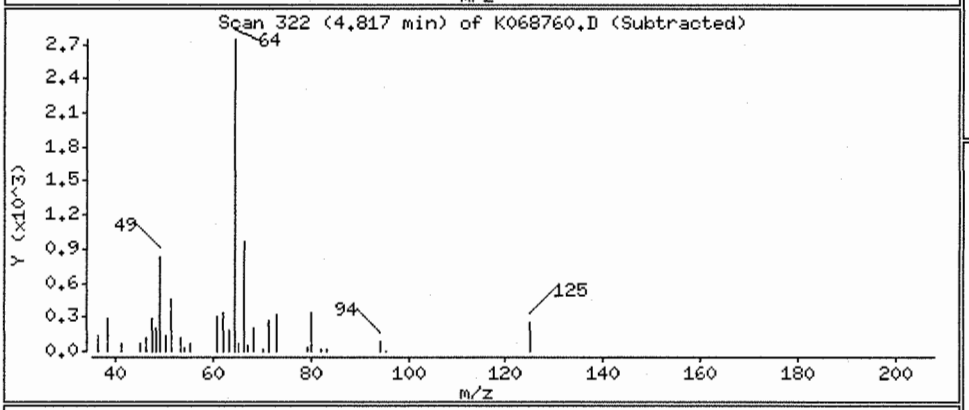
Purge Volume: 10.0 Operator: X

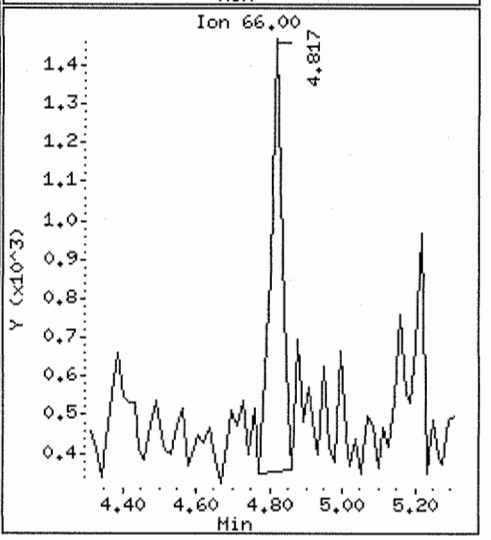
Column phase: DB-624 Column diameter: 0.32

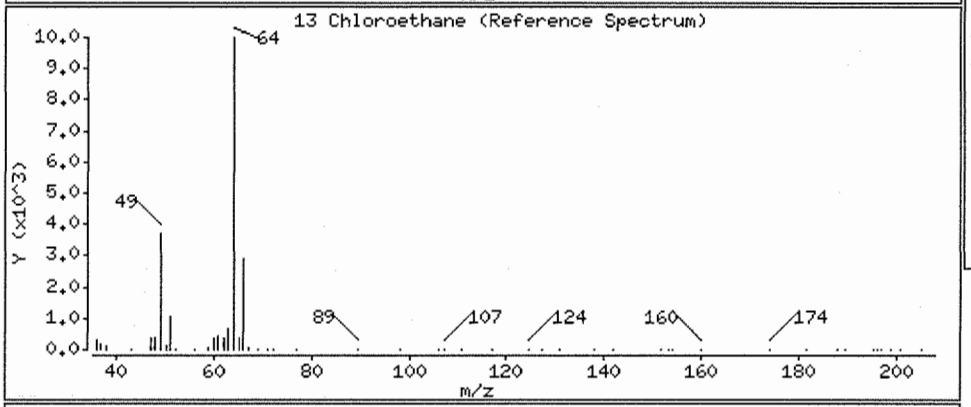
13 Chloroethane Concentration: 0.690 ug/L

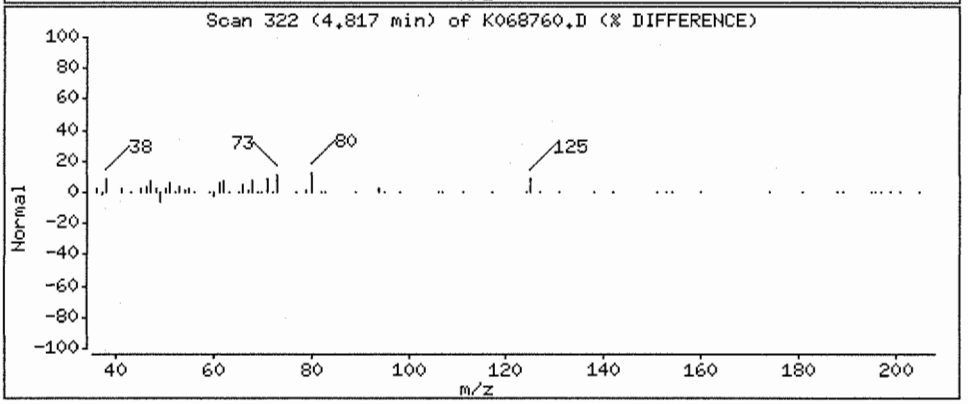












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Date : 29-DEC-2006 20:19

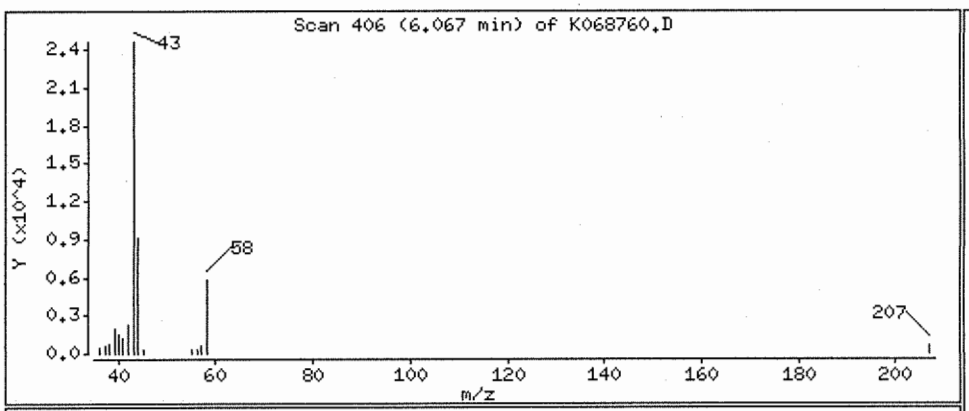
Client ID: T-55-GW-11 Instrument: MSK.i

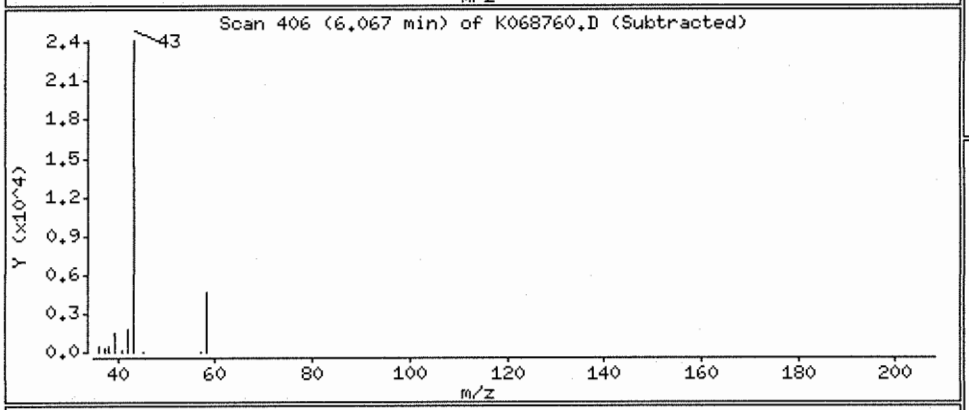
Sample Info: D0602139-006

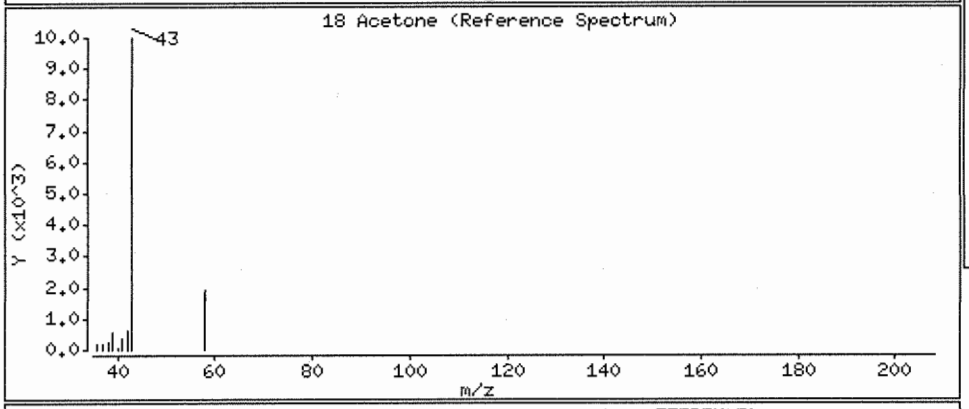
Purge Volume: 10.0 Operator: X

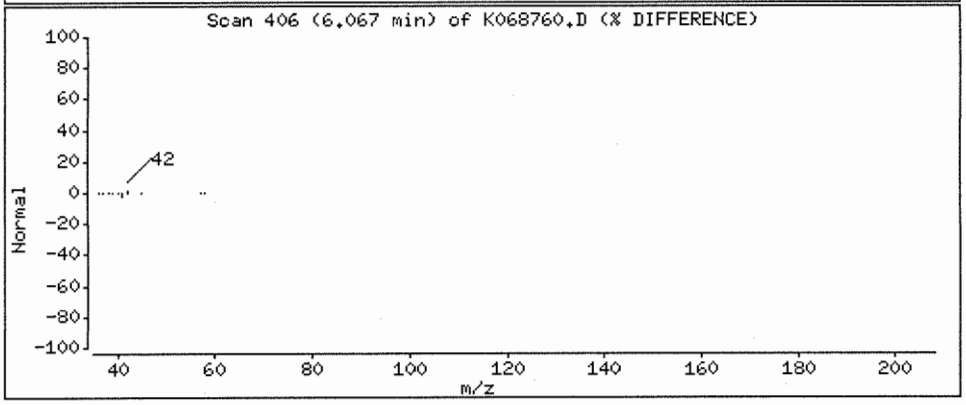
Column phase: DB-624 Column diameter: 0.32

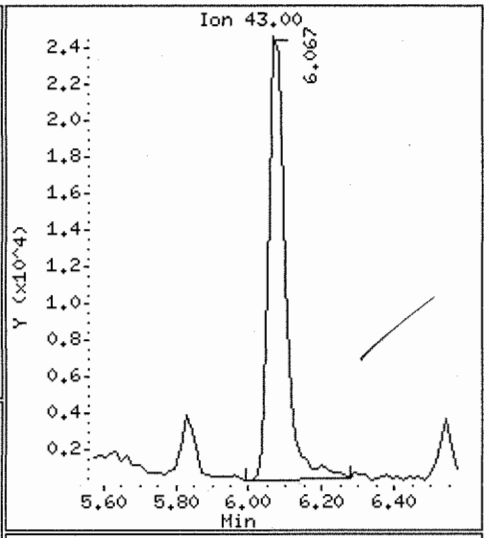
18 Acetone Concentration: 15.4 ug/L

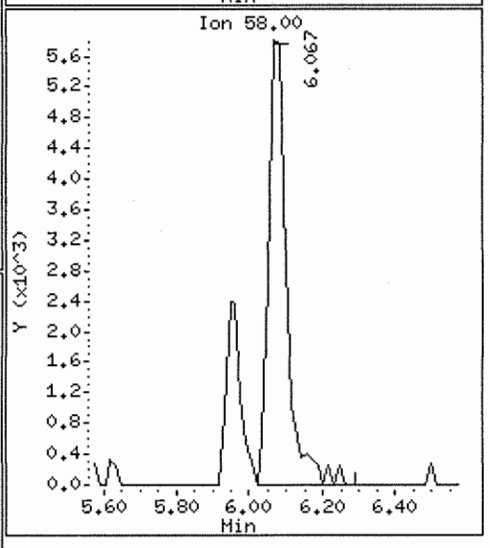












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

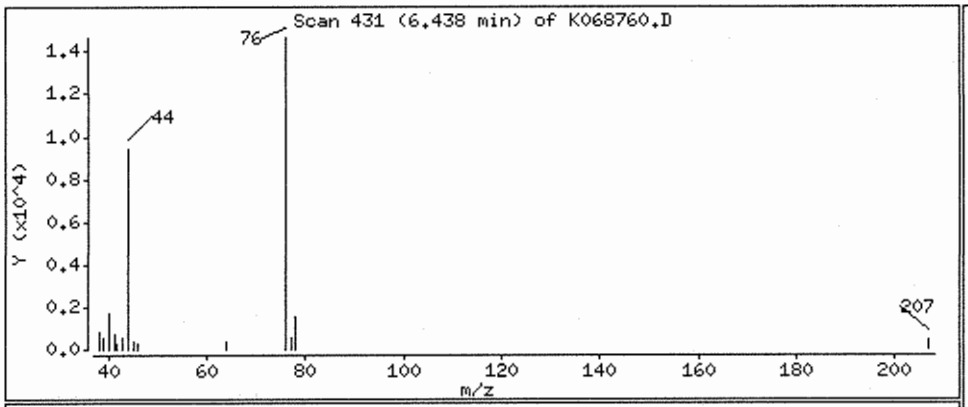
Client ID: T-55-GW-11 Instrument: MSK.i

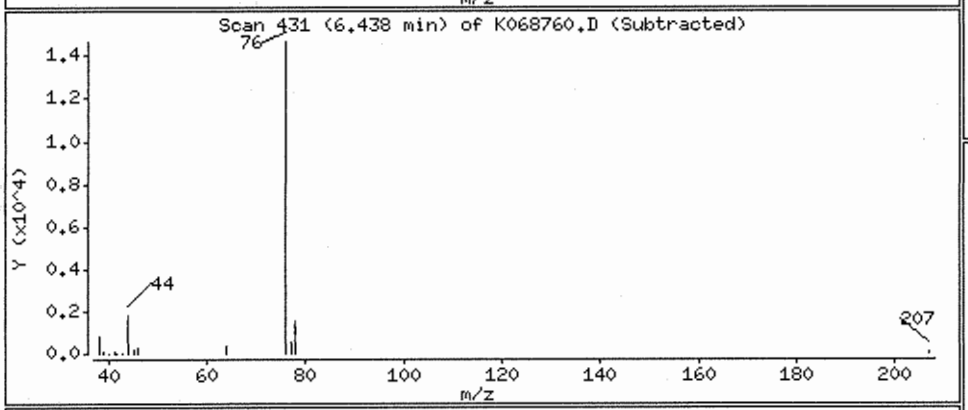
Sample Info: D0602139-006

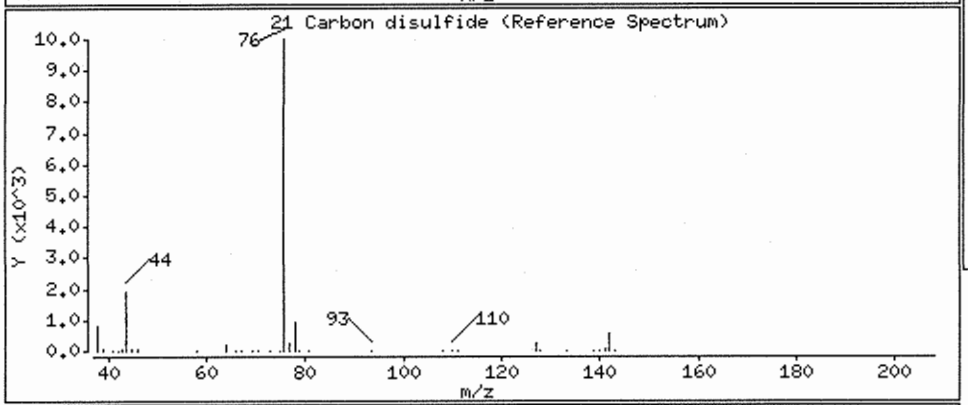
Purge Volume: 10.0 Operator: X

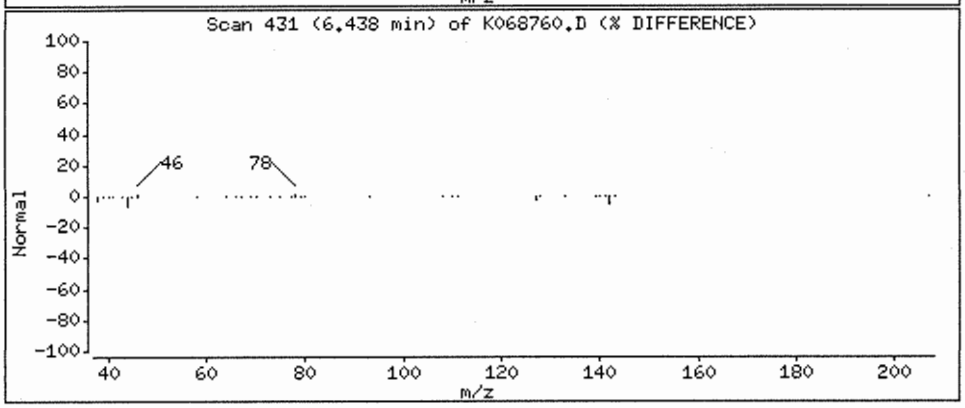
Column phase: DB-624 Column diameter: 0.32

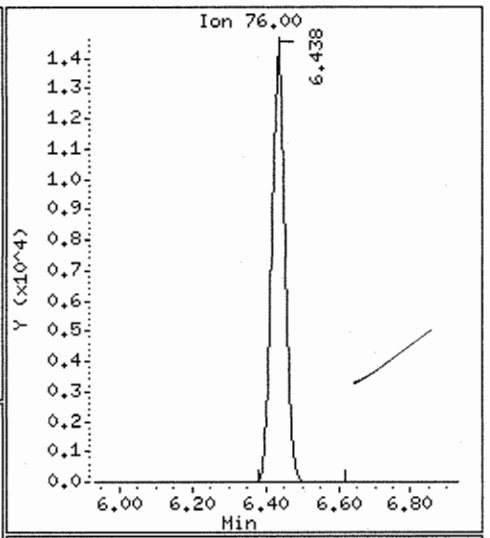
21 Carbon disulfide Concentration: 0.444 ug/L

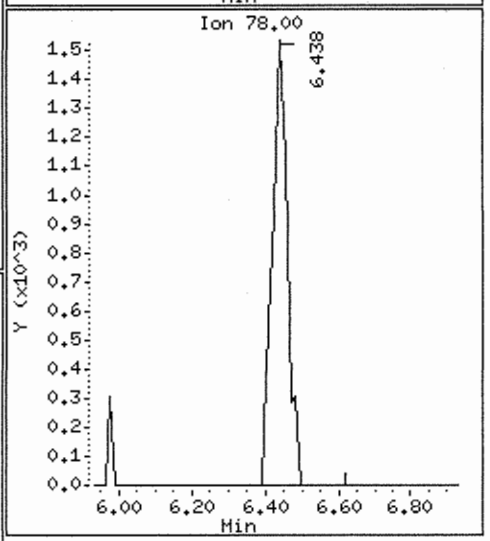












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

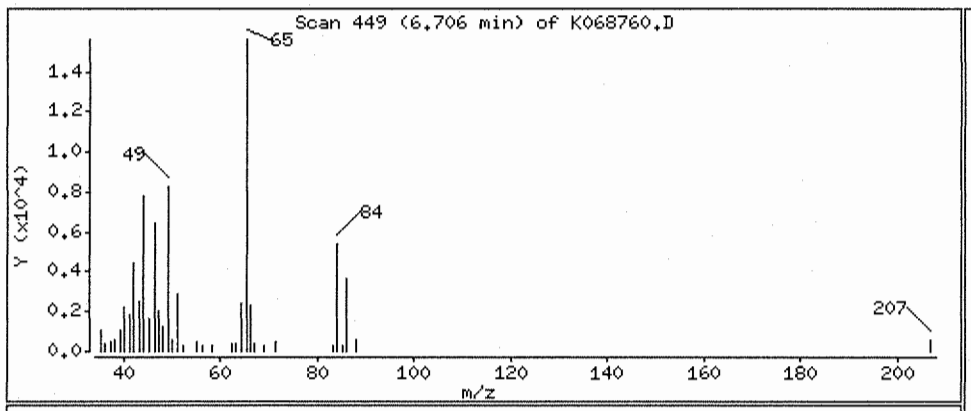
Client ID: T-55-GW-11 Instrument: MSK.i

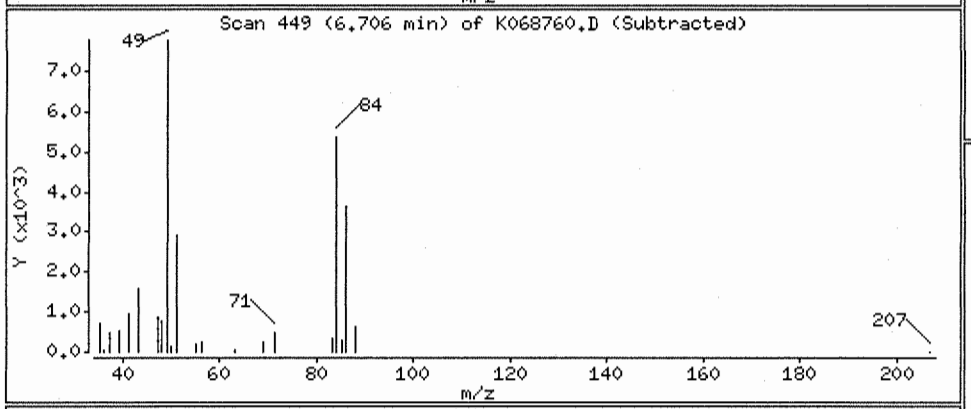
Sample Info: D0602139-006

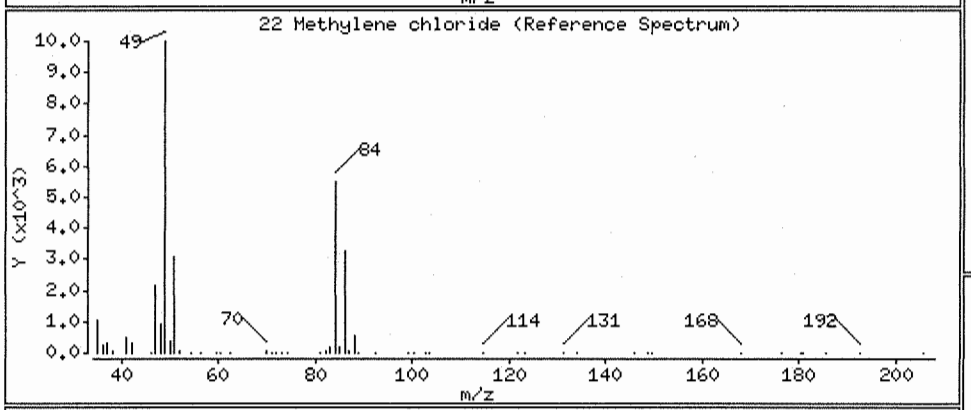
Purge Volume: 10.0 Operator: X

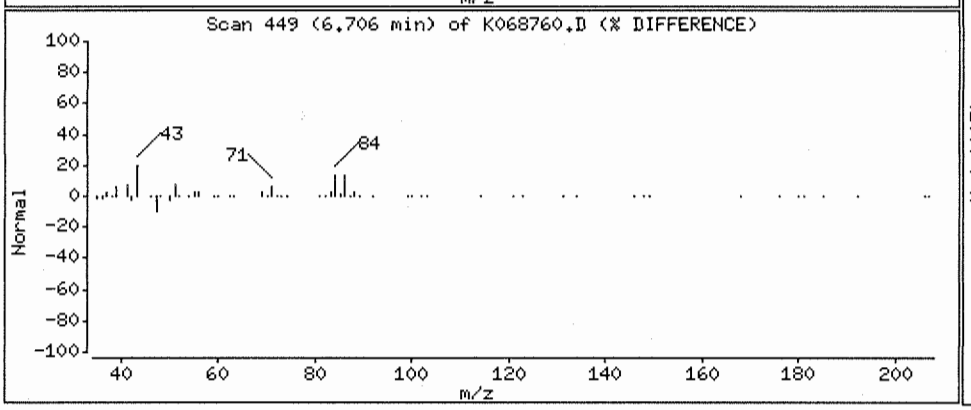
Column phase: DB-624 Column diameter: 0.32

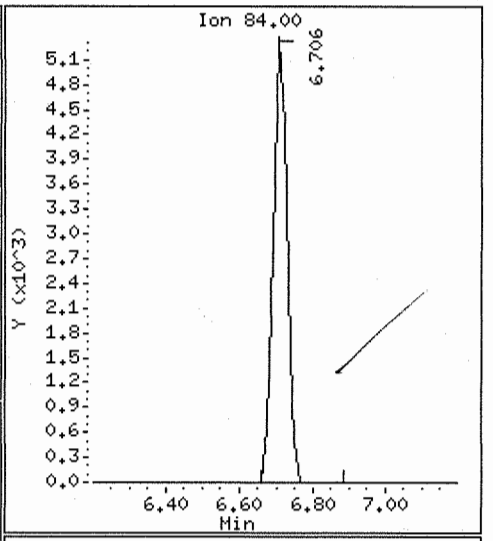
22 Methylene chloride Concentration: 0.545 ug/L

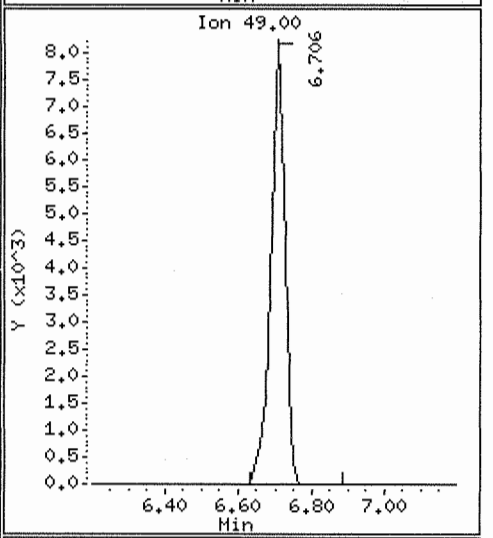


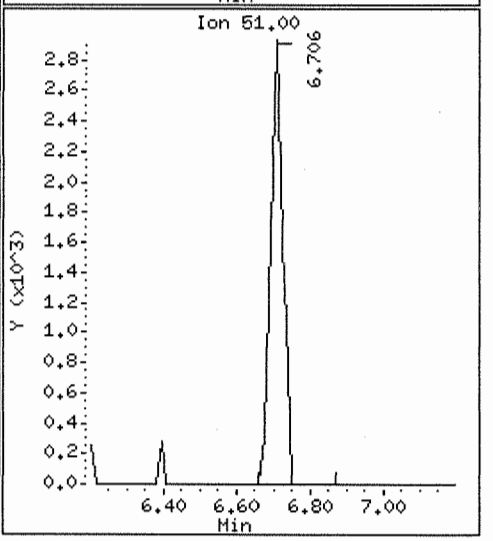












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

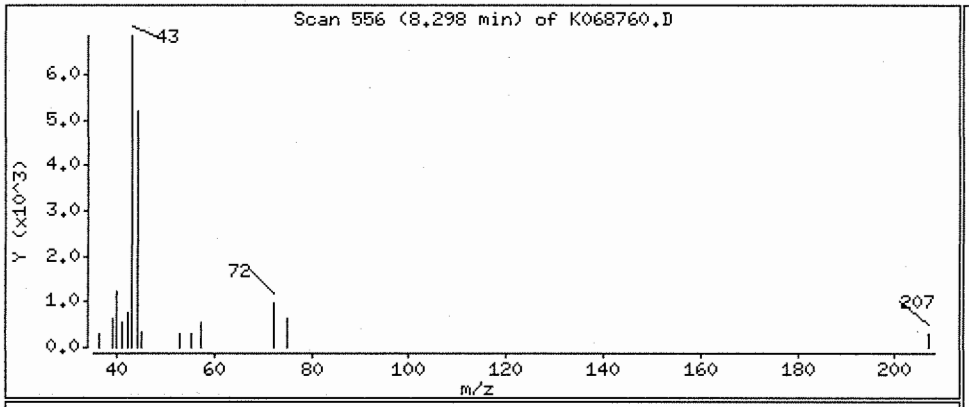
Client ID: T-55-GW-11 Instrument: MSK.i

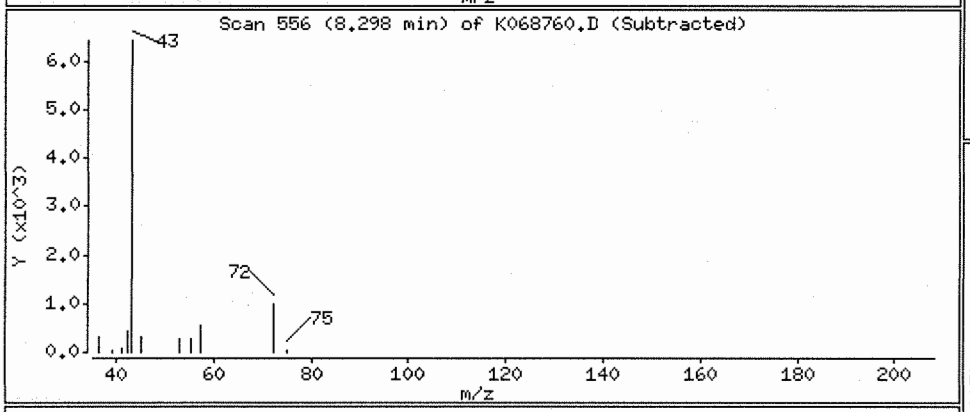
Sample Info: D0602139-006

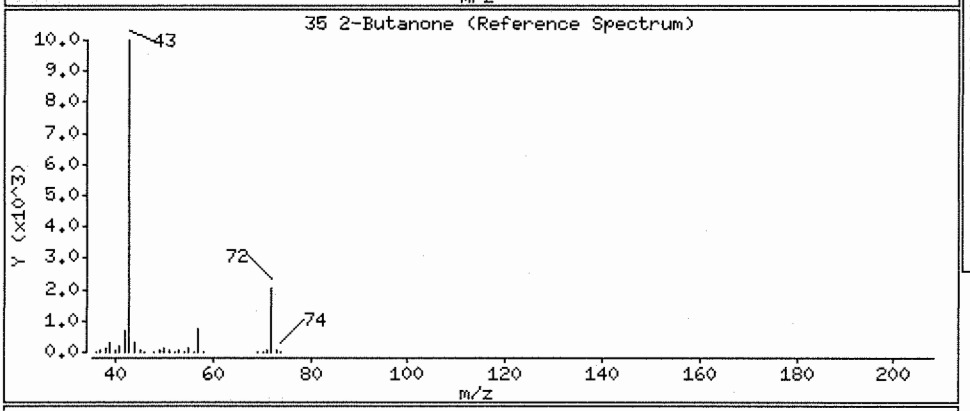
Purge Volume: 10.0 Operator: X

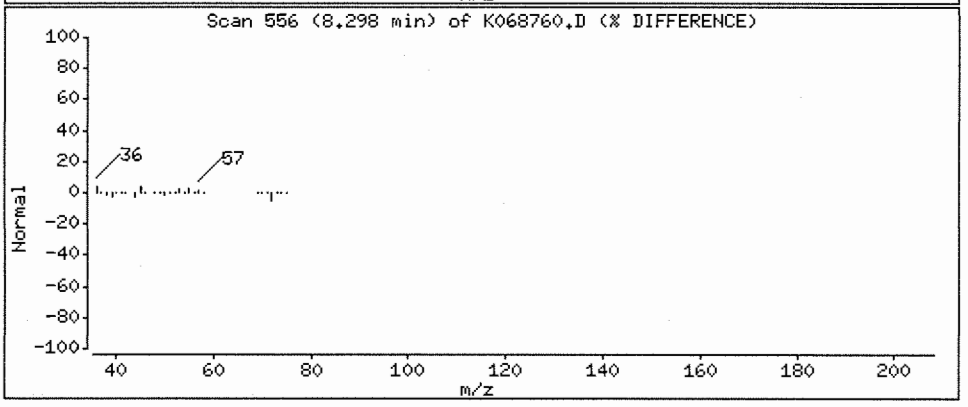
Column phase: DB-624 Column diameter: 0.32

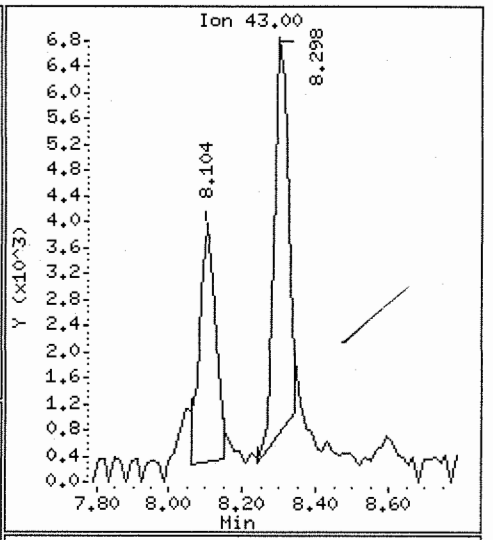
35 2-Butanone Concentration: 2.25 ug/L

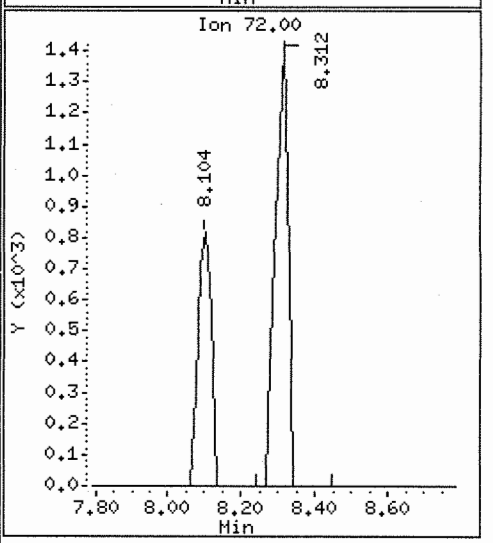












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

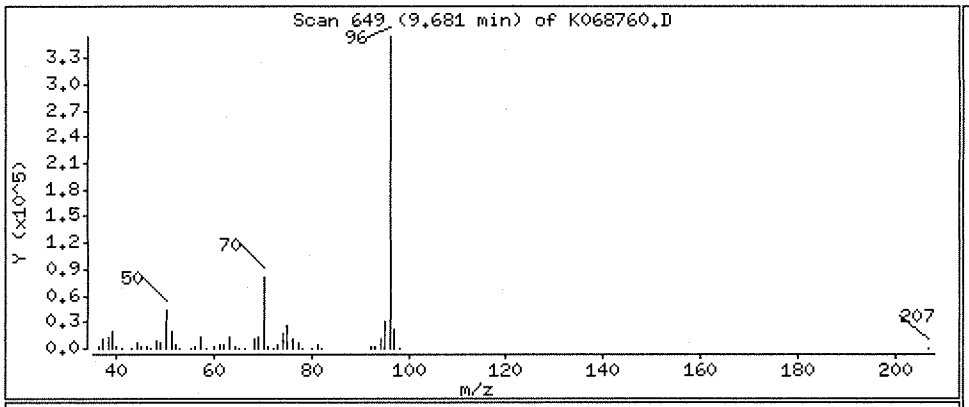
Client ID: T-55-GW-11 Instrument: MSK.i

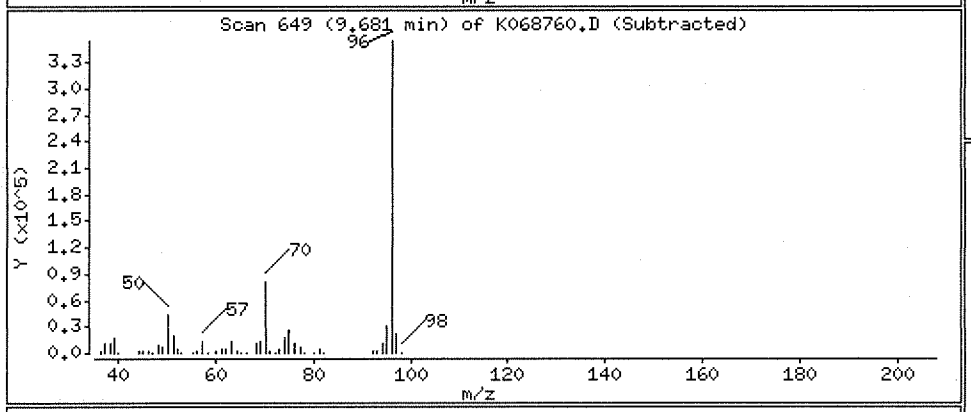
Sample Info: D0602139-006

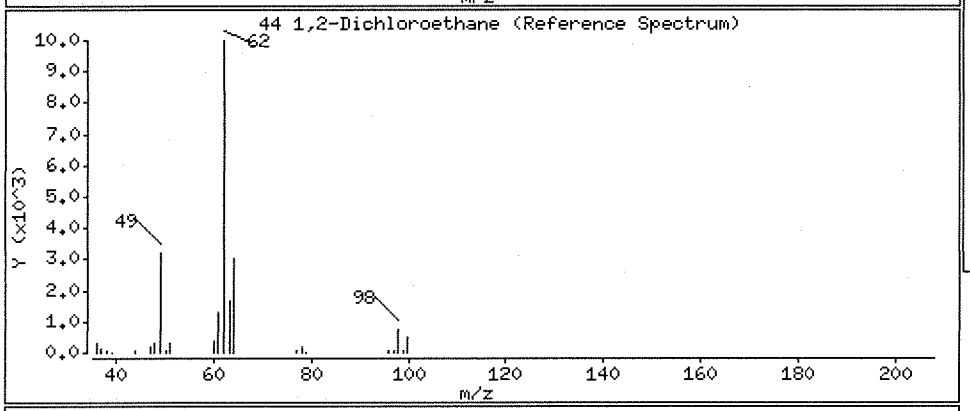
Purge Volume: 10.0 Operator: X

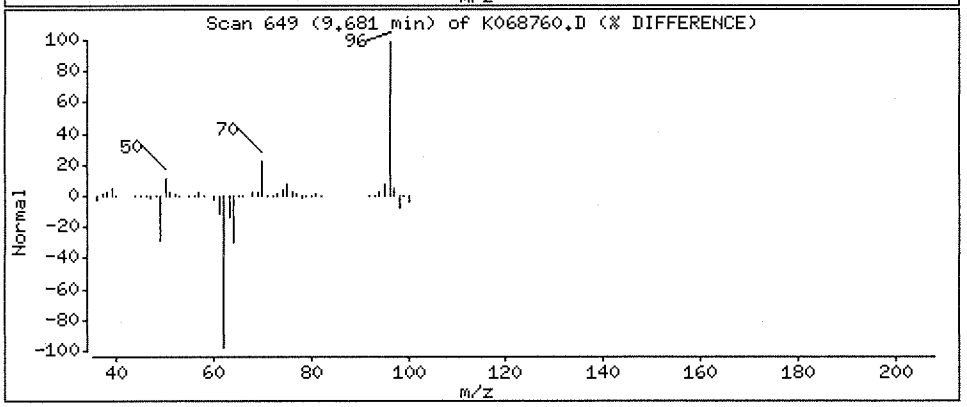
Column phase: DB-624 Column diameter: 0.32

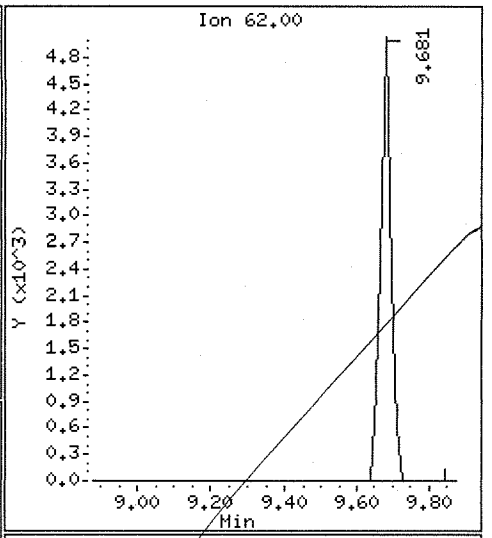
44 1,2-Dichloroethane Concentration: 0.359 ug/L

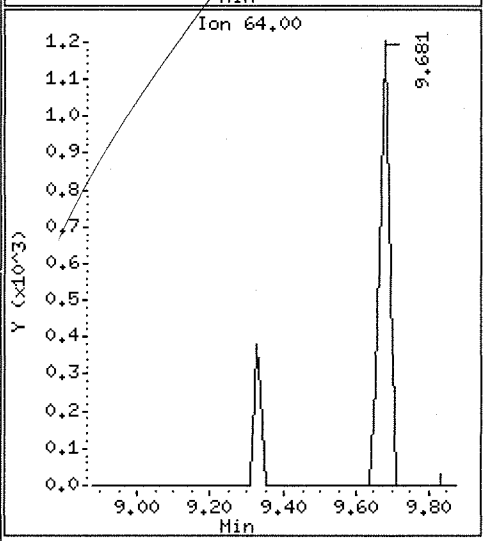












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

Client ID: T-55-GW-11

Instrument: MSK.i

Sample Info: D0602139-006

Purge Volume: 10.0

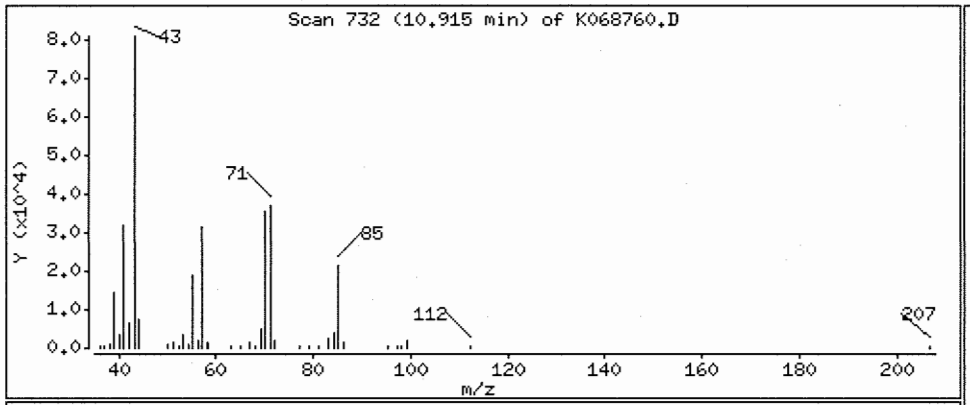
Operator: X

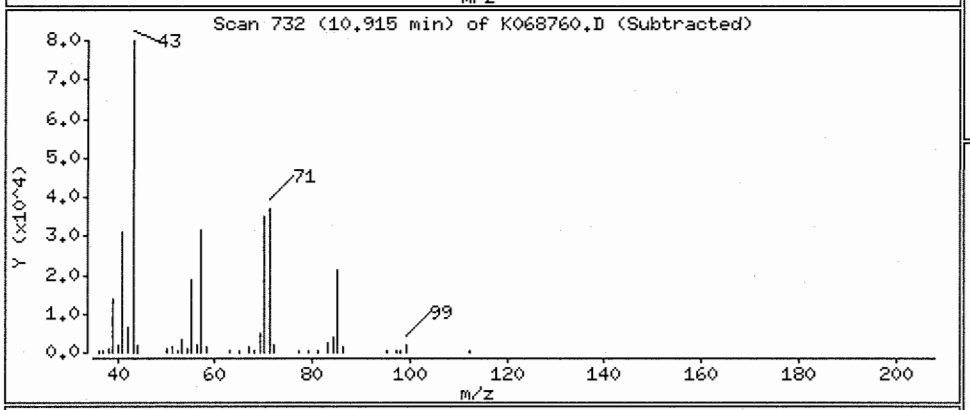
Column phase: DB-624

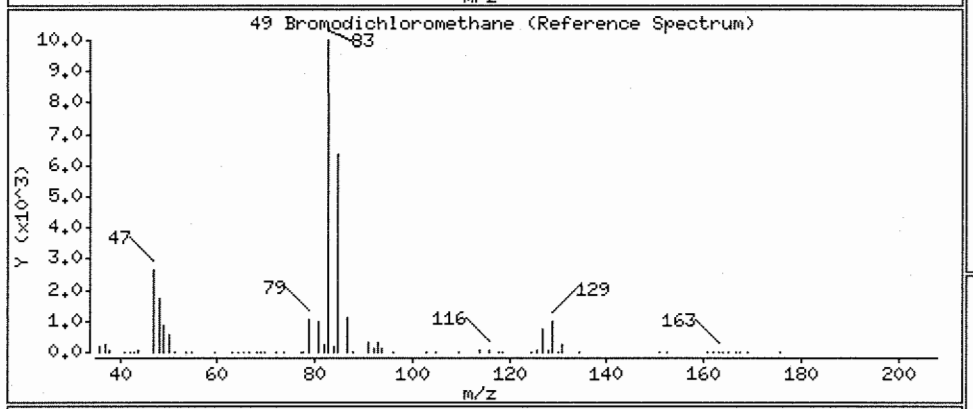
Column diameter: 0.32

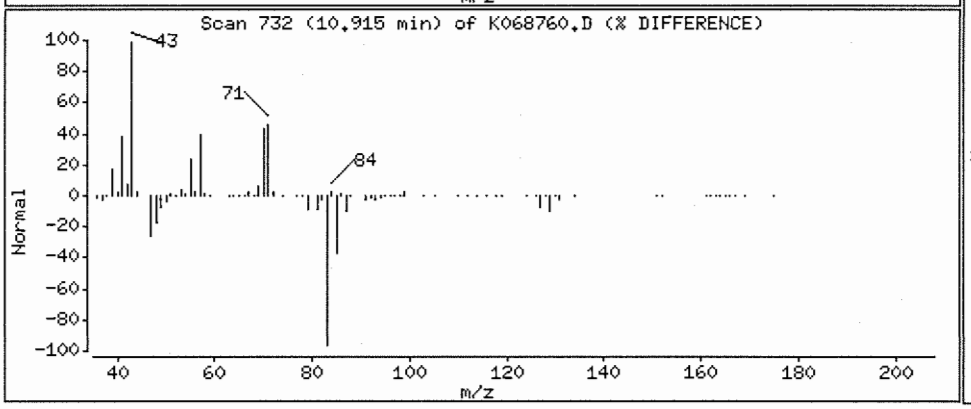
49 Bromodichloromethane

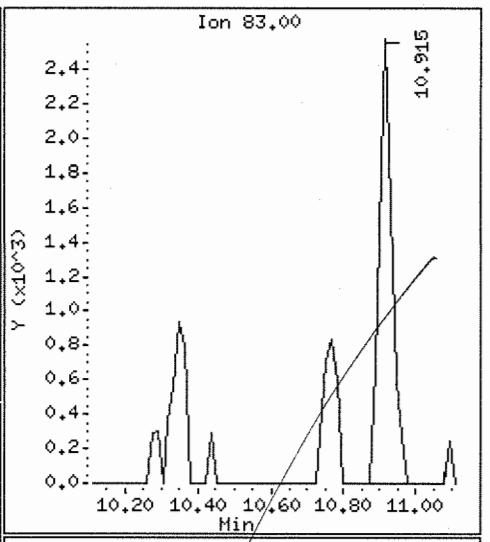
Concentration: 0.213 ug/L

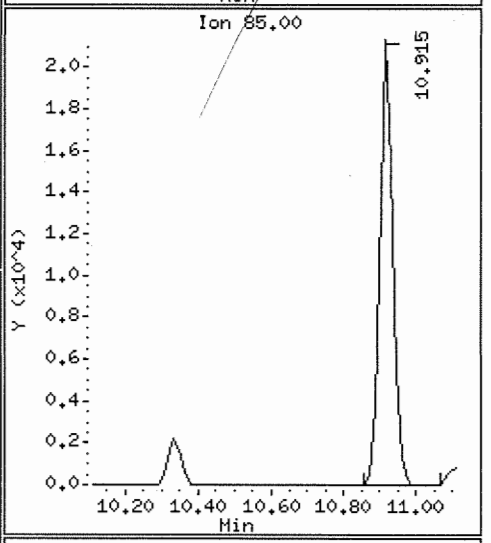


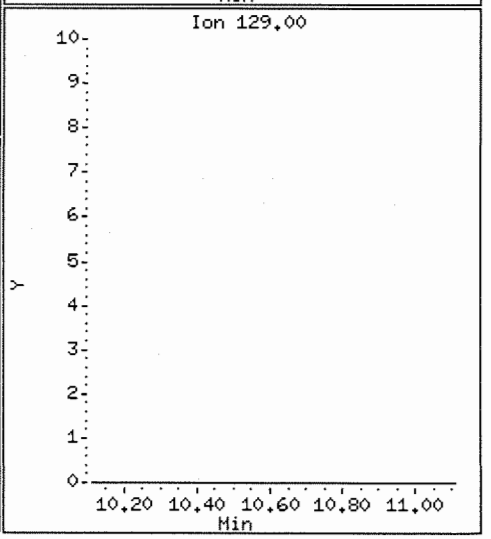












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

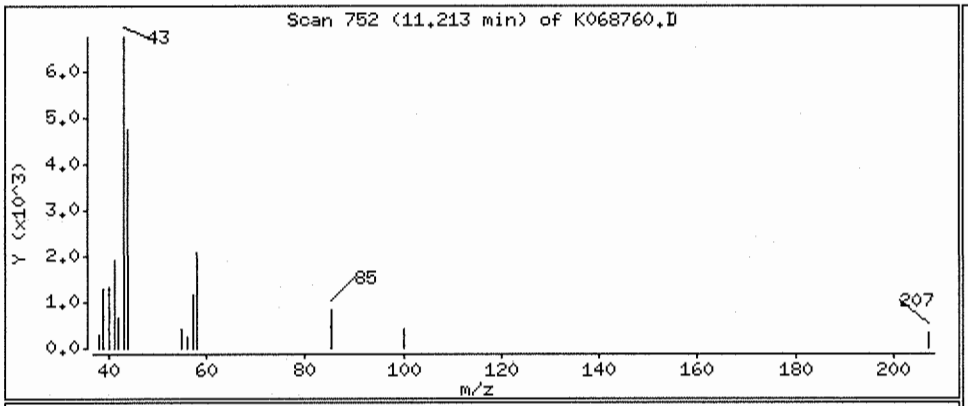
Client ID: T-55-GW-11 Instrument: MSK.i

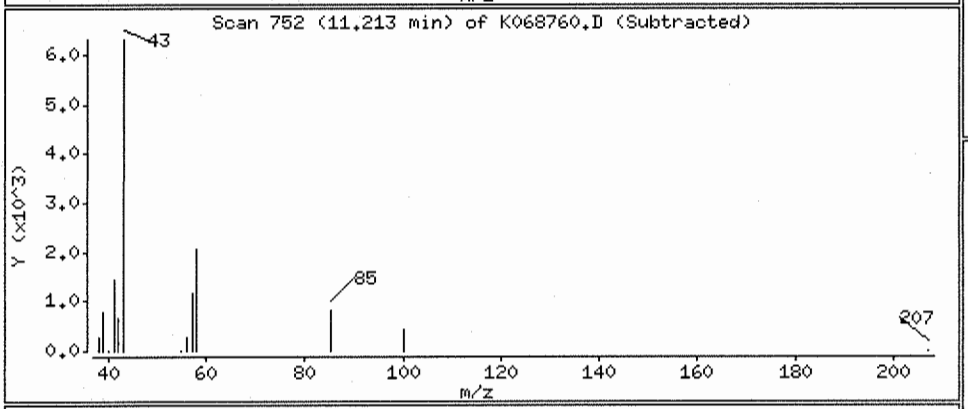
Sample Info: D0602139-006

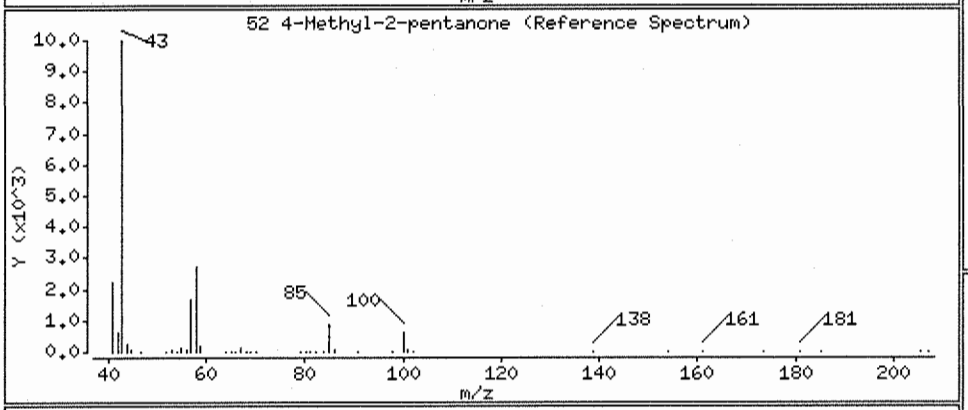
Purge Volume: 10.0 Operator: X

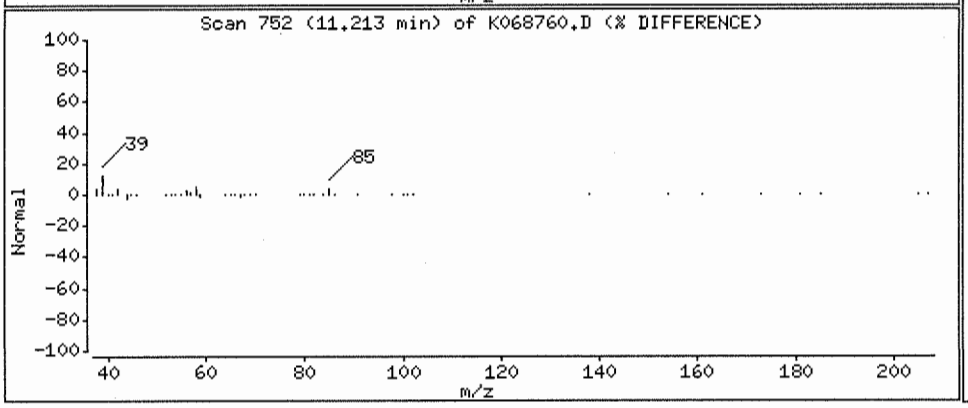
Column phase: DB-624 Column diameter: 0.32

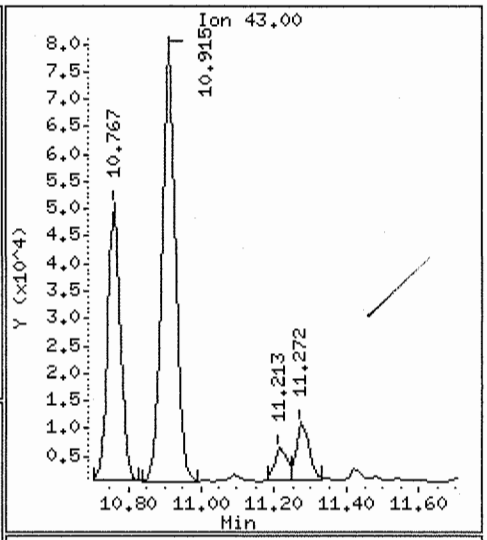
52 4-Methyl-2-pentanone Concentration: 0.792 ug/L

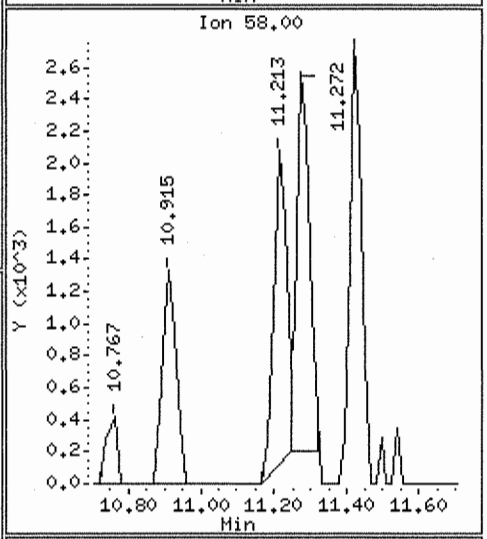


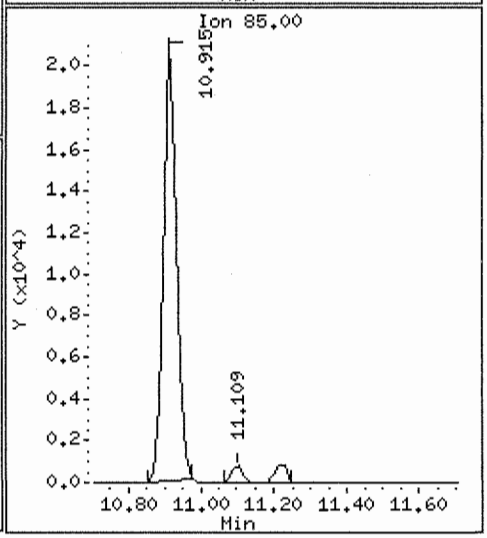












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

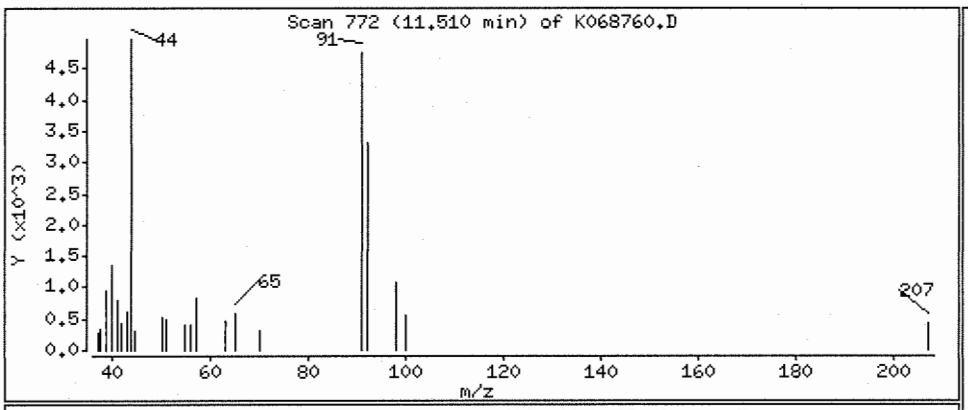
Client ID: T-55-GW-11 Instrument: MSK.i

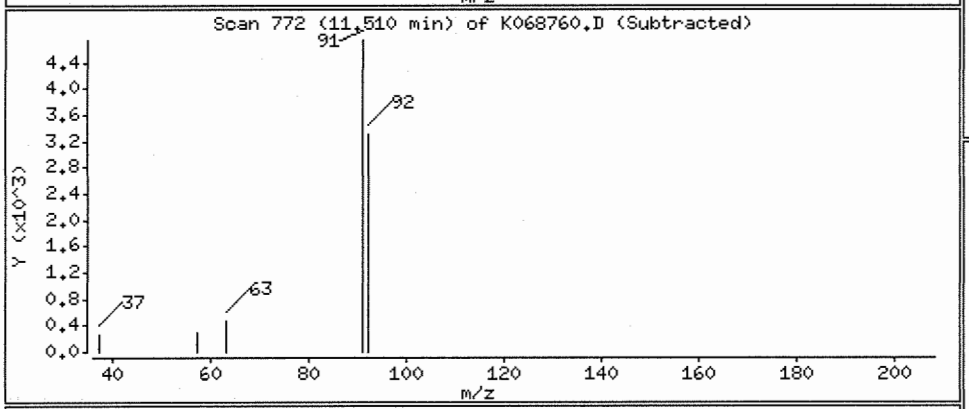
Sample Info: D0602139-006

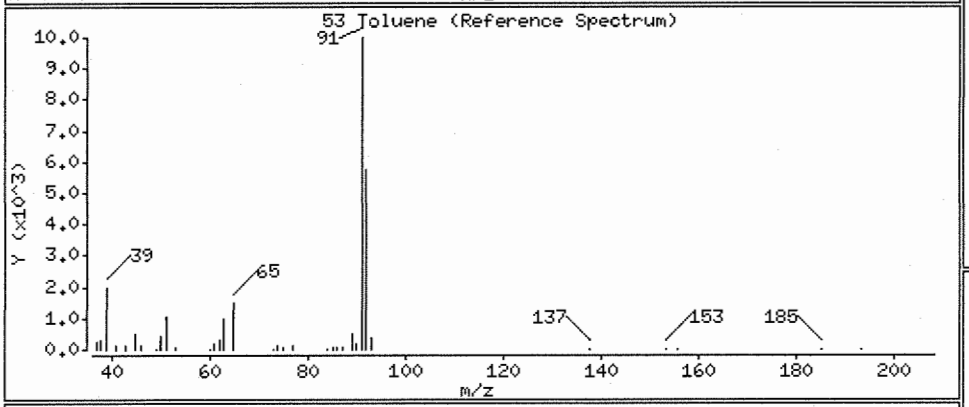
Purge Volume: 10.0 Operator: X

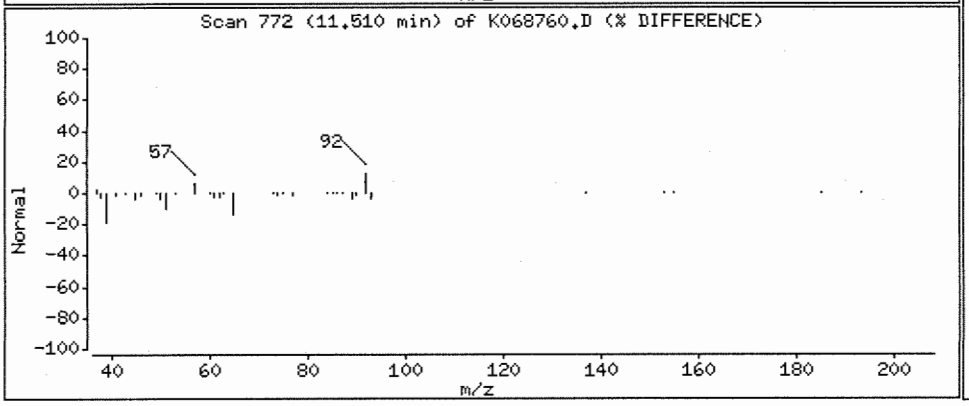
Column phase: DB-624 Column diameter: 0.32

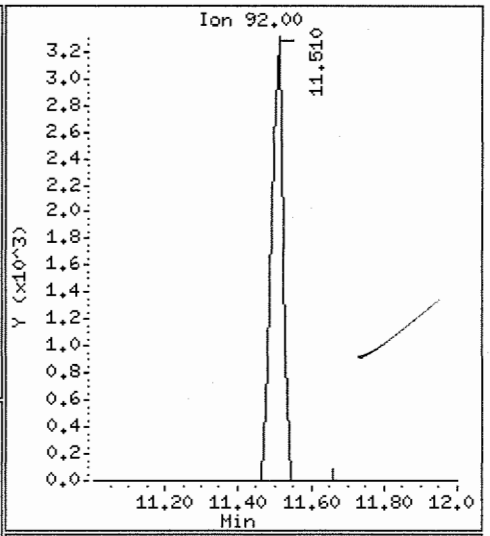
53 Toluene Concentration: 0.134 ug/L

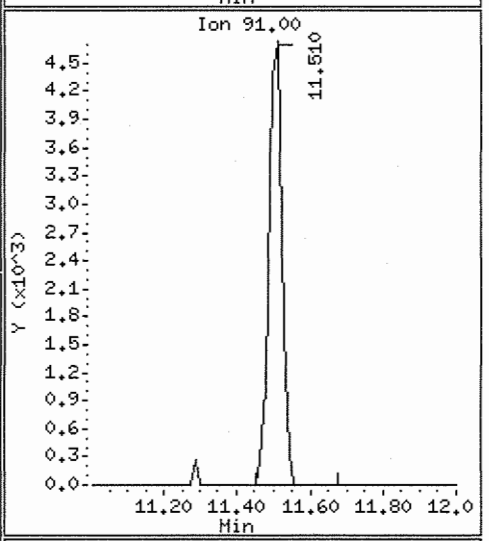


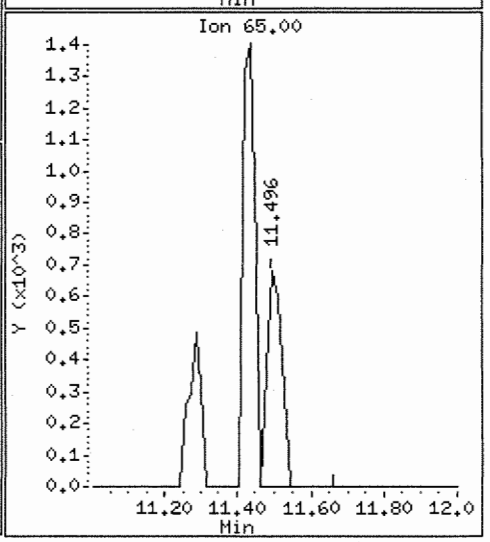












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

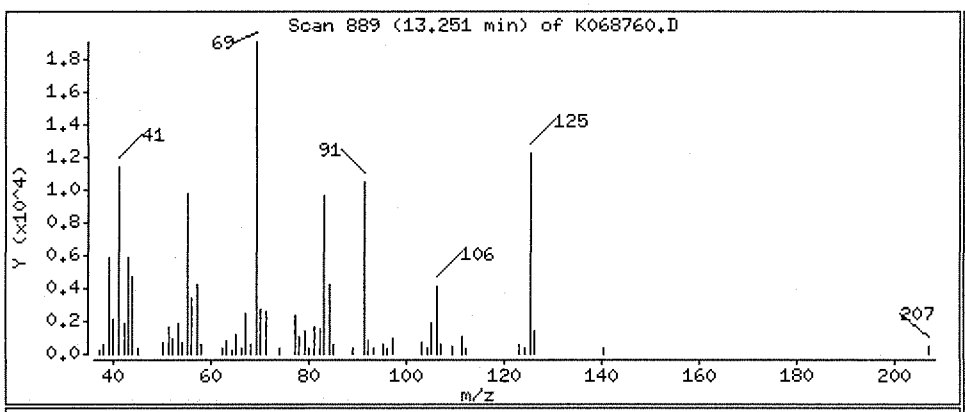
Client ID: T-55-GW-11 Instrument: MSK.i

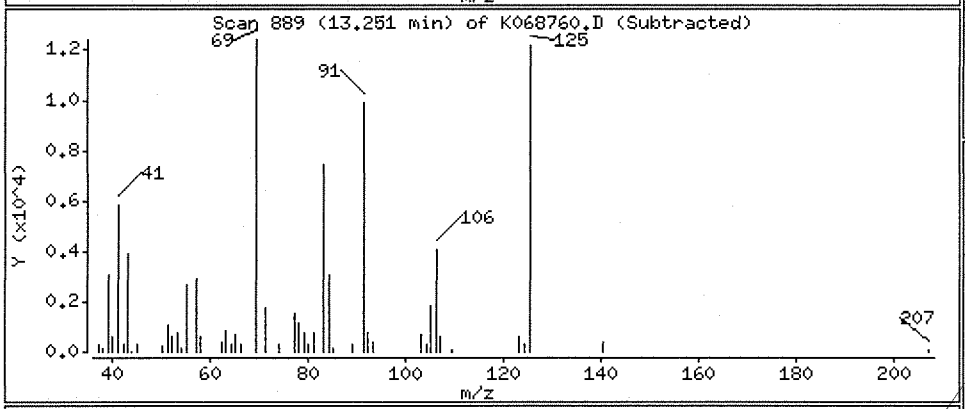
Sample Info: D0602139-006

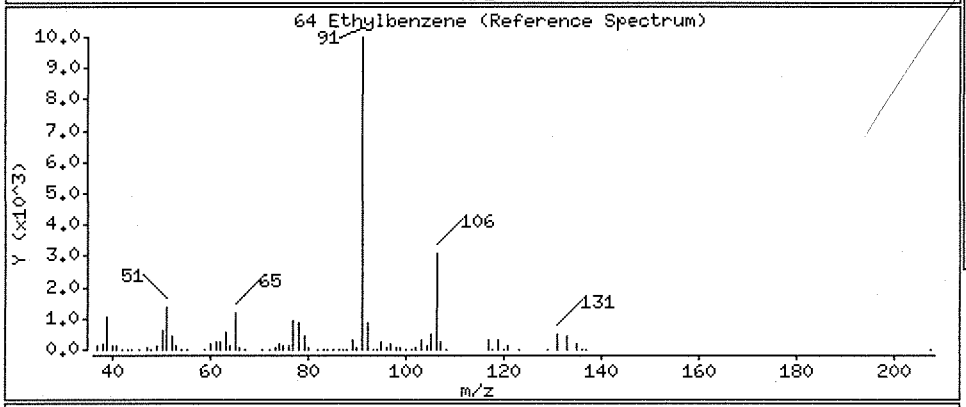
Purge Volume: 10.0 Operator: X

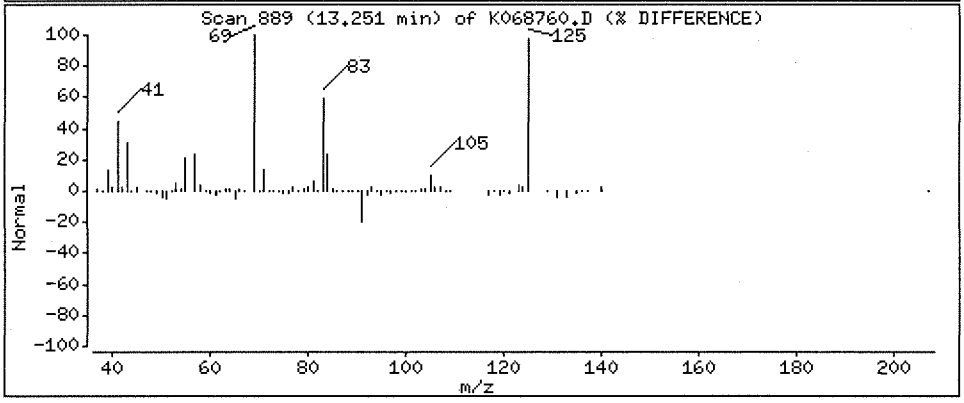
Column phase: DB-624 Column diameter: 0.32

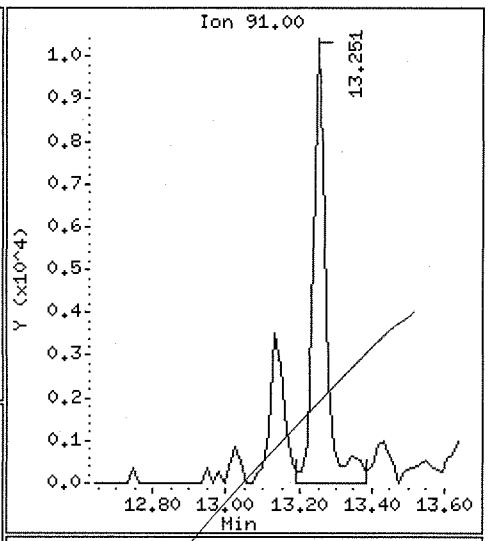
64 Ethylbenzene Concentration: 0.278 ug/L

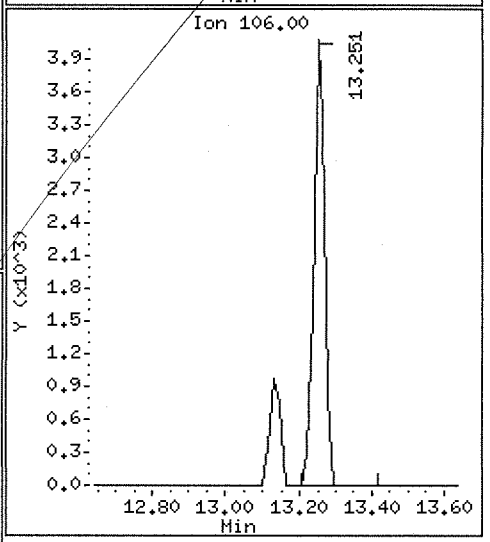












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

Client ID: T-55-GW-11

Instrument: MSK.i

Sample Info: D0602139-006

Purge Volume: 10.0

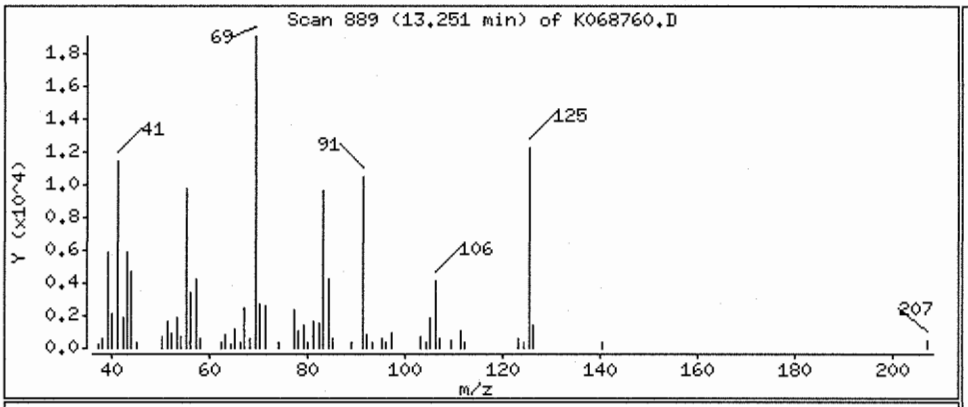
Operator: X

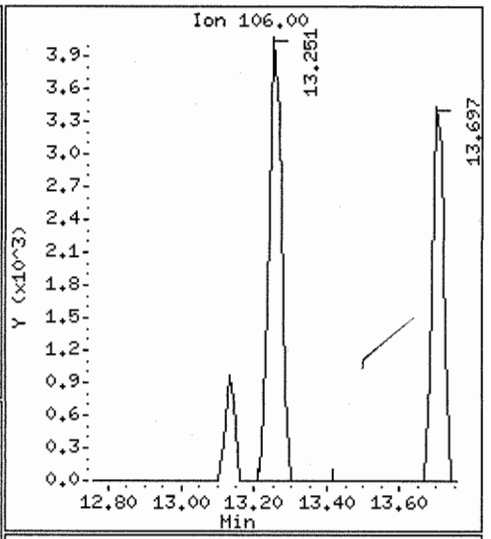
Column phase: DB-624

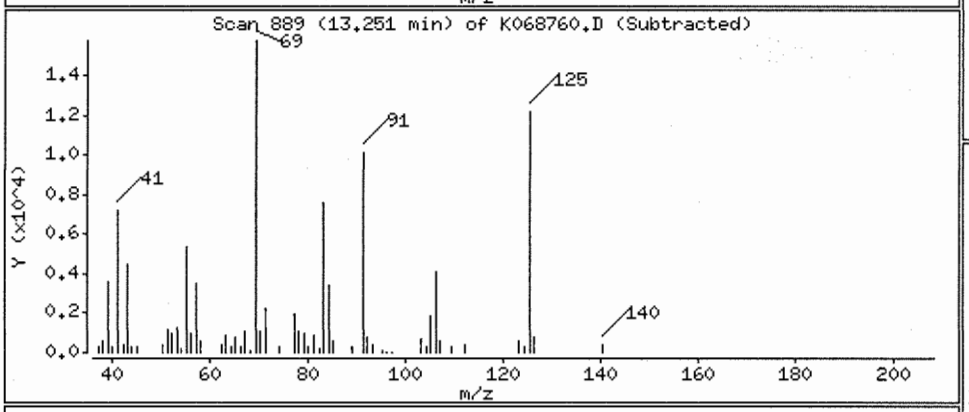
Column diameter: 0.32

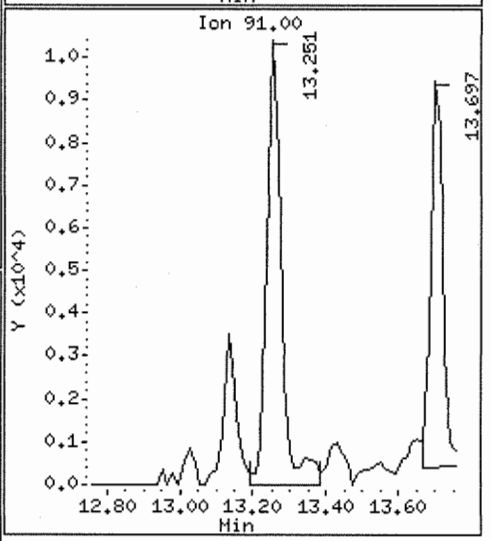
65 m-,p-Xylene

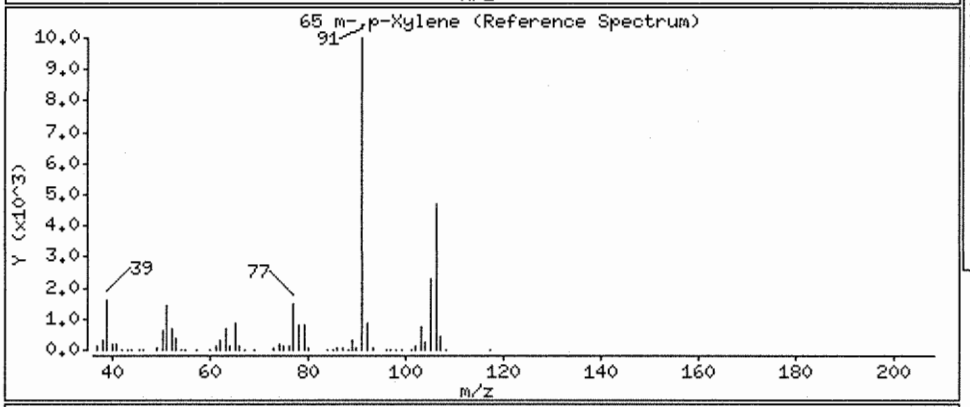
Concentration: 0.275 ug/L

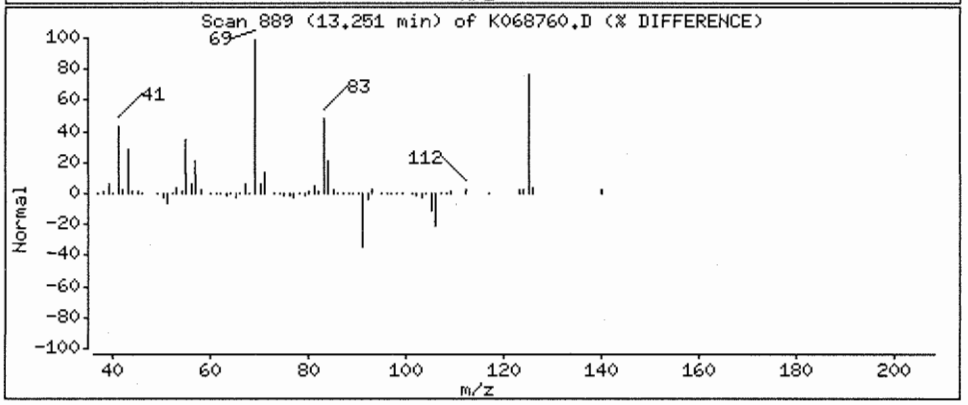












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

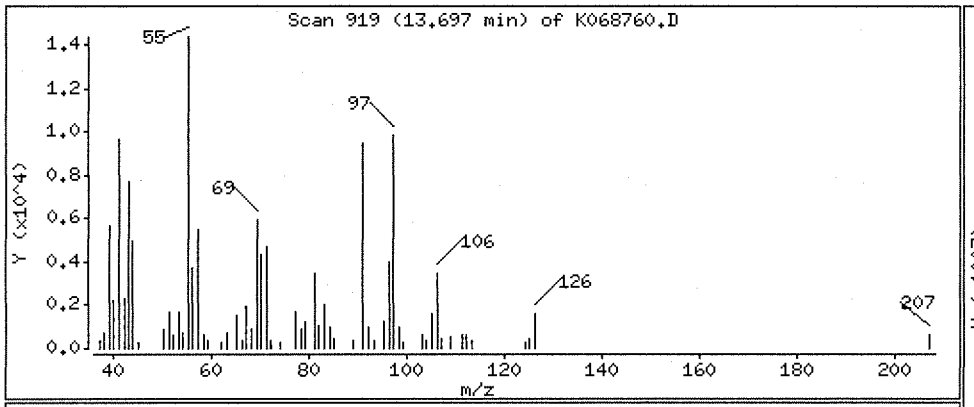
Client ID: T-55-GW-11 Instrument: MSK.i

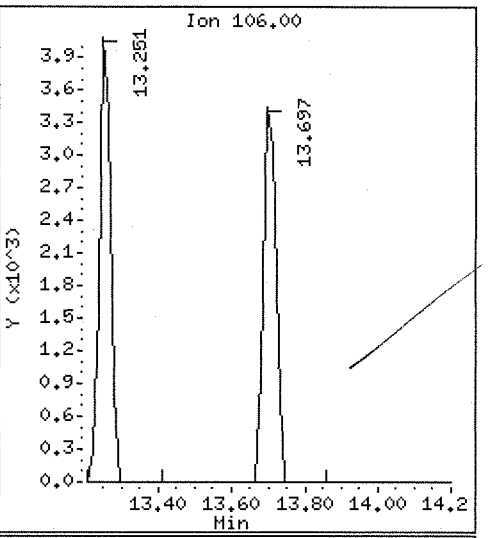
Sample Info: D0602139-006

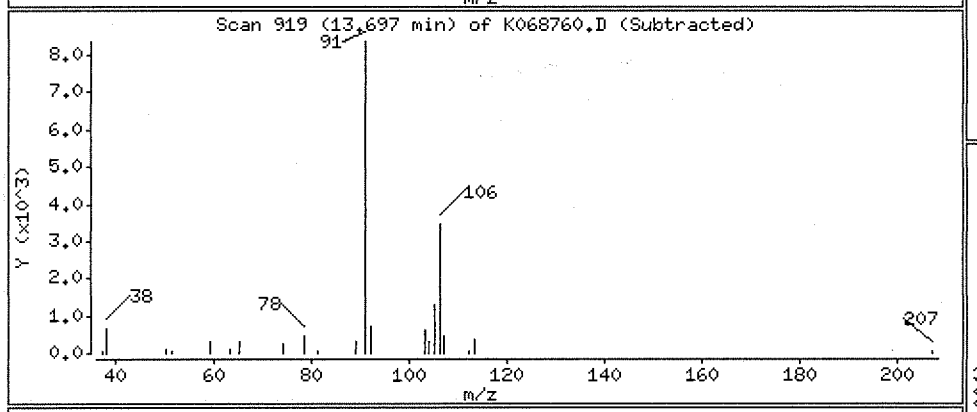
Purge Volume: 10.0 Operator: X

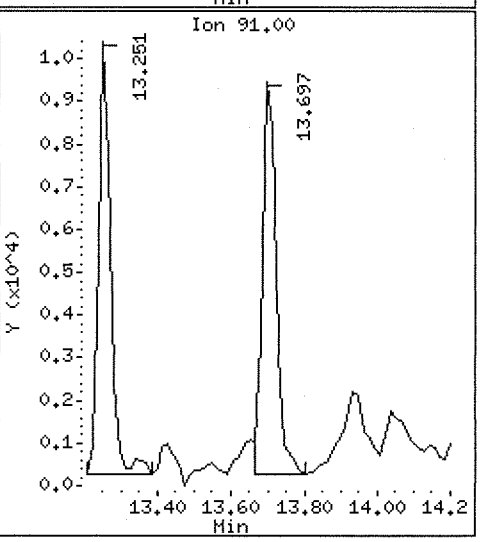
Column phase: DB-624 Column diameter: 0.32

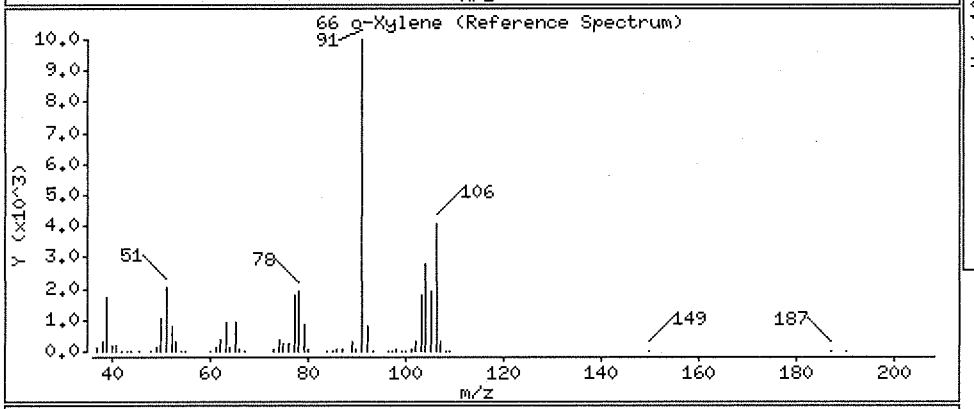
66 o-Xylene Concentration: 0.242 ug/L

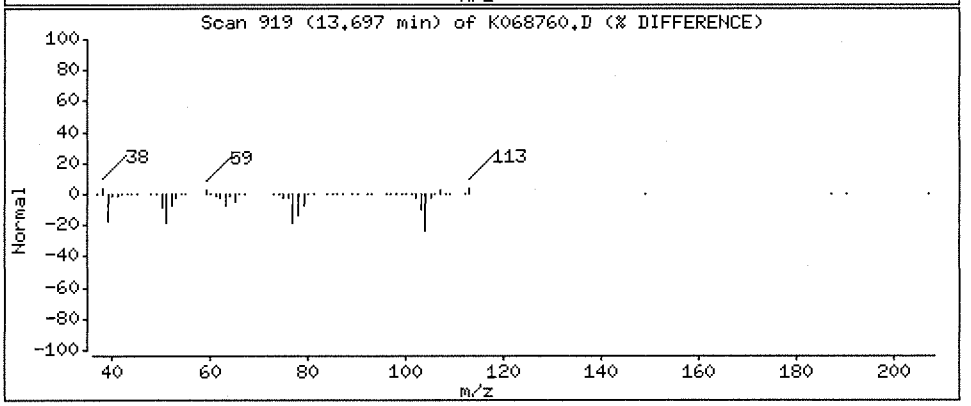












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

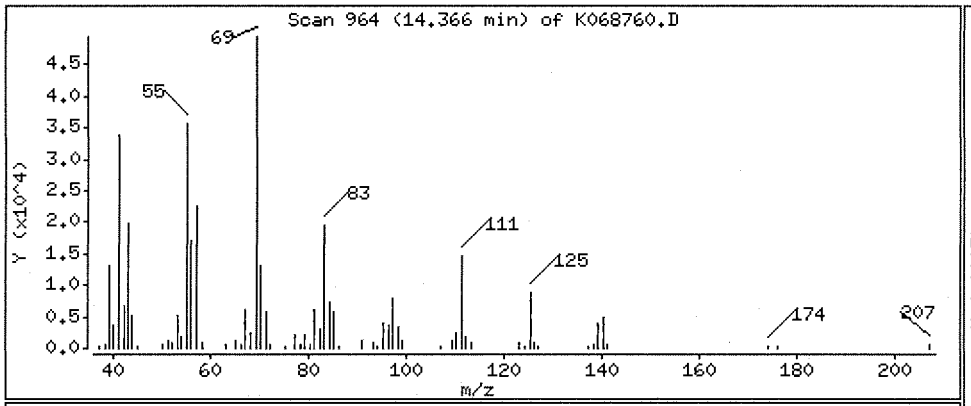
Client ID: T-55-GW-11 Instrument: MSK.i

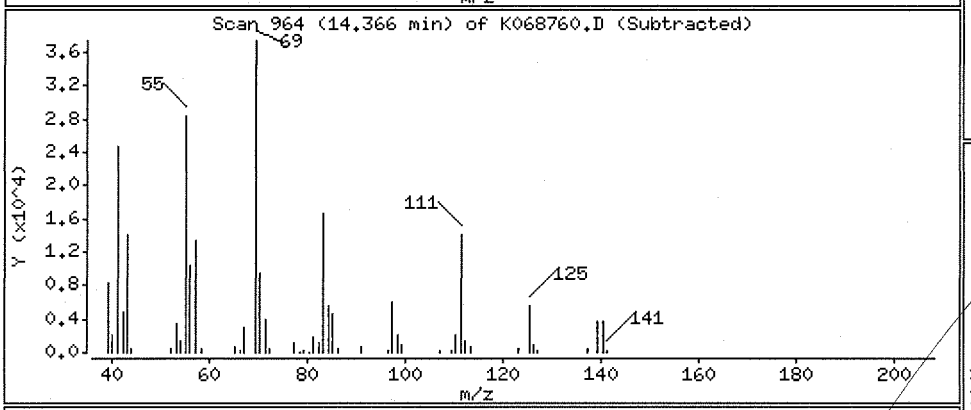
Sample Info: D0602139-006

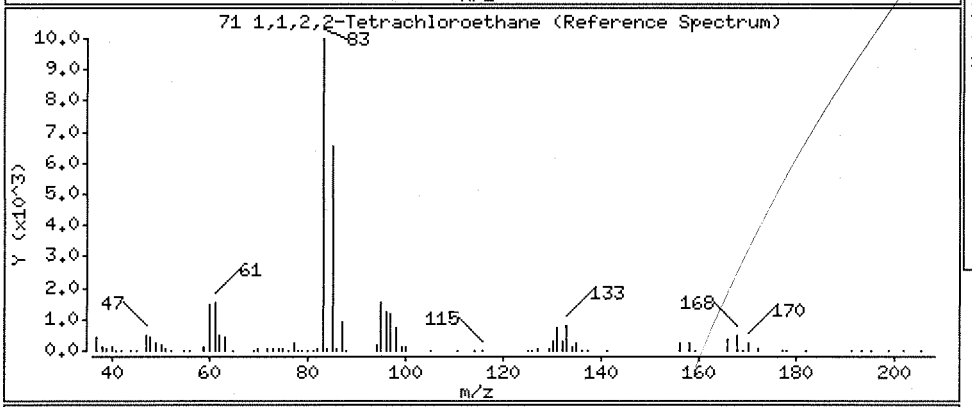
Purge Volume: 10.0 Operator: X

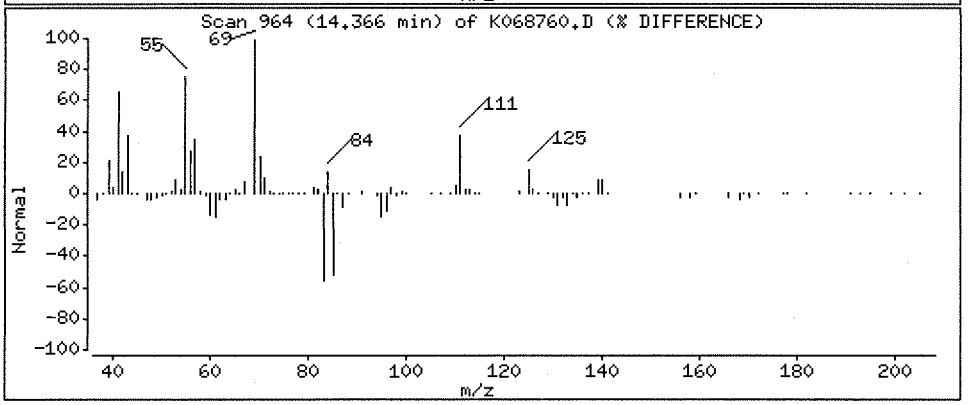
Column phase: DB-624 Column diameter: 0.32

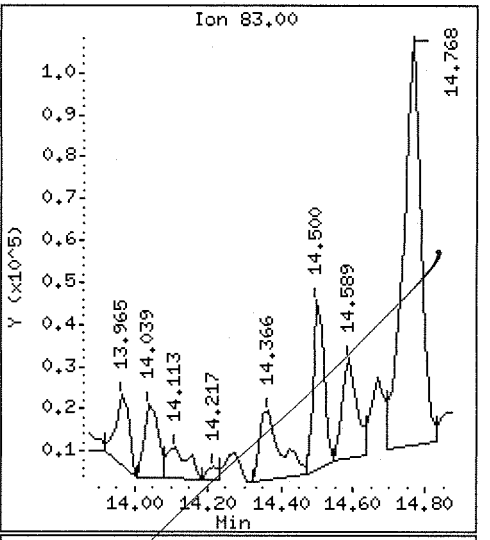
71 1,1,2,2-Tetrachloroethane Concentration: 2.93 ug/L

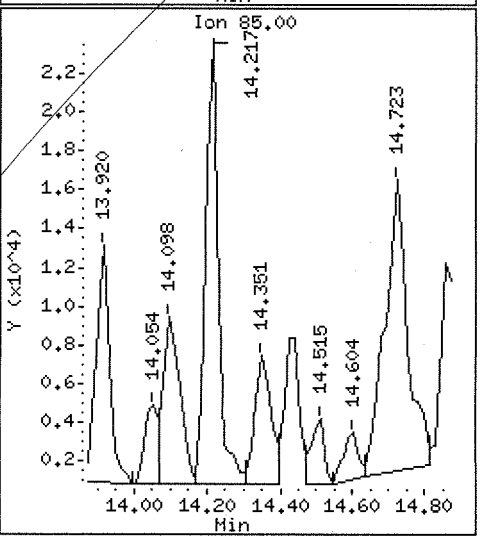












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

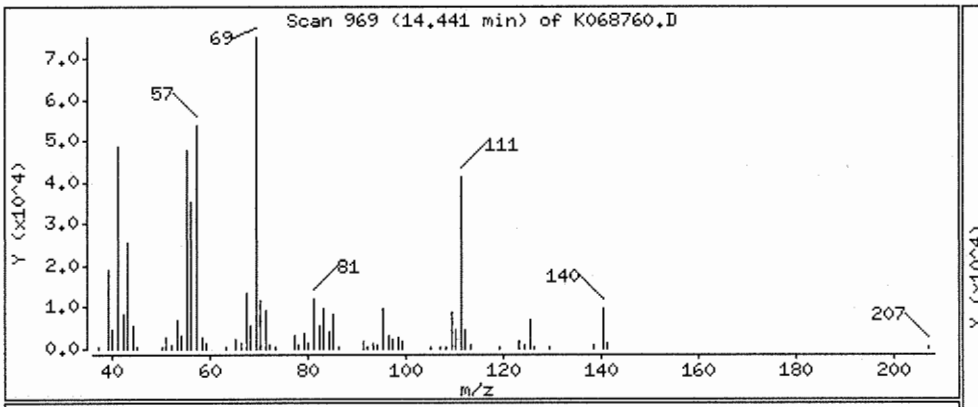
Client ID: T-55-GW-11 Instrument: MSK.i

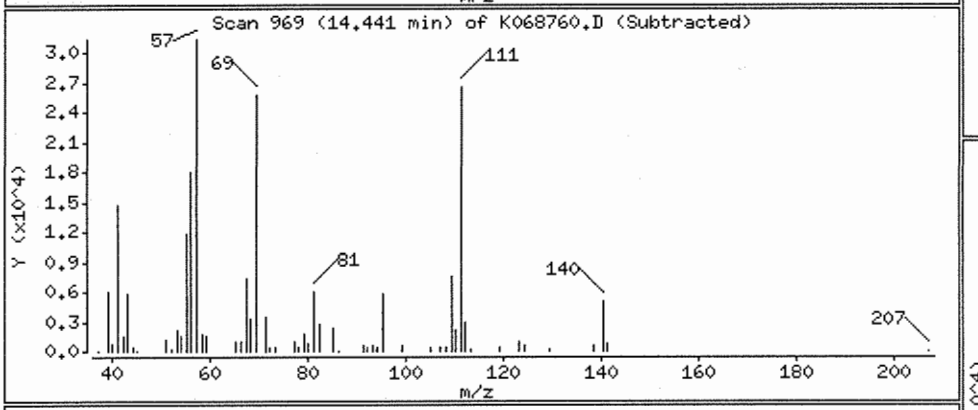
Sample Info: D0602139-006

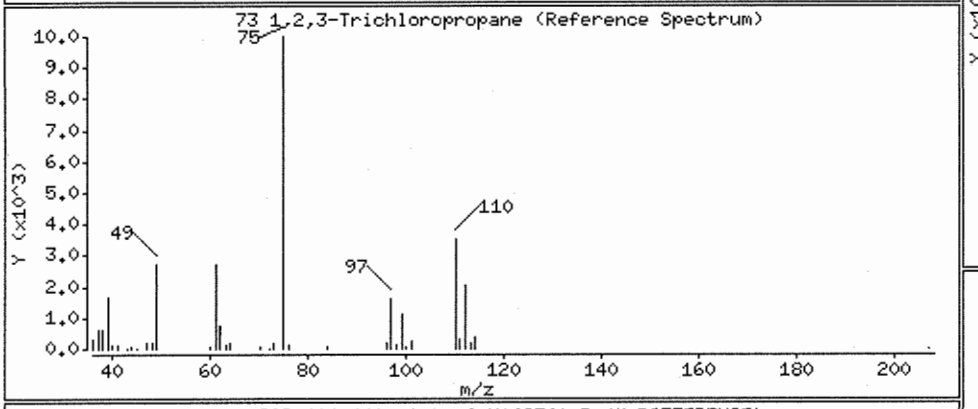
Purge Volume: 10.0 Operator: X

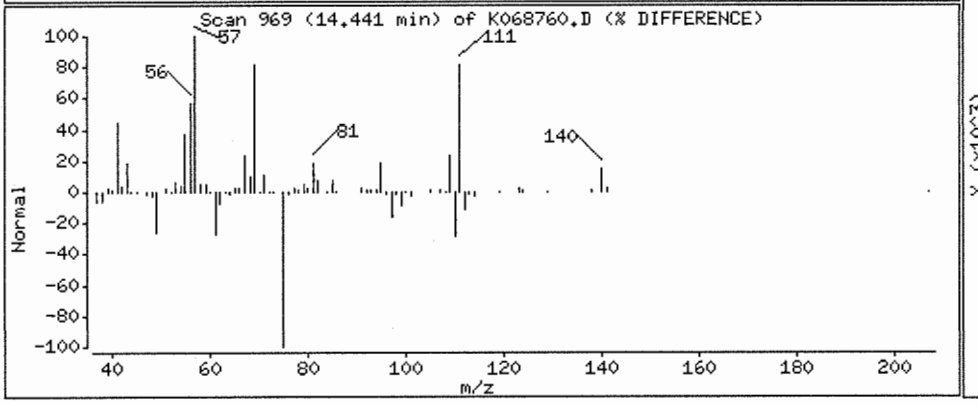
Column phase: DB-624 Column diameter: 0.32

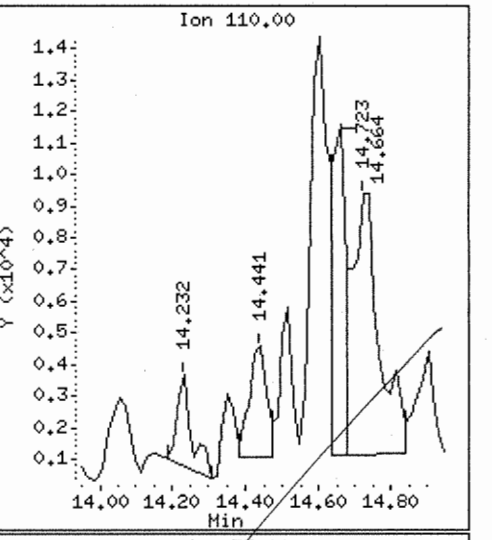
73 1,2,3-Trichloropropane Concentration: 2.26 ug/L

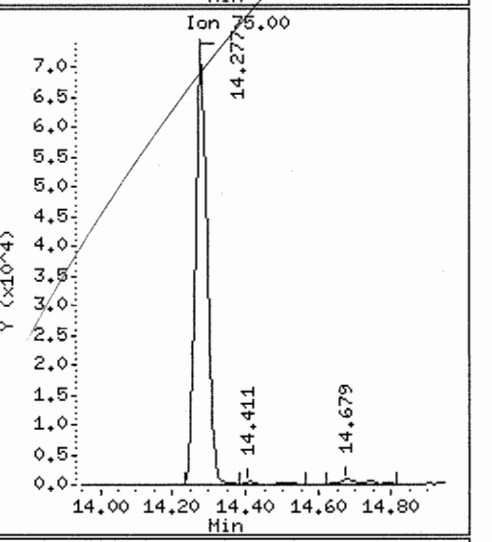


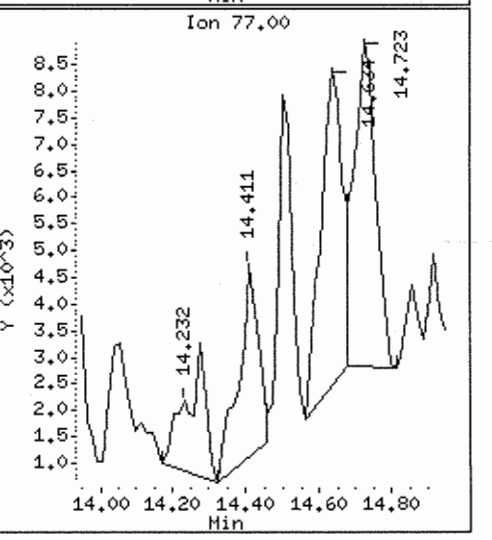












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

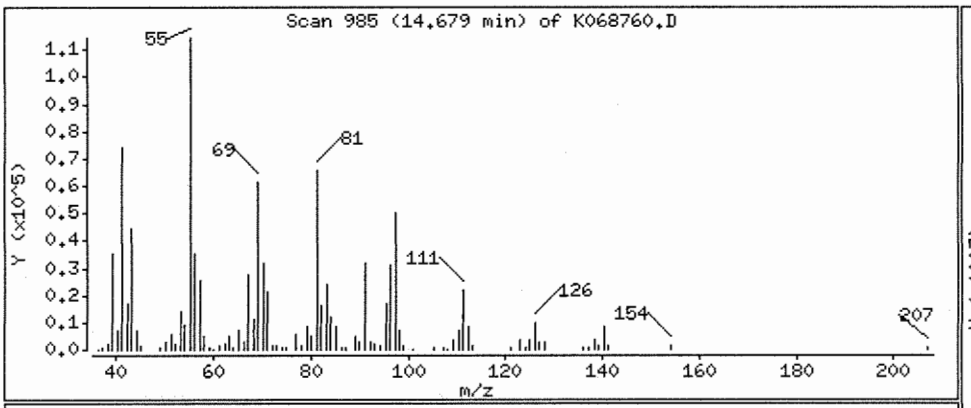
Client ID: T-55-GW-11 Instrument: MSK.i

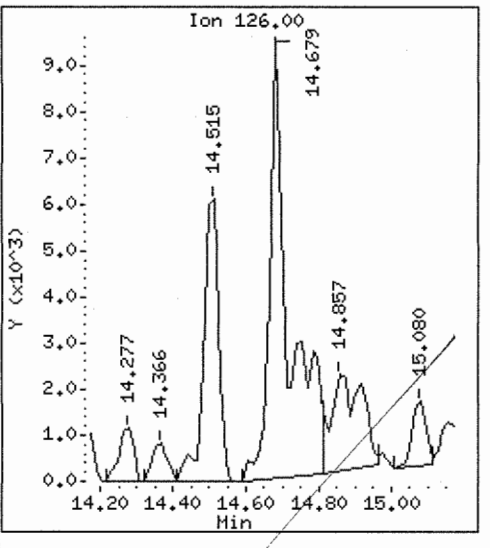
Sample Info: D0602139-006

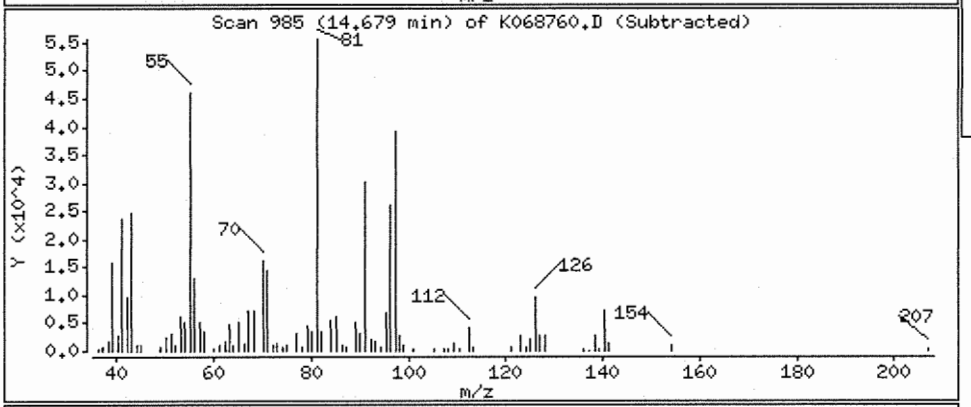
Purge Volume: 10.0 Operator: X

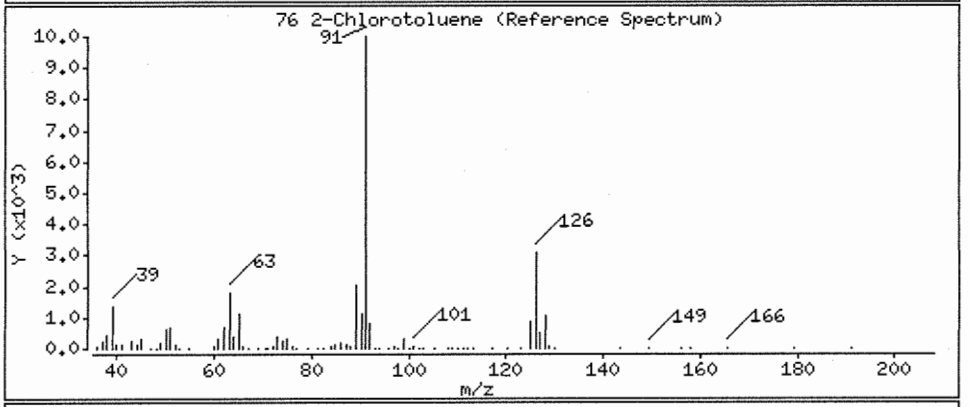
Column phase: DB-624 Column diameter: 0.32

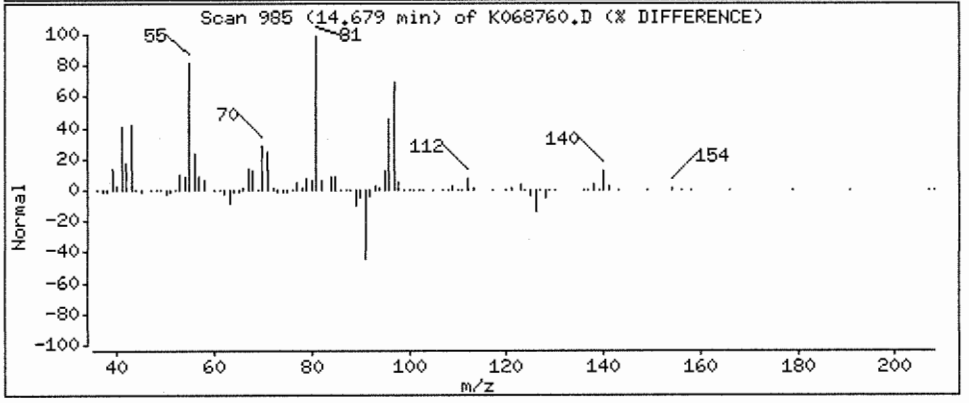
76 2-Chlorotoluene Concentration: 1.69 ug/L











Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

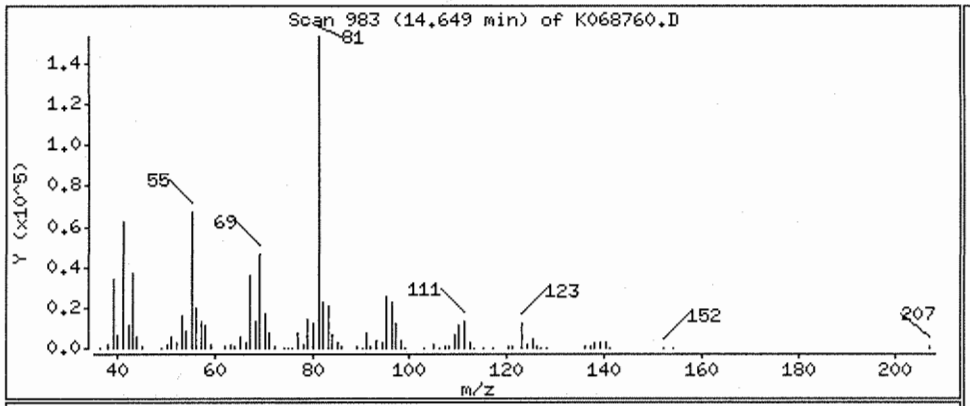
Client ID: T-55-GW-11 Instrument: MSK.i

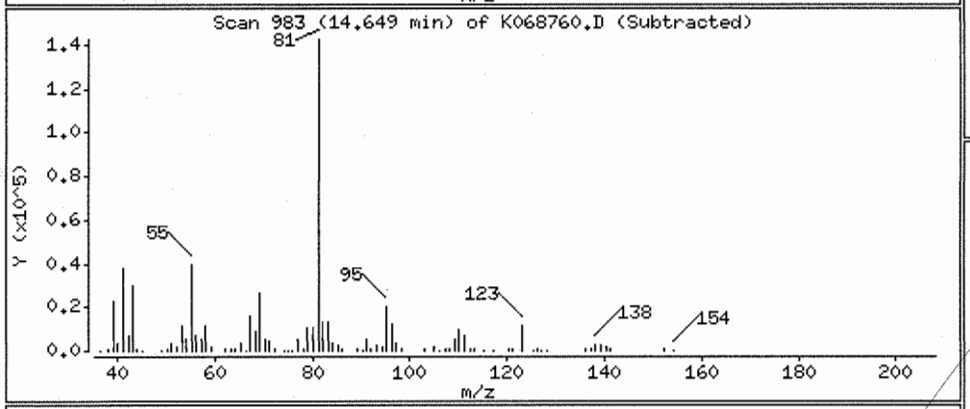
Sample Info: D0602139-006

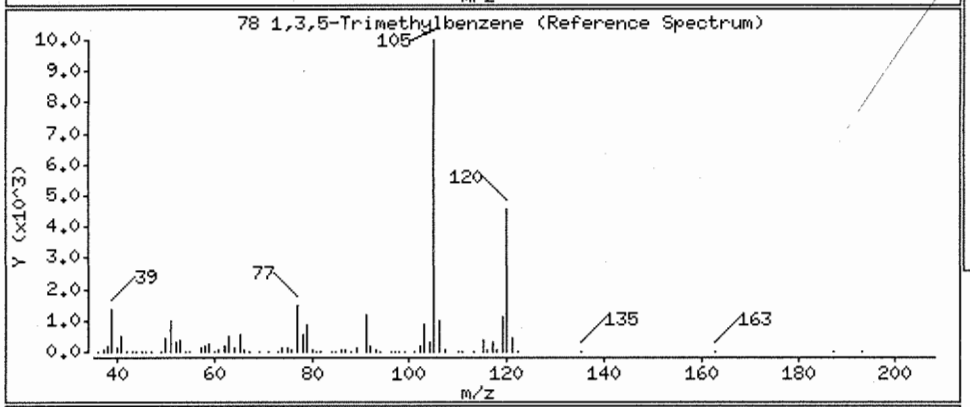
Purge Volume: 10.0 Operator: X

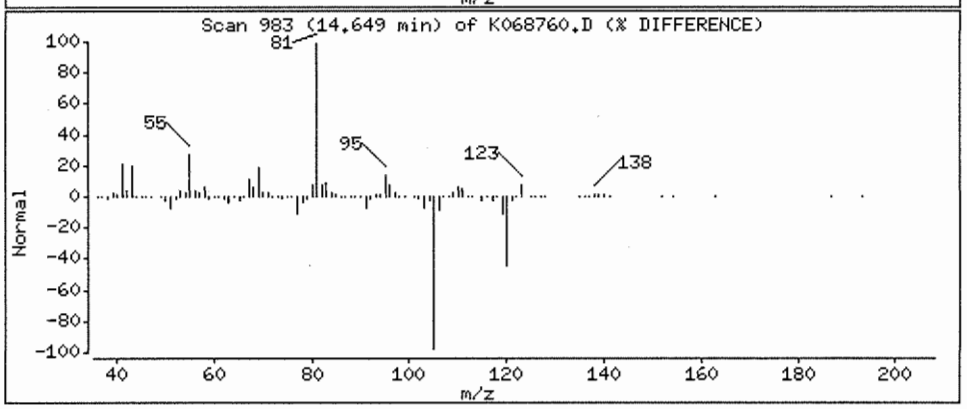
Column phase: DB-624 Column diameter: 0.32

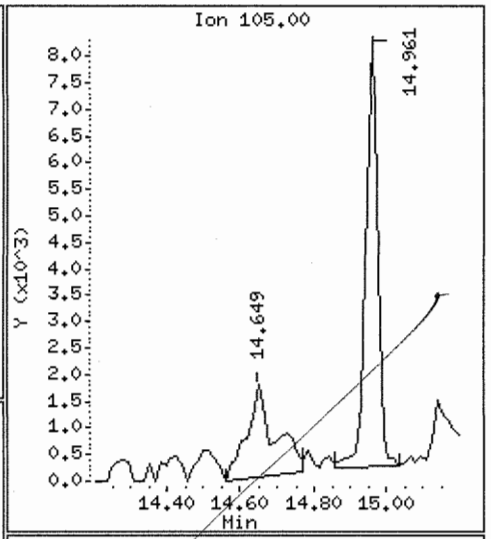
78 1,3,5-Trimethylbenzene Concentration: 0.126 ug/L

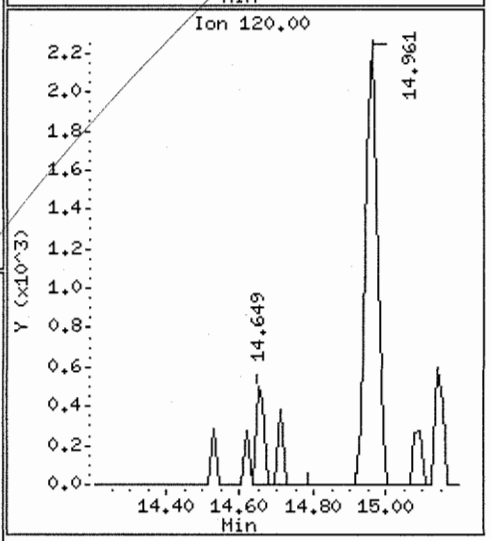












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

Client ID: T-55-GW-11

Instrument: MSK.i

Sample Info: D0602139-006

Purge Volume: 10.0

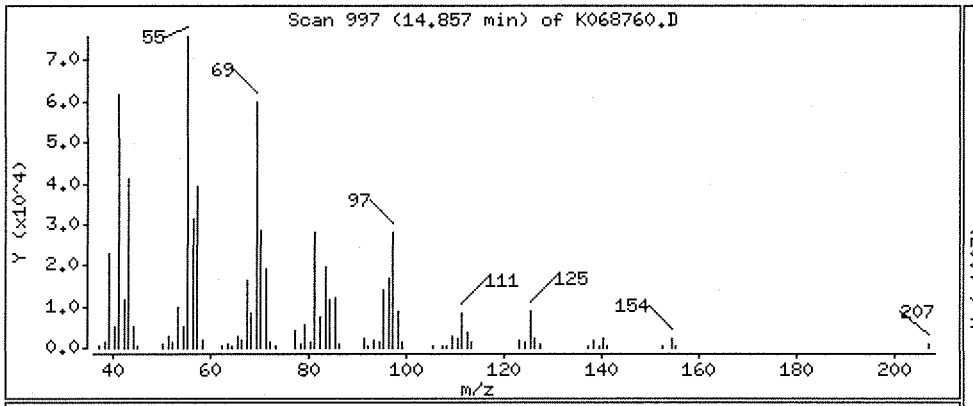
Operator: X

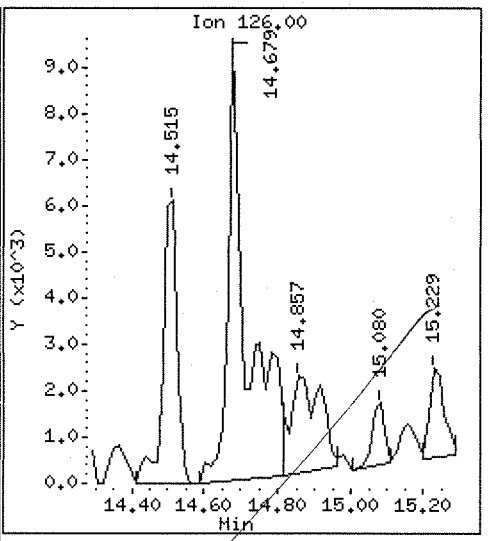
Column phase: DB-624

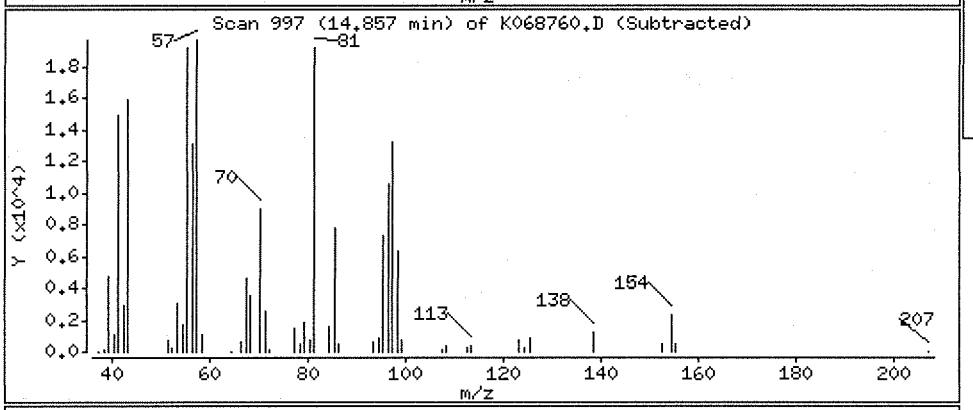
Column diameter: 0.32

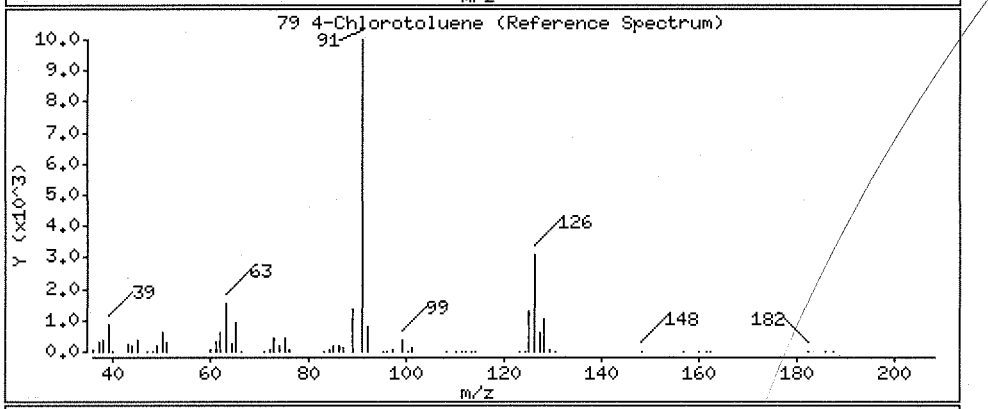
79 4-Chlorotoluene

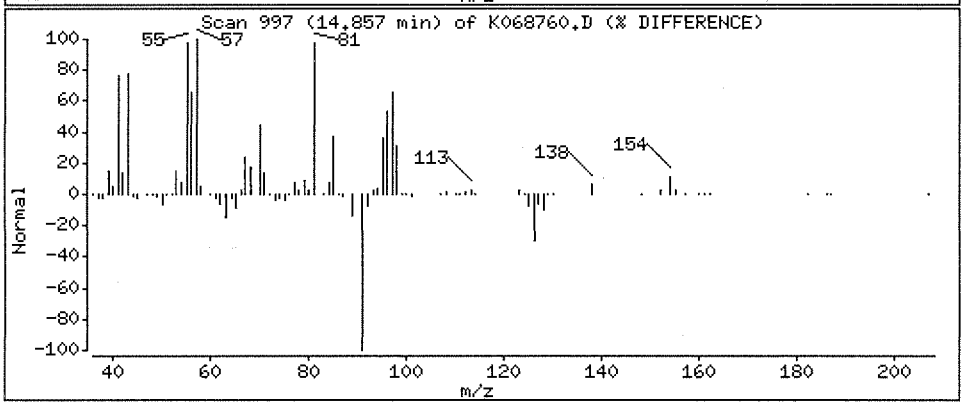
Concentration: 0.560 ug/L











Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

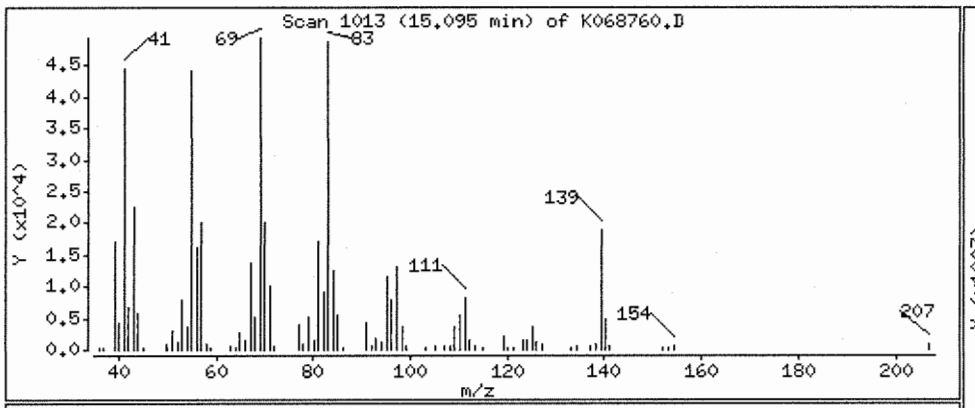
Client ID: T-55-GW-11 Instrument: MSK.i

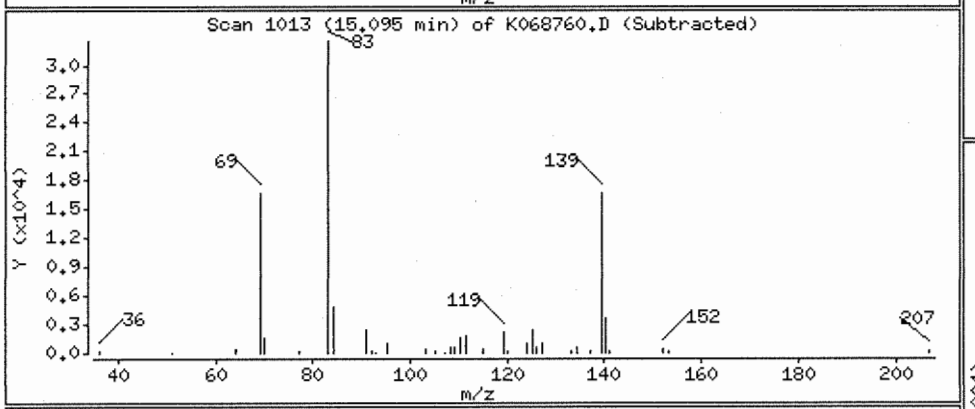
Sample Info: D0602139-006

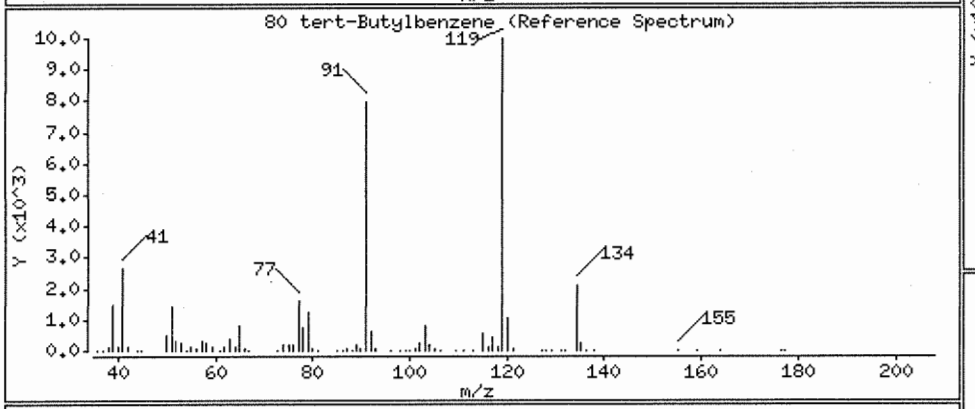
Purge Volume: 10.0 Operator: X

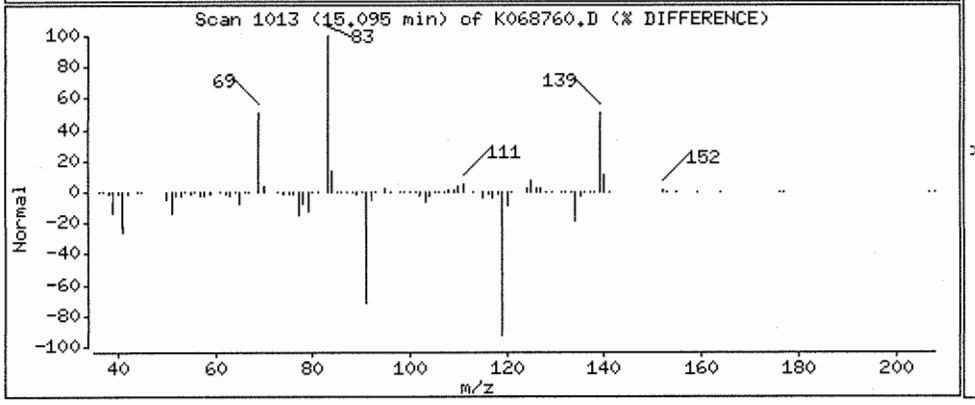
Column phase: DB-624 Column diameter: 0.32

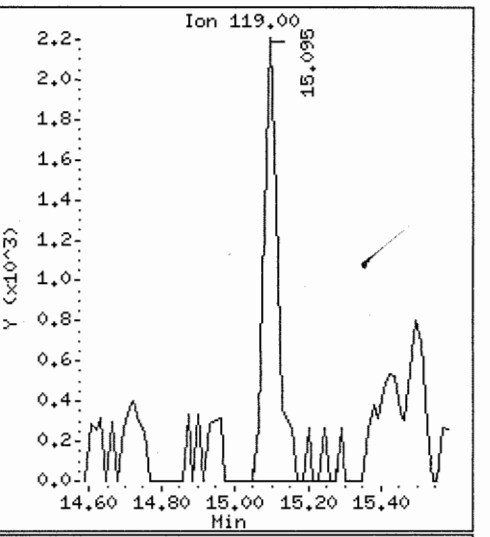
80 tert-Butylbenzene Concentration: 0.0938 ug/L

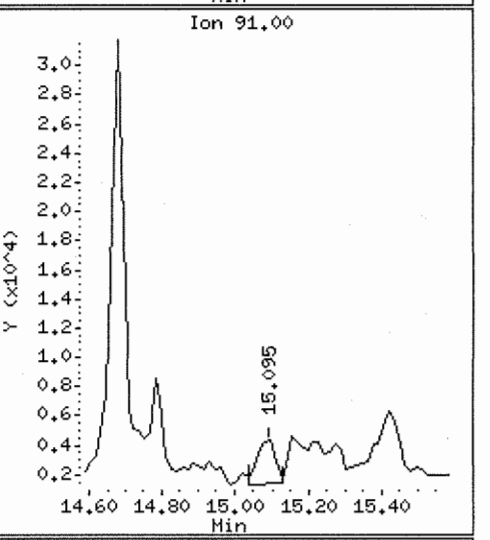


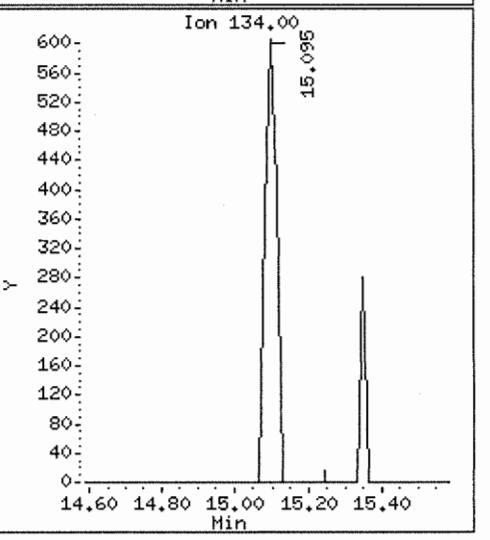












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

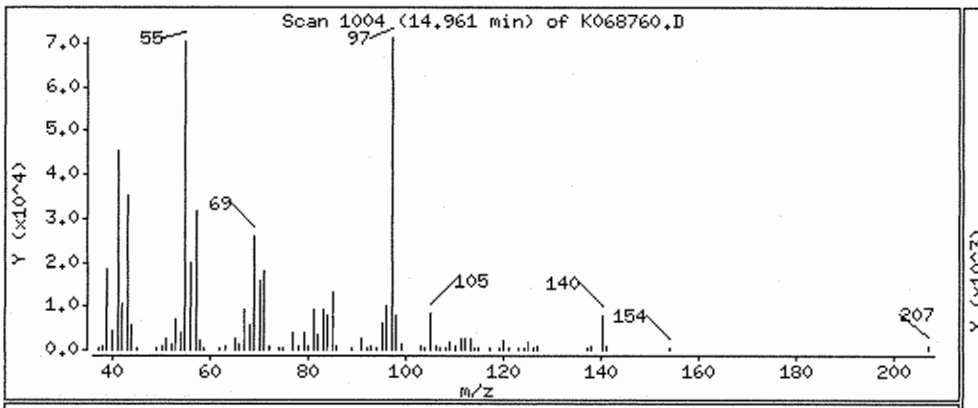
Client ID: T-55-GW-11 Instrument: MSK.i

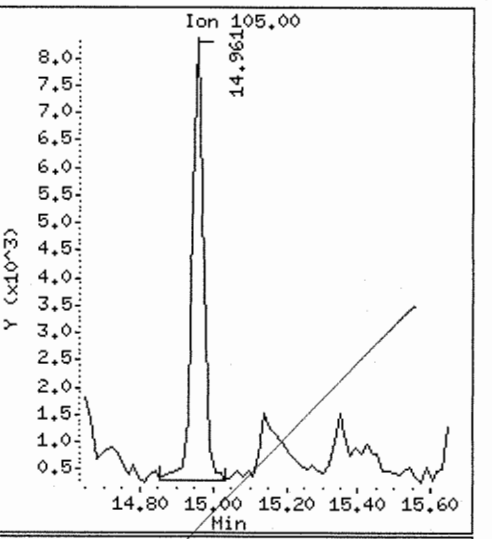
Sample Info: D0602139-006

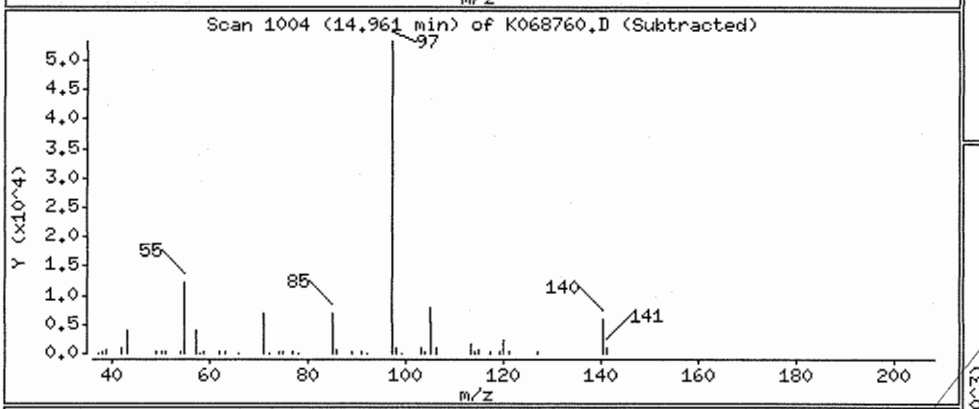
Purge Volume: 10.0 Operator: X

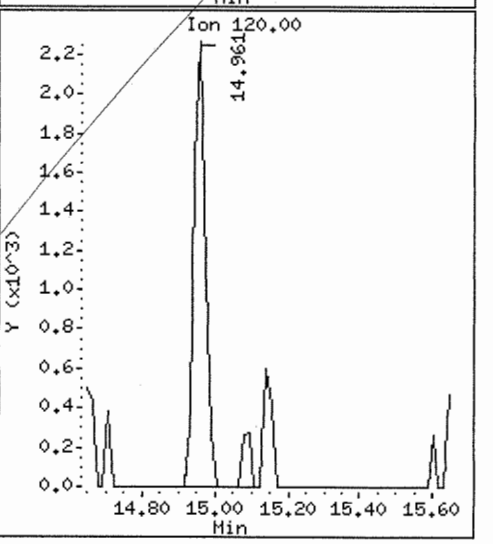
Column phase: DB-624 Column diameter: 0.32

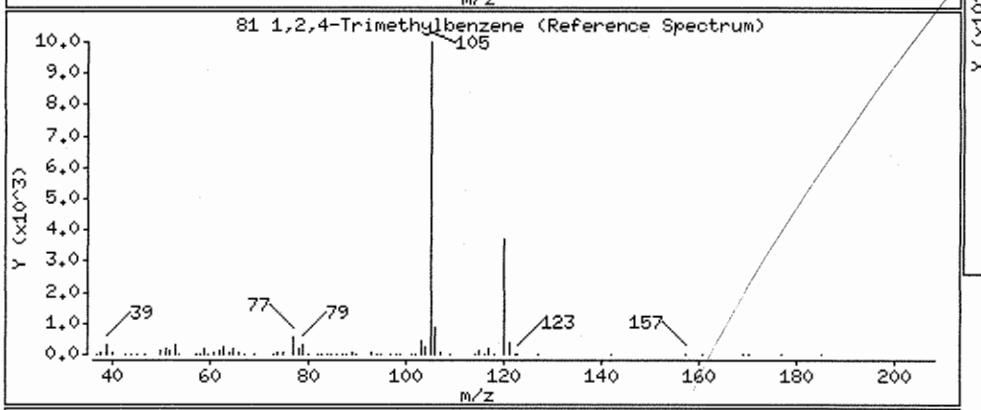
81 1,2,4-Trimethylbenzene Concentration: 0.242 ug/L

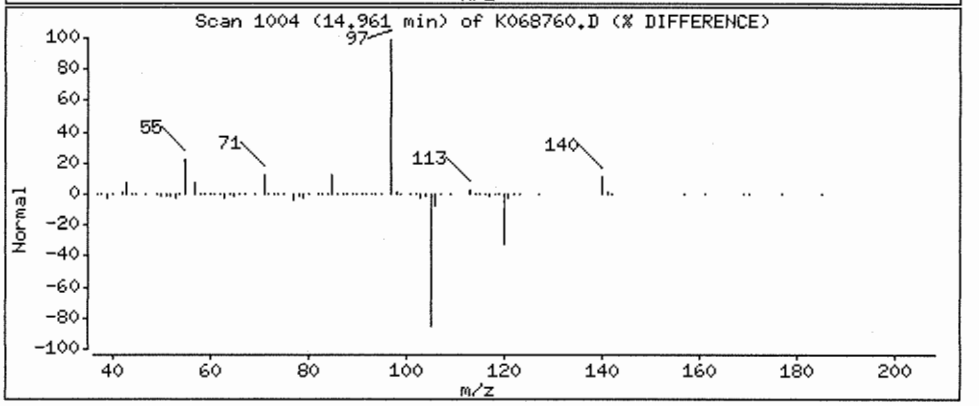












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

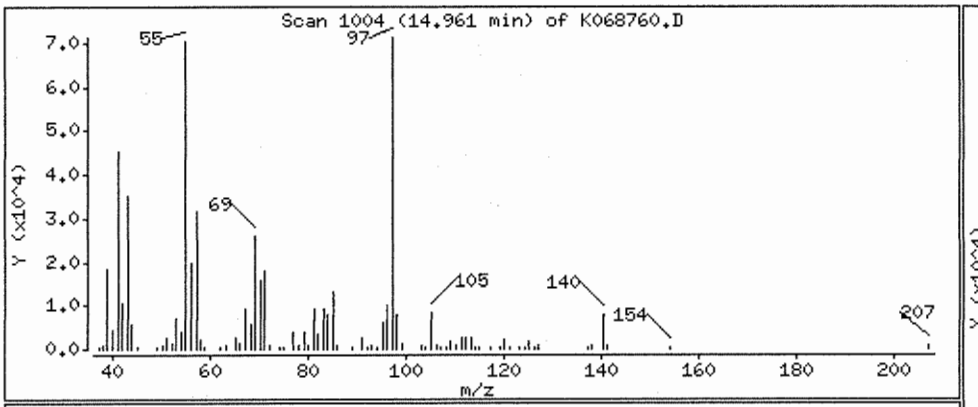
Client ID: T-55-GW-11 Instrument: MSK.i

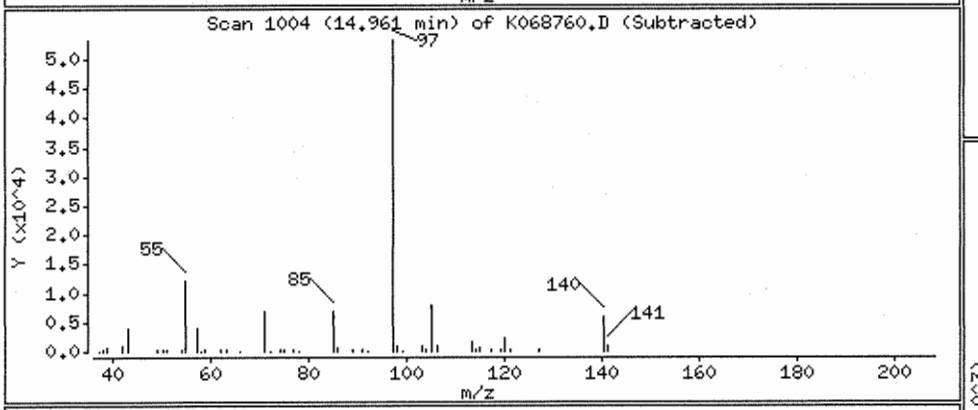
Sample Info: D0602139-006

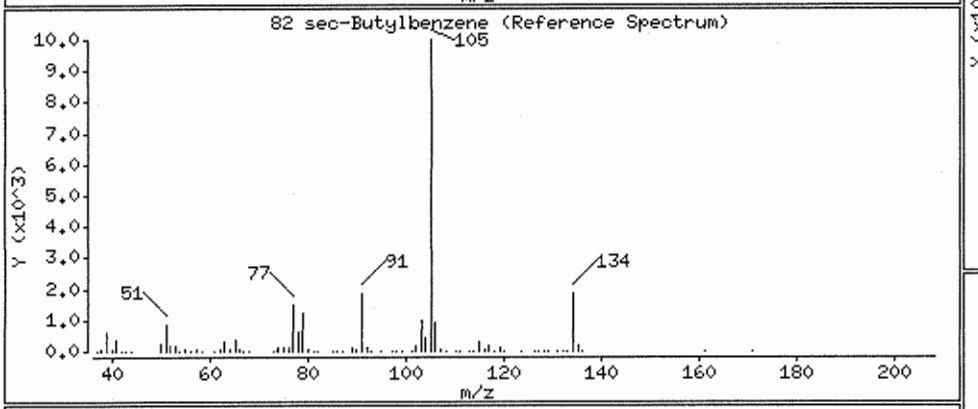
Purge Volume: 10.0 Operator: X

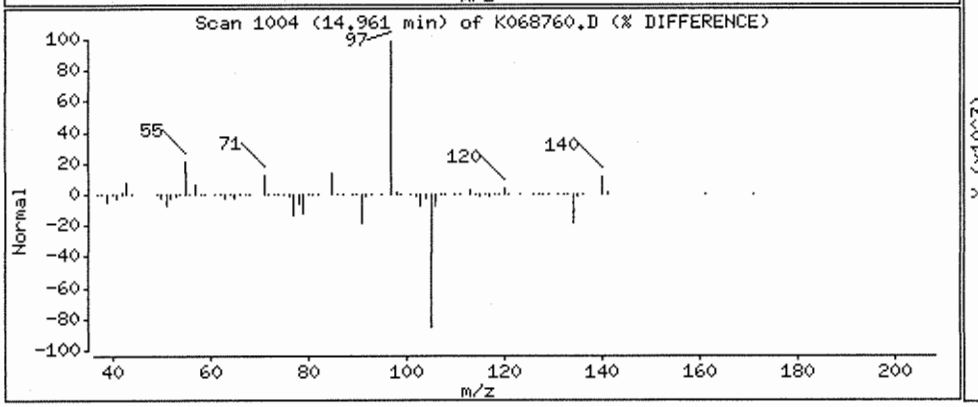
Column phase: DB-624 Column diameter: 0.32

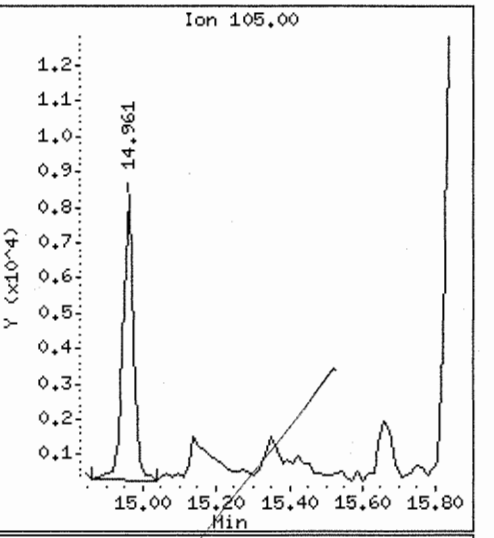
82 sec-Butylbenzene Concentration: 0.206 ug/L

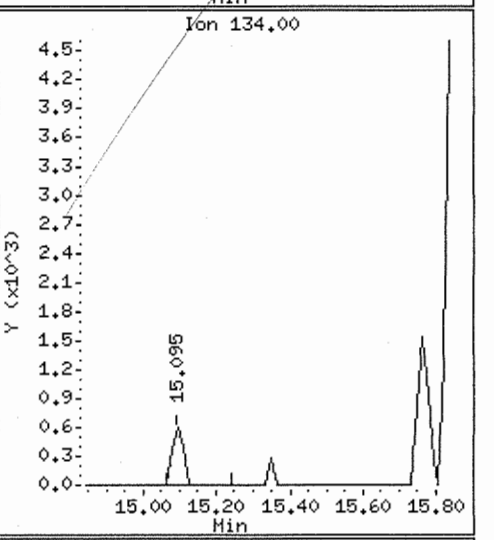


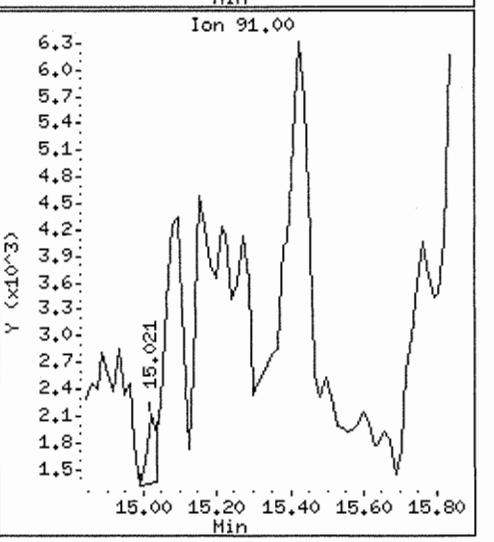












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

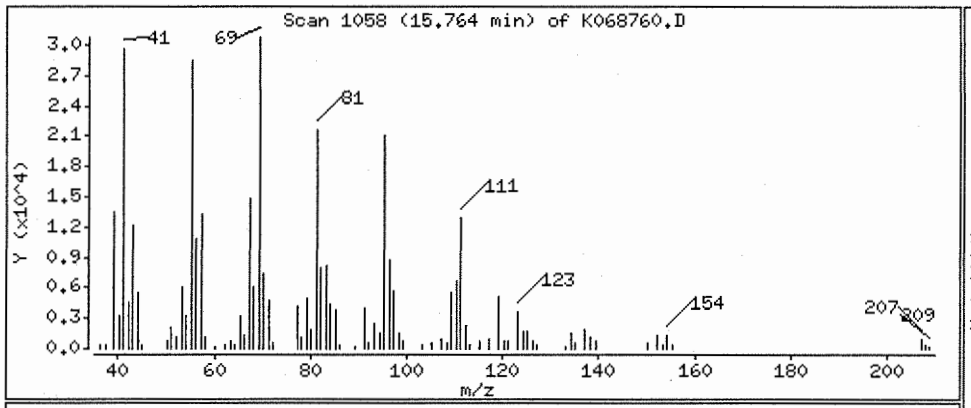
Client ID: T-55-GW-11 Instrument: MSK.i

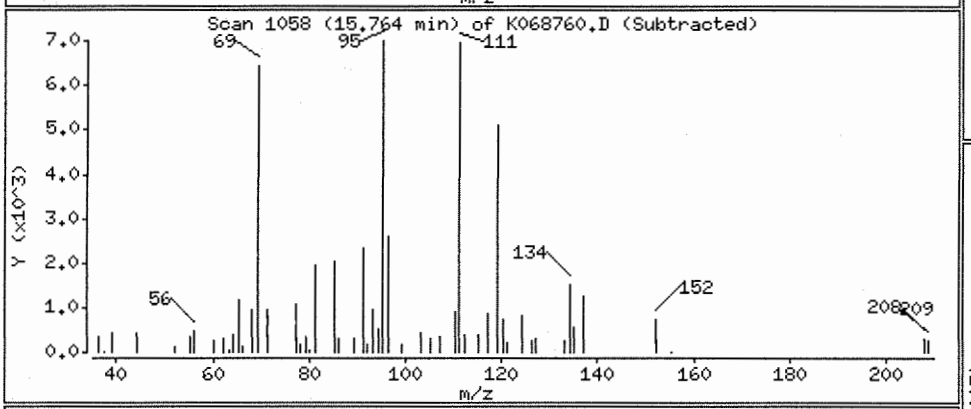
Sample Info: D0602139-006

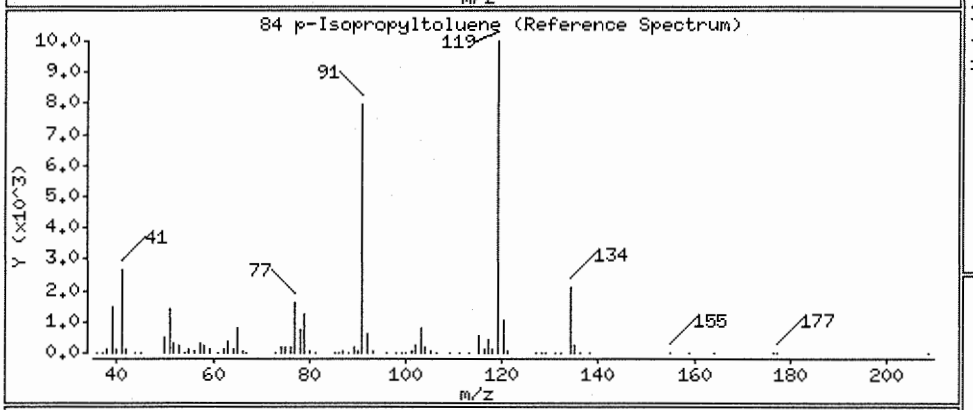
Purge Volume: 10.0 Operator: X

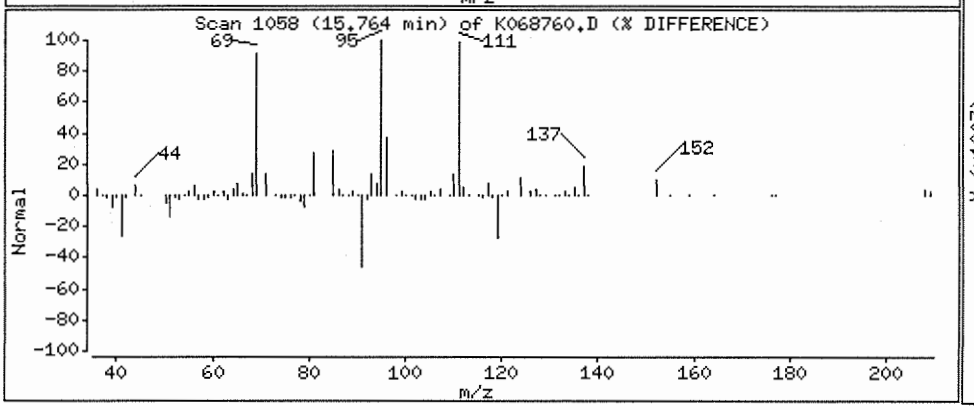
Column phase: DB-624 Column diameter: 0.32

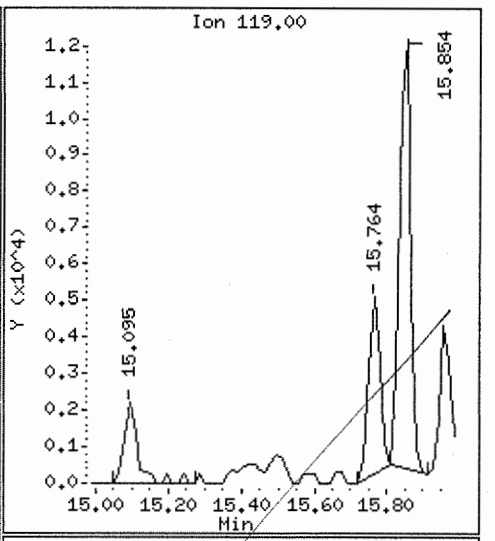
84 p-Isopropyltoluene Concentration: 0.154 ug/L

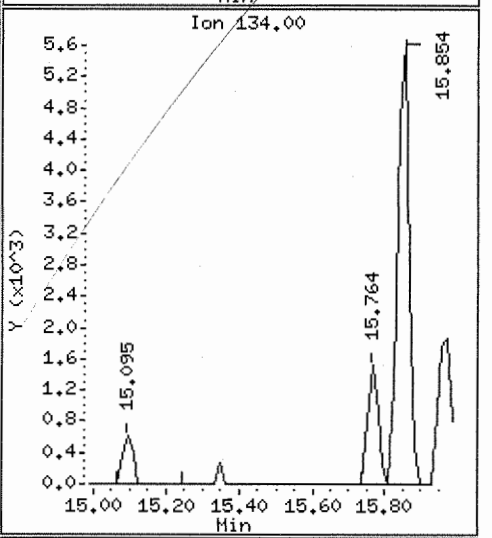


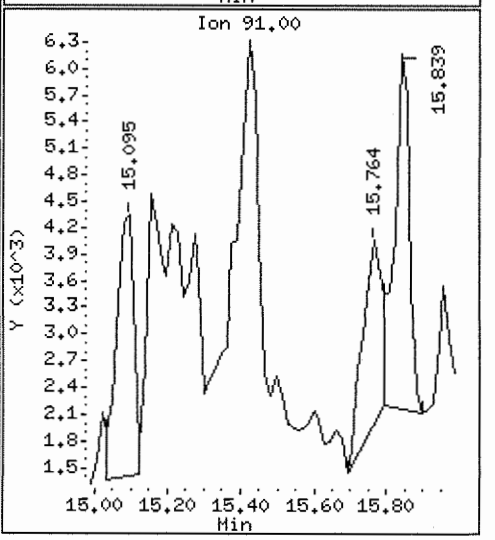












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

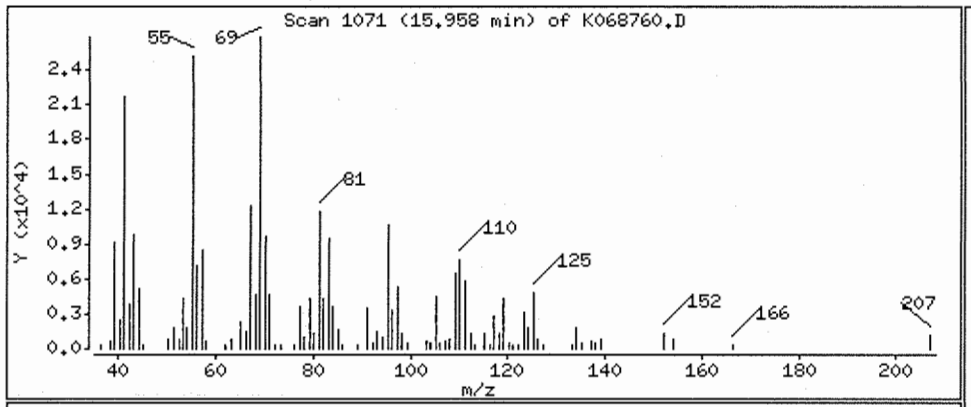
Client ID: T-55-GW-11 Instrument: MSK.i

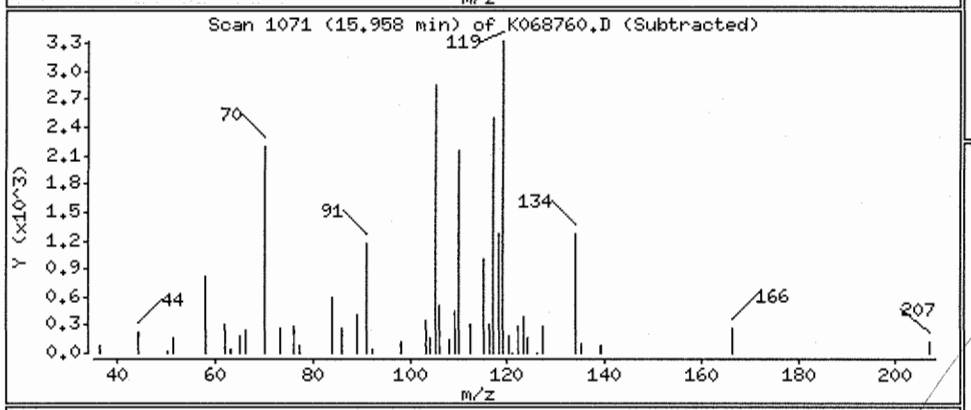
Sample Info: D0602139-006

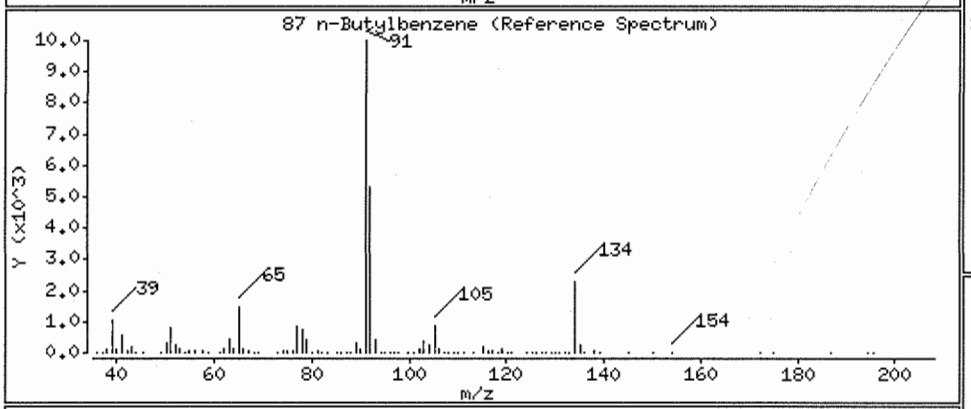
Purge Volume: 10.0 Operator: X

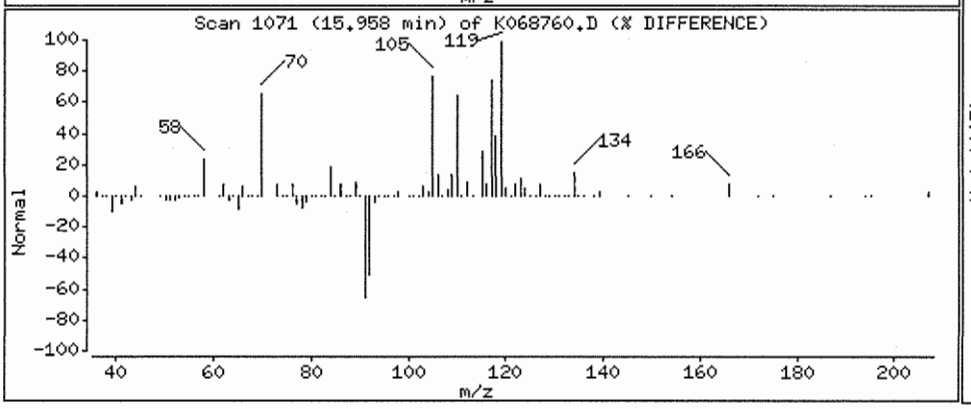
Column phase: DB-624 Column diameter: 0.32

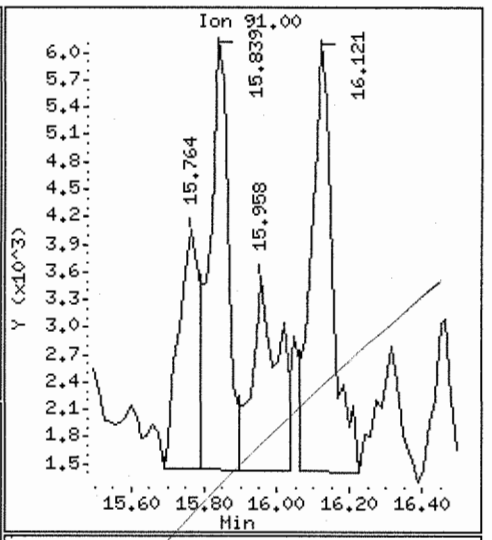
87 n-Butylbenzene Concentration: 0.133 ug/L

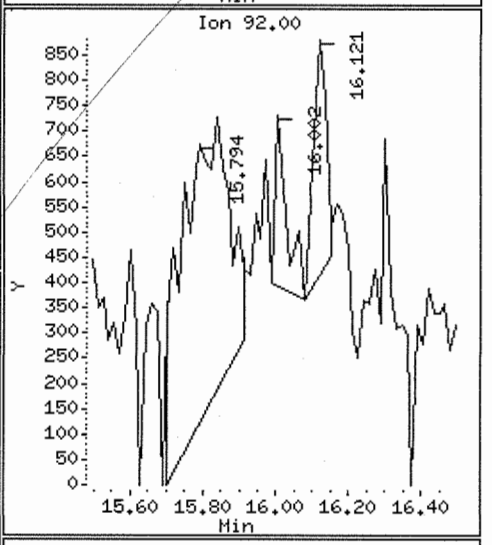


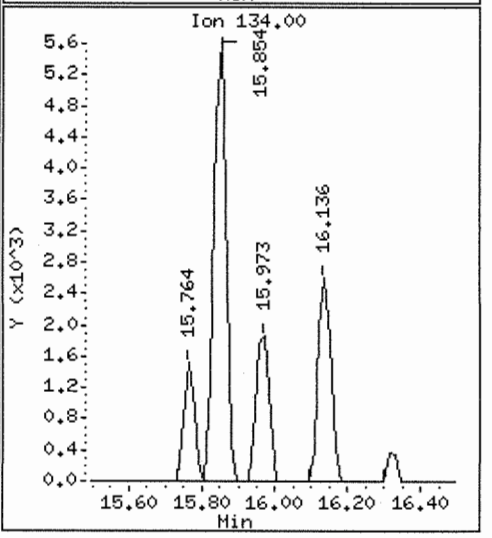












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

Client ID: T-55-GW-11

Instrument: MSK.i

Sample Info: D0602139-006

Purge Volume: 10.0

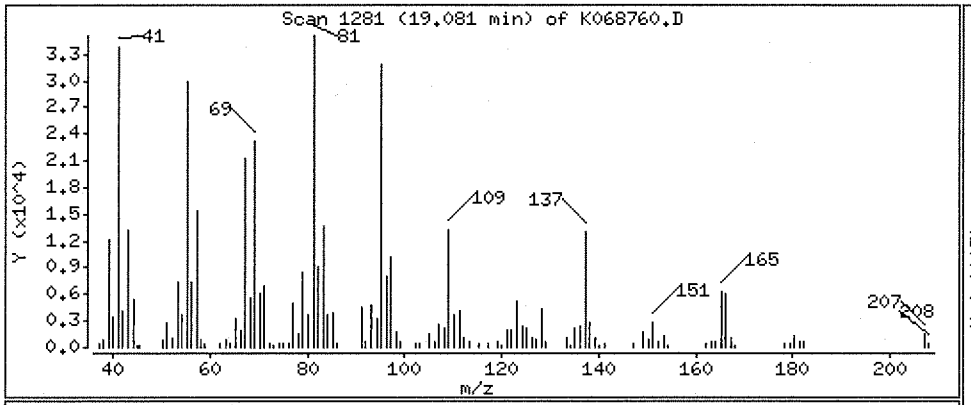
Operator: X

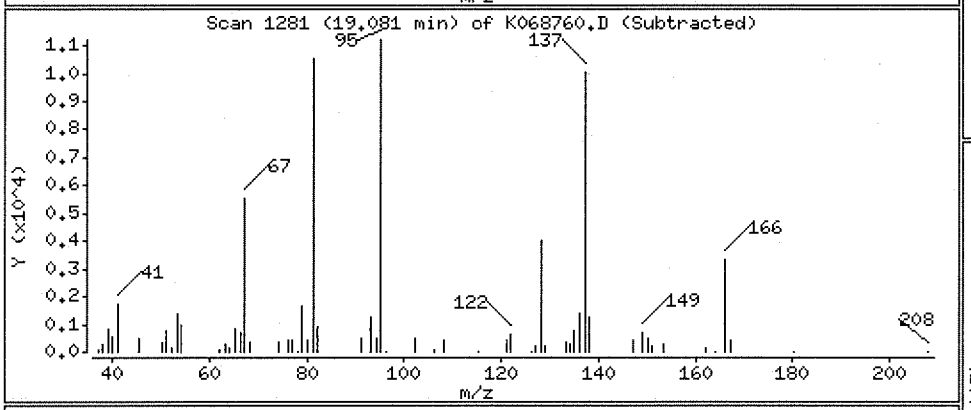
Column phase: DB-624

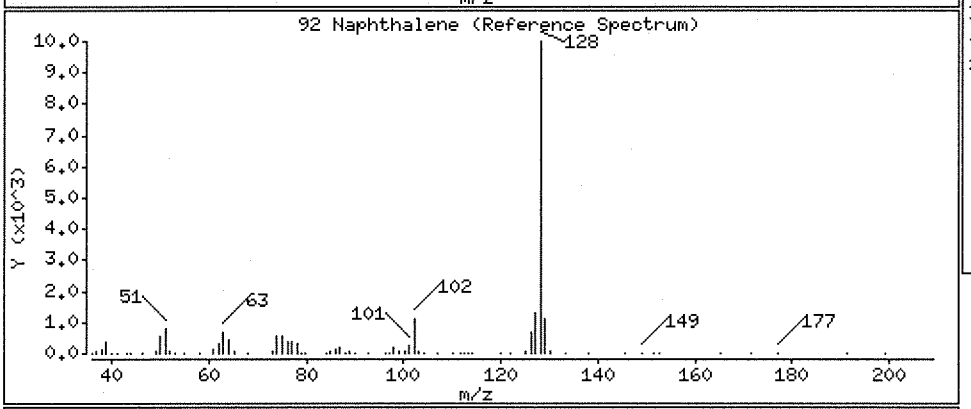
Column diameter: 0.32

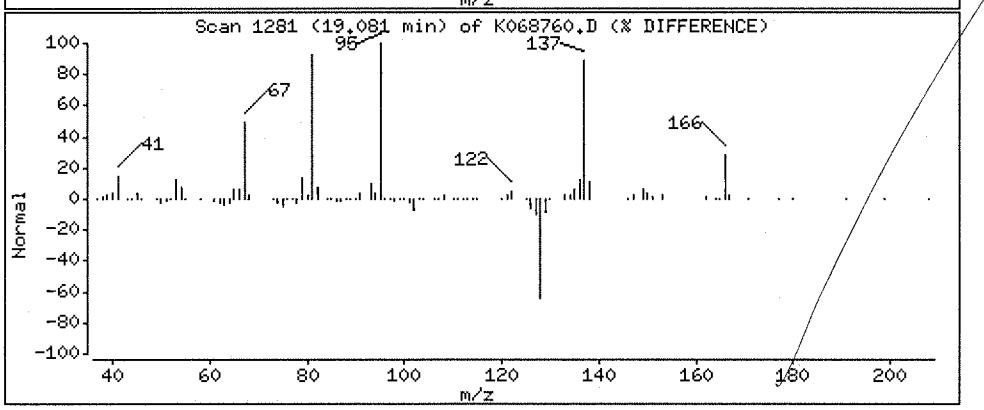
92 Naphthalene

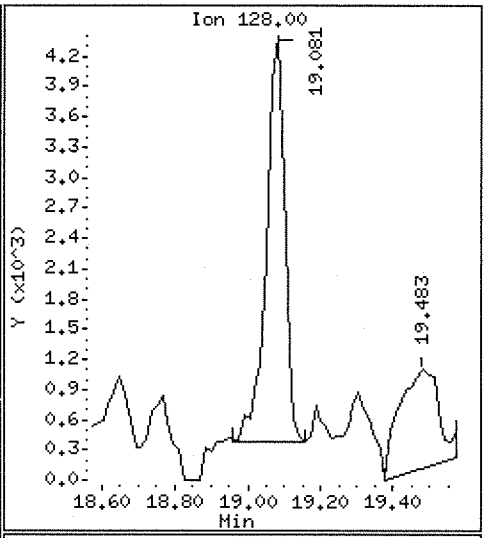
Concentration: 0.293 ug/L

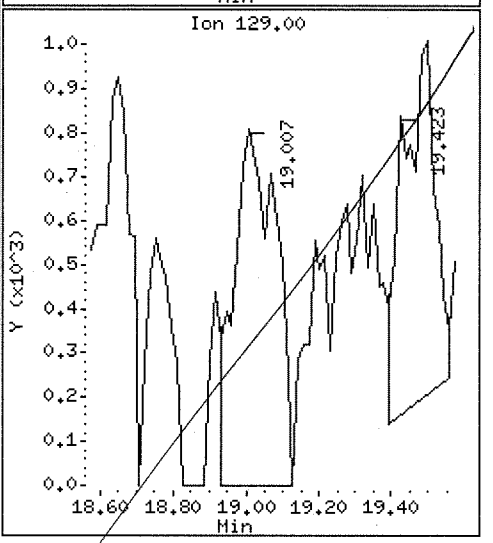












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068760.D

Date : 29-DEC-2006 20:19

Client ID: T-55-GW-11

Instrument: MSK.i

Sample Info: D0602139-006

Purge Volume: 10.0

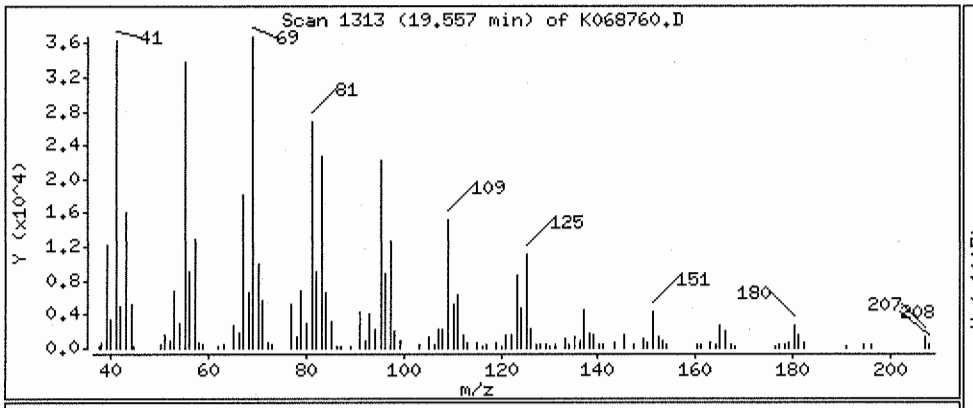
Operator: X

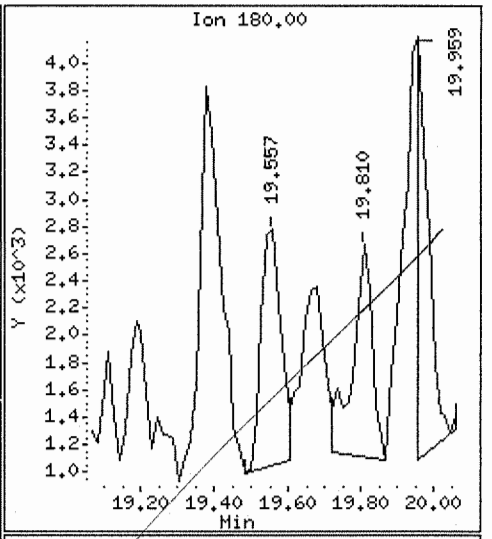
Column phase: DB-624

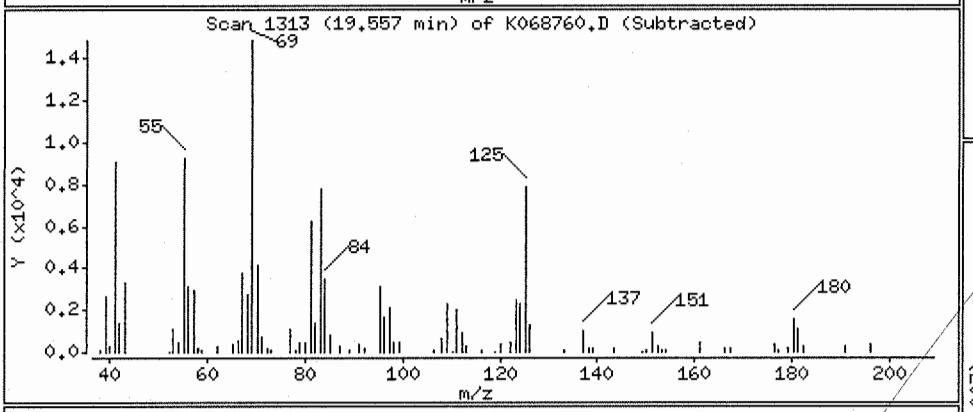
Column diameter: 0.32

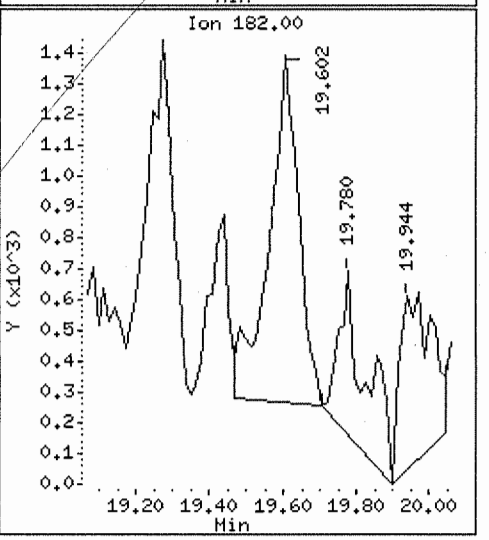
93 1,2,3-Trichlorobenzene

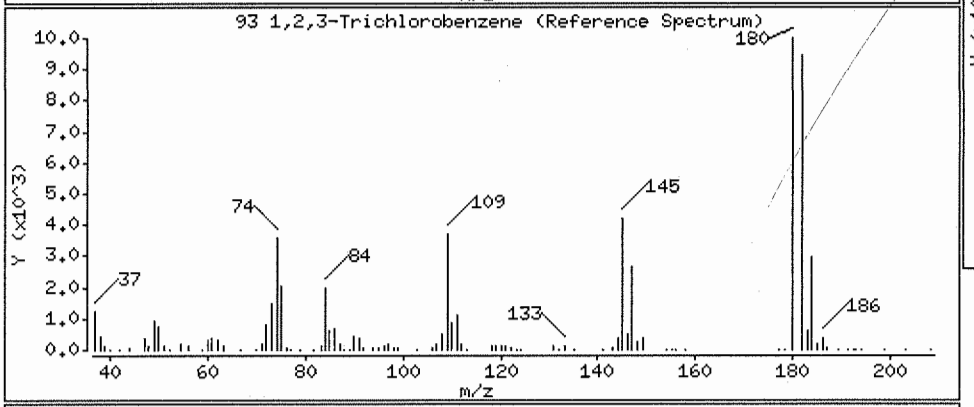
Concentration: 0.234 ug/L

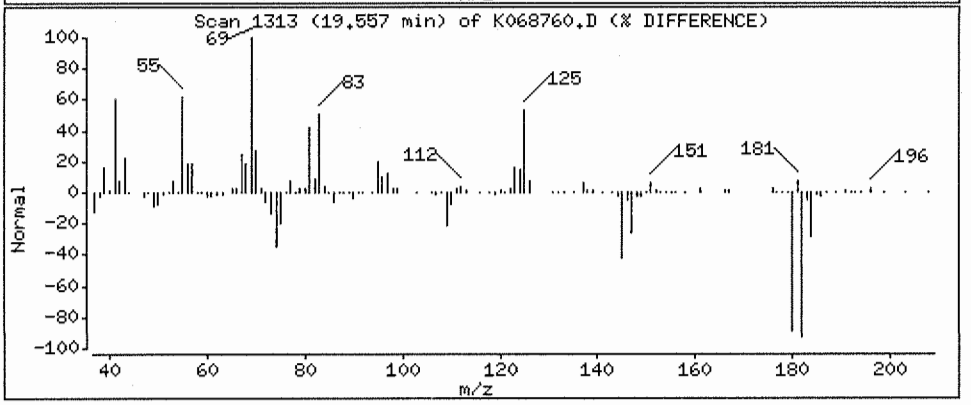












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-55-GW-40
Lab Code: D0602139-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	**0.47**	J	0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	**0.37**	J	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**76**		0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	**14**		0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**0.41**	J	0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	ND	U	0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**16**		0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	ND	U	0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	**0.14**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	**9.1**	J	0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	**0.38**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	**2.2**	J	0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	ND	U	0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-55-GW-40
Lab Code: D0602139-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	ND	U	0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	ND	U	0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	ND	U	0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	97	79-135	12/29/2006	
4-Bromofluorobenzene - SS	109	82-124	12/29/2006	
Dibromofluoromethane - SS	95	84-127	12/29/2006	
Toluene-d8 - SS	90	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D
Lab Smp Id: D0602139-007 Client Smp ID: T-55-GW-40
Inj Date : 29-DEC-2006 17:14
Operator : X Inst ID: MSK.i
Smp Info : D0602139-007
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 13:33 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

1/02/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.684	9.670	(1.000)	768956	10.0000	
* 2	Chlorobenzene-d5	117	13.031	13.016	(1.000)	540485	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.604	15.604	(1.000)	277506	10.0000	
$ 4	Dibromofluoromethane	113	8.881	8.866	(0.917)	229556	9.49792	9.50
$ 5	1,2-Dichloroethane-d4	65	9.282	9.283	(0.959)	246453	9.66744	9.67
$ 6	Toluene-d8	98	11.424	11.425	(0.877)	624260	9.04158	9.04
$ 7	Bromofluorobenzene	174	14.295	14.280	(0.916)	260799	10.8508	10.8
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	3.824	3.824	(0.395)	9014	0.46999	0.470(a)
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.374	4.642	(0.452)	2187	0.18750	0.187(a)
13	Chloroethane	64	4.820	4.806	(0.498)	3522	0.37292	0.373(a)
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.070	6.070	(0.627)	361189	76.0032	76.0
21	Carbon disulfide	76	6.442	6.427	(0.665)	1025100	13.6733	13.7
22	Methylene chloride	84	6.709	6.695	(0.693)	9912	0.41098	0.411(a)
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	6.843	7.067	(0.707)	7133	0.15410	0.154(aQ)
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	7.304	7.632	(0.754)	22002	0.29147	0.291(a)

2/2/7

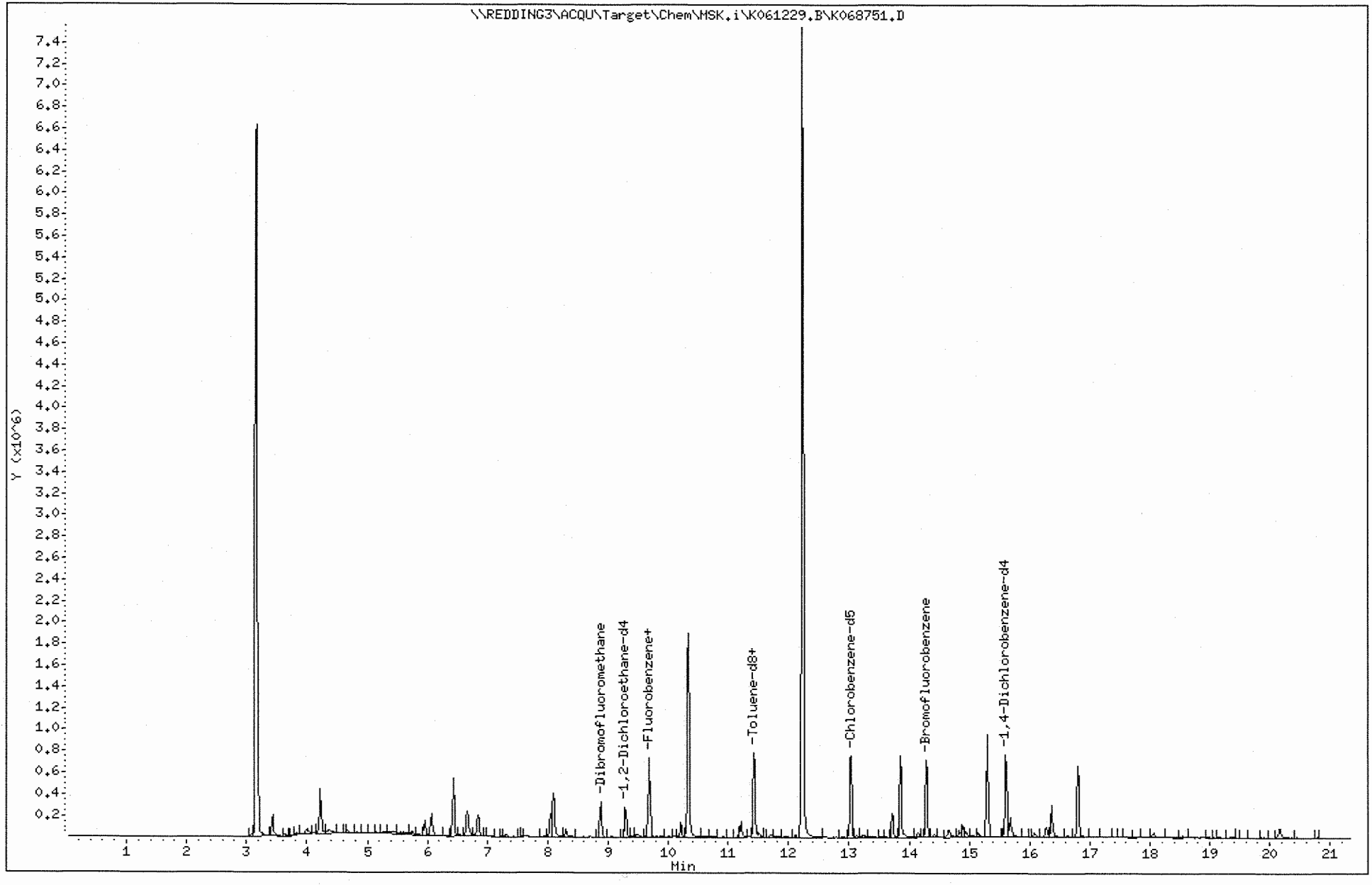
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	8.048	8.346	(0.831)	14796	0.45516	0.455(a)
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.301	8.286	(0.857)	108820	16.0736	16.1
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	9.401	9.387	(0.971)	10864	0.13698	0.137(a)
44	1,2-Dichloroethane	62	9.684	9.372	(1.000)	11058	0.37523	0.375(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	11.216	11.202	(1.158)	146268	9.06097	9.06(a)
53	Toluene	92	11.499	11.499	(0.882)	18849	0.38195	0.382(a)
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.227	11.886	(0.938)	39967	2.70905	2.71(Q)
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	12.109	12.094	(0.929)	23986	2.23546	2.24(a)
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	13.254	13.700	(1.017)	3380	0.10808	0.108(a)
M 67	Xylene (total)	106				3380	0.10808	0.108(a)
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D
Date : 29-DEC-2006 17:14
Client ID: T-55-GW-40
Sample Info: D0602139-007
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



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Date : 29-DEC-2006 17:14

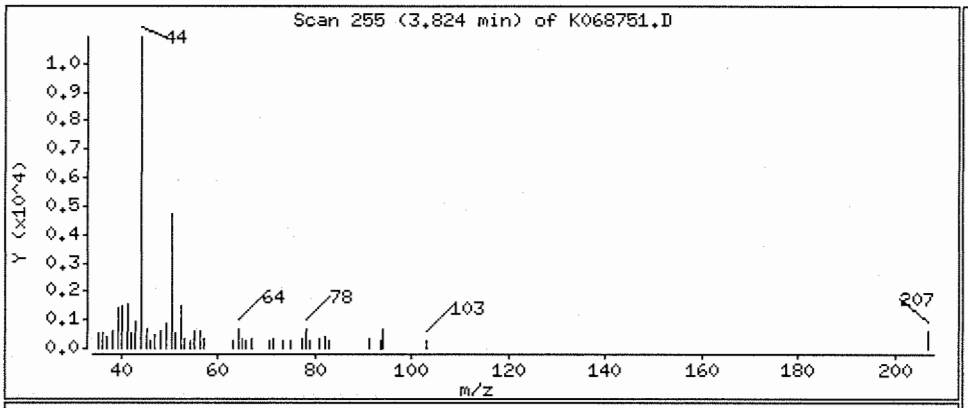
Client ID: T-55-GW-40 Instrument: MSK.i

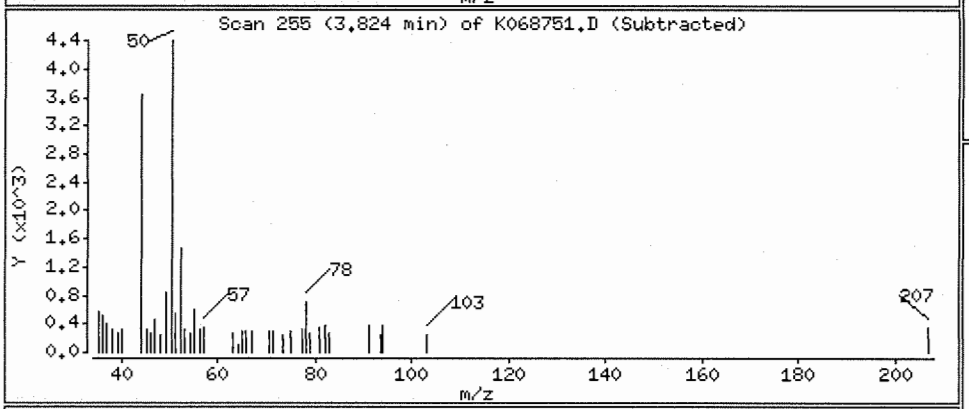
Sample Info: D0602139-007

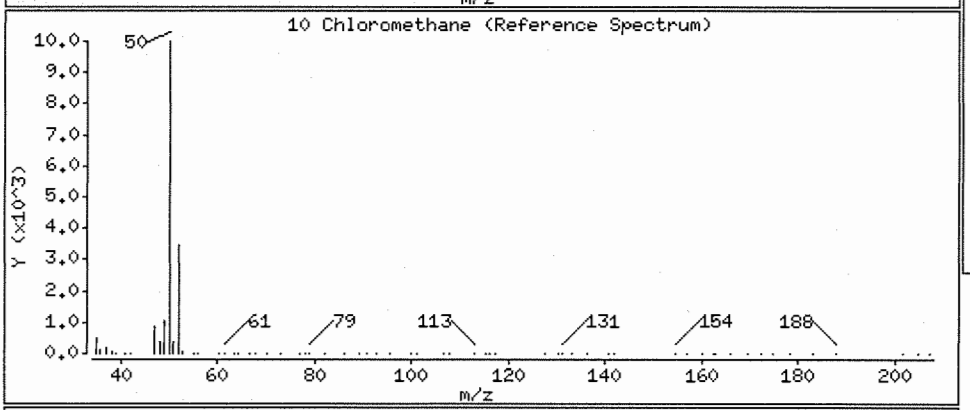
Purge Volume: 10.0 Operator: X

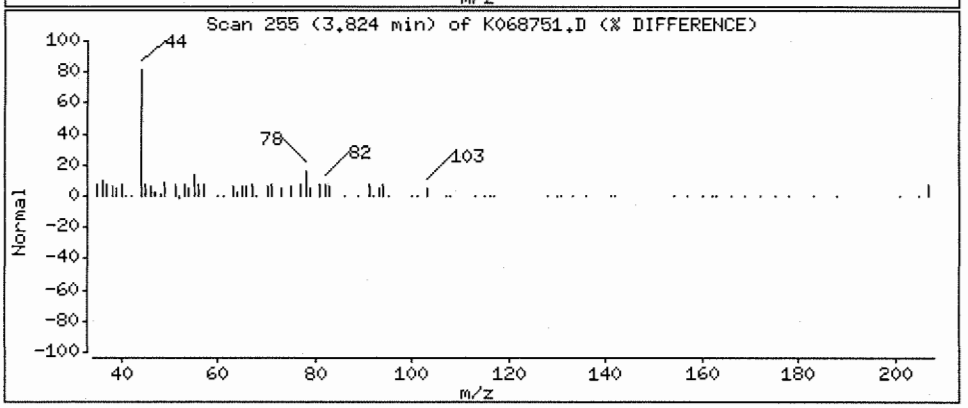
Column phase: DB-624 Column diameter: 0.32

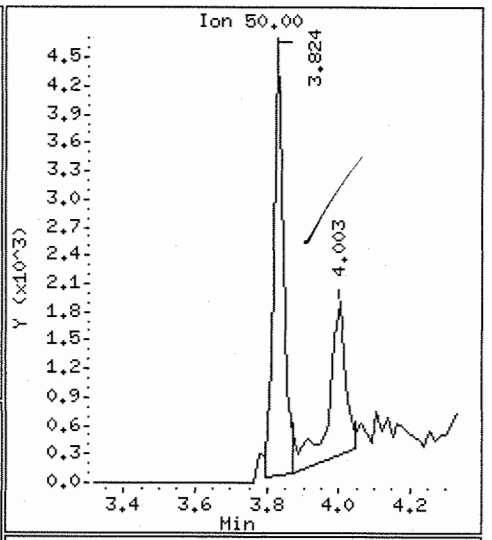
10 Chloromethane Concentration: 0.470 ug/L

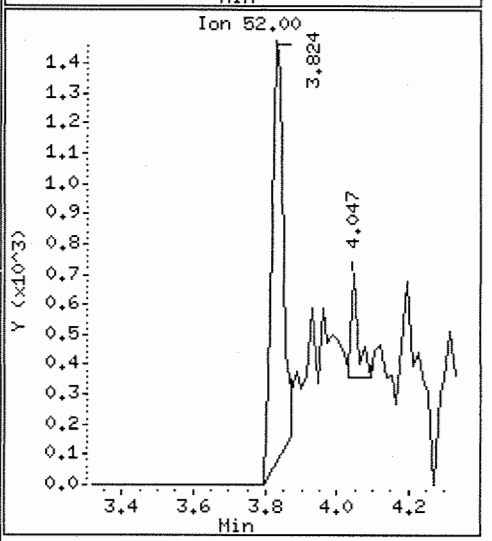












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Date : 29-DEC-2006 17:14

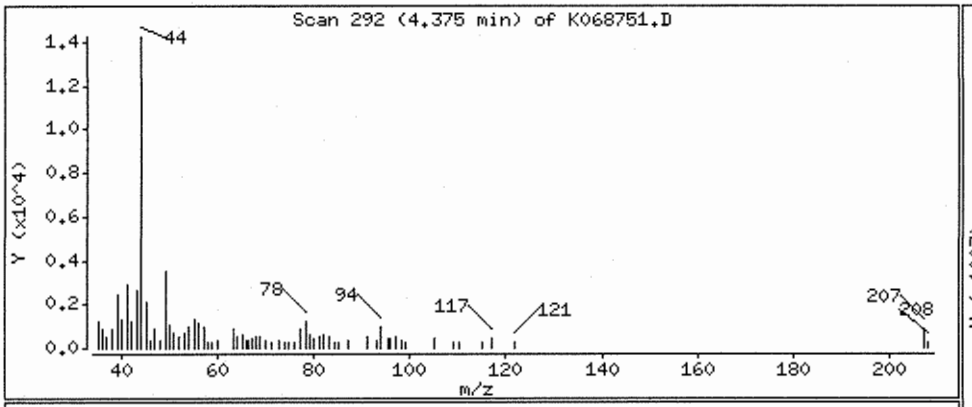
Client ID: T-55-GW-40 Instrument: MSK.i

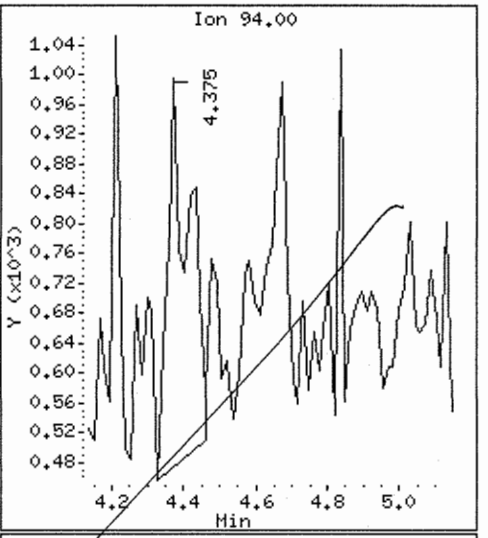
Sample Info: D0602139-007

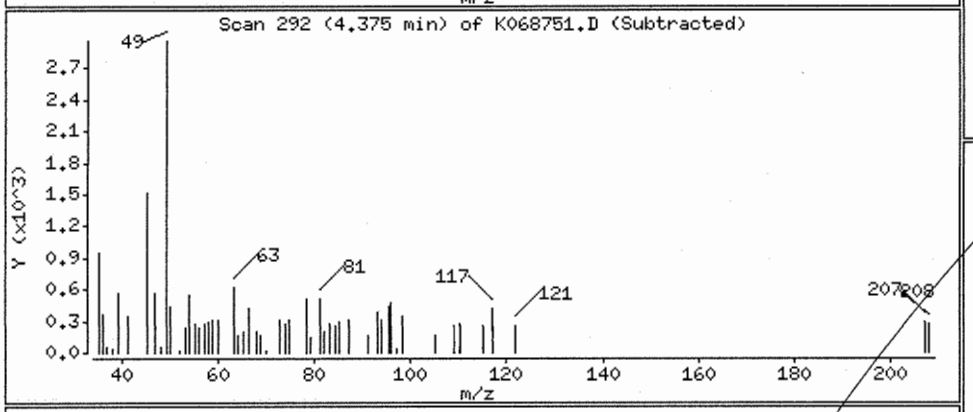
Purge Volume: 10.0 Operator: X

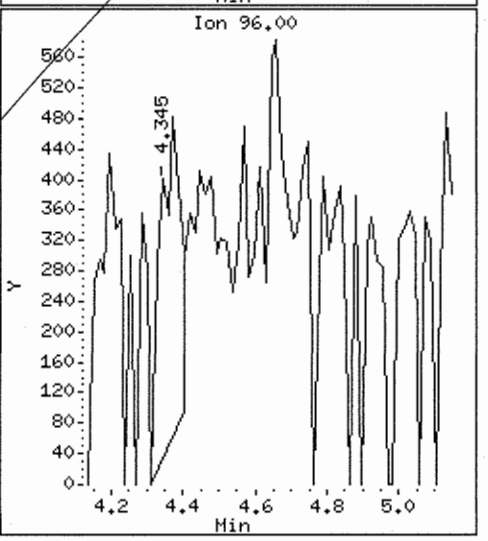
Column phase: DB-624 Column diameter: 0.32

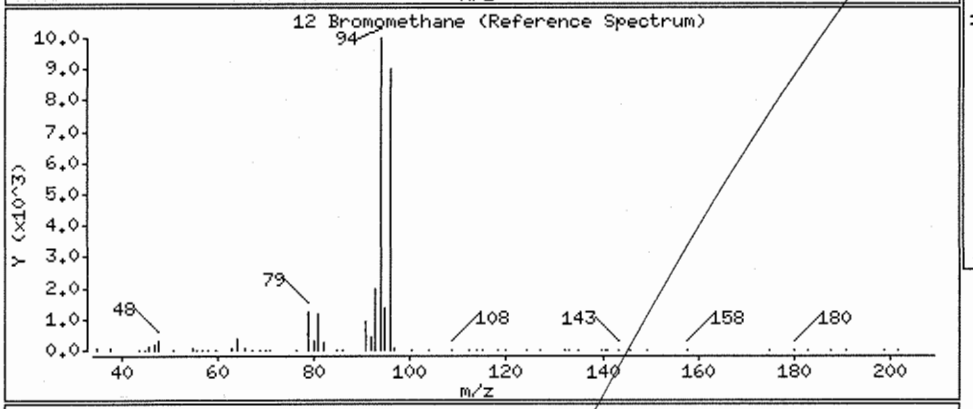
12 Bromomethane Concentration: 0.187 ug/L

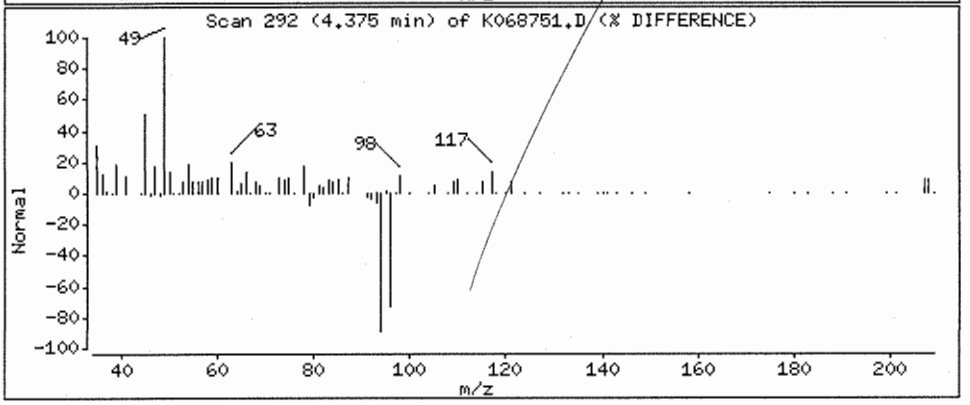












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Date : 29-DEC-2006 17:14

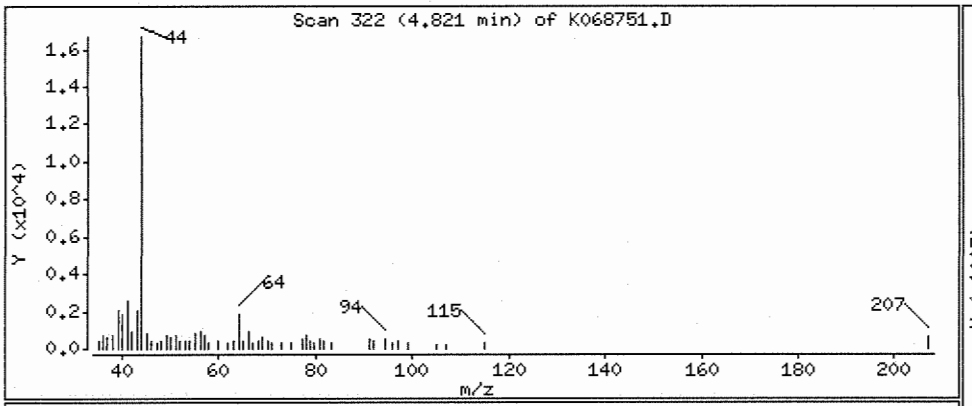
Client ID: T-55-GW-40 Instrument: MSK.i

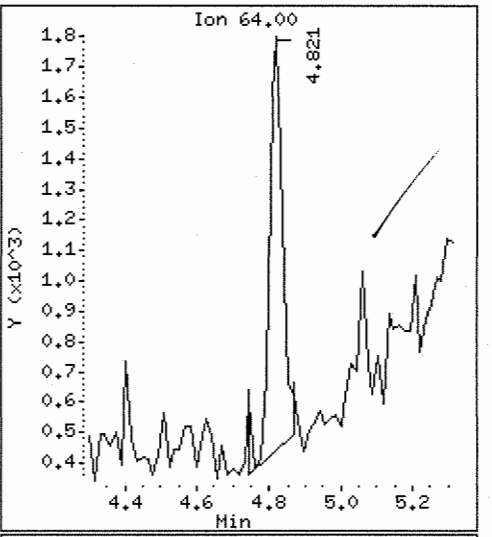
Sample Info: D0602139-007

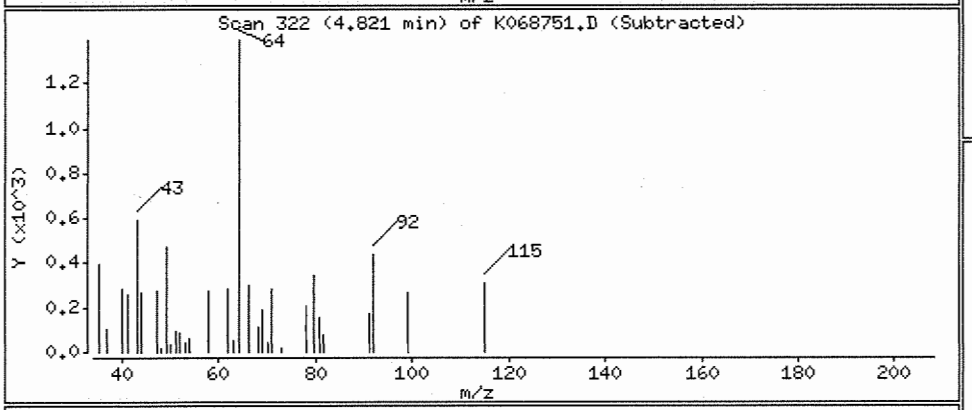
Purge Volume: 10.0 Operator: X

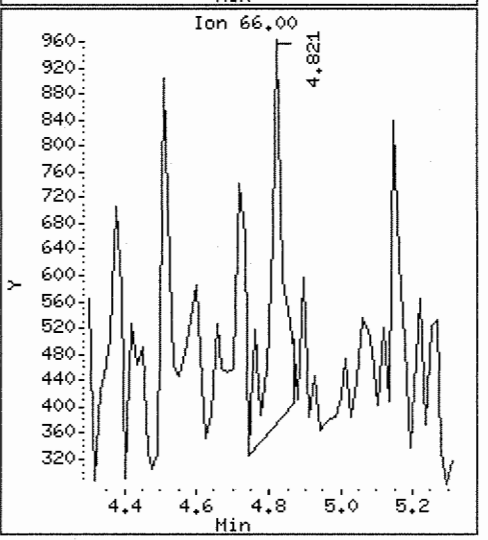
Column phase: DB-624 Column diameter: 0.32

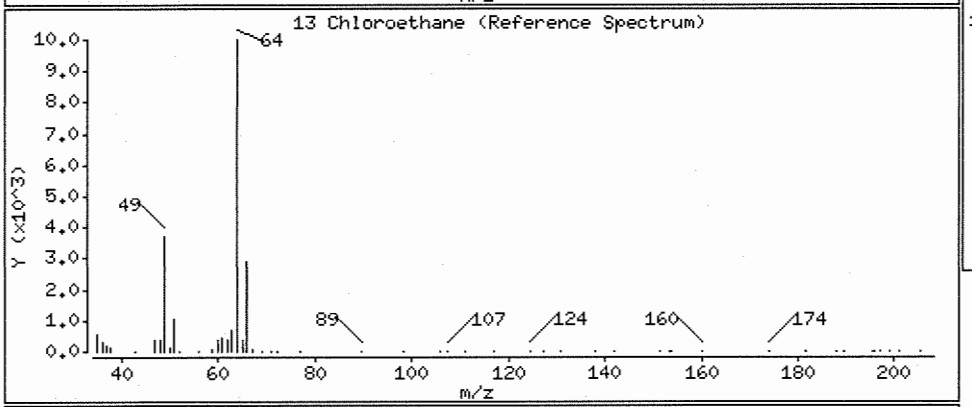
13 Chloroethane Concentration: 0.373 ug/L

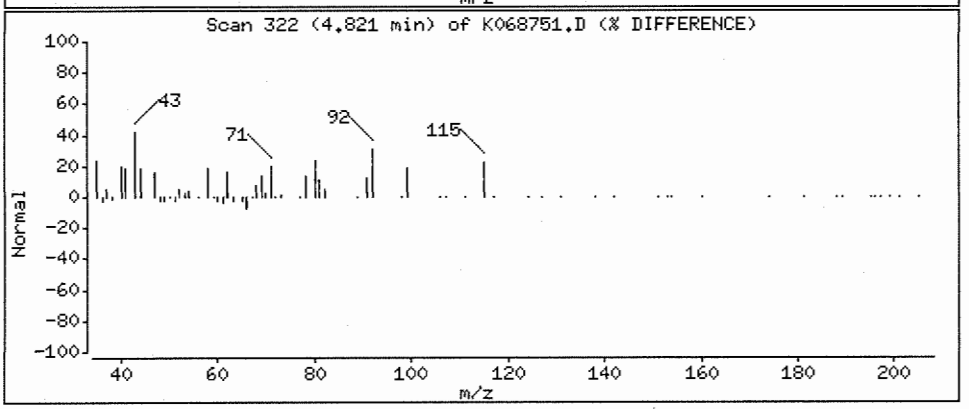












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

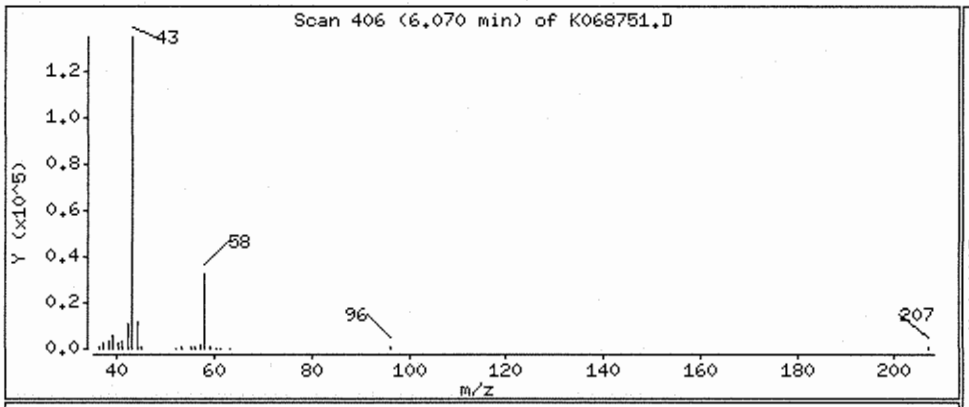
Client ID: T-55-GW-40 Instrument: MSK.i

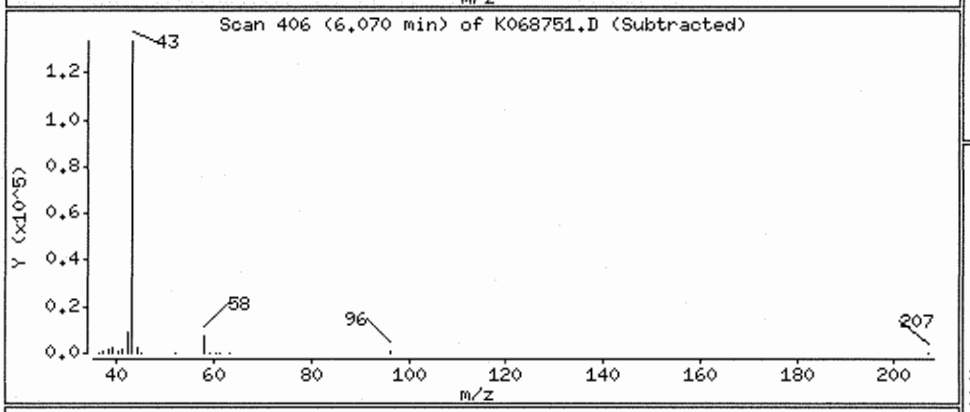
Sample Info: D0602139-007

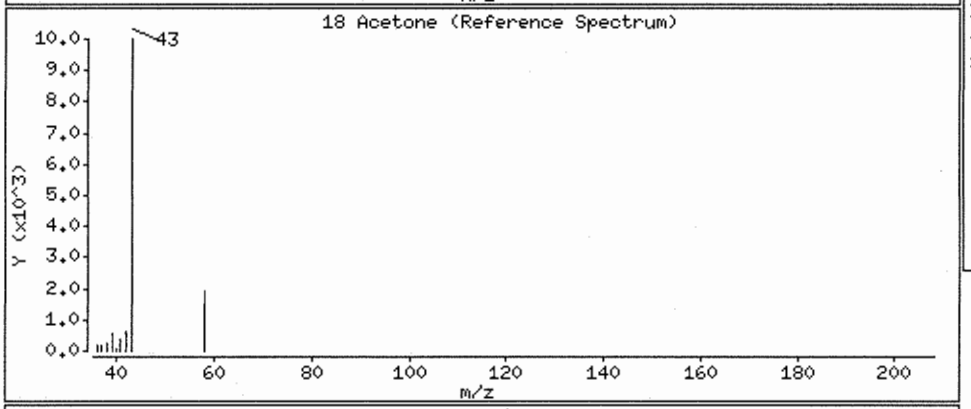
Purge Volume: 10.0 Operator: X

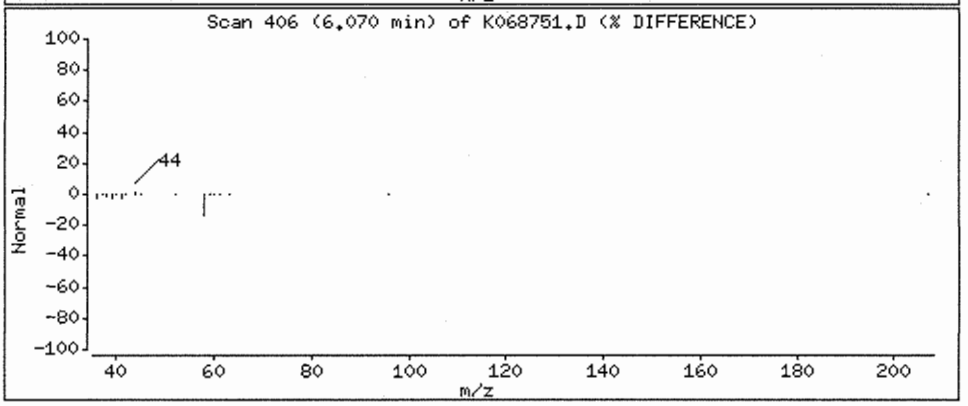
Column phase: DB-624 Column diameter: 0.32

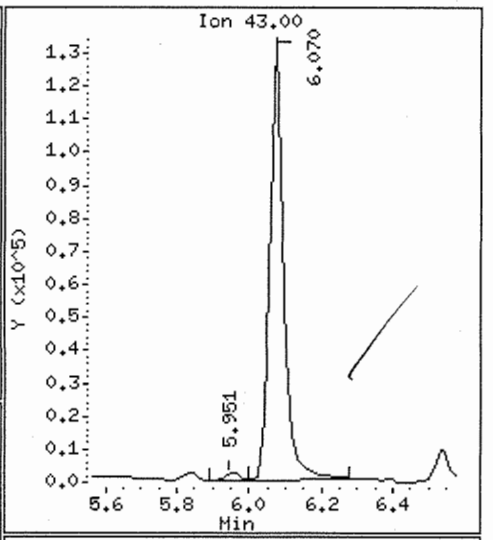
18 Acetone Concentration: 76.0 ug/L

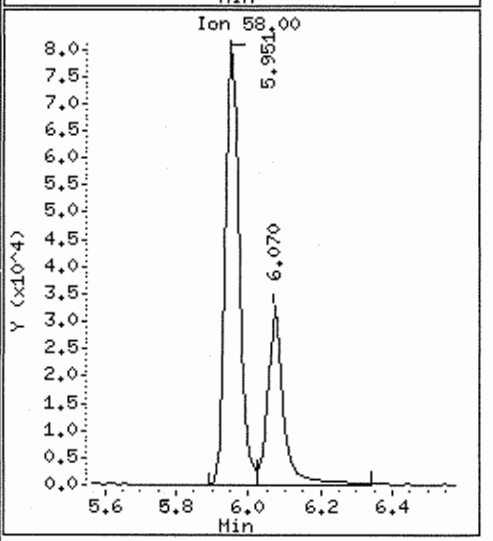












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

Client ID: T-55-GW-40

Instrument: MSK.i

Sample Info: D0602139-007

Purge Volume: 10.0

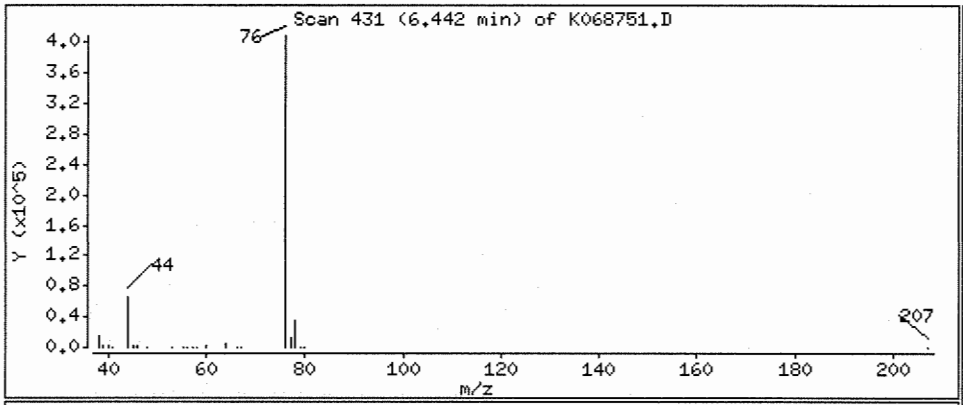
Operator: X

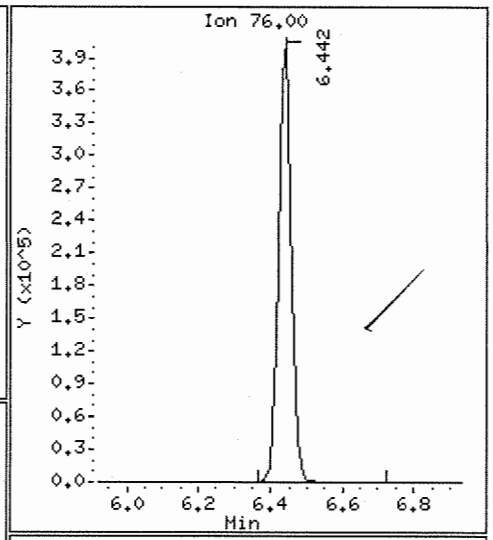
Column phase: DB-624

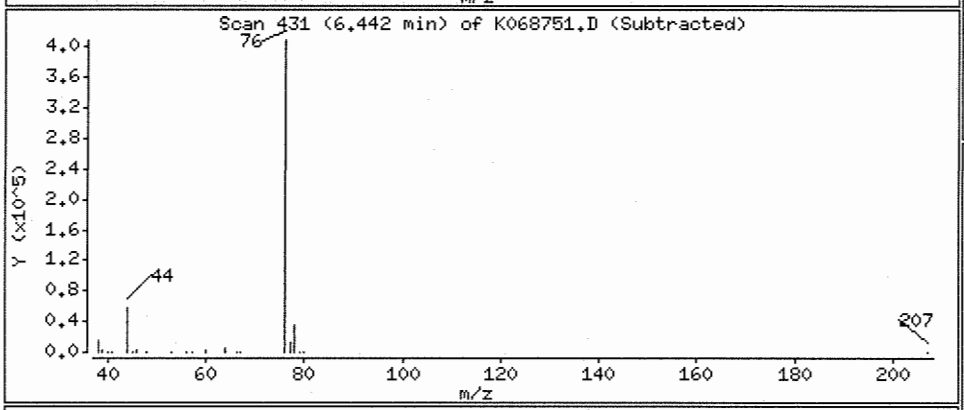
Column diameter: 0.32

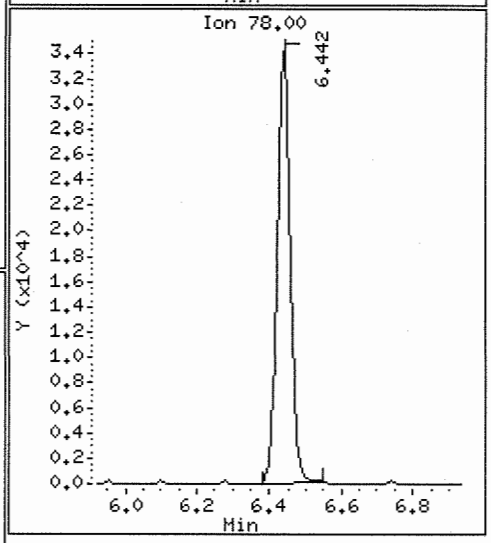
21 Carbon disulfide

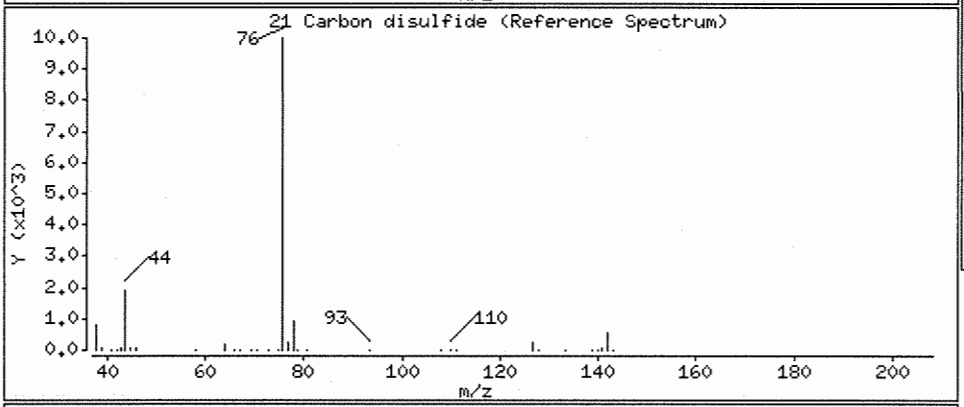
Concentration: 13.7 ug/L

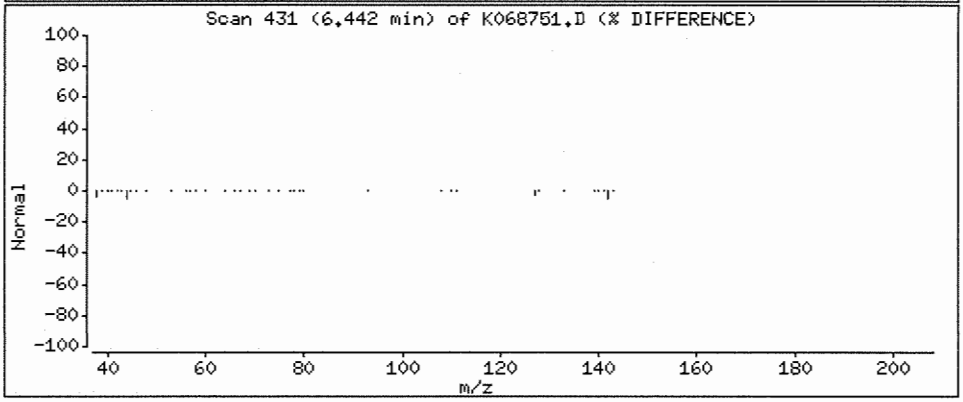












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

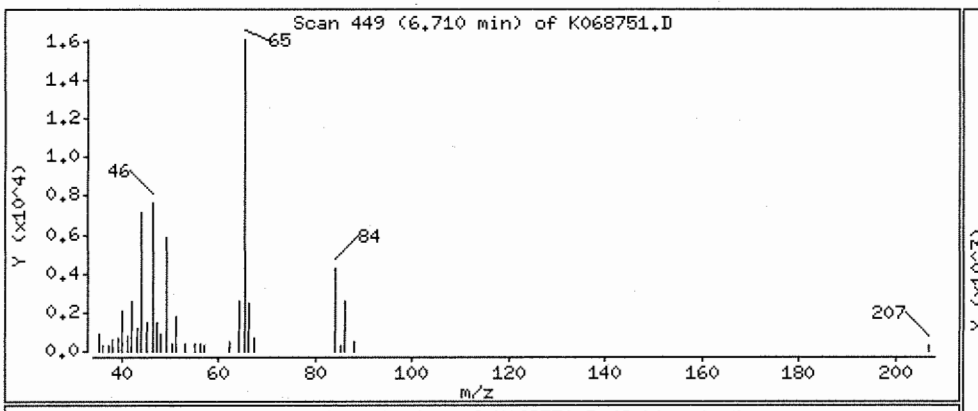
Client ID: T-55-GW-40 Instrument: MSK.i

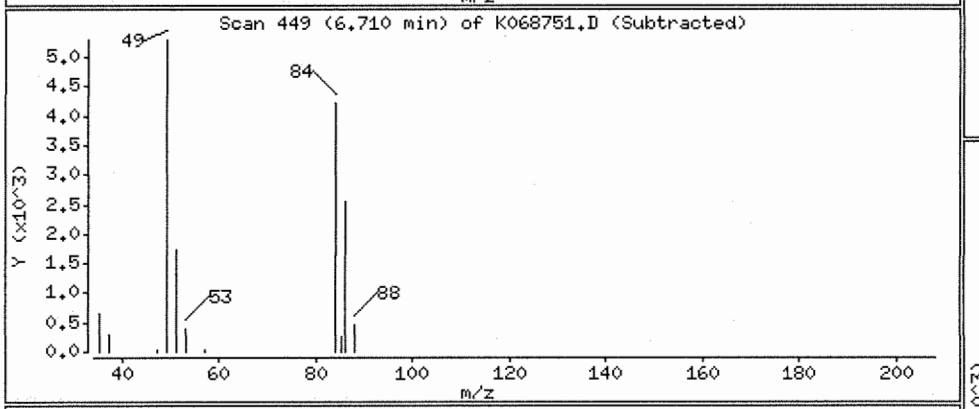
Sample Info: D0602139-007

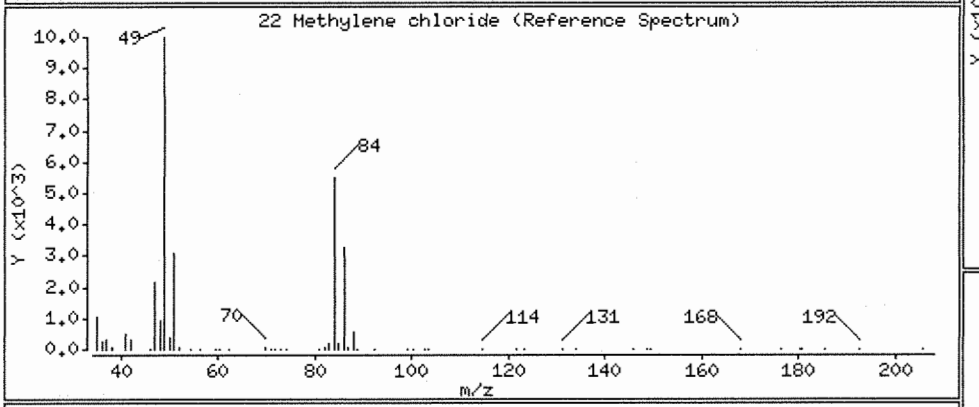
Purge Volume: 10.0 Operator: X

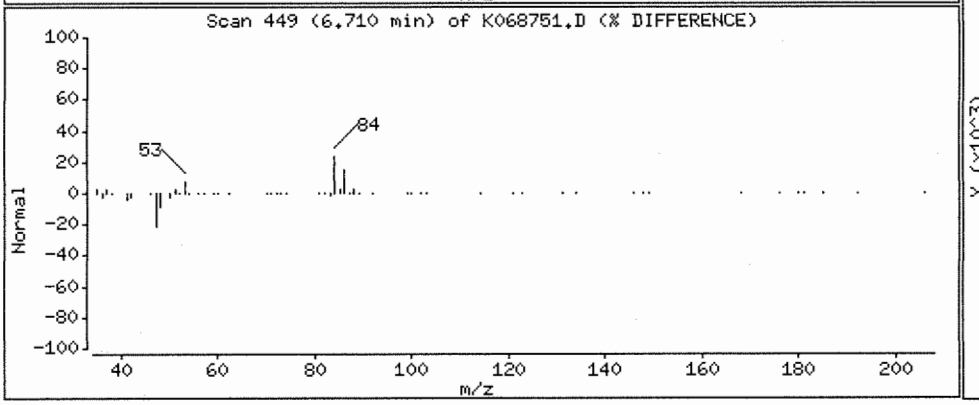
Column phase: DB-624 Column diameter: 0.32

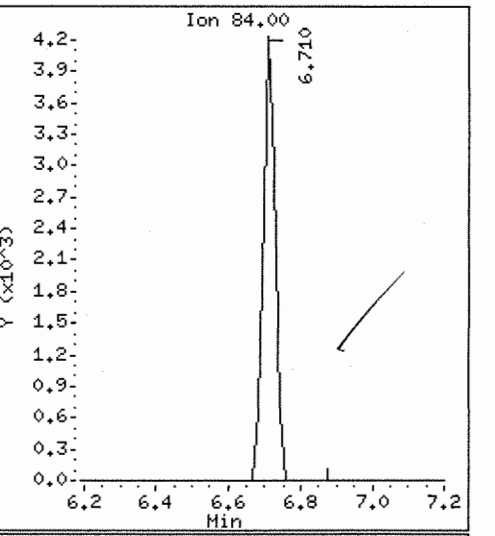
22 Methylene chloride Concentration: 0.411 ug/L

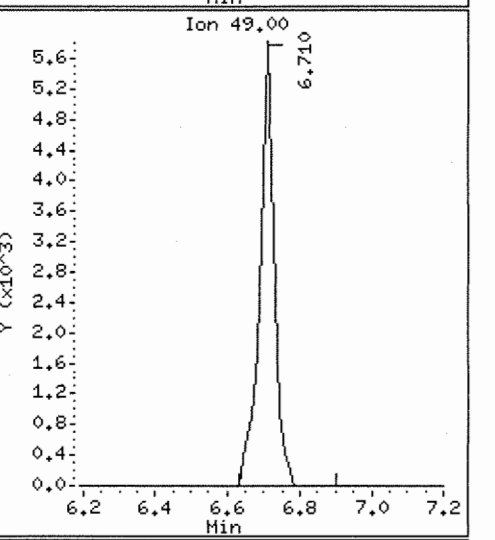


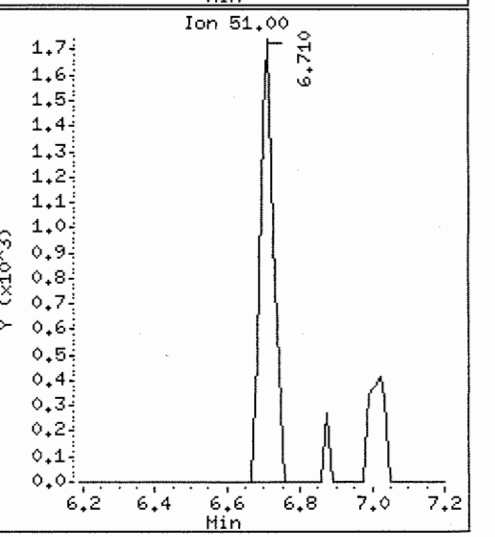












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

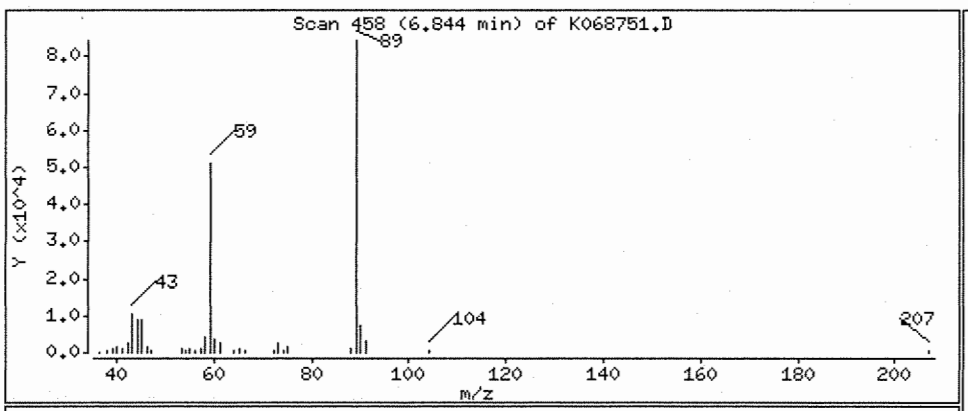
Client ID: T-55-GW-40 Instrument: MSK.i

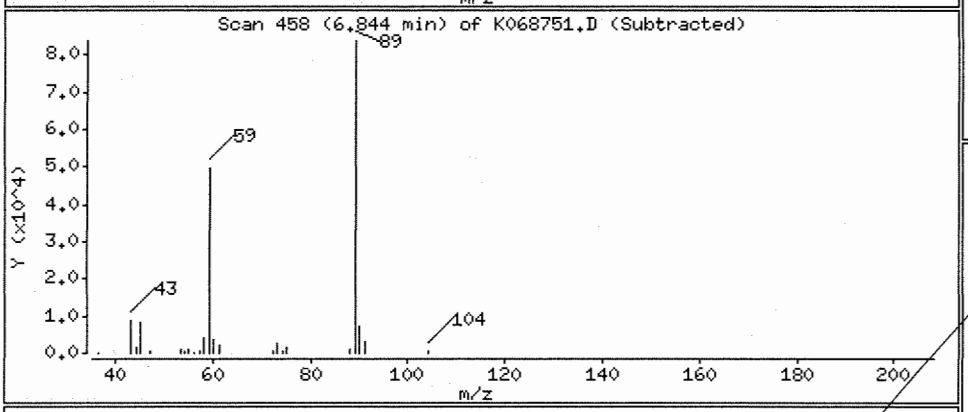
Sample Info: D0602139-007

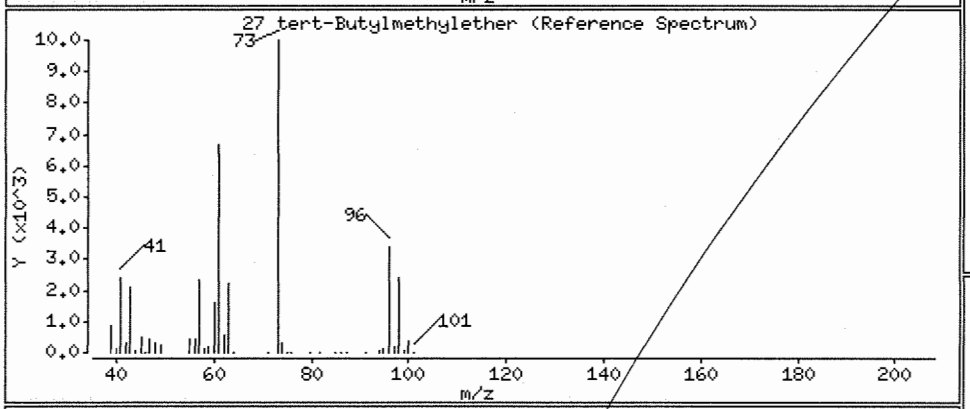
Purge Volume: 10.0 Operator: X

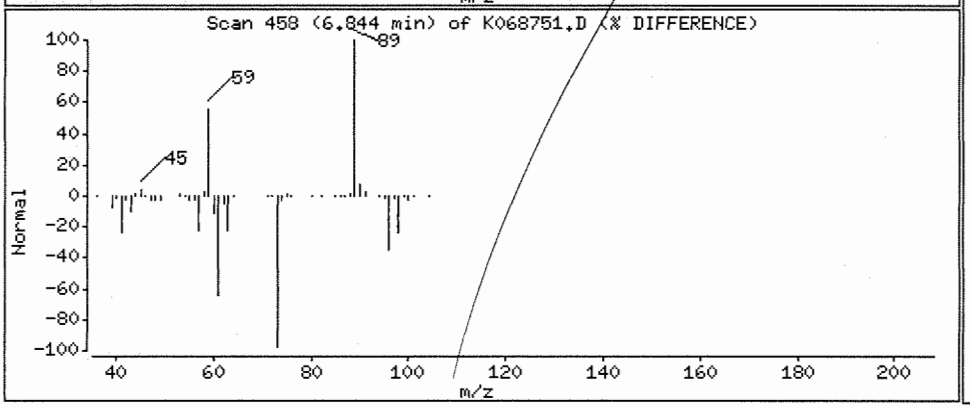
Column phase: DB-624 Column diameter: 0.32

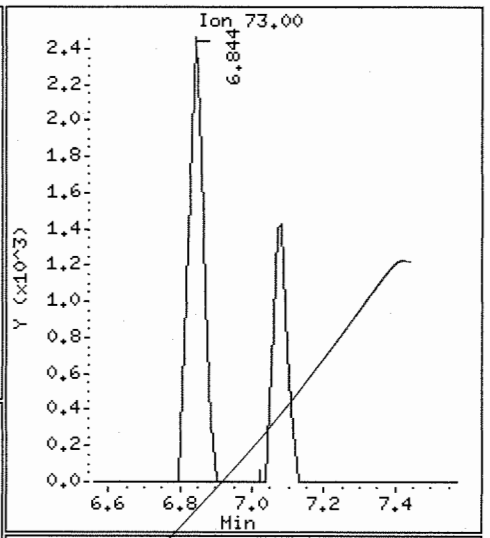
27 tert-Butylmethylether Concentration: 0.154 ug/L

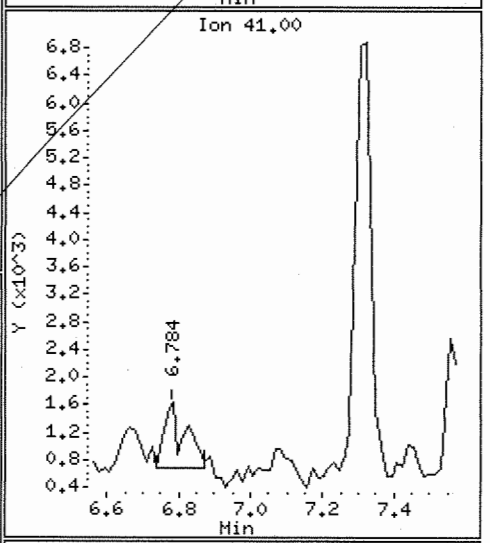


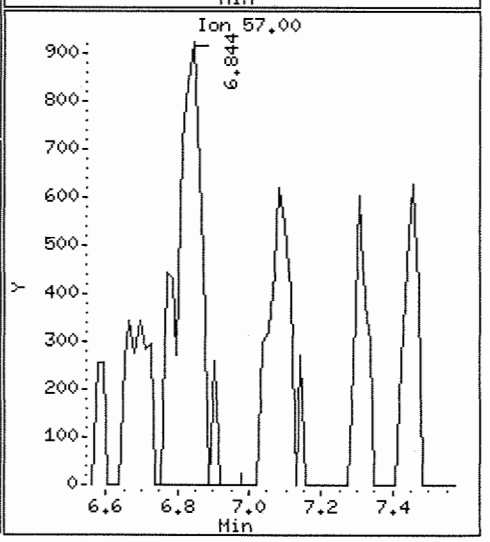












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

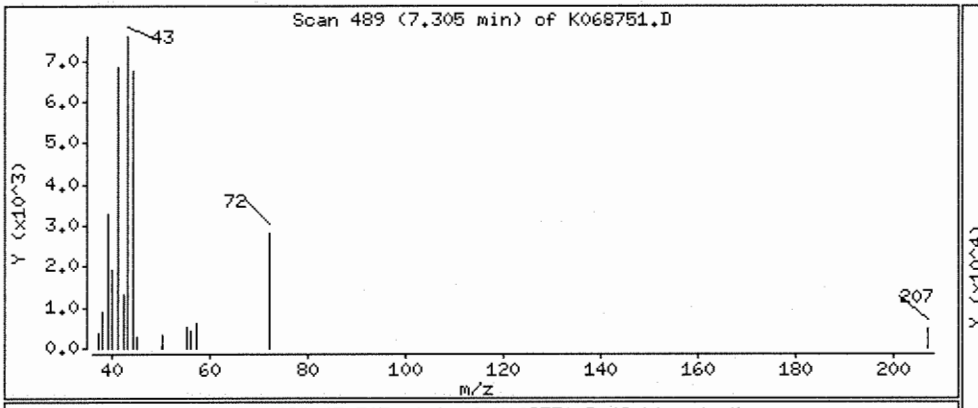
Client ID: T-55-GW-40 Instrument: MSK.i

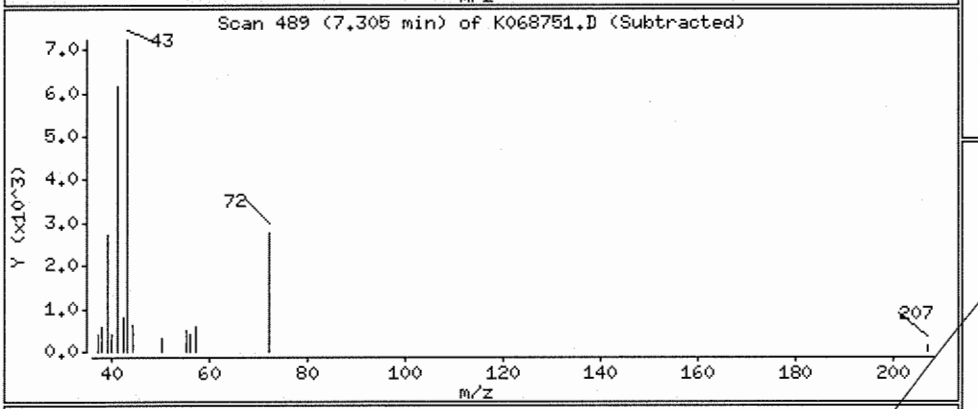
Sample Info: D0602139-007

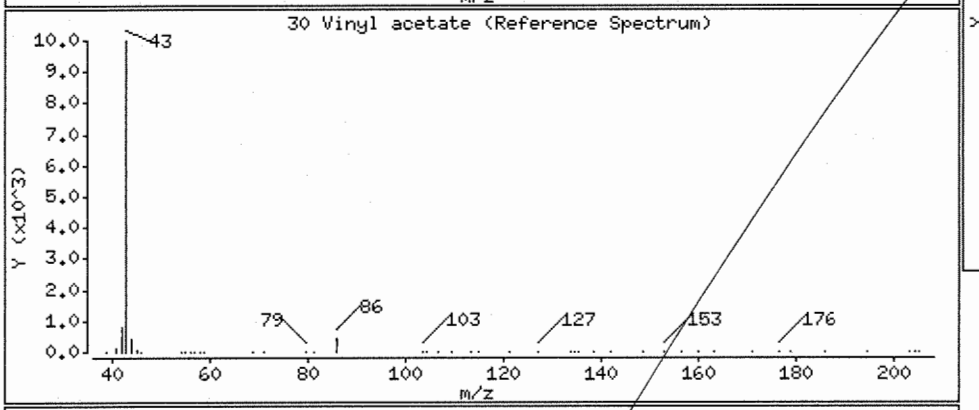
Purge Volume: 10.0 Operator: X

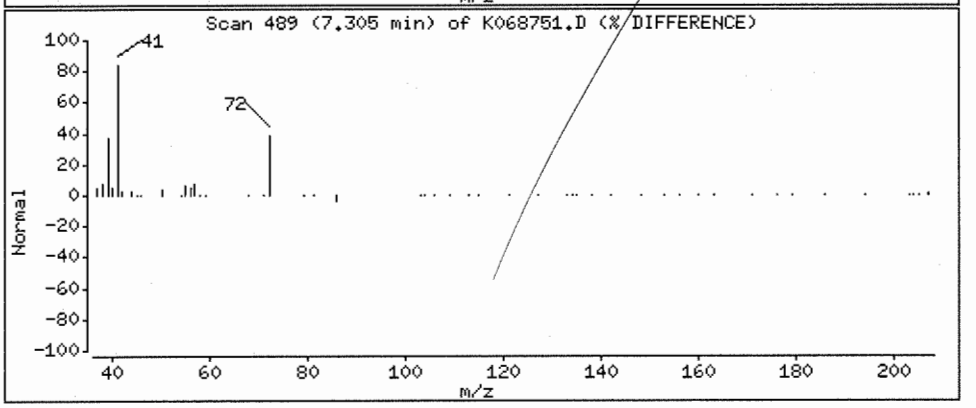
Column phase: DB-624 Column diameter: 0.32

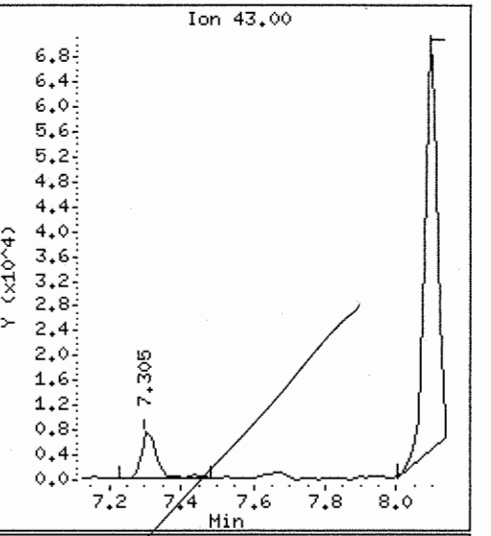
30 Vinyl acetate Concentration: 0.291 ug/L

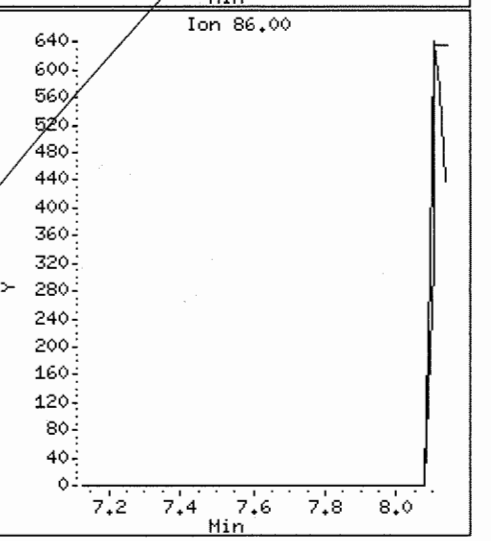












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

Client ID: T-55-GW-40

Instrument: MSK.i

Sample Info: D0602139-007

Purge Volume: 10.0

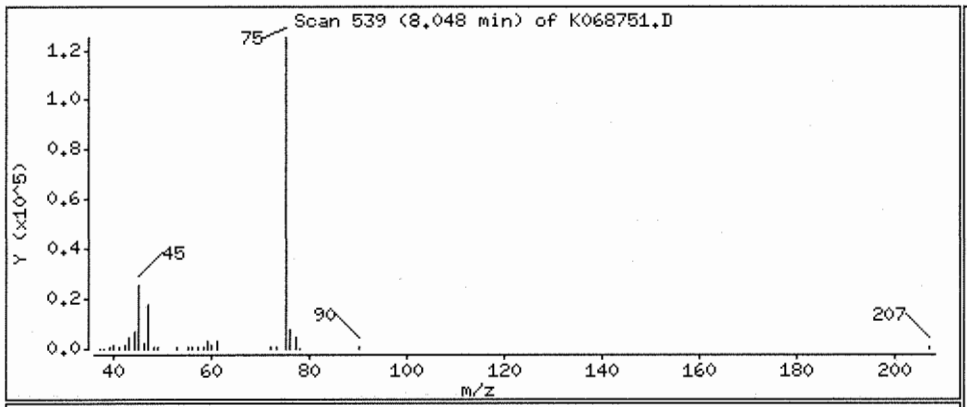
Operator: X

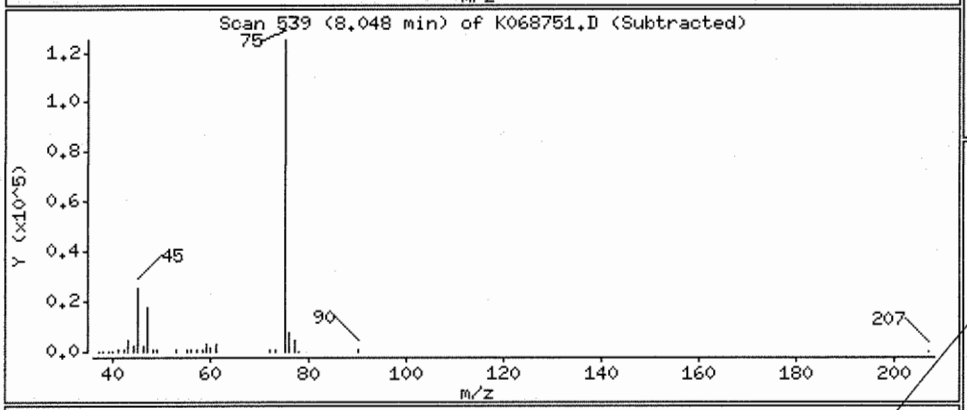
Column phase: DB-624

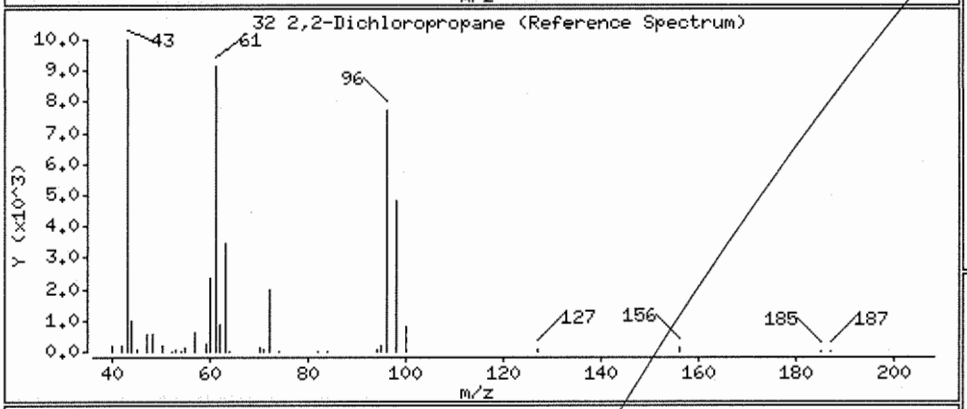
Column diameter: 0.32

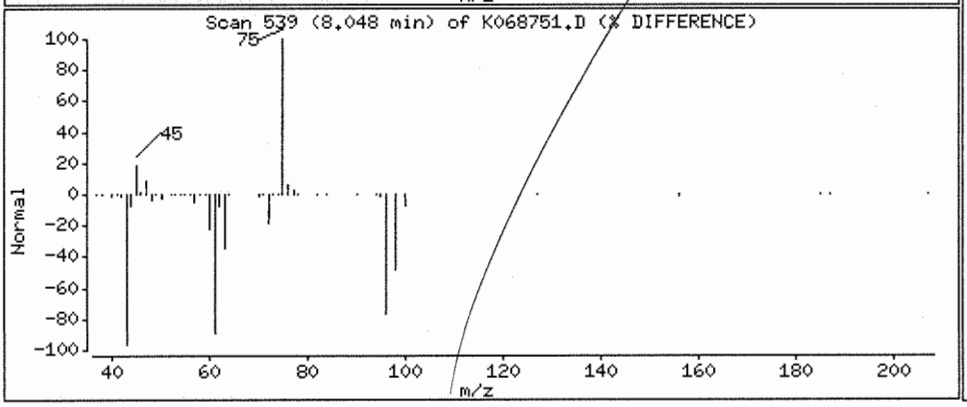
32 2,2-Dichloropropane

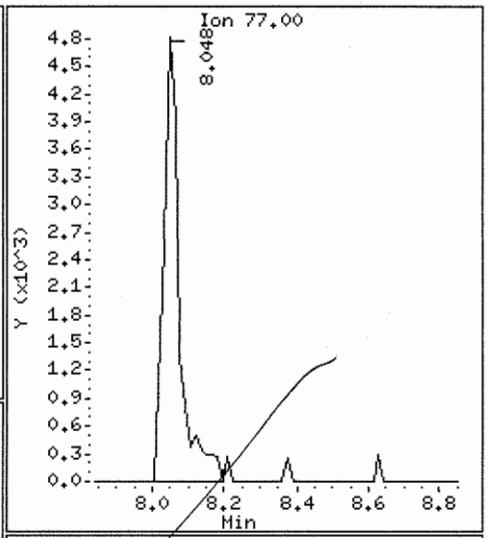
Concentration: 0.455 ug/L

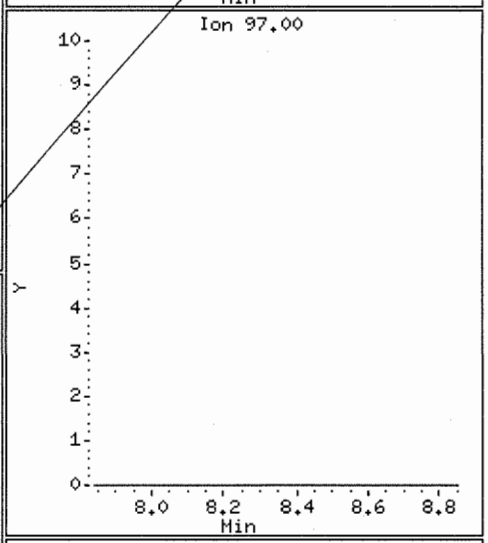


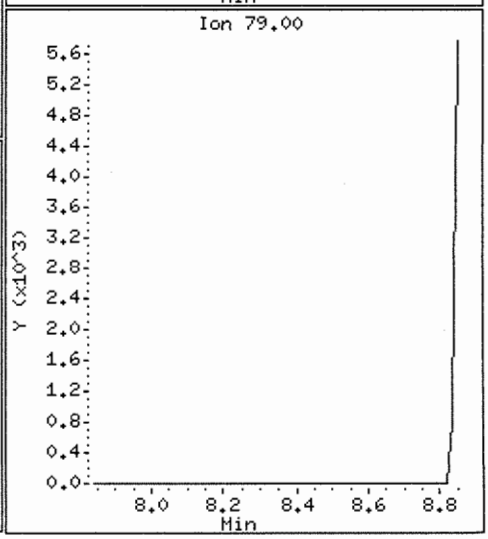












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

Client ID: T-55-GW-40

Instrument: MSK.i

Sample Info: D0602139-007

Purge Volume: 10.0

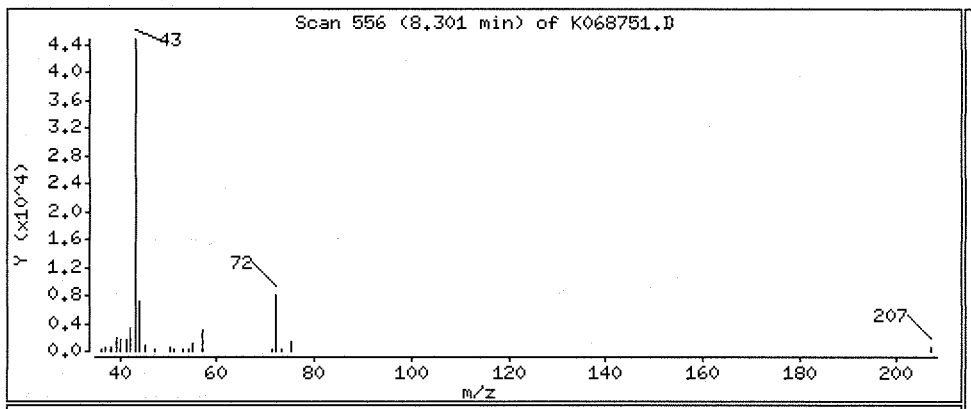
Operator: X

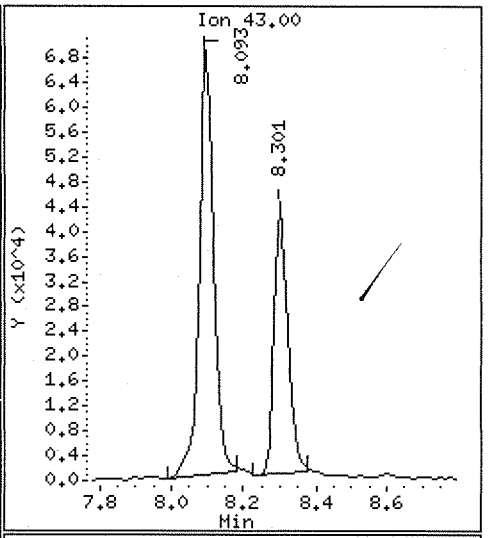
Column phase: DB-624

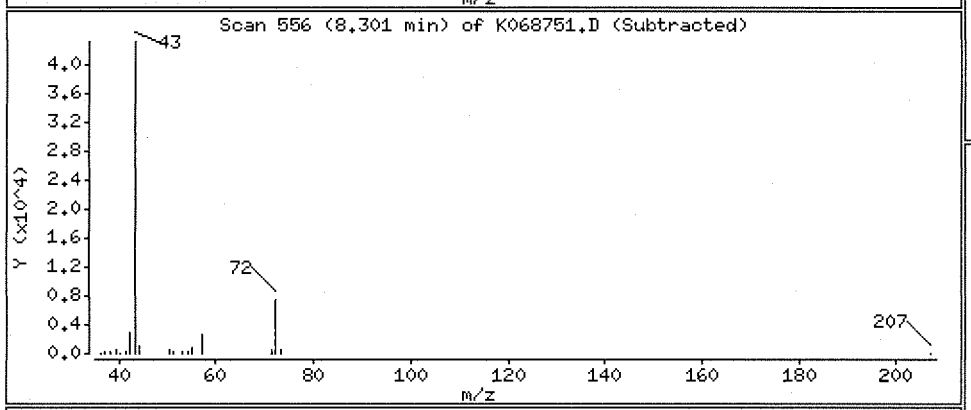
Column diameter: 0.32

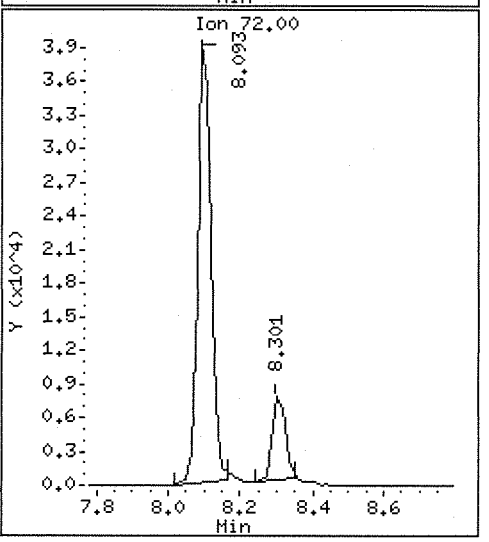
35 2-Butanone

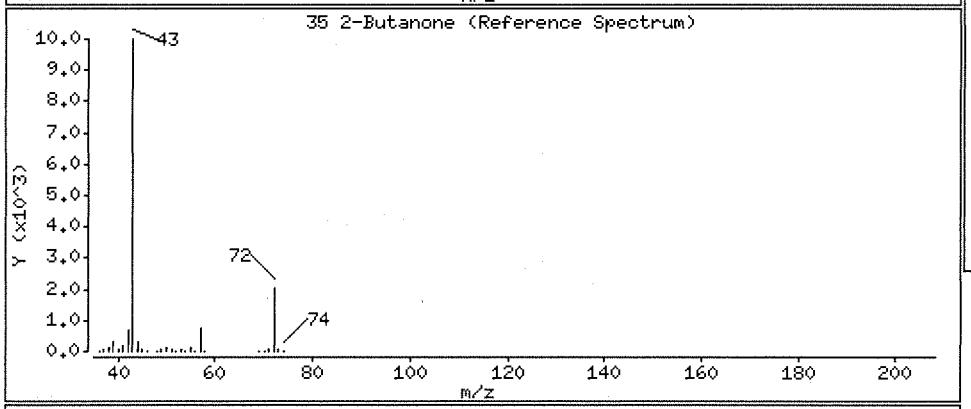
Concentration: 16.1 ug/L

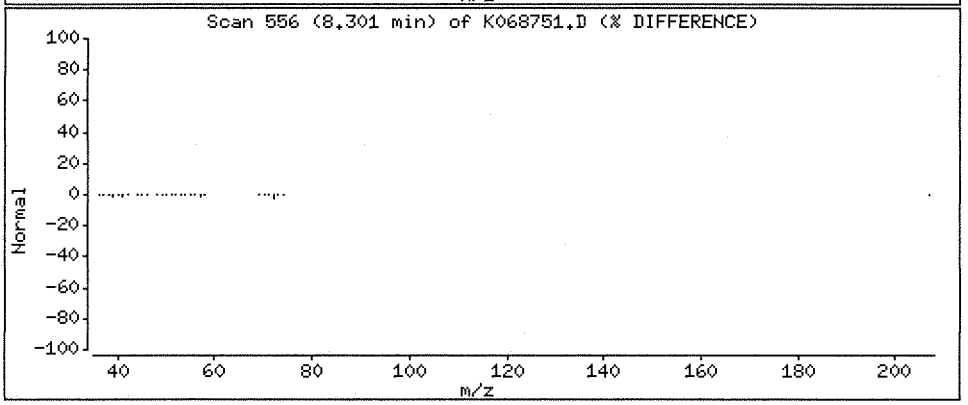












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

Client ID: T-55-GW-40

Instrument: MSK.i

Sample Info: D0602139-007

Purge Volume: 10.0

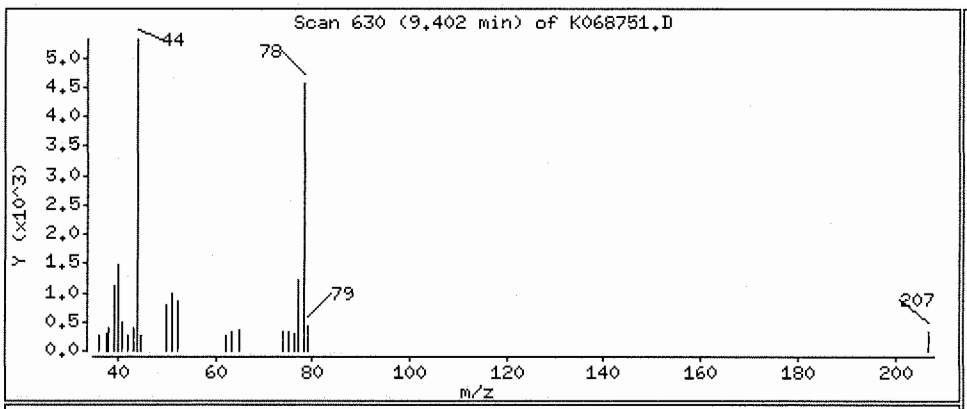
Operator: X

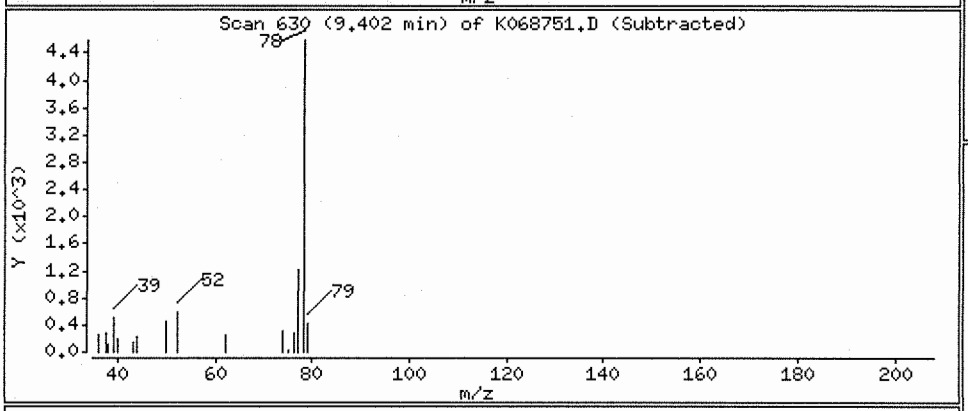
Column phase: DB-624

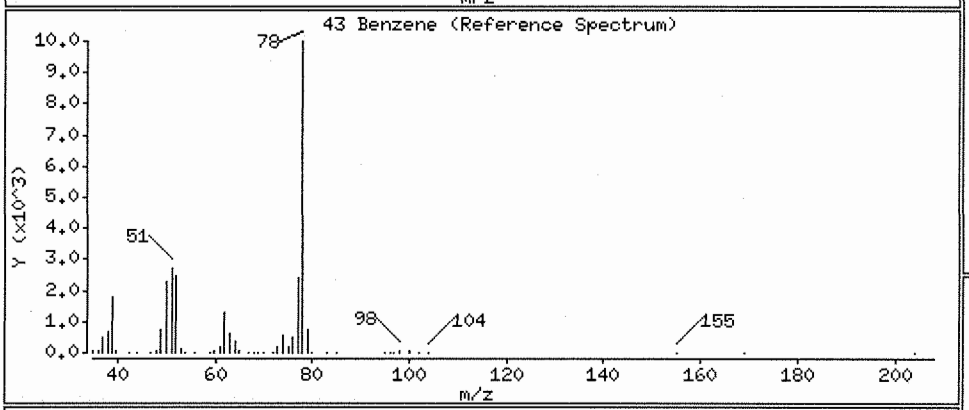
Column diameter: 0.32

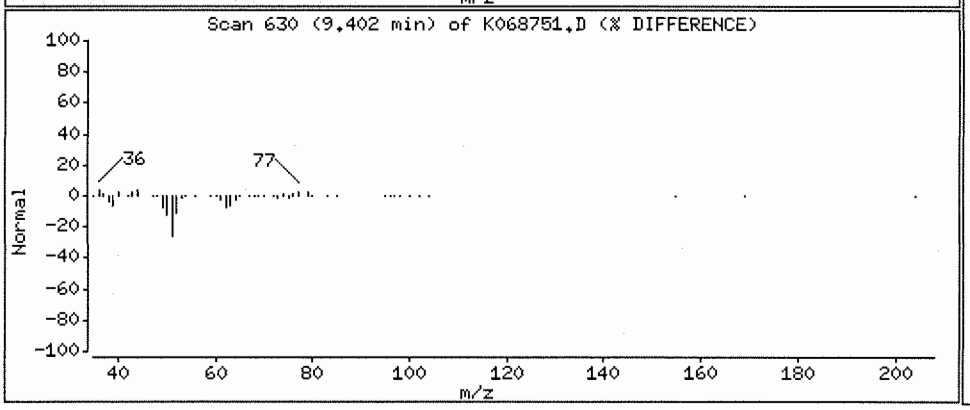
43 Benzene

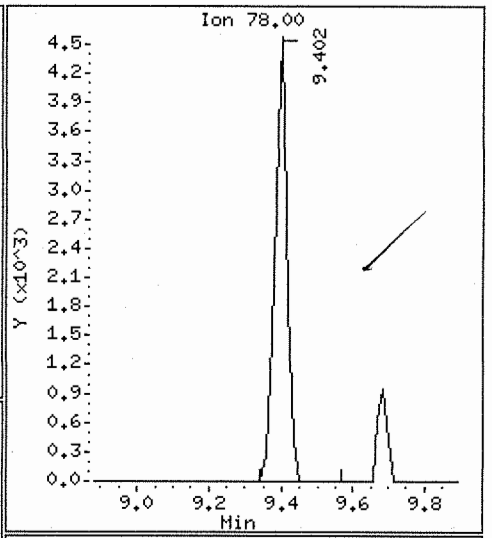
Concentration: 0.137 ug/L

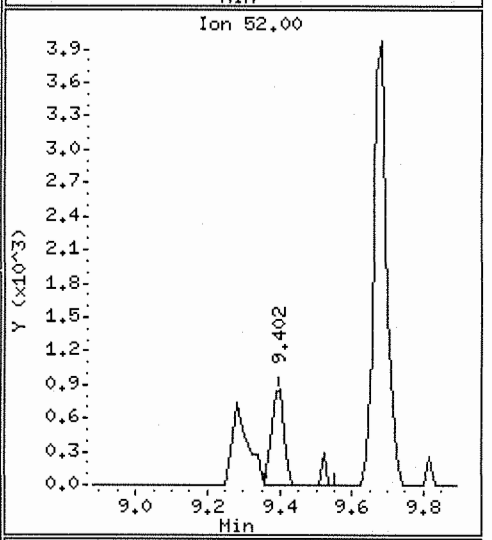


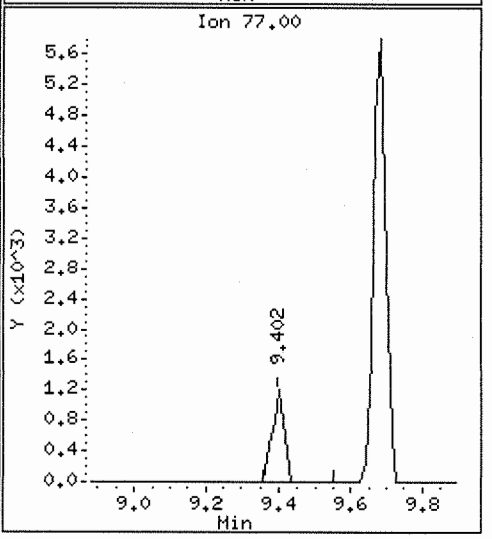












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

Client ID: T-55-GW-40

Instrument: MSK.i

Sample Info: D0602139-007

Purge Volume: 10.0

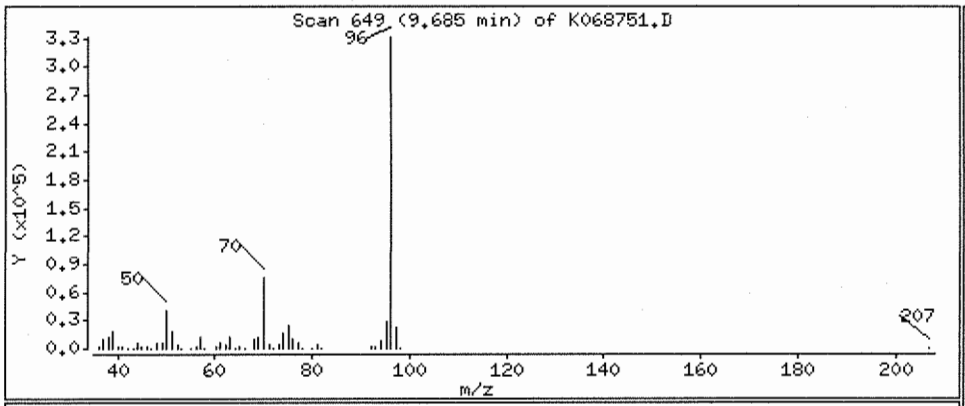
Operator: X

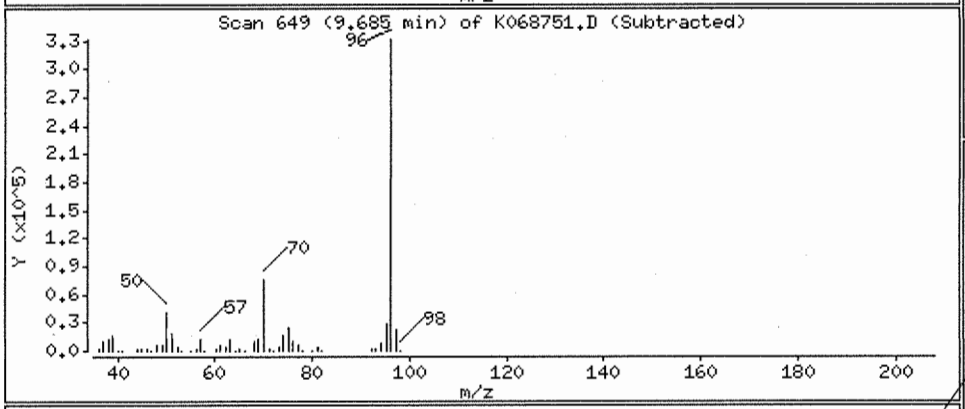
Column phase: DB-624

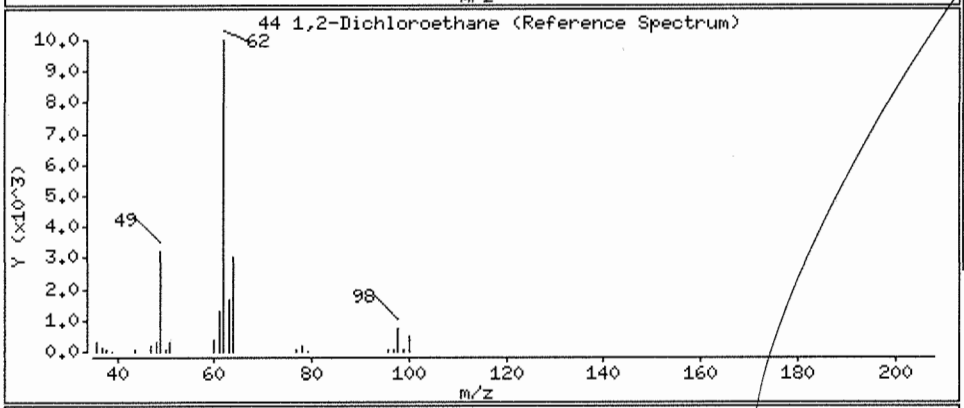
Column diameter: 0.32

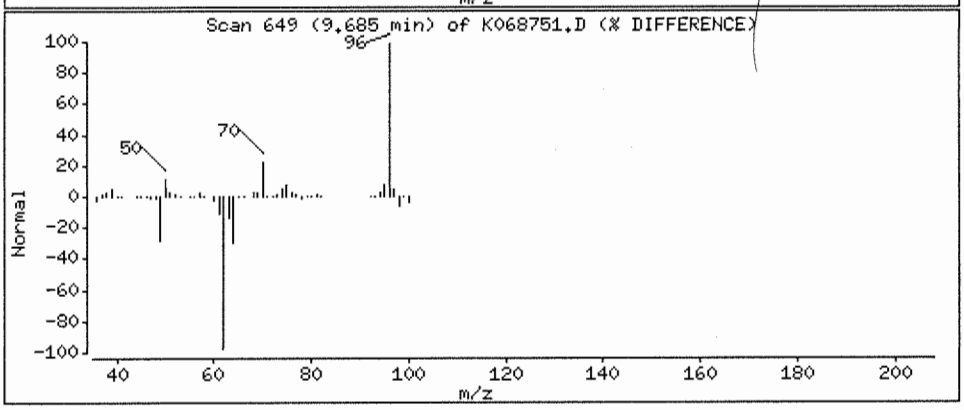
44 1,2-Dichloroethane

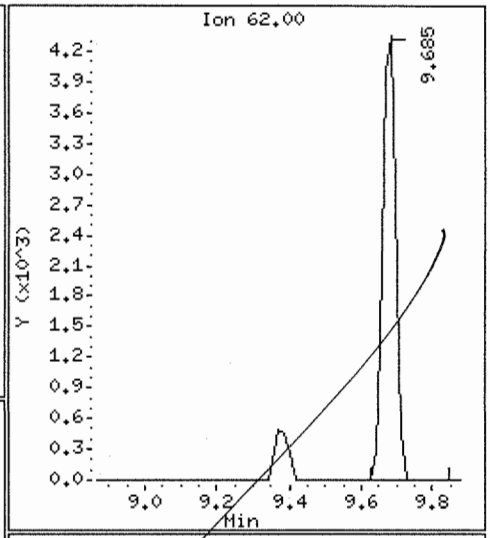
Concentration: 0.375 ug/L

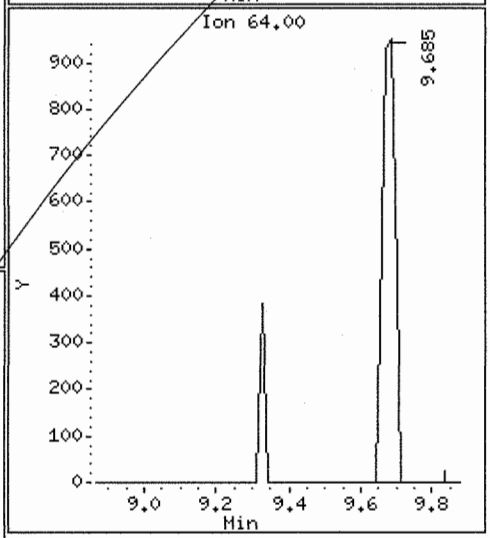












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

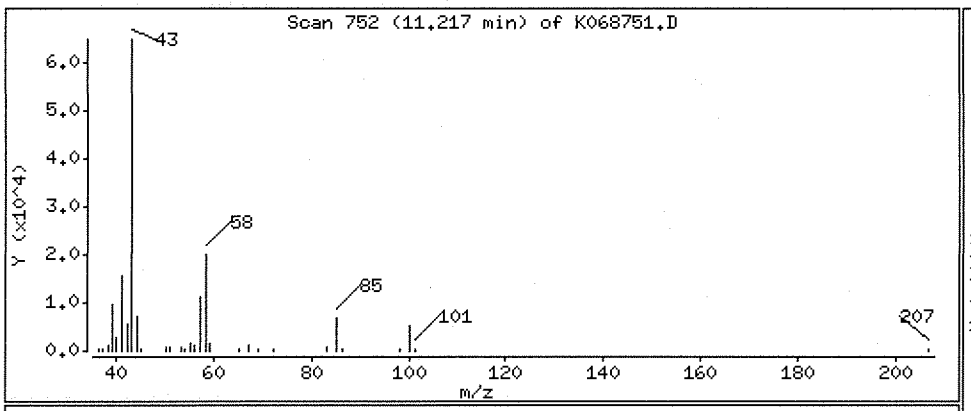
Client ID: T-55-GW-40 Instrument: MSK.i

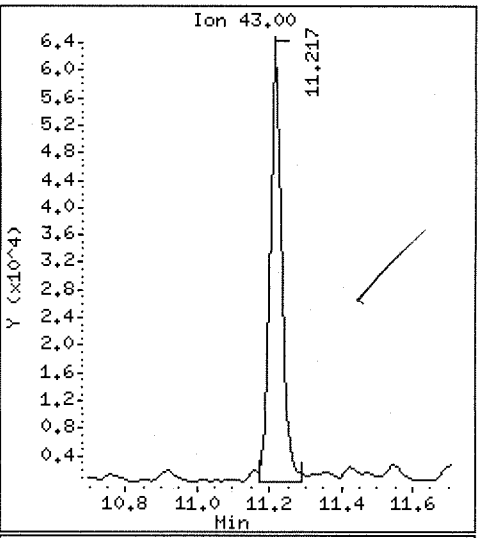
Sample Info: D0602139-007

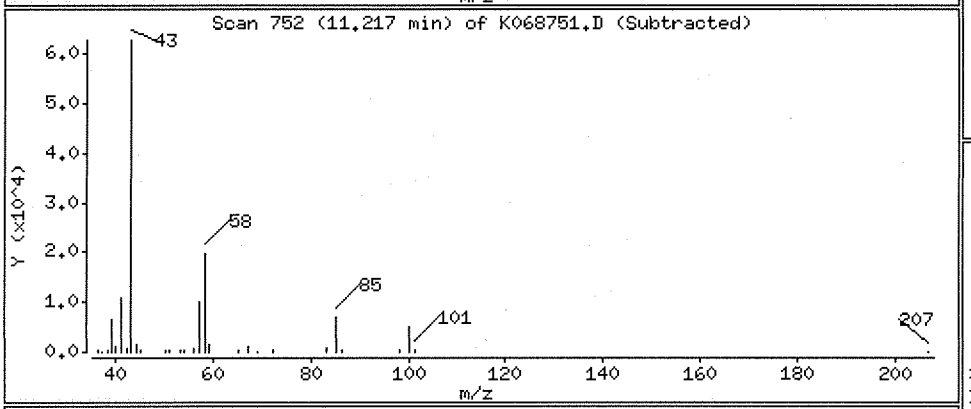
Purge Volume: 10.0 Operator: X

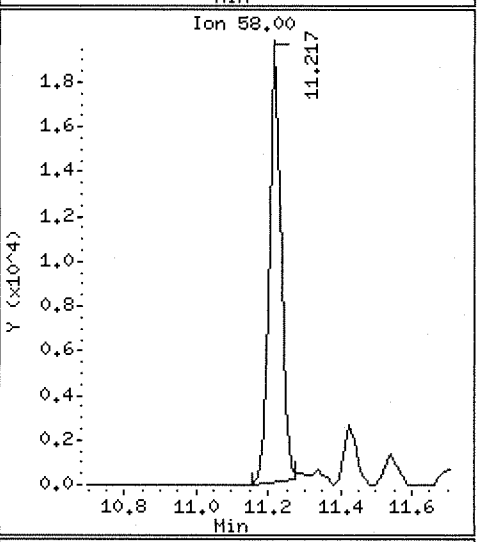
Column phase: DB-624 Column diameter: 0.32

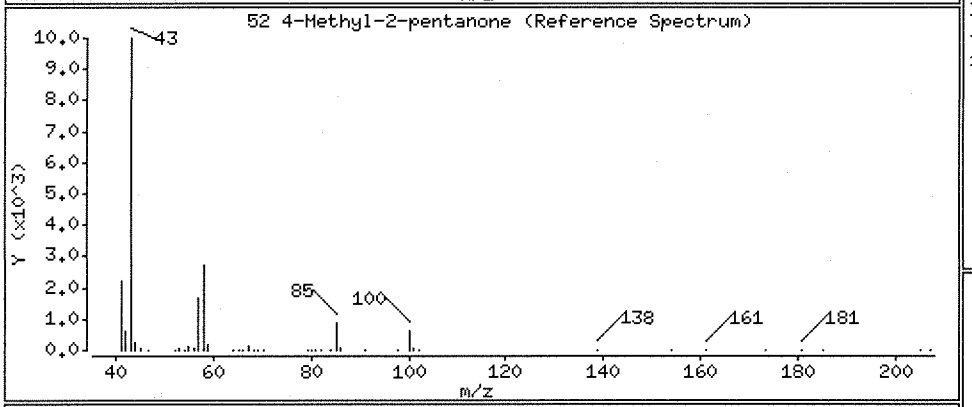
52 4-Methyl-2-pentanone Concentration: 9.06 ug/L

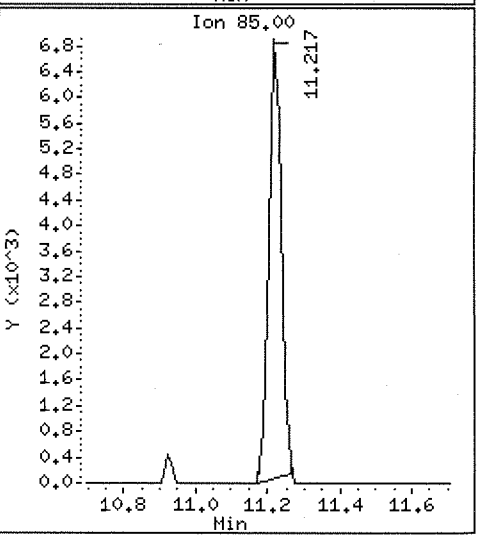


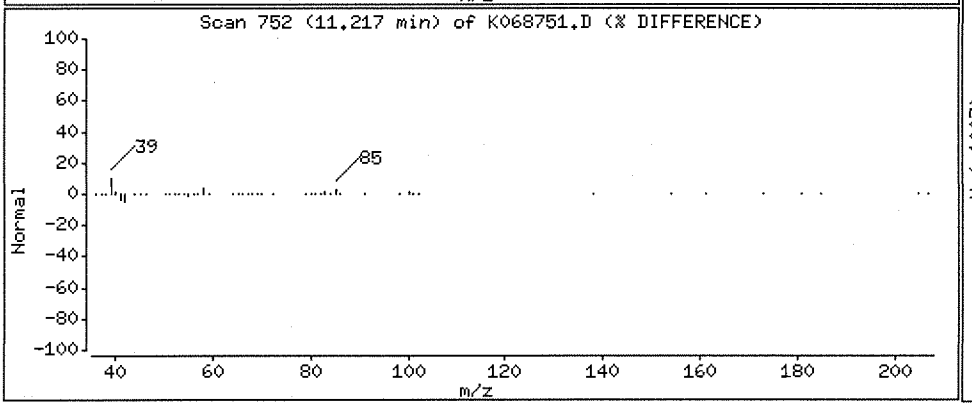












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

Client ID: T-55-GW-40

Instrument: MSK.i

Sample Info: D0602139-007

Purge Volume: 10.0

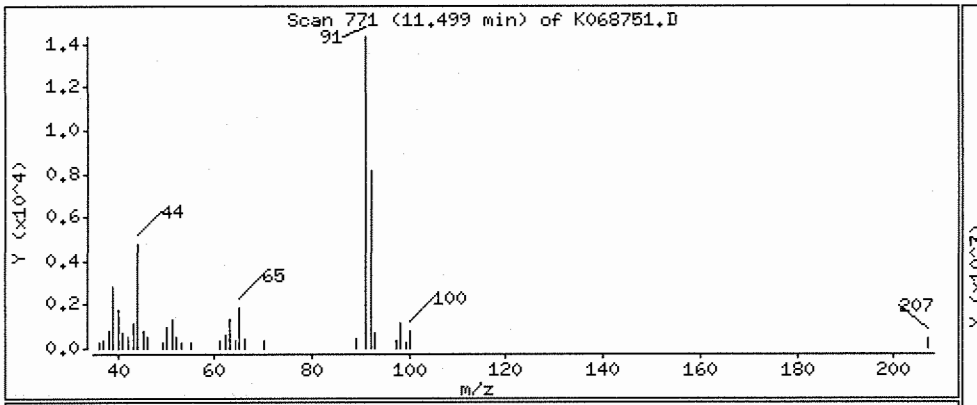
Operator: X

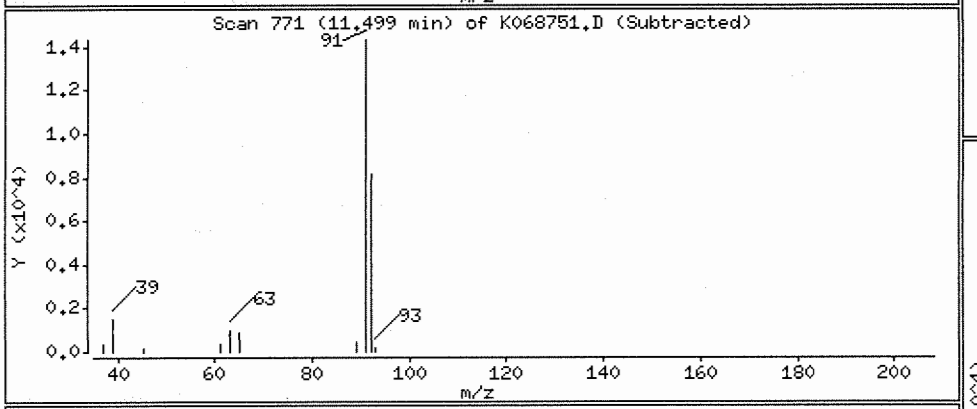
Column phase: DB-624

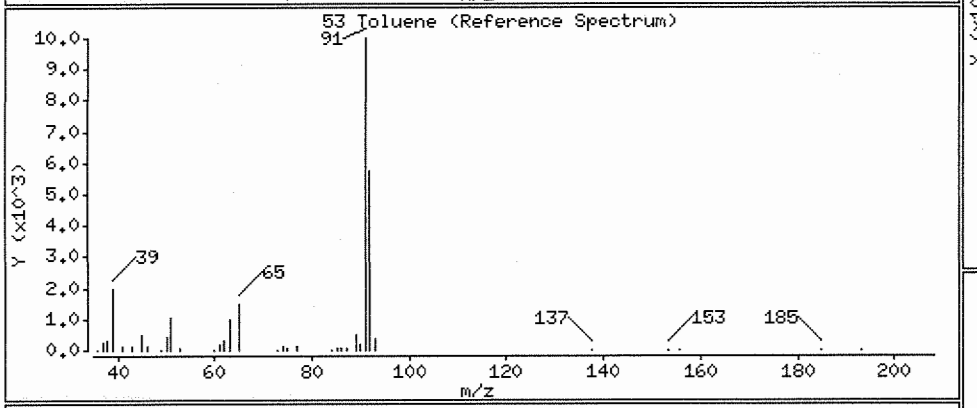
Column diameter: 0.32

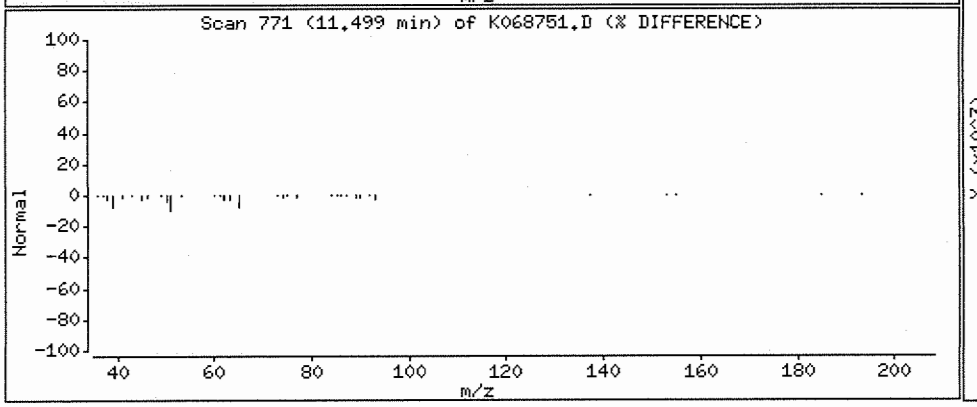
53 Toluene

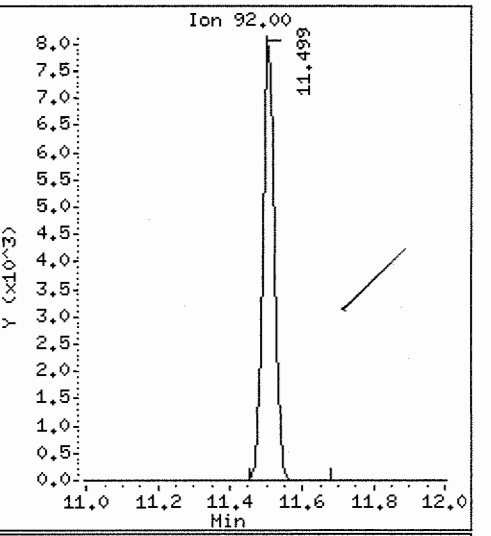
Concentration: 0.382 ug/L

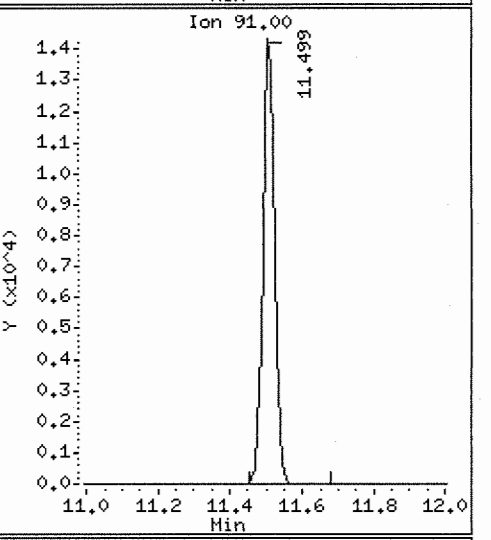


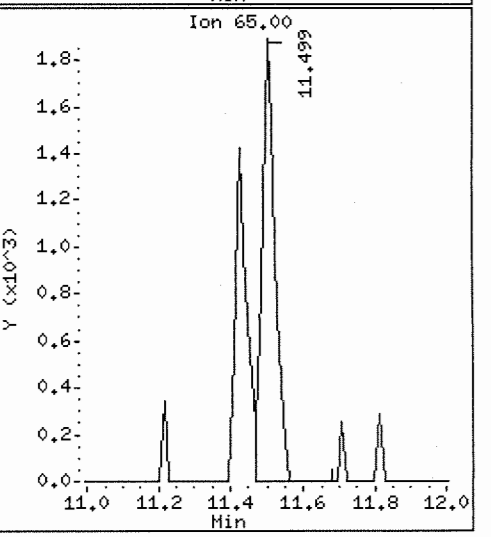












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

Client ID: T-55-GW-40

Instrument: MSK.i

Sample Info: D0602139-007

Purge Volume: 10.0

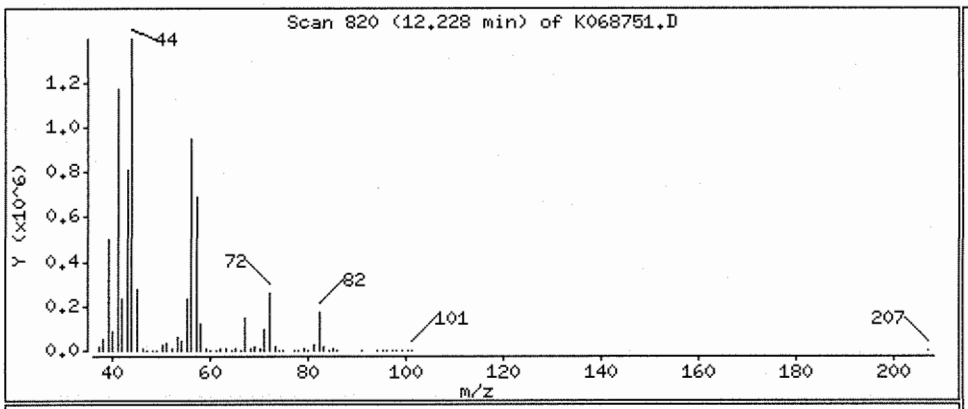
Operator: X

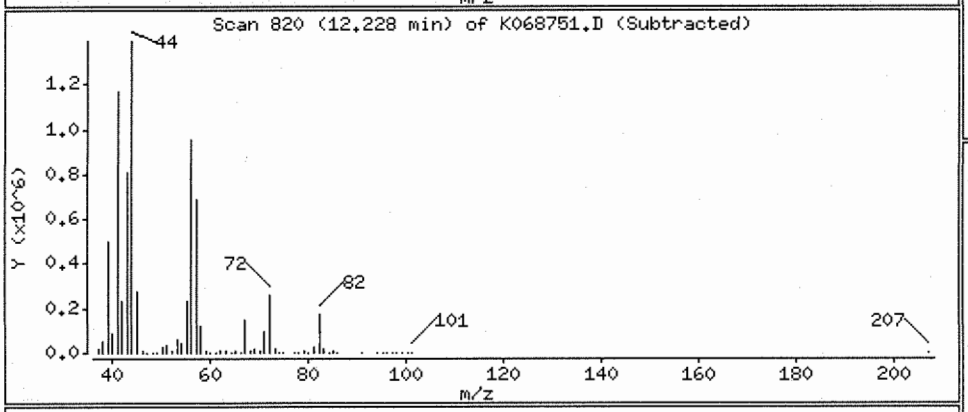
Column phase: DB-624

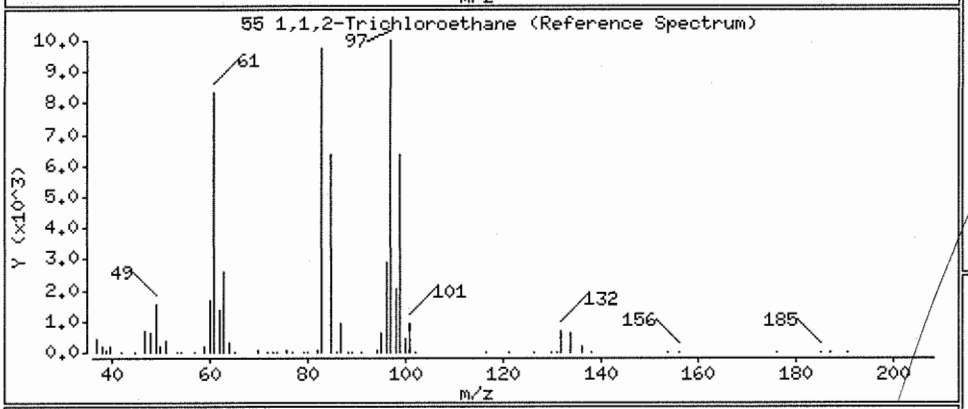
Column diameter: 0.32

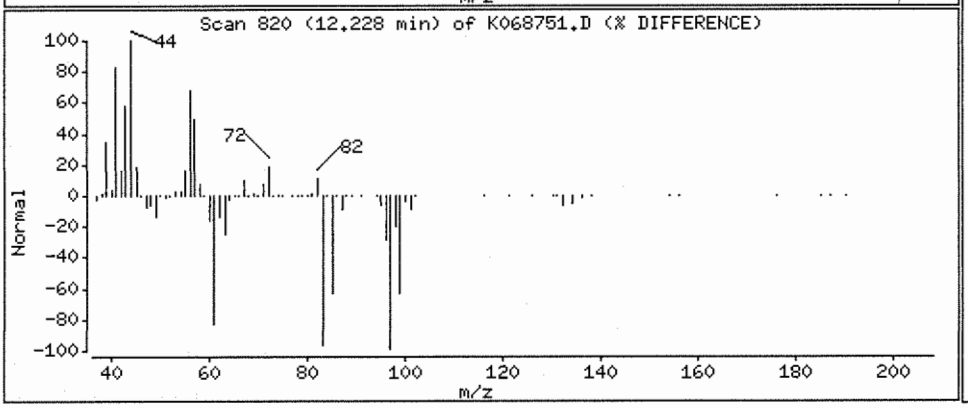
55 1,1,2-Trichloroethane

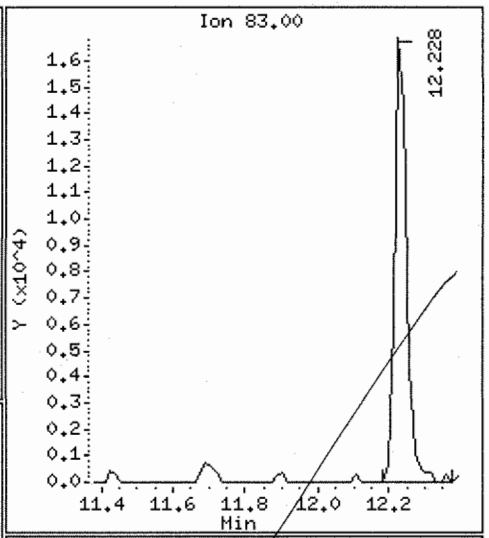
Concentration: 2.71 ug/L

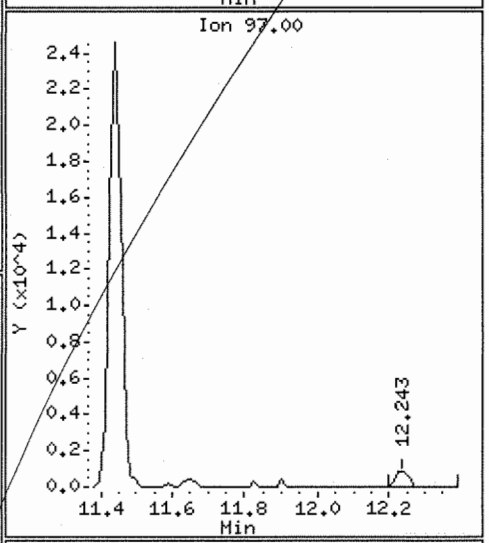


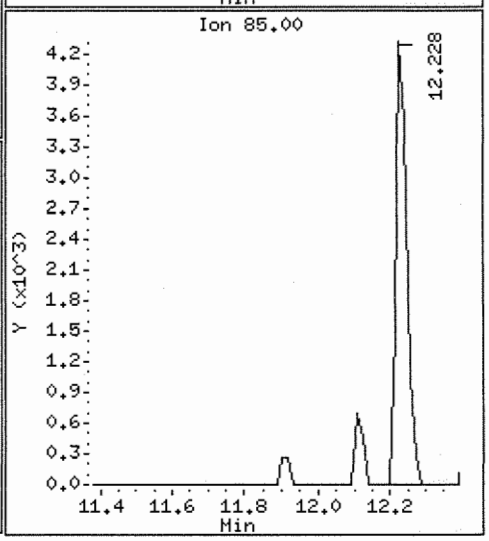












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

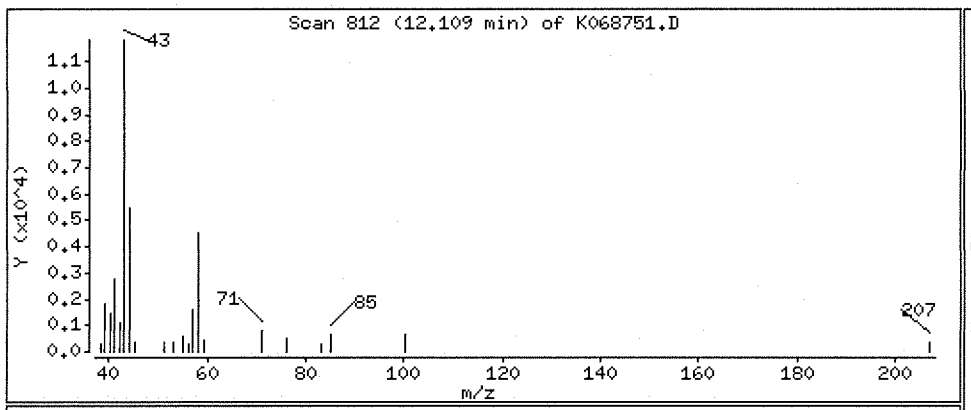
Client ID: T-55-GW-40 Instrument: MSK.i

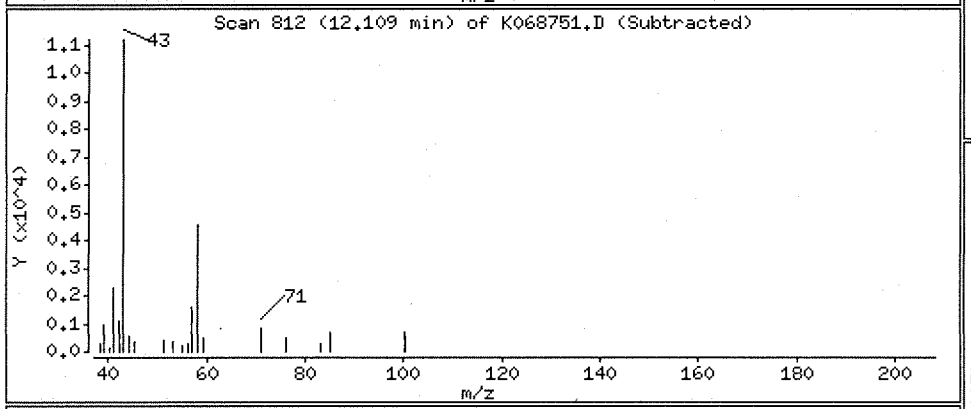
Sample Info: D0602139-007

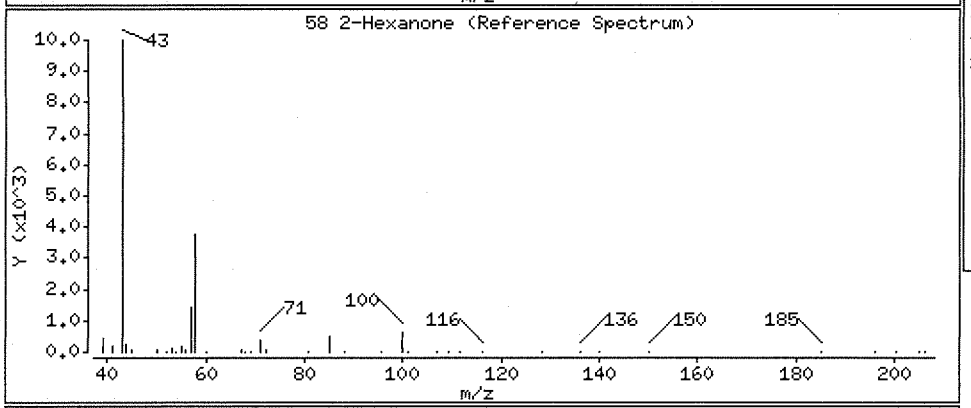
Purge Volume: 10.0 Operator: X

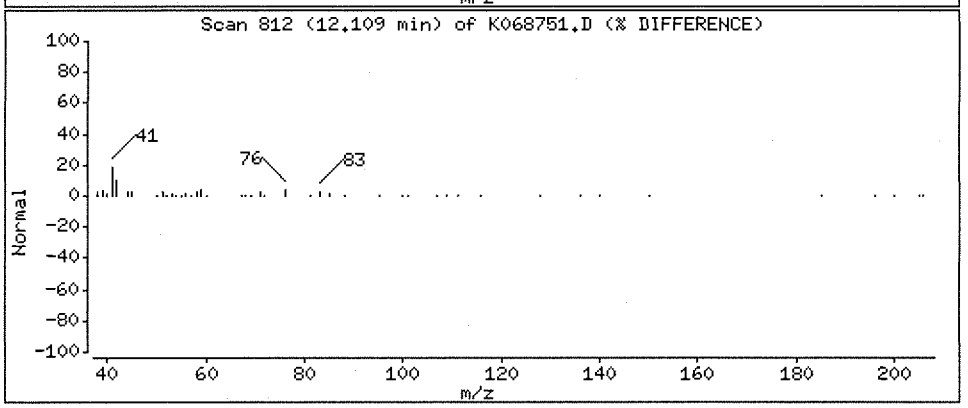
Column phase: DB-624 Column diameter: 0.32

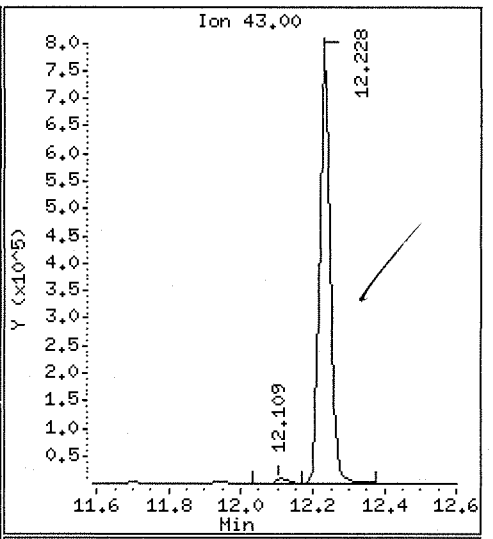
58 2-Hexanone Concentration: 2.24 ug/L

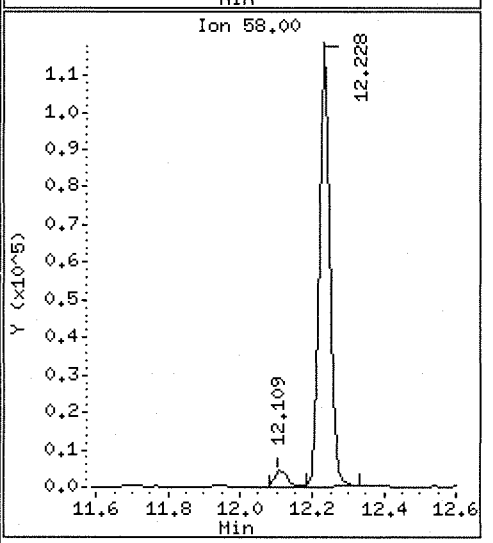












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068751.D

Date : 29-DEC-2006 17:14

Client ID: T-55-GW-40

Instrument: MSK.i

Sample Info: D0602139-007

Purge Volume: 10.0

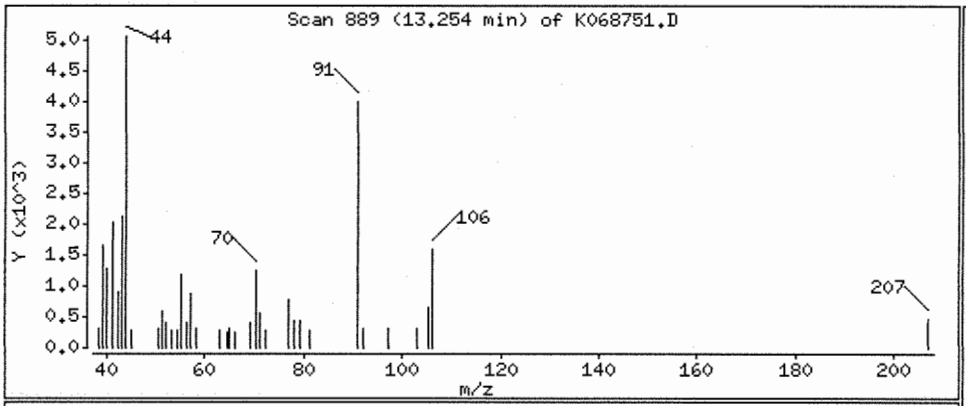
Operator: X

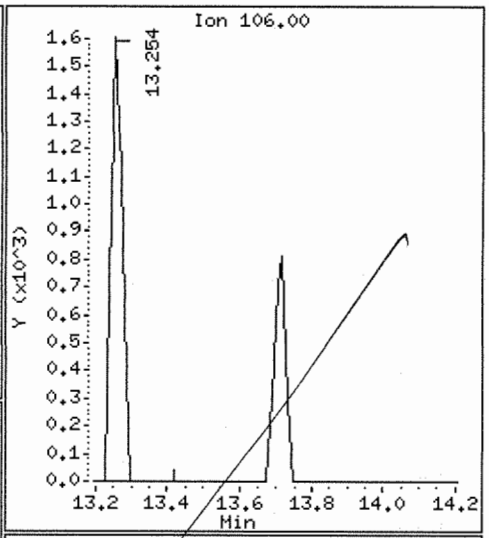
Column phase: DB-624

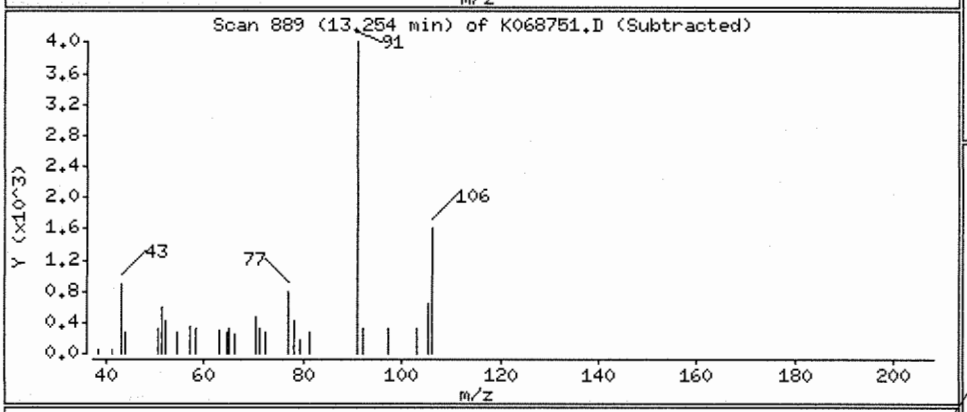
Column diameter: 0.32

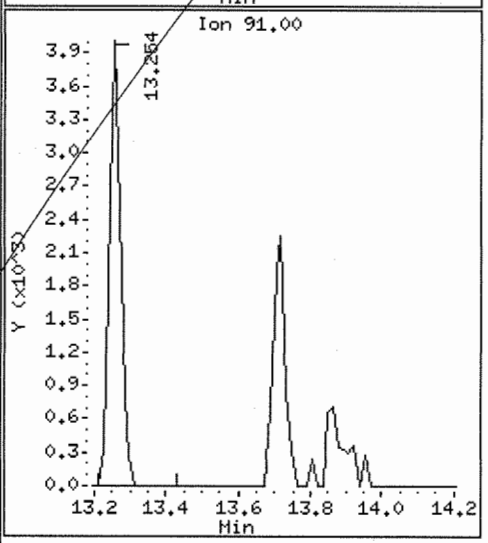
66 o-Xylene

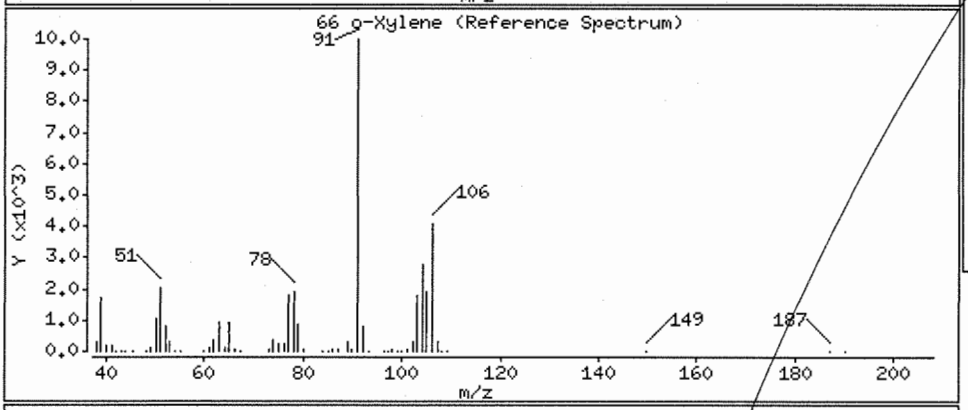
Concentration: 0.108 ug/L

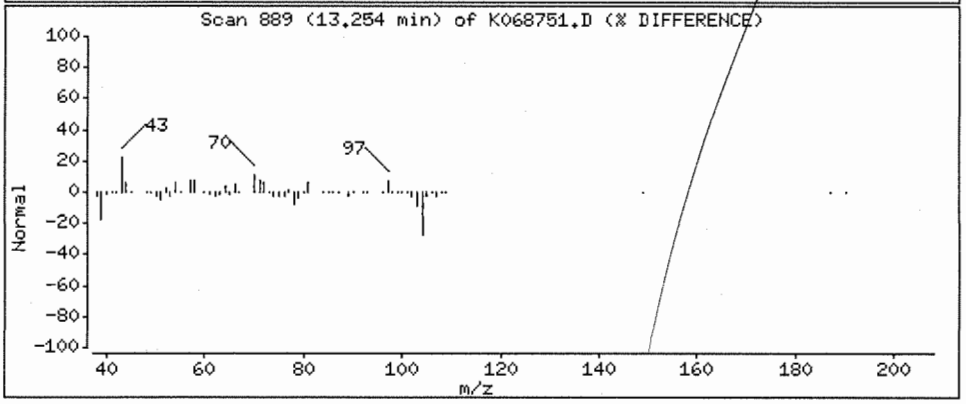












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-55-GW-70
Lab Code: D0602139-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloromethane	**0.34**	J	0.24	1.0	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Chloride	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromomethane	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chloroethane	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Acetone	**13**		0.91	10	1	12/29/2006	12/29/2006	K1229W01	
Carbon Disulfide	**0.84**	J	0.14	2.0	1	12/29/2006	12/29/2006	K1229W01	
Dichloromethane (Methylene Chloride)	**0.44**	J	0.19	2.0	1	12/29/2006	12/29/2006	K1229W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Vinyl Acetate	ND	U	0.24	10	1	12/29/2006	12/29/2006	K1229W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
cis-1,2-Dichloroethene	**0.31**	J	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Butanone (MEK)	**3.1**	J	0.66	10	1	12/29/2006	12/29/2006	K1229W01	
Bromochloromethane	ND	U	0.17	0.50	1	12/29/2006	12/29/2006	K1229W01	
Chloroform	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
Benzene	**0.24**	J	0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	12/29/2006	12/29/2006	K1229W01	
Trichloroethene (TCE)	**35**		0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	12/29/2006	12/29/2006	K1229W01	
Dibromomethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromodichloromethane	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Methyl-2-pentanone (MIBK)	**11**		0.56	10	1	12/29/2006	12/29/2006	K1229W01	
Toluene	**0.68**		0.13	0.50	1	12/29/2006	12/29/2006	K1229W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
2-Hexanone	ND	U	0.49	10	1	12/29/2006	12/29/2006	K1229W01	
Dibromochloromethane	ND	U	0.12	1.0	1	12/29/2006	12/29/2006	K1229W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Collected: 12/20/2006
Date Received: 12/22/2006

Volatile Organic Compounds

Sample Name: T-55-GW-70
Lab Code: D0602139-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	12/29/2006	12/29/2006	K1229W01	
Chlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	12/29/2006	12/29/2006	K1229W01	
Ethylbenzene	ND	U	0.11	0.50	1	12/29/2006	12/29/2006	K1229W01	
Xylenes, Total	ND	U	0.10	1.5	1	12/29/2006	12/29/2006	K1229W01	
Styrene	ND	U	0.070	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromoform	ND	U	0.18	1.0	1	12/29/2006	12/29/2006	K1229W01	
Isopropylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
Bromobenzene	ND	U	0.13	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Propylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	12/29/2006	12/29/2006	K1229W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	12/29/2006	12/29/2006	K1229W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	12/29/2006	12/29/2006	K1229W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	12/29/2006	12/29/2006	K1229W01	
n-Butylbenzene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	12/29/2006	12/29/2006	K1229W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	12/29/2006	12/29/2006	K1229W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	12/29/2006	12/29/2006	K1229W01	
Naphthalene	ND	U	0.10	1.0	1	12/29/2006	12/29/2006	K1229W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	12/29/2006	12/29/2006	K1229W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	105	79-135	12/29/2006	
4-Bromofluorobenzene - SS	110	82-124	12/29/2006	
Dibromofluoromethane - SS	97	84-127	12/29/2006	
Toluene-d8 - SS	90	80-117	12/29/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D
Lab Smp Id: D0602139-008 Client Smp ID: T-55-GW-70
Inj Date : 29-DEC-2006 18:33
Operator : X Inst ID: MSK.i
Smp Info : D0602139-008
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\8260w10(0.5).m
Meth Date : 29-Dec-2006 13:33 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 15:00 Cal File: K068662.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

RO 1/02/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.687	9.670	(1.000)	731874	10.0000	
* 2	Chlorobenzene-d5	117	13.018	13.016	(1.000)	525363	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.606	15.604	(1.000)	261060	10.0000	
$ 4	Dibromofluoromethane	113	8.883	8.866	(0.917)	222645	9.67872	9.68
$ 5	1,2-Dichloroethane-d4	65	9.285	9.283	(0.959)	255709	10.5387	10.5
$ 6	Toluene-d8	98	11.427	11.425	(0.878)	601820	8.96746	8.97
$ 7	Bromofluorobenzene	174	14.283	14.280	(0.915)	247952	10.9662	11.0
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	3.826	3.824	(0.395)	6150	0.33690	0.337(a)
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.391	4.642	(0.453)	1459	0.13142	~~0.131(a)~~
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.072	6.070	(0.627)	59075	13.0607	13.1
21	Carbon disulfide	76	6.429	6.427	(0.664)	59786	0.83786	0.838(a)
22	Methylene chloride	84	6.712	6.695	(0.693)	10140	0.44174	0.442(a)
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	8.095	7.632	(0.836)	24118	0.33569	~~0.336(a)~~
32	2,2-Dichloropropane	77	Compound Not Detected.					

1/2/07

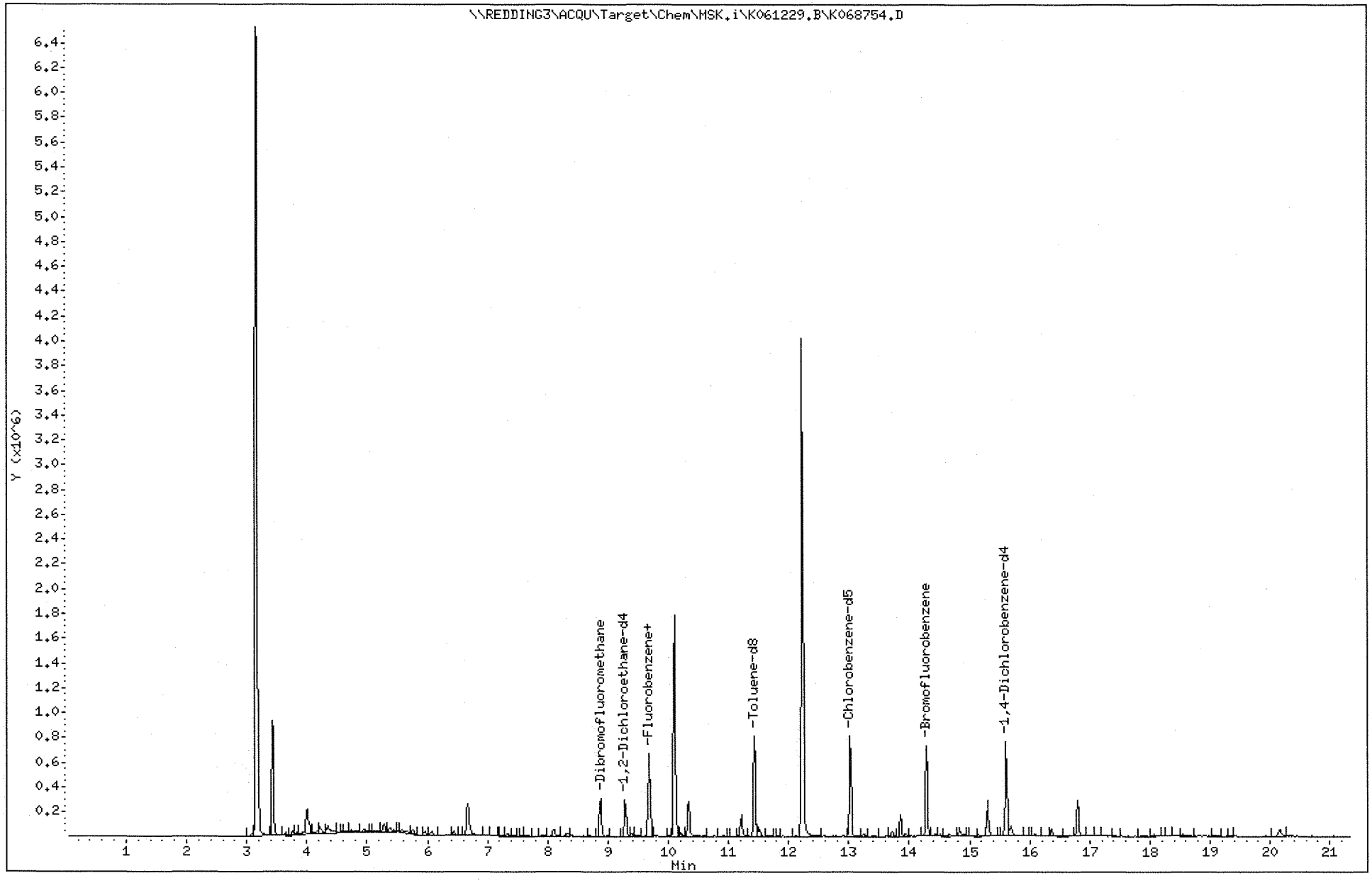
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
33	cis-1,2-Dichloroethene	96	8.333	8.331	(0.860)	7037	0.30975	0.310(a)
35	2-Butanone	43	8.303	8.286	(0.857)	20071	3.11486	3.11(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	9.404	9.387	(0.971)	17822	0.23610	0.236(a)
44	1,2-Dichloroethane	62	9.672	9.372	(0.998)	10896	0.38847	0.388(a)
45	Trichloroethene	95	10.103	10.086	(1.043)	737367	34.9044	34.9
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	11.219	11.202	(1.158)	164755	10.7233	10.7
53	Toluene	92	11.501	11.499	(0.883)	32689	0.68147	0.681
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.230	11.886	(0.939)	21625	1.50798	1.51(a)
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	12.230	12.094	(0.939)	891969	85.5229	85.5
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	13.256	13.135	(1.018)	11405	0.12243	0.122(a)
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	13.256	13.700	(1.018)	4954	0.16297	0.163(a)
M 67	Xylene (total)	106				4954	0.16297	0.163(a)
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D
Date : 29-DEC-2006 18:33
Client ID: T-55-GW-70
Sample Info: D0602139-008
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

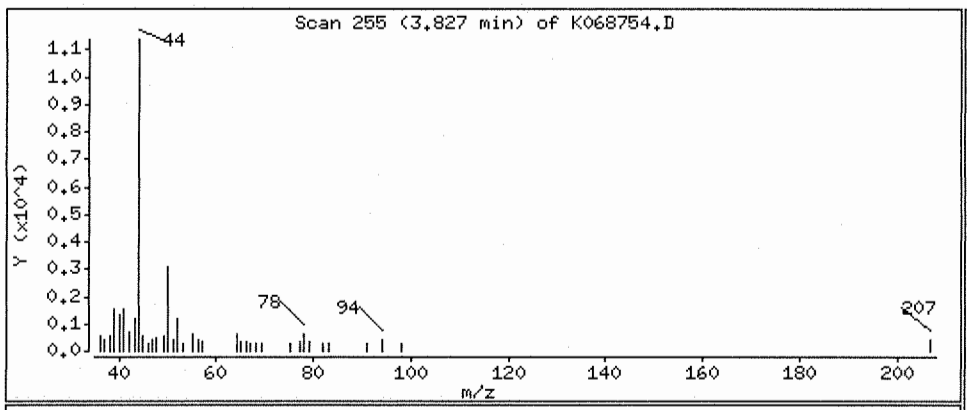
Client ID: T-55-GW-70 Instrument: MSK.i

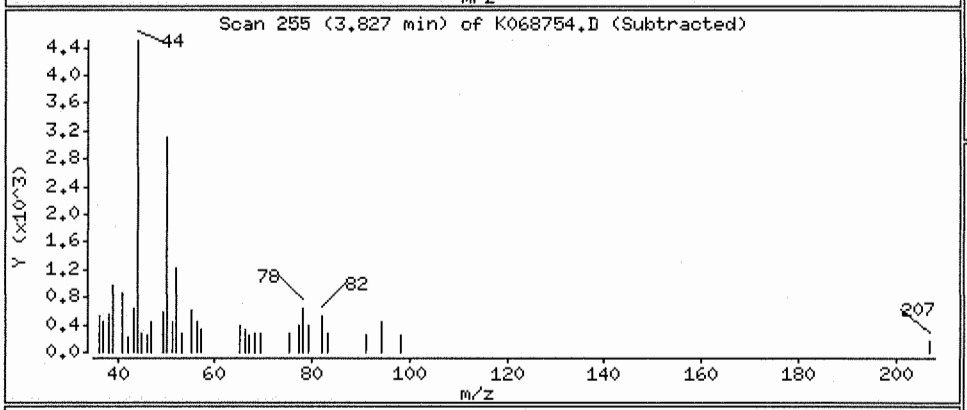
Sample Info: D0602139-008

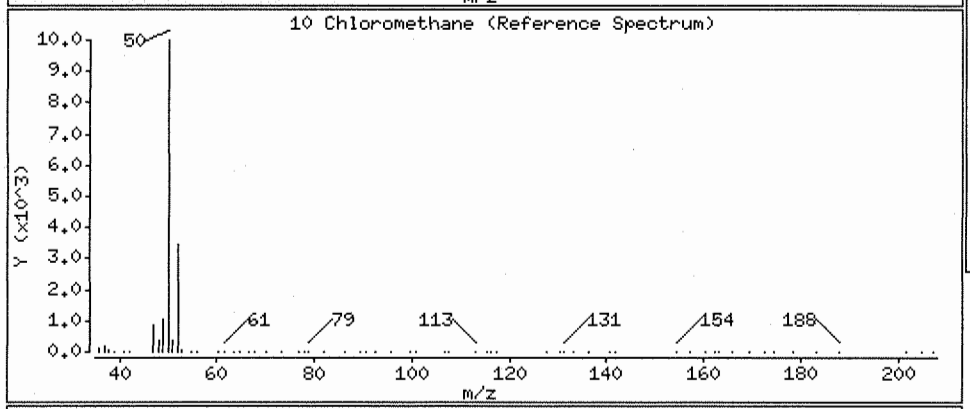
Purge Volume: 10.0 Operator: X

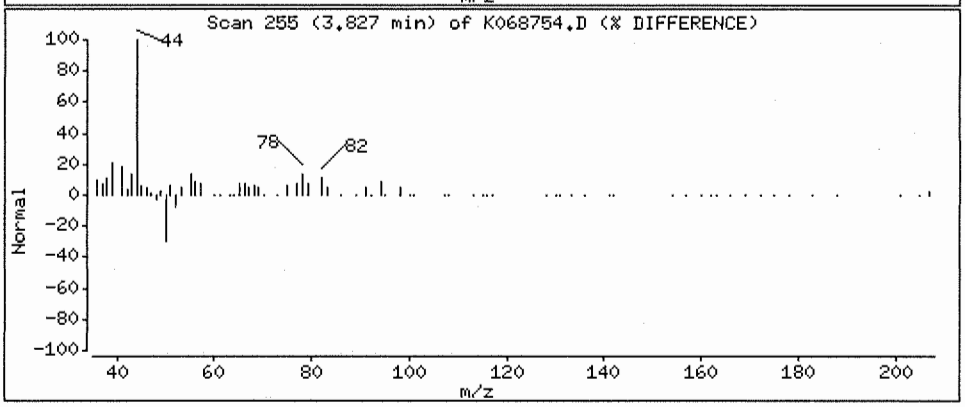
Column phase: DB-624 Column diameter: 0.32

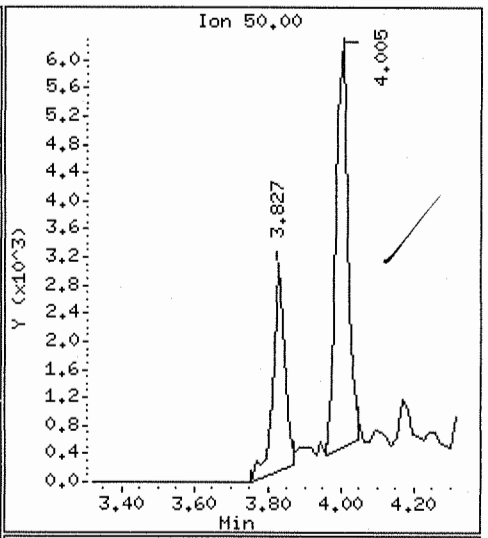
10 Chloromethane Concentration: 0.337 ug/L

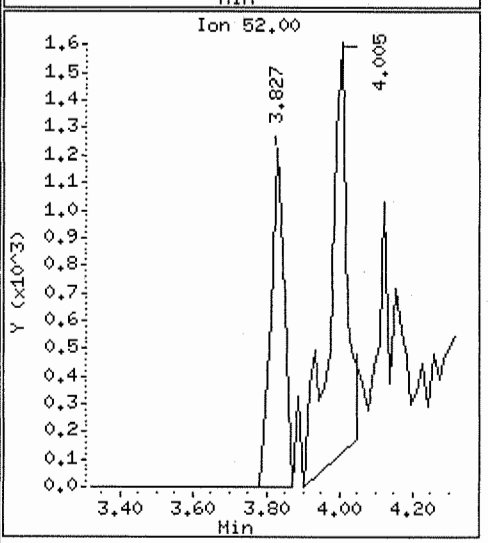












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Date : 29-DEC-2006 18:33

Client ID: T-55-GW-70

Instrument: MSK.i

Sample Info: D0602139-008

Purge Volume: 10.0

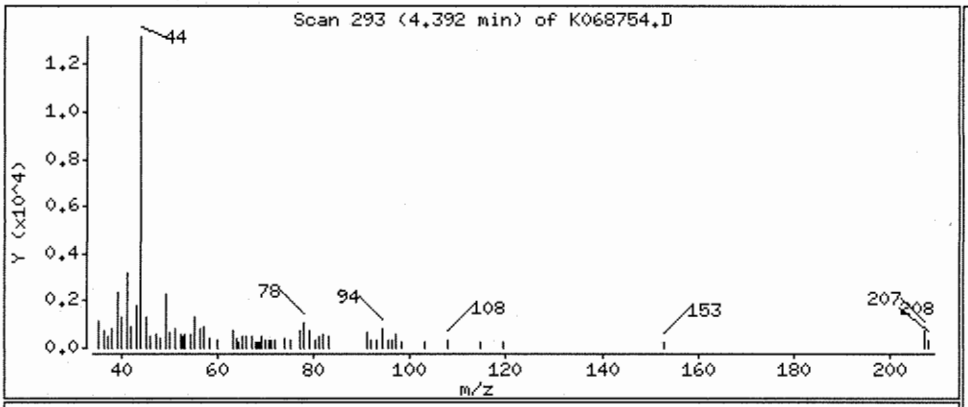
Operator: X

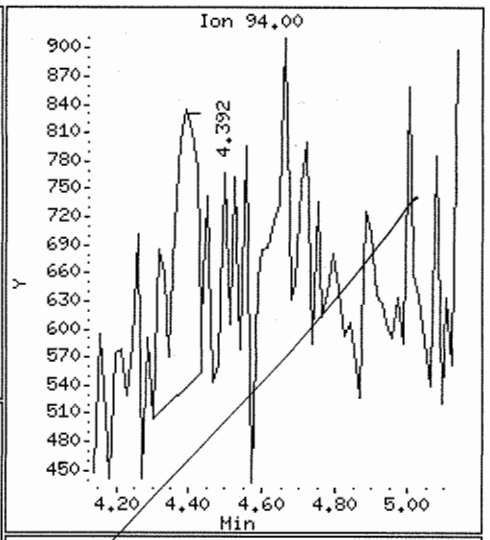
Column phase: DB-624

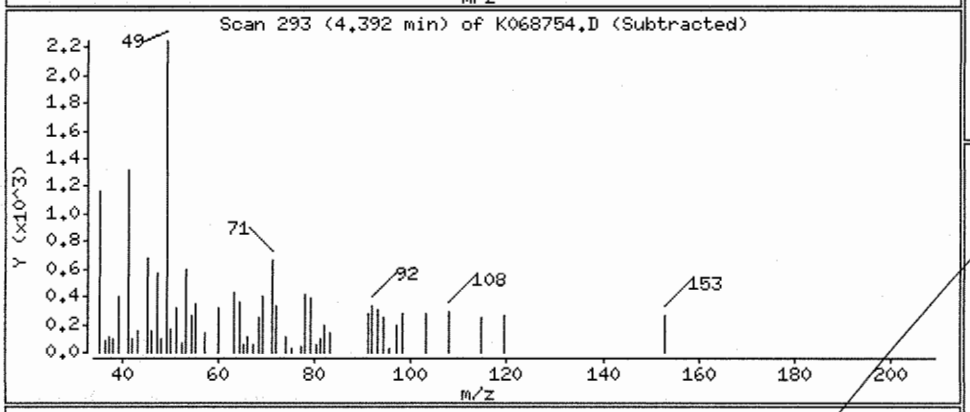
Column diameter: 0.32

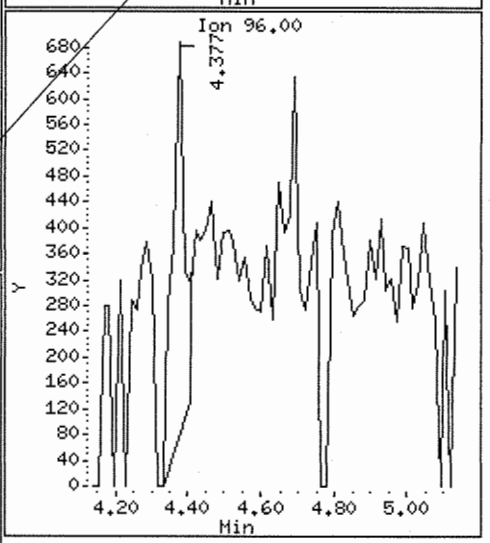
12 Bromomethane

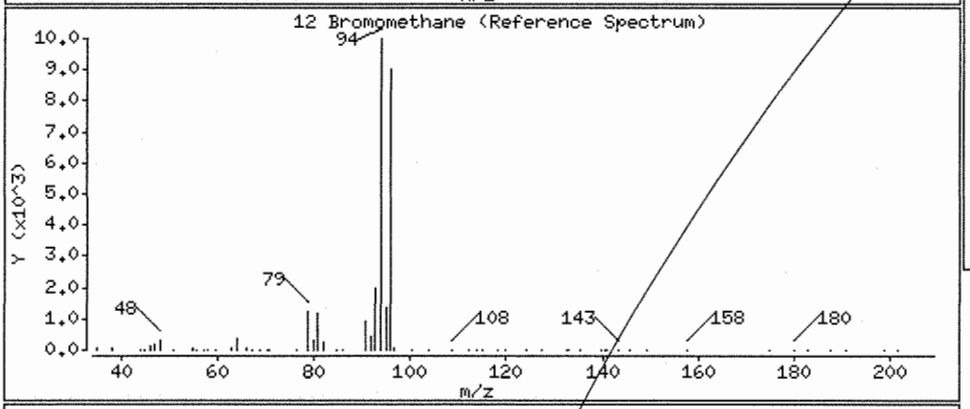
Concentration: 0.131 ug/L

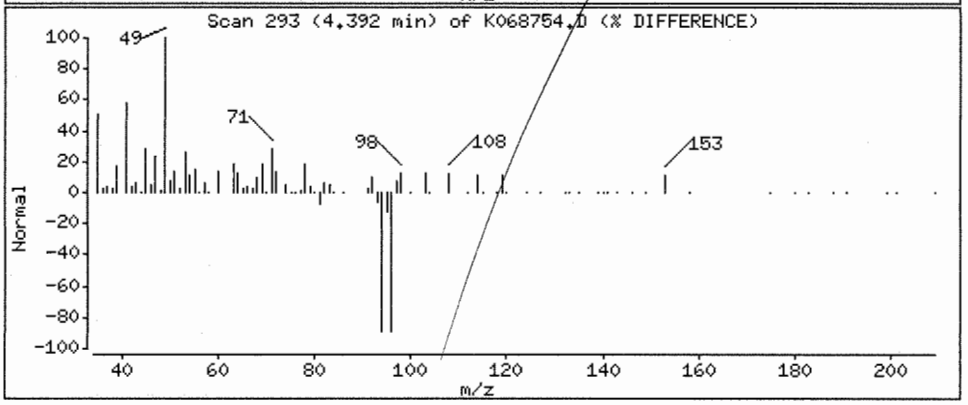












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

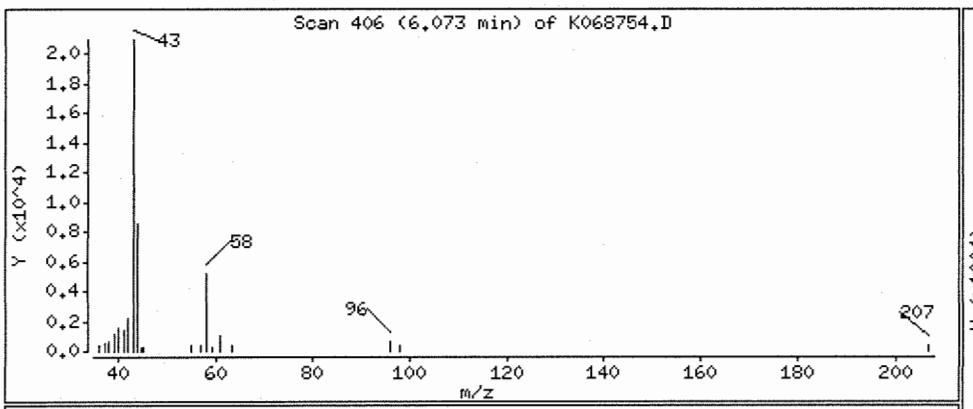
Client ID: T-55-GW-70 Instrument: MSK.i

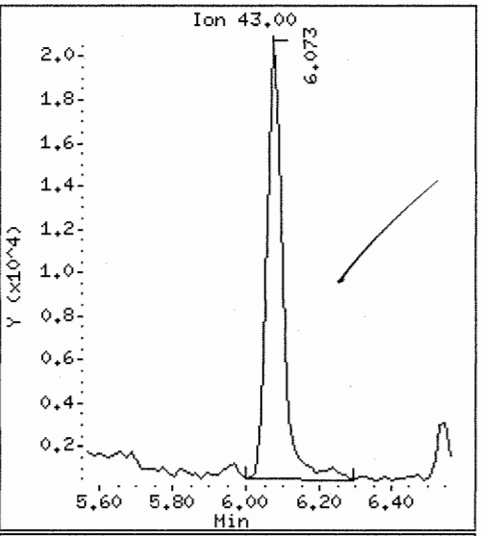
Sample Info: D0602139-008

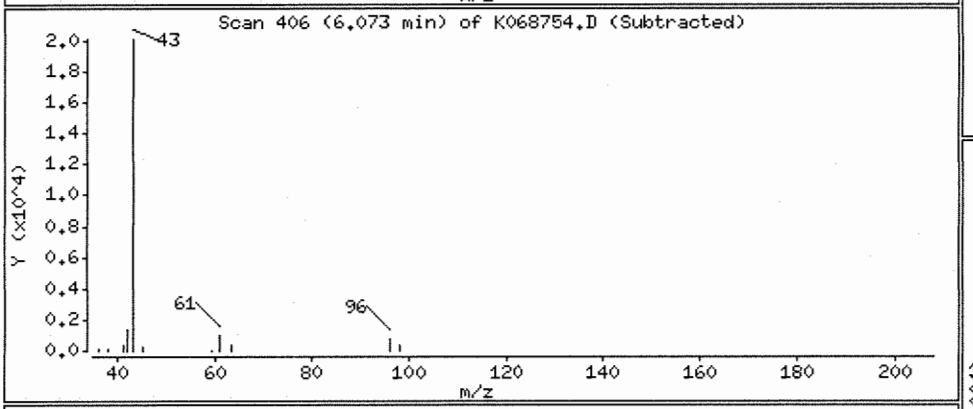
Purge Volume: 10.0 Operator: X

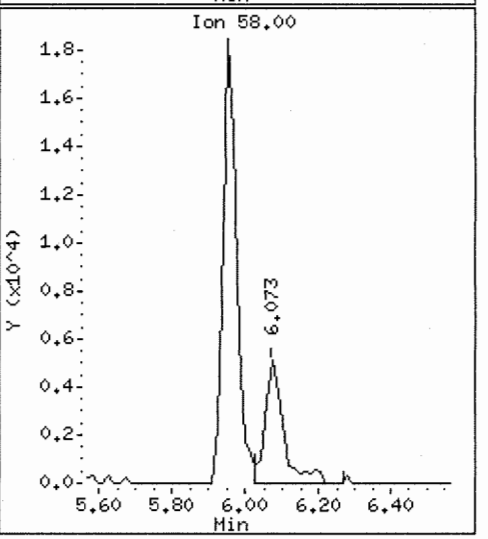
Column phase: DB-624 Column diameter: 0.32

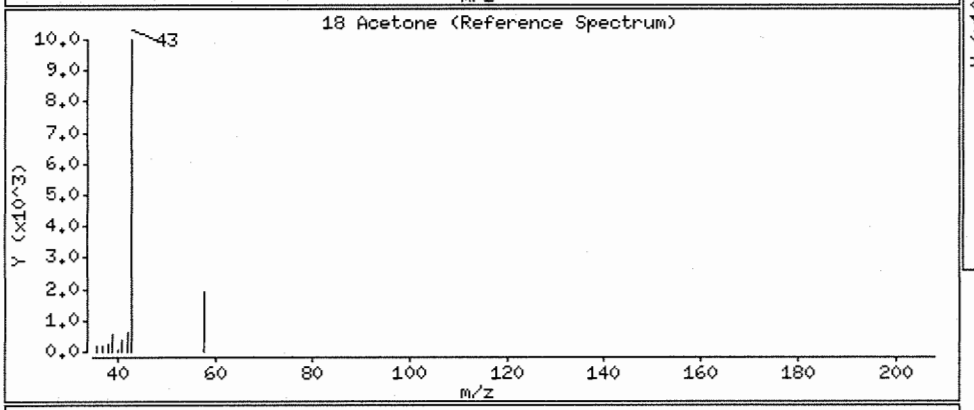
18 Acetone Concentration: 13.1 ug/L

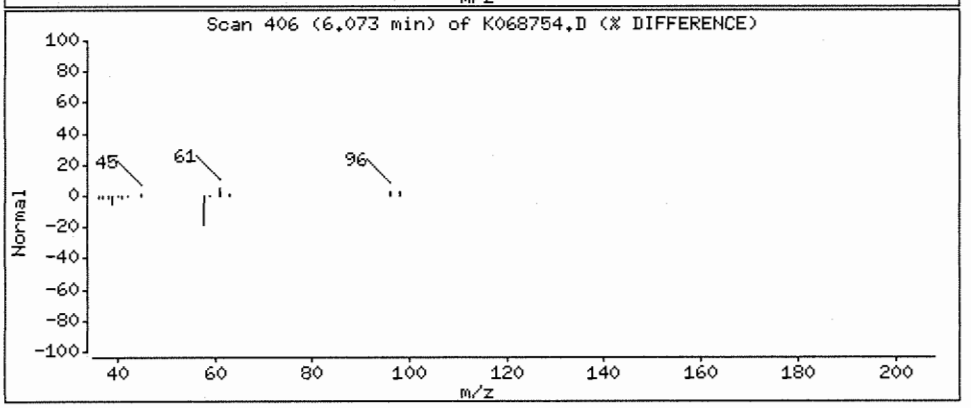












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

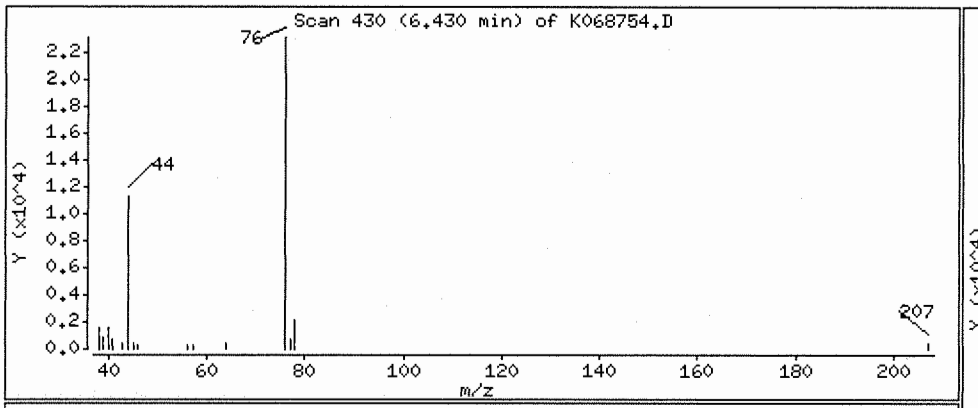
Client ID: T-55-GW-70 Instrument: MSK.i

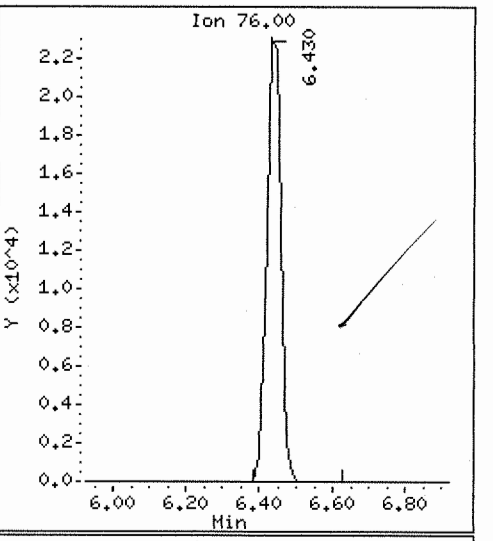
Sample Info: D0602139-008

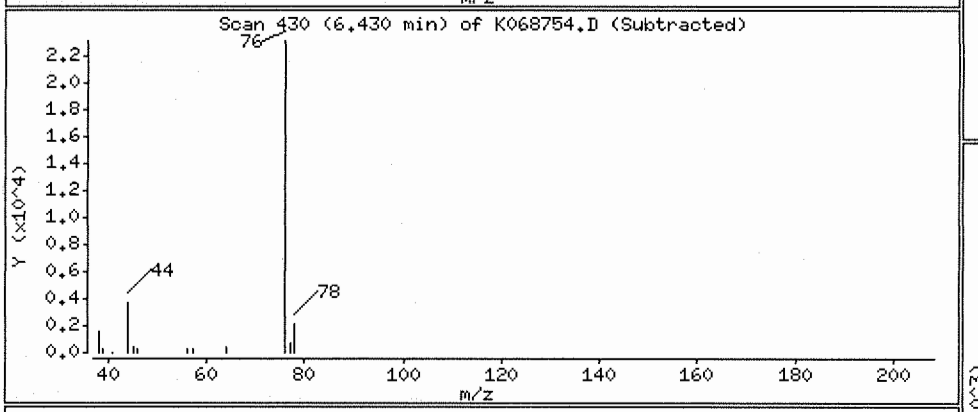
Purge Volume: 10.0 Operator: X

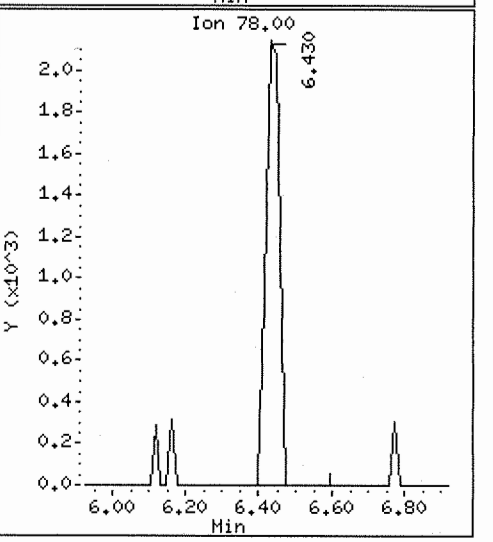
Column phase: DB-624 Column diameter: 0.32

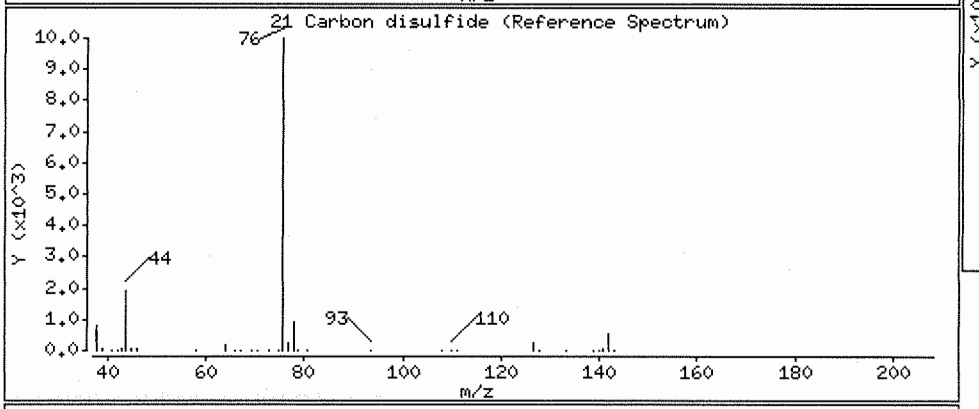
21 Carbon disulfide Concentration: 0.838 ug/L

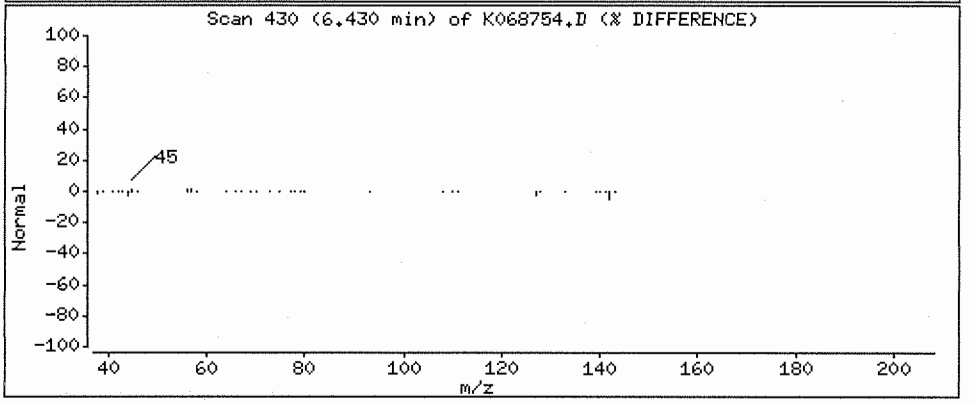












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

Client ID: T-55-GW-70

Instrument: MSK.i

Sample Info: D0602139-008

Purge Volume: 10.0

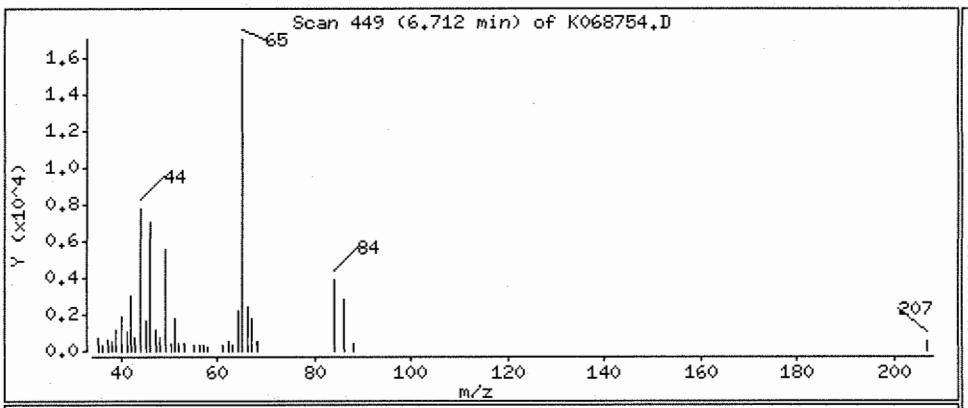
Operator: X

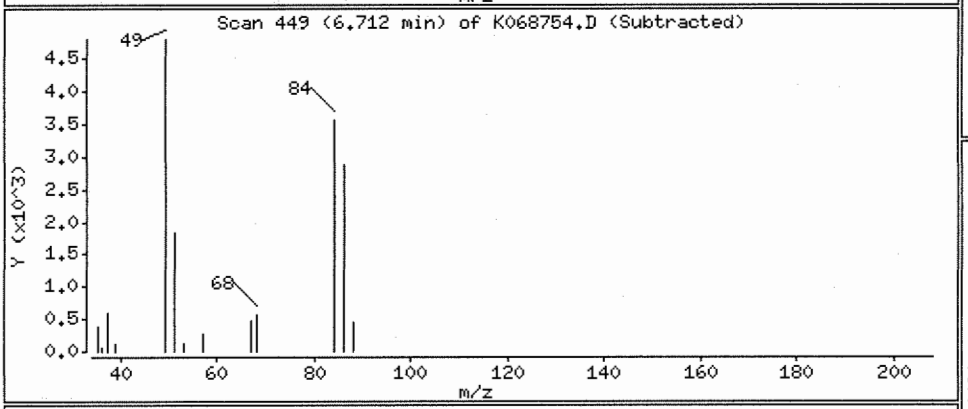
Column phase: DB-624

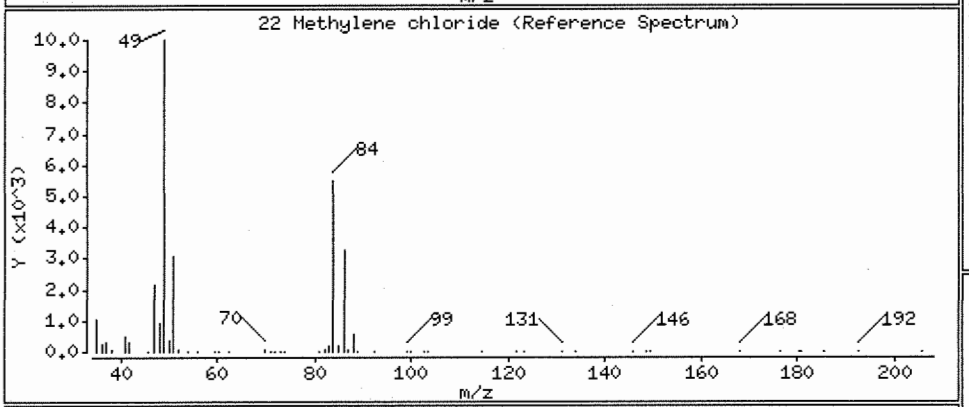
Column diameter: 0.32

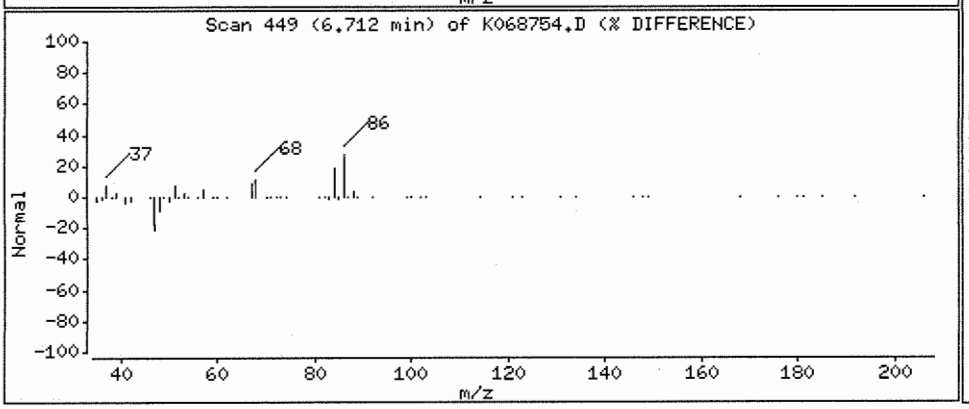
22 Methylene chloride

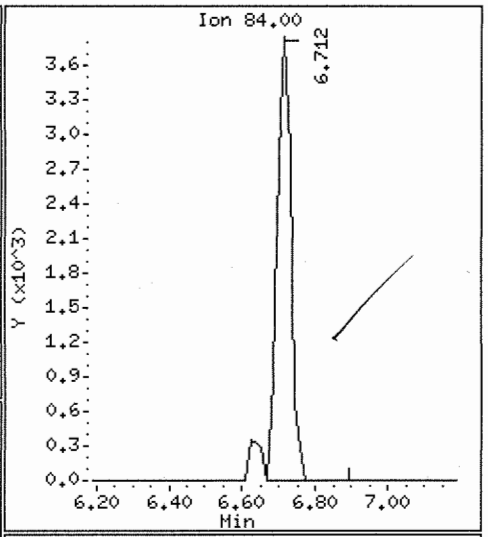
Concentration: 0.442 ug/L

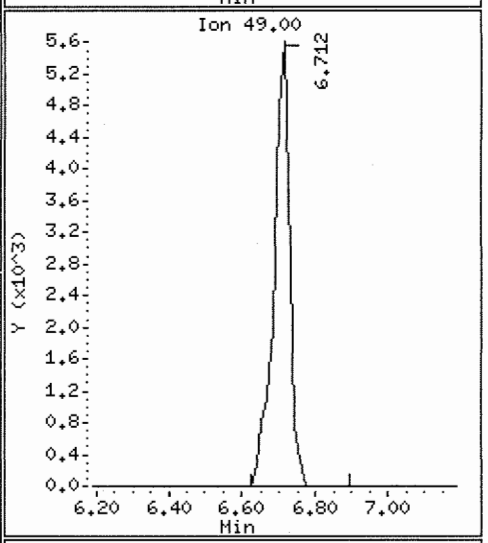


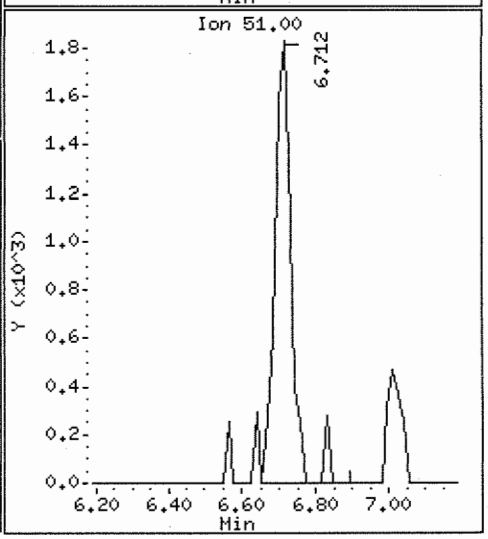












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

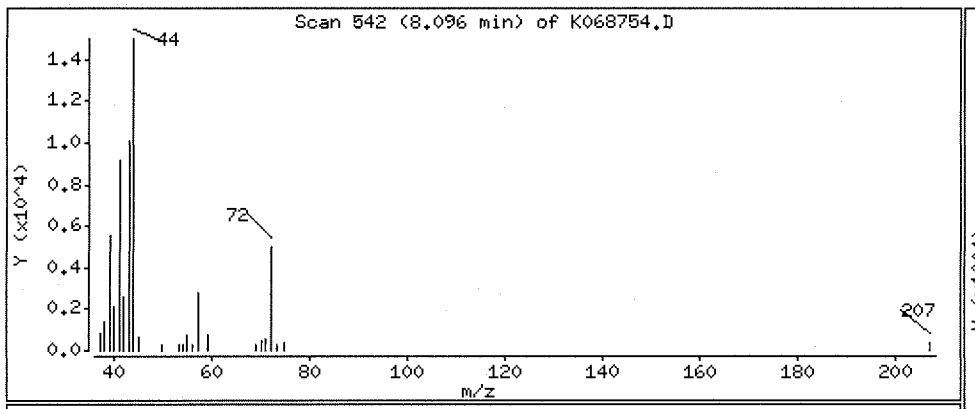
Client ID: T-55-GW-70 Instrument: MSK.i

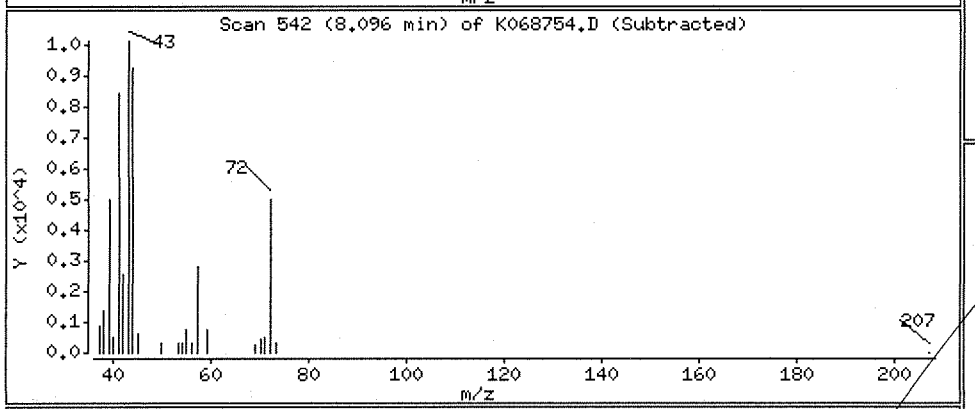
Sample Info: D0602139-008

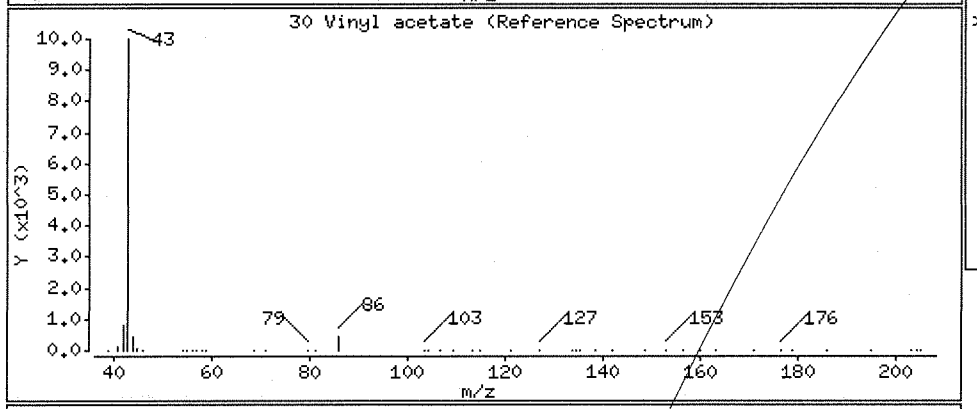
Purge Volume: 10.0 Operator: X

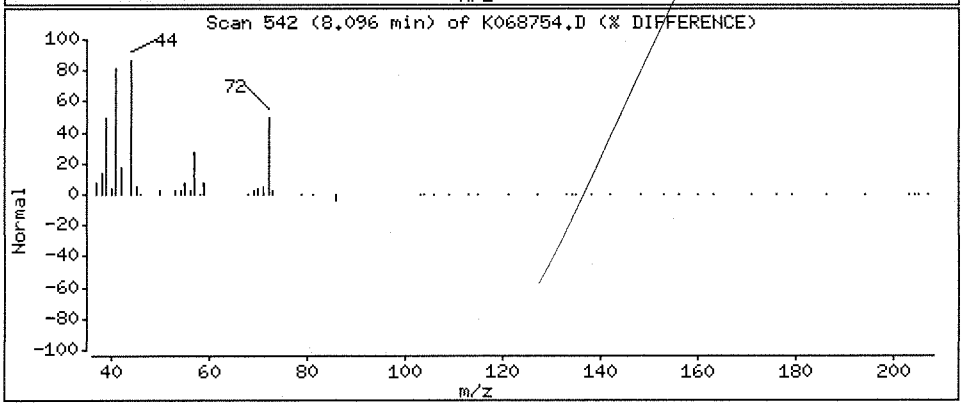
Column phase: DB-624 Column diameter: 0.32

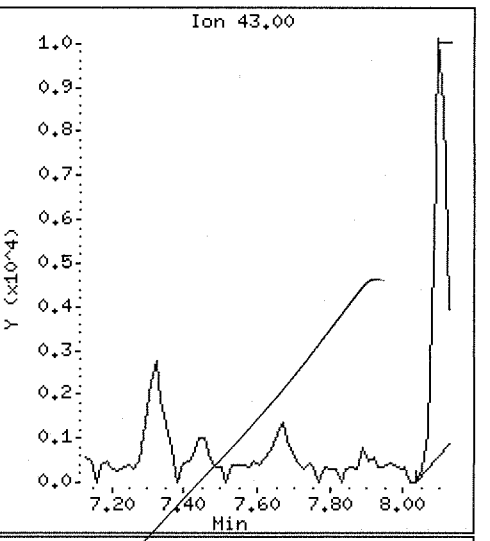
30 Vinyl acetate Concentration: 0.336 ug/L

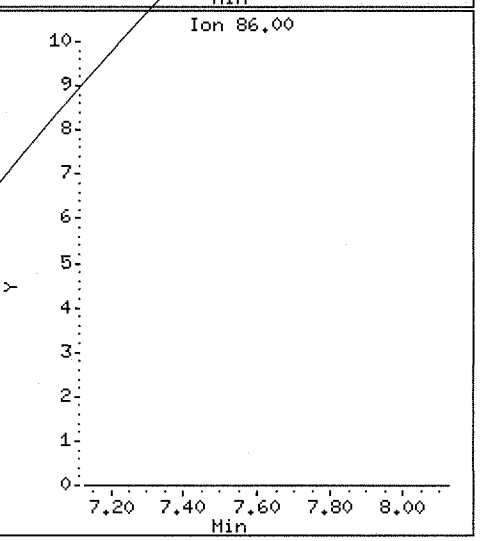












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

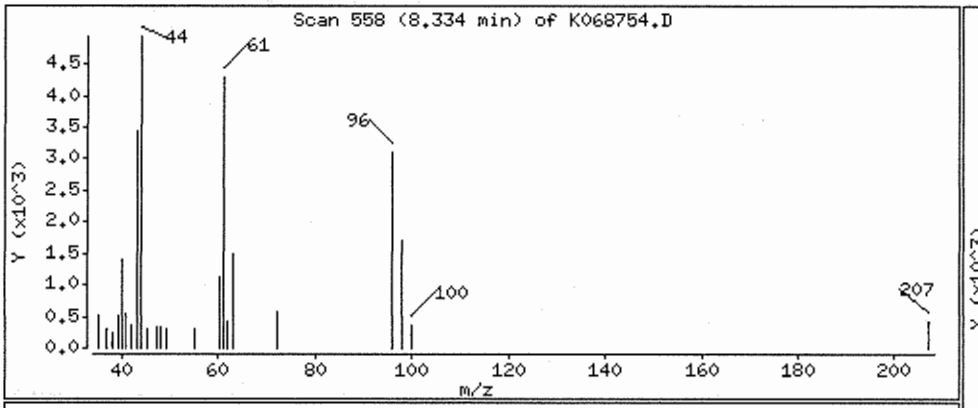
Client ID: T-55-GW-70 Instrument: MSK.i

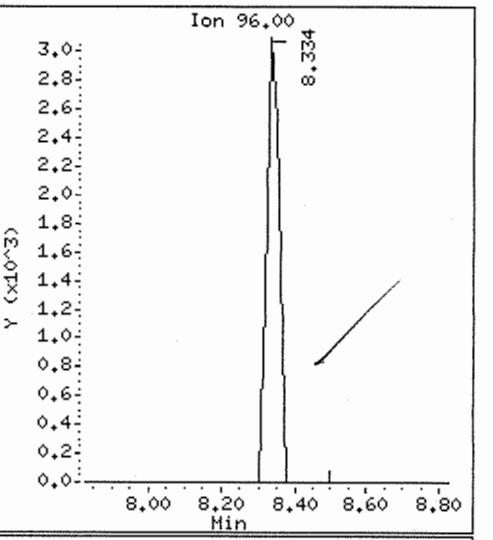
Sample Info: D0602139-008

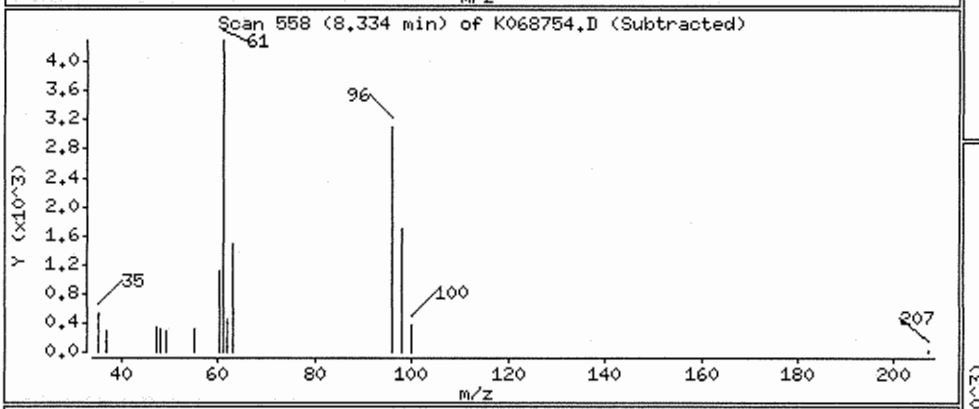
Purge Volume: 10.0 Operator: X

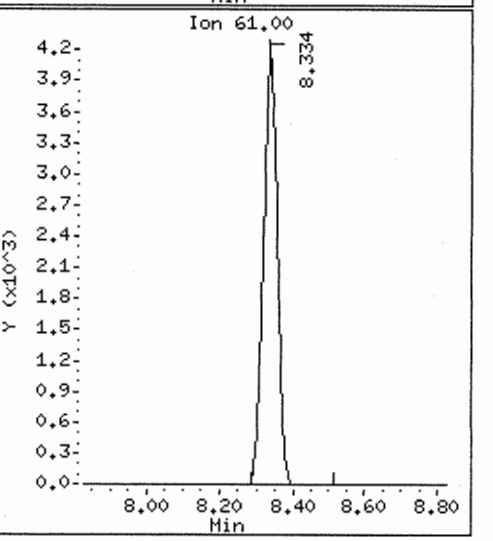
Column phase: DB-624 Column diameter: 0.32

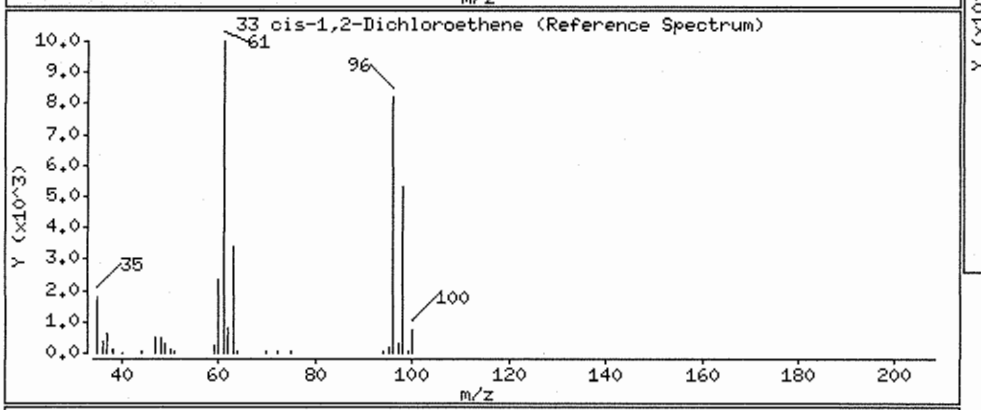
33 cis-1,2-Dichloroethene Concentration: 0.310 ug/L

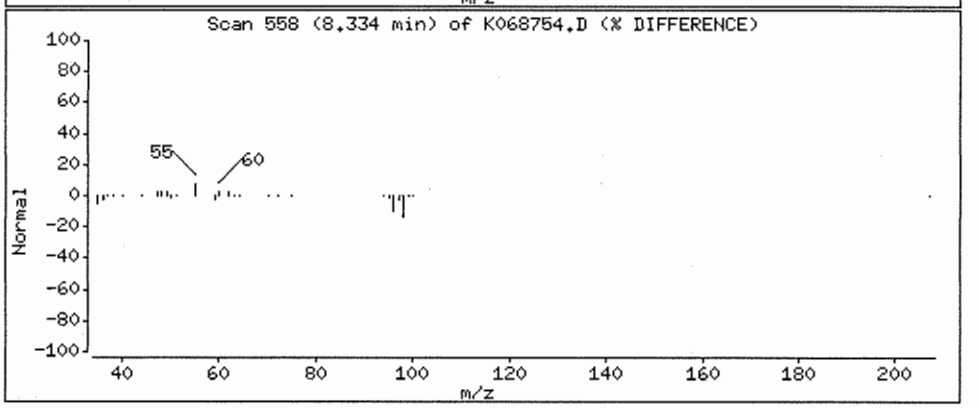












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

Client ID: T-55-GW-70

Instrument: MSK.i

Sample Info: D0602139-008

Purge Volume: 10.0

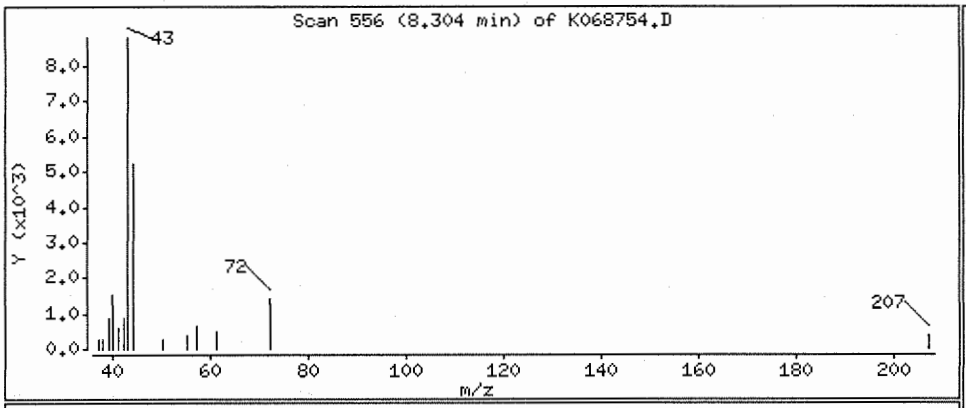
Operator: X

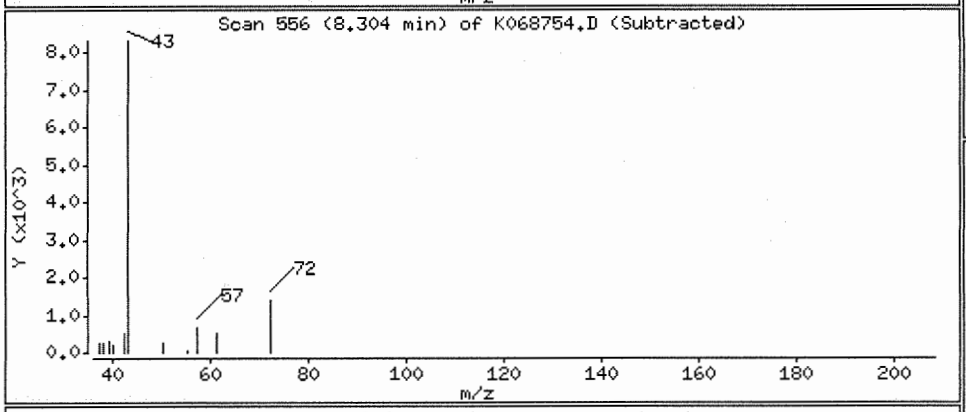
Column phase: DB-624

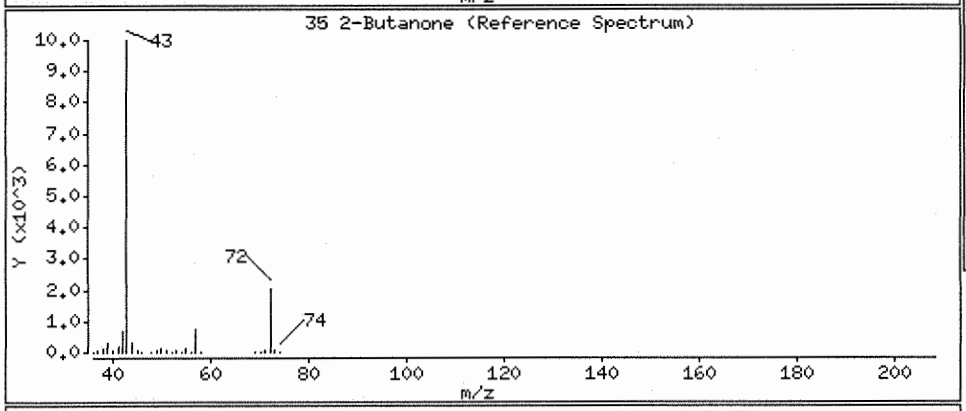
Column diameter: 0.32

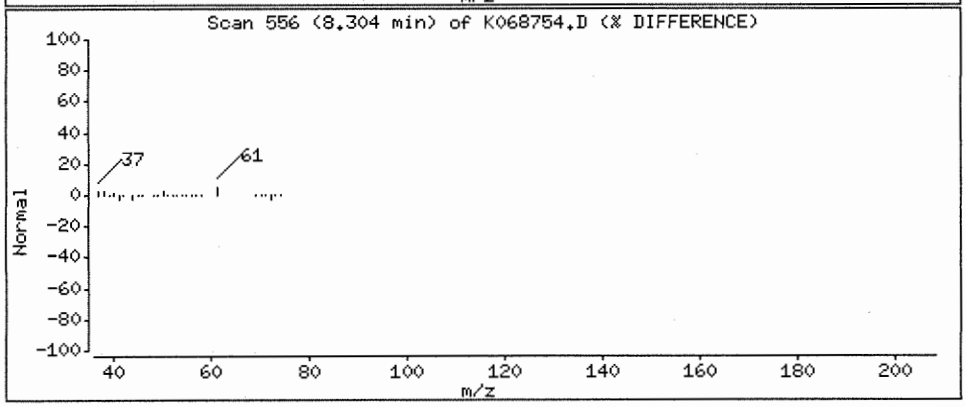
35 2-Butanone

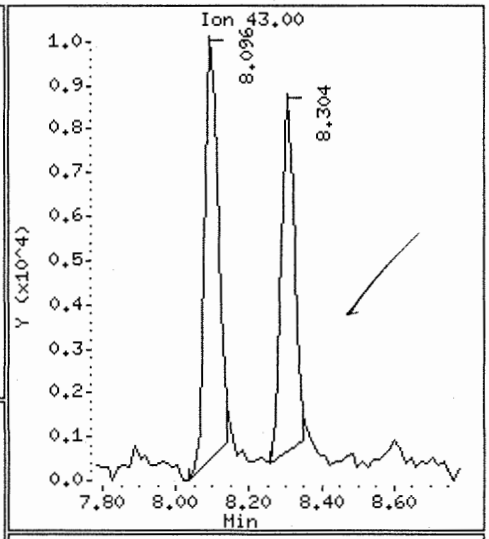
Concentration: 3.11 ug/L

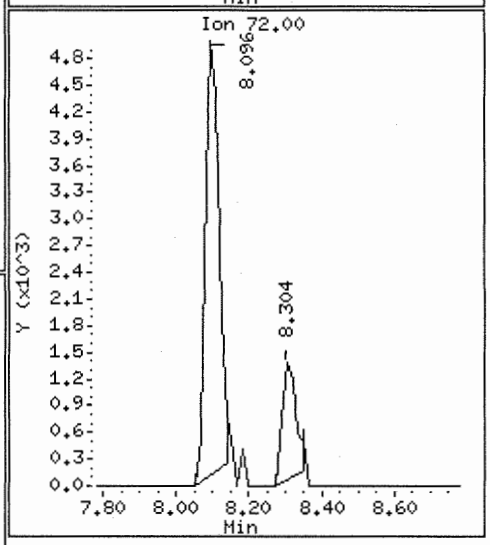












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

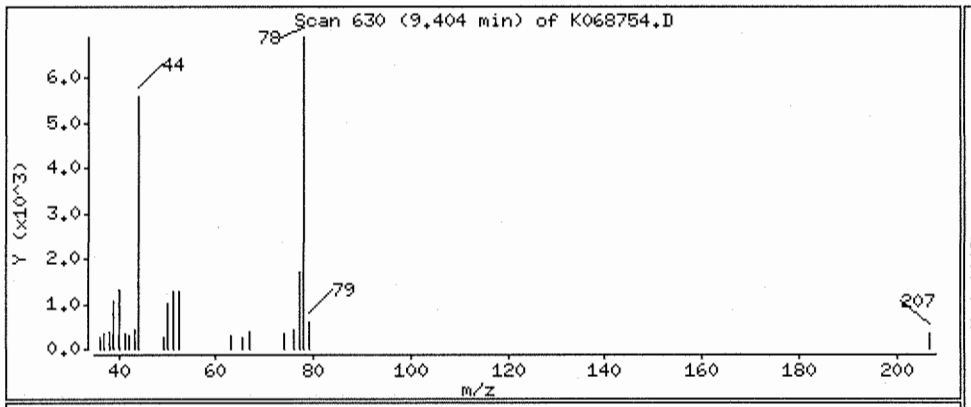
Client ID: T-55-GW-70 Instrument: MSK.i

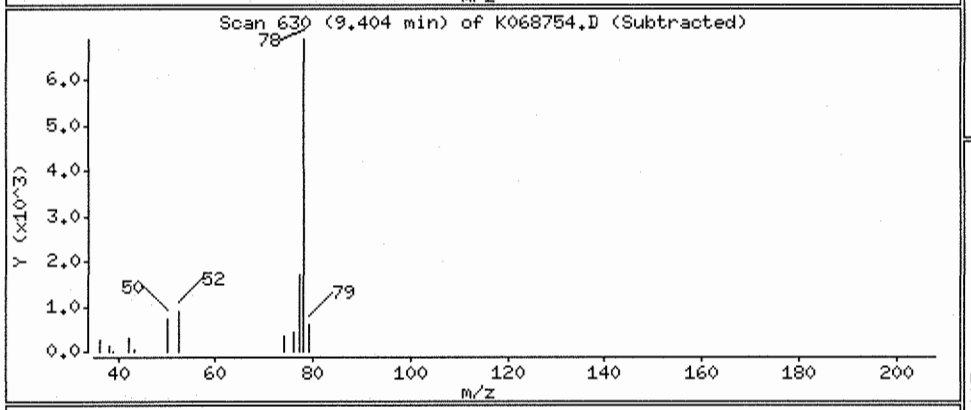
Sample Info: D0602139-008

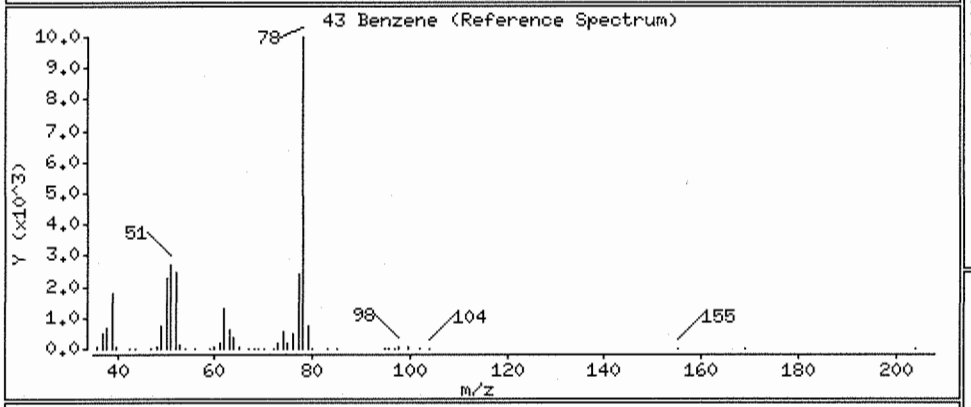
Purge Volume: 10.0 Operator: X

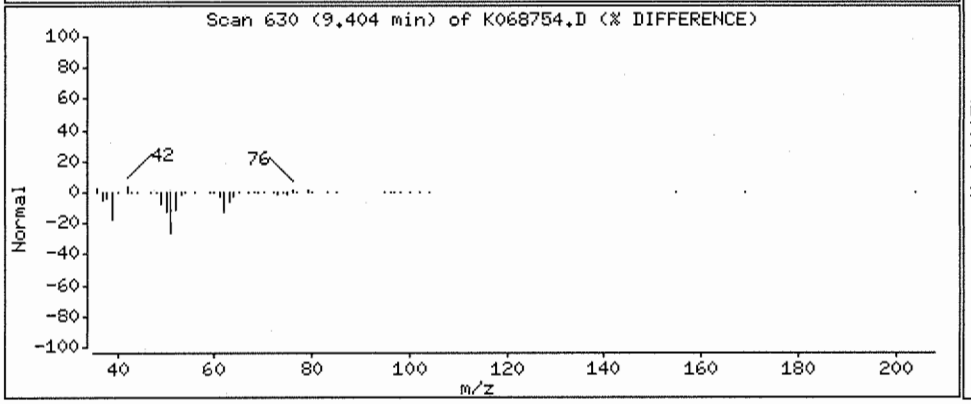
Column phase: DB-624 Column diameter: 0.32

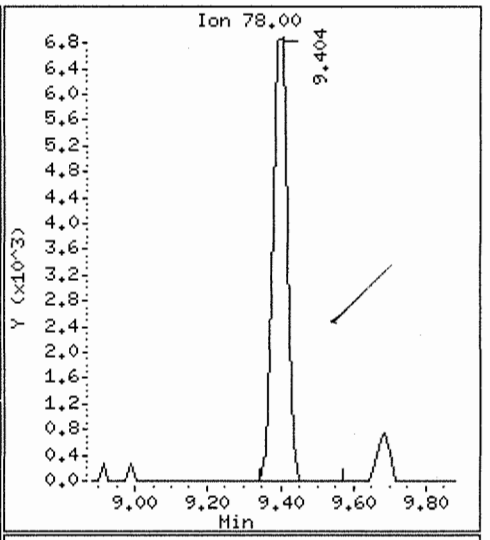
43 Benzene Concentration: 0.236 ug/L

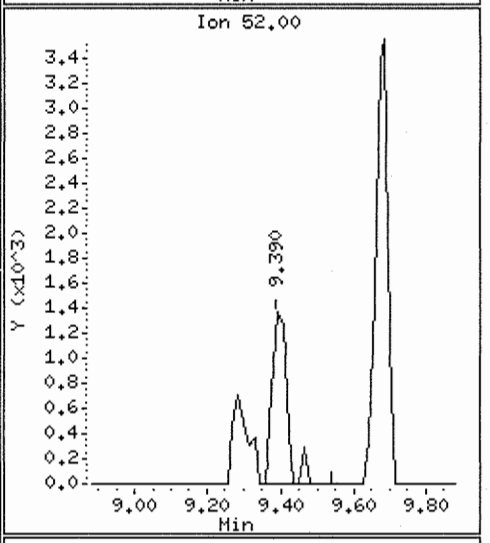


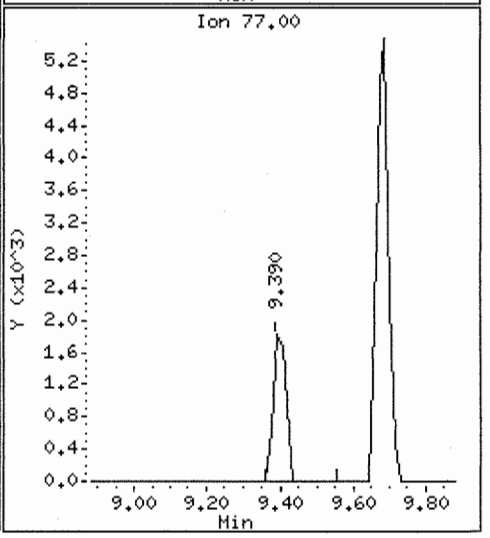












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

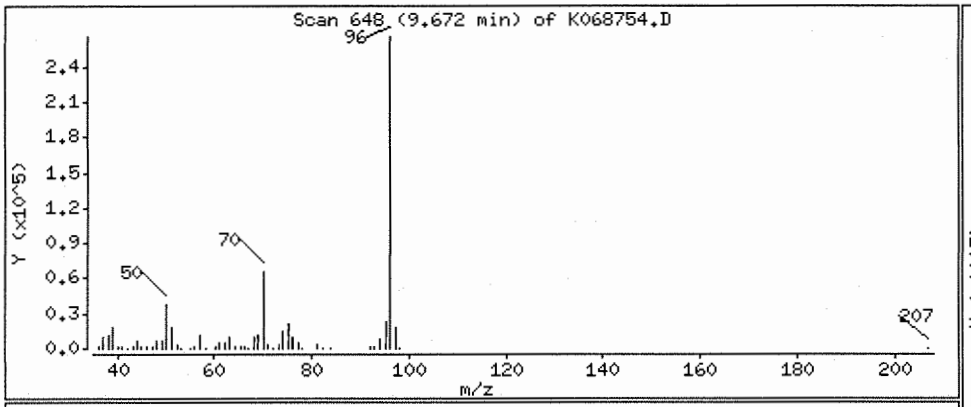
Client ID: T-55-GW-70 Instrument: MSK.i

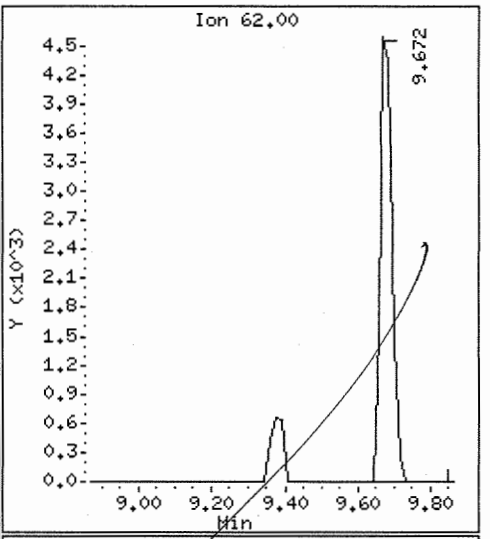
Sample Info: D0602139-008

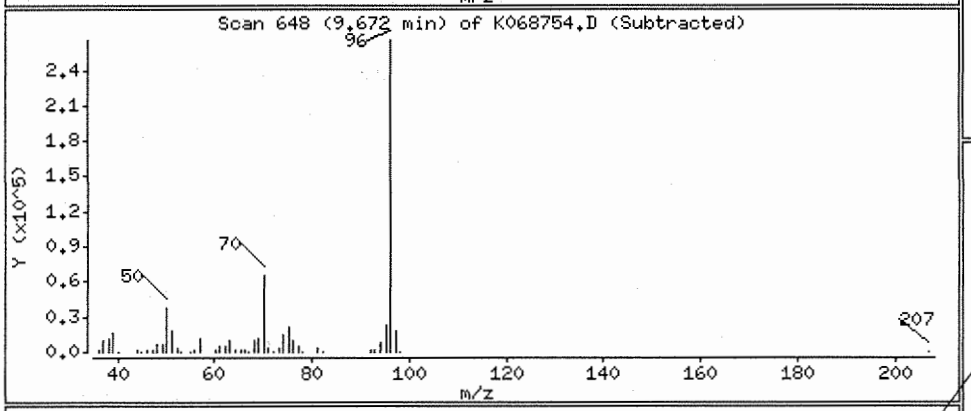
Purge Volume: 10.0 Operator: X

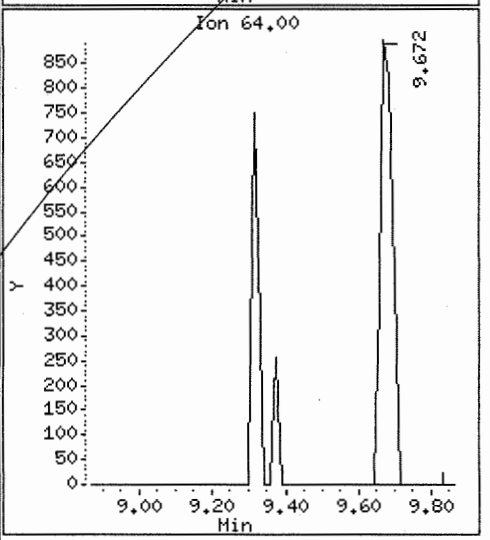
Column phase: DB-624 Column diameter: 0.32

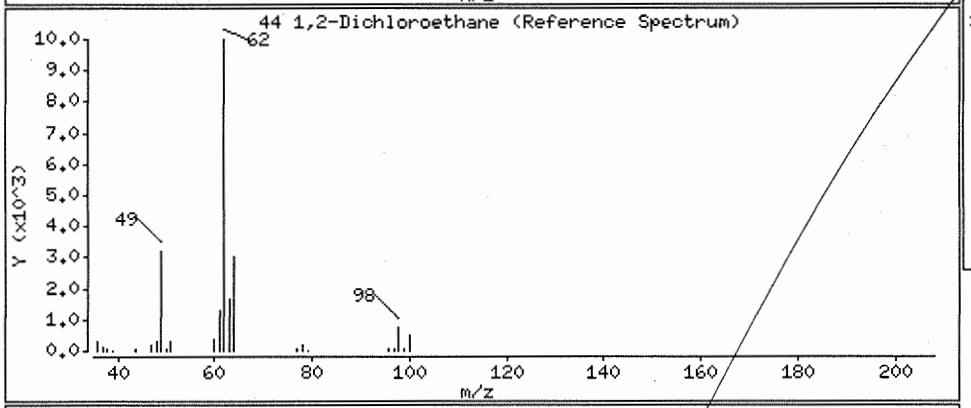
44 1,2-Dichloroethane Concentration: 0.388 ug/L

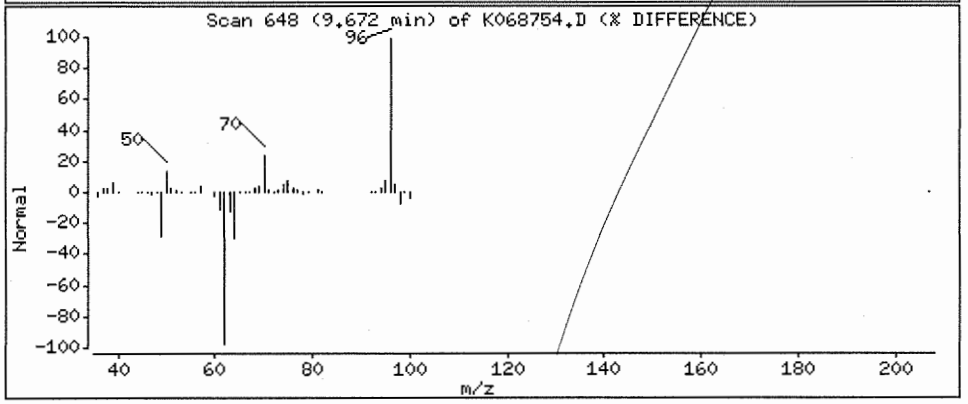












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

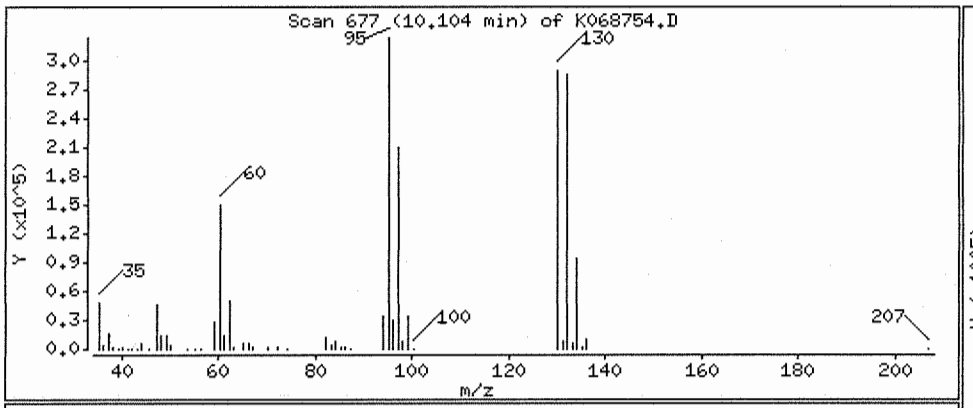
Client ID: T-55-GW-70 Instrument: MSK.i

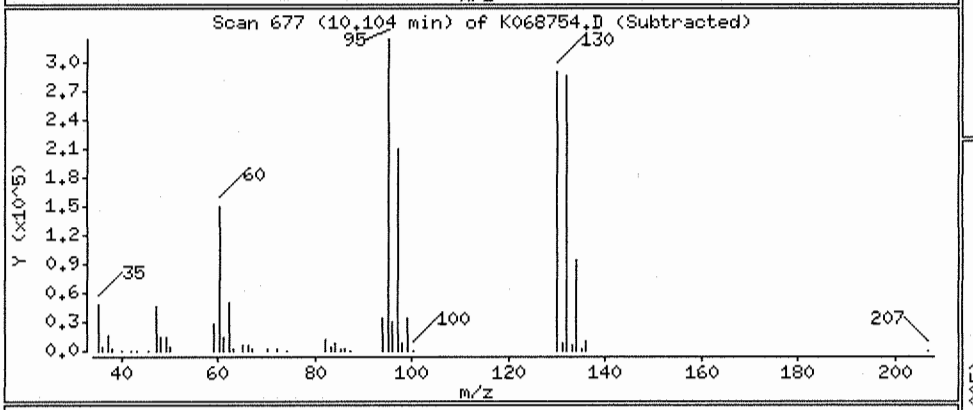
Sample Info: D0602139-008

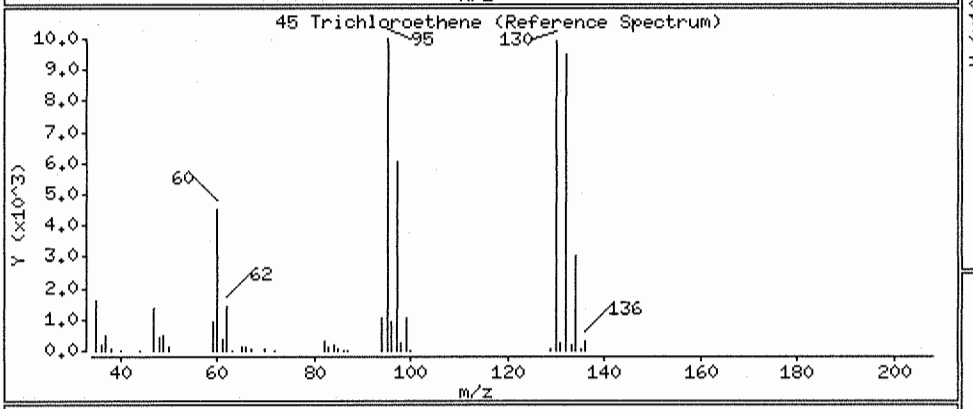
Purge Volume: 10.0 Operator: X

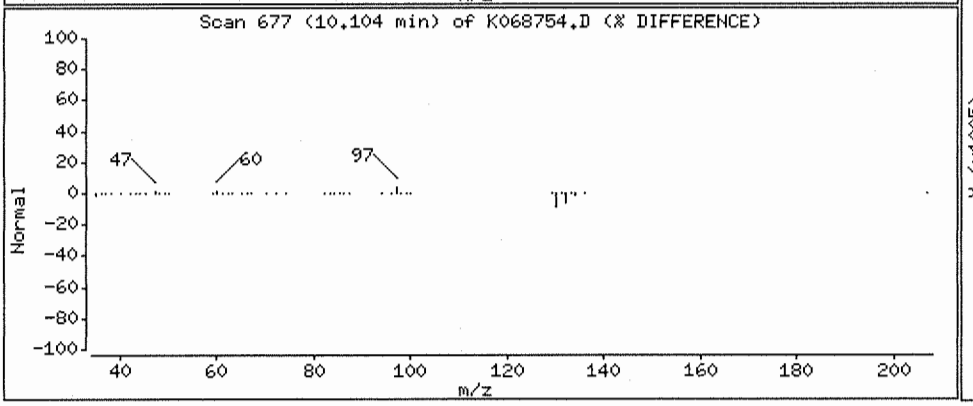
Column phase: DB-624 Column diameter: 0.32

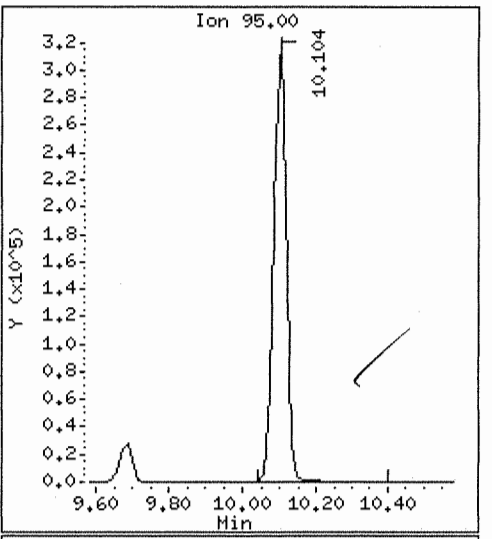
45 Trichloroethene Concentration: 34.9 ug/L

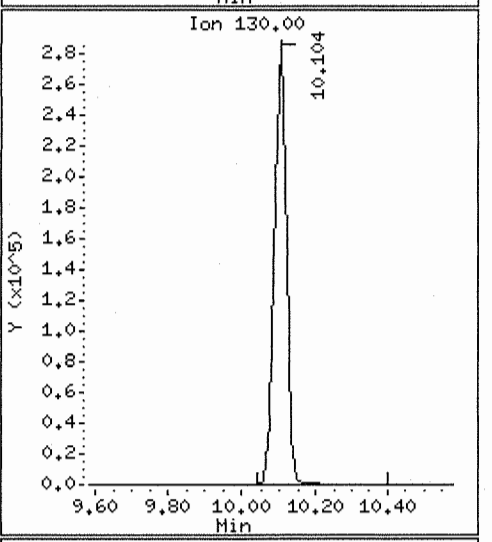


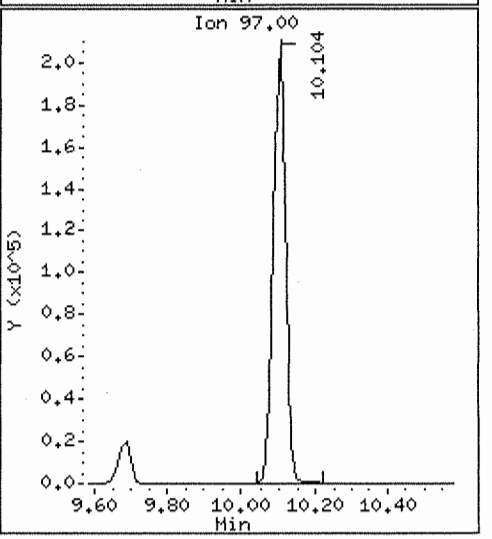












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

Client ID: T-55-GW-70

Instrument: MSK.i

Sample Info: D0602139-008

Purge Volume: 10.0

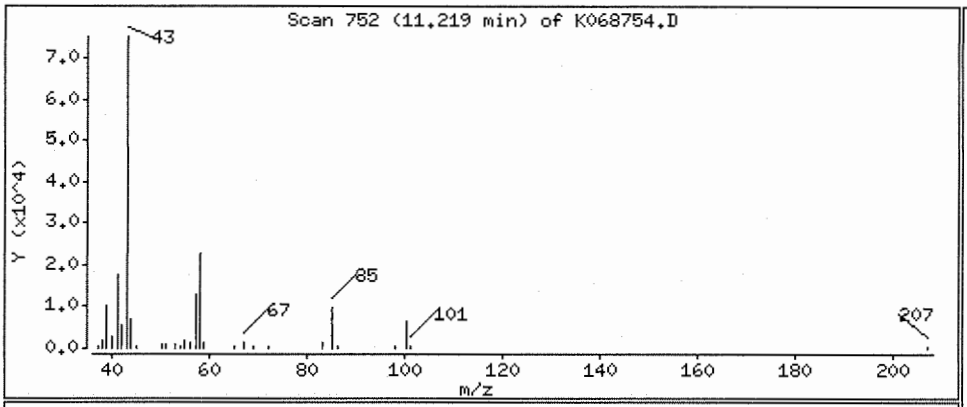
Operator: X

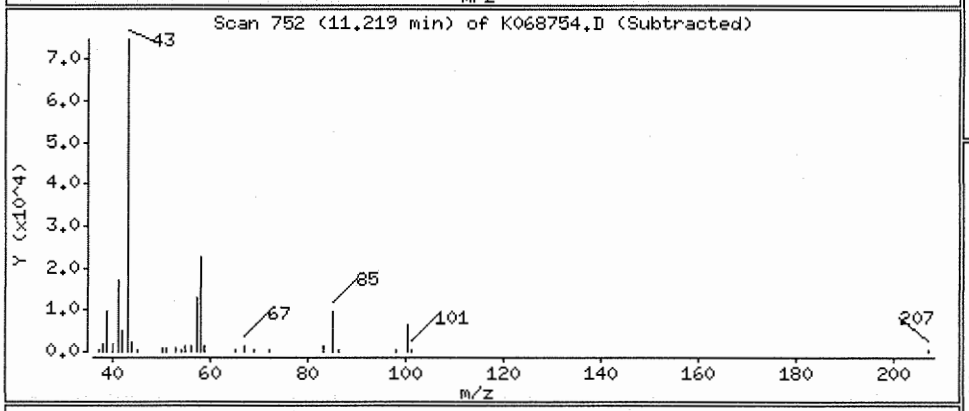
Column phase: DB-624

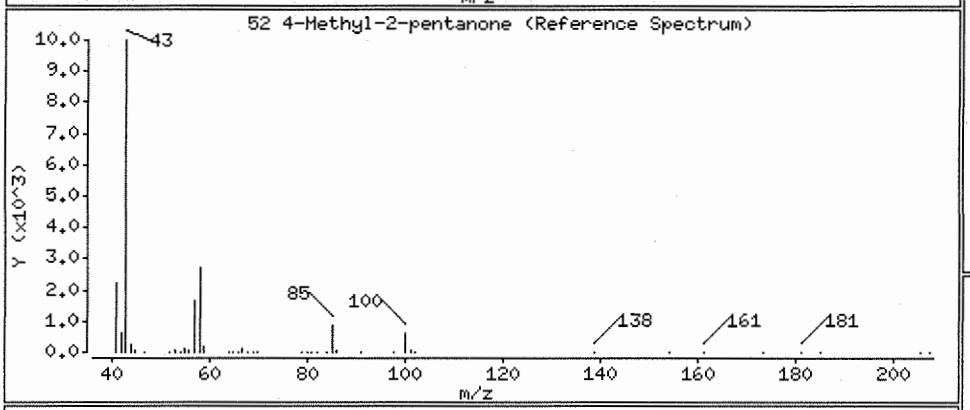
Column diameter: 0.32

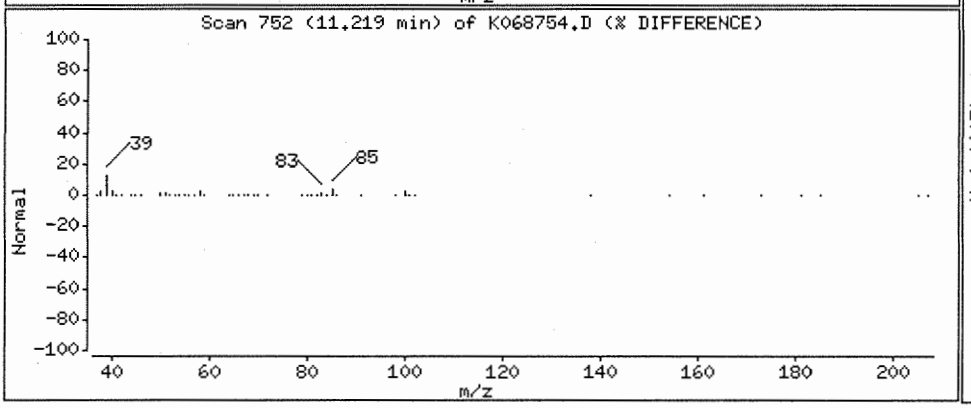
52 4-Methyl-2-pentanone

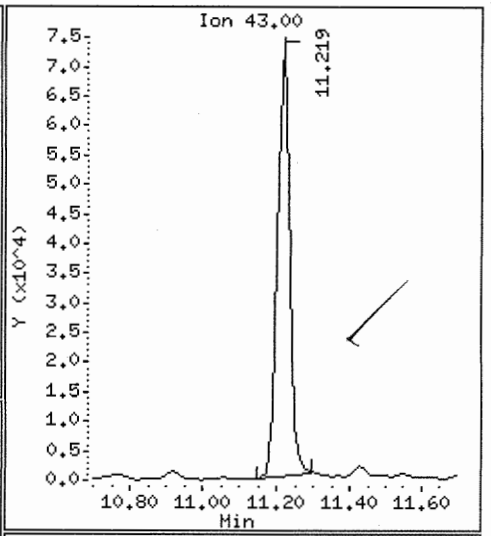
Concentration: 10.7 ug/L

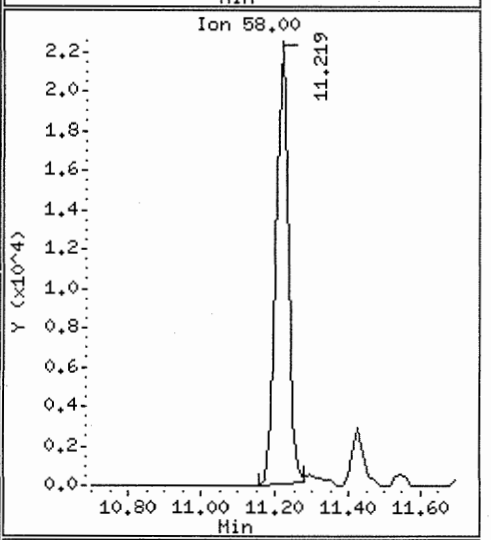


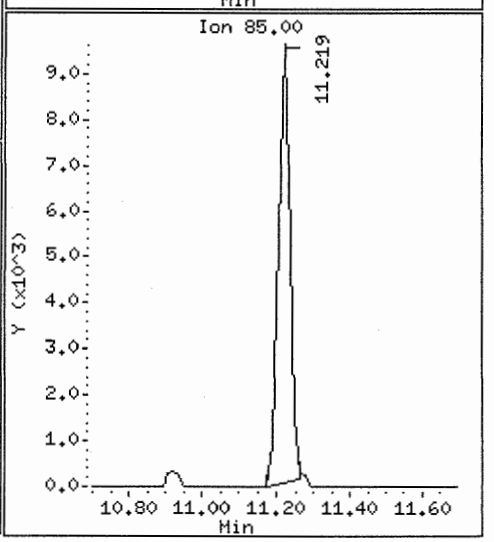












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

Client ID: T-55-GW-70

Instrument: MSK.i

Sample Info: D0602139-008

Purge Volume: 10.0

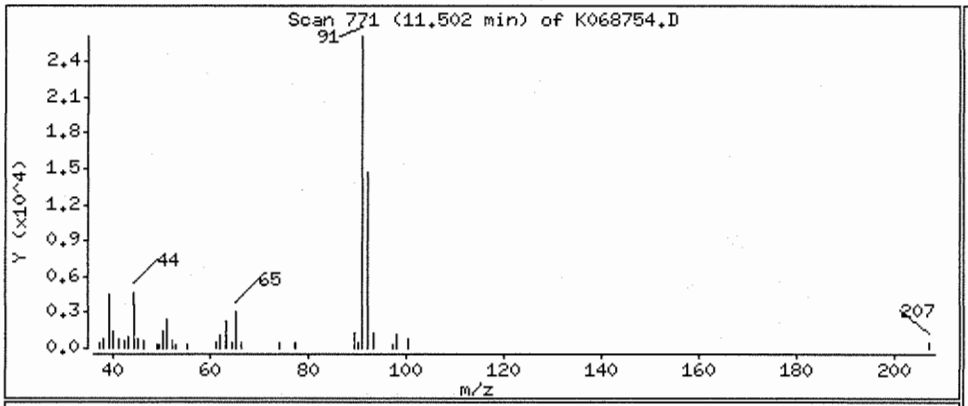
Operator: X

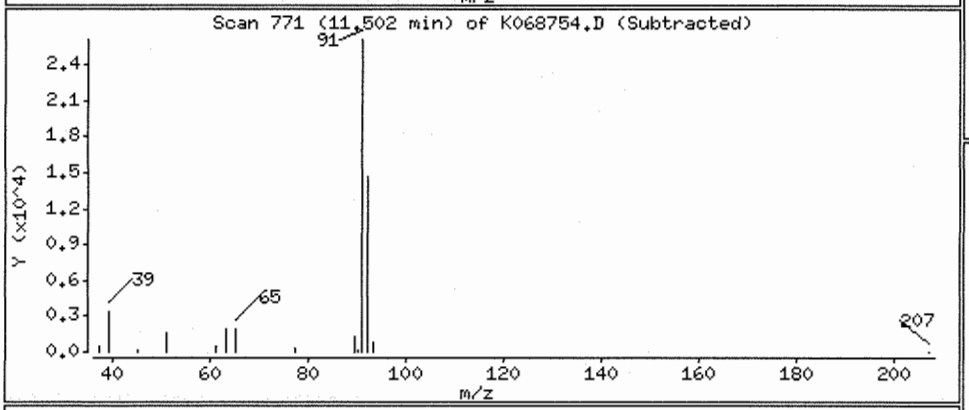
Column phase: DB-624

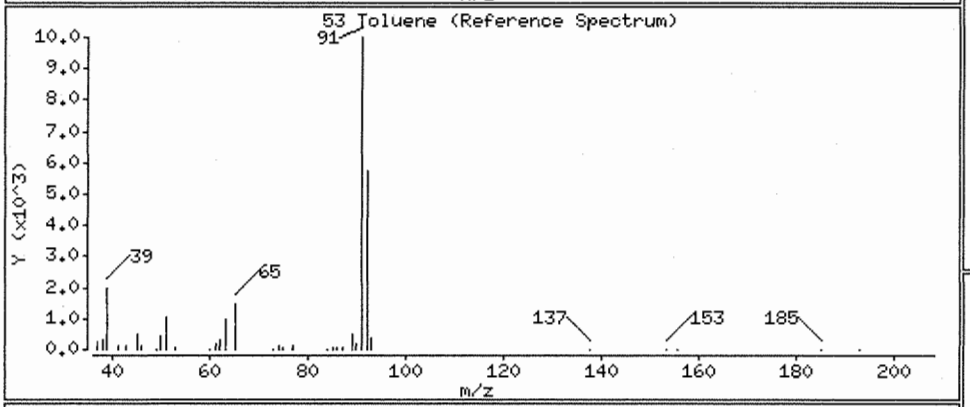
Column diameter: 0.32

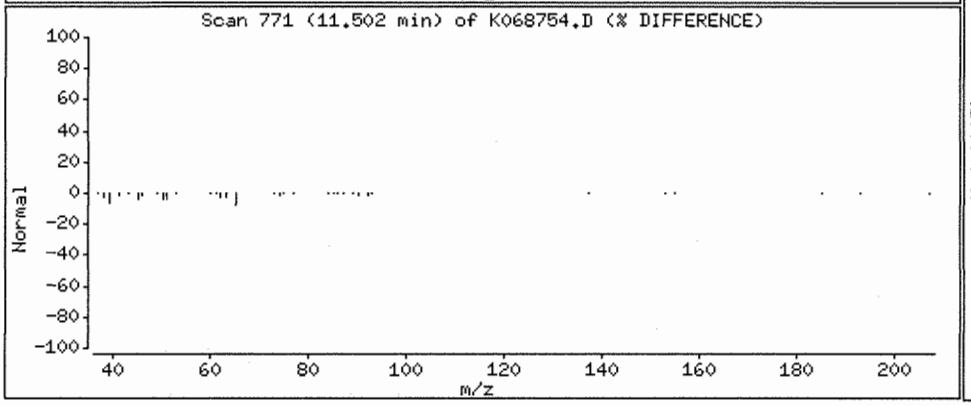
53 Toluene

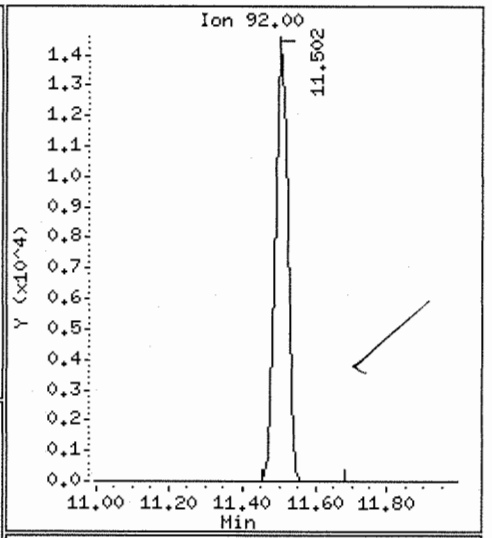
Concentration: 0.681 ug/L

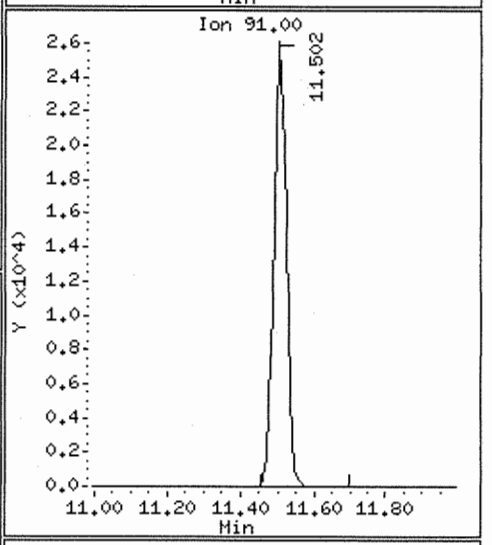


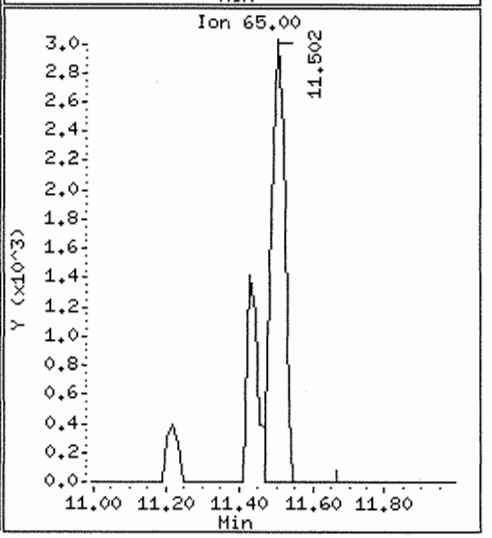












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

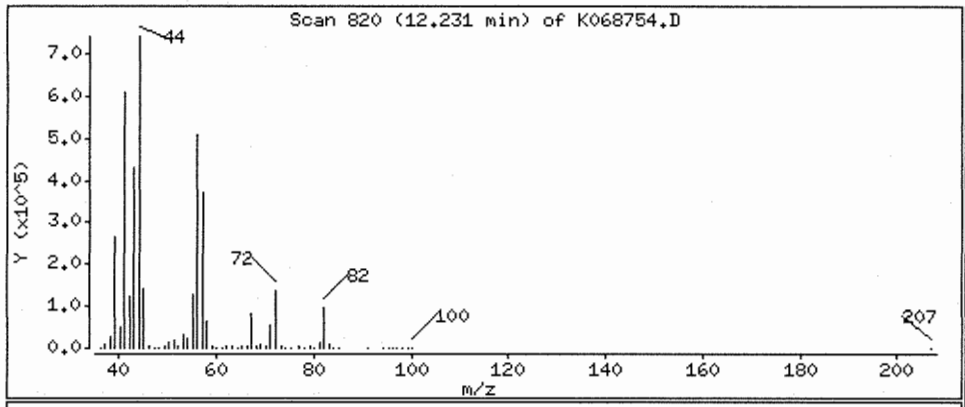
Client ID: T-55-GW-70 Instrument: MSK.i

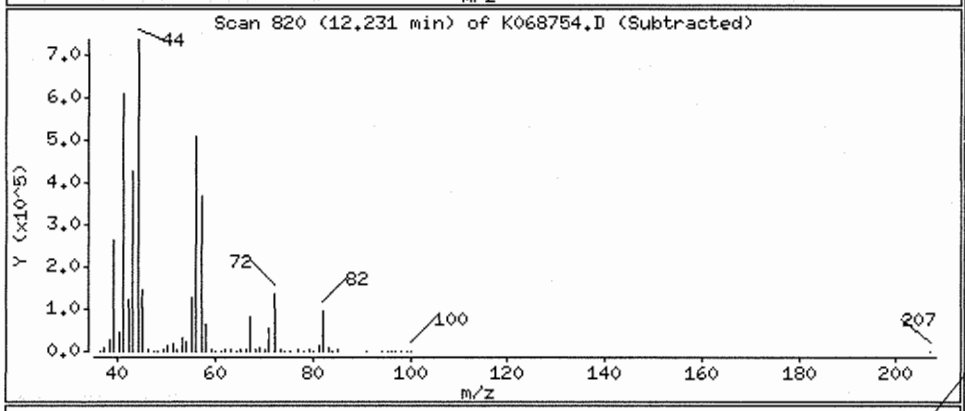
Sample Info: D0602139-008

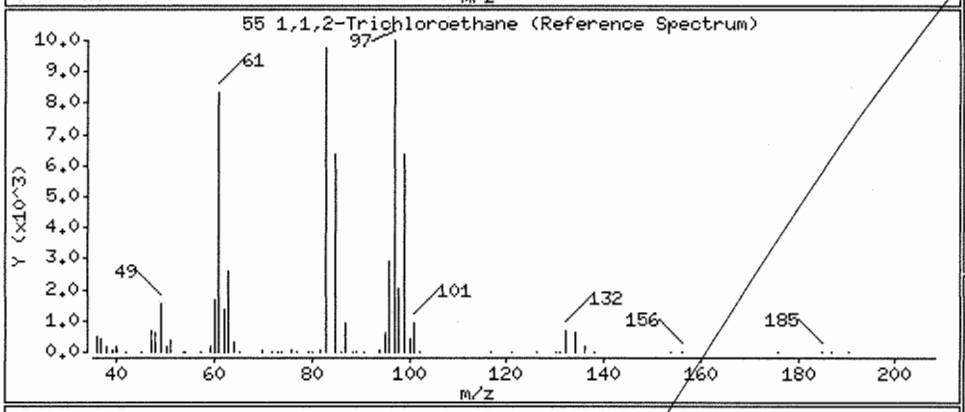
Purge Volume: 10.0 Operator: X

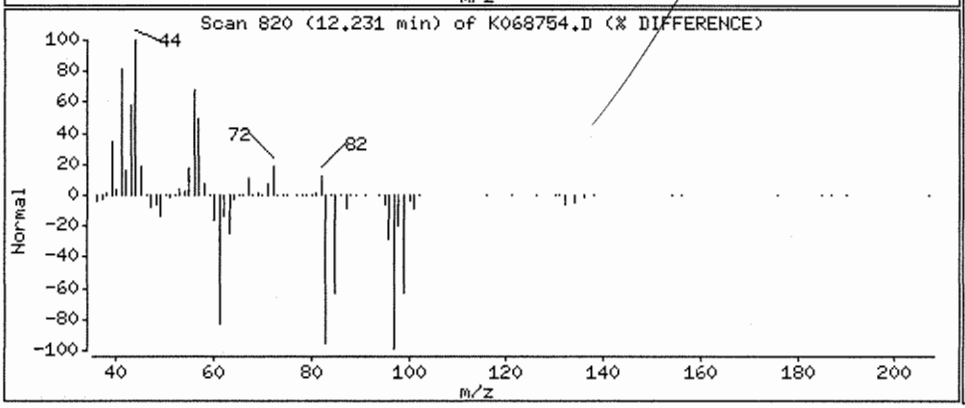
Column phase: DB-624 Column diameter: 0.32

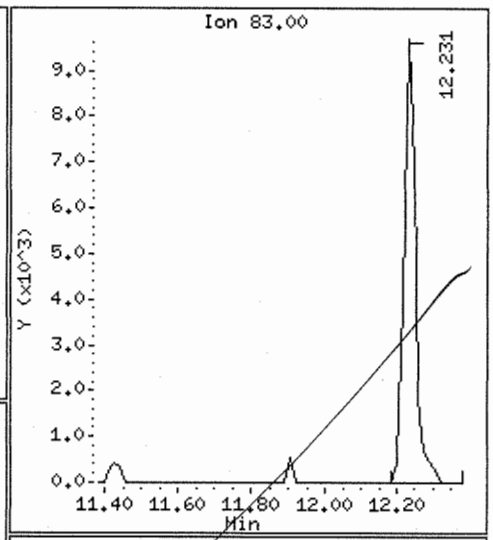
55 1,1,2-Trichloroethane Concentration: 1.51 ug/L

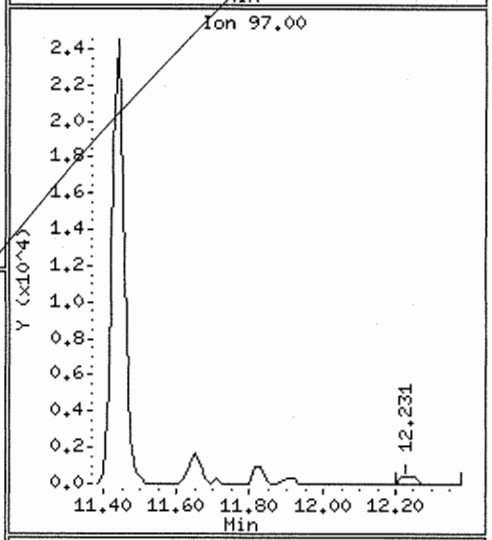


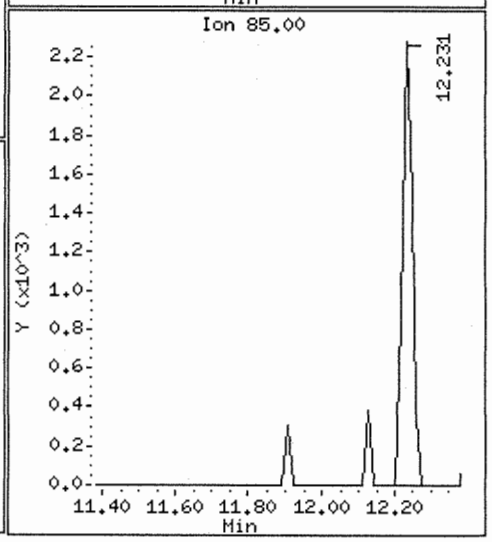












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

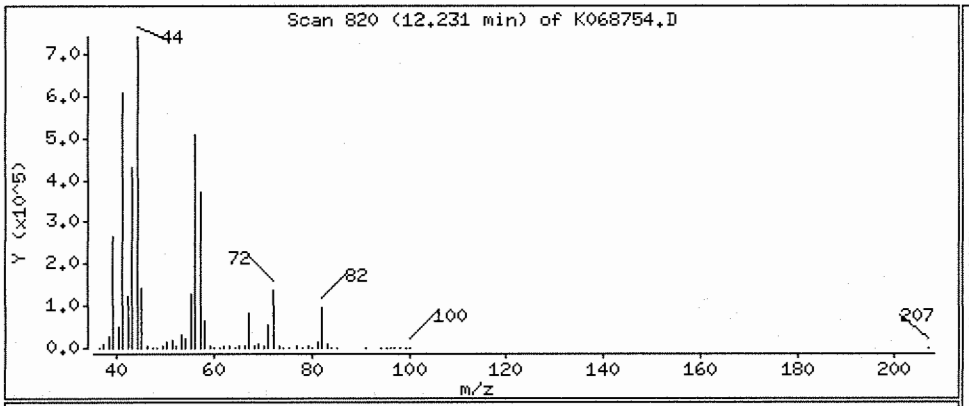
Client ID: T-55-GW-70 Instrument: MSK.i

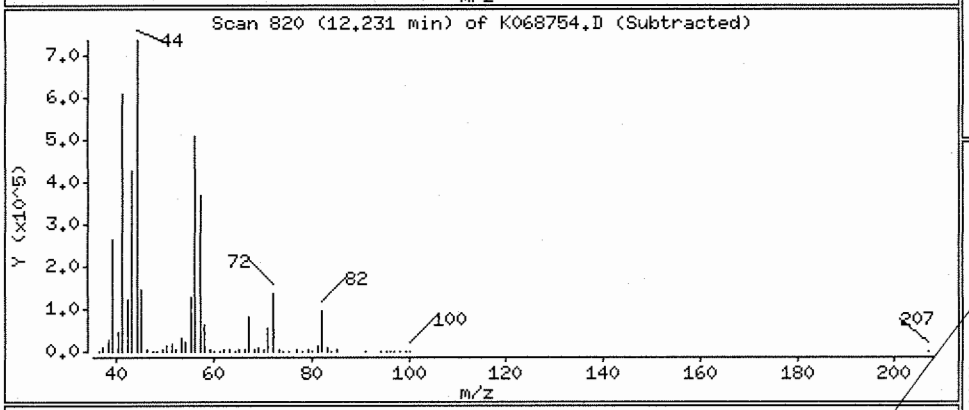
Sample Info: D0602139-008

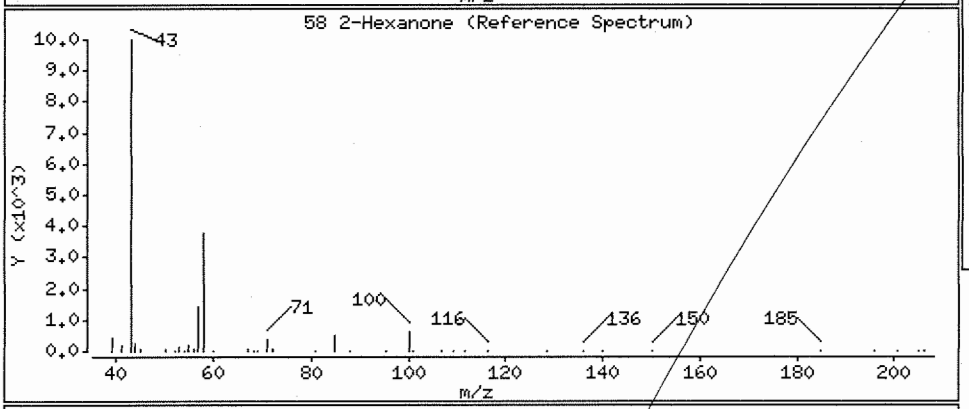
Purge Volume: 10.0 Operator: X

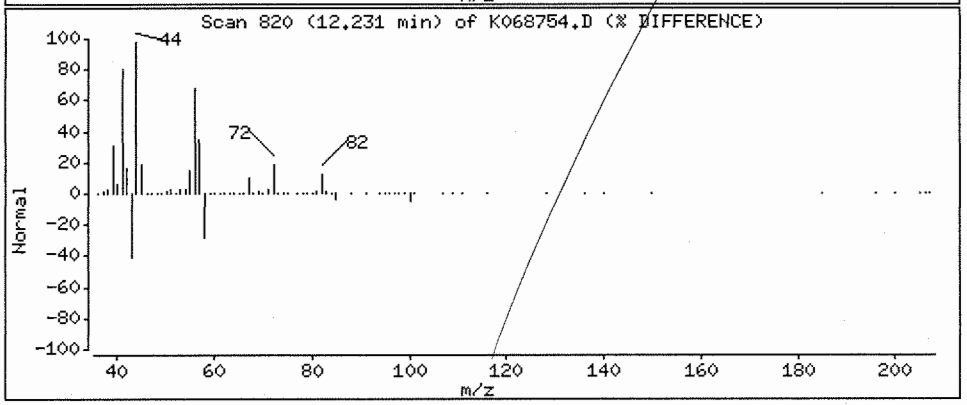
Column phase: DB-624 Column diameter: 0.32

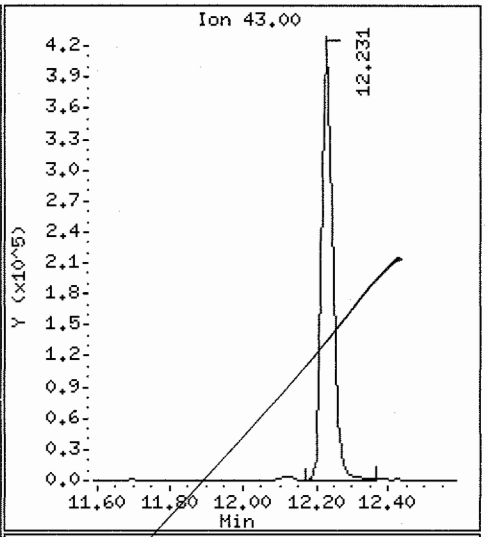
58 2-Hexanone Concentration: 85.5 ug/L

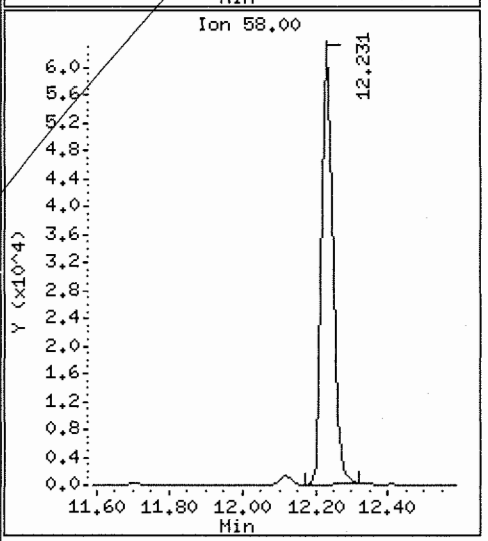












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

Client ID: T-55-GW-70

Instrument: MSK.i

Sample Info: D0602139-008

Purge Volume: 10.0

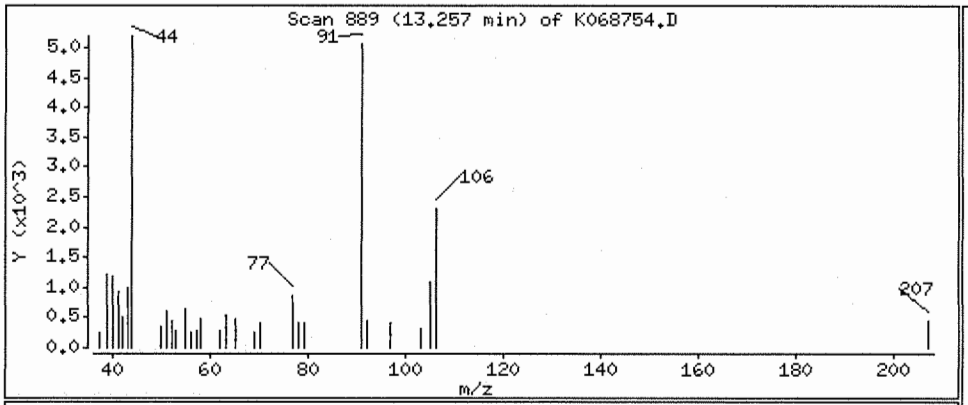
Operator: X

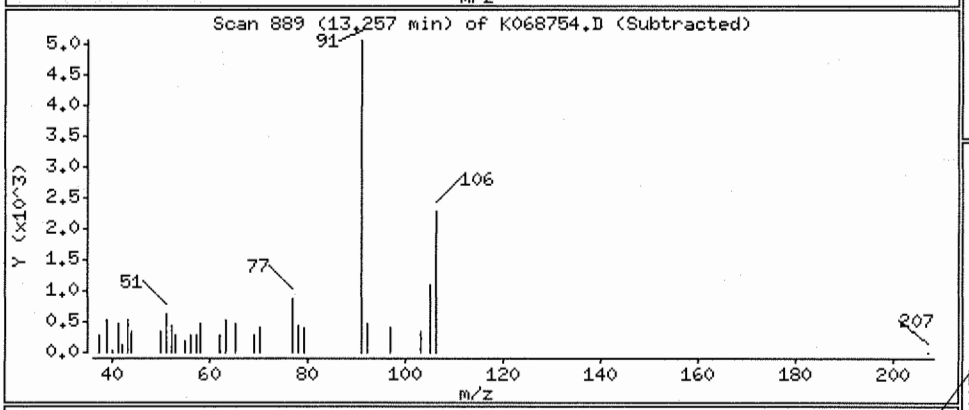
Column phase: DB-624

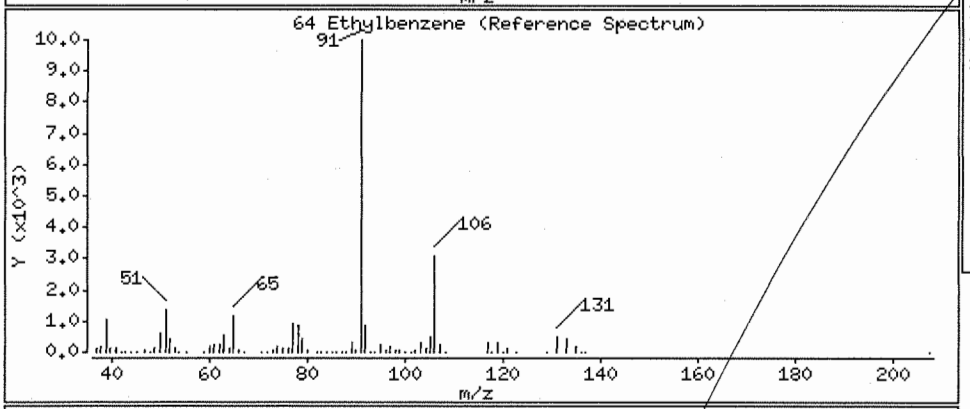
Column diameter: 0.32

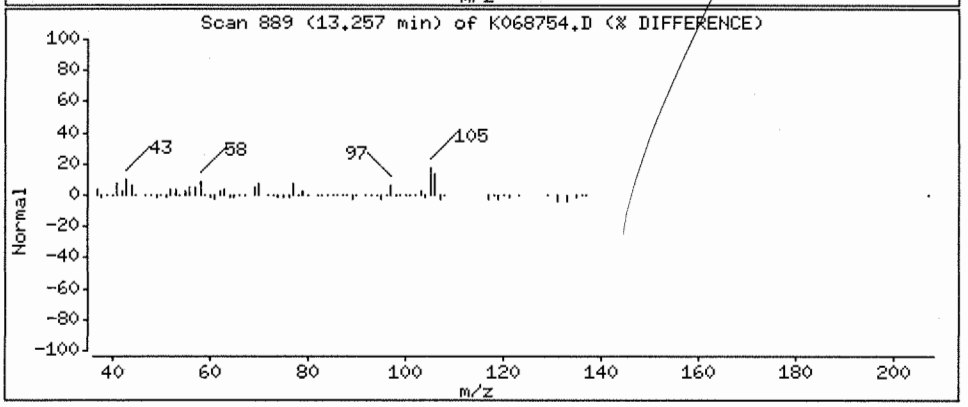
64 Ethylbenzene

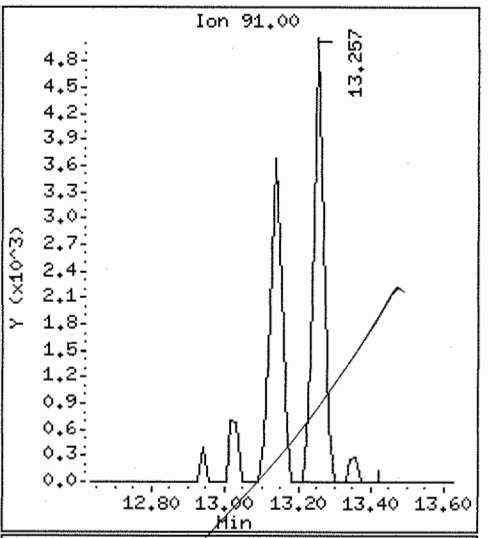
Concentration: 0.122 ug/L

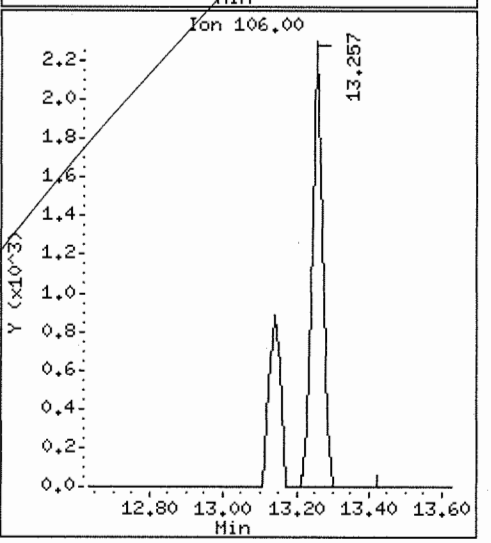












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061229.B\K068754.D

Date : 29-DEC-2006 18:33

Client ID: T-55-GW-70

Instrument: MSK.i

Sample Info: D0602139-008

Purge Volume: 10.0

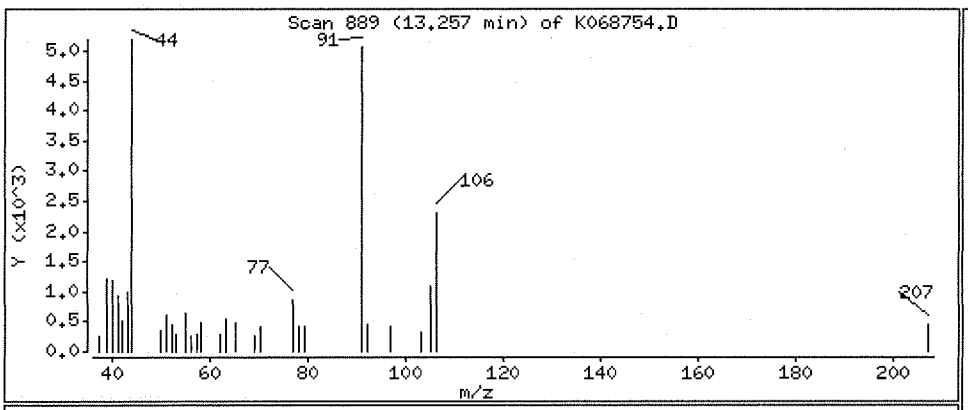
Operator: X

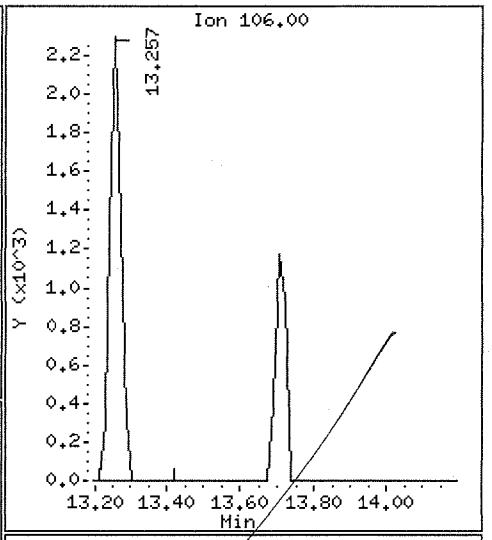
Column phase: DB-624

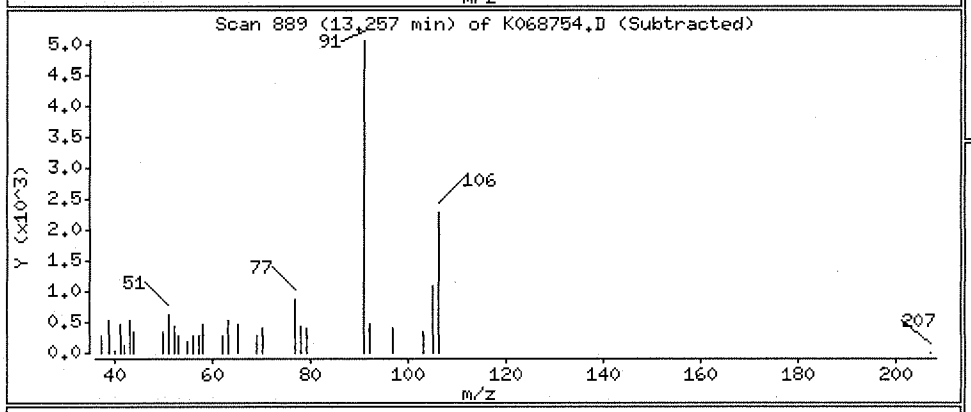
Column diameter: 0.32

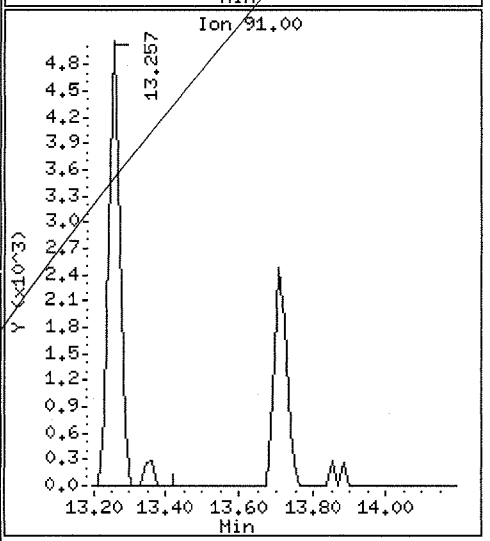
66 o-Xylene

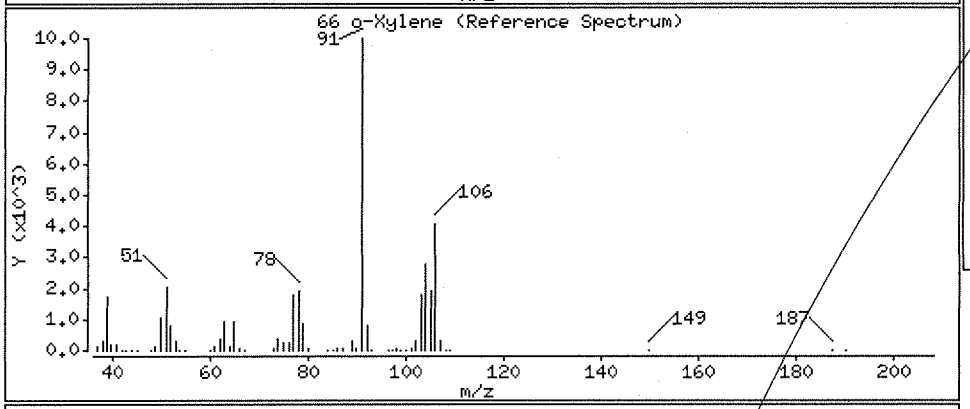
Concentration: 0.163 ug/L

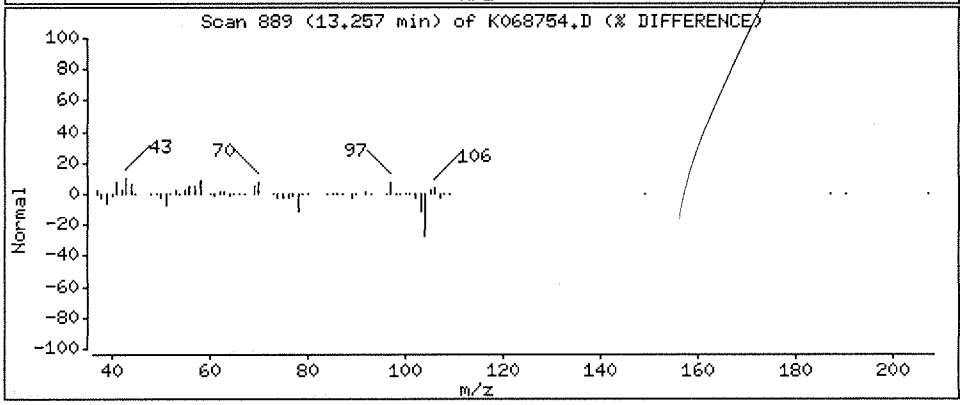












QC Summary

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3	S4
Laboratory Control Sample	K1229W01LCS		84	107	91	89
Laboratory Control Sample Duplicate	K1229W01LCSD		86	109	87	91
Method Blank	K1229W01		91	108	93	89
QCEB	D0602139-001		92	110	95	87
QCEB	D0602139-005		95	111	97	89
T-54-GW-40	D0602139-003		124	98	115	101
T-54-GW-65	D0602139-004		99	112	96	89
T-55-GW-40	D0602139-007		97	109	95	90
T-55-GW-70	D0602139-008		105	110	97	90
T-54-GW-11	D0602139-002		111	97	109	100
T-55-GW-11	D0602139-006		108	97	102	98

Surrogate Recovery Control Limits (%)

S1:	1,2-Dichloroethane-d4 - SS	79-135
S2:	4-Bromofluorobenzene - SS	82-124
S3:	Dibromofluoromethane - SS	84-127
S4:	Toluene-d8 - SS	80-117

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
Date Analyzed: 12/29/2006
Time Analyzed: 0939

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: K068734
Instrument ID: MSK
Analysis Method: SW8260

Analysis Lot: MSK12/29/2006

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	655831	9.67	448709	13.02	239224	15.60
Upper Limit ==>	1311662	10.17	897418	13.52	478448	16.10
Lower Limit ==>	327916	9.17	224355	12.52	119612	15.10

Associated Analyses

Laboratory Control Sample	K1229W01LCS	650988	9.67	462007	13.02	253271	15.60
Laboratory Control Sample Duplicate	K1229W01LCSD	690131	9.67	464038	13.02	254491	15.61
Method Blank	K1229W01	636889	9.67	431836	13.02	216857	15.61
QCEB	D0602139-001	767778	9.68	524965	13.01	274867	15.60
QCEB	D0602139-005	711810	9.70	494507	13.04	258555	15.63
T-54-GW-40	D0602139-003	717983	9.68	521563	13.03	265985	15.62
T-54-GW-65	D0602139-004	695789	9.69	481367	13.03	246564	15.62
T-55-GW-40	D0602139-007	768956	9.68	540485	13.03	277506	15.60
T-55-GW-70	D0602139-008	731874	9.69	525363	13.02	261060	15.61
T-54-GW-11	D0602139-002	695905	9.69	479908	13.02	254423	15.61
T-55-GW-11	D0602139-006	792534	9.68	556083	13.03	299467	15.60

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	12/29/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K1229W01LCS / K1229W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	10.8	10.4	108	104	27-158	4	
Chloromethane	1.0	10.0	12.1	11.4	121	114	51-137	6	
Vinyl Chloride	0.50	10.0	11.8	11.1	118	111	57-137	6	
Bromomethane	1.0	10.0	12.4	11.4	124	114	44-156	8	
Chloroethane	1.0	10.0	10.7	10.4	107	104	60-140	3	
Trichlorofluoromethane (CFC 11)	1.0	10.0	10.9	10.5	109	105	54-146	4	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	10.8	10.0	108	100	67-139	8	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	11.1	10.1	111	101	70-130	9	
Acetone	10	50.0	54.7	53.7	109	107	55-137	2	
Carbon Disulfide	2.0	10.0	10.4	9.85	104	98	50-127	5	
Dichloromethane (Methylene Chloride)	2.0	10.0	10.9	10.5	109	105	73-121	4	
trans-1,2-Dichloroethene	0.50	10.0	10.2	9.63	102	96	74-124	6	
Methyl tert-Butyl Ether	2.0	10.0	10.3	9.96	103	100	75-119	3	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	10.7	10.5	107	105	78-121	2	
Vinyl Acetate	10	10.0	10.2	10.2	102	102	52-129	0	
2,2-Dichloropropane	0.50	10.0	10.1	9.73	101	97	61-137	4	
cis-1,2-Dichloroethene	0.50	10.0	10.4	9.92	104	99	80-118	5	
2-Butanone (MEK)	10	50.0	53.0	53.9	106	108	76-122	2	
Bromochloromethane	0.50	10.0	10.2	9.80	102	98	82-118	4	
Chloroform	0.50	10.0	10.2	9.96	102	100	73-125	2	
1,1,1-Trichloroethane (TCA)	0.50	10.0	10.2	9.89	102	99	76-124	3	
1,1-Dichloropropene	0.50	10.0	10.6	10.3	106	103	80-119	3	
Carbon Tetrachloride	0.50	10.0	9.98	9.61	100	96	68-135	4	
Benzene	0.50	10.0	10.6	10.2	106	102	81-119	4	
1,2-Dichloroethane (EDC)	0.50	10.0	10.9	10.6	109	106	75-122	3	
Trichloroethene (TCE)	0.50	10.0	10.1	9.90	101	99	79-118	2	
1,2-Dichloropropane	0.50	10.0	10.6	10.1	106	101	82-115	5	
Dibromomethane	0.50	10.0	10.2	10.1	102	101	84-116	1	
Bromodichloromethane	1.0	10.0	10.4	10.0	104	100	81-122	4	
cis-1,3-Dichloropropene	0.50	10.0	10.4	9.88	104	99	78-118	5	
4-Methyl-2-pentanone (MIBK)	10	50.0	52.4	52.8	105	106	81-127	1	
Toluene	0.50	10.0	10.2	10.2	102	102	83-116	0	
trans-1,3-Dichloropropene	0.50	10.0	10.2	10.4	102	104	73-122	2	
1,1,2-Trichloroethane	0.50	10.0	10.4	10.8	104	108	83-120	4	
Tetrachloroethene (PCE)	0.50	10.0	9.90	9.80	99	98	82-118	1	
1,3-Dichloropropane	0.50	10.0	10.7	11.0	107	110	82-119	3	
2-Hexanone	10	50.0	52.3	55.2	105	110	81-130	5	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0602139
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	12/29/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K1229W01LCS / K1229W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	10.2	10.4	102	104	79-124	2	
1,2-Dibromoethane (EDB)	1.0	10.0	10.1	10.4	101	104	82-116	3	
Chlorobenzene	0.50	10.0	10.1	9.96	101	100	86-114	1	
1,1,1,2-Tetrachloroethane	0.50	10.0	10.1	10.0	101	100	79-122	1	
Ethylbenzene	0.50	10.0	10.3	10.2	103	102	86-116	1	
Xylenes, Total	1.5	30.0	30.6	30.3	102	101	85-117	1	
Styrene	0.50	10.0	10.3	10.2	103	102	84-119	1	
Bromoform	1.0	10.0	9.55	9.78	96	98	71-133	2	
Isopropylbenzene	1.0	10.0	10.1	10.0	101	100	77-117	1	
1,1,2,2-Tetrachloroethane	0.50	10.0	11.0	11.1	110	111	80-117	1	
Bromobenzene	1.0	10.0	9.82	9.98	98	100	84-120	2	
1,2,3-Trichloropropane	0.50	10.0	10.4	10.5	104	105	81-122	1	
n-Propylbenzene	1.0	10.0	10.0	9.82	100	98	87-117	2	
2-Chlorotoluene	1.0	10.0	10.3	10.0	103	100	87-119	3	
1,3,5-Trimethylbenzene	1.0	10.0	10.1	10.3	101	103	83-120	2	
4-Chlorotoluene	1.0	10.0	9.94	9.76	99	98	86-118	2	
tert-Butylbenzene	1.0	10.0	10.1	9.70	101	97	82-122	4	
1,2,4-Trimethylbenzene	1.0	10.0	10.4	9.90	104	99	86-121	5	
sec-Butylbenzene	1.0	10.0	10.7	10.3	107	103	84-128	4	
1,3-Dichlorobenzene	0.50	10.0	10.1	9.90	101	99	85-119	2	
4-Isopropyltoluene	1.0	10.0	10.2	9.98	102	100	84-121	2	
1,4-Dichlorobenzene	0.50	10.0	10.2	10.0	102	100	84-118	2	
n-Butylbenzene	1.0	10.0	10.2	9.62	102	96	81-123	6	
1,2-Dichlorobenzene	0.50	10.0	10.3	10.1	103	101	85-117	2	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	40.0	38.4	39.9	96	100	67-121	4	
1,2,4-Trichlorobenzene	1.0	10.0	9.50	9.11	95	91	69-128	4	
Hexachlorobutadiene	1.0	10.0	9.19	8.80	92	88	71-135	4	
Naphthalene	1.0	10.0	9.74	9.60	97	96	60-131	1	
1,2,3-Trichlorobenzene	1.0	10.0	9.53	9.14	95	91	69-130	4	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0602139
Date Extracted: 12/29/2006
Date Analyzed: 12/29/2006
Time Analyzed: 11:26

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K1229W01

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	K1229W01LCS	K068735	12/29/2006	10:06
Laboratory Control Sample Duplicate	K1229W01LCSD	K068736	12/29/2006	10:33
QCEB	D0602139-001	K068739	12/29/2006	11:53
QCEB	D0602139-005	K068740	12/29/2006	12:20
T-54-GW-40	D0602139-003	K068745	12/29/2006	14:33
T-54-GW-65	D0602139-004	K068748	12/29/2006	15:54
T-55-GW-40	D0602139-007	K068751	12/29/2006	17:14
T-55-GW-70	D0602139-008	K068754	12/29/2006	18:33
T-54-GW-11	D0602139-002	K068759	12/29/2006	19:53
T-55-GW-11	D0602139-006	K068760	12/29/2006	20:19

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
Date Analyzed: 12/27/2006
Time Analyzed: 1058

Tune Summary
Volatile Organic Compounds

File ID: K068653
Instrument ID: MSK
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.4	73200	PASS
75	95	30	60	44.8	178560	PASS
95	95	100	100	100.0	398592	PASS
96	95	5	9	6.7	26760	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	86.6	345344	PASS
175	174	5	9	7.3	25264	PASS
176	174	95	101	97.0	334976	PASS
177	176	5	9	6.4	21600	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD00.5	VSTD00.5	K068656	12/27/2006	1220	
VSTD001	VSTD001	K068657	12/27/2006	1246	
VSTD005	VSTD005	K068658	12/27/2006	1313	
VSTD010	VSTD010	K068659	12/27/2006	1340	
VSTD020	VSTD020	K068660	12/27/2006	1407	
VSTD040	VSTD040	K068661	12/27/2006	1433	
VSTD100	VSTD100	K068662	12/27/2006	1500	
QCALTSTD	QCALTSTD	K068663	12/27/2006	1526	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
Date Analyzed: 12/29/2006
Time Analyzed: 0848

Tune Summary
Volatile Organic Compounds

File ID: K068732
Instrument ID: MSK
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.7	89272	PASS
75	95	30	60	46.5	210880	PASS
95	95	100	100	100.0	453248	PASS
96	95	5	9	6.7	30176	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	81.6	369728	PASS
175	174	5	9	7.2	26712	PASS
176	174	95	101	96.1	355264	PASS
177	176	5	9	6.5	23224	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	K068734	12/29/2006	0939	
Laboratory Control Sample	K1229W01LCS	K068735	12/29/2006	1006	
Laboratory Control Sample Duplicate	K1229W01LCSD	K068736	12/29/2006	1033	
Method Blank	K1229W01	K068738	12/29/2006	1126	
QCEB	D0602139-001	K068739	12/29/2006	1153	
QCEB	D0602139-005	K068740	12/29/2006	1220	
T-54-GW-40	D0602139-003	K068745	12/29/2006	1433	
T-54-GW-65	D0602139-004	K068748	12/29/2006	1554	
T-55-GW-40	D0602139-007	K068751	12/29/2006	1714	
T-55-GW-70	D0602139-008	K068754	12/29/2006	1833	
T-54-GW-11	D0602139-002	K068759	12/29/2006	1953	
T-55-GW-11	D0602139-006	K068760	12/29/2006	2019	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Standards Data

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
ICAL Date: 12/27/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID
A	K068657
B	K068658
C	K068659
D	K068660
E	K068661
F	K068662
G	K068656

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dichlorodifluoromethane (CFC 12)	A	1.000	0.273	B	5.000	0.290	C	10.00	0.286	D	20.00	0.287	E	40.00	0.293
	F	100.0	0.284	G	0.500	0.317									
* Chloromethane	A	1.000	0.258	B	5.000	0.255	C	10.00	0.240	D	20.00	0.243	E	40.00	0.250
	F	100.0	0.250												
# Vinyl Chloride	A	1.000	0.232	B	5.000	0.239	C	10.00	0.225	D	20.00	0.225	E	40.00	0.234
	F	100.0	0.230	G	0.500	0.263									
Bromomethane	A	1.000	0.126	B	5.000	0.153	C	10.00	0.145	D	20.00	0.146	E	40.00	0.167
	F	100.0	0.184	G	0.500	0.140									
Chloroethane	A	1.000	0.134	B	5.000	0.131	C	10.00	0.118	D	20.00	0.122	E	40.00	0.118
	F	100.0	0.115												
Trichlorofluoromethane (CFC 11)	A	1.000	0.354	B	5.000	0.370	C	10.00	0.363	D	20.00	0.354	E	40.00	0.353
	F	100.0	0.343	G	0.500	0.382									
1,1,2-Trichlorotrifluoroethane	A	1.000	0.242	B	5.000	0.277	C	10.00	0.268	D	20.00	0.257	E	40.00	0.263
	F	100.0	0.248	G	0.500	0.290									
# 1,1-Dichloroethene (1,1-DCE)	A	1.000	0.239	B	5.000	0.238	C	10.00	0.225	D	20.00	0.219	E	40.00	0.222
	F	100.0	0.211	G	0.500	0.305									
Acetone	A	5.000	0.078	B	25.00	0.060	C	50.00	0.057	D	100.0	0.058	E	200.0	0.059
	F	500.0	0.058												
Carbon Disulfide	A	1.000	0.927	B	5.000	0.969	C	10.00	0.963	D	20.00	0.960	E	40.00	0.992
	F	100.0	0.974	G	0.500	1.039									
Dichloromethane (Methylene Chloride)	A	1.000	0.317	B	5.000	0.307	C	10.00	0.311	D	20.00	0.308	E	40.00	0.309
	F	100.0	0.300	G	0.500	0.342									
trans-1,2-Dichloroethene	A	1.000	0.289	B	5.000	0.282	C	10.00	0.276	D	20.00	0.273	E	40.00	0.274
	F	100.0	0.260	G	0.500	0.307									
Methyl tert-Butyl Ether	A	1.000	0.608	B	5.000	0.609	C	10.00	0.596	D	20.00	0.595	E	40.00	0.606
	F	100.0	0.579	G	0.500	0.621									
* 1,1-Dichloroethane (1,1-DCA)	A	1.000	0.506	B	5.000	0.513	C	10.00	0.509	D	20.00	0.498	E	40.00	0.502
	F	100.0	0.472	G	0.500	0.540									
Vinyl Acetate	A	1.000	1.008	B	5.000	0.995	C	10.00	0.961	D	20.00	0.970	E	40.00	1.001
	F	100.0	0.947	G	0.500	0.988									
2,2-Dichloropropane	A	1.000	0.443	B	5.000	0.439	C	10.00	0.412	D	20.00	0.400	E	40.00	0.397
	F	100.0	0.374	G	0.500	0.494									
cis-1,2-Dichloroethene	A	1.000	0.307	B	5.000	0.315	C	10.00	0.301	D	20.00	0.301	E	40.00	0.301
	F	100.0	0.288	G	0.500	0.359									

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
ICAL Date: 12/27/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID
A	K068657
B	K068658
C	K068659
D	K068660
E	K068661
F	K068662
G	K068656

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Butanone (MEK)	A	5.000	0.084	B	25.00	0.085	C	50.00	0.085	D	100.0	0.090	E	200.0	0.093
	F	500.0	0.096	G	2.500	0.084									
Bromochloromethane	A	1.000	0.153	B	5.000	0.149	C	10.00	0.147	D	20.00	0.144	E	40.00	0.147
	F	100.0	0.141	G	0.500	0.158									
# Chloroform	A	1.000	0.583	B	5.000	0.581	C	10.00	0.571	D	20.00	0.556	E	40.00	0.559
	F	100.0	0.533	G	0.500	0.644									
1,1,1-Trichloroethane (TCA)	A	1.000	0.407	B	5.000	0.428	C	10.00	0.416	D	20.00	0.413	E	40.00	0.410
	F	100.0	0.397	G	0.500	0.433									
1,1-Dichloropropene	A	1.000	0.351	B	5.000	0.370	C	10.00	0.374	D	20.00	0.374	E	40.00	0.380
	F	100.0	0.366	G	0.500	0.399									
Carbon Tetrachloride	A	1.000	0.302	B	5.000	0.324	C	10.00	0.320	D	20.00	0.313	E	40.00	0.316
	F	100.0	0.310	G	0.500	0.346									
Benzene	A	1.000	1.000	B	5.000	1.044	C	10.00	1.007	D	20.00	1.005	E	40.00	1.020
	F	100.0	0.999	G	0.500	1.144									
1,2-Dichloroethane (EDC)	A	1.000	0.385	B	5.000	0.400	C	10.00	0.385	D	20.00	0.384	E	40.00	0.384
	F	100.0	0.362	G	0.500	0.383									
Trichloroethene (TCE)	A	1.000	0.355	B	5.000	0.306	C	10.00	0.290	D	20.00	0.289	E	40.00	0.291
	F	100.0	0.287	G	0.500	0.440									
# 1,2-Dichloropropane	A	1.000	0.267	B	5.000	0.275	C	10.00	0.266	D	20.00	0.270	E	40.00	0.275
	F	100.0	0.272	G	0.500	0.274									
Dibromomethane	A	1.000	0.208	B	5.000	0.193	C	10.00	0.194	D	20.00	0.193	E	40.00	0.195
	F	100.0	0.190	G	0.500	0.193									
Bromodichloromethane	A	1.000	0.397	B	5.000	0.394	C	10.00	0.392	D	20.00	0.394	E	40.00	0.405
	F	100.0	0.398	G	0.500	0.413									
cis-1,3-Dichloropropene	A	1.000	0.409	B	5.000	0.430	C	10.00	0.424	D	20.00	0.432	E	40.00	0.453
	F	100.0	0.458	G	0.500	0.420									
4-Methyl-2-pentanone (MIBK)	A	5.000	0.213	B	25.00	0.201	C	50.00	0.196	D	100.0	0.212	E	200.0	0.228
	F	500.0	0.235	G	2.500	0.185									
# Toluene	A	1.000	0.903	B	5.000	0.911	C	10.00	0.884	D	20.00	0.916	E	40.00	0.916
	F	100.0	0.912	G	0.500	0.948									
trans-1,3-Dichloropropene	A	1.000	0.526	B	5.000	0.518	C	10.00	0.515	D	20.00	0.535	E	40.00	0.551
	F	100.0	0.562	G	0.500	0.550									
1,1,2-Trichloroethane	A	1.000	0.283	B	5.000	0.267	C	10.00	0.264	D	20.00	0.268	E	40.00	0.267
	F	100.0	0.267	G	0.500	0.295									

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
ICAL Date: 12/27/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K068657	F	K068662
B	K068658	G	K068656
C	K068659		
D	K068660		
E	K068661		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Tetrachloroethene (PCE)	A	1.000	0.448	B	5.000	0.444	C	10.00	0.425	D	20.00	0.423	E	40.00	0.425
	F	100.0	0.414	G	0.500	0.521									
1,3-Dichloropropane	A	1.000	0.510	B	5.000	0.500	C	10.00	0.491	D	20.00	0.499	E	40.00	0.508
	F	100.0	0.502	G	0.500	0.502									
2-Hexanone	A	5.000	0.199	B	25.00	0.192	C	50.00	0.193	D	100.0	0.204	E	200.0	0.222
	F	500.0	0.216	G	2.500	0.164									
Dibromochloromethane	A	1.000	0.352	B	5.000	0.345	C	10.00	0.346	D	20.00	0.363	E	40.00	0.375
	F	100.0	0.389	G	0.500	0.348									
1,2-Dibromoethane (EDB)	A	1.000	0.346	B	5.000	0.315	C	10.00	0.308	D	20.00	0.324	E	40.00	0.333
	F	100.0	0.340	G	0.500	0.298									
* Chlorobenzene	A	1.000	0.996	B	5.000	0.988	C	10.00	0.965	D	20.00	0.980	E	40.00	0.986
	F	100.0	0.978	G	0.500	1.095									
1,1,1,2-Tetrachloroethane	A	1.000	0.345	B	5.000	0.348	C	10.00	0.334	D	20.00	0.340	E	40.00	0.350
	F	100.0	0.354	G	0.500	0.335									
# Ethylbenzene	A	1.000	1.744	B	5.000	1.776	C	10.00	1.729	D	20.00	1.780	E	40.00	1.805
	F	100.0	1.748	G	0.500	1.830									
Xylenes, Total	A	3.000	0.587	B	15.00	0.595	C	30.00	0.581	D	60.00	0.592	E	120.0	0.590
	F	300.0	0.574	G	1.500	0.597									
Styrene	A	1.000	0.940	B	5.000	1.011	C	10.00	0.993	D	20.00	1.039	E	40.00	1.050
	F	100.0	1.043	G	0.500	0.957									
* Bromoform	A	1.000	0.224	B	5.000	0.234	C	10.00	0.229	D	20.00	0.247	E	40.00	0.268
	F	100.0	0.284	G	0.500	0.223									
Isopropylbenzene	A	1.000	1.465	B	5.000	1.547	C	10.00	1.507	D	20.00	1.539	E	40.00	1.591
	F	100.0	1.574	G	0.500	1.487									
* 1,1,2,2-Tetrachloroethane	A	1.000	0.722	B	5.000	0.720	C	10.00	0.718	D	20.00	0.724	E	40.00	0.778
	F	100.0	0.782	G	0.500	0.702									
Bromobenzene	A	1.000	0.951	B	5.000	0.904	C	10.00	0.888	D	20.00	0.902	E	40.00	0.909
	F	100.0	0.912	G	0.500	0.938									
1,2,3-Trichloropropane	A	1.000	0.184	B	5.000	0.161	C	10.00	0.157	D	20.00	0.164	E	40.00	0.168
	F	100.0	0.164	G	0.500	0.147									
n-Propylbenzene	A	1.000	0.671	B	5.000	0.714	C	10.00	0.695	D	20.00	0.707	E	40.00	0.712
	F	100.0	0.711	G	0.500	0.699									
2-Chlorotoluene	A	1.000	0.693	B	5.000	0.688	C	10.00	0.671	D	20.00	0.667	E	40.00	0.682
	F	100.0	0.676	G	0.500	0.727									

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* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
ICAL Date: 12/27/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID
A	K068657
B	K068658
C	K068659
D	K068660
E	K068661
F	K068662
G	K068656

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,3,5-Trimethylbenzene	A	1.000	2.436	B	5.000	2.426	C	10.00	2.418	D	20.00	2.417	E	40.00	2.442
	F	100.0	2.441	G	0.500	2.464									
4-Chlorotoluene	A	1.000	0.722	B	5.000	0.710	C	10.00	0.689	D	20.00	0.700	E	40.00	0.702
	F	100.0	0.724	G	0.500	0.792									
tert-Butylbenzene	A	1.000	1.979	B	5.000	2.095	C	10.00	2.112	D	20.00	2.096	E	40.00	2.194
	F	100.0	2.220	G	0.500	2.072									
1,2,4-Trimethylbenzene	A	1.000	2.284	B	5.000	2.463	C	10.00	2.415	D	20.00	2.450	E	40.00	2.507
	F	100.0	2.509	G	0.500	2.262									
sec-Butylbenzene	A	1.000	2.677	B	5.000	2.754	C	10.00	2.778	D	20.00	2.873	E	40.00	2.892
	F	100.0	2.944	G	0.500	2.853									
1,3-Dichlorobenzene	A	1.000	1.592	B	5.000	1.570	C	10.00	1.536	D	20.00	1.527	E	40.00	1.543
	F	100.0	1.540	G	0.500	1.598									
4-Isopropyltoluene	A	1.000	2.090	B	5.000	2.333	C	10.00	2.352	D	20.00	2.390	E	40.00	2.447
	F	100.0	2.439	G	0.500	2.197									
1,4-Dichlorobenzene	A	1.000	1.602	B	5.000	1.562	C	10.00	1.543	D	20.00	1.548	E	40.00	1.563
	F	100.0	1.558	G	0.500	1.634									
n-Butylbenzene	A	1.000	2.305	B	5.000	2.518	C	10.00	2.561	D	20.00	2.639	E	40.00	2.716
	F	100.0	2.691	G	0.500	2.462									
1,2-Dichlorobenzene	A	1.000	1.441	B	5.000	1.437	C	10.00	1.405	D	20.00	1.417	E	40.00	1.448
	F	100.0	1.420	G	0.500	1.478									
1,2-Dibromo-3-chloropropane (DBCP)	A	4.000	0.138	B	20.00	0.119	C	40.00	0.113	D	80.00	0.121	E	160.0	0.125
	F	400.0	0.123	G	2.000	0.123									
1,2,4-Trichlorobenzene	A	1.000	1.015	B	5.000	0.991	C	10.00	0.984	D	20.00	1.020	E	40.00	1.043
	F	100.0	1.046	G	0.500	0.990									
Hexachlorobutadiene	A	1.000	0.486	B	5.000	0.496	C	10.00	0.495	D	20.00	0.497	E	40.00	0.491
	F	100.0	0.489	G	0.500	0.491									
Naphthalene	A	1.000	1.460	B	5.000	1.493	C	10.00	1.455	D	20.00	1.613	E	40.00	1.672
	F	100.0	1.694	G	0.500	1.350									
1,2,3-Trichlorobenzene	A	1.000	0.860	B	5.000	0.886	C	10.00	0.848	D	20.00	0.893	E	40.00	0.922
	F	100.0	0.928	G	0.500	0.872									
Dibromofluoromethane	A	1.000	0.292	B	5.000	0.320	C	10.00	0.320	D	20.00	0.324	E	40.00	0.316
1,2-Dichloroethane-d4	A	1.000	0.343	B	5.000	0.330	C	10.00	0.328	D	20.00	0.332	E	40.00	0.323

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
ICAL Date: 12/27/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K068657	F	K068662
B	K068658	G	K068656
C	K068659		
D	K068660		
E	K068661		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Toluene-d8	A	1.000	1.220	B	5.000	1.293	C	10.00	1.279	D	20.00	1.300	E	40.00	1.295
4-Bromofluorobenzene	A	1.000	0.831	B	5.000	0.880	C	10.00	0.854	D	20.00	0.885	E	40.00	0.881

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
ICAL Date: 12/27/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK
Mean RSD: 4.80

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
Dichlorodifluoromethane (CFC 12)	TRG	AverageRF	% RSD	4.6		15.0	0.290		0.01
* Chloromethane	TRG	AverageRF	% RSD	2.7		15.0	0.249		0.10
# Vinyl Chloride	TRG	AverageRF	% RSD	5.6		15.0	0.235		0.01
Bromomethane	TRG	AverageRF	% RSD	12.6		15.0	0.152		0.01
Chloroethane	TRG	AverageRF	% RSD	6.2		15.0	0.123		0.01
Trichlorofluoromethane (CFC 11)	TRG	AverageRF	% RSD	3.6		15.0	0.360		0.01
1,1,2-Trichlorotrifluoroethane	TRG	AverageRF	% RSD	6.2		15.0	0.264		0.01
# 1,1-Dichloroethene (1,1-DCE)	TRG	AverageRF	% RSD	13.3		15.0	0.237		0.01
Acetone	TRG	AverageRF	% RSD	13.3		15.0	0.062		0.01
Carbon Disulfide	TRG	AverageRF	% RSD	3.5		15.0	0.975		0.01
Dichloromethane (Methylene Chloride)	TRG	AverageRF	% RSD	4.4		15.0	0.313		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	5.3		15.0	0.280		0.01
Methyl tert-Butyl Ether	TRG	AverageRF	% RSD	2.2		15.0	0.602		0.01
* 1,1-Dichloroethane (1,1-DCA)	TRG	AverageRF	% RSD	4.0		15.0	0.506		0.10
Vinyl Acetate	TRG	AverageRF	% RSD	2.3		15.0	0.981		0.01
2,2-Dichloropropane	TRG	AverageRF	% RSD	9.3		15.0	0.423		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	7.4		15.0	0.310		0.01
2-Butanone (MEK)	TRG	AverageRF	% RSD	5.5		15.0	0.088		0.01
Bromochloromethane	TRG	AverageRF	% RSD	3.8		15.0	0.148		0.01
# Chloroform	TRG	AverageRF	% RSD	6.0		15.0	0.575		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	3.0		15.0	0.415		0.01
1,1-Dichloropropene	TRG	AverageRF	% RSD	3.9		15.0	0.373		0.01
Carbon Tetrachloride	TRG	AverageRF	% RSD	4.4		15.0	0.319		0.01
Benzene	TRG	AverageRF	% RSD	5.0		15.0	1.031		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	2.9		15.0	0.383		0.01
Trichloroethene (TCE)	TRG	Linear	r	1.000		0.995	0.322		0.01
# 1,2-Dichloropropane	TRG	AverageRF	% RSD	1.4		15.0	0.271		0.01
Dibromomethane	TRG	AverageRF	% RSD	3.1		15.0	0.195		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	1.8		15.0	0.399		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	4.1		15.0	0.432		0.01
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF	% RSD	8.4		15.0	0.210		0.01
# Toluene	TRG	AverageRF	% RSD	2.1		15.0	0.913		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	3.3		15.0	0.537		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	4.3		15.0	0.273		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	8.2		15.0	0.443		0.01
1,3-Dichloropropane	TRG	AverageRF	% RSD	1.2		15.0	0.502		0.01
2-Hexanone	TRG	AverageRF	% RSD	9.4		15.0	0.198		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0602139
ICAL Date: 12/27/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 12/27/2006MSK
Instrument ID: MSK
Mean RSD: 4.80

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
Dibromochloromethane	TRG	AverageRF	% RSD	4.7		15.0	0.360		0.01
1,2-Dibromoethane (EDB)	TRG	AverageRF	% RSD	5.4		15.0	0.323		0.01
* Chlorobenzene	TRG	AverageRF	% RSD	4.4		15.0	0.998		0.30
1,1,1,2-Tetrachloroethane	TRG	AverageRF	% RSD	2.2		15.0	0.344		0.01
# Ethylbenzene	TRG	AverageRF	% RSD	2.0		15.0	1.773		0.01
Xylenes, Total	TRG	AverageRF	% RSD	1.4		15.0	0.588		0.01
Styrene	TRG	AverageRF	% RSD	4.3		15.0	1.005		0.01
* Bromoform	TRG	AverageRF	% RSD	9.7		15.0	0.244		0.10
Isopropylbenzene	TRG	AverageRF	% RSD	3.0		15.0	1.530		0.01
* 1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	4.3		15.0	0.735		0.30
Bromobenzene	TRG	AverageRF	% RSD	2.4		15.0	0.915		0.01
1,2,3-Trichloropropane	TRG	AverageRF	% RSD	7.0		15.0	0.164		0.01
n-Propylbenzene	TRG	AverageRF	% RSD	2.2		15.0	0.701		0.01
2-Chlorotoluene	TRG	AverageRF	% RSD	2.9		15.0	0.686		0.01
1,3,5-Trimethylbenzene	TRG	AverageRF	% RSD	0.7		15.0	2.435		0.01
4-Chlorotoluene	TRG	AverageRF	% RSD	4.8		15.0	0.720		0.01
tert-Butylbenzene	TRG	AverageRF	% RSD	3.8		15.0	2.110		0.01
1,2,4-Trimethylbenzene	TRG	AverageRF	% RSD	4.2		15.0	2.413		0.01
sec-Butylbenzene	TRG	AverageRF	% RSD	3.3		15.0	2.824		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	1.8		15.0	1.558		0.01
4-Isopropyltoluene	TRG	AverageRF	% RSD	5.7		15.0	2.321		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	2.1		15.0	1.573		0.01
n-Butylbenzene	TRG	AverageRF	% RSD	5.6		15.0	2.556		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	1.7		15.0	1.435		0.01
1,2-Dibromo-3-chloropropane (DBCP)	TRG	AverageRF	% RSD	6.3		15.0	0.123		0.01
1,2,4-Trichlorobenzene	TRG	AverageRF	% RSD	2.5		15.0	1.013		0.01
Hexachlorobutadiene	TRG	AverageRF	% RSD	0.8		15.0	0.492		0.01
Naphthalene	TRG	AverageRF	% RSD	8.3		15.0	1.534		0.01
1,2,3-Trichlorobenzene	TRG	AverageRF	% RSD	3.4		15.0	0.887		0.01
Dibromofluoromethane	SUR	AverageRF	% RSD	4.0		15.0	0.314		0.01
1,2-Dichloroethane-d4	SUR	AverageRF	% RSD	2.2		15.0	0.331		0.01
Toluene-d8	SUR	AverageRF	% RSD	2.6		15.0	1.277		0.01
4-Bromofluorobenzene	SUR	AverageRF	% RSD	2.6		15.0	0.866		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068656.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 27-DEC-2006 12:20
Operator : X Inst ID: MSK.i
Smp Info : VSTD00.5;VSTD00.5
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\8260w10(0.5).m
Meth Date : 28-Dec-2006 09:15 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 12:20 Cal File: K068656.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.694	9.687	(1.000)	619343	10.0000	
* 2	Chlorobenzene-d5	117	13.041	13.034	(1.000)	427206	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.629	15.622	(1.000)	241763	10.0000	
$ 4	Dibromofluoromethane	113	Compound Not Detected.					
$ 5	1,2-Dichloroethane-d4	65	9.308	9.300	(0.960)	837	0.50000	0.0394(a)
$ 6	Toluene-d8	98	Compound Not Detected.					
$ 7	Bromofluorobenzene	174	Compound Not Detected.					
8	Dichlorodifluoromethane	85	3.507	3.514	(0.362)	9809	0.50000	0.581(aQ)
9	1,2-Dichlorotetrafluoroethane	85	3.745	3.752	(0.386)	8272	0.50000	0.595(aQ)
10	Chloromethane	50	3.849	3.842	(0.397)	11385	0.50000	0.712(aQ)
11	Vinyl chloride	62	4.057	4.050	(0.419)	8155	0.50000	0.567(aQ)
12	Bromomethane	94	4.667	4.645	(0.481)	4334	0.50000	0.556(aQ)
13	Chloroethane	64	4.846	4.823	(0.500)	5453	0.50000	0.659(a)
14	Trichlorofluoromethane	101	5.277	5.269	(0.544)	11835	0.50000	0.540(aQ)
15	1,1,2-Trichlorotrifluoroethane	101	6.050	6.043	(0.624)	8969	0.50000	0.599(aQ)
16	Acrolein	56	5.887	5.864	(0.607)	3144	5.00000	4.10(aQ)
17	1,1-Dichloroethene	96	6.080	6.073	(0.627)	9444	0.50000	0.638(aQ)
18	Acetone	43	6.095	6.087	(0.629)	13236	2.50000	2.72(a)
19	Bromoethane	108	6.333	6.325	(0.653)	6432	0.50000	0.528(aQ)
20	Iodomethane	142	6.318	6.311	(0.652)	8170	0.50000	0.589(aQ)
21	Carbon disulfide	76	6.452	6.444	(0.666)	32181	0.50000	0.561(a)
22	Methylene chloride	84	6.735	6.727	(0.695)	10603	0.50000	0.539(aQ)
23	tert-Butanol	59	6.794	6.787	(0.701)	4735	5.00000	3.68(aQ)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24	Acrylonitrile	53	7.017	7.010	(0.724)	23164	5.00000	5.16(aQ)
25	n-Hexane	57	8.133	8.125	(0.839)	8495	0.50000	0.539(aQ)
26	trans-1,2-Dichloroethene	96	7.121	7.114	(0.735)	9521	0.50000	0.532(aQ)
27	tert-Butylmethylether	73	7.092	7.084	(0.732)	19229	0.50000	0.511(aQ)
28	1,1-Dichloroethane	63	7.642	7.634	(0.788)	16710	0.50000	0.533(aQ)
29	Isopropylether	45	7.686	7.679	(0.793)	36410	0.50000	0.572(a)
30	Vinyl acetate	43	7.657	7.649	(0.790)	30611	0.50000	0.490(a)
31	tert-Butylethylether	59	8.133	8.125	(0.839)	24482	0.50000	0.536(aQ)
32	2,2-Dichloropropane	77	8.371	8.363	(0.863)	15291	0.50000	0.557(aQ)
33	cis-1,2-Dichloroethene	96	8.356	8.348	(0.862)	11116	0.50000	0.584(aQ)
M 34	1,2-Dichloroethene (total)	96				20637	1.00000	(a)
35	2-Butanone	43	8.326	8.319	(0.859)	12933	2.50000	2.48(a)
36	Bromochloromethane	128	8.653	8.646	(0.893)	4878	0.50000	0.514(aQ)
37	Chloroform	83	8.713	8.705	(0.899)	19944	0.50000	0.552(aQ)
38	1,1,1-Trichloroethane	97	8.981	8.973	(0.926)	13416	0.50000	0.533(aQ)
39	Isobutyl alcohol	43	9.144	9.122	(0.943)	4724	12.5000	9.78(aQ)
40	1,1-Dichloropropene	75	9.159	9.166	(0.945)	12364	0.50000	0.569(aQ)
41	Carbon tetrachloride	119	9.189	9.196	(0.948)	10723	0.50000	0.573(aQ)
42	tert-Amylmethylether	73	9.471	9.464	(0.977)	19245	0.50000	0.488(aQ)
43	Benzene	78	9.412	9.404	(0.971)	35413	0.50000	0.572(a)
44	1,2-Dichloroethane	62	9.397	9.390	(0.969)	11858	0.50000	0.497(aQ)
45	Trichloroethene	95	10.126	10.118	(1.044)	13633	0.50000	0.619(aQ)
46	1,2-Dichloropropane	63	10.364	10.356	(1.069)	8480	0.50000	0.512(aQ)
47	1,4-Dioxane	88	10.498	10.475	(1.083)	1056	12.5000	7.77(aQ)
48	Dibromomethane	93	10.498	10.490	(1.083)	5992	0.50000	0.464(aQ)
49	Bromodichloromethane	83	10.632	10.639	(1.097)	12782	0.50000	0.519(aQ)
50	2-Chloroethylvinyl ether	63	10.899	10.892	(1.124)	40060	5.00000	4.89(aQ)
51	cis-1,3-Dichloropropene	75	11.122	11.115	(1.147)	12993	0.50000	0.513(aQ)
52	4-Methyl-2-pentanone	43	11.226	11.219	(1.158)	28636	2.50000	2.17(aQ)
53	Toluene	92	11.524	11.516	(0.884)	20262	0.50000	0.525(aQ)
54	trans-1,3-Dichloropropene	75	11.702	11.695	(0.897)	11738	0.50000	0.522(aQ)
55	1,1,2-Trichloroethane	83	11.911	11.903	(0.913)	6305	0.50000	0.522(aQ)
56	Tetrachloroethene	166	12.149	12.141	(0.932)	11125	0.50000	0.582(aQ)
57	1,3-Dichloropropane	76	12.104	12.111	(0.928)	10733	0.50000	0.493(aQ)
58	2-Hexanone	43	12.134	12.111	(0.930)	17552	2.50000	2.06(aQ)
59	Dibromochloromethane	129	12.387	12.379	(0.950)	7429	0.50000	0.494(aQ)
60	1,2-Dibromoethane	107	12.550	12.543	(0.962)	6358	0.50000	0.430(aQ)
61	1-Chlorohexane	91	12.967	12.959	(0.994)	12592	0.50000	0.552(aQ)
62	Chlorobenzene	112	13.071	13.063	(1.002)	23389	0.50000	0.550(aQ)
63	1,1,1,2-Tetrachloroethane	131	13.130	13.138	(1.007)	7163	0.50000	0.486(aQ)
64	Ethylbenzene	91	13.145	13.153	(1.008)	39079	0.50000	0.524(a)
65	m-,p-Xylene	106	13.279	13.272	(1.018)	25642	1.00000	0.993(aQ)
66	o-Xylene	106	13.725	13.718	(1.052)	12629	0.50000	0.534(aQ)
M 67	Xylene (total)	106				38271	1.50000	(a)
68	Styrene	104	13.725	13.718	(1.052)	20443	0.50000	0.509(aQ)
69	Bromoform	173	13.978	13.971	(1.072)	4759	0.50000	0.498(aQ)
70	Isopropylbenzene	105	14.097	14.105	(1.081)	31768	0.50000	0.508(a)
71	1,1,2,2-Tetrachloroethane	83	14.380	14.387	(0.920)	8492	0.50000	0.486(aQ)
72	Bromobenzene	156	14.514	14.506	(0.929)	11343	0.50000	0.493(aQ)
73	1,2,3-Trichloropropane	110	14.469	14.462	(0.926)	1775	0.50000	0.398(aQ)
74	n-Propylbenzene	120	14.558	14.551	(0.931)	8453	0.50000	0.521(aQ)
75	trans-1,4-Dichloro-2-butene	53	14.439	14.432	(0.924)	16929	0.50000	0.443(aAQ)
76	2-Chlorotoluene	126	14.692	14.700	(0.940)	8784	0.50000	0.524(a)
77	4-Ethyltoluene	105	14.662	14.670	(0.938)	32294	0.50000	0.452(aA)

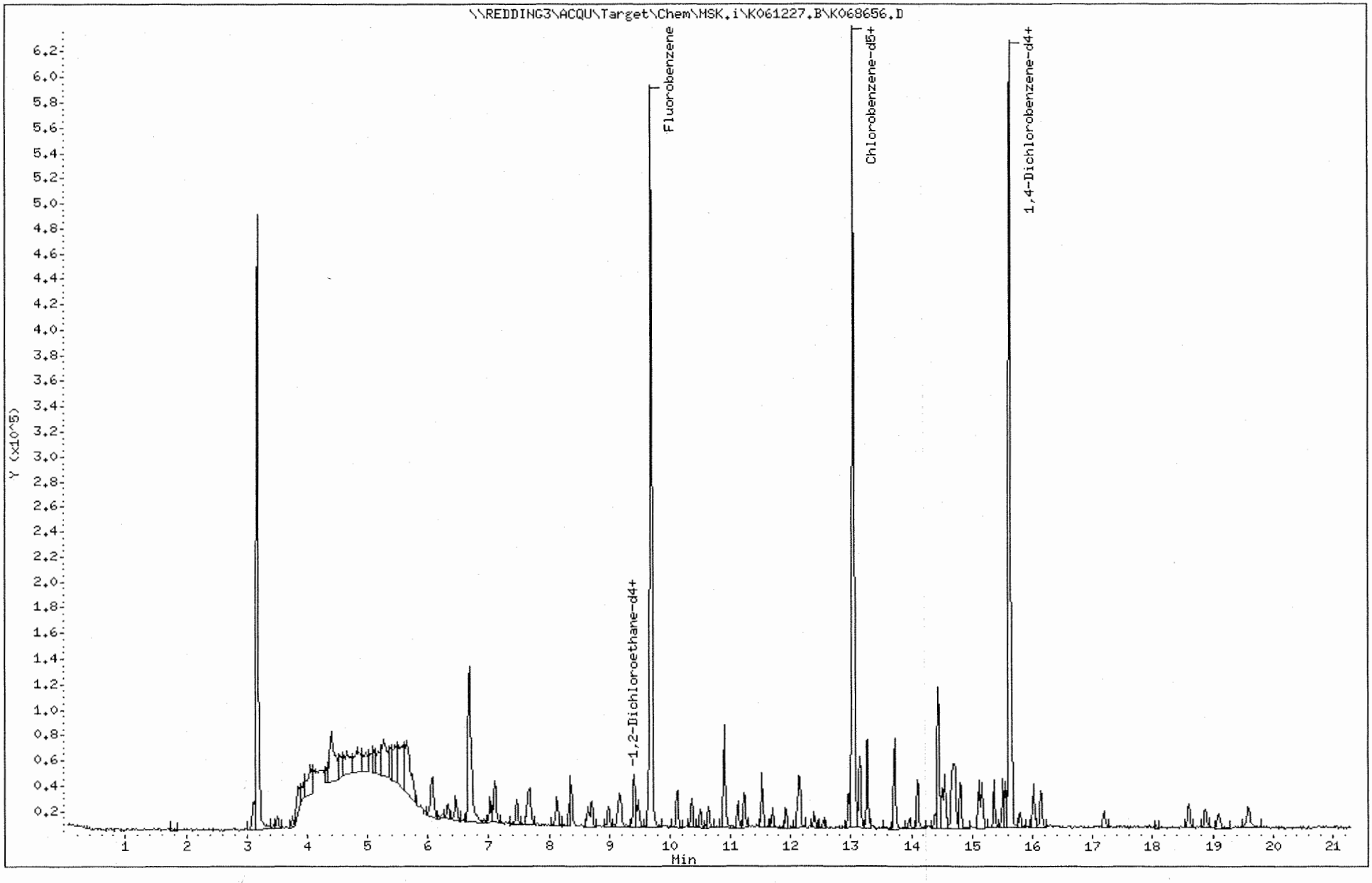
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78	1,3,5-Trimethylbenzene	105	14.722	14.714	(0.942)	29783	0.50000	0.506(aQ)
79	4-Chlorotoluene	126	14.811	14.804	(0.948)	9580	0.50000	0.549(a)
80	tert-Butylbenzene	119	15.109	15.116	(0.967)	25045	0.50000	0.524(aQ)
81	1,2,4-Trimethylbenzene	105	15.168	15.161	(0.970)	27343	0.50000	0.495(aQ)
82	sec-Butylbenzene	105	15.361	15.354	(0.983)	34486	0.50000	0.533(a)
83	1,3-Dichlorobenzene	146	15.555	15.547	(0.995)	19312	0.50000	0.502(aQ)
84	p-Isopropyltoluene	119	15.510	15.503	(0.992)	26553	0.50000	0.525(aQ)
85	1,4-Dichlorobenzene	146	15.659	15.651	(1.002)	19748	0.50000	0.510(aQ)
86	BenzylChloride	126	14.811	14.804	(0.948)	9580	0.50000	0.549(aQ)
87	n-Butylbenzene	91	16.016	16.008	(1.025)	29759	0.50000	0.534(aQ)
88	1,2-Dichlorobenzene	146	16.150	16.142	(1.033)	17861	0.50000	0.512(aQ)
89	1,2-Dibromo-3-chloropropane	75	17.191	17.183	(1.100)	5957	2.00000	1.78(aQ)
90	1,2,4-Trichlorobenzene	180	18.604	18.596	(1.190)	11967	0.50000	0.488(aQ)
91	Hexachlorobutadiene	225	18.872	18.879	(1.207)	5940	0.50000	0.505(aQ)
92	Naphthalene	128	19.095	19.087	(1.222)	16322	0.50000	0.462(a)
93	1,2,3-Trichlorobenzene	180	19.601	19.593	(1.254)	10535	0.50000	0.507(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068656.D
Date : 27-DEC-2006 12:20
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068657.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 27-DEC-2006 12:46
Operator : X Inst ID: MSK.i
Smp Info : VSTD001;VSTD001
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\8260w10(0.5).m
Meth Date : 28-Dec-2006 09:15 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 12:46 Cal File: K068657.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	9.702	9.687	(1.000)	617293	10.0000	
* 2	Chlorobenzene-d5	117	13.033	13.034	(1.000)	434192	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.622	15.622	(1.000)	240404	10.0000	
$ 4	Dibromofluoromethane	113	8.899	8.884	(0.917)	18044	1.00000	1.00(Q)
$ 5	1,2-Dichloroethane-d4	65	9.300	9.300	(0.959)	21191	1.00000	1.00
$ 6	Toluene-d8	98	11.442	11.442	(0.878)	52968	1.00000	1.00(Q)
$ 7	Bromofluorobenzene	174	14.298	14.298	(0.915)	19978	1.00000	1.00(Q)
8	Dichlorodifluoromethane	85	3.514	3.514	(0.362)	16837	1.00000	0.925(aQ)
9	1,2-Dichlorotetrafluoroethane	85	3.752	3.752	(0.387)	13851	1.00000	0.913(aQ)
10	Chloromethane	50	3.841	3.842	(0.396)	15932	1.00000	1.00(Q)
11	Vinyl chloride	62	4.050	4.050	(0.417)	14345	1.00000	0.938(aQ)
12	Bromomethane	94	4.659	4.645	(0.480)	7765	1.00000	0.947(aQ)
13	Chloroethane	64	4.838	4.823	(0.499)	8249	1.00000	1.00(Q)
14	Trichlorofluoromethane	101	5.269	5.269	(0.543)	21855	1.00000	0.962(aQ)
15	1,1,2-Trichlorotrifluoroethane	101	6.058	6.043	(0.624)	14920	1.00000	0.910(aQ)
16	Acrolein	56	5.879	5.864	(0.606)	7648	10.0000	11.0(Q)
17	1,1-Dichloroethene	96	6.072	6.073	(0.626)	14764	1.00000	0.879(aQ)
18	Acetone	43	6.087	6.087	(0.627)	24229	5.00000	5.00
19	Bromoethane	108	6.325	6.325	(0.652)	12139	1.00000	0.973(aQ)
20	Iodomethane	142	6.325	6.311	(0.652)	13828	1.00000	0.918(aQ)
21	Carbon disulfide	76	6.459	6.444	(0.666)	57205	1.00000	0.943(a)
22	Methylene chloride	84	6.727	6.727	(0.693)	19593	1.00000	0.962(aQ)
23	tert-Butanol	59	6.786	6.787	(0.700)	12836	10.0000	11.5(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 Acrylonitrile	53	7.010	7.010	(0.723)	44756	10.0000	9.84(aQ)
	25 n-Hexane	57	8.125	8.125	(0.837)	15714	1.00000	0.963(aQ)
	26 trans-1,2-Dichloroethene	96	7.114	7.114	(0.733)	17829	1.00000	0.969(aQ)
	27 tert-Butylmethylether	73	7.099	7.084	(0.732)	37519	1.00000	0.989(aQ)
	28 1,1-Dichloroethane	63	7.649	7.634	(0.788)	31269	1.00000	0.968(aQ)
	29 Isopropylether	45	7.694	7.679	(0.793)	63450	1.00000	0.933(a)
	30 Vinyl acetate	43	7.649	7.649	(0.788)	62204	1.00000	1.01
	31 tert-Butylethylether	59	8.140	8.125	(0.839)	45546	1.00000	0.965(aQ)
	32 2,2-Dichloropropane	77	8.378	8.363	(0.864)	27356	1.00000	0.946(aQ)
	33 cis-1,2-Dichloroethene	96	8.348	8.348	(0.860)	18956	1.00000	0.922(aQ)
M	34 1,2-Dichloroethene (total)	96				36785	2.00000	(a)
	35 2-Butanone	43	8.318	8.319	(0.857)	25998	5.00000	5.02
	36 Bromochloromethane	128	8.646	8.646	(0.891)	9468	1.00000	0.987(aQ)
	37 Chloroform	83	8.705	8.705	(0.897)	35978	1.00000	0.950(aQ)
	38 1,1,1-Trichloroethane	97	8.988	8.973	(0.926)	25105	1.00000	0.968(aQ)
	39 Isobutyl alcohol	43	9.136	9.122	(0.942)	12032	25.0000	28.0(Q)
	40 1,1-Dichloropropene	75	9.166	9.166	(0.945)	21644	1.00000	0.935(aQ)
	41 Carbon tetrachloride	119	9.196	9.196	(0.948)	18653	1.00000	0.932(aQ)
	42 tert-Amylmethylether	73	9.479	9.464	(0.977)	39274	1.00000	1.01(Q)
	43 Benzene	78	9.419	9.404	(0.971)	61738	1.00000	0.933(a)
	44 1,2-Dichloroethane	62	9.389	9.390	(0.968)	23779	1.00000	1.00(Q)
	45 Trichloroethene	95	10.118	10.118	(1.043)	21940	1.00000	1.00(Q)
	46 1,2-Dichloropropane	63	10.356	10.356	(1.067)	16508	1.00000	0.988(aQ)
	47 1,4-Dioxane	88	10.490	10.475	(1.081)	3386	25.0000	30.8(Q)
	48 Dibromomethane	93	10.505	10.490	(1.083)	12865	1.00000	1.04(Q)
	49 Bromodichloromethane	83	10.639	10.639	(1.097)	24534	1.00000	0.981(aQ)
	50 2-Chloroethylvinyl ether	63	10.906	10.892	(1.124)	81693	10.0000	10.1(Q)
	51 cis-1,3-Dichloropropene	75	11.115	11.115	(1.146)	25223	1.00000	0.987(aQ)
	52 4-Methyl-2-pentanone	43	11.234	11.219	(1.158)	65648	5.00000	5.35(Q)
	53 Toluene	92	11.516	11.516	(0.884)	39198	1.00000	0.975(aQ)
	54 trans-1,3-Dichloropropene	75	11.695	11.695	(0.897)	22833	1.00000	0.978(aQ)
	55 1,1,2-Trichloroethane	83	11.918	11.903	(0.914)	12286	1.00000	0.979(aQ)
	56 Tetrachloroethene	166	12.141	12.141	(0.932)	19431	1.00000	0.924(aQ)
	57 1,3-Dichloropropane	76	12.111	12.111	(0.929)	22133	1.00000	1.01(Q)
	58 2-Hexanone	43	12.126	12.111	(0.930)	43201	5.00000	5.48(Q)
	59 Dibromochloromethane	129	12.394	12.379	(0.951)	15283	1.00000	1.00(Q)
	60 1,2-Dibromoethane	107	12.543	12.543	(0.962)	15007	1.00000	1.07(Q)
	61 1-Chlorohexane	91	12.959	12.959	(0.994)	23180	1.00000	0.950(aQ)
	62 Chlorobenzene	112	13.078	13.063	(1.003)	43230	1.00000	0.952(aQ)
	63 1,1,1,2-Tetrachloroethane	131	13.138	13.138	(1.008)	14989	1.00000	1.01(Q)
	64 Ethylbenzene	91	13.152	13.153	(1.009)	75747	1.00000	0.976(a)
	65 m-,p-Xylene	106	13.271	13.272	(1.018)	52477	2.00000	2.01(Q)
	66 o-Xylene	106	13.718	13.718	(1.052)	24047	1.00000	0.967(aQ)
M	67 Xylene (total)	106				76524	3.00000	(a)
	68 Styrene	104	13.718	13.718	(1.052)	40828	1.00000	0.991(aQ)
	69 Bromoform	173	13.971	13.971	(1.072)	9716	1.00000	1.00(Q)
	70 Isopropylbenzene	105	14.104	14.105	(1.082)	63613	1.00000	0.992(a)
	71 1,1,2,2-Tetrachloroethane	83	14.387	14.387	(0.921)	17360	1.00000	1.01(Q)
	72 Bromobenzene	156	14.506	14.506	(0.929)	22864	1.00000	1.01(Q)
	73 1,2,3-Trichloropropane	110	14.476	14.462	(0.927)	4429	1.00000	1.11(Q)
	74 n-Propylbenzene	120	14.551	14.551	(0.931)	16128	1.00000	0.979(aQ)
	75 trans-1,4-Dichloro-2-butene	53	14.432	14.432	(0.924)	38017	1.00000	1.06(AQ)
	76 2-Chlorotoluene	126	14.699	14.700	(0.941)	16672	1.00000	0.977(a)
	77 4-Ethyltoluene	105	14.670	14.670	(0.939)	71066	1.00000	1.05(AM)

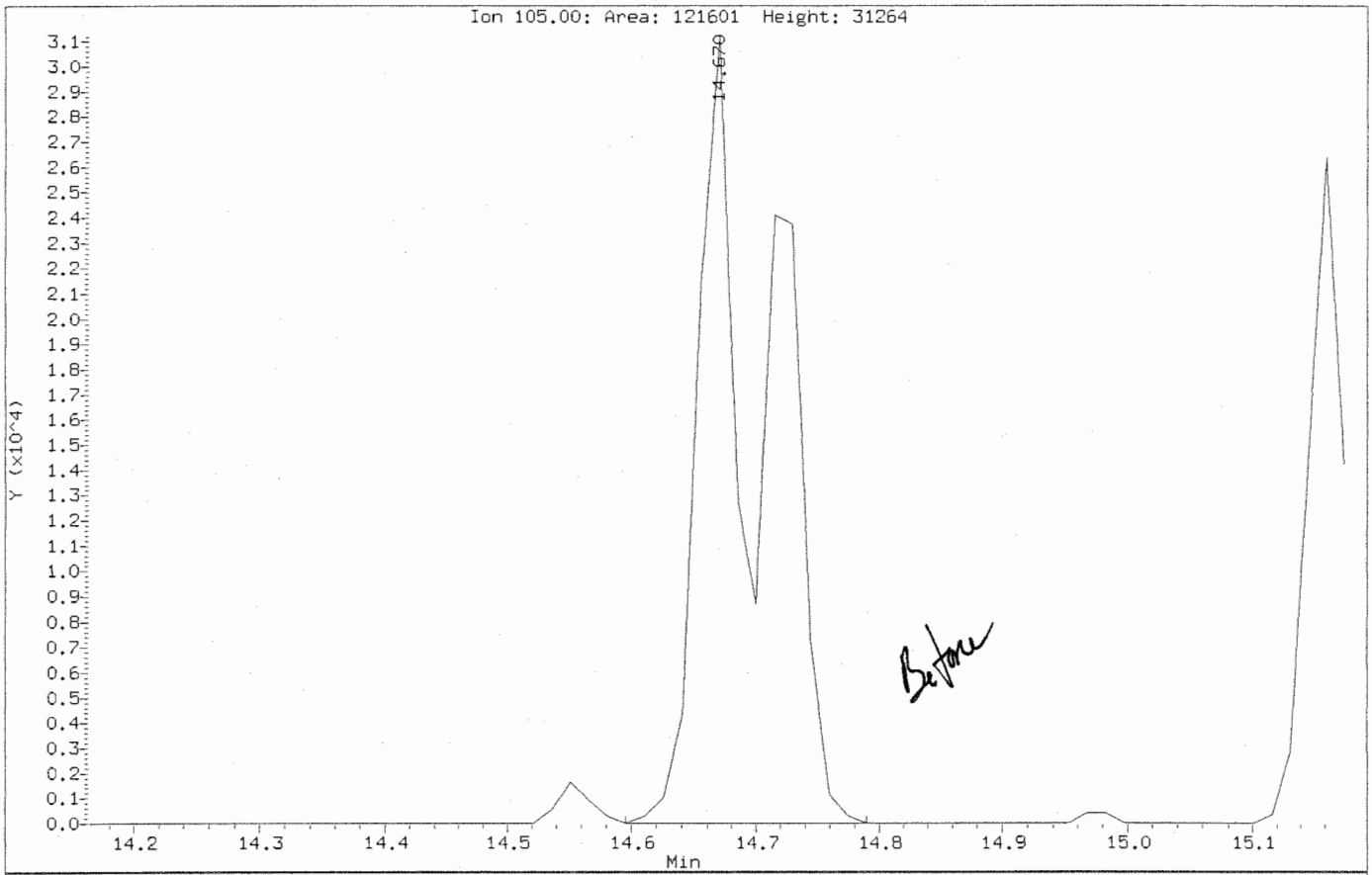
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3,5-Trimethylbenzene	105	14.714	14.714	(0.942)	58575	1.00000	0.994(aQM)
79 4-Chlorotoluene	126	14.803	14.804	(0.948)	17346	1.00000	0.953(a)
80 tert-Butylbenzene	119	15.116	15.116	(0.968)	47567	1.00000	0.977(aQ)
81 1,2,4-Trimethylbenzene	105	15.160	15.161	(0.970)	54912	1.00000	1.00(Q)
82 sec-Butylbenzene	105	15.369	15.354	(0.984)	64362	1.00000	0.968(a)
83 1,3-Dichlorobenzene	146	15.562	15.547	(0.996)	38270	1.00000	0.998(aQ)
84 p-Isopropyltoluene	119	15.503	15.503	(0.992)	50253	1.00000	0.975(aQ)
85 1,4-Dichlorobenzene	146	15.651	15.651	(1.002)	38519	1.00000	0.990(aQ)
86 BenzylChloride	126	14.803	14.804	(0.948)	17346	1.00000	0.953(aQ)
87 n-Butylbenzene	91	16.023	16.008	(1.026)	55409	1.00000	0.967(aQ)
88 1,2-Dichlorobenzene	146	16.142	16.142	(1.033)	34654	1.00000	0.988(aQ)
89 1,2-Dibromo-3-chloropropane	75	17.198	17.183	(1.101)	13274	4.00000	4.23(aQ)
90 1,2,4-Trichlorobenzene	180	18.596	18.596	(1.190)	24399	1.00000	1.01(Q)
91 Hexachlorobutadiene	225	18.879	18.879	(1.209)	11690	1.00000	0.995(aQ)
92 Naphthalene	128	19.102	19.087	(1.223)	35098	1.00000	1.04
93 1,2,3-Trichlorobenzene	180	19.593	19.593	(1.254)	20678	1.00000	0.993(aQ)

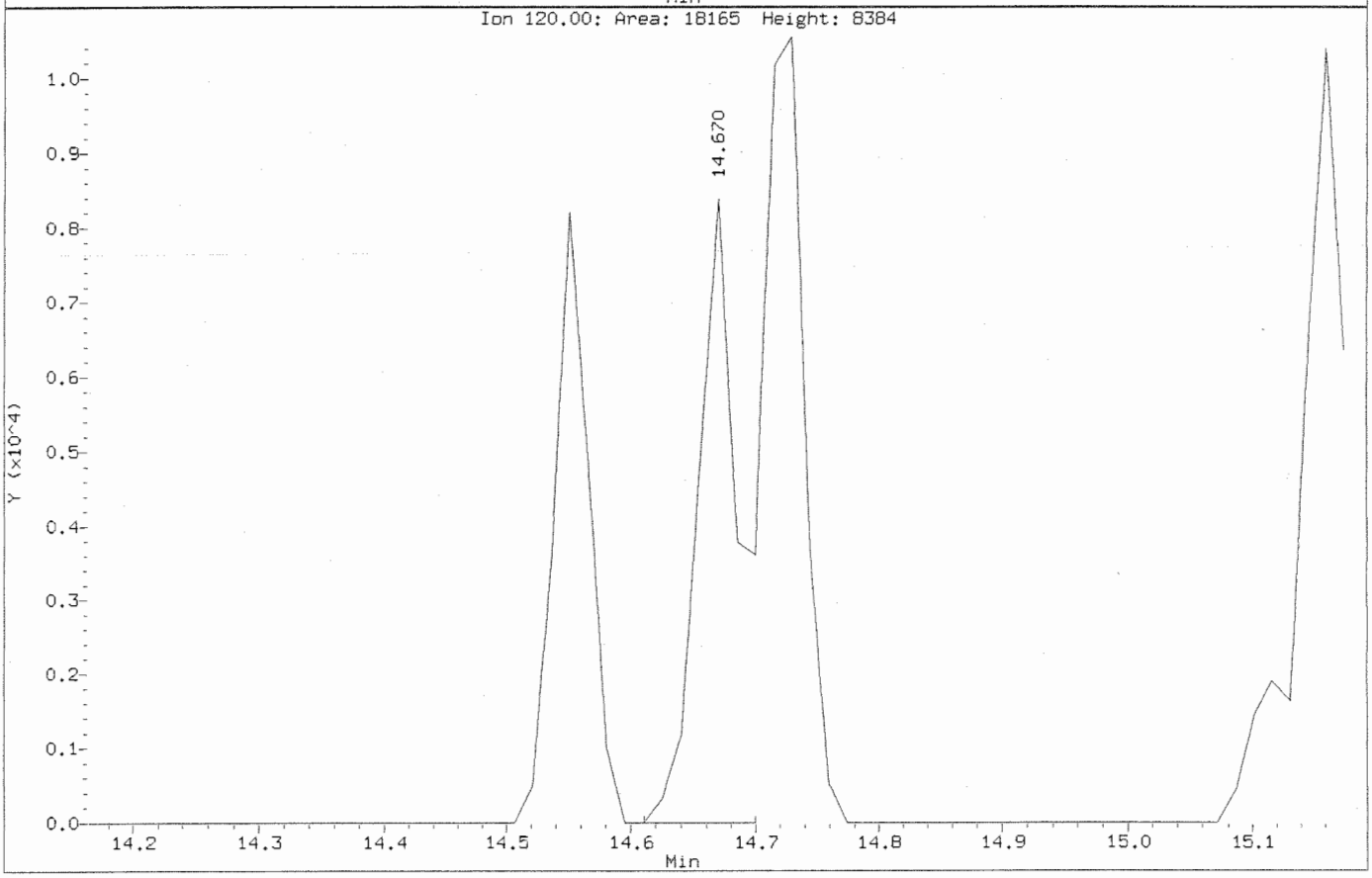
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068657.D
Injection Date: 27-DEC-2006 12:46
Instrument: MSK.i
Client Sample ID: VSTD001

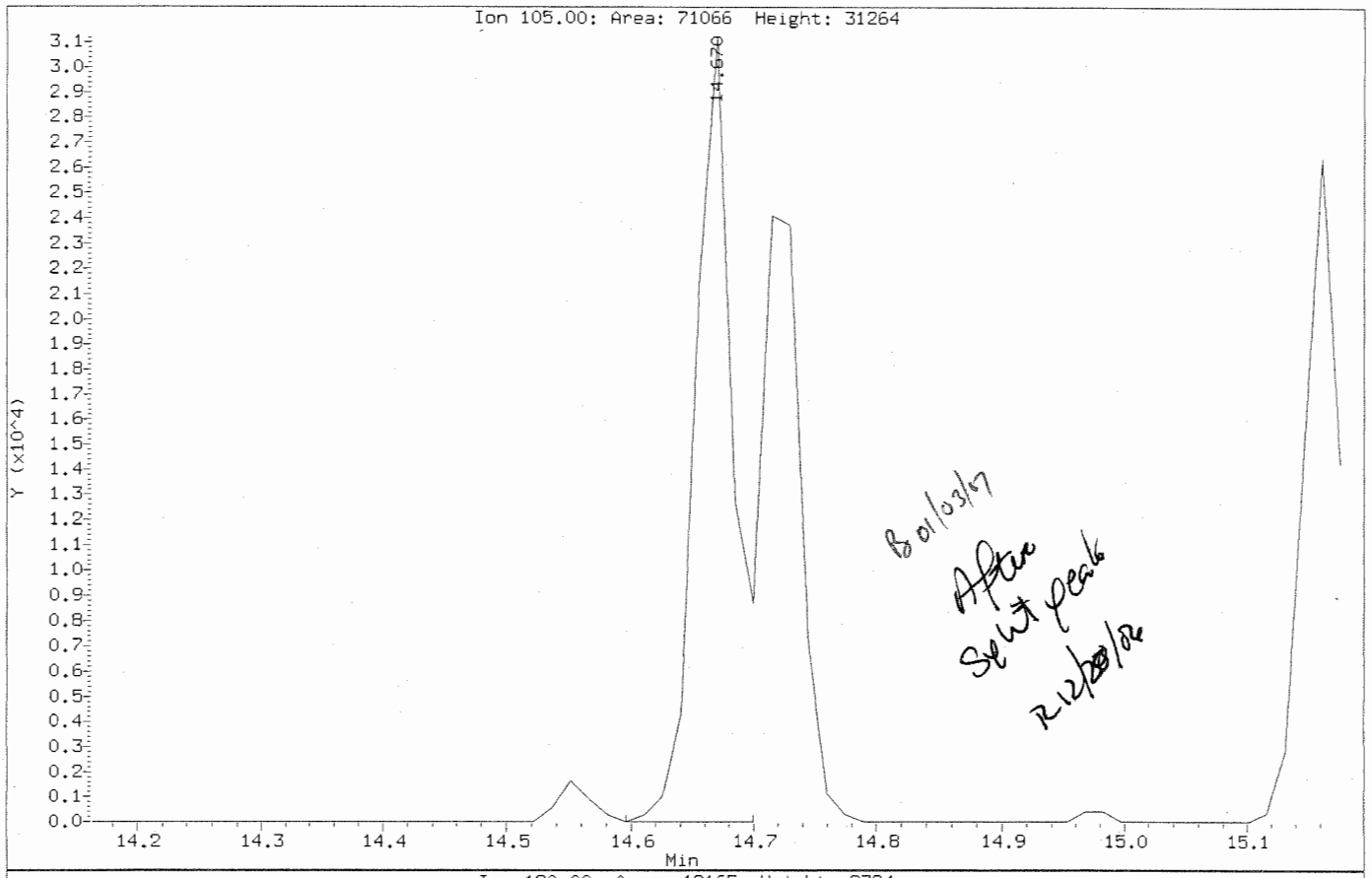
Compound: 4-Ethyltoluene
CAS Number: 622-96-8

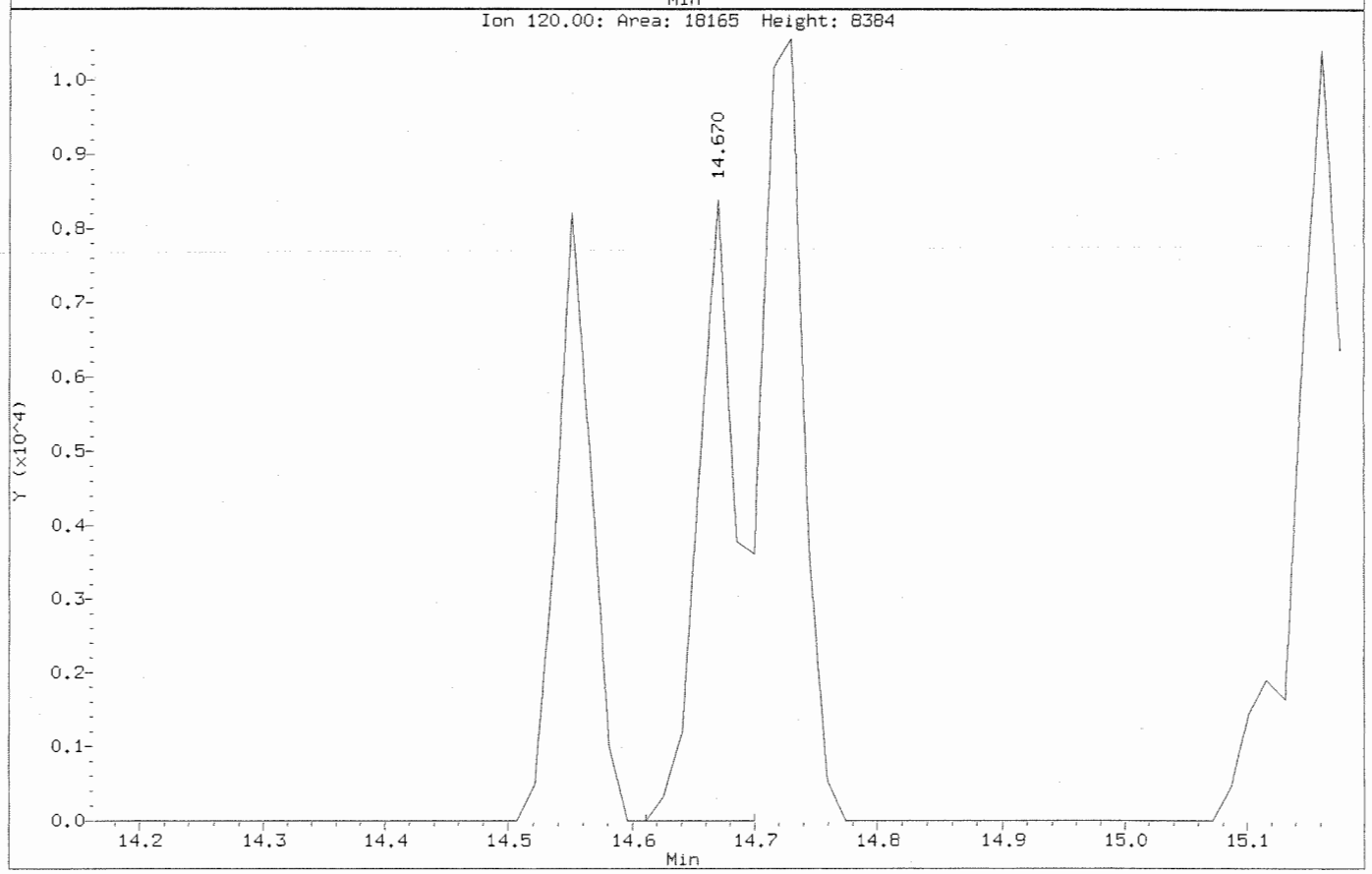




Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068657.D
Injection Date: 27-DEC-2006 12:46
Instrument: MSK.i
Client Sample ID: VSTD001

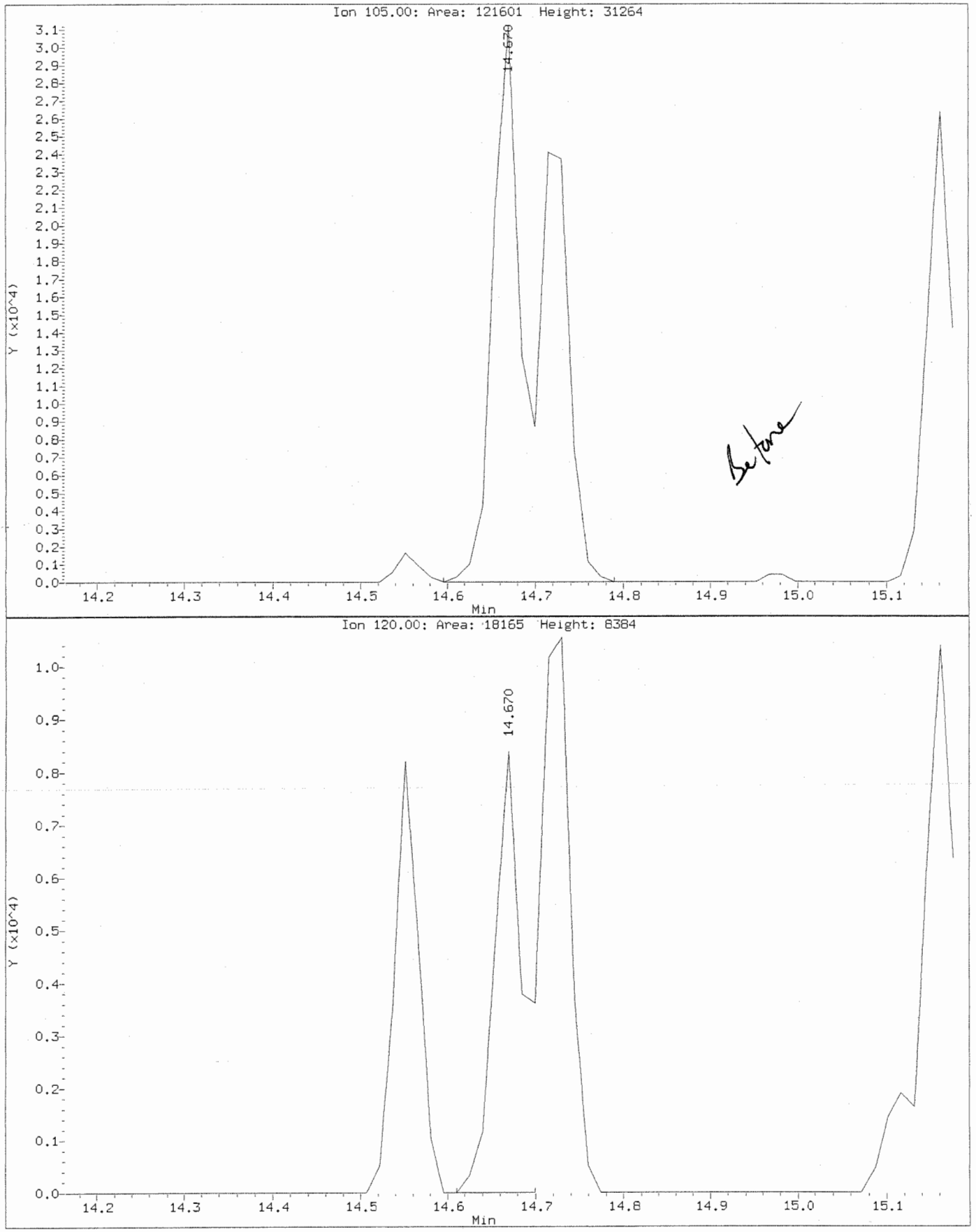
Compound: 4-Ethyltoluene
CAS Number: 622-96-8





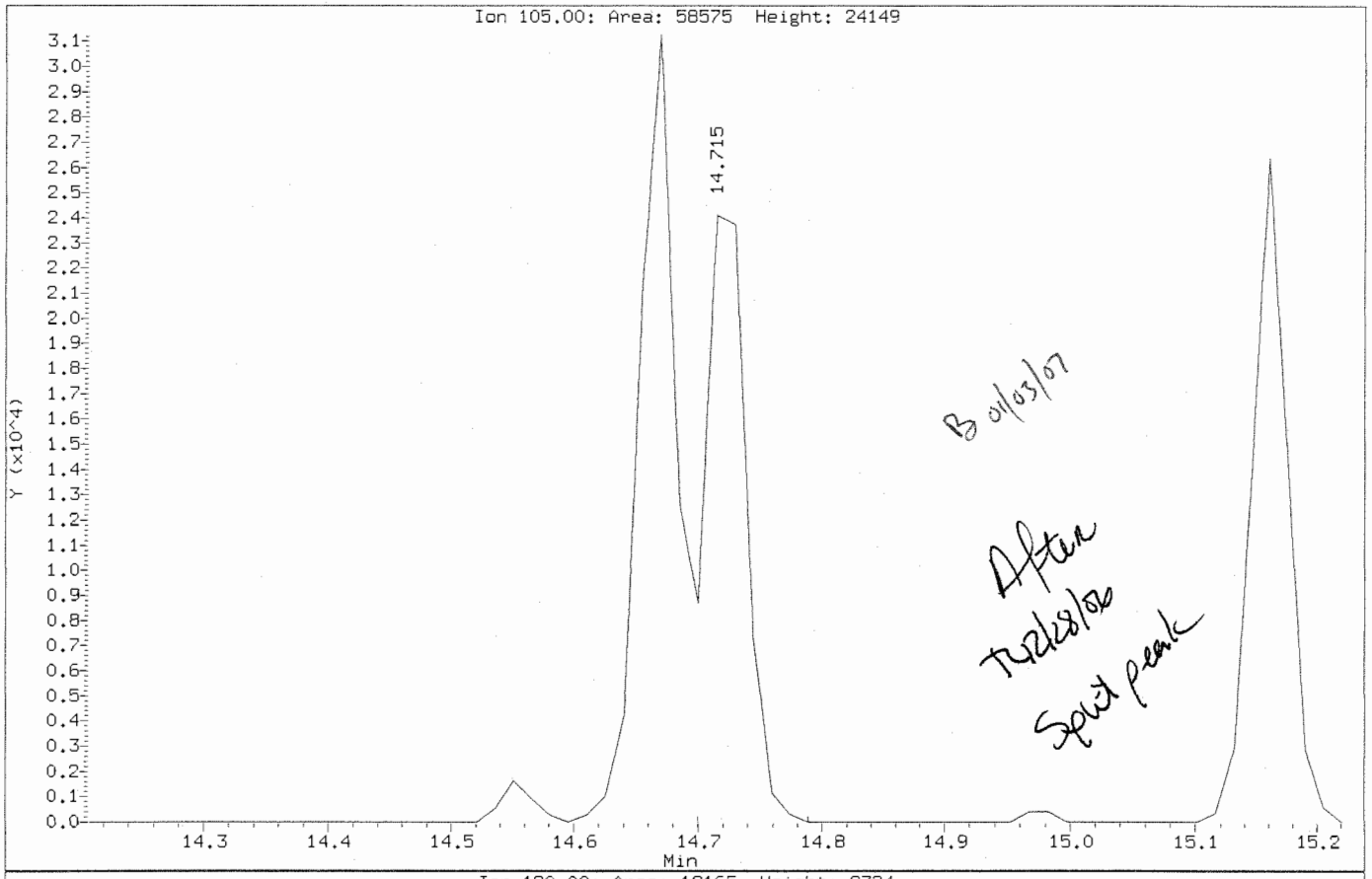
Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068657.D
Injection Date: 27-DEC-2006 12:46
Instrument: MSK.i
Client Sample ID: VSTD001

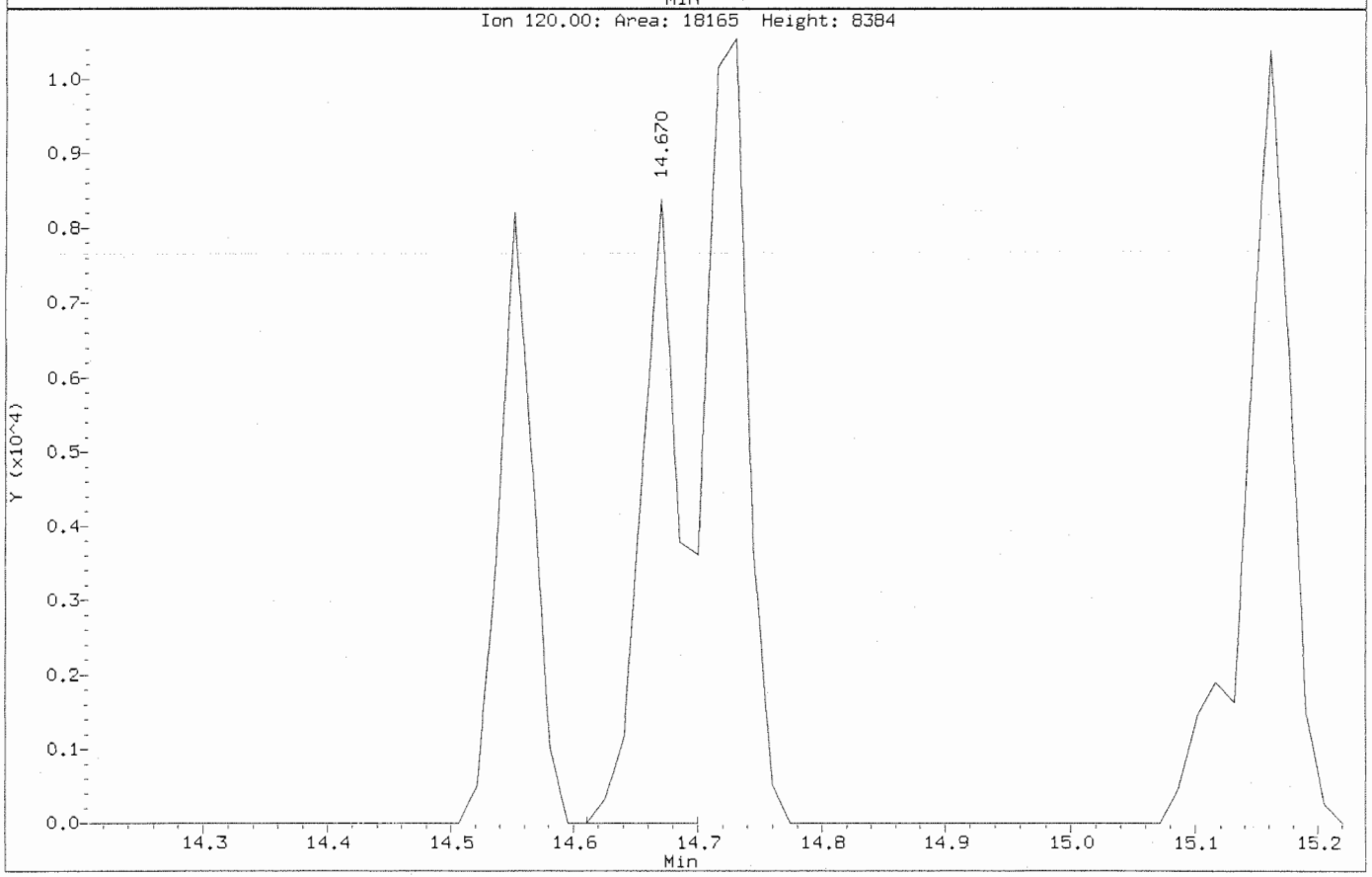
Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068657.D
Injection Date: 27-DEC-2006 12:46
Instrument: MSK.i
Client Sample ID: VSTD001

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068657.D

Date : 27-DEC-2006 12:46

Client ID: VSTD001

Instrument: MSK.i

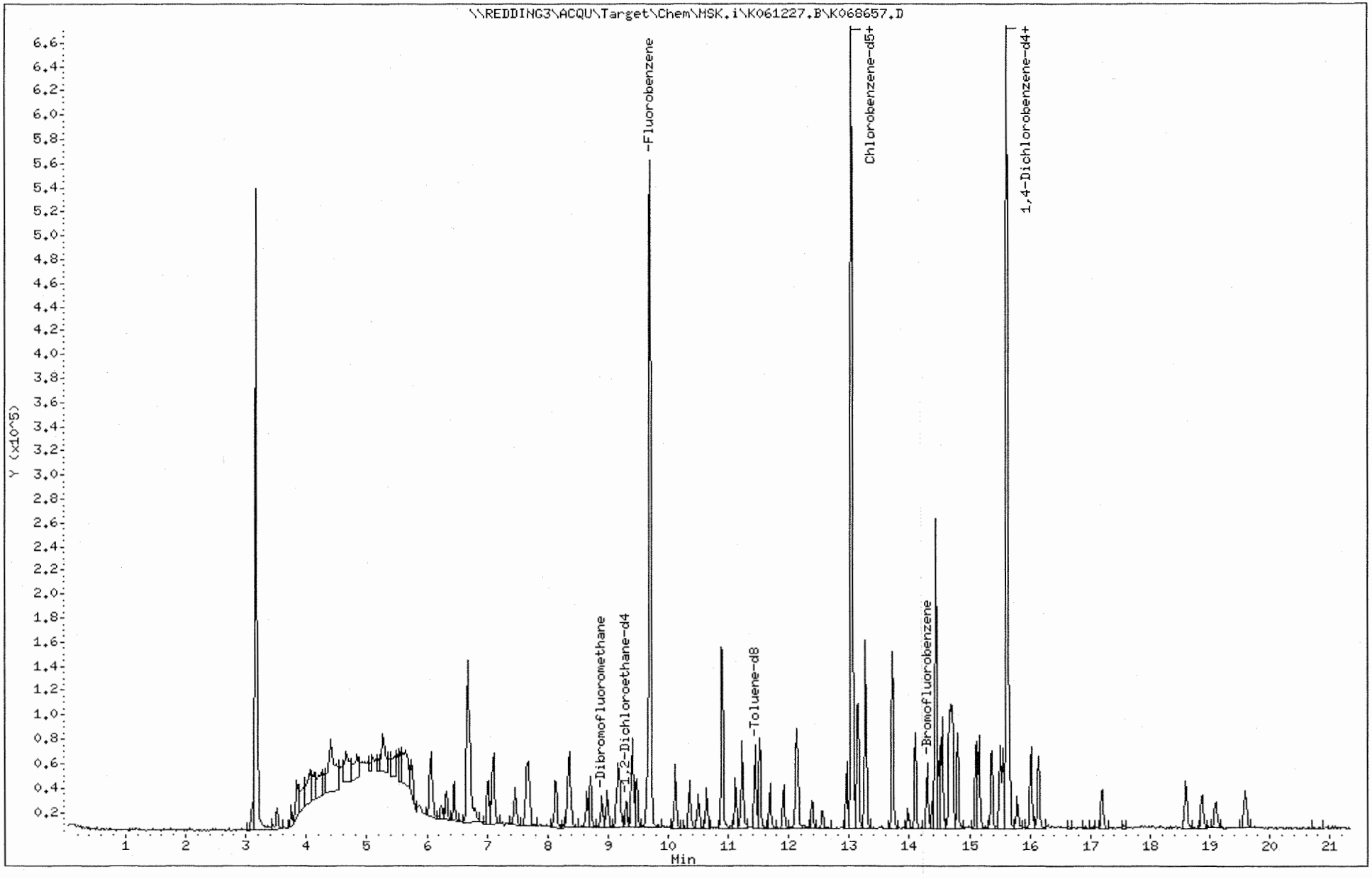
Sample Info: VSTD001;VSTD001

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068658.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 27-DEC-2006 13:13
Operator : X Inst ID: MSK.i
Smp Info : VSTD005;VSTD005
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\8260w10(0.5).m
Meth Date : 28-Dec-2006 09:15 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 13:13 Cal File: K068658.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	9.702	9.687	(1.000)	617406	10.0000	
*	2 Chlorobenzene-d5	117	13.034	13.034	(1.000)	436089	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.622	15.622	(1.000)	241870	10.0000	
$	4 Dibromofluoromethane	113	8.899	8.884	(0.917)	98713	5.00000	5.47(Q)
$	5 1,2-Dichloroethane-d4	65	9.300	9.300	(0.959)	101840	5.00000	4.80
$	6 Toluene-d8	98	11.442	11.442	(0.878)	282009	5.00000	5.30(Q)
$	7 Bromofluorobenzene	174	14.298	14.298	(0.915)	106378	5.00000	5.29(Q)
	8 Dichlorodifluoromethane	85	3.514	3.514	(0.362)	89409	5.00000	4.91(Q)
	9 1,2-Dichlorotetrafluoroethane	85	3.752	3.752	(0.387)	75481	5.00000	4.97(Q)
	10 Chloromethane	50	3.842	3.842	(0.396)	78662	5.00000	4.94(Q)
	11 Vinyl chloride	62	4.050	4.050	(0.417)	73844	5.00000	4.82(Q)
	12 Bromomethane	94	4.660	4.645	(0.480)	47187	5.00000	5.75(Q)
	13 Chloroethane	64	4.838	4.823	(0.499)	40375	5.00000	4.89(Q)
	14 Trichlorofluoromethane	101	5.270	5.269	(0.543)	114141	5.00000	5.02(Q)
	15 1,1,2-Trichlorotrifluoroethane	101	6.058	6.043	(0.624)	85421	5.00000	5.21(Q)
	16 Acrolein	56	5.879	5.864	(0.606)	33017	50.0000	47.4(Q)
	17 1,1-Dichloroethene	96	6.073	6.073	(0.626)	73453	5.00000	4.37(Q)
	18 Acetone	43	6.088	6.087	(0.627)	92998	25.0000	19.2
	19 Bromoethane	108	6.326	6.325	(0.652)	62928	5.00000	5.04(Q)
	20 Iodomethane	142	6.326	6.311	(0.652)	85984	5.00000	5.71(Q)
	21 Carbon disulfide	76	6.459	6.444	(0.666)	299174	5.00000	4.93
	22 Methylene chloride	84	6.727	6.727	(0.693)	94906	5.00000	4.66(Q)
	23 tert-Butanol	59	6.787	6.787	(0.700)	49443	50.0000	44.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
24	Acrylonitrile	53	7.010	7.010	(0.723)	213570	50.0000	47.0(Q)
25	n-Hexane	57	8.125	8.125	(0.838)	70201	5.00000	4.30(Q)
26	trans-1,2-Dichloroethene	96	7.114	7.114	(0.733)	86950	5.00000	4.72(Q)
27	tert-Butylmethylether	73	7.099	7.084	(0.732)	188021	5.00000	4.96
28	1,1-Dichloroethane	63	7.649	7.634	(0.788)	158345	5.00000	4.90(Q)
29	Isopropylether	45	7.679	7.679	(0.792)	322073	5.00000	4.73
30	Vinyl acetate	43	7.649	7.649	(0.788)	307307	5.00000	4.99
31	tert-Butylethylether	59	8.125	8.125	(0.838)	238113	5.00000	5.05(Q)
32	2,2-Dichloropropane	77	8.378	8.363	(0.864)	135455	5.00000	4.68(Q)
33	cis-1,2-Dichloroethene	96	8.348	8.348	(0.860)	97226	5.00000	4.73(Q)
M 34	1,2-Dichloroethene (total)	96				184176	10.0000	(a)
35	2-Butanone	43	8.319	8.319	(0.857)	131370	25.0000	25.4
36	Bromochloromethane	128	8.646	8.646	(0.891)	45919	5.00000	4.78(Q)
37	Chloroform	83	8.705	8.705	(0.897)	179365	5.00000	4.74(Q)
38	1,1,1-Trichloroethane	97	8.988	8.973	(0.926)	132249	5.00000	5.10(Q)
39	Isobutyl alcohol	43	9.137	9.122	(0.942)	48550	125.000	113(Q)
40	1,1-Dichloropropene	75	9.167	9.166	(0.945)	114314	5.00000	4.94(Q)
41	Carbon tetrachloride	119	9.196	9.196	(0.948)	99956	5.00000	4.99(Q)
42	tert-Amylmethylether	73	9.479	9.464	(0.977)	194374	5.00000	5.01
43	Benzene	78	9.405	9.404	(0.969)	322314	5.00000	4.87
44	1,2-Dichloroethane	62	9.390	9.390	(0.968)	123549	5.00000	5.21(Q)
45	Trichloroethene	95	10.118	10.118	(1.043)	94462	5.00000	5.34(Q)
46	1,2-Dichloropropane	63	10.356	10.356	(1.067)	85047	5.00000	5.09(Q)
47	1,4-Dioxane	88	10.475	10.475	(1.080)	14826	125.000	135(Q)
48	Dibromomethane	93	10.505	10.490	(1.083)	59724	5.00000	4.81(Q)
49	Bromodichloromethane	83	10.639	10.639	(1.097)	121672	5.00000	4.86(Q)
50	2-Chloroethylvinyl ether	63	10.892	10.892	(1.123)	422342	50.0000	52.3(Q)
51	cis-1,3-Dichloropropene	75	11.115	11.115	(1.146)	132717	5.00000	5.19(Q)
52	4-Methyl-2-pentanone	43	11.234	11.219	(1.158)	310645	25.0000	25.3(Q)
53	Toluene	92	11.517	11.516	(0.884)	198618	5.00000	4.92(Q)
54	trans-1,3-Dichloropropene	75	11.695	11.695	(0.897)	112995	5.00000	4.82(Q)
55	1,1,2-Trichloroethane	83	11.918	11.903	(0.914)	58232	5.00000	4.62(Q)
56	Tetrachloroethene	166	12.141	12.141	(0.932)	96763	5.00000	4.58(Q)
57	1,3-Dichloropropane	76	12.112	12.111	(0.929)	109025	5.00000	4.94(Q)
58	2-Hexanone	43	12.126	12.111	(0.930)	209179	25.0000	26.4(Q)
59	Dibromochloromethane	129	12.379	12.379	(0.950)	75222	5.00000	4.93(Q)
60	1,2-Dibromoethane	107	12.543	12.543	(0.962)	68720	5.00000	4.90(Q)
61	1-Chlorohexane	91	12.959	12.959	(0.994)	115569	5.00000	4.72(Q)
62	Chlorobenzene	112	13.064	13.063	(1.002)	215338	5.00000	4.72(Q)
63	1,1,1,2-Tetrachloroethane	131	13.138	13.138	(1.008)	75890	5.00000	5.11(Q)
64	Ethylbenzene	91	13.153	13.153	(1.009)	387328	5.00000	4.97
65	m-,p-Xylene	106	13.272	13.272	(1.018)	259121	10.0000	9.86(Q)
66	o-Xylene	106	13.718	13.718	(1.052)	129956	5.00000	5.20(Q)
M 67	Xylene (total)	106				389077	15.0000	(a)
68	Styrene	104	13.718	13.718	(1.052)	220537	5.00000	5.33(Q)
69	Bromoform	173	13.971	13.971	(1.072)	51132	5.00000	5.25(Q)
70	Isopropylbenzene	105	14.105	14.105	(1.082)	337293	5.00000	5.24
71	1,1,2,2-Tetrachloroethane	83	14.387	14.387	(0.921)	87125	5.00000	5.06(Q)
72	Bromobenzene	156	14.506	14.506	(0.929)	109332	5.00000	4.78(Q)
73	1,2,3-Trichloropropane	110	14.462	14.462	(0.926)	19432	5.00000	4.85(Q)
74	n-Propylbenzene	120	14.551	14.551	(0.931)	86396	5.00000	5.21(Q)
75	trans-1,4-Dichloro-2-butene	53	14.432	14.432	(0.924)	189448	5.00000	5.25(AQ)
76	2-Chlorotoluene	126	14.700	14.700	(0.941)	83229	5.00000	4.85
77	4-Ethyltoluene	105	14.670	14.670	(0.939)	386016	5.00000	5.67(AQM)

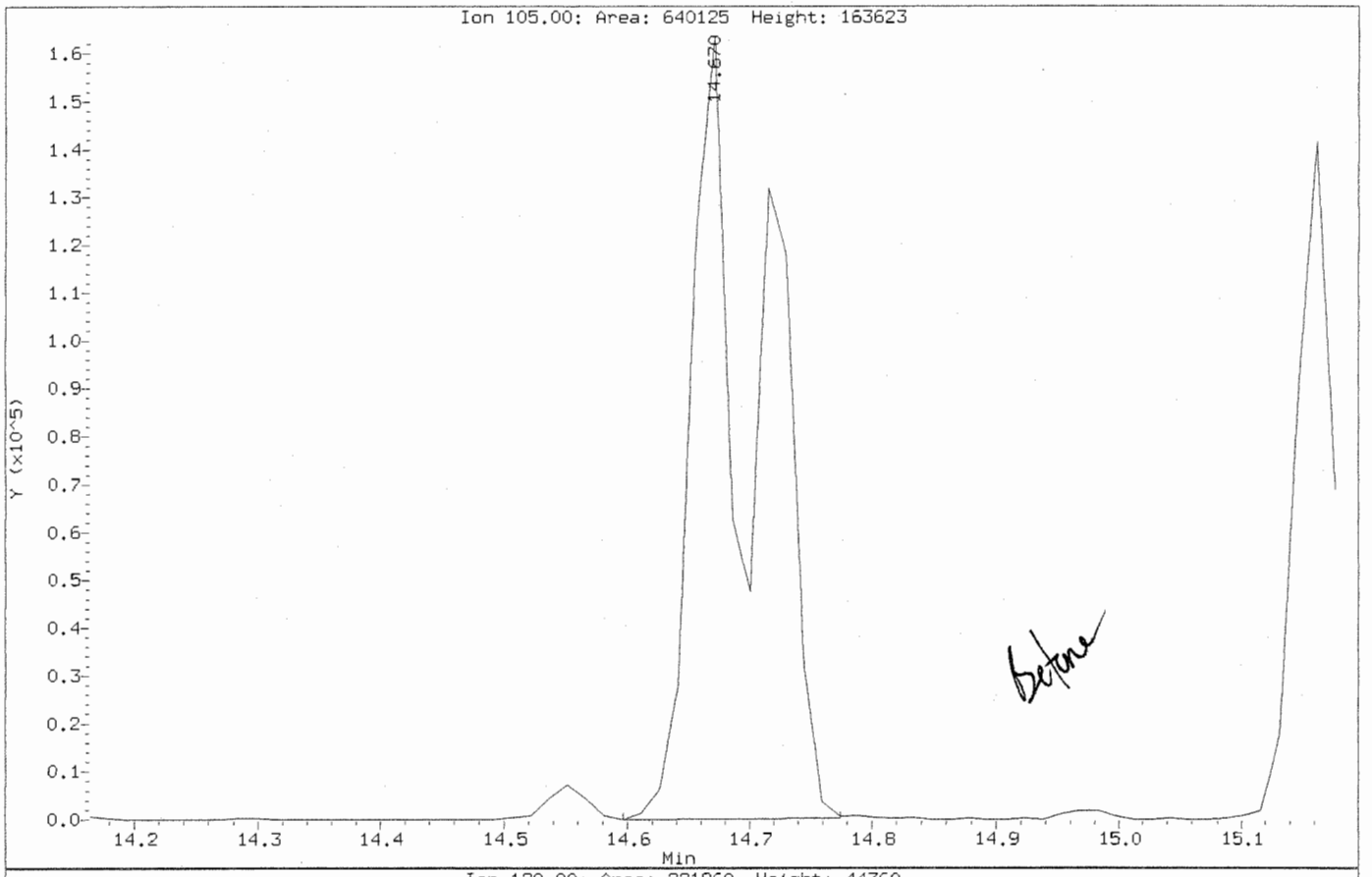
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3,5-Trimethylbenzene	105	14.715	14.714	(0.942)	293329	5.00000	4.95(QM)
79 4-Chlorotoluene	126	14.804	14.804	(0.948)	85843	5.00000	4.69
80 tert-Butylbenzene	119	15.116	15.116	(0.968)	253404	5.00000	5.17(Q)
81 1,2,4-Trimethylbenzene	105	15.161	15.161	(0.970)	297840	5.00000	5.42(Q)
82 sec-Butylbenzene	105	15.369	15.354	(0.984)	333045	5.00000	4.98
83 1,3-Dichlorobenzene	146	15.562	15.547	(0.996)	189918	5.00000	4.92(Q)
84 p-Isopropyltoluene	119	15.503	15.503	(0.992)	282201	5.00000	5.44
85 1,4-Dichlorobenzene	146	15.652	15.651	(1.002)	188941	5.00000	4.83(Q)
86 BenzylChloride	126	14.804	14.804	(0.948)	85843	5.00000	4.69(Q)
87 n-Butylbenzene	91	16.023	16.008	(1.026)	304540	5.00000	5.28(Q)
88 1,2-Dichlorobenzene	146	16.142	16.142	(1.033)	173762	5.00000	4.92(Q)
89 1,2-Dibromo-3-chloropropane	75	17.184	17.183	(1.100)	57557	20.0000	18.2(Q)
90 1,2,4-Trichlorobenzene	180	18.597	18.596	(1.190)	119890	5.00000	4.94(Q)
91 Hexachlorobutadiene	225	18.879	18.879	(1.209)	60039	5.00000	5.08(Q)
92 Naphthalene	128	19.102	19.087	(1.223)	180530	5.00000	5.31
93 1,2,3-Trichlorobenzene	180	19.593	19.593	(1.254)	107147	5.00000	5.12(Q)

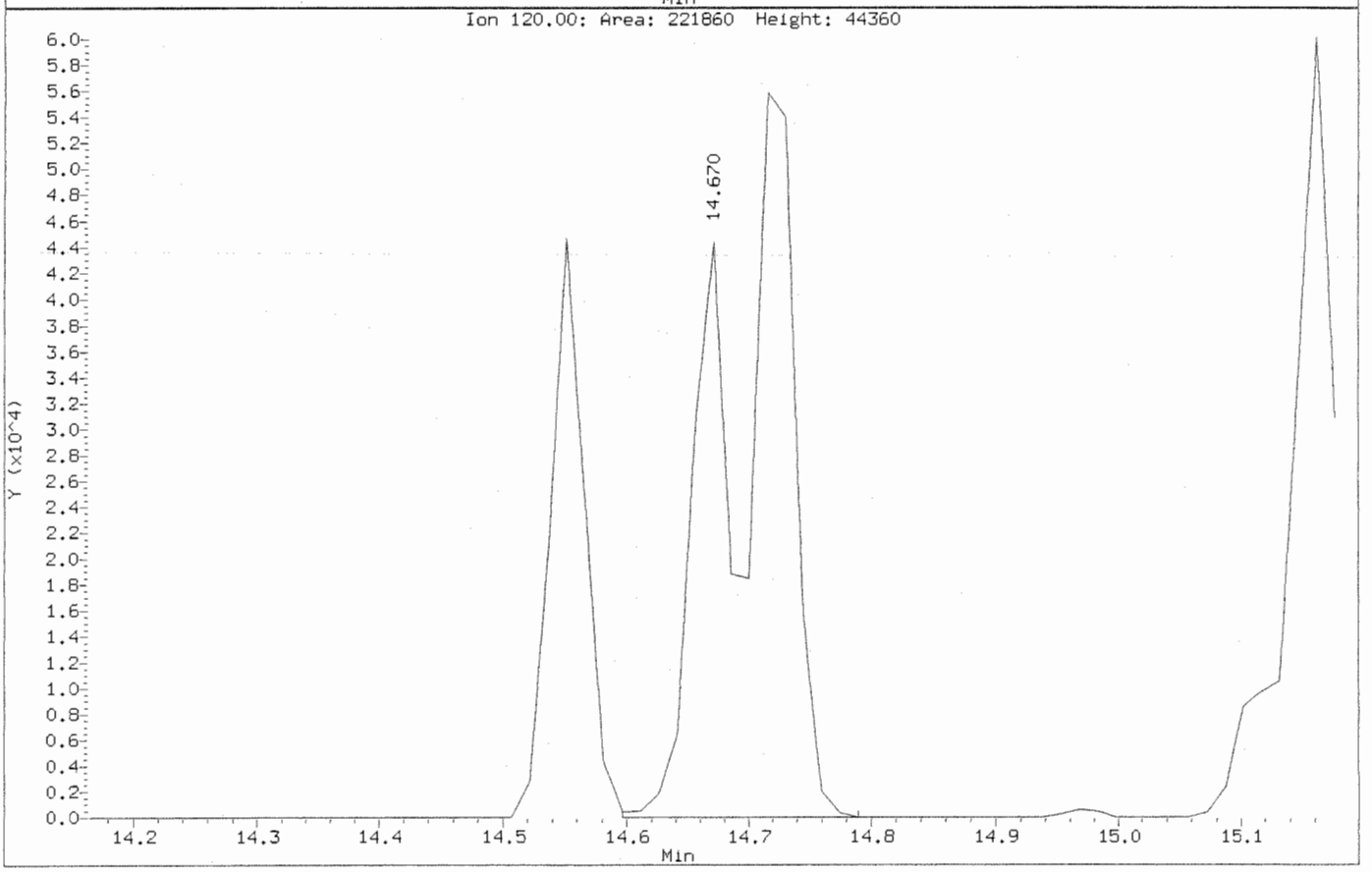
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068658.D
Injection Date: 27-DEC-2006 13:13
Instrument: MSK.i
Client Sample ID: VSTD005

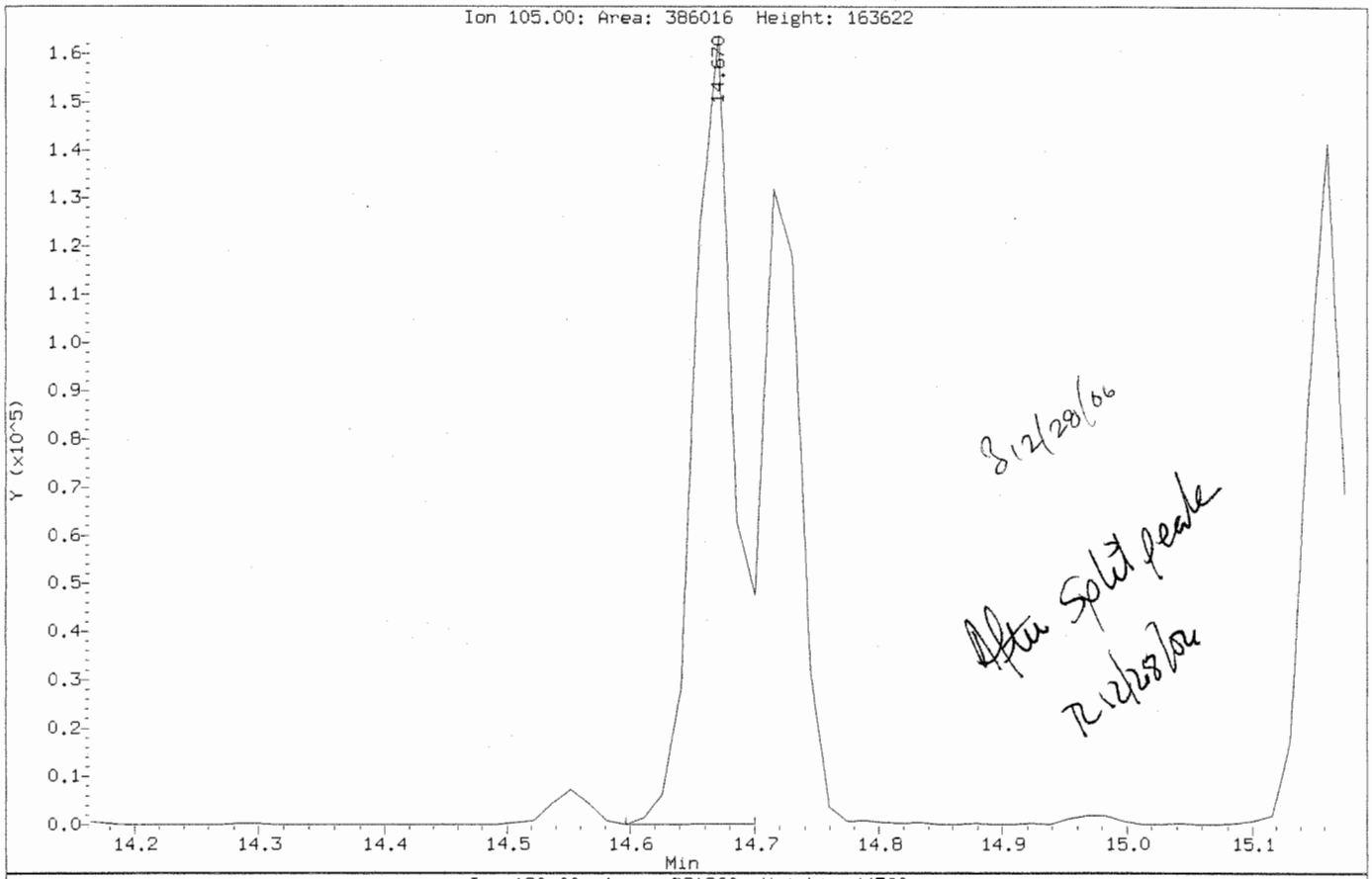
Compound: 4-Ethyltoluene
CAS Number: 622-96-8

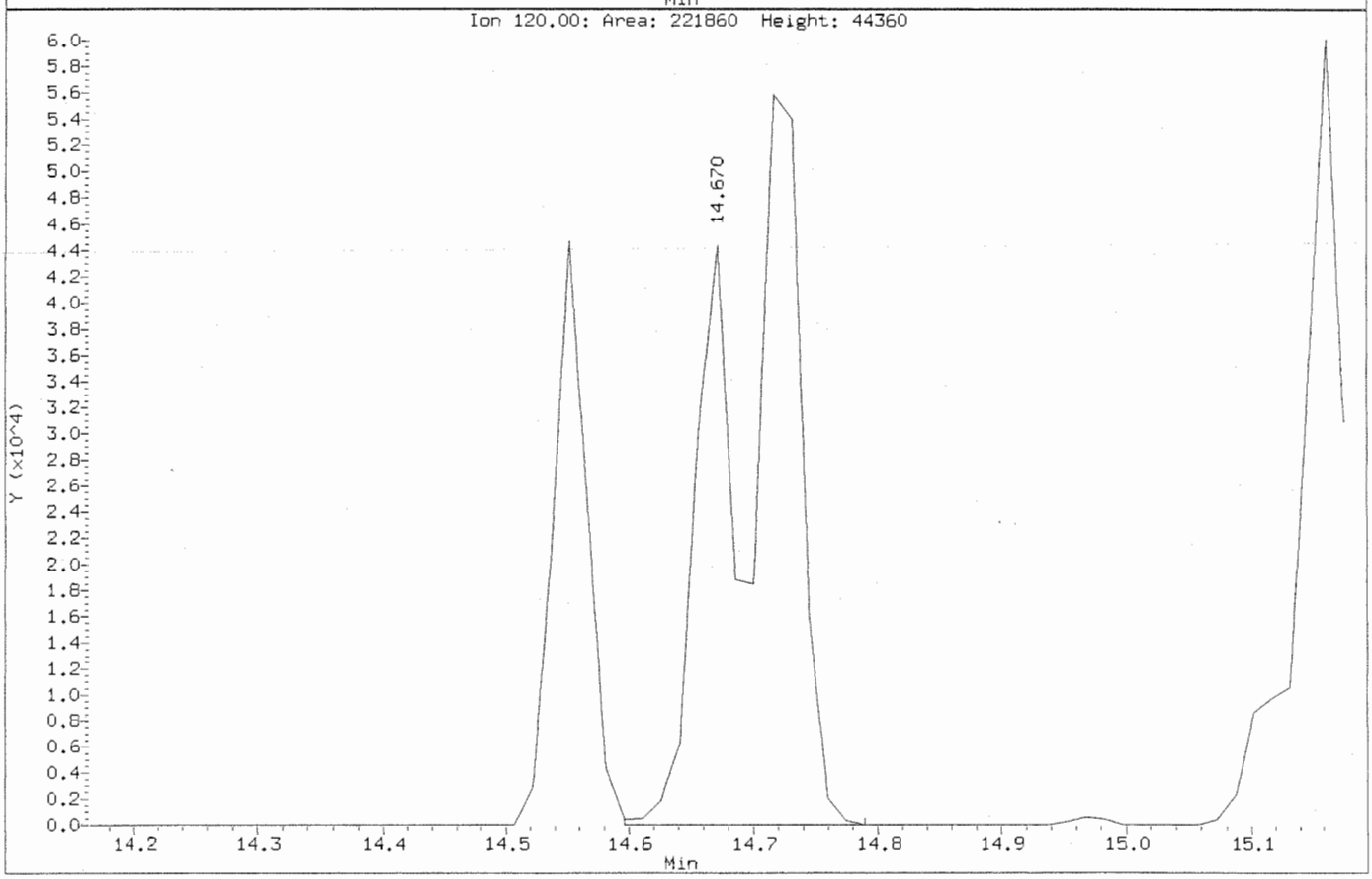




Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068658.D
Injection Date: 27-DEC-2006 13:13
Instrument: MSK.i
Client Sample ID: VSTD005

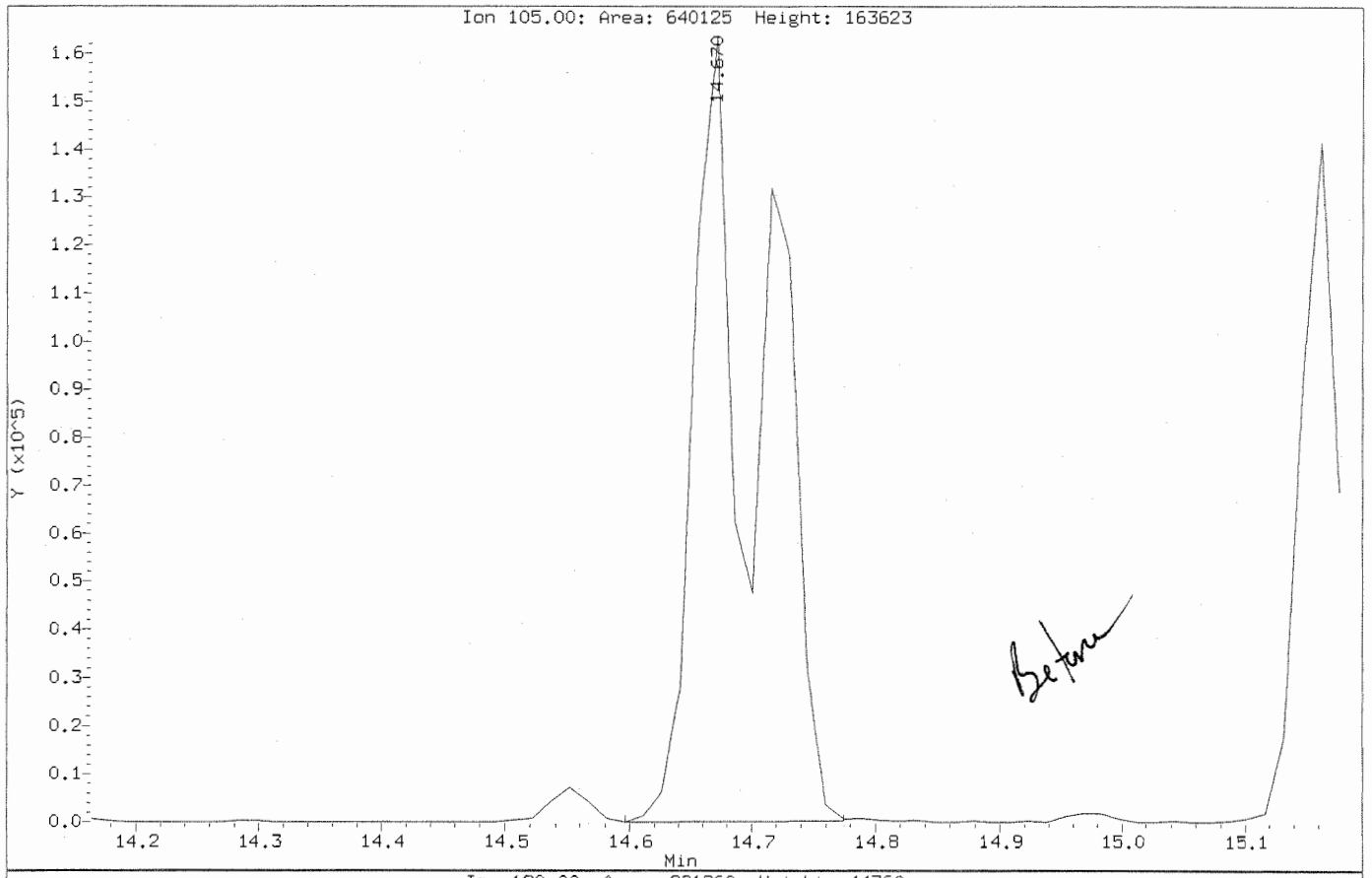
Compound: 4-Ethyltoluene
CAS Number: 622-96-8

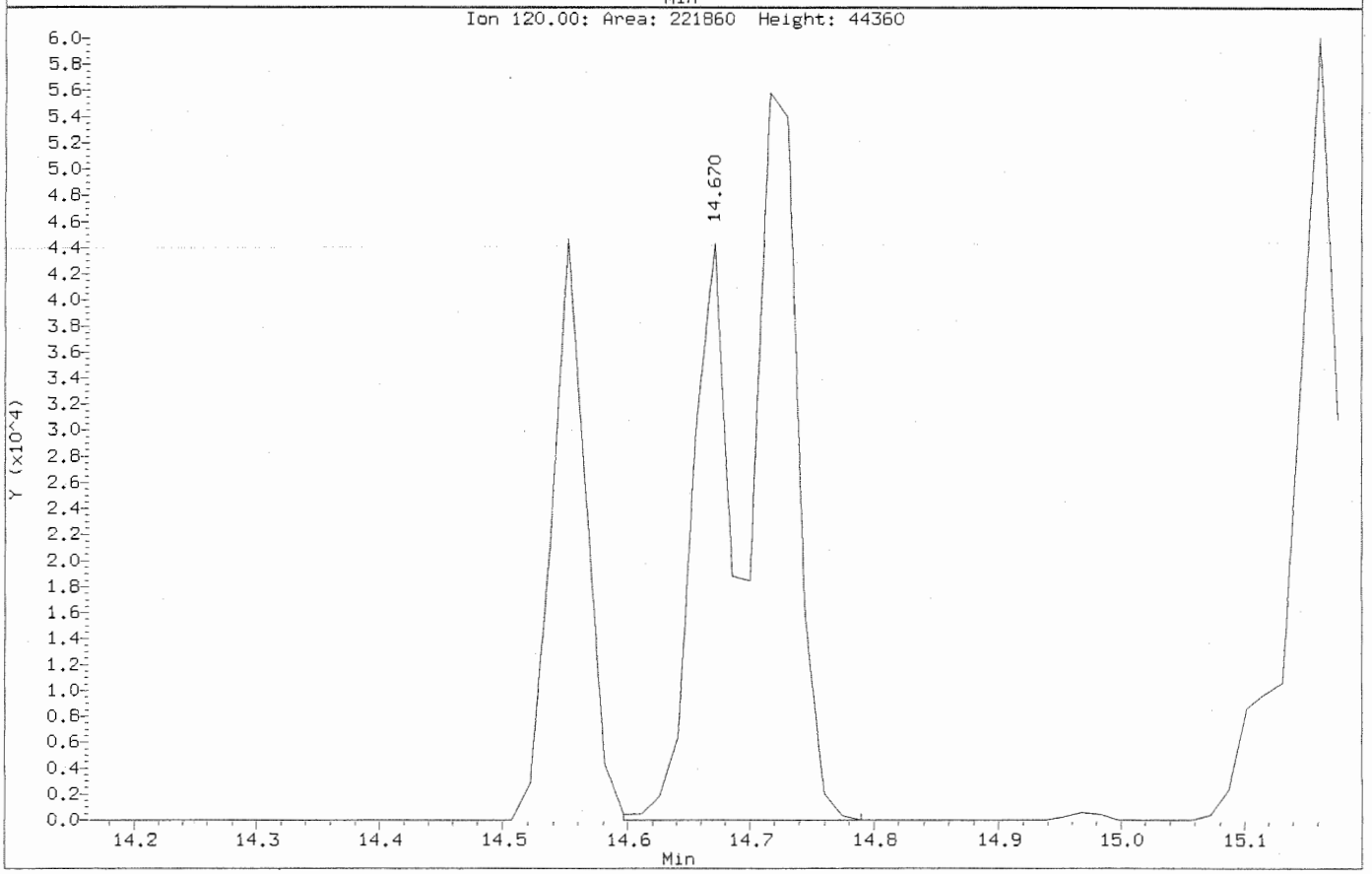




Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068658.D
Injection Date: 27-DEC-2006 13:13
Instrument: MSK.i
Client Sample ID: VSTD005

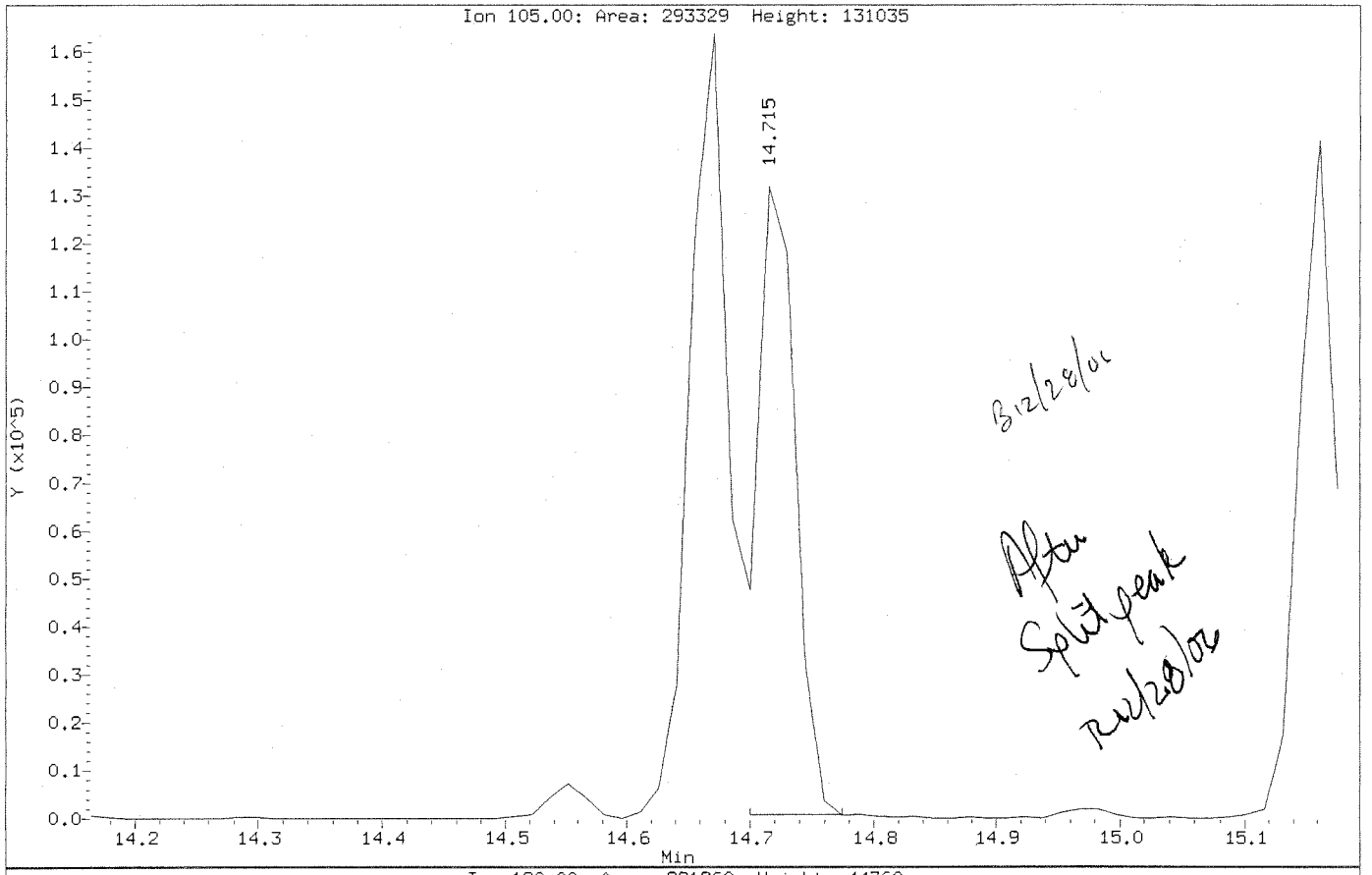
Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8

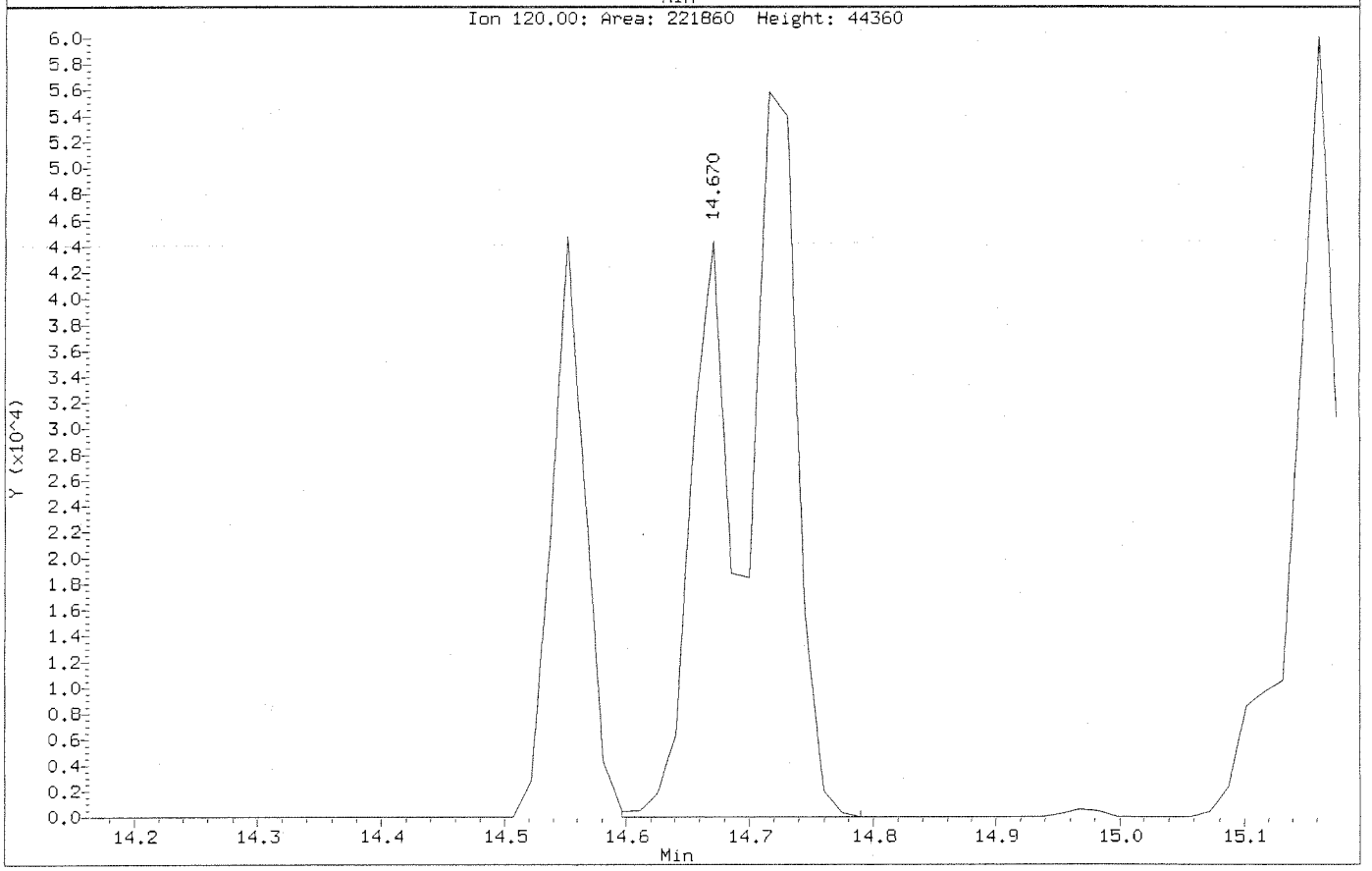




Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068658.D
Injection Date: 27-DEC-2006 13:13
Instrument: MSK.i
Client Sample ID: VSTD005

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068658.D

Date : 27-DEC-2006 13:13

Client ID: VSTD005

Instrument: MSK.i

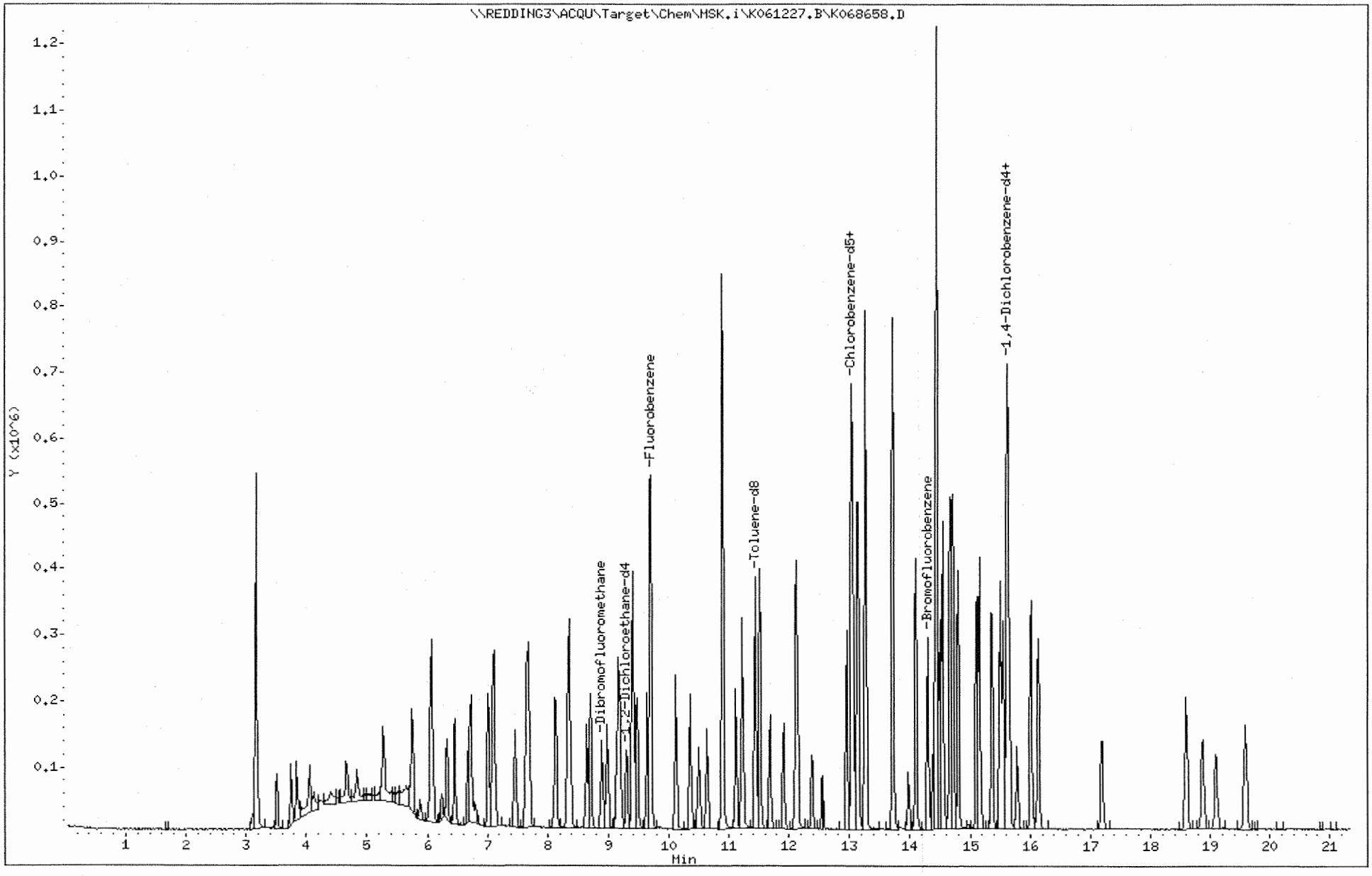
Sample Info: VSTD005;VSTD005

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068659.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 27-DEC-2006 13:40
Operator : X Inst ID: MSK.i
Smp Info : VSTD010;VSTD010
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\8260w10(0.5).m
Meth Date : 28-Dec-2006 09:15 tchilder Quant Type: ISTD
Cal Date : 27-DEC-2006 13:40 Cal File: K068659.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.702	9.687	(1.000)	639274	10.0000	
* 2	Chlorobenzene-d5	117	13.033	13.034	(1.000)	456639	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.621	15.622	(1.000)	249595	10.0000	
$ 4	Dibromofluoromethane	113	8.898	8.884	(0.917)	204837	10.0000	10.5(Q)
$ 5	1,2-Dichloroethane-d4	65	9.300	9.300	(0.959)	209966	10.0000	9.76
$ 6	Toluene-d8	98	11.442	11.442	(0.878)	583893	10.0000	10.2(Q)
$ 7	Bromofluorobenzene	174	14.298	14.298	(0.915)	213303	10.0000	9.99(Q)
8	Dichlorodifluoromethane	85	3.514	3.514	(0.362)	182929	10.0000	9.76(Q)
9	1,2-Dichlorotetrafluoroethane	85	3.752	3.752	(0.387)	149812	10.0000	9.55(Q)
10	Chloromethane	50	3.841	3.842	(0.396)	153784	10.0000	9.38(Q)
11	Vinyl chloride	62	4.049	4.050	(0.417)	144104	10.0000	9.20(Q)
12	Bromomethane	94	4.674	4.645	(0.482)	92762	10.0000	10.4(Q)
13	Chloroethane	64	4.838	4.823	(0.499)	75268	10.0000	8.90(Q)
14	Trichlorofluoromethane	101	5.269	5.269	(0.543)	232091	10.0000	9.85(Q)
15	1,1,2-Trichlorotrifluoroethane	101	6.057	6.043	(0.624)	171198	10.0000	9.94(Q)
16	Acrolein	56	5.879	5.864	(0.606)	71962	100.000	102(Q)
17	1,1-Dichloroethene	96	6.072	6.073	(0.626)	143844	10.0000	8.63(Q)
18	Acetone	43	6.087	6.087	(0.627)	183662	50.0000	41.4
19	Bromoethane	108	6.325	6.325	(0.652)	127133	10.0000	9.81(Q)
20	Iodomethane	142	6.325	6.311	(0.652)	196080	10.0000	12.0(Q)
21	Carbon disulfide	76	6.459	6.444	(0.666)	615734	10.0000	9.84
22	Methylene chloride	84	6.727	6.727	(0.693)	199030	10.0000	9.66(Q)
23	tert-Butanol	59	6.786	6.787	(0.700)	92912	100.000	83.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	24 Acrylonitrile	53	7.009	7.010	(0.723)	439571	100.000	95.3(Q)
	25 n-Hexane	57	8.125	8.125	(0.837)	137269	10.0000	8.52(Q)
	26 trans-1,2-Dichloroethene	96	7.113	7.114	(0.733)	176174	10.0000	9.42(Q)
	27 tert-Butylmethylether	73	7.099	7.084	(0.732)	380890	10.0000	9.72
	28 1,1-Dichloroethane	63	7.649	7.634	(0.788)	325625	10.0000	9.80(Q)
	29 Isopropylether	45	7.679	7.679	(0.792)	642285	10.0000	9.28
	30 Vinyl acetate	43	7.649	7.649	(0.788)	614638	10.0000	9.64
	31 tert-Butylethylether	59	8.125	8.125	(0.837)	485173	10.0000	9.90(Q)
	32 2,2-Dichloropropane	77	8.378	8.363	(0.864)	263084	10.0000	8.97(Q)
	33 cis-1,2-Dichloroethene	96	8.348	8.348	(0.860)	192653	10.0000	9.22(Q)
M	34 1,2-Dichloroethene (total)	96				368827	20.0000	(a)
	35 2-Butanone	43	8.318	8.319	(0.857)	271516	50.0000	50.4
	36 Bromochloromethane	128	8.645	8.646	(0.891)	93870	10.0000	9.58(Q)
	37 Chloroform	83	8.705	8.705	(0.897)	365053	10.0000	9.48(Q)
	38 1,1,1-Trichloroethane	97	8.988	8.973	(0.926)	266109	10.0000	9.85(Q)
	39 Isobutyl alcohol	43	9.121	9.122	(0.940)	96090	250.000	223(Q)
	40 1,1-Dichloropropene	75	9.166	9.166	(0.945)	239071	10.0000	10.0(Q)
	41 Carbon tetrachloride	119	9.196	9.196	(0.948)	204485	10.0000	9.87(Q)
	42 tert-Amylmethylether	73	9.478	9.464	(0.977)	381013	10.0000	9.47
	43 Benzene	78	9.404	9.404	(0.969)	644060	10.0000	9.48
	44 1,2-Dichloroethane	62	9.389	9.390	(0.968)	246209	10.0000	9.89(Q)
	45 Trichloroethene	95	10.118	10.118	(1.043)	185631	10.0000	9.70(Q)
	46 1,2-Dichloropropane	63	10.356	10.356	(1.067)	170192	10.0000	9.78(Q)
	47 1,4-Dioxane	88	10.475	10.475	(1.080)	28635	250.000	245(Q)
	48 Dibromomethane	93	10.490	10.490	(1.081)	123973	10.0000	9.77(Q)
	49 Bromodichloromethane	83	10.639	10.639	(1.097)	250864	10.0000	9.78(Q)
	50 2-Chloroethylvinyl ether	63	10.891	10.892	(1.123)	869531	100.000	102(Q)
	51 cis-1,3-Dichloropropene	75	11.115	11.115	(1.146)	270761	10.0000	10.1(Q)
	52 4-Methyl-2-pentanone	43	11.234	11.219	(1.158)	625841	50.0000	49.0(Q)
	53 Toluene	92	11.516	11.516	(0.884)	403893	10.0000	9.61(Q)
	54 trans-1,3-Dichloropropene	75	11.695	11.695	(0.897)	235332	10.0000	9.70(Q)
	55 1,1,2-Trichloroethane	83	11.918	11.903	(0.914)	120377	10.0000	9.36(Q)
	56 Tetrachloroethene	166	12.141	12.141	(0.932)	194051	10.0000	9.03(Q)
	57 1,3-Dichloropropane	76	12.111	12.111	(0.929)	224319	10.0000	9.74(Q)
	58 2-Hexanone	43	12.126	12.111	(0.930)	439993	50.0000	52.1(Q)
	59 Dibromochloromethane	129	12.379	12.379	(0.950)	157811	10.0000	9.92(Q)
	60 1,2-Dibromoethane	107	12.542	12.543	(0.962)	140782	10.0000	9.65(Q)
	61 1-Chlorohexane	91	12.959	12.959	(0.994)	237314	10.0000	9.43(Q)
	62 Chlorobenzene	112	13.063	13.063	(1.002)	440645	10.0000	9.40(Q)
	63 1,1,1,2-Tetrachloroethane	131	13.137	13.138	(1.008)	152632	10.0000	9.75(Q)
	64 Ethylbenzene	91	13.152	13.153	(1.009)	789614	10.0000	9.70
	65 m-,p-Xylene	106	13.271	13.272	(1.018)	533732	20.0000	19.5(Q)
	66 o-Xylene	106	13.717	13.718	(1.052)	262477	10.0000	9.90(Q)
M	67 Xylene (total)	106				796209	30.0000	(a)
	68 Styrene	104	13.717	13.718	(1.052)	453290	10.0000	10.2(Q)
	69 Bromoform	173	13.970	13.971	(1.072)	104796	10.0000	10.1(Q)
	70 Isopropylbenzene	105	14.104	14.105	(1.082)	688033	10.0000	10.0
	71 1,1,2,2-Tetrachloroethane	83	14.387	14.387	(0.921)	179139	10.0000	10.0(Q)
	72 Bromobenzene	156	14.506	14.506	(0.929)	221664	10.0000	9.54(Q)
	73 1,2,3-Trichloropropane	110	14.461	14.462	(0.926)	39283	10.0000	9.60(Q)
	74 n-Propylbenzene	120	14.550	14.551	(0.931)	173551	10.0000	10.0(Q)
	75 trans-1,4-Dichloro-2-butene	53	14.431	14.432	(0.924)	394079	10.0000	10.4(AQ)
	76 2-Chlorotoluene	126	14.699	14.700	(0.941)	167592	10.0000	9.55
	77 4-Ethyltoluene	105	14.669	14.670	(0.939)	786745	10.0000	10.7(AM)

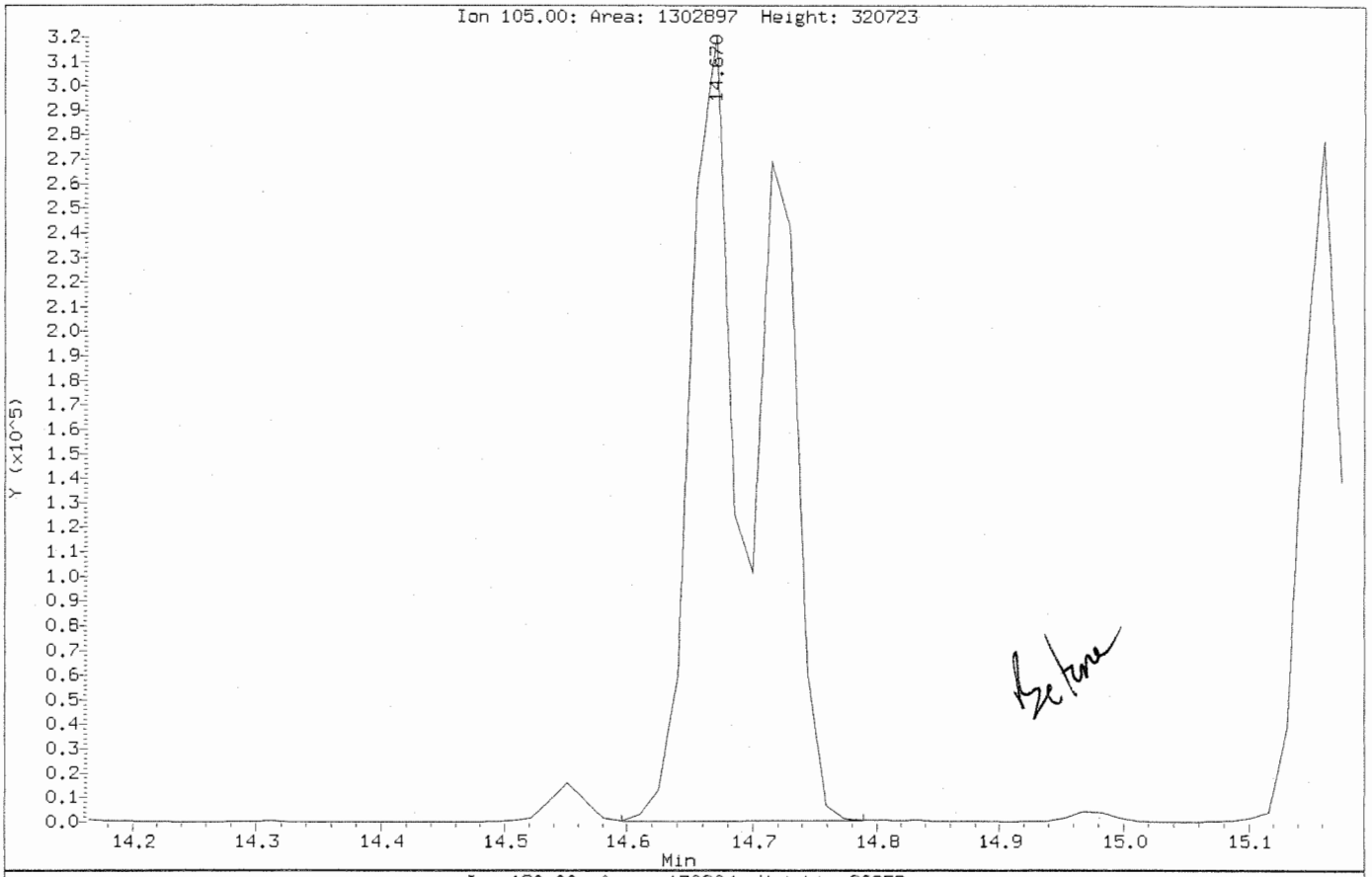
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
78	1,3,5-Trimethylbenzene	105	14.714	14.714	(0.942)	603424	10.0000	9.90(M)
79	4-Chlorotoluene	126	14.803	14.804	(0.948)	172052	10.0000	9.30
80	tert-Butylbenzene	119	15.116	15.116	(0.968)	527062	10.0000	10.3(Q)
81	1,2,4-Trimethylbenzene	105	15.160	15.161	(0.970)	602735	10.0000	10.3(Q)
82	sec-Butylbenzene	105	15.368	15.354	(0.984)	693408	10.0000	10.1
83	1,3-Dichlorobenzene	146	15.547	15.547	(0.995)	383444	10.0000	9.68(Q)
84	p-Isopropyltoluene	119	15.502	15.503	(0.992)	587033	10.0000	10.6
85	1,4-Dichlorobenzene	146	15.651	15.651	(1.002)	385172	10.0000	9.65(Q)
86	BenzylChloride	126	14.803	14.804	(0.948)	172052	10.0000	9.30(Q)
87	n-Butylbenzene	91	16.023	16.008	(1.026)	639249	10.0000	10.5(Q)
88	1,2-Dichlorobenzene	146	16.142	16.142	(1.033)	350582	10.0000	9.67(Q)
89	1,2-Dibromo-3-chloropropane	75	17.183	17.183	(1.100)	112475	40.0000	35.6(Q)
90	1,2,4-Trichlorobenzene	180	18.596	18.596	(1.190)	245584	10.0000	9.85(Q)
91	Hexachlorobutadiene	225	18.879	18.879	(1.209)	123457	10.0000	10.1(Q)
92	Naphthalene	128	19.102	19.087	(1.223)	363219	10.0000	10.1
93	1,2,3-Trichlorobenzene	180	19.593	19.593	(1.254)	211623	10.0000	9.72(Q)

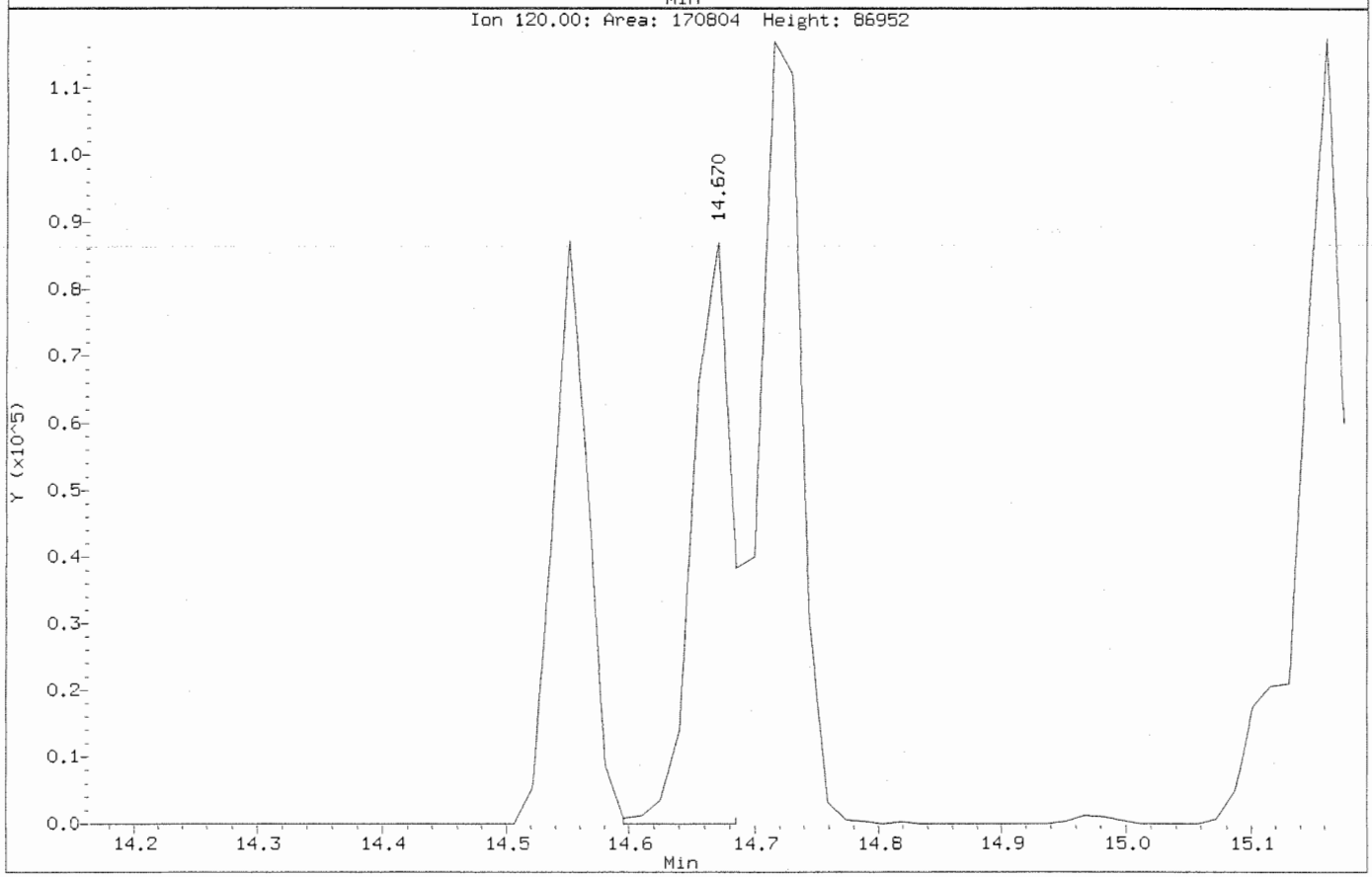
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068659.D
Injection Date: 27-DEC-2006 13:40
Instrument: MSK.i
Client Sample ID: VSTD010

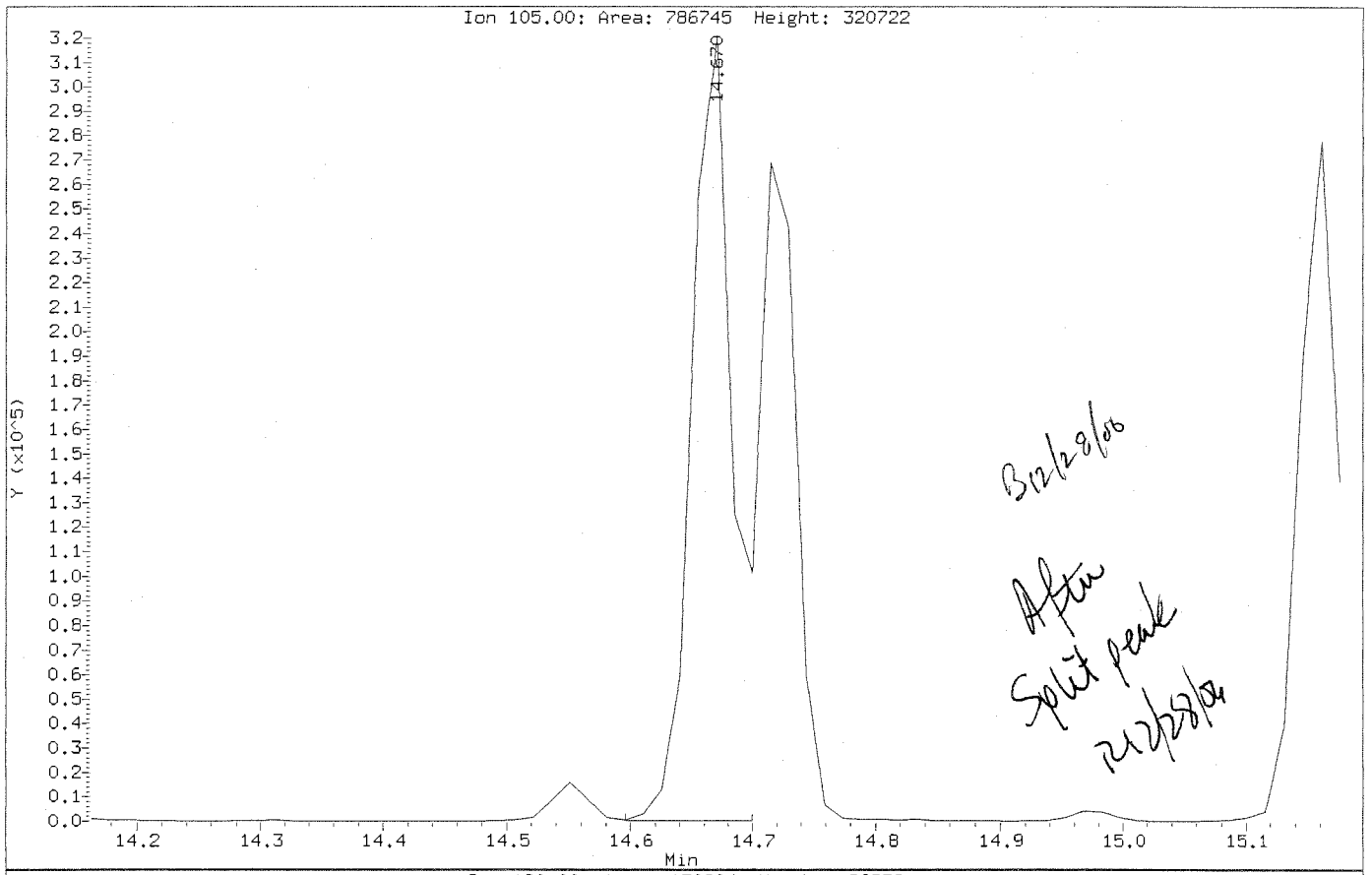
Compound: 4-Ethyltoluene
CAS Number: 622-96-8

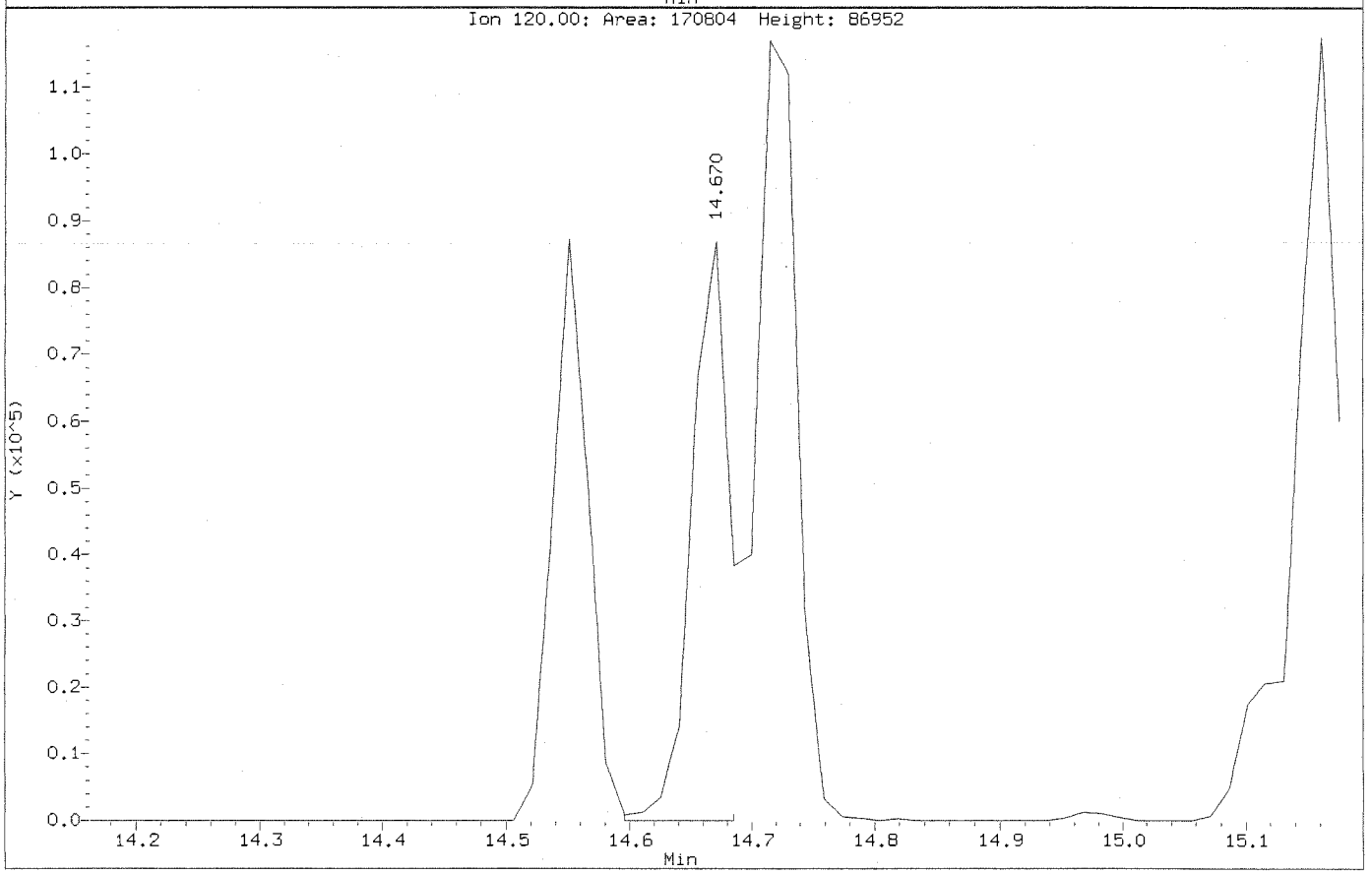




Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068659.D
Injection Date: 27-DEC-2006 13:40
Instrument: MSK.i
Client Sample ID: VSTD010

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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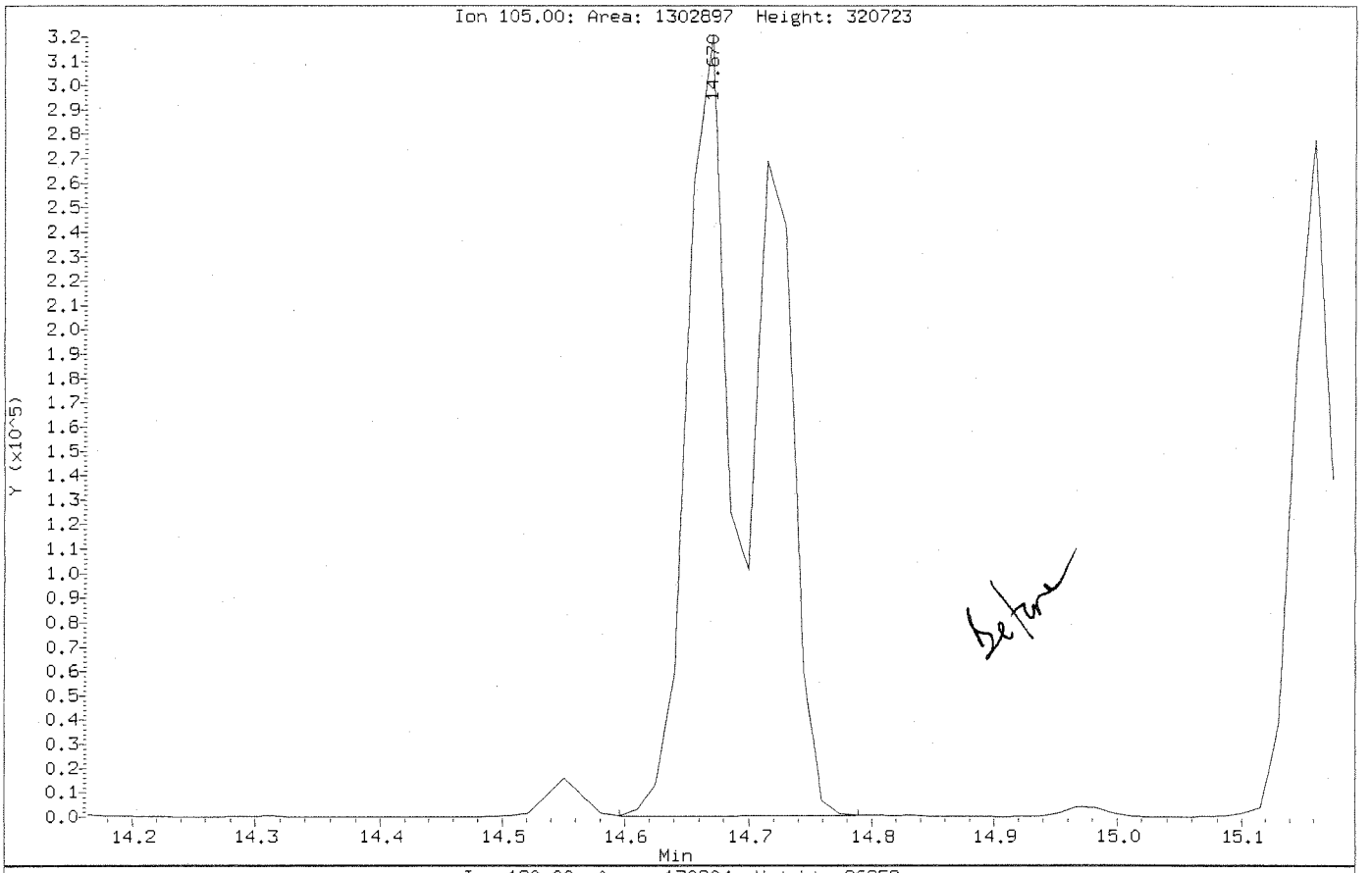
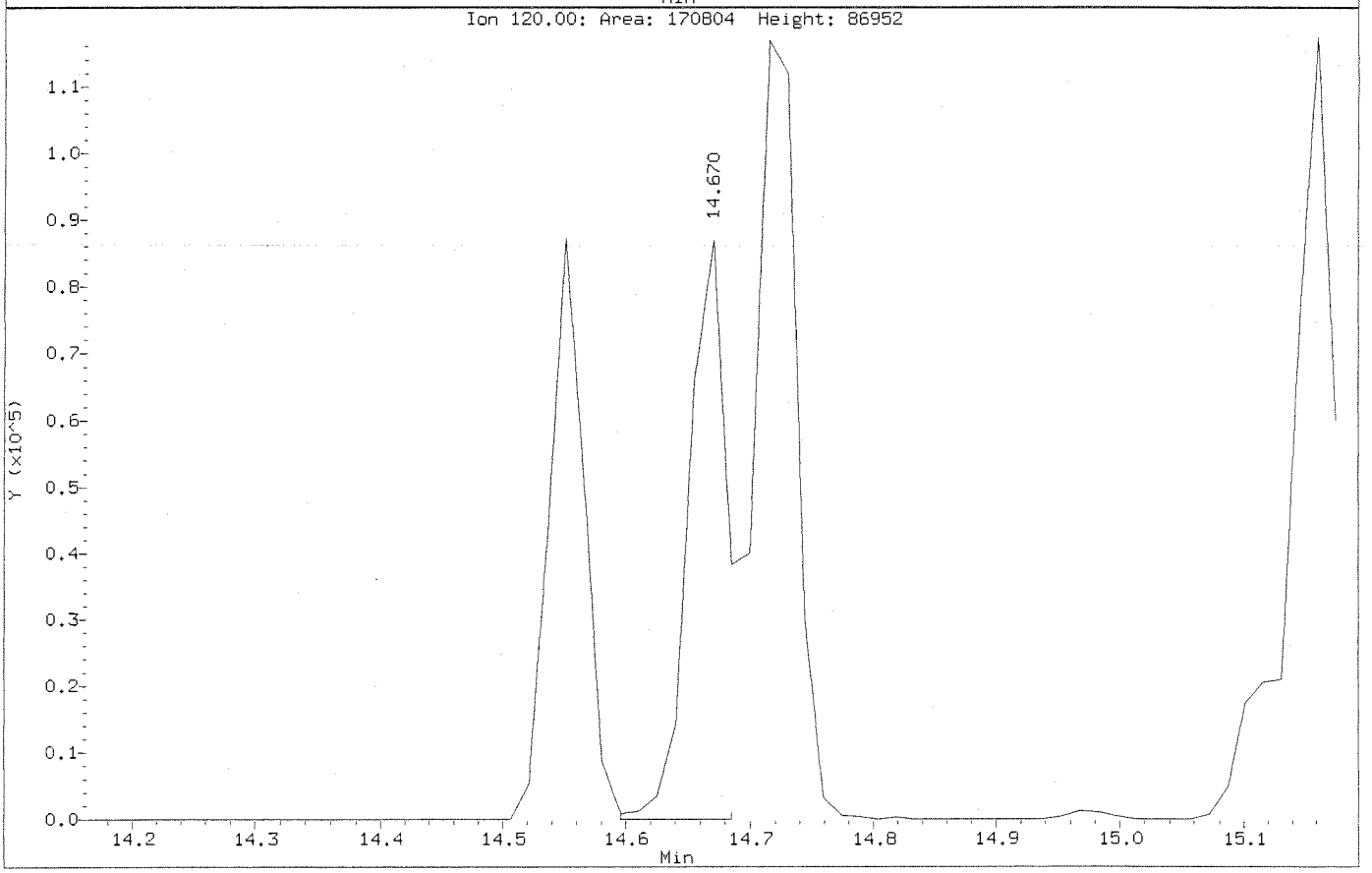
Injection Date: 27-DEC-2006 13:40
Instrument: MSK.i
Client Sample ID: VSTD010

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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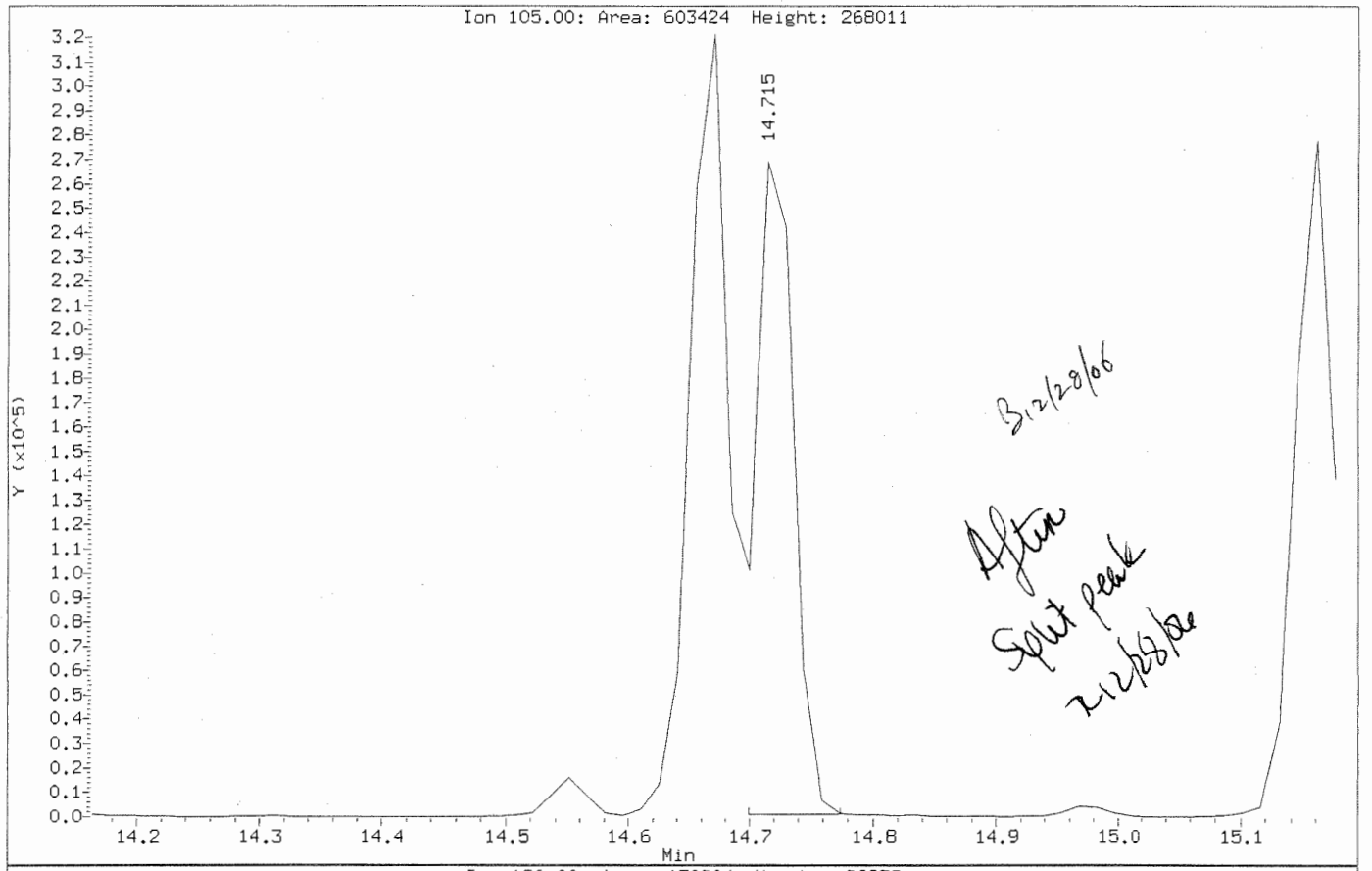
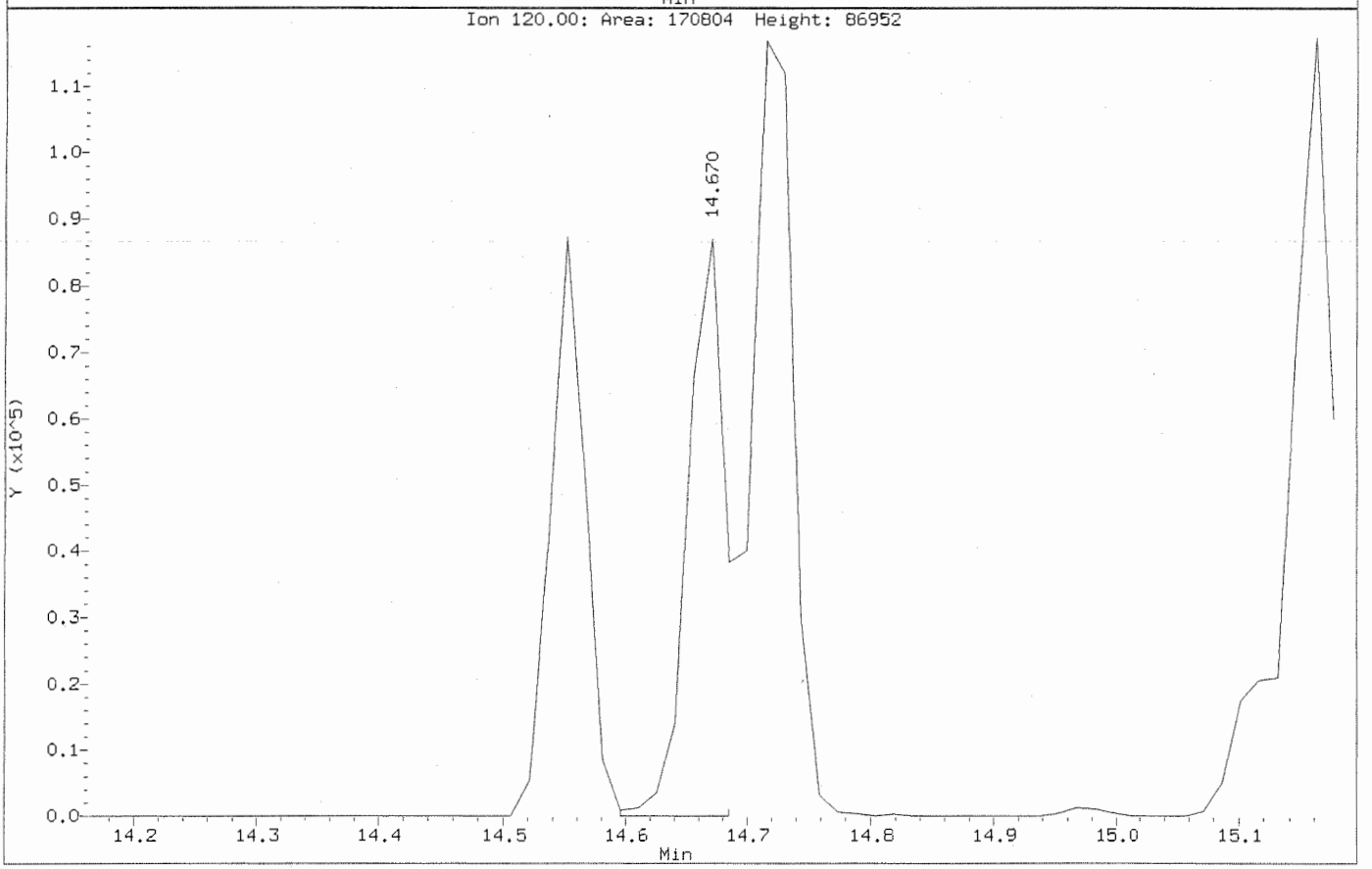
Injection Date: 27-DEC-2006 13:40
Instrument: MSK.i
Client Sample ID: VSTD010

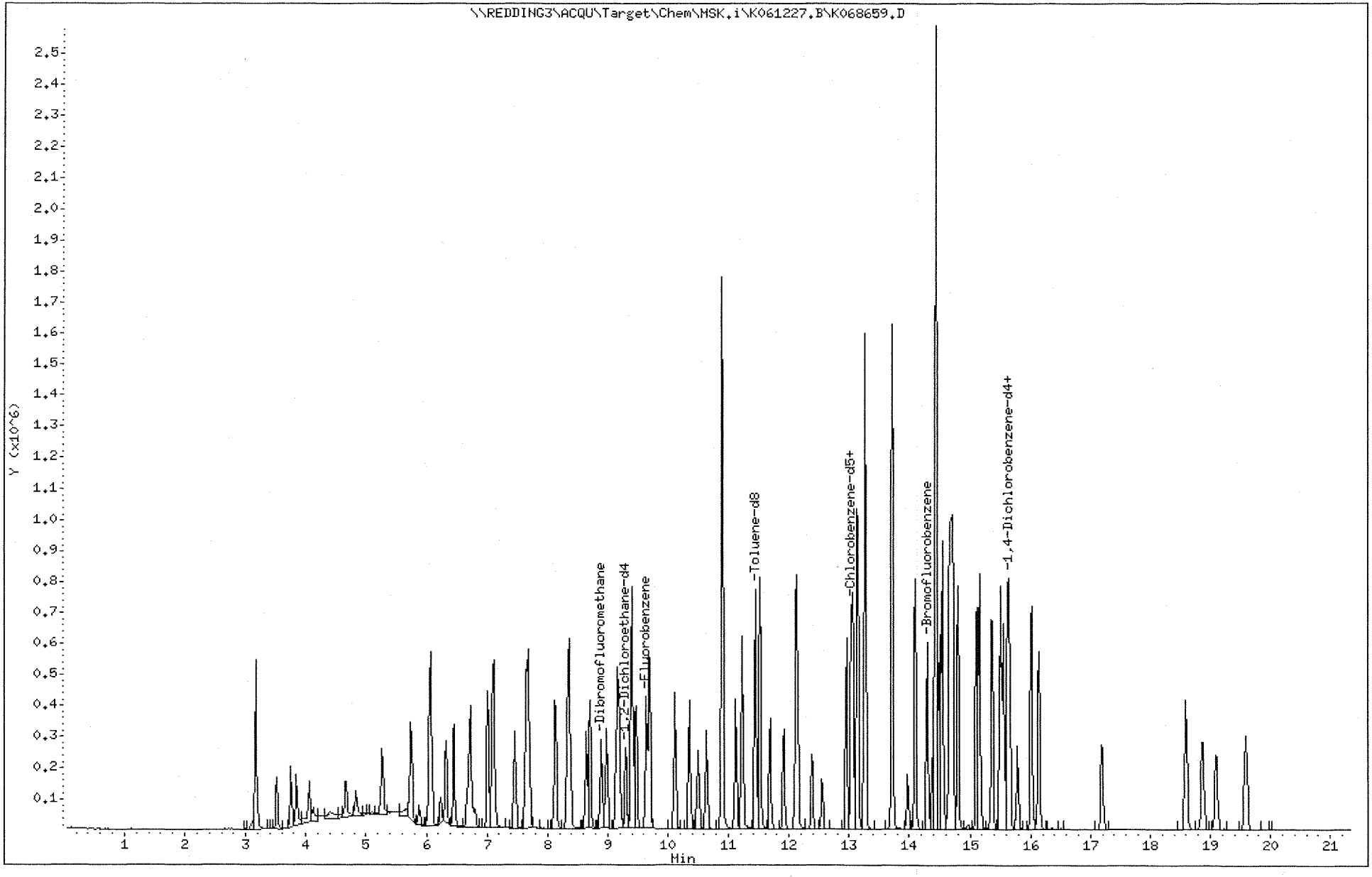
Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061227.B\K068659.D
Date : 27-DEC-2006 13:40
Client ID: VSTD010
Sample Info: VSTD010;VSTD010
Purge Volume: 10.0
Column phase: DB-624

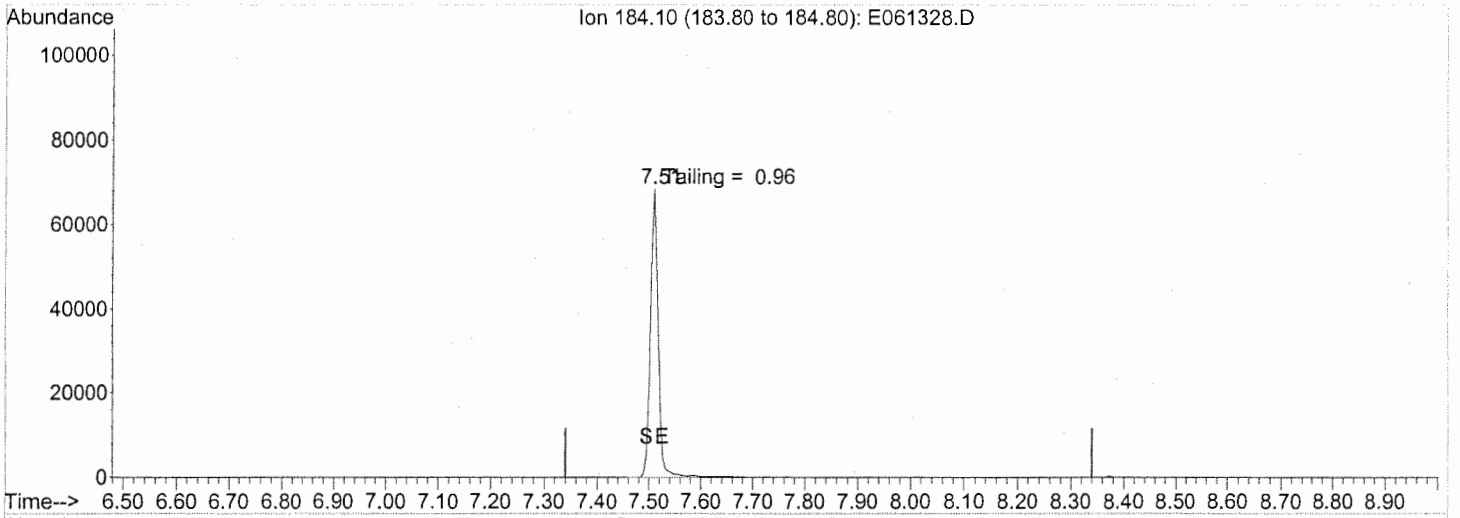
Instrument: MSK.i
Operator: X
Column diameter: 0.32

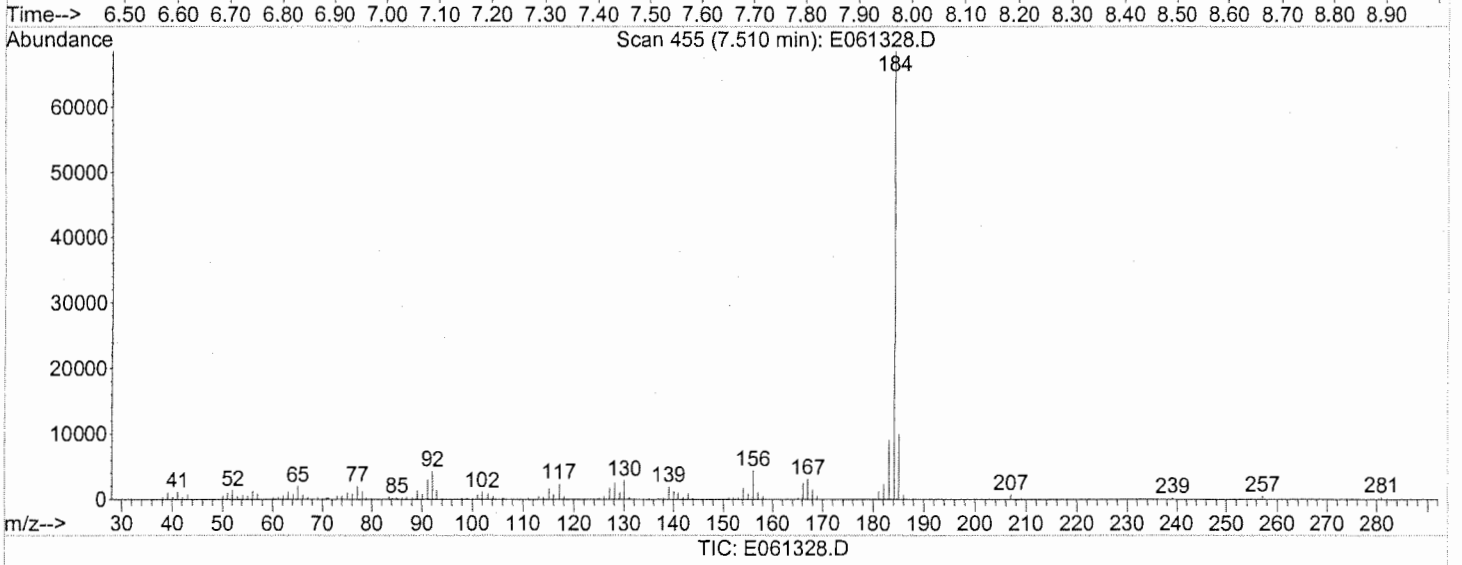


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061328.D Vial: 1
Acq On : 11 Oct 2006 1:13 pm Operator: SC
Sample : STUN1011 Inst : MSE
Misc : TUNE;;;;;;;23-MS-67-2 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Oct 12 13:52 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061328.D

(2) Benzidine

7.51min 0.00

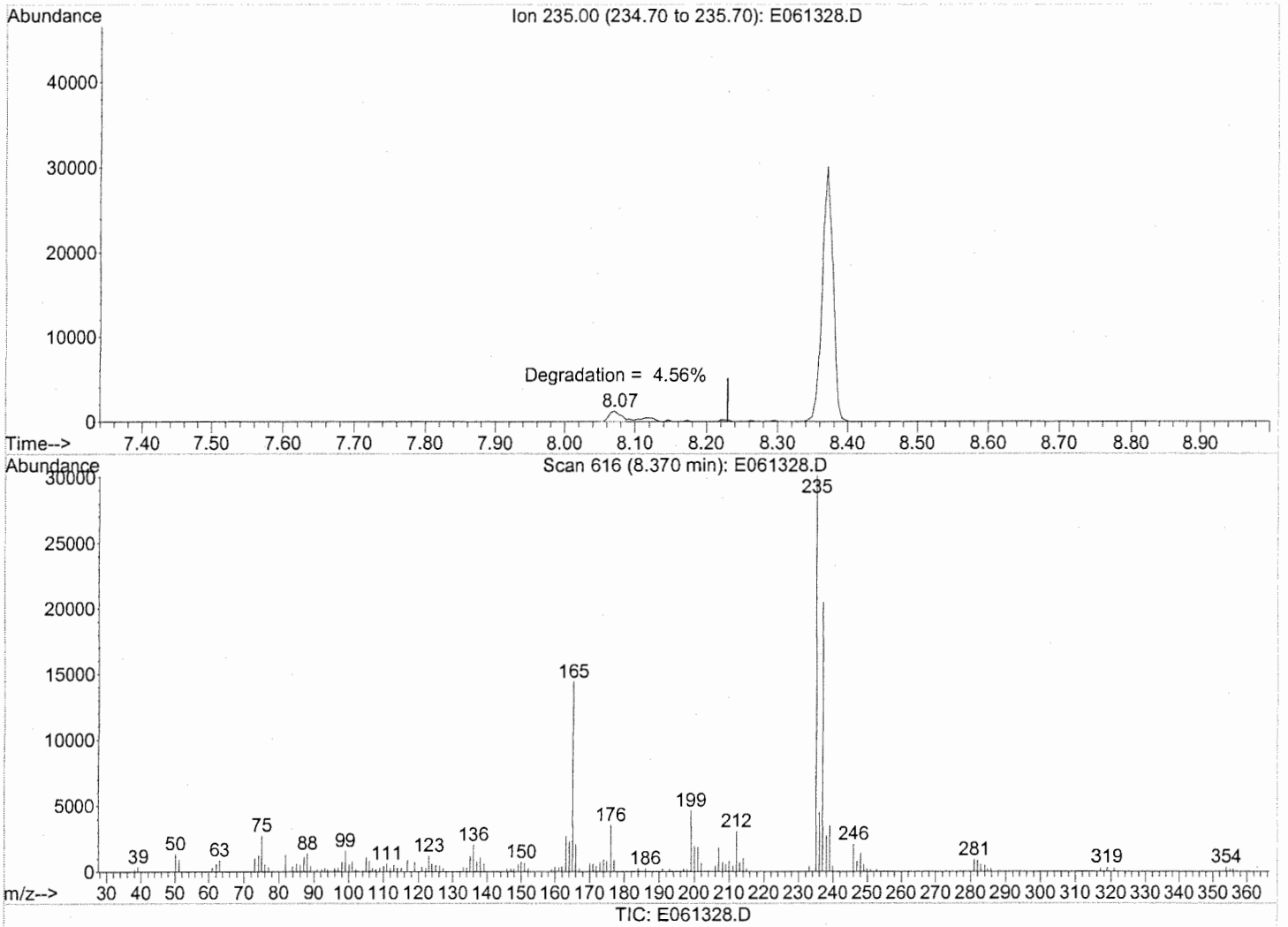
response 708123

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061328.D Vial: 1
Acq On : 11 Oct 2006 1:13 pm Operator: SC
Sample : STUN1011 Inst : MSE
Misc : TUNE;;;;;;;23-MS-67-2 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Oct 12 13:52 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration



(4) 4,4-DDT

8.37min 0.00

response 320076

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061330.D Vial: 3
Acq On : 11 Oct 2006 2:02 pm Operator: SC
Sample : IB 8270 10/11/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:42:37 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/12/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	156542	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	595444	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	365910	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	575732	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	323697	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	174854	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	0.00	112	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
7) Phenol-d5	0.00	99	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
23) Nitrobenzene-d5	0.00	82	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
41) 2-Fluorobiphenyl	0.00	172	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
61) 2,4,6-Tribromophenol	0.00	330	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
73) Terphenyl-d14	0.00	244	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		

Target Compounds Qvalue

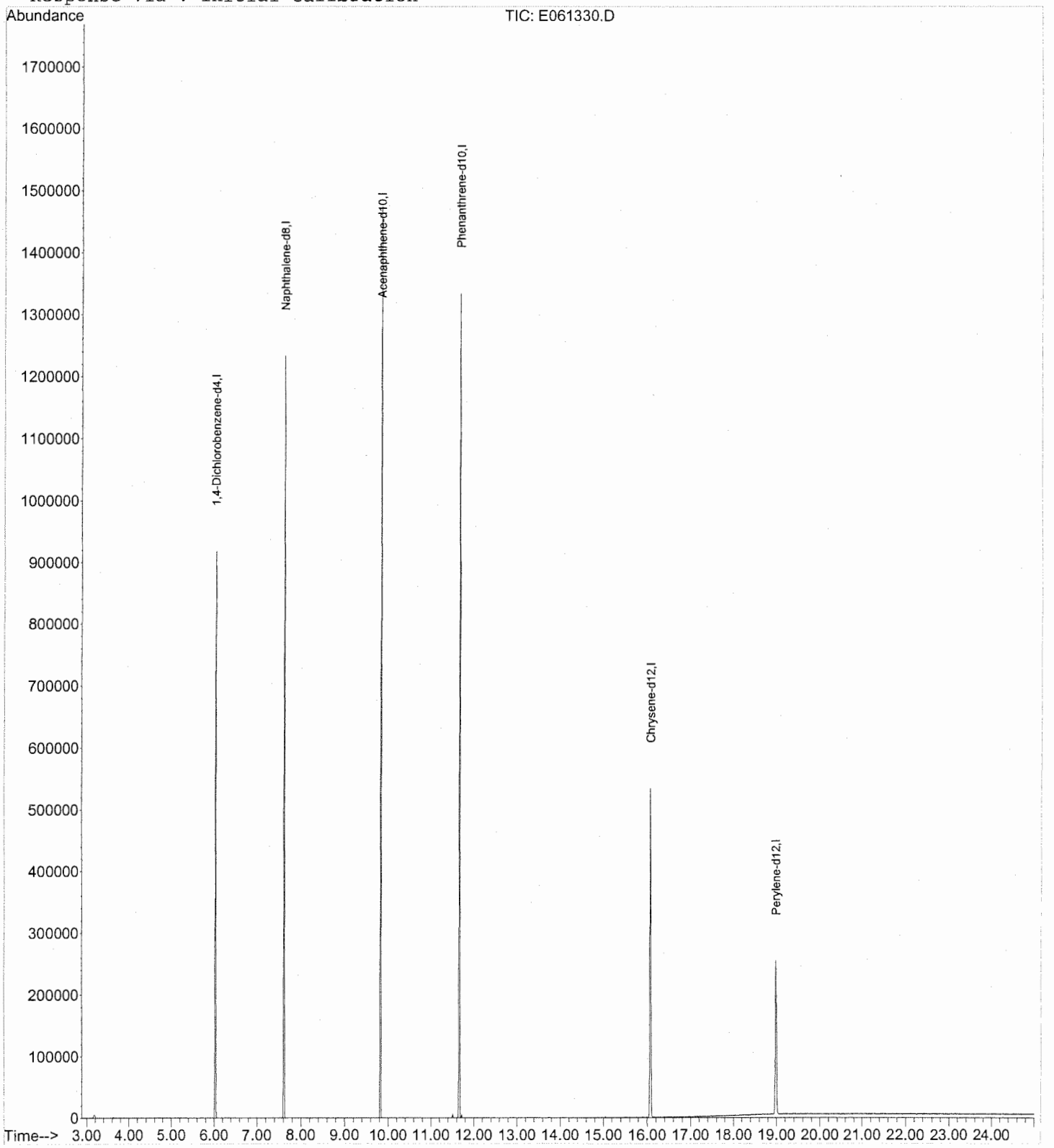
10/17/06

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061330.D BA061011.M Thu Oct 12 10:44:46 2006 Page 603

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061330.D Vial: 3
Acq On : 11 Oct 2006 2:02 pm Operator: SC
Sample : IB 8270 10/11/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:42 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061330.D Vial: 3
Acq On : 11 Oct 2006 2:02 pm Operator: SC
Sample : IB 8270 10/11/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:42:37 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

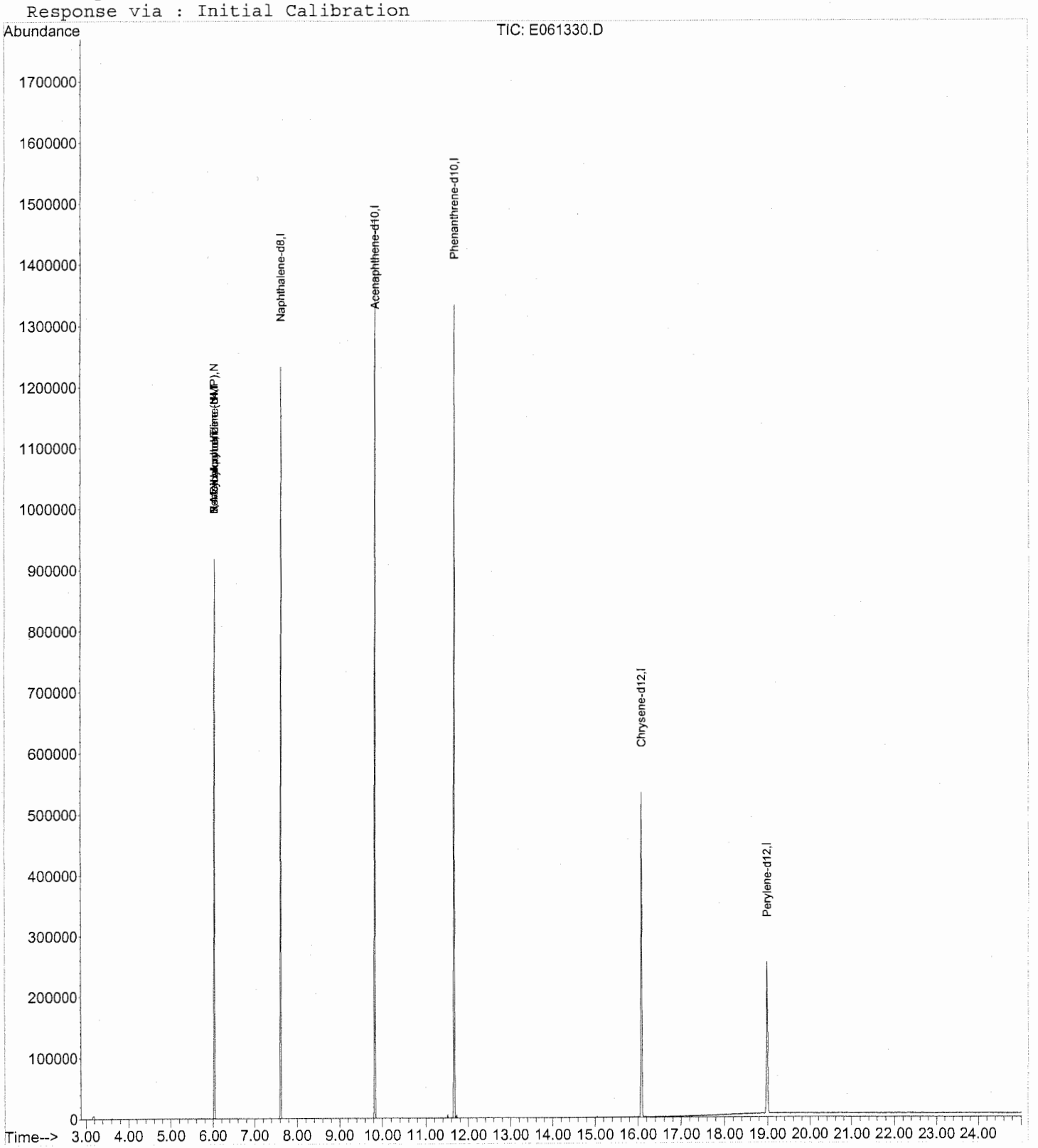
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	156542	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	595444	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	365910	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	575732	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	323697	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	174854	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	0.00	112	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
7) Phenol-d5	0.00	99	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
23) Nitrobenzene-d5	0.00	82	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
41) 2-Fluorobiphenyl	0.00	172	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
61) 2,4,6-Tribromophenol	0.00	330	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
73) Terphenyl-d14	0.00	244	0	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
14) Benzyl alcohol	6.03	108	709	0.22	mg/L #	1
16) N-Methyl pyrrolidine (NMP)	6.03	99	2591	0.79	mg/L #	34

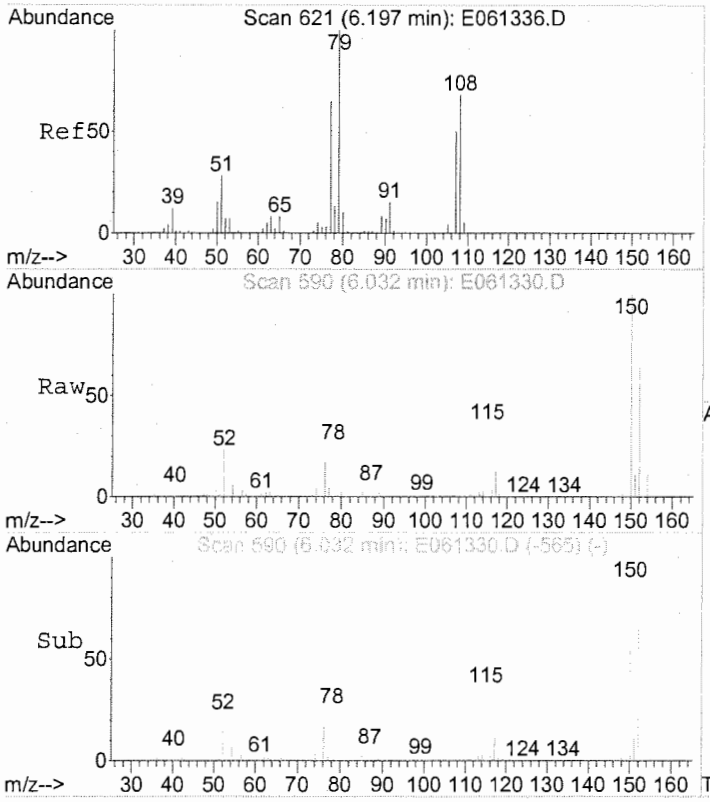
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061330.D Vial: 3
Acq On : 11 Oct 2006 2:02 pm Operator: SC
Sample : IB 8270 10/11/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:42 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration

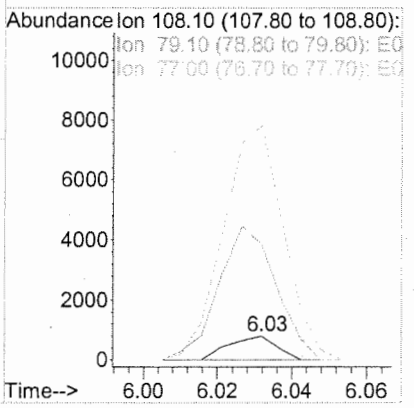


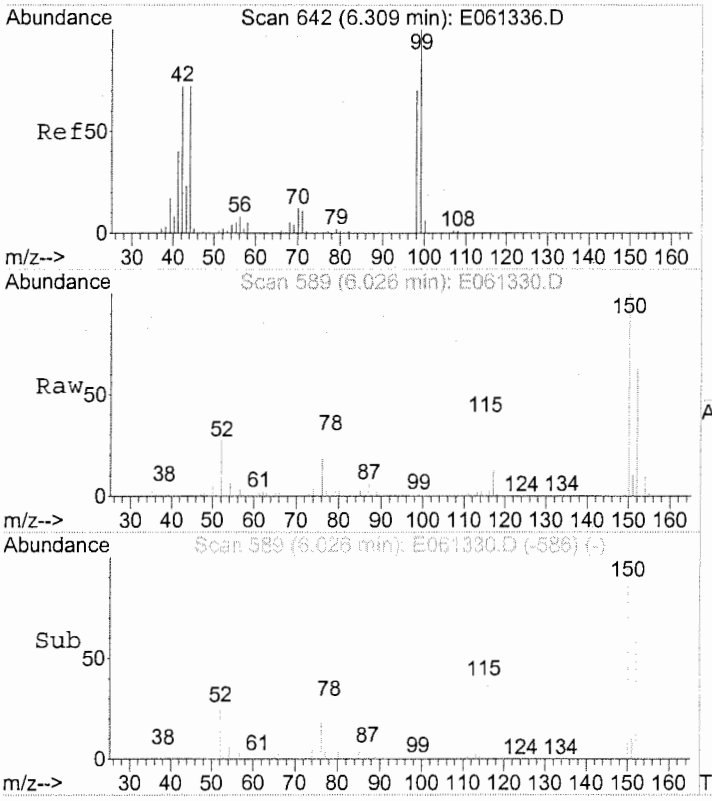


#14
Benzyl alcohol
Concen: 0.22 mg/L
RT: 6.03 min Scan# 590
Delta R.T. -0.17 min
Lab File: E061330.D
Acq: 11 Oct 2006 2:02 pm

Tgt Ion:108 Resp: 709

Ion	Ratio	Lower	Upper
108	100		
79	675.3	105.9	158.9#
77	1233.4	68.2	102.2#

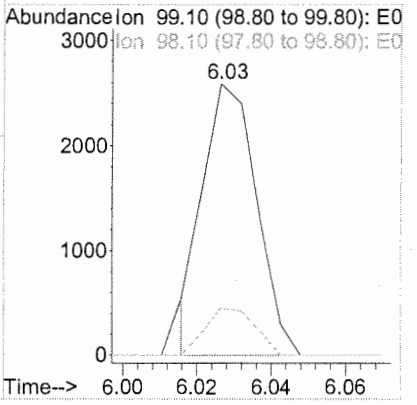




#16
N-Methyl pyrrolidine (NMP)
Concen: 0.79 mg/L
RT: 6.03 min Scan# 589
Delta R.T. -0.28 min
Lab File: E061330.D
Acq: 11 Oct 2006 2:02 pm

Tgt Ion: 99 Resp: 2591

Ion	Ratio	Lower	Upper
99	100		
98	16.0	56.5	84.7#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061331.D Vial: 4
Acq On : 11 Oct 2006 2:35 pm Operator: SC
Sample : 1PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:35:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E - 10/12/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	160154	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	613677	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	384655	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	608666	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	355266	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	196219	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	4186	0.94	mg/L	-0.01
Spiked Amount 50.000			Recovery = 1.88%			
7) Phenol-d5	5.58	99	5623	0.95	mg/L	-0.01
Spiked Amount 50.000			Recovery = 1.90%			
23) Nitrobenzene-d5	6.73	82	5002	0.90	mg/L	-0.01
Spiked Amount 50.000			Recovery = 1.80%			
41) 2-Fluorobiphenyl	8.96	172	11131	0.95	mg/L	0.00
Spiked Amount 50.000			Recovery = 1.90%			
61) 2,4,6-Tribromophenol	10.81	330	1064	0.70	mg/L	0.00
Spiked Amount 50.000			Recovery = 1.40%			
73) Terphenyl-d14	14.07	244	8556	0.89	mg/L	0.00
Spiked Amount 50.000			Recovery = 1.78%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	2650	0.99	mg/L	91
3) N-Nitrosodimethylamine	3.33	42	3063	0.98	mg/L	96
4) Pyridine	3.36	79	6359	0.94	mg/L	86
5) PGMEA	4.54	43	7491	0.96	mg/L	98
8) Phenol	5.60	94	5738	0.90	mg/L	89
9) Aniline	5.67	93	6693	0.93	mg/L	98
10) Bis(2-chloroethyl)ether	5.72	93	5067	0.98	mg/L	95
11) 2-Chlorophenol	5.81	128	4634	0.87	mg/L	95
12) 1,3-Dichlorobenzene	5.99	146	5808	0.93	mg/L	99
13) 1,4-Dichlorobenzene	6.05	146	6463	1.01	mg/L	99
14) Benzyl alcohol	6.19	108	2750	0.85	mg/L	91
15) 1,2-Dichlorobenzene	6.28	146	5517	0.93	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.25	99	2979	0.89	mg/L	89
17) 2-Methylphenol	6.33	108	4131	0.91	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.38	45	7191	0.99	mg/L	98
19) 4-Methylphenol	6.50	107	5393	0.89	mg/L	96
20) N-Nitrosodi-n-propylamine	6.55	70	3373	0.88	mg/L	97
21) Hexachloroethane	6.66	117	2310	0.96	mg/L	95
24) Nitrobenzene	6.75	77	5629	0.92	mg/L	94
25) Isophorone	7.03	82	9090	0.87	mg/L	99
26) 2-Nitrophenol	7.15	139	2296	0.76	mg/L #	79
27) 2,4-Dimethylphenol	7.16	122	3861	0.83	mg/L	99
28) Benzoic acid	7.22	122	1421	0.46	mg/L	96
29) Bis(2-chloroethoxy)methane	7.29	93	5651	0.92	mg/L	97
30) 2,4-Dichlorophenol	7.43	162	3924	0.84	mg/L	97
31) 1,2,4-Trichlorobenzene	7.55	180	5074	0.94	mg/L	98
32) Naphthalene	7.63	128	14956	0.97	mg/L	99
33) 4-Chloroaniline	7.71	127	4536	0.81	mg/L	96
34) Hexachlorobutadiene	7.85	225	3286	0.98	mg/L	96

CA 10/17/06

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061331.D Vial: 4
Acq On : 11 Oct 2006 2:35 pm Operator: SC
Sample : 1PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:35:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

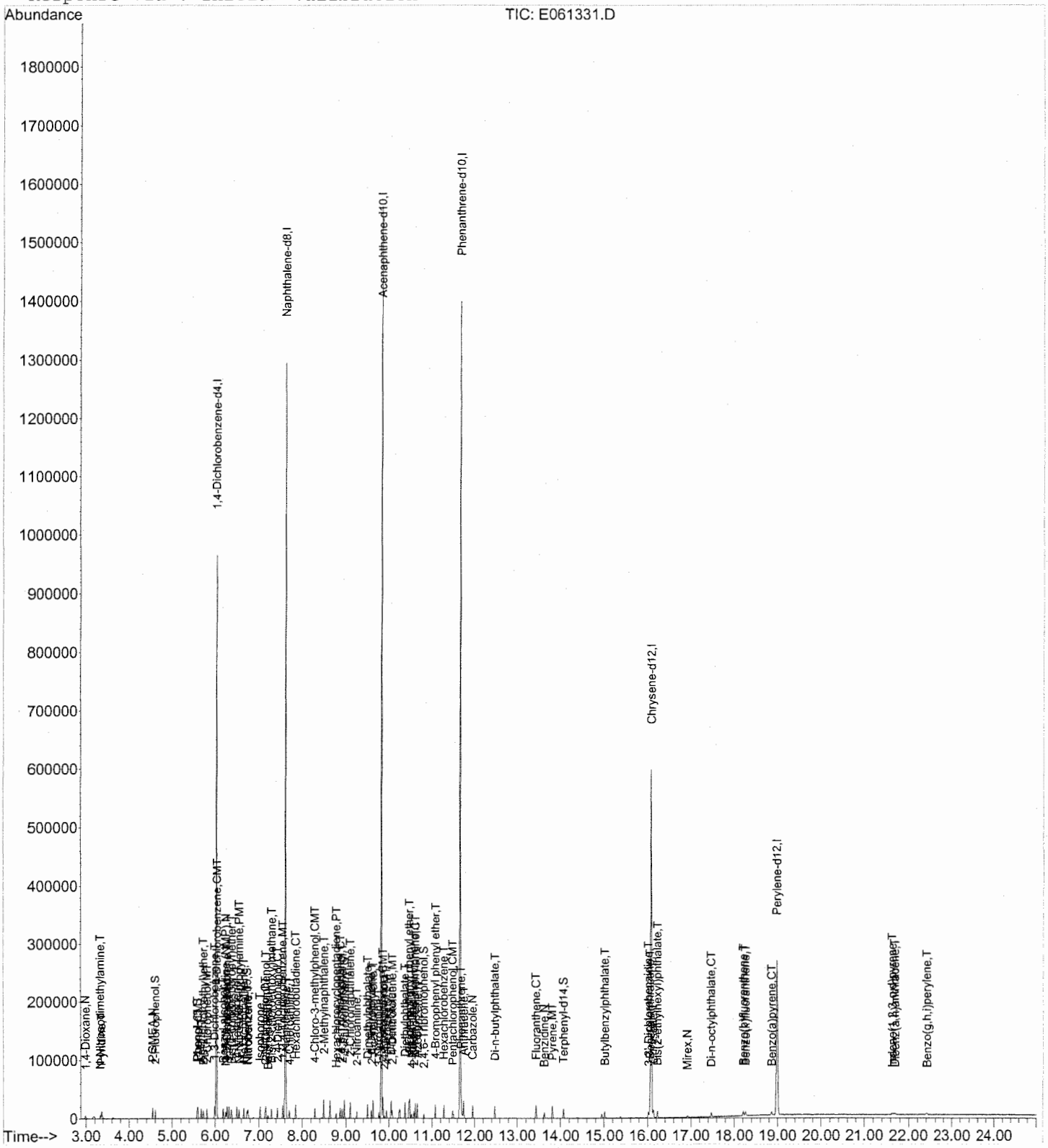
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	3827	0.83	mg/L		94
36)	2-Methylnaphthalene	8.49	142	10026	0.90	mg/L		100
38)	Hexachlorocyclopentadiene	8.78	237	2023	0.57	mg/L	#	96
39)	2,4,6-Trichlorophenol	8.87	196	2929	0.80	mg/L		94
40)	2,4,5-Trichlorophenol	8.92	196	3313	0.84	mg/L	#	93
42)	2-Chloronaphthalene	9.10	162	9746	0.96	mg/L		95
43)	2-Nitroaniline	9.25	65	2112	0.67	mg/L		90
44)	Dimethylphthalate	9.50	163	10573	0.89	mg/L		96
45)	Acenaphthylene	9.63	152	14568	0.89	mg/L		99
46)	2,6-Dinitrotoluene	9.60	165	2168	0.76	mg/L		93
47)	3-Nitroaniline	9.77	138	1793	0.75	mg/L	#	80
48)	Acenaphthene	9.86	154	9106	0.93	mg/L		94
49)	2,4-Dinitrophenol	9.89	184	1048	0.27	mg/L	#	89
50)	4-Nitrophenol	9.94	109	2070	0.57	mg/L		91
51)	Dibenzofuran	10.05	168	14376	0.95	mg/L		99
52)	2,4-Dinitrotoluene	10.08	165	2891	0.79	mg/L	#	83
53)	Fluorene	10.49	166	10722	0.87	mg/L		95
54)	Diethylphthalate	10.38	149	10774	0.90	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.47	204	5752	0.91	mg/L		95
56)	4-Nitroaniline	10.53	138	1617	0.73	mg/L		96
58)	2-Methyl-4,6-dinitrophenol	10.58	198	2103	0.45	mg/L		99
59)	N-Nitrosodiphenylamine	10.62	169	7624	1.00	mg/L		98
60)	Azobenzene	10.66	77	10822	0.92	mg/L		98
62)	4-Bromophenyl phenyl ether	11.07	248	3193	0.91	mg/L		94
63)	Hexachlorobenzene	11.28	284	3300	0.93	mg/L		97
64)	Pentachlorophenol	11.49	266	2168	0.43	mg/L		96
65)	Phenanthrene	11.69	178	16906	0.96	mg/L		96
66)	Anthracene	11.75	178	14674	0.84	mg/L		99
67)	Carbazole	11.95	167	11342	1.03	mg/L		98
68)	Di-n-butylphthalate	12.48	149	14010	0.78	mg/L		98
69)	Fluoranthene	13.44	202	13790	0.84	mg/L		97
71)	Benzidine	13.63	184	6931	0.96	mg/L	#	96
72)	Pyrene	13.81	202	14213	0.93	mg/L		98
74)	Butylbenzylphthalate	15.02	149	4330	0.74	mg/L	#	94
75)	3,3'-Dichlorobenzidine	16.01	252	4194	0.70	mg/L		96
76)	Benz(a)anthracene	16.04	228	9758	0.96	mg/L		95
77)	Chrysene	16.12	228	9018	0.95	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	16.22	149	5694	0.78	mg/L		97
79)	Mirex	16.92	272	1031	0.97	mg/L		95
81)	Di-n-octylphthalate	17.47	149	6615	0.63	mg/L	#	93
82)	Benzo(b)fluoranthene	18.21	252	5834	0.87	mg/L	#	88
83)	Benzo(k)fluoranthene	18.26	252	5385	0.83	mg/L	#	96
84)	Benzo(a)pyrene	18.86	252	4277	0.79	mg/L	#	83
85)	Indeno(1,2,3-c,d)pyrene	21.64	276	3978m	0.93	mg/L		
86)	Dibenz(a,h)anthracene	21.69	278	3260	0.89	mg/L	#	86
87)	Benzo(g,h,i)perylene	22.41	276	3327	0.96	mg/L	#	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061331.D Vial: 4
Acq On : 11 Oct 2006 2:35 pm Operator: SC
Sample : 1PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37 2006 Quant Results File: BA061011.RES

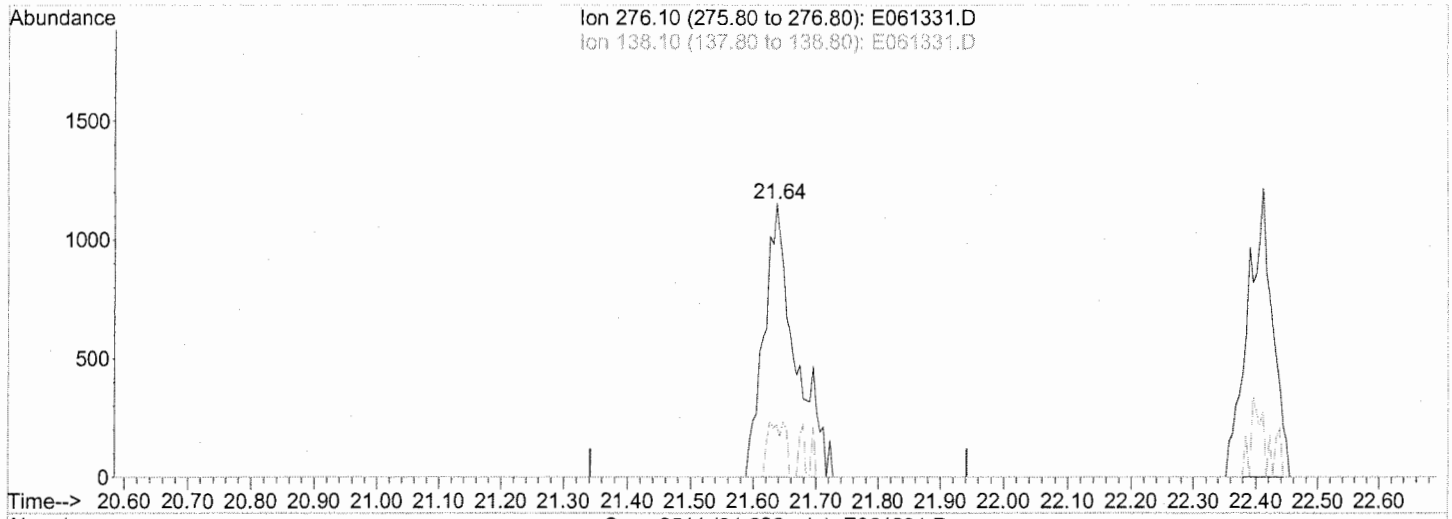
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration

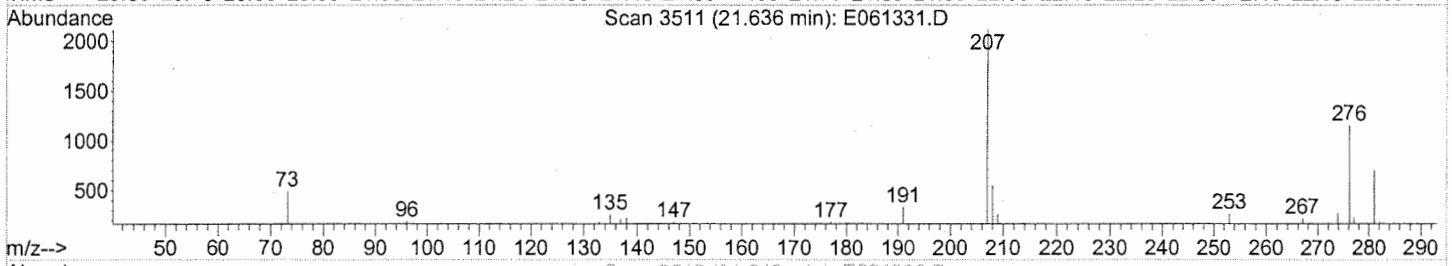


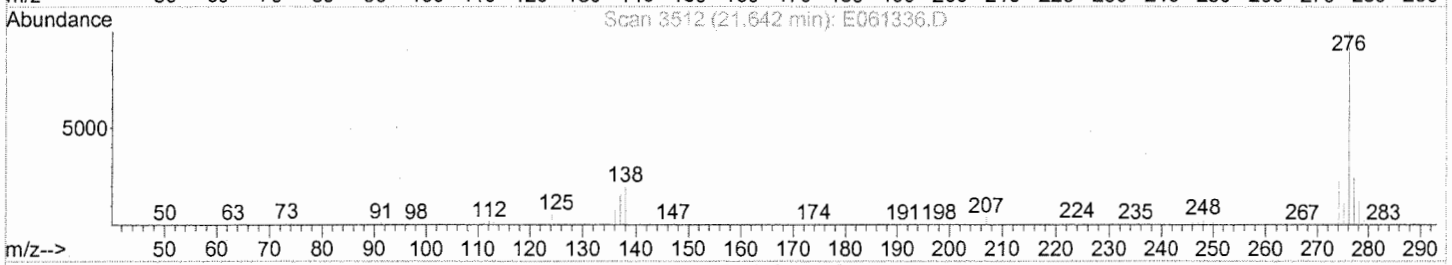
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061331.D Vial: 4
Acq On : 11 Oct 2006 2:35 pm Operator: SC
Sample : 1PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration







TIC: E061331.D

(85) Indeno(1,2,3-c,d)pyrene (T)

21.64min 0.93mg/L m

response 3978

Ion	Exp%	Act%
276.10	100	100
138.10	23.20	11.44#
0.00	0.00	0.00
0.00	0.00	0.00

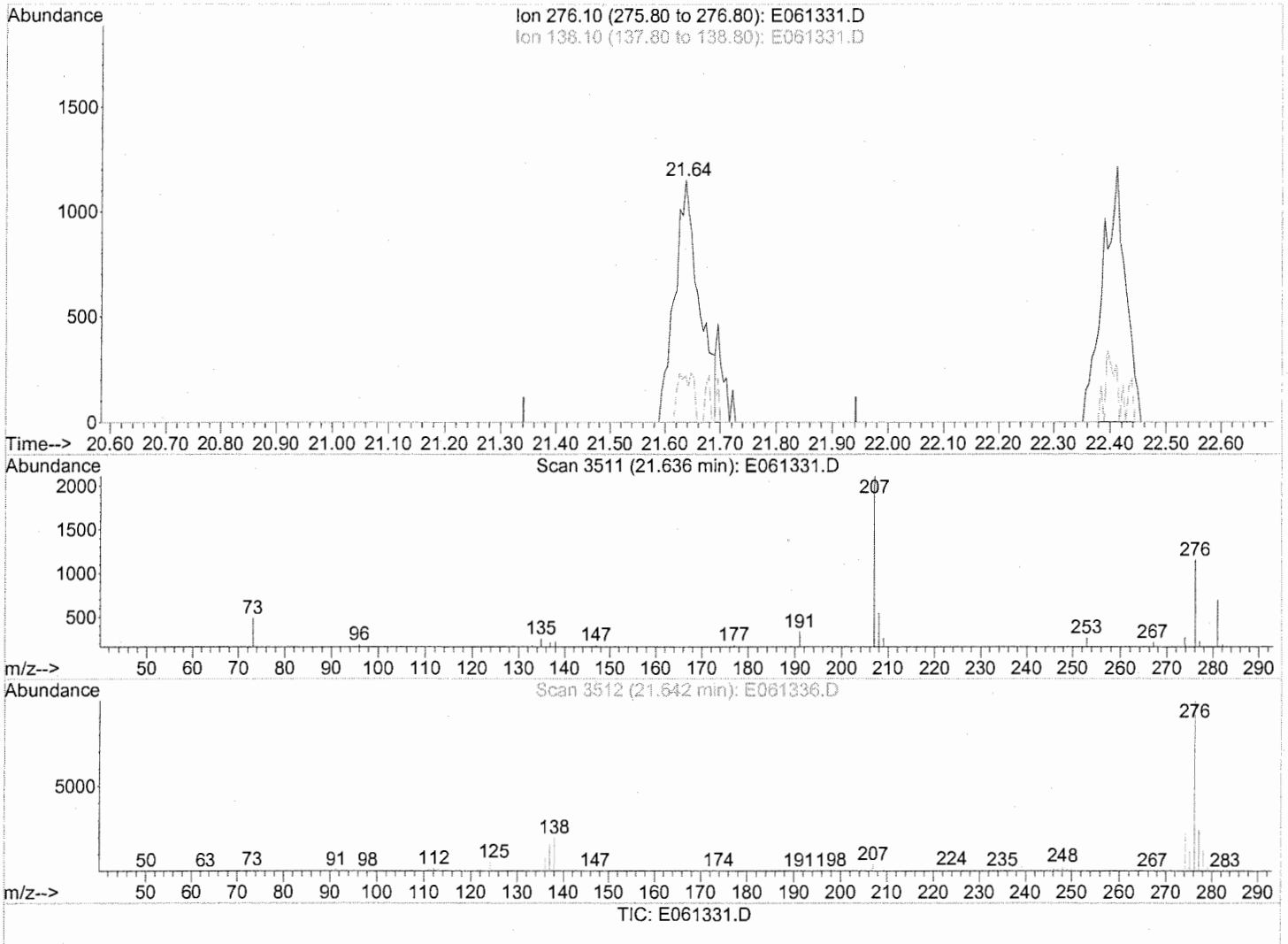
Spike pg E. 10/12/06

10/17/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061331.D Vial: 4
Acq On : 11 Oct 2006 2:35 pm Operator: SC
Sample : 1PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:35 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration



TIC: E061331.D

(85) Indeno(1,2,3-c,d)pyrene (T)

21.64min 0.83mg/L

response 3562

Ion	Exp%	Act%
276.10	100	100
138.10	23.20	12.77#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061331.D Vial: 4
Acq On : 11 Oct 2006 2:35 pm Operator: SC
Sample : 1PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:35:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	160154	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	613677	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	384655	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	608666	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	355266	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	196219	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	4186	0.94	mg/L	-0.01
Spiked Amount 50.000			Recovery =	1.88%		
7) Phenol-d5	5.58	99	5623	0.95	mg/L	-0.01
Spiked Amount 50.000			Recovery =	1.90%		
23) Nitrobenzene-d5	6.73	82	5002	0.90	mg/L	-0.01
Spiked Amount 50.000			Recovery =	1.80%		
41) 2-Fluorobiphenyl	8.96	172	11131	0.95	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.90%		
61) 2,4,6-Tribromophenol	10.81	330	1064	0.70	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.40%		
73) Terphenyl-d14	14.07	244	8556	0.89	mg/L	0.00
Spiked Amount 50.000			Recovery =	1.78%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	2650	0.99	mg/L	91
3) N-Nitrosodimethylamine	3.33	42	3063	0.98	mg/L	96
4) Pyridine	3.36	79	6359	0.94	mg/L	86
5) PGMEA	4.54	43	7491	0.96	mg/L	98
8) Phenol	5.60	94	5738	0.90	mg/L	89
9) Aniline	5.67	93	6693	0.93	mg/L	98
10) Bis(2-chloroethyl)ether	5.72	93	5067	0.98	mg/L	95
11) 2-Chlorophenol	5.81	128	4634	0.87	mg/L	95
12) 1,3-Dichlorobenzene	5.99	146	5808	0.93	mg/L	99
13) 1,4-Dichlorobenzene	6.05	146	6463	1.01	mg/L	99
14) Benzyl alcohol	6.19	108	2750	0.85	mg/L	91
15) 1,2-Dichlorobenzene	6.28	146	5517	0.93	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.25	99	2979	0.89	mg/L	89
17) 2-Methylphenol	6.33	108	4131	0.91	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.38	45	7191	0.99	mg/L	98
19) 4-Methylphenol	6.50	107	5393	0.89	mg/L	96
20) N-Nitrosodi-n-propylamine	6.55	70	3373	0.88	mg/L	97
21) Hexachloroethane	6.66	117	2310	0.96	mg/L	95
24) Nitrobenzene	6.75	77	5629	0.92	mg/L	94
25) Isophorone	7.03	82	9090	0.87	mg/L	99
26) 2-Nitrophenol	7.15	139	2296	0.76	mg/L #	79
27) 2,4-Dimethylphenol	7.16	122	3861	0.83	mg/L	99
28) Benzoic acid	7.22	122	1421	0.46	mg/L	96
29) Bis(2-chloroethoxy)methane	7.29	93	5651	0.92	mg/L	97
30) 2,4-Dichlorophenol	7.43	162	3924	0.84	mg/L	97
31) 1,2,4-Trichlorobenzene	7.55	180	5074	0.94	mg/L	98
32) Naphthalene	7.63	128	14956	0.97	mg/L	99
33) 4-Chloroaniline	7.71	127	4536	0.81	mg/L	96
34) Hexachlorobutadiene	7.85	225	3286	0.98	mg/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061331.D Vial: 4
Acq On : 11 Oct 2006 2:35 pm Operator: SC
Sample : 1PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:35:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

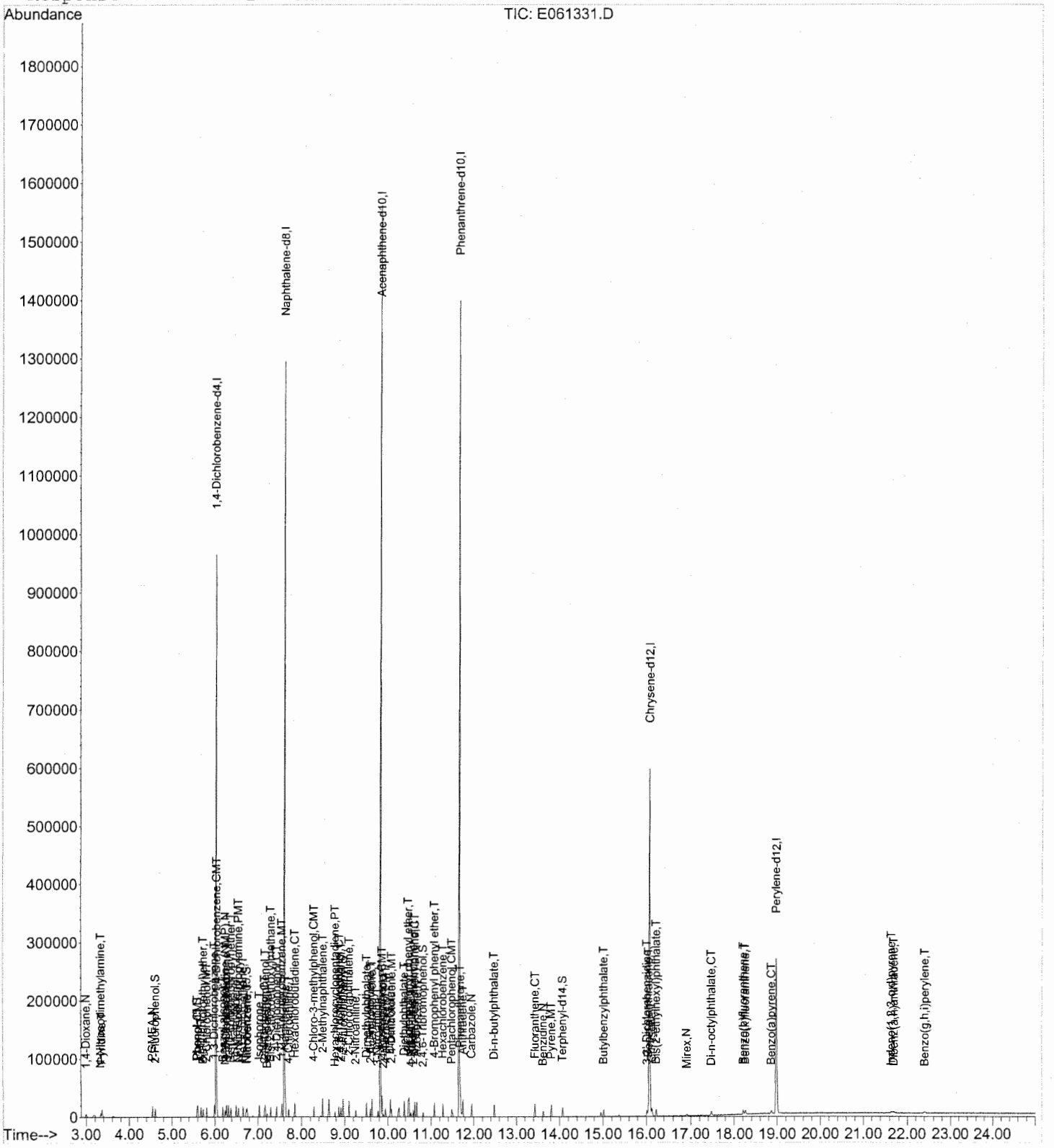
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	3827	0.83	mg/L		94
36)	2-Methylnaphthalene	8.49	142	10026	0.90	mg/L		100
38)	Hexachlorocyclopentadiene	8.78	237	2023	0.57	mg/L	#	96
39)	2,4,6-Trichlorophenol	8.87	196	2929	0.80	mg/L		94
40)	2,4,5-Trichlorophenol	8.92	196	3313	0.84	mg/L	#	93
42)	2-Chloronaphthalene	9.10	162	9746	0.96	mg/L		95
43)	2-Nitroaniline	9.25	65	2112	0.67	mg/L		90
44)	Dimethylphthalate	9.50	163	10573	0.89	mg/L		96
45)	Acenaphthylene	9.63	152	14568	0.89	mg/L		99
46)	2,6-Dinitrotoluene	9.60	165	2168	0.76	mg/L		93
47)	3-Nitroaniline	9.77	138	1793	0.75	mg/L	#	80
48)	Acenaphthene	9.86	154	9106	0.93	mg/L		94
49)	2,4-Dinitrophenol	9.89	184	1048	0.27	mg/L	#	89
50)	4-Nitrophenol	9.94	109	2070	0.57	mg/L		91
51)	Dibenzofuran	10.05	168	14376	0.95	mg/L		99
52)	2,4-Dinitrotoluene	10.08	165	2891	0.79	mg/L	#	83
53)	Fluorene	10.49	166	10722	0.87	mg/L		95
54)	Diethylphthalate	10.38	149	10774	0.90	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.47	204	5752	0.91	mg/L		95
56)	4-Nitroaniline	10.53	138	1617	0.73	mg/L		96
58)	2-Methyl-4,6-dinitrophenol	10.58	198	2103	0.45	mg/L		99
59)	N-Nitrosodiphenylamine	10.62	169	7624	1.00	mg/L		98
60)	Azobenzene	10.66	77	10822	0.92	mg/L		98
62)	4-Bromophenyl phenyl ether	11.07	248	3193	0.91	mg/L		94
63)	Hexachlorobenzene	11.28	284	3300	0.93	mg/L		97
64)	Pentachlorophenol	11.49	266	2168	0.43	mg/L		96
65)	Phenanthrene	11.69	178	16906	0.96	mg/L		96
66)	Anthracene	11.75	178	14674	0.84	mg/L		99
67)	Carbazole	11.95	167	11342	1.03	mg/L		98
68)	Di-n-butylphthalate	12.48	149	14010	0.78	mg/L		98
69)	Fluoranthene	13.44	202	13790	0.84	mg/L		97
71)	Benzidine	13.63	184	6931	0.96	mg/L	#	96
72)	Pyrene	13.81	202	14213	0.93	mg/L		98
74)	Butylbenzylphthalate	15.02	149	4330	0.74	mg/L	#	94
75)	3,3'-Dichlorobenzidine	16.01	252	4194	0.70	mg/L		96
76)	Benz(a)anthracene	16.04	228	9758	0.96	mg/L		95
77)	Chrysene	16.12	228	9018	0.95	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	16.22	149	5694	0.78	mg/L		97
79)	Mirex	16.92	272	1031	0.97	mg/L		95
81)	Di-n-octylphthalate	17.47	149	6615	0.63	mg/L	#	93
82)	Benzo(b)fluoranthene	18.21	252	5834	0.87	mg/L	#	88
83)	Benzo(k)fluoranthene	18.26	252	5385	0.83	mg/L	#	96
84)	Benzo(a)pyrene	18.86	252	4277	0.79	mg/L	#	83
85)	Indeno(1,2,3-c,d)pyrene	21.64	276	3562	0.83	mg/L	#	79
86)	Dibenz(a,h)anthracene	21.69	278	3260	0.89	mg/L	#	86
87)	Benzo(g,h,i)perylene	22.41	276	3327	0.96	mg/L	#	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061331.D Vial: 4
Acq On : 11 Oct 2006 2:35 pm Operator: SC
Sample : 1PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:35 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061332.D Vial: 5
Acq On : 11 Oct 2006 3:07 pm Operator: SC
Sample : 2PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:34:10 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E. 10/12/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	147602	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	560532	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	352526	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	554715	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	333966	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	188444	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	7412	1.80	mg/L	-0.01
Spiked Amount 50.000			Recovery =	3.60%		
7) Phenol-d5	5.58	99	9962	1.83	mg/L	-0.01
Spiked Amount 50.000			Recovery =	3.66%		
23) Nitrobenzene-d5	6.73	82	9530	1.87	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.74%		
41) 2-Fluorobiphenyl	8.96	172	20869	1.94	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.88%		
61) 2,4,6-Tribromophenol	10.81	330	2220	1.60	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.20%		
73) Terphenyl-d14	14.07	244	16325	1.80	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.60%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	4996	2.03	mg/L	94
3) N-Nitrosodimethylamine	3.33	42	5602	1.94	mg/L	90
4) Pyridine	3.36	79	11660	1.87	mg/L	97
5) PGMEA	4.54	43	13824	1.93	mg/L	96
8) Phenol	5.60	94	11330	1.94	mg/L	91
9) Aniline	5.67	93	13148	1.99	mg/L	97
10) Bis(2-chloroethyl)ether	5.72	93	9476	1.98	mg/L	92
11) 2-Chlorophenol	5.81	128	9104	1.87	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	11278	1.96	mg/L	97
13) 1,4-Dichlorobenzene	6.05	146	11712m	1.99	mg/L	
14) Benzyl alcohol	6.19	108	5368	1.80	mg/L	92
15) 1,2-Dichlorobenzene	6.28	146	10292	1.89	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.25	99	5640	1.82	mg/L	98
17) 2-Methylphenol	6.33	108	8008	1.91	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.38	45	13348	2.00	mg/L	97
19) 4-Methylphenol	6.50	107	10310	1.85	mg/L	98
20) N-Nitrosodi-n-propylamine	6.55	70	6523	1.84	mg/L	96
21) Hexachloroethane	6.66	117	4159	1.87	mg/L	88
24) Nitrobenzene	6.75	77	10678	1.91	mg/L	95
25) Isophorone	7.03	82	17014	1.79	mg/L	99
26) 2-Nitrophenol	7.15	139	4694	1.69	mg/L #	77
27) 2,4-Dimethylphenol	7.16	122	7014	1.64	mg/L	94
28) Benzoic acid	7.22	122	3033	1.08	mg/L	90
29) Bis(2-chloroethoxy)methane	7.29	93	10685	1.91	mg/L #	96
30) 2,4-Dichlorophenol	7.43	162	7941	1.86	mg/L	96
31) 1,2,4-Trichlorobenzene	7.55	180	9709	1.97	mg/L	98
32) Naphthalene	7.63	128	27525	1.96	mg/L	100
33) 4-Chloroaniline	7.71	127	9497	1.86	mg/L	98
34) Hexachlorobutadiene	7.85	225	6026	1.96	mg/L	98

(#) = qualifier out of range (m) = manual integration

10/17/06

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061332.D Vial: 5
Acq On : 11 Oct 2006 3:07 pm Operator: SC
Sample : 2PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:34:10 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

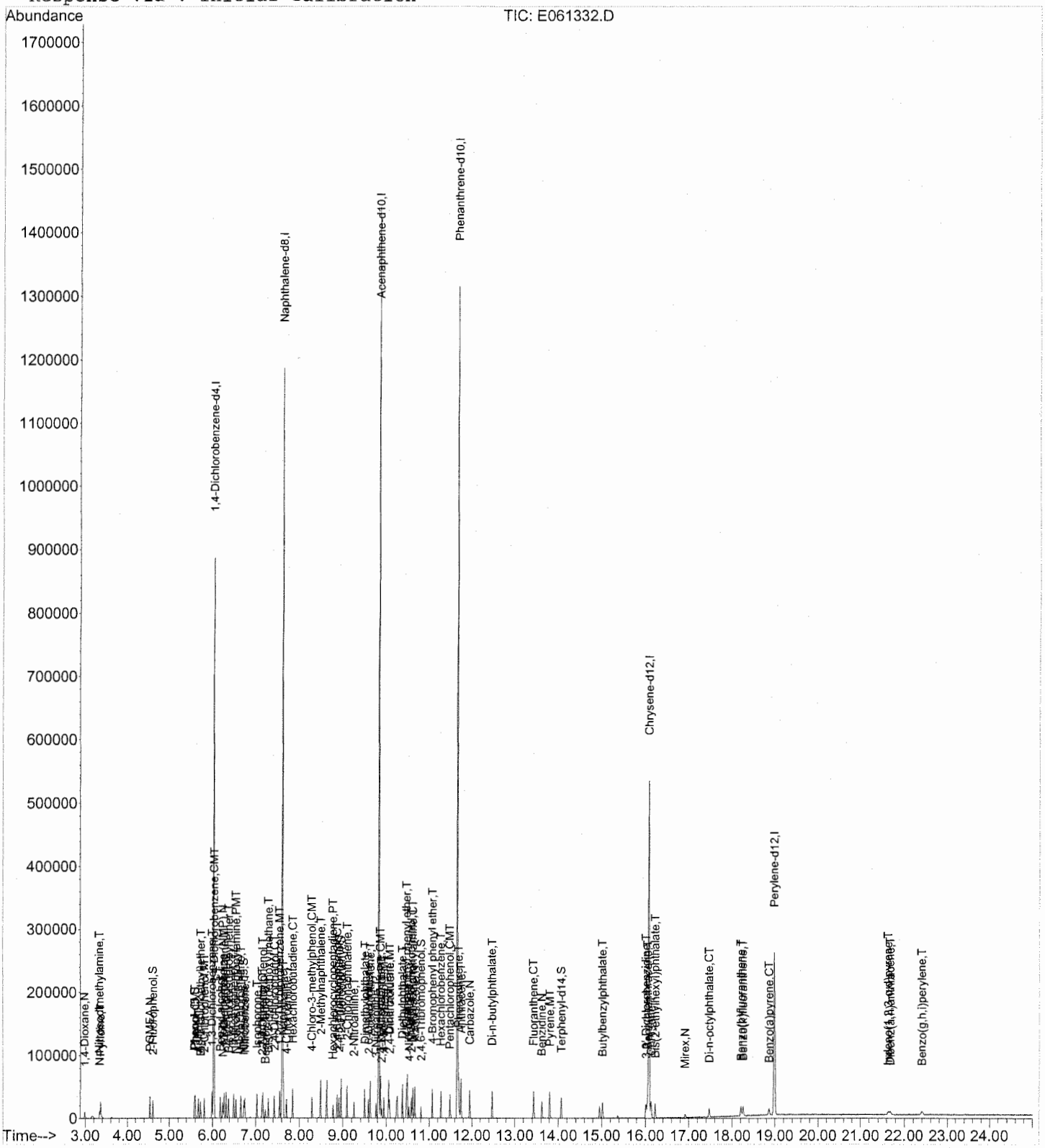
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	7147	1.69	mg/L		97
36)	2-Methylnaphthalene	8.49	142	19143	1.89	mg/L		99
38)	Hexachlorocyclopentadiene	8.77	237	4020	1.24	mg/L		96
39)	2,4,6-Trichlorophenol	8.87	196	5837	1.74	mg/L		97
40)	2,4,5-Trichlorophenol	8.92	196	6231	1.72	mg/L		98
42)	2-Chloronaphthalene	9.10	162	17882	1.92	mg/L		97
43)	2-Nitroaniline	9.25	65	4723	1.64	mg/L		94
44)	Dimethylphthalate	9.50	163	20368	1.87	mg/L		100
45)	Acenaphthylene	9.63	152	27541	1.83	mg/L		99
46)	2,6-Dinitrotoluene	9.59	165	4254	1.64	mg/L		91
47)	3-Nitroaniline	9.77	138	3935	1.80	mg/L		93
48)	Acenaphthene	9.86	154	17362	1.93	mg/L		98
49)	2,4-Dinitrophenol	9.89	184	2818	0.78	mg/L		91
50)	4-Nitrophenol	9.94	109	4583	1.38	mg/L		94
51)	Dibenzofuran	10.05	168	26231	1.90	mg/L		95
52)	2,4-Dinitrotoluene	10.08	165	5595	1.67	mg/L	#	83
53)	Fluorene	10.49	166	20886	1.84	mg/L		97
54)	Diethylphthalate	10.37	149	20296	1.84	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.47	204	10932	1.90	mg/L		92
56)	4-Nitroaniline	10.53	138	3452	1.69	mg/L		97
58)	2-Methyl-4,6-dinitrophenol	10.58	198	4978	1.16	mg/L		98
59)	N-Nitrosodiphenylamine	10.62	169	14937	2.15	mg/L		97
60)	Azobenzene	10.66	77	20736	1.93	mg/L		98
62)	4-Bromophenyl phenyl ether	11.07	248	5950	1.86	mg/L		95
63)	Hexachlorobenzene	11.27	284	6483	1.99	mg/L		93
64)	Pentachlorophenol	11.49	266	4715	1.04	mg/L		99
65)	Phenanthrene	11.69	178	31463	1.97	mg/L		98
66)	Anthracene	11.75	178	29468	1.86	mg/L		99
67)	Carbazole	11.95	167	22359	2.22	mg/L		98
68)	Di-n-butylphthalate	12.48	149	28013	1.71	mg/L		100
69)	Fluoranthene	13.44	202	25844	1.72	mg/L		98
71)	Benzidine	13.62	184	16113	2.38	mg/L		97
72)	Pyrene	13.81	202	26343	1.84	mg/L		99
74)	Butylbenzylphthalate	15.02	149	9048	1.65	mg/L		100
75)	3,3'-Dichlorobenzidine	16.01	252	9138	1.63	mg/L	#	95
76)	Benz(a)anthracene	16.04	228	17834	1.86	mg/L		100
77)	Chrysene	16.13	228	17428	1.96	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	16.22	149	10930	1.60	mg/L		98
79)	Mirex	16.92	272	1591	1.59	mg/L		88
81)	Di-n-octylphthalate	17.47	149	12381	1.23	mg/L	#	99
82)	Benzo(b)fluoranthene	18.21	252	11150	1.73	mg/L	#	90
83)	Benzo(k)fluoranthene	18.26	252	11011	1.77	mg/L		93
84)	Benzo(a)pyrene	18.86	252	8209	1.58	mg/L	#	88
85)	Indeno(1,2,3-c,d)pyrene	21.63	276	7461	1.82	mg/L	#	66
86)	Dibenz(a,h)anthracene	21.68	278	6311	1.79	mg/L	#	90
87)	Benzo(g,h,i)perylene	22.40	276	6289	1.89	mg/L	#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061332.D Vial: 5
Acq On : 11 Oct 2006 3:07 pm Operator: SC
Sample : 2PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:34 2006 Quant Results File: BA061011.RES

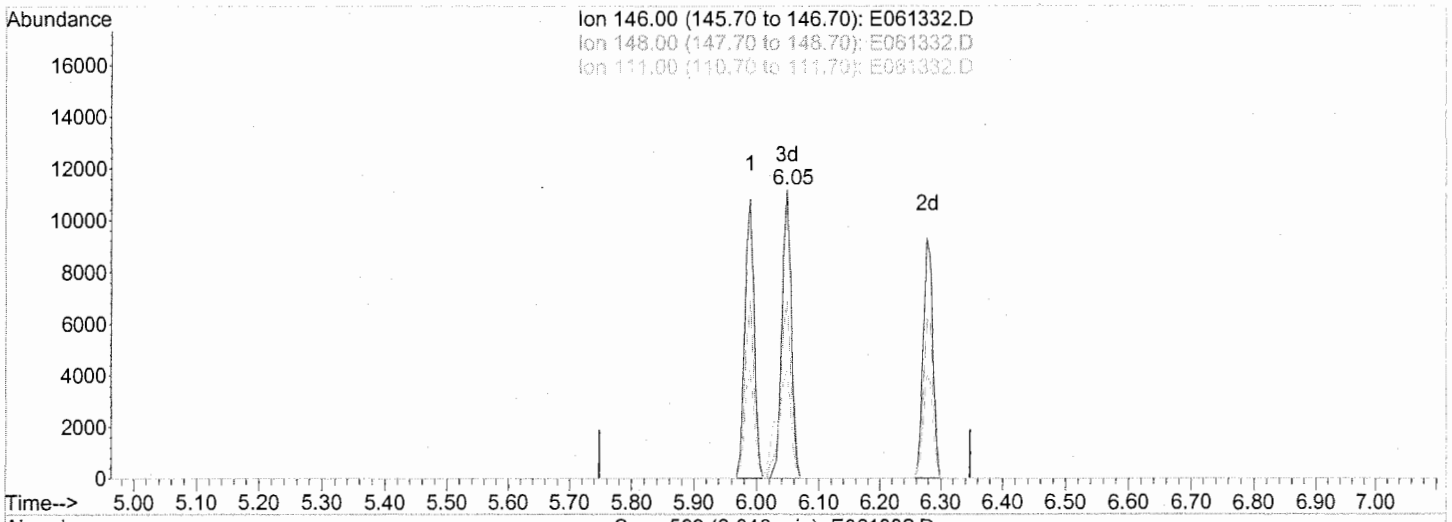
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration

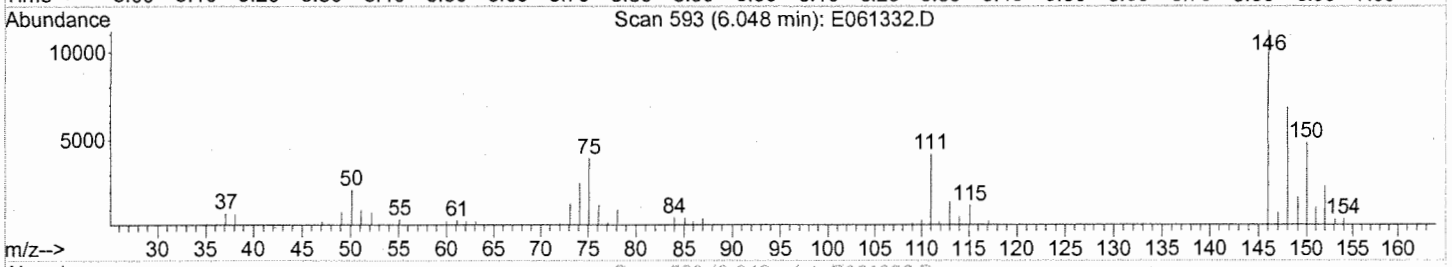


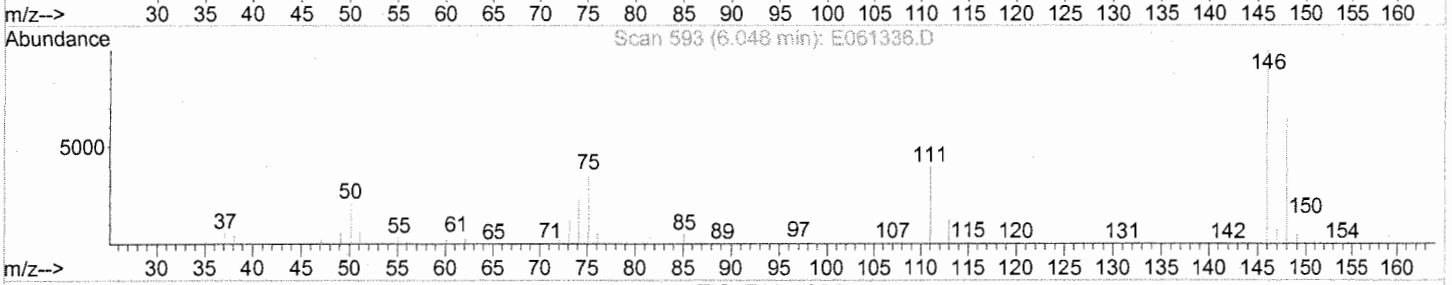
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061332.D Vial: 5
Acq On : 11 Oct 2006 3:07 pm Operator: SC
Sample : 2PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:34 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration







TIC: E061332.D

(13) 1,4-Dichlorobenzene (CMT)

6.05min 1.99mg/L m

response 11712

Ion	Exp%	Act%
146.00	100	100
148.00	65.00	59.18
111.00	39.50	38.23
0.00	0.00	0.00

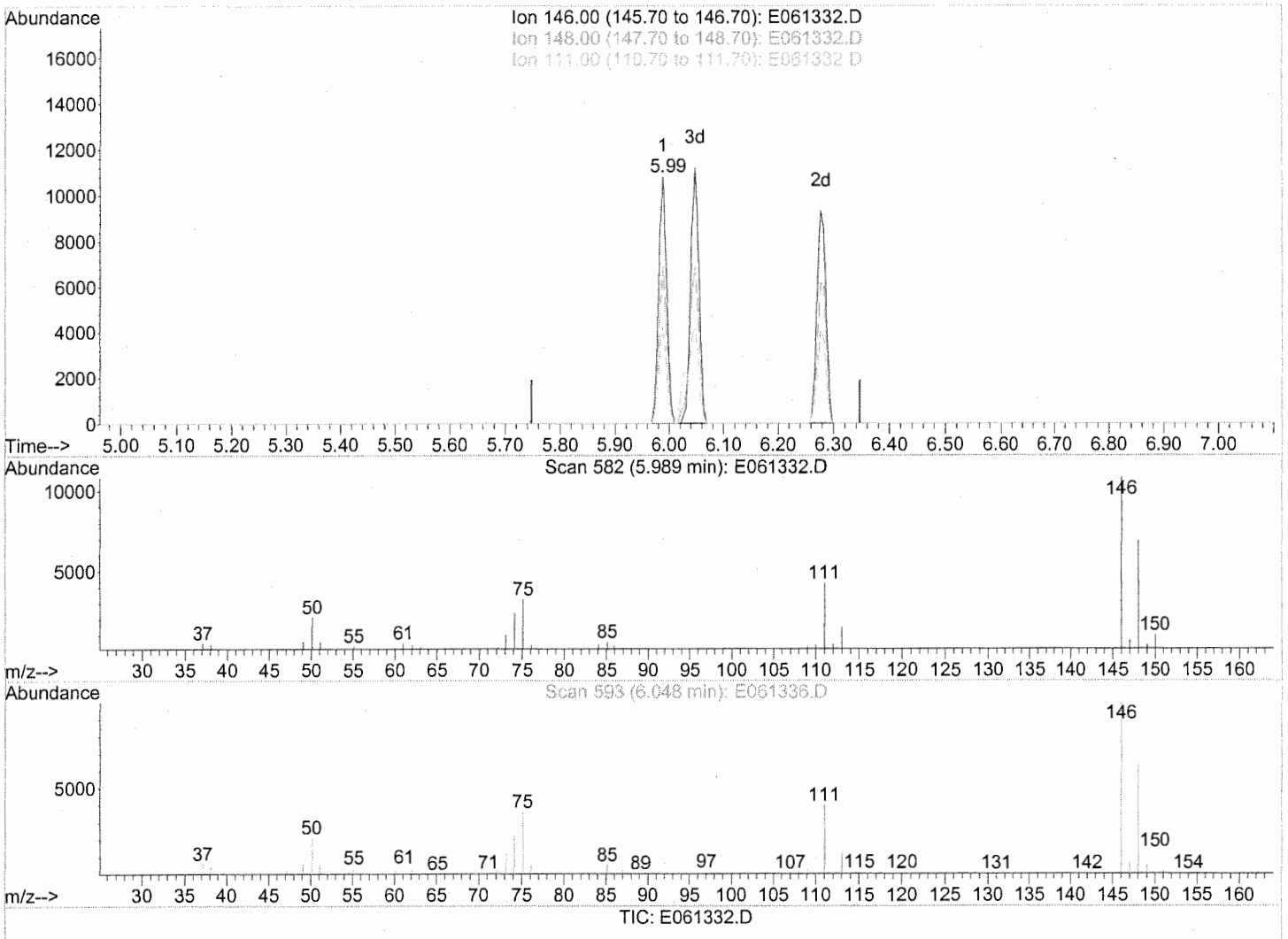
Wrong Peak 10/12/06

10/17/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061332.D Vial: 5
Acq On : 11 Oct 2006 3:07 pm Operator: SC
Sample : 2PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:34 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration



TIC: E061332.D

(13) 1,4-Dichlorobenzene (CMT)

5.99min 1.92mg/L

response 11278

Ion	Exp%	Act%
146.00	100	100
148.00	65.00	61.46
111.00	39.50	39.70
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061332.D Vial: 5
Acq On : 11 Oct 2006 3:07 pm Operator: SC
Sample : 2PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:34:10 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	147602	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	560532	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	352526	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	554715	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	333966	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	188444	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	7412	1.80	mg/L	-0.01
Spiked Amount 50.000			Recovery =	3.60%		
7) Phenol-d5	5.58	99	9962	1.83	mg/L	-0.01
Spiked Amount 50.000			Recovery =	3.66%		
23) Nitrobenzene-d5	6.73	82	9530	1.87	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.74%		
41) 2-Fluorobiphenyl	8.96	172	20869	1.94	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.88%		
61) 2,4,6-Tribromophenol	10.81	330	2220	1.60	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.20%		
73) Terphenyl-d14	14.07	244	16325	1.80	mg/L	0.00
Spiked Amount 50.000			Recovery =	3.60%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	4996	2.03	mg/L	94
3) N-Nitrosodimethylamine	3.33	42	5602	1.94	mg/L	90
4) Pyridine	3.36	79	11660	1.87	mg/L	97
5) PGMEA	4.54	43	13824	1.93	mg/L	96
8) Phenol	5.60	94	11330	1.94	mg/L	91
9) Aniline	5.67	93	13148	1.99	mg/L	97
10) Bis(2-chloroethyl)ether	5.72	93	9476	1.98	mg/L	92
11) 2-Chlorophenol	5.81	128	9104	1.87	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	11278	1.96	mg/L	97
13) 1,4-Dichlorobenzene	5.99	146	11278	1.92	mg/L	97
14) Benzyl alcohol	6.19	108	5368	1.80	mg/L	92
15) 1,2-Dichlorobenzene	6.28	146	10292	1.89	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.25	99	5640	1.82	mg/L	98
17) 2-Methylphenol	6.33	108	8008	1.91	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.38	45	13348	2.00	mg/L	97
19) 4-Methylphenol	6.50	107	10310	1.85	mg/L	98
20) N-Nitrosodi-n-propylamine	6.55	70	6523	1.84	mg/L	96
21) Hexachloroethane	6.66	117	4159	1.87	mg/L	88
24) Nitrobenzene	6.75	77	10678	1.91	mg/L	95
25) Isophorone	7.03	82	17014	1.79	mg/L	99
26) 2-Nitrophenol	7.15	139	4694	1.69	mg/L #	77
27) 2,4-Dimethylphenol	7.16	122	7014	1.64	mg/L	94
28) Benzoic acid	7.22	122	3033	1.08	mg/L	90
29) Bis(2-chloroethoxy)methane	7.29	93	10685	1.91	mg/L #	96
30) 2,4-Dichlorophenol	7.43	162	7941	1.86	mg/L	96
31) 1,2,4-Trichlorobenzene	7.55	180	9709	1.97	mg/L	98
32) Naphthalene	7.63	128	27525	1.96	mg/L	100
33) 4-Chloroaniline	7.71	127	9497	1.86	mg/L	98
34) Hexachlorobutadiene	7.85	225	6026	1.96	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061332.D Vial: 5
Acq On : 11 Oct 2006 3:07 pm Operator: SC
Sample : 2PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:34:10 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

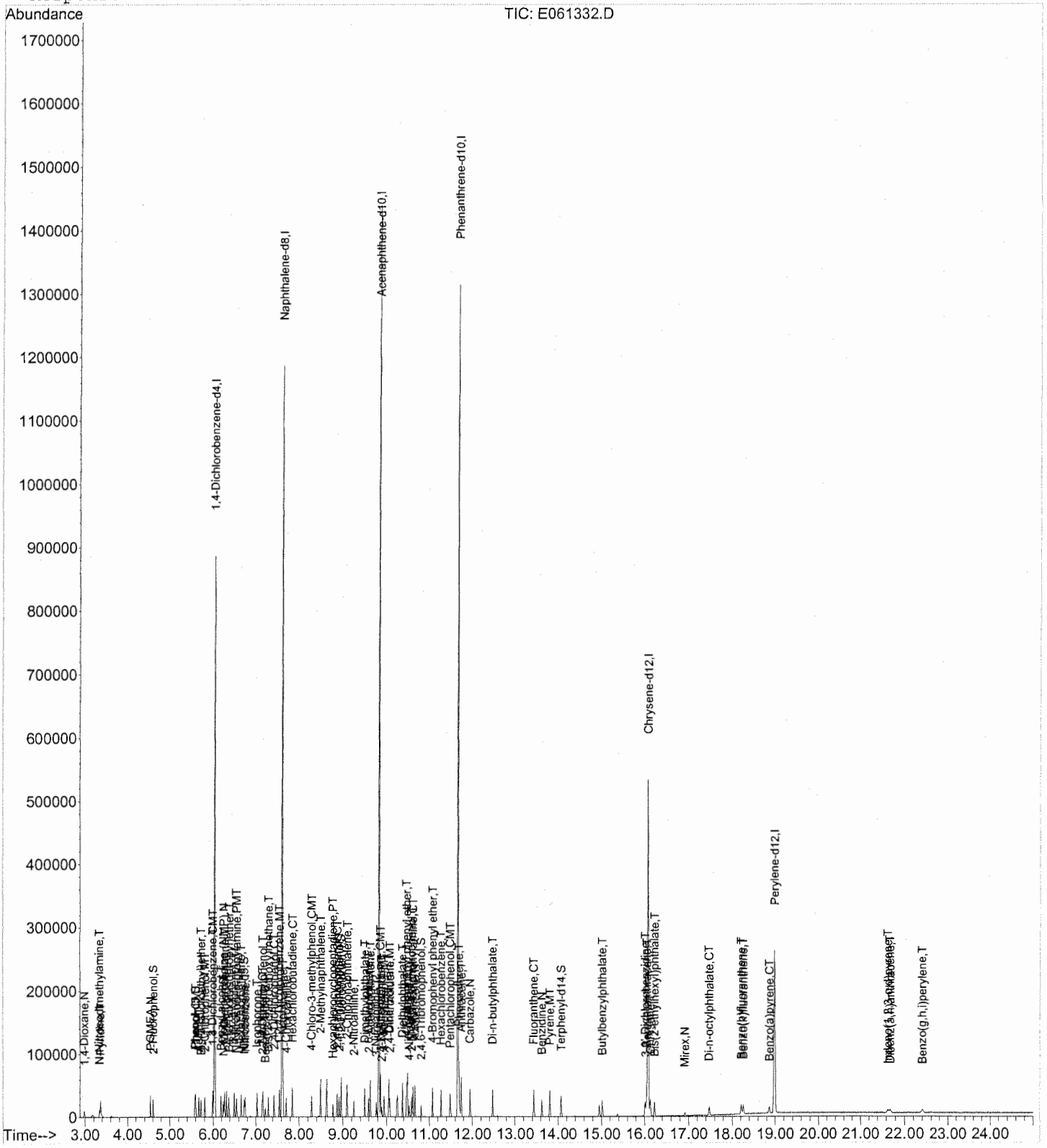
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	7147	1.69	mg/L		97
36)	2-Methylnaphthalene	8.49	142	19143	1.89	mg/L		99
38)	Hexachlorocyclopentadiene	8.77	237	4020	1.24	mg/L		96
39)	2,4,6-Trichlorophenol	8.87	196	5837	1.74	mg/L		97
40)	2,4,5-Trichlorophenol	8.92	196	6231	1.72	mg/L		98
42)	2-Chloronaphthalene	9.10	162	17882	1.92	mg/L		97
43)	2-Nitroaniline	9.25	65	4723	1.64	mg/L		94
44)	Dimethylphthalate	9.50	163	20368	1.87	mg/L		100
45)	Acenaphthylene	9.63	152	27541	1.83	mg/L		99
46)	2,6-Dinitrotoluene	9.59	165	4254	1.64	mg/L		91
47)	3-Nitroaniline	9.77	138	3935	1.80	mg/L		93
48)	Acenaphthene	9.86	154	17362	1.93	mg/L		98
49)	2,4-Dinitrophenol	9.89	184	2818	0.78	mg/L		91
50)	4-Nitrophenol	9.94	109	4583	1.38	mg/L		94
51)	Dibenzofuran	10.05	168	26231	1.90	mg/L		95
52)	2,4-Dinitrotoluene	10.08	165	5595	1.67	mg/L	#	83
53)	Fluorene	10.49	166	20886	1.84	mg/L		97
54)	Diethylphthalate	10.37	149	20296	1.84	mg/L		98
55)	4-Chlorophenyl phenyl ethe	10.47	204	10932	1.90	mg/L		92
56)	4-Nitroaniline	10.53	138	3452	1.69	mg/L		97
58)	2-Methyl-4,6-dinitrophenol	10.58	198	4978	1.16	mg/L		98
59)	N-Nitrosodiphenylamine	10.62	169	14937	2.15	mg/L		97
60)	Azobenzene	10.66	77	20736	1.93	mg/L		98
62)	4-Bromophenyl phenyl ether	11.07	248	5950	1.86	mg/L		95
63)	Hexachlorobenzene	11.27	284	6483	1.99	mg/L		93
64)	Pentachlorophenol	11.49	266	4715	1.04	mg/L		99
65)	Phenanthrene	11.69	178	31463	1.97	mg/L		98
66)	Anthracene	11.75	178	29468	1.86	mg/L		99
67)	Carbazole	11.95	167	22359	2.22	mg/L		98
68)	Di-n-butylphthalate	12.48	149	28013	1.71	mg/L		100
69)	Fluoranthene	13.44	202	25844	1.72	mg/L		98
71)	Benzidine	13.62	184	16113	2.38	mg/L		97
72)	Pyrene	13.81	202	26343	1.84	mg/L		99
74)	Butylbenzylphthalate	15.02	149	9048	1.65	mg/L		100
75)	3,3'-Dichlorobenzidine	16.01	252	9138	1.63	mg/L	#	95
76)	Benz(a)anthracene	16.04	228	17834	1.86	mg/L		100
77)	Chrysene	16.13	228	17428	1.96	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	16.22	149	10930	1.60	mg/L		98
79)	Mirex	16.92	272	1591	1.59	mg/L		88
81)	Di-n-octylphthalate	17.47	149	12381	1.23	mg/L	#	99
82)	Benzo(b)fluoranthene	18.21	252	11150	1.73	mg/L	#	90
83)	Benzo(k)fluoranthene	18.26	252	11011	1.77	mg/L		93
84)	Benzo(a)pyrene	18.86	252	8209	1.58	mg/L	#	88
85)	Indeno(1,2,3-c,d)pyrene	21.63	276	7461	1.82	mg/L	#	66
86)	Dibenz(a,h)anthracene	21.68	278	6311	1.79	mg/L	#	90
87)	Benzo(g,h,i)perylene	22.40	276	6289	1.89	mg/L	#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061332.D Vial: 5
Acq On : 11 Oct 2006 3:07 pm Operator: SC
Sample : 2PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:34 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061333.D Vial: 6
Acq On : 11 Oct 2006 3:39 pm Operator: SC
Sample : 4PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:32:43 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E 10/12/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	149272	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	564071	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	355452	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	567798	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	342797	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	182206	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	15659	3.76	mg/L	-0.01
Spiked Amount 50.000			Recovery =	7.52%		
7) Phenol-d5	5.58	99	21080	3.83	mg/L	-0.01
Spiked Amount 50.000			Recovery =	7.66%		
23) Nitrobenzene-d5	6.73	82	19671	3.84	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.68%		
41) 2-Fluorobiphenyl	8.96	172	42187	3.89	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.78%		
61) 2,4,6-Tribromophenol	10.81	330	4783	3.36	mg/L	0.00
Spiked Amount 50.000			Recovery =	6.72%		
73) Terphenyl-d14	14.07	244	35079	3.77	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.54%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	9819	3.95	mg/L	96
3) N-Nitrosodimethylamine	3.33	42	11742	4.01	mg/L	92
4) Pyridine	3.36	79	24404	3.88	mg/L	99
5) PGMEA	4.54	43	28633	3.94	mg/L	98
8) Phenol	5.60	94	22430	3.79	mg/L	90
9) Aniline	5.67	93	27696	4.15	mg/L	98
10) Bis(2-chloroethyl)ether	5.72	93	19155	3.96	mg/L	95
11) 2-Chlorophenol	5.81	128	18422	3.73	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	22080	3.79	mg/L	100
13) 1,4-Dichlorobenzene	6.05	146	22746	3.83	mg/L	94
14) Benzyl alcohol	6.19	108	11544	3.82	mg/L	92
15) 1,2-Dichlorobenzene	6.28	146	21168	3.84	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.25	99	11655	3.72	mg/L	95
17) 2-Methylphenol	6.33	108	16332	3.86	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.38	45	26546	3.93	mg/L	99
19) 4-Methylphenol	6.50	107	20838	3.70	mg/L	97
20) N-Nitrosodi-n-propylamine	6.55	70	13507	3.77	mg/L	97
21) Hexachloroethane	6.66	117	8862	3.94	mg/L	96
24) Nitrobenzene	6.75	77	21489	3.82	mg/L	95
25) Isophorone	7.03	82	35014	3.67	mg/L	99
26) 2-Nitrophenol	7.15	139	10423	3.74	mg/L #	87
27) 2,4-Dimethylphenol	7.16	122	15277	3.56	mg/L	97
28) Benzoic acid	7.23	122	7751	2.74	mg/L	95
29) Bis(2-chloroethoxy)methane	7.29	93	21453	3.82	mg/L	96
30) 2,4-Dichlorophenol	7.43	162	15840	3.68	mg/L	96
31) 1,2,4-Trichlorobenzene	7.55	180	19633	3.96	mg/L	95
32) Naphthalene	7.63	128	54980	3.88	mg/L	99
33) 4-Chloroaniline	7.70	127	20050	3.90	mg/L	98
34) Hexachlorobutadiene	7.85	225	11553	3.73	mg/L	98

(#) = qualifier out of range (m) = manual integration

G 10/17/06

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061333.D Vial: 6
Acq On : 11 Oct 2006 3:39 pm Operator: SC
Sample : 4PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:32:43 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

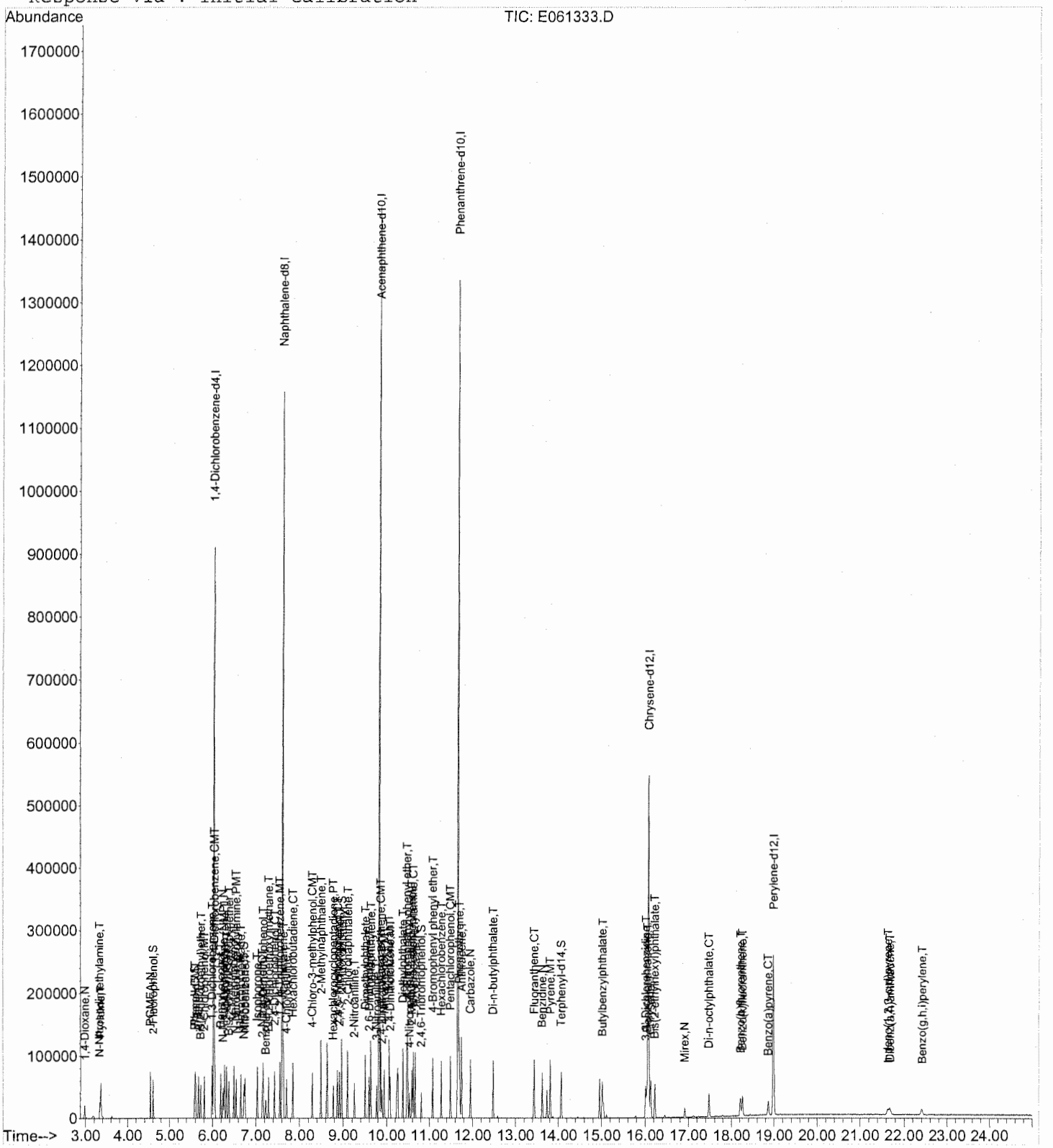
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35) 4-Chloro-3-methylphenol	8.29	107	15489	3.63	mg/L		100
36) 2-Methylnaphthalene	8.49	142	38683	3.79	mg/L		99
38) Hexachlorocyclopentadiene	8.78	237	10050	3.08	mg/L		99
39) 2,4,6-Trichlorophenol	8.87	196	12483	3.69	mg/L		99
40) 2,4,5-Trichlorophenol	8.92	196	13402	3.66	mg/L		97
42) 2-Chloronaphthalene	9.10	162	36095	3.84	mg/L		99
43) 2-Nitroaniline	9.25	65	10330	3.56	mg/L		98
44) Dimethylphthalate	9.50	163	42319	3.85	mg/L		99
45) Acenaphthylene	9.63	152	58016	3.83	mg/L		99
46) 2,6-Dinitrotoluene	9.59	165	9527	3.63	mg/L		96
47) 3-Nitroaniline	9.77	138	8441	3.84	mg/L		90
48) Acenaphthene	9.86	154	35719	3.94	mg/L		100
49) 2,4-Dinitrophenol	9.89	184	7909	2.17	mg/L		93
50) 4-Nitrophenol	9.94	109	10878	3.26	mg/L		94
51) Dibenzofuran	10.05	168	53505	3.83	mg/L		94
52) 2,4-Dinitrotoluene	10.08	165	12155	3.60	mg/L	#	85
53) Fluorene	10.49	166	42683	3.73	mg/L		98
54) Diethylphthalate	10.37	149	41770	3.76	mg/L		97
55) 4-Chlorophenyl phenyl ethe	10.47	204	22176	3.81	mg/L		95
56) 4-Nitroaniline	10.53	138	7199	3.50	mg/L		96
58) 2-Methyl-4,6-dinitrophenol	10.58	198	12754	2.91	mg/L		94
59) N-Nitrosodiphenylamine	10.62	169	29740	4.17	mg/L		99
60) Azobenzene	10.66	77	42316	3.85	mg/L		98
62) 4-Bromophenyl phenyl ether	11.07	248	12559	3.83	mg/L		94
63) Hexachlorobenzene	11.28	284	13067	3.93	mg/L		95
64) Pentachlorophenol	11.49	266	12726	2.74	mg/L		100
65) Phenanthrene	11.69	178	63511	3.88	mg/L		99
66) Anthracene	11.75	178	61001	3.76	mg/L		99
67) Carbazole	11.95	167	46330	4.49	mg/L		98
68) Di-n-butylphthalate	12.47	149	61293	3.65	mg/L		99
69) Fluoranthene	13.44	202	57134	3.71	mg/L		99
71) Benzidine	13.62	184	39800	5.72	mg/L		98
72) Pyrene	13.81	202	57386	3.91	mg/L		100
74) Butylbenzylphthalate	15.02	149	21602	3.85	mg/L		99
75) 3,3'-Dichlorobenzidine	16.01	252	18878	3.27	mg/L		99
76) Benz(a)anthracene	16.04	228	36914	3.75	mg/L		98
77) Chrysene	16.12	228	35378	3.88	mg/L		98
78) Bis(2-ethylhexyl)phthalate	16.22	149	25437	3.62	mg/L		99
79) Mirex	16.91	272	3790	3.70	mg/L		99
81) Di-n-octylphthalate	17.47	149	30809	3.15	mg/L		99
82) Benzo(b)fluoranthene	18.22	252	22056	3.53	mg/L	#	96
83) Benzo(k)fluoranthene	18.26	252	23591m	3.93	mg/L		
84) Benzo(a)pyrene	18.86	252	17792	3.53	mg/L	#	97
85) Indeno(1,2,3-c,d)pyrene	21.64	276	13670	3.44	mg/L	#	81
86) Dibenz(a,h)anthracene	21.69	278	11947	3.50	mg/L	#	86
87) Benzo(g,h,i)perylene	22.41	276	11939	3.70	mg/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061333.D Vial: 6
Acq On : 11 Oct 2006 3:39 pm Operator: SC
Sample : 4PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:33 2006 Quant Results File: BA061011.RES

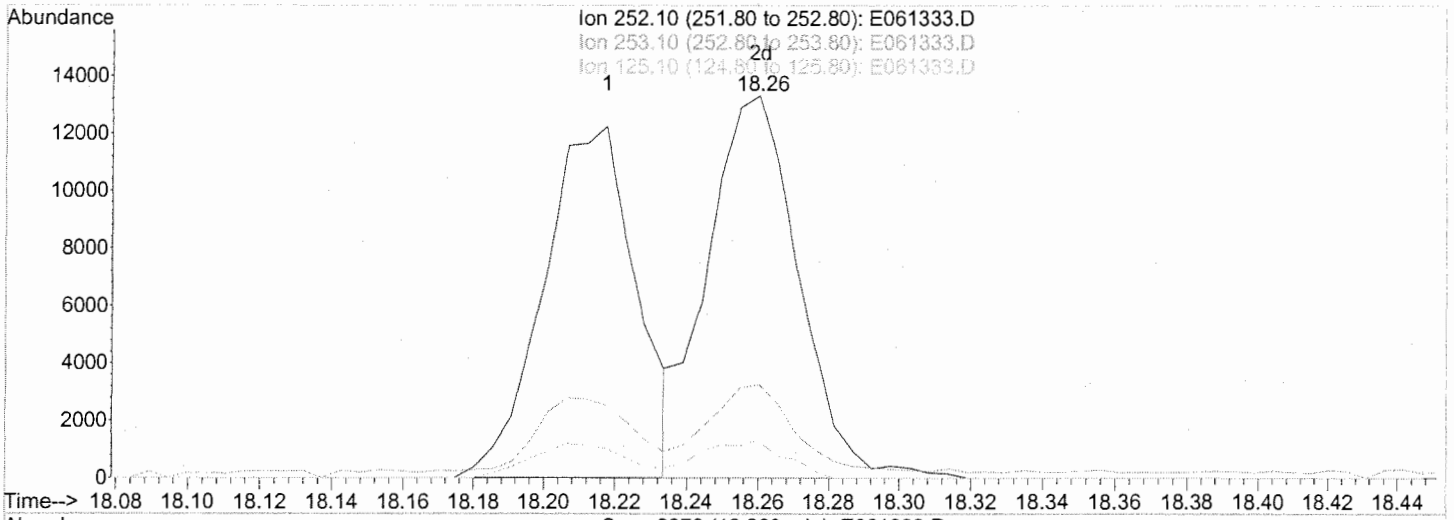
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration

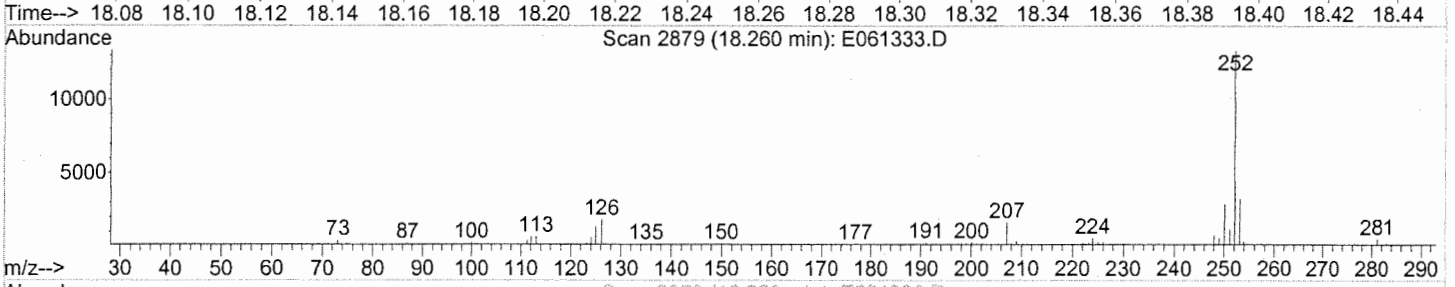


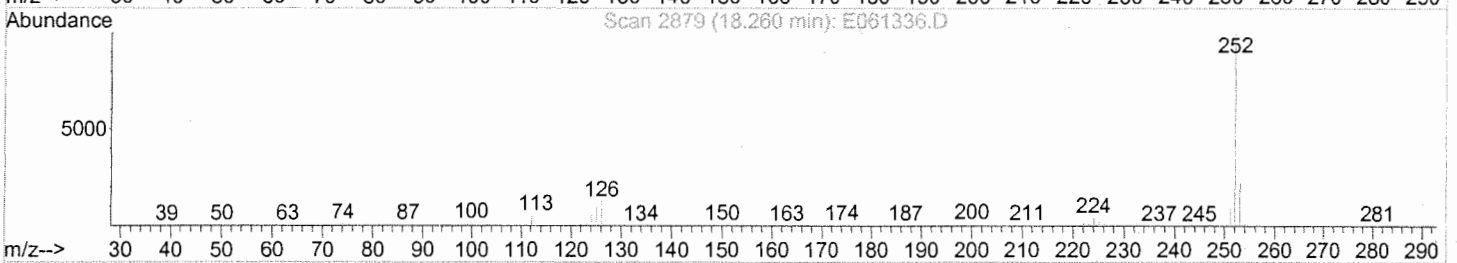
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061333.D Vial: 6
Acq On : 11 Oct 2006 3:39 pm Operator: SC
Sample : 4PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:33 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration







TIC: E061333.D

(83) Benzo(k)fluoranthene (T)

18.26min 3.93mg/L m

response 23591

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	21.89
125.10	11.60	9.44
0.00	0.00	0.00

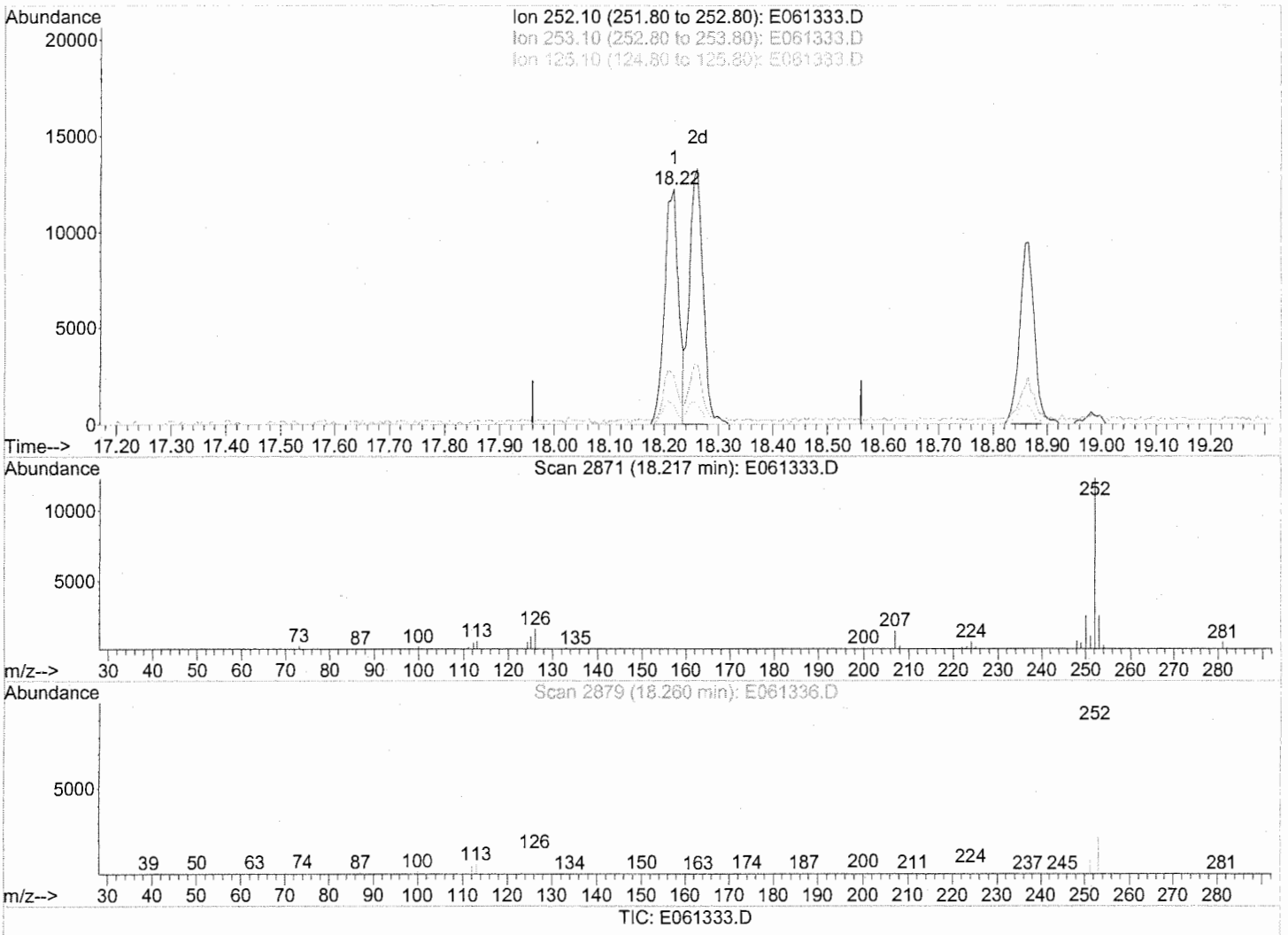
Wrong Peak
10/12/06

10/17/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061333.D Vial: 6
Acq On : 11 Oct 2006 3:39 pm Operator: SC
Sample : 4PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:32 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration



TIC: E061333.D

(83) Benzo(k)fluoranthene (T)

18.22min 3.67mg/L

response 22056

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	23.41
125.10	11.60	10.10
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061333.D Vial: 6
Acq On : 11 Oct 2006 3:39 pm Operator: SC
Sample : 4PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:32:43 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	149272	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	564071	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	355452	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	567798	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	342797	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	182206	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	15659	3.76	mg/L	-0.01
Spiked Amount 50.000			Recovery =	7.52%		
7) Phenol-d5	5.58	99	21080	3.83	mg/L	-0.01
Spiked Amount 50.000			Recovery =	7.66%		
23) Nitrobenzene-d5	6.73	82	19671	3.84	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.68%		
41) 2-Fluorobiphenyl	8.96	172	42187	3.89	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.78%		
61) 2,4,6-Tribromophenol	10.81	330	4783	3.36	mg/L	0.00
Spiked Amount 50.000			Recovery =	6.72%		
73) Terphenyl-d14	14.07	244	35079	3.77	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.54%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	9819	3.95	mg/L	96
3) N-Nitrosodimethylamine	3.33	42	11742	4.01	mg/L	92
4) Pyridine	3.36	79	24404	3.88	mg/L	99
5) PGMEA	4.54	43	28633	3.94	mg/L	98
8) Phenol	5.60	94	22430	3.79	mg/L	90
9) Aniline	5.67	93	27696	4.15	mg/L	98
10) Bis(2-chloroethyl)ether	5.72	93	19155	3.96	mg/L	95
11) 2-Chlorophenol	5.81	128	18422	3.73	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	22080	3.79	mg/L	100
13) 1,4-Dichlorobenzene	6.05	146	22746	3.83	mg/L	94
14) Benzyl alcohol	6.19	108	11544	3.82	mg/L	92
15) 1,2-Dichlorobenzene	6.28	146	21168	3.84	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.25	99	11655	3.72	mg/L	95
17) 2-Methylphenol	6.33	108	16332	3.86	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.38	45	26546	3.93	mg/L	99
19) 4-Methylphenol	6.50	107	20838	3.70	mg/L	97
20) N-Nitrosodi-n-propylamine	6.55	70	13507	3.77	mg/L	97
21) Hexachloroethane	6.66	117	8862	3.94	mg/L	96
24) Nitrobenzene	6.75	77	21489	3.82	mg/L	95
25) Isophorone	7.03	82	35014	3.67	mg/L	99
26) 2-Nitrophenol	7.15	139	10423	3.74	mg/L #	87
27) 2,4-Dimethylphenol	7.16	122	15277	3.56	mg/L	97
28) Benzoic acid	7.23	122	7751	2.74	mg/L	95
29) Bis(2-chloroethoxy)methane	7.29	93	21453	3.82	mg/L	96
30) 2,4-Dichlorophenol	7.43	162	15840	3.68	mg/L	96
31) 1,2,4-Trichlorobenzene	7.55	180	19633	3.96	mg/L	95
32) Naphthalene	7.63	128	54980	3.88	mg/L	99
33) 4-Chloroaniline	7.70	127	20050	3.90	mg/L	98
34) Hexachlorobutadiene	7.85	225	11553	3.73	mg/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061333.D Vial: 6
Acq On : 11 Oct 2006 3:39 pm Operator: SC
Sample : 4PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:32:43 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

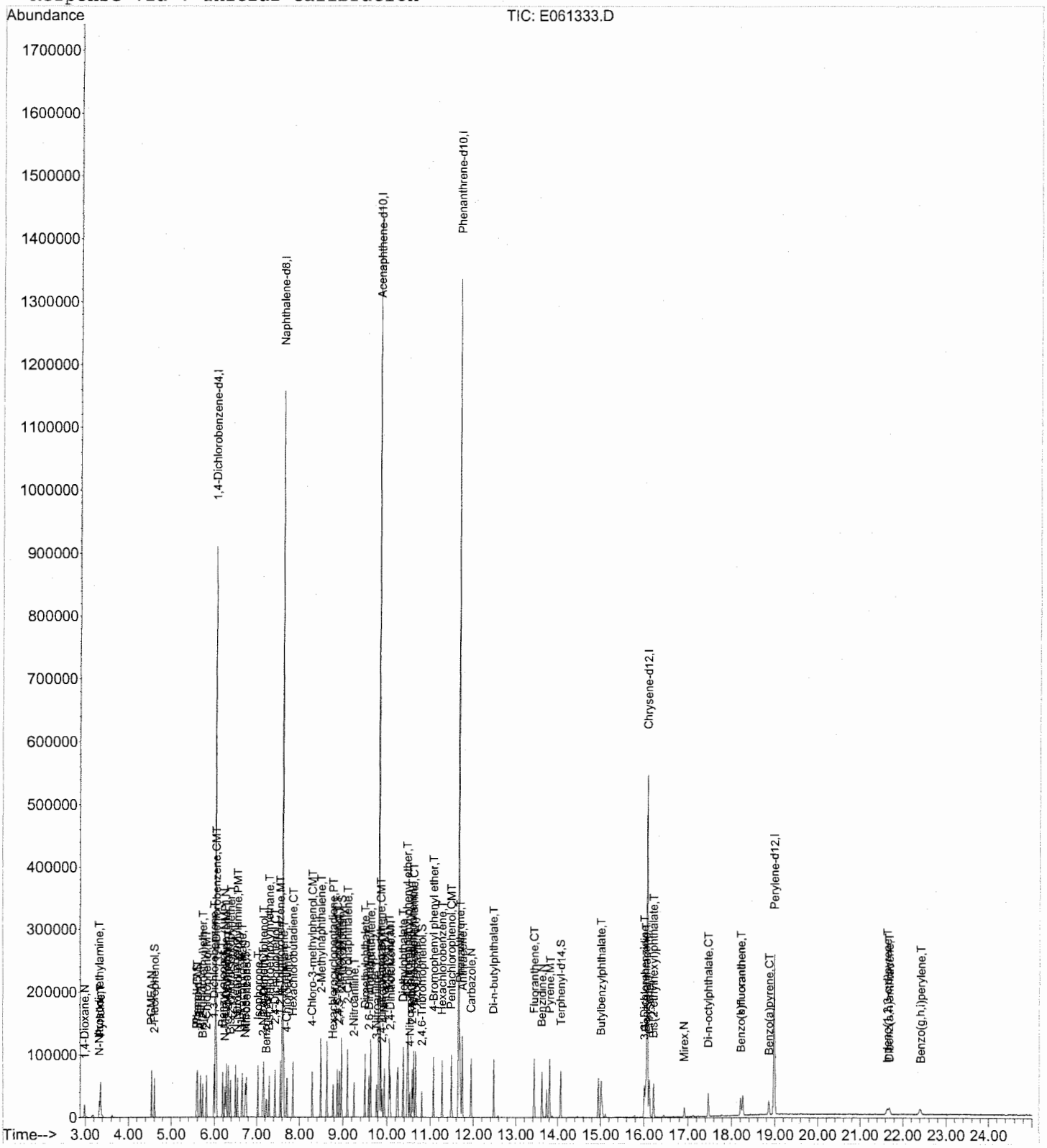
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	15489	3.63	mg/L		100
36)	2-Methylnaphthalene	8.49	142	38683	3.79	mg/L		99
38)	Hexachlorocyclopentadiene	8.78	237	10050	3.08	mg/L		99
39)	2,4,6-Trichlorophenol	8.87	196	12483	3.69	mg/L		99
40)	2,4,5-Trichlorophenol	8.92	196	13402	3.66	mg/L		97
42)	2-Chloronaphthalene	9.10	162	36095	3.84	mg/L		99
43)	2-Nitroaniline	9.25	65	10330	3.56	mg/L		98
44)	Dimethylphthalate	9.50	163	42319	3.85	mg/L		99
45)	Acenaphthylene	9.63	152	58016	3.83	mg/L		99
46)	2,6-Dinitrotoluene	9.59	165	9527	3.63	mg/L		96
47)	3-Nitroaniline	9.77	138	8441	3.84	mg/L		90
48)	Acenaphthene	9.86	154	35719	3.94	mg/L		100
49)	2,4-Dinitrophenol	9.89	184	7909	2.17	mg/L		93
50)	4-Nitrophenol	9.94	109	10878	3.26	mg/L		94
51)	Dibenzofuran	10.05	168	53505	3.83	mg/L		94
52)	2,4-Dinitrotoluene	10.08	165	12155	3.60	mg/L	#	85
53)	Fluorene	10.49	166	42683	3.73	mg/L		98
54)	Diethylphthalate	10.37	149	41770	3.76	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.47	204	22176	3.81	mg/L		95
56)	4-Nitroaniline	10.53	138	7199	3.50	mg/L		96
58)	2-Methyl-4,6-dinitrophenol	10.58	198	12754	2.91	mg/L		94
59)	N-Nitrosodiphenylamine	10.62	169	29740	4.17	mg/L		99
60)	Azobenzene	10.66	77	42316	3.85	mg/L		98
62)	4-Bromophenyl phenyl ether	11.07	248	12559	3.83	mg/L		94
63)	Hexachlorobenzene	11.28	284	13067	3.93	mg/L		95
64)	Pentachlorophenol	11.49	266	12726	2.74	mg/L		100
65)	Phenanthrene	11.69	178	63511	3.88	mg/L		99
66)	Anthracene	11.75	178	61001	3.76	mg/L		99
67)	Carbazole	11.95	167	46330	4.49	mg/L		98
68)	Di-n-butylphthalate	12.47	149	61293	3.65	mg/L		99
69)	Fluoranthene	13.44	202	57134	3.71	mg/L		99
71)	Benzidine	13.62	184	39800	5.72	mg/L		98
72)	Pyrene	13.81	202	57386	3.91	mg/L		100
74)	Butylbenzylphthalate	15.02	149	21602	3.85	mg/L		99
75)	3,3'-Dichlorobenzidine	16.01	252	18878	3.27	mg/L		99
76)	Benz(a)anthracene	16.04	228	36914	3.75	mg/L		98
77)	Chrysene	16.12	228	35378	3.88	mg/L		98
78)	Bis(2-ethylhexyl)phthalate	16.22	149	25437	3.62	mg/L		99
79)	Mirex	16.91	272	3790	3.70	mg/L		99
81)	Di-n-octylphthalate	17.47	149	30809	3.15	mg/L		99
82)	Benzo(b)fluoranthene	18.22	252	22056	3.53	mg/L	#	96
83)	Benzo(k)fluoranthene	18.22	252	22056	3.67	mg/L		97
84)	Benzo(a)pyrene	18.86	252	17792	3.53	mg/L	#	97
85)	Indeno(1,2,3-c,d)pyrene	21.64	276	13670	3.44	mg/L	#	81
86)	Dibenz(a,h)anthracene	21.69	278	11947	3.50	mg/L	#	86
87)	Benzo(g,h,i)perylene	22.41	276	11939	3.70	mg/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061333.D Vial: 6
Acq On : 11 Oct 2006 3:39 pm Operator: SC
Sample : 4PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:32 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061334.D Vial: 7
Acq On : 11 Oct 2006 4:12 pm Operator: SC
Sample : 10PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:08:17 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E. 10/12/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	156964	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	599262	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	379892	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	603069	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	348425	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	187523	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	41636	9.50	mg/L	0.00
Spiked Amount 50.000			Recovery = 19.00%			
7) Phenol-d5	5.58	99	55790	9.64	mg/L	-0.01
Spiked Amount 50.000			Recovery = 19.28%			
23) Nitrobenzene-d5	6.73	82	52065	9.57	mg/L	0.00
Spiked Amount 50.000			Recovery = 19.14%			
41) 2-Fluorobiphenyl	8.96	172	111860	9.64	mg/L	0.00
Spiked Amount 50.000			Recovery = 19.28%			
61) 2,4,6-Tribromophenol	10.81	330	13793	9.13	mg/L	0.00
Spiked Amount 50.000			Recovery = 18.26%			
73) Terphenyl-d14	14.07	244	91867	9.71	mg/L	0.00
Spiked Amount 50.000			Recovery = 19.42%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	25814	9.88	mg/L	94
3) N-Nitrosodimethylamine	3.33	42	29936	9.73	mg/L	89
4) Pyridine	3.36	79	64330	9.71	mg/L	95
5) PGMEA	4.54	43	74893	9.81	mg/L	97
8) Phenol	5.60	94	60347	9.70	mg/L	90
9) Aniline	5.67	93	70628	10.05	mg/L	99
10) Bis(2-chloroethyl)ether	5.72	93	50138	9.86	mg/L	97
11) 2-Chlorophenol	5.81	128	50088	9.65	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	58830	9.61	mg/L	98
13) 1,4-Dichlorobenzene	6.05	146	61015	9.77	mg/L	98
14) Benzyl alcohol	6.19	108	30878	9.73	mg/L	89
15) 1,2-Dichlorobenzene	6.28	146	55677	9.61	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.26	99	31555	9.57	mg/L	98
17) 2-Methylphenol	6.33	108	43879	9.86	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.38	45	70680	9.96	mg/L	99
19) 4-Methylphenol	6.50	107	56612	9.56	mg/L	96
20) N-Nitrosodi-n-propylamine	6.55	70	36348	9.66	mg/L	96
21) Hexachloroethane	6.66	117	22924	9.70	mg/L	92
24) Nitrobenzene	6.75	77	57636	9.64	mg/L	95
25) Isophorone	7.03	82	97705	9.63	mg/L	99
26) 2-Nitrophenol	7.15	139	27626	9.33	mg/L #	82
27) 2,4-Dimethylphenol	7.16	122	41717	9.15	mg/L	97
28) Benzoic acid	7.26	122	24590	8.18	mg/L	91
29) Bis(2-chloroethoxy)methane	7.29	93	57517	9.64	mg/L	95
30) 2,4-Dichlorophenol	7.43	162	43191	9.45	mg/L	97
31) 1,2,4-Trichlorobenzene	7.55	180	52508	9.97	mg/L	98
32) Naphthalene	7.63	128	147037	9.77	mg/L	96
33) 4-Chloroaniline	7.71	127	47920	8.77	mg/L	98
34) Hexachlorobutadiene	7.85	225	31022	9.44	mg/L	98

(#) = qualifier out of range (m) = manual integration

4/10/17/06

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061334.D Vial: 7
Acq On : 11 Oct 2006 4:12 pm Operator: SC
Sample : 10PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:08:17 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

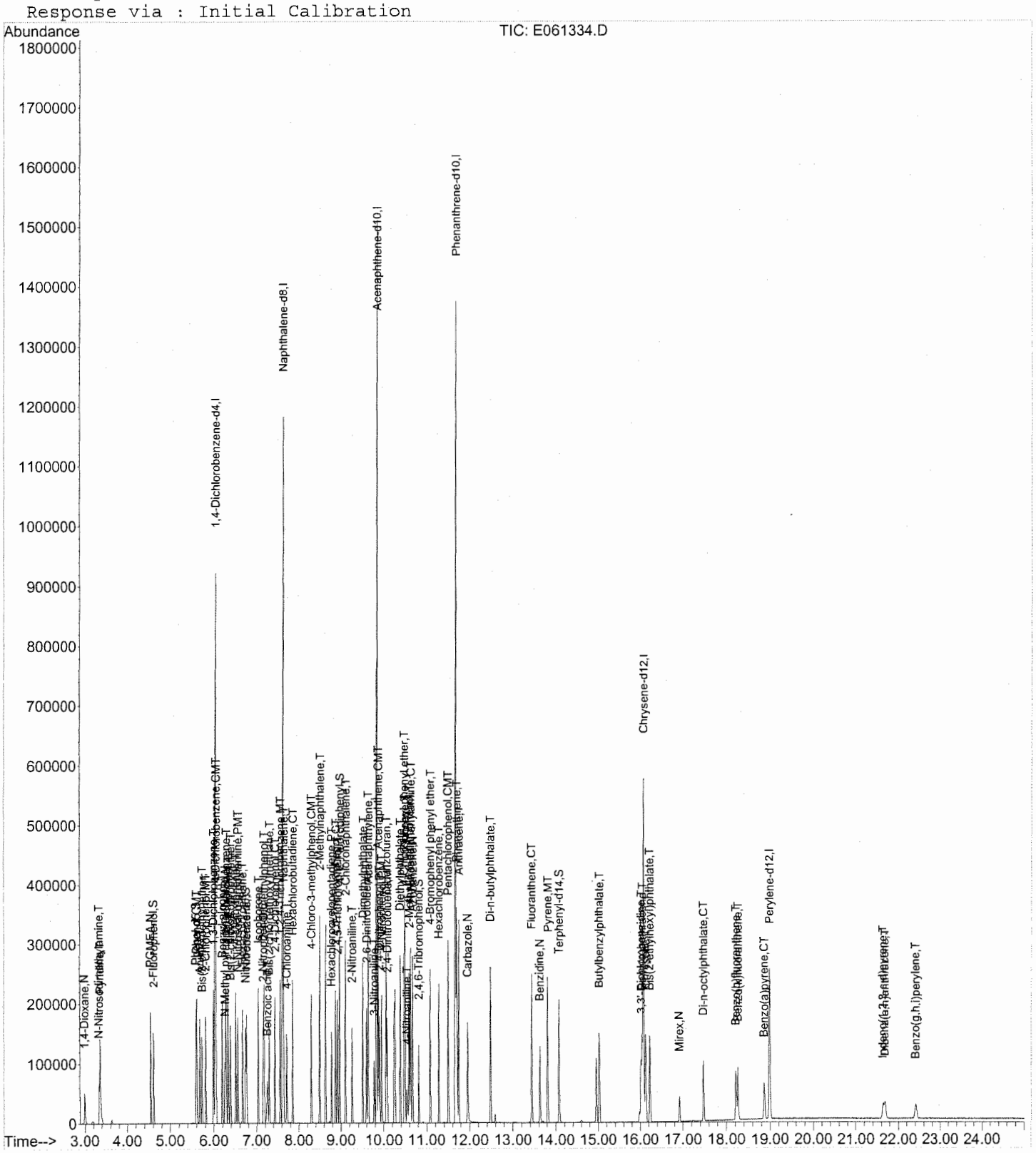
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	42024	9.28	mg/L		99
36)	2-Methylnaphthalene	8.49	142	104457	9.62	mg/L		99
38)	Hexachlorocyclopentadiene	8.78	237	29511	8.46	mg/L		97
39)	2,4,6-Trichlorophenol	8.87	196	33755	9.34	mg/L		99
40)	2,4,5-Trichlorophenol	8.92	196	36552	9.35	mg/L		97
42)	2-Chloronaphthalene	9.10	162	96890	9.64	mg/L		99
43)	2-Nitroaniline	9.25	65	28817	9.28	mg/L		98
44)	Dimethylphthalate	9.50	163	112795	9.61	mg/L		99
45)	Acenaphthylene	9.63	152	155512	9.61	mg/L		100
46)	2,6-Dinitrotoluene	9.59	165	26402	9.42	mg/L		97
47)	3-Nitroaniline	9.77	138	18052	7.68	mg/L		84
48)	Acenaphthene	9.86	154	94763	9.78	mg/L		99
49)	2,4-Dinitrophenol	9.89	184	28989	7.43	mg/L		90
50)	4-Nitrophenol	9.95	109	31308	8.77	mg/L		93
51)	Dibenzofuran	10.06	168	144187	9.67	mg/L		96
52)	2,4-Dinitrotoluene	10.08	165	34063	9.44	mg/L	#	88
53)	Fluorene	10.49	166	114691	9.37	mg/L		98
54)	Diethylphthalate	10.37	149	113791	9.60	mg/L		96
55)	4-Chlorophenyl phenyl ethe	10.47	204	59805	9.62	mg/L		95
56)	4-Nitroaniline	10.54	138	19270	8.77	mg/L		88
58)	2-Methyl-4,6-dinitrophenol	10.59	198	40732	8.74	mg/L		90
59)	N-Nitrosodiphenylamine	10.62	169	78812	10.41	mg/L		99
60)	Azobenzene	10.67	77	115209	9.88	mg/L		98
62)	4-Bromophenyl phenyl ether	11.07	248	33728	9.68	mg/L		95
63)	Hexachlorobenzene	11.28	284	34529	9.77	mg/L		95
64)	Pentachlorophenol	11.49	266	39266	7.95	mg/L		99
65)	Phenanthrene	11.69	178	167252	9.61	mg/L		100
66)	Anthracene	11.75	178	164198	9.52	mg/L		99
67)	Carbazole	11.95	167	92245	8.42	mg/L		100
68)	Di-n-butylphthalate	12.48	149	170291	9.55	mg/L		99
69)	Fluoranthene	13.44	202	149768	9.17	mg/L		98
71)	Benzidine	13.62	184	74225	10.50	mg/L		98
72)	Pyrene	13.81	202	145902	9.77	mg/L		99
74)	Butylbenzylphthalate	15.02	149	54512	9.55	mg/L		98
75)	3,3'-Dichlorobenzidine	16.02	252	38399	6.55	mg/L		97
76)	Benz(a)anthracene	16.04	228	97465	9.73	mg/L		100
77)	Chrysene	16.13	228	90955	9.81	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.22	149	65559	9.19	mg/L		99
79)	Mirex	16.91	272	9766	9.38	mg/L		96
81)	Di-n-octylphthalate	17.47	149	81315	8.09	mg/L		99
82)	Benzo(b)fluoranthene	18.21	252	58266	9.06	mg/L		97
83)	Benzo(k)fluoranthene	18.26	252	60681m	9.82	mg/L		
84)	Benzo(a)pyrene	18.86	252	48038	9.27	mg/L	#	95
85)	Indeno(1,2,3-c,d)pyrene	21.63	276	39484	9.66	mg/L	#	87
86)	Dibenz(a,h)anthracene	21.69	278	33979	9.66	mg/L	#	95
87)	Benzo(g,h,i)perylene	22.40	276	32684	9.85	mg/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061334.D Vial: 7
Acq On : 11 Oct 2006 4:12 pm Operator: SC
Sample : 10PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:09 2006 Quant Results File: BA061011.RES

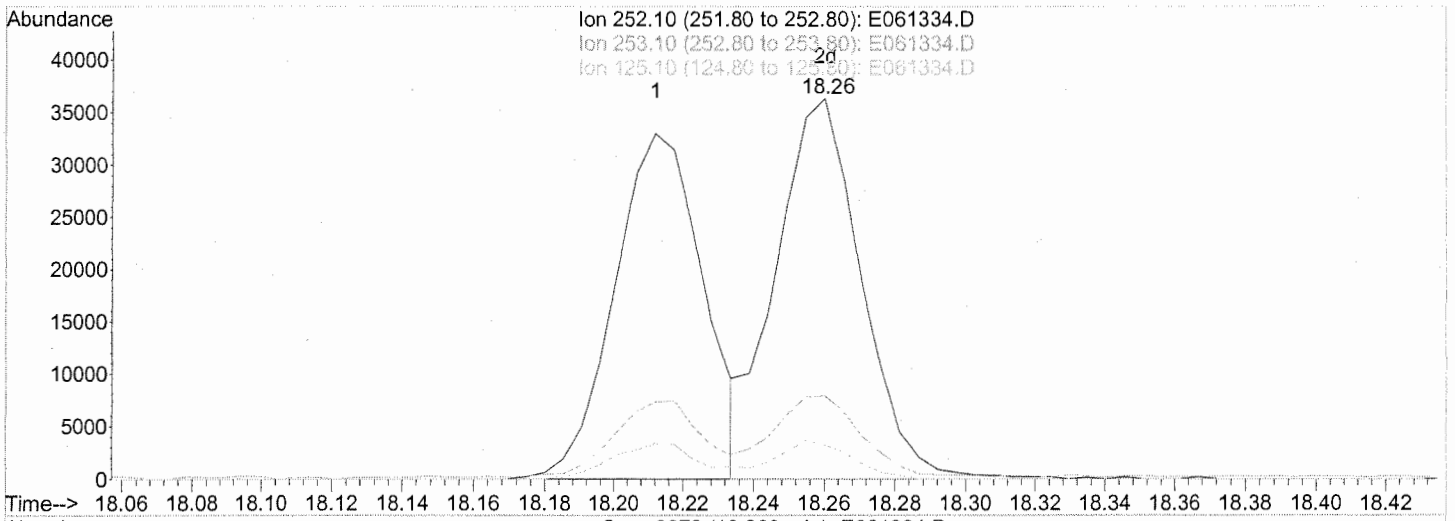
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration

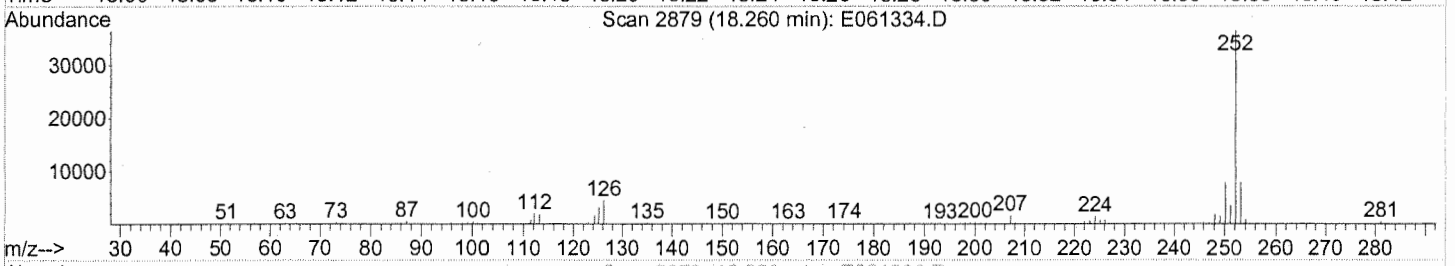


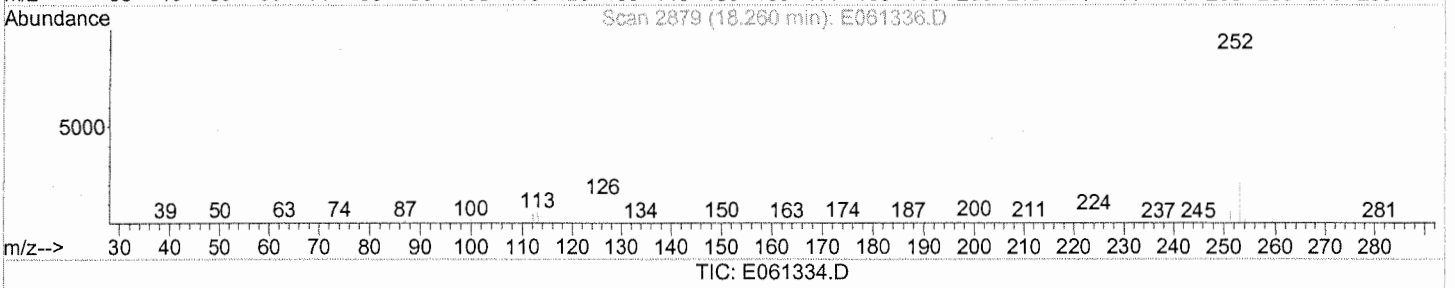
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061334.D Vial: 7
Acq On : 11 Oct 2006 4:12 pm Operator: SC
Sample : 10PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:09 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration







TIC: E061334.D

(83) Benzo(k)fluoranthene (T)

18.26min 9.82mg/L m

response 60681

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	21.45
125.10	11.60	10.22
0.00	0.00	0.00

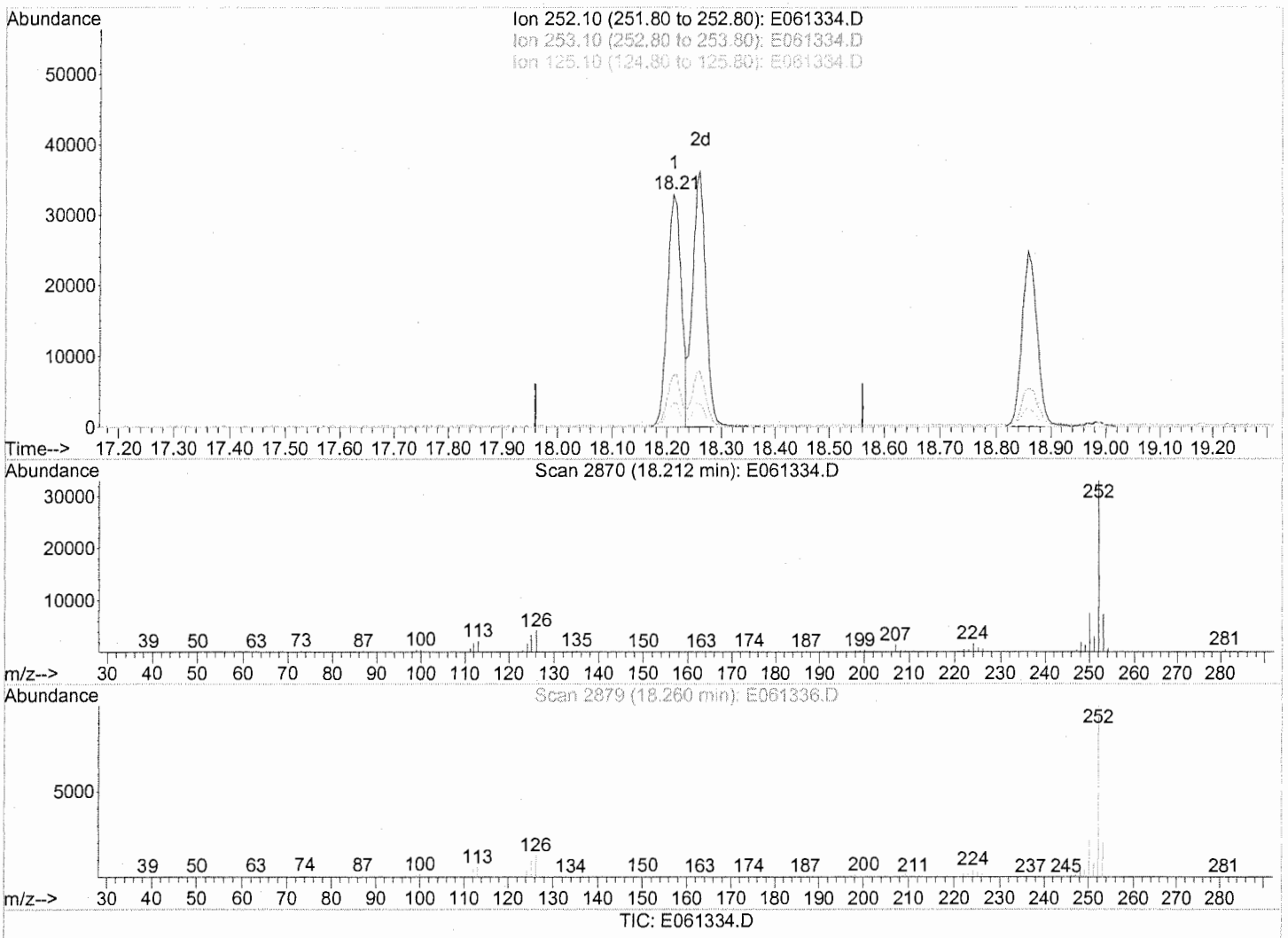
Anthony Pace 10/12/06

10/17/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061334.D Vial: 7
Acq On : 11 Oct 2006 4:12 pm Operator: SC
Sample : 10PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:08 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration



TIC: E061334.D

(83) Benzo(k)fluoranthene (T)

18.21min 9.43mg/L

response 58266

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	22.34
125.10	11.60	10.64
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061334.D Vial: 7
Acq On : 11 Oct 2006 4:12 pm Operator: SC
Sample : 10PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:08:17 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	156964	40.00	mg/L		0.00
22) Naphthalene-d8	7.61	136	599262	40.00	mg/L		0.00
37) Acenaphthene-d10	9.82	164	379892	40.00	mg/L		0.00
57) Phenanthrene-d10	11.66	188	603069	40.00	mg/L		0.00
70) Chrysene-d12	16.08	240	348425	40.00	mg/L		0.00
80) Perylene-d12	18.99	264	187523	40.00	mg/L		0.00
System Monitoring Compounds							
6) 2-Fluorophenol	4.61	112	41636	9.50	mg/L		0.00
Spiked Amount 50.000			Recovery = 19.00%				
7) Phenol-d5	5.58	99	55790	9.64	mg/L		-0.01
Spiked Amount 50.000			Recovery = 19.28%				
23) Nitrobenzene-d5	6.73	82	52065	9.57	mg/L		0.00
Spiked Amount 50.000			Recovery = 19.14%				
41) 2-Fluorobiphenyl	8.96	172	111860	9.64	mg/L		0.00
Spiked Amount 50.000			Recovery = 19.28%				
61) 2,4,6-Tribromophenol	10.81	330	13793	9.13	mg/L		0.00
Spiked Amount 50.000			Recovery = 18.26%				
73) Terphenyl-d14	14.07	244	91867	9.71	mg/L		0.00
Spiked Amount 50.000			Recovery = 19.42%				
Target Compounds							Qvalue
2) 1,4-Dioxane	2.99	88	25814	9.88	mg/L		94
3) N-Nitrosodimethylamine	3.33	42	29936	9.73	mg/L		89
4) Pyridine	3.36	79	64330	9.71	mg/L		95
5) PGMEA	4.54	43	74893	9.81	mg/L		97
8) Phenol	5.60	94	60347	9.70	mg/L		90
9) Aniline	5.67	93	70628	10.05	mg/L		99
10) Bis(2-chloroethyl)ether	5.72	93	50138	9.86	mg/L		97
11) 2-Chlorophenol	5.81	128	50088	9.65	mg/L		99
12) 1,3-Dichlorobenzene	5.99	146	58830	9.61	mg/L		98
13) 1,4-Dichlorobenzene	6.05	146	61015	9.77	mg/L		98
14) Benzyl alcohol	6.19	108	30878	9.73	mg/L		89
15) 1,2-Dichlorobenzene	6.28	146	55677	9.61	mg/L		99
16) N-Methyl pyrrolidine (NMP)	6.26	99	31555	9.57	mg/L		98
17) 2-Methylphenol	6.33	108	43879	9.86	mg/L		98
18) Bis(2-chloroisopropyl)ethe	6.38	45	70680	9.96	mg/L		99
19) 4-Methylphenol	6.50	107	56612	9.56	mg/L		96
20) N-Nitrosodi-n-propylamine	6.55	70	36348	9.66	mg/L		96
21) Hexachloroethane	6.66	117	22924	9.70	mg/L		92
24) Nitrobenzene	6.75	77	57636	9.64	mg/L		95
25) Isophorone	7.03	82	97705	9.63	mg/L		99
26) 2-Nitrophenol	7.15	139	27626	9.33	mg/L	#	82
27) 2,4-Dimethylphenol	7.16	122	41717	9.15	mg/L		97
28) Benzoic acid	7.26	122	24590	8.18	mg/L		91
29) Bis(2-chloroethoxy)methane	7.29	93	57517	9.64	mg/L		95
30) 2,4-Dichlorophenol	7.43	162	43191	9.45	mg/L		97
31) 1,2,4-Trichlorobenzene	7.55	180	52508	9.97	mg/L		98
32) Naphthalene	7.63	128	147037	9.77	mg/L		96
33) 4-Chloroaniline	7.71	127	47920	8.77	mg/L		98
34) Hexachlorobutadiene	7.85	225	31022	9.44	mg/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061334.D Vial: 7
Acq On : 11 Oct 2006 4:12 pm Operator: SC
Sample : 10PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:08:17 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

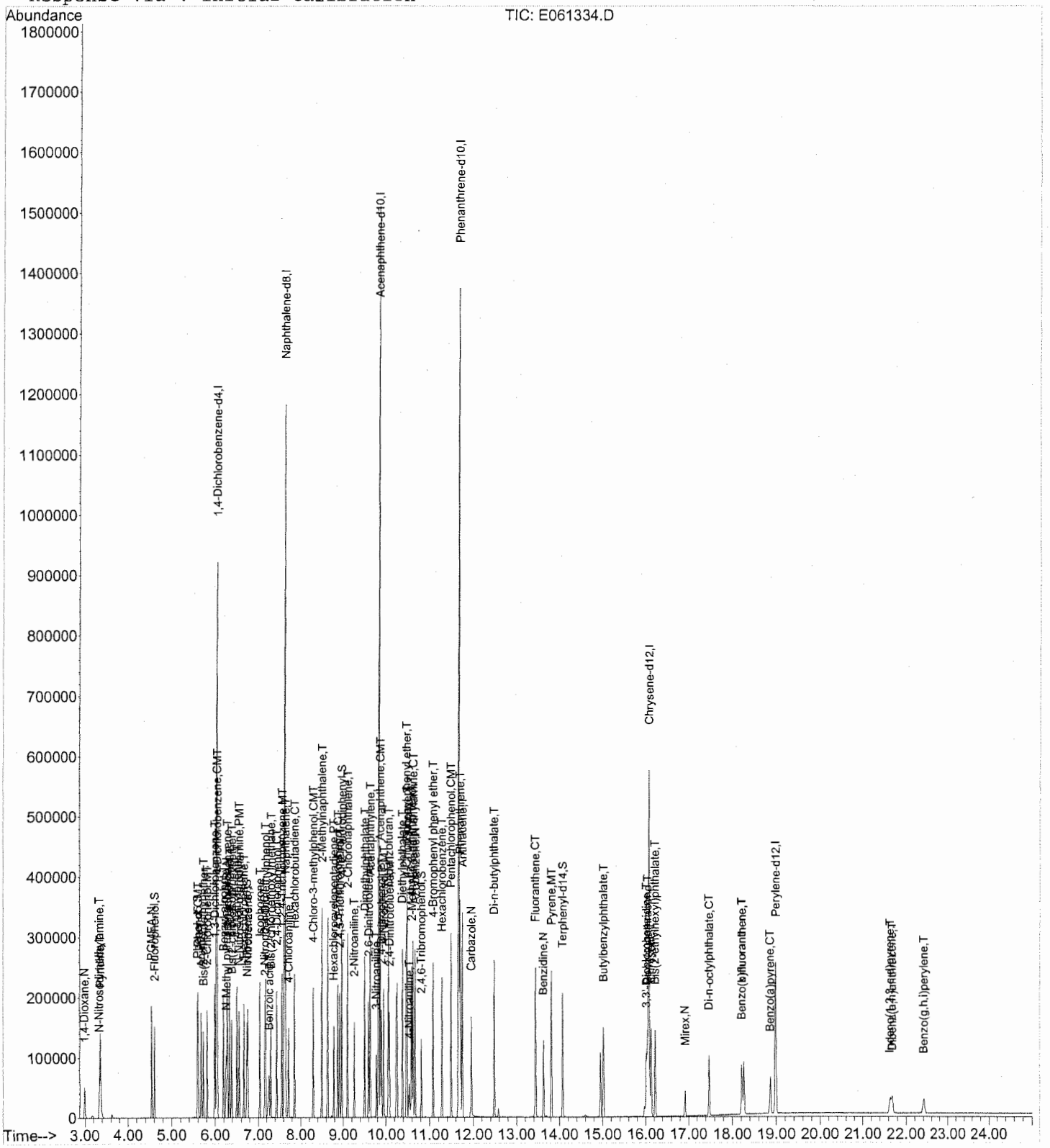
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	42024	9.28	mg/L		99
36)	2-Methylnaphthalene	8.49	142	104457	9.62	mg/L		99
38)	Hexachlorocyclopentadiene	8.78	237	29511	8.46	mg/L		97
39)	2,4,6-Trichlorophenol	8.87	196	33755	9.34	mg/L		99
40)	2,4,5-Trichlorophenol	8.92	196	36552	9.35	mg/L		97
42)	2-Chloronaphthalene	9.10	162	96890	9.64	mg/L		99
43)	2-Nitroaniline	9.25	65	28817	9.28	mg/L		98
44)	Dimethylphthalate	9.50	163	112795	9.61	mg/L		99
45)	Acenaphthylene	9.63	152	155512	9.61	mg/L		100
46)	2,6-Dinitrotoluene	9.59	165	26402	9.42	mg/L		97
47)	3-Nitroaniline	9.77	138	18052	7.68	mg/L		84
48)	Acenaphthene	9.86	154	94763	9.78	mg/L		99
49)	2,4-Dinitrophenol	9.89	184	28989	7.43	mg/L		90
50)	4-Nitrophenol	9.95	109	31308	8.77	mg/L		93
51)	Dibenzofuran	10.06	168	144187	9.67	mg/L		96
52)	2,4-Dinitrotoluene	10.08	165	34063	9.44	mg/L	#	88
53)	Fluorene	10.49	166	114691	9.37	mg/L		98
54)	Diethylphthalate	10.37	149	113791	9.60	mg/L		96
55)	4-Chlorophenyl phenyl ethe	10.47	204	59805	9.62	mg/L		95
56)	4-Nitroaniline	10.54	138	19270	8.77	mg/L		88
58)	2-Methyl-4,6-dinitrophenol	10.59	198	40732	8.74	mg/L		90
59)	N-Nitrosodiphenylamine	10.62	169	78812	10.41	mg/L		99
60)	Azobenzene	10.67	77	115209	9.88	mg/L		98
62)	4-Bromophenyl phenyl ether	11.07	248	33728	9.68	mg/L		95
63)	Hexachlorobenzene	11.28	284	34529	9.77	mg/L		95
64)	Pentachlorophenol	11.49	266	39266	7.95	mg/L		99
65)	Phenanthrene	11.69	178	167252	9.61	mg/L		100
66)	Anthracene	11.75	178	164198	9.52	mg/L		99
67)	Carbazole	11.95	167	92245	8.42	mg/L		100
68)	Di-n-butylphthalate	12.48	149	170291	9.55	mg/L		99
69)	Fluoranthene	13.44	202	149768	9.17	mg/L		98
71)	Benzidine	13.62	184	74225	10.50	mg/L		98
72)	Pyrene	13.81	202	145902	9.77	mg/L		99
74)	Butylbenzylphthalate	15.02	149	54512	9.55	mg/L		98
75)	3,3'-Dichlorobenzidine	16.02	252	38399	6.55	mg/L		97
76)	Benz(a)anthracene	16.04	228	97465	9.73	mg/L		100
77)	Chrysene	16.13	228	90955	9.81	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.22	149	65559	9.19	mg/L		99
79)	Mirex	16.91	272	9766	9.38	mg/L		96
81)	Di-n-octylphthalate	17.47	149	81315	8.09	mg/L		99
82)	Benzo(b)fluoranthene	18.21	252	58266	9.06	mg/L		97
83)	Benzo(k)fluoranthene	18.21	252	58266	9.43	mg/L		99
84)	Benzo(a)pyrene	18.86	252	48038	9.27	mg/L	#	95
85)	Indeno(1,2,3-c,d)pyrene	21.63	276	39484	9.66	mg/L	#	87
86)	Dibenz(a,h)anthracene	21.69	278	33979	9.66	mg/L	#	95
87)	Benzo(g,h,i)perylene	22.40	276	32684	9.85	mg/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061334.D Vial: 7
Acq On : 11 Oct 2006 4:12 pm Operator: SC
Sample : 10PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:08 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061335.D Vial: 8
Acq On : 11 Oct 2006 4:44 pm Operator: SC
Sample : 25PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-6 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:07:06 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

EC 10/12/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	163012	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	616843	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	396841	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	639466	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	399556	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	231654	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	110647	24.30	mg/L	0.00
Spiked Amount 50.000			Recovery = 48.60%			
7) Phenol-d5	5.59	99	148117	24.64	mg/L	0.00
Spiked Amount 50.000			Recovery = 49.28%			
23) Nitrobenzene-d5	6.73	82	138643	24.75	mg/L	0.00
Spiked Amount 50.000			Recovery = 49.50%			
41) 2-Fluorobiphenyl	8.96	172	295446	24.38	mg/L	0.00
Spiked Amount 50.000			Recovery = 48.76%			
61) 2,4,6-Tribromophenol	10.81	330	37756	23.58	mg/L	0.00
Spiked Amount 50.000			Recovery = 47.16%			
73) Terphenyl-d14	14.07	244	261978	24.15	mg/L	0.00
Spiked Amount 50.000			Recovery = 48.30%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	67026	24.69	mg/L	97
3) N-Nitrosodimethylamine	3.33	42	77805	24.35	mg/L	86
4) Pyridine	3.36	79	167555	24.36	mg/L	96
5) PGMEA	4.54	43	196653	24.81	mg/L	98
8) Phenol	5.60	94	157996	24.45	mg/L	90
9) Aniline	5.67	93	178844	24.51	mg/L	99
10) Bis(2-chloroethyl)ether	5.73	93	131202	24.83	mg/L	96
11) 2-Chlorophenol	5.81	128	132646	24.61	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	154093	24.23	mg/L	99
13) 1,4-Dichlorobenzene	6.05	146	157294	24.26	mg/L	100
14) Benzyl alcohol	6.19	108	81539	24.74	mg/L	92
15) 1,2-Dichlorobenzene	6.28	146	147874	24.59	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.28	99	84062	24.55	mg/L	99
17) 2-Methylphenol	6.34	108	115106	24.90	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.38	45	180596	24.50	mg/L	98
19) 4-Methylphenol	6.51	107	149273	24.28	mg/L	97
20) N-Nitrosodi-n-propylamine	6.56	70	95879	24.53	mg/L	95
21) Hexachloroethane	6.66	117	59725	24.33	mg/L	92
24) Nitrobenzene	6.75	77	152163	24.72	mg/L	95
25) Isophorone	7.03	82	255186	24.43	mg/L	99
26) 2-Nitrophenol	7.15	139	74774	24.53	mg/L #	84
27) 2,4-Dimethylphenol	7.17	122	112419	23.96	mg/L	98
28) Benzoic acid	7.29	122	72480	23.41	mg/L	91
29) Bis(2-chloroethoxy)methane	7.29	93	151369	24.65	mg/L	97
30) 2,4-Dichlorophenol	7.44	162	115023	24.44	mg/L	98
31) 1,2,4-Trichlorobenzene	7.55	180	134107	24.73	mg/L	99
32) Naphthalene	7.63	128	384633	24.84	mg/L	100
33) 4-Chloroaniline	7.71	127	137741	24.48	mg/L	97
34) Hexachlorobutadiene	7.85	225	82478	24.37	mg/L	99

(#) = qualifier out of range (m) = manual integration

G 10/17/06

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061335.D Vial: 8
Acq On : 11 Oct 2006 4:44 pm Operator: SC
Sample : 25PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-6 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:07:06 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

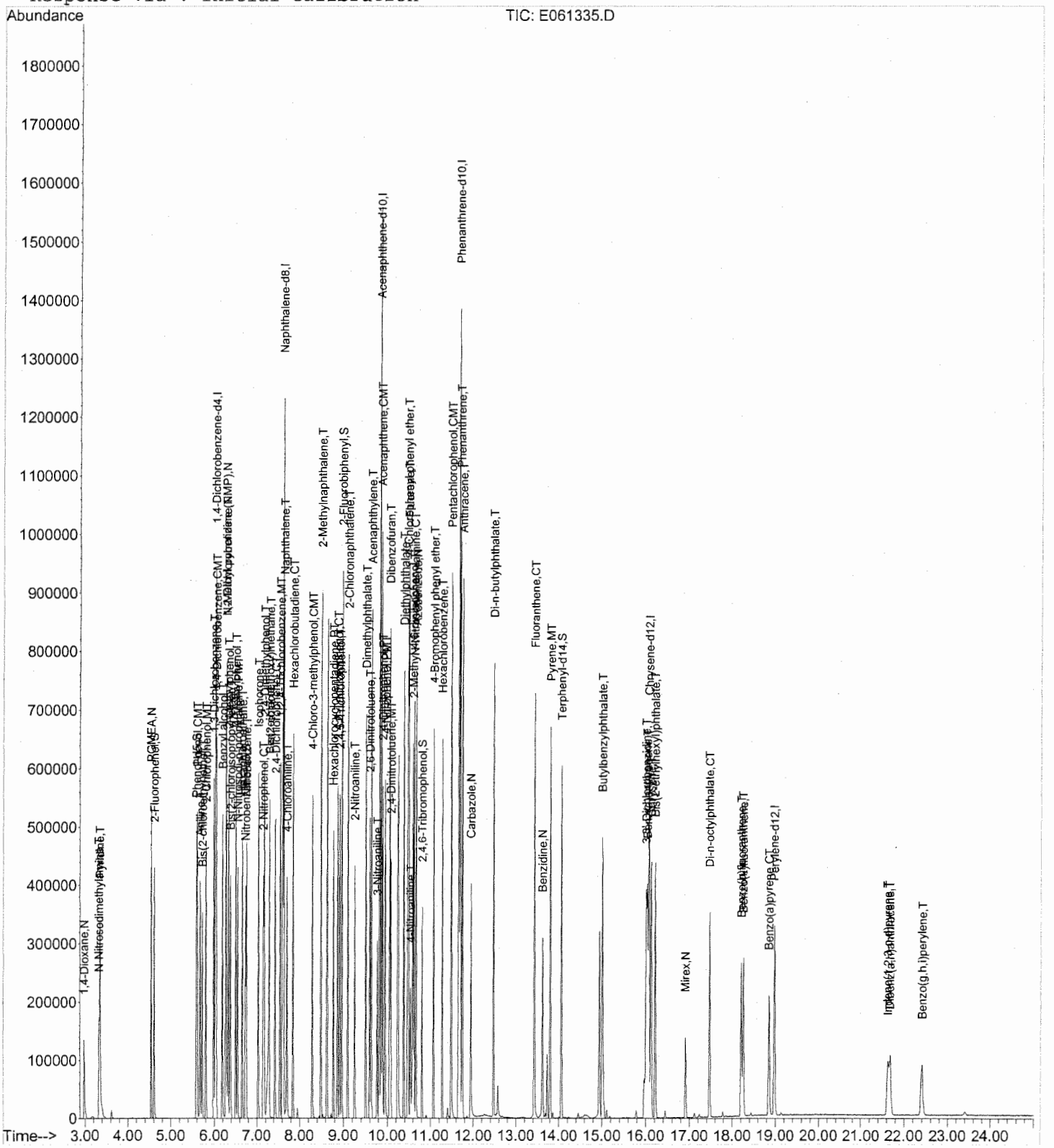
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	113986	24.45	mg/L		99
36)	2-Methylnaphthalene	8.49	142	274853	24.60	mg/L		99
38)	Hexachlorocyclopentadiene	8.77	237	86096	23.62	mg/L		98
39)	2,4,6-Trichlorophenol	8.87	196	90298	23.92	mg/L		99
40)	2,4,5-Trichlorophenol	8.92	196	97089	23.78	mg/L		96
42)	2-Chloronaphthalene	9.10	162	255473	24.33	mg/L		100
43)	2-Nitroaniline	9.25	65	77637	23.94	mg/L		96
44)	Dimethylphthalate	9.50	163	301128	24.55	mg/L		99
45)	Acenaphthylene	9.63	152	411961	24.38	mg/L		100
46)	2,6-Dinitrotoluene	9.59	165	70456	24.07	mg/L		96
47)	3-Nitroaniline	9.77	138	52665	21.44	mg/L		91
48)	Acenaphthene	9.86	154	251555	24.85	mg/L		100
49)	2,4-Dinitrophenol	9.89	184	92939	22.82	mg/L		90
50)	4-Nitrophenol	9.95	109	88019	23.60	mg/L		93
51)	Dibenzofuran	10.06	168	378259	24.28	mg/L		95
52)	2,4-Dinitrotoluene	10.09	165	93046	24.68	mg/L		90
53)	Fluorene	10.49	166	308175	24.10	mg/L		98
54)	Diethylphthalate	10.38	149	305414	24.65	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.47	204	157138	24.20	mg/L		96
56)	4-Nitroaniline	10.54	138	50755	22.11	mg/L		93
58)	2-Methyl-4,6-dinitrophenol	10.59	198	119227	24.13	mg/L		91
59)	N-Nitrosodiphenylamine	10.62	169	188635	23.50	mg/L		100
60)	Azobenzene	10.67	77	308544	24.94	mg/L		98
62)	4-Bromophenyl phenyl ether	11.07	248	89596	24.25	mg/L		94
63)	Hexachlorobenzene	11.27	284	92192	24.60	mg/L		95
64)	Pentachlorophenol	11.49	266	122110	23.32	mg/L		100
65)	Phenanthrene	11.69	178	453288	24.57	mg/L		100
66)	Anthracene	11.75	178	447531	24.47	mg/L		99
67)	Carbazole	11.95	167	223039	19.20	mg/L		100
68)	Di-n-butylphthalate	12.47	149	477665	25.25	mg/L		100
69)	Fluoranthene	13.44	202	424240	24.49	mg/L		99
71)	Benzidine	13.63	184	203124	25.06	mg/L		98
72)	Pyrene	13.81	202	412960	24.12	mg/L		100
74)	Butylbenzylphthalate	15.02	149	164406	25.12	mg/L		98
75)	3,3'-Dichlorobenzidine	16.02	252	129875	19.31	mg/L		99
76)	Benz(a)anthracene	16.04	228	280251	24.41	mg/L		99
77)	Chrysene	16.13	228	260074	24.46	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.22	149	205540	25.13	mg/L		99
79)	Mirex	16.91	272	29824	24.97	mg/L		98
81)	Di-n-octylphthalate	17.47	149	282151	22.71	mg/L		100
82)	Benzo(b)fluoranthene	18.21	252	184587	23.24	mg/L	#	97
83)	Benzo(k)fluoranthene	18.26	252	186081	24.37	mg/L		97
84)	Benzo(a)pyrene	18.86	252	157009	24.52	mg/L	#	95
85)	Indeno(1,2,3-c,d)pyrene	21.63	276	135561	26.85	mg/L		95
86)	Dibenz(a,h)anthracene	21.68	278	114790	26.42	mg/L	#	95
87)	Benzo(g,h,i)perylene	22.41	276	112194	27.38	mg/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061335.D Vial: 8
Acq On : 11 Oct 2006 4:44 pm Operator: SC
Sample : 25PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-6 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:07 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061336.D Vial: 9
Acq On : 11 Oct 2006 5:17 pm Operator: SC
Sample : 50PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-7 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:04:21 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E.C 10/12/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	150260	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	572301	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	364280	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	593161	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	362337	40.00	mg/L	0.00
80) Perylene-d12	18.98	264	192975	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.62	112	209855	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
7) Phenol-d5	5.59	99	277051	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
23) Nitrobenzene-d5	6.74	82	259902	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
41) 2-Fluorobiphenyl	8.96	172	556223	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
61) 2,4,6-Tribromophenol	10.81	330	74272	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
73) Terphenyl-d14	14.07	244	491955	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	125099	50.00	mg/L	96
3) N-Nitrosodimethylamine	3.33	42	147274	50.00	mg/L	87
4) Pyridine	3.35	79	316948	50.00	mg/L	96
5) PGMEA	4.54	43	365358	50.00	mg/L	97
8) Phenol	5.61	94	297874	50.00	mg/L	91
9) Aniline	5.68	93	336236	50.00	mg/L	98
10) Bis(2-chloroethyl)ether	5.73	93	243495	50.00	mg/L	97
11) 2-Chlorophenol	5.81	128	248453	50.00	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	293073	50.00	mg/L	98
13) 1,4-Dichlorobenzene	6.05	146	298844	50.00	mg/L	99
14) Benzyl alcohol	6.20	108	151915	50.00	mg/L	89
15) 1,2-Dichlorobenzene	6.28	146	277210	50.00	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.31	99	157821	50.00	mg/L	99
17) 2-Methylphenol	6.35	108	213045	50.00	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.38	45	339705	50.00	mg/L	98
19) 4-Methylphenol	6.52	107	283304	50.00	mg/L	97
20) N-Nitrosodi-n-propylamine	6.56	70	180167	50.00	mg/L	96
21) Hexachloroethane	6.66	117	113137	50.00	mg/L	92
24) Nitrobenzene	6.76	77	285603	50.00	mg/L	95
25) Isophorone	7.04	82	484629	50.00	mg/L	99
26) 2-Nitrophenol	7.15	139	141382	50.00	mg/L #	83
27) 2,4-Dimethylphenol	7.17	122	217674	50.00	mg/L	98
28) Benzoic acid	7.32	122	143618	50.00	mg/L	91
29) Bis(2-chloroethoxy)methane	7.30	93	284884	50.00	mg/L	97
30) 2,4-Dichlorophenol	7.44	162	218326	50.00	mg/L	97
31) 1,2,4-Trichlorobenzene	7.55	180	251556	50.00	mg/L	98
32) Naphthalene	7.63	128	718321	50.00	mg/L	99
33) 4-Chloroaniline	7.71	127	260983	50.00	mg/L	97
34) Hexachlorobutadiene	7.85	225	156994	50.00	mg/L	99

(#) = qualifier out of range (m) = manual integration

10/17/06

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061336.D Vial: 9
Acq On : 11 Oct 2006 5:17 pm Operator: SC
Sample : 50PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-7 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:04:21 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

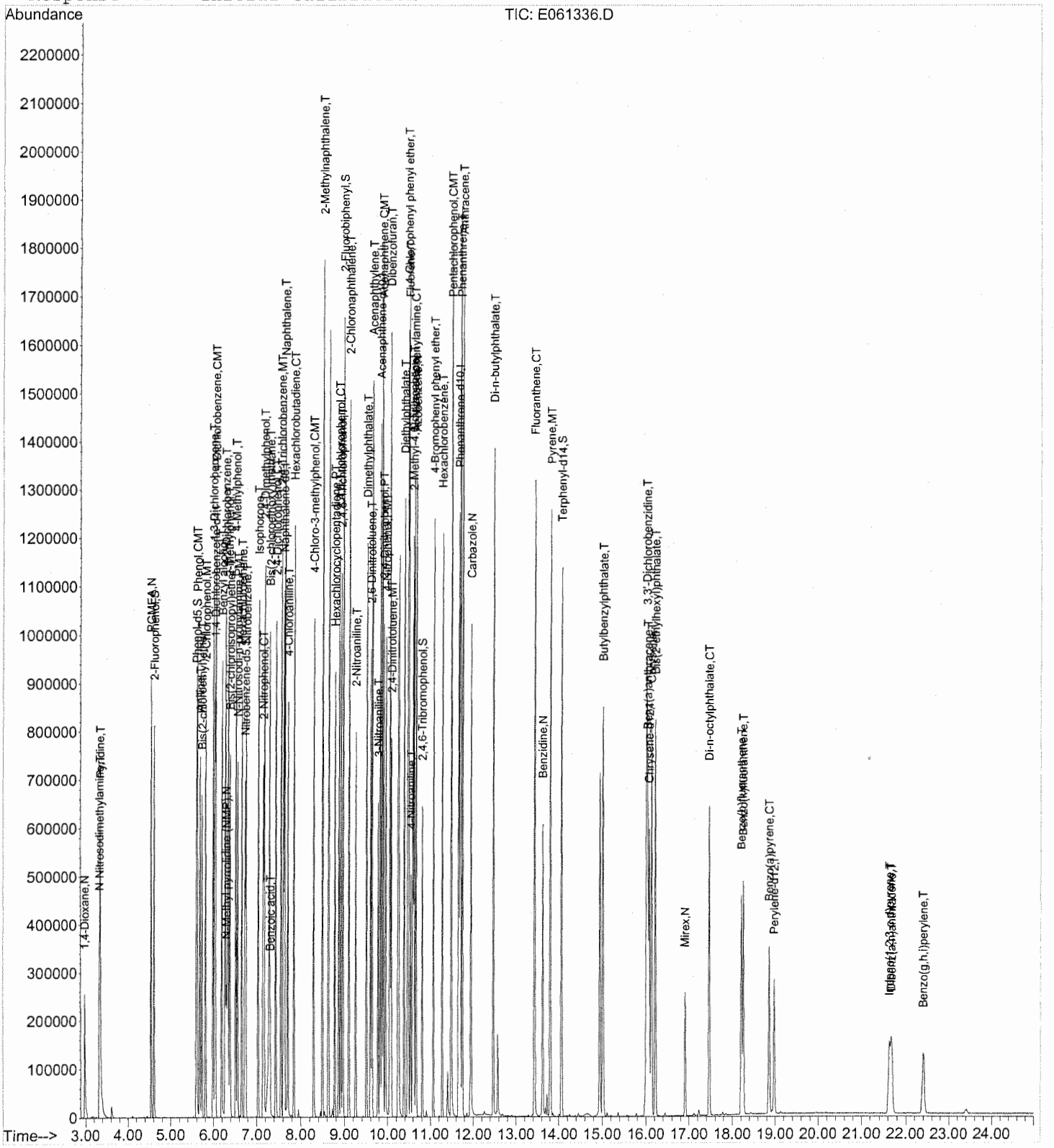
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	216263	50.00	mg/L		99
36)	2-Methylnaphthalene	8.49	142	518304	50.00	mg/L		100
38)	Hexachlorocyclopentadiene	8.77	237	167293	50.00	mg/L		97
39)	2,4,6-Trichlorophenol	8.87	196	173299	50.00	mg/L		100
40)	2,4,5-Trichlorophenol	8.92	196	187379	50.00	mg/L		97
42)	2-Chloronaphthalene	9.10	162	481889	50.00	mg/L		99
43)	2-Nitroaniline	9.26	65	148858	50.00	mg/L		96
44)	Dimethylphthalate	9.51	163	562949	50.00	mg/L		99
45)	Acenaphthylene	9.64	152	775570	50.00	mg/L		99
46)	2,6-Dinitrotoluene	9.60	165	134323	50.00	mg/L		97
47)	3-Nitroaniline	9.78	138	112753	50.00	mg/L		92
48)	Acenaphthene	9.87	154	464629	50.00	mg/L		98
49)	2,4-Dinitrophenol	9.90	184	186959	50.00	mg/L		94
50)	4-Nitrophenol	9.96	109	171152	50.00	mg/L		92
51)	Dibenzofuran	10.06	168	714987	50.00	mg/L		95
52)	2,4-Dinitrotoluene	10.09	165	173056	50.00	mg/L		98
53)	Fluorene	10.49	166	586891	50.00	mg/L		99
54)	Diethylphthalate	10.39	149	568567	50.00	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.47	204	298022	50.00	mg/L		95
56)	4-Nitroaniline	10.55	138	105377	50.00	mg/L		97
58)	2-Methyl-4,6-dinitrophenol	10.60	198	229129	50.00	mg/L		93
59)	N-Nitrosodiphenylamine	10.63	169	372210	50.00	mg/L		91
60)	Azobenzene	10.67	77	573748	50.00	mg/L		98
62)	4-Bromophenyl phenyl ether	11.08	248	171357	50.00	mg/L		94
63)	Hexachlorobenzene	11.28	284	173799	50.00	mg/L		94
64)	Pentachlorophenol	11.49	266	242877	50.00	mg/L		99
65)	Phenanthrene	11.69	178	855521	50.00	mg/L		100
66)	Anthracene	11.75	178	848078	50.00	mg/L		100
67)	Carbazole	11.96	167	538684	50.00	mg/L		100
68)	Di-n-butylphthalate	12.48	149	877365	50.00	mg/L		99
69)	Fluoranthene	13.44	202	803371	50.00	mg/L		98
71)	Benzidine	13.63	184	367538	50.00	mg/L		98
72)	Pyrene	13.82	202	776345	50.00	mg/L		100
74)	Butylbenzylphthalate	15.02	149	296760	50.00	mg/L		97
75)	3,3'-Dichlorobenzidine	16.02	252	304962	50.00	mg/L		98
76)	Benz(a)anthracene	16.04	228	520638	50.00	mg/L		99
77)	Chrysene	16.13	228	482191	50.00	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.22	149	370877	50.00	mg/L		99
79)	Mirex	16.91	272	54161	50.00	mg/L		96
81)	Di-n-octylphthalate	17.47	149	517388	50.00	mg/L		100
82)	Benzo(b)fluoranthene	18.22	252	330833	50.00	mg/L	#	96
83)	Benzo(k)fluoranthene	18.26	252	318001m	50.00	mg/L		
84)	Benzo(a)pyrene	18.86	252	266677	50.00	mg/L	#	96
85)	Indeno(1,2,3-c,d)pyrene	21.64	276	210305	50.00	mg/L	#	88
86)	Dibenz(a,h)anthracene	21.68	278	180935	50.00	mg/L	#	95
87)	Benzo(g,h,i)perylene	22.41	276	170700	50.00	mg/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061336.D Vial: 9
Acq On : 11 Oct 2006 5:17 pm Operator: SC
Sample : 50PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-7 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:06 2006 Quant Results File: BA061011.RES

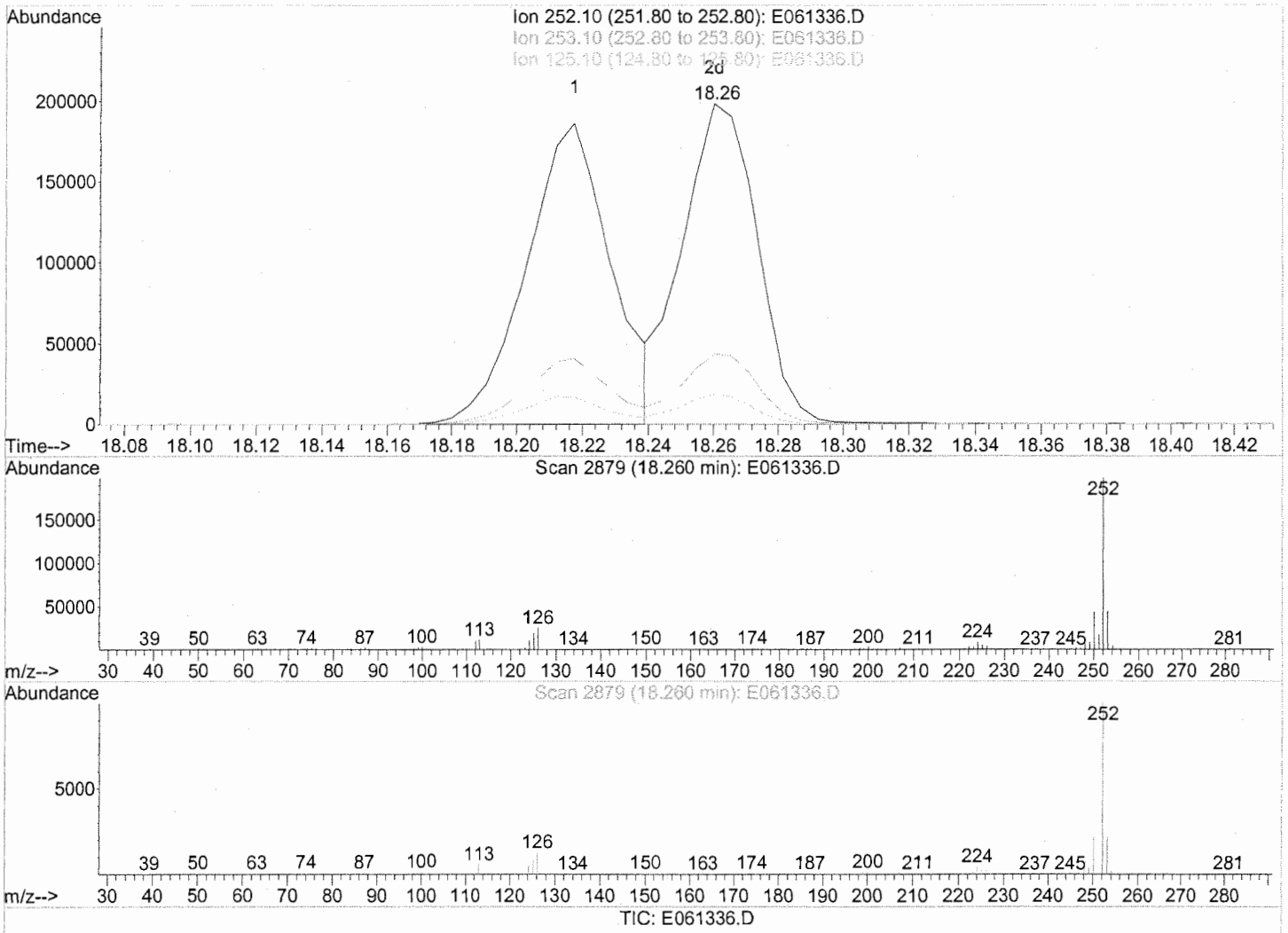
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061336.D Vial: 9
Acq On : 11 Oct 2006 5:17 pm Operator: SC
Sample : 50PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-7 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:06 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration



TIC: E061336.D

(83) Benzo(k)fluoranthene (T)

18.26min 50.00mg/L m

response 318001

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	23.09
125.10	11.60	9.79
0.00	0.00	0.00

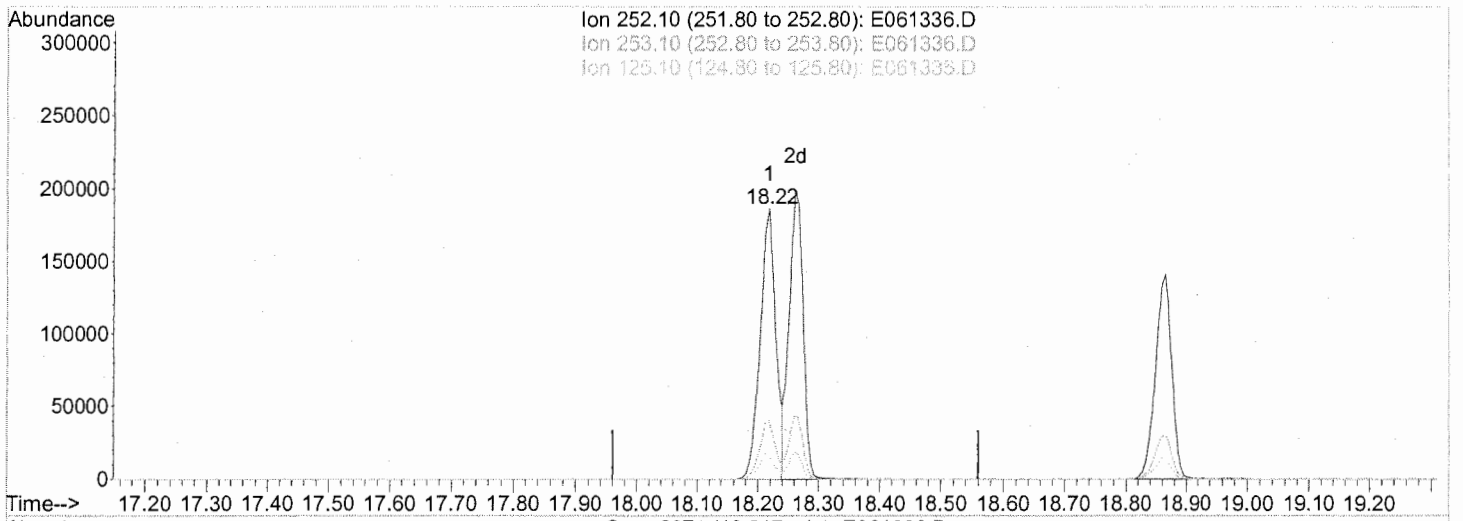
Wrong peak S. 10/12/06

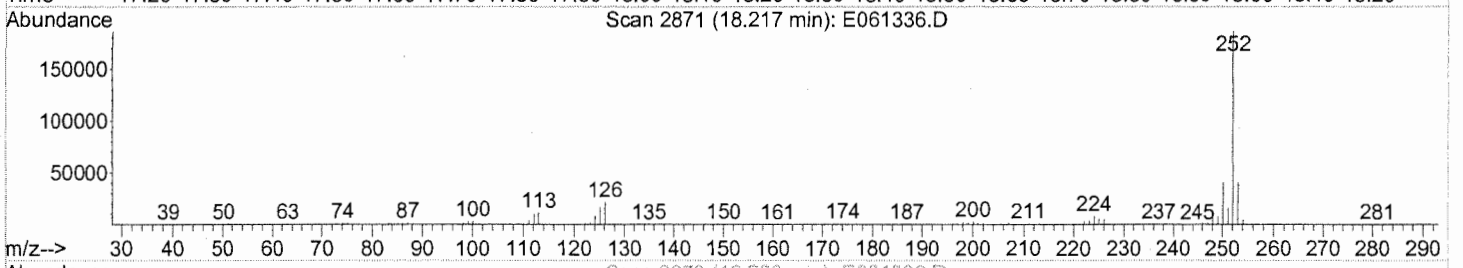
10/17/06

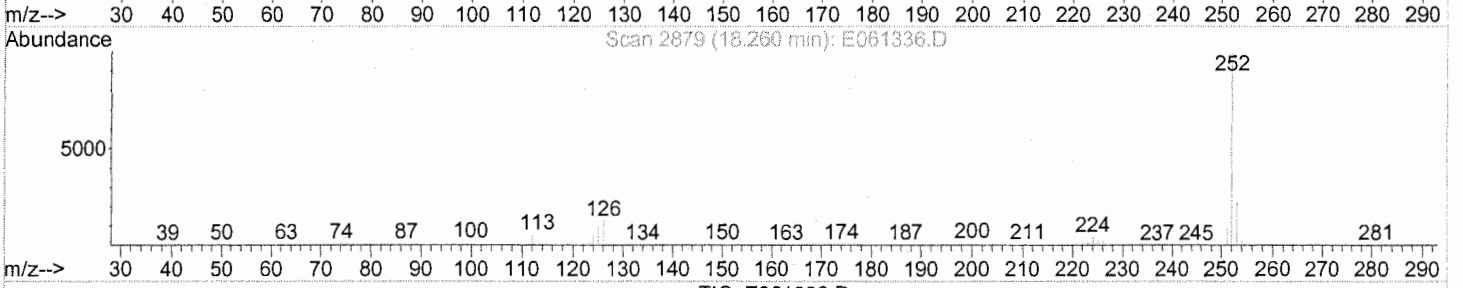
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061336.D Vial: 9
Acq On : 11 Oct 2006 5:17 pm Operator: SC
Sample : 50PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-7 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:04 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration







TIC: E061336.D

(83) Benzo(k)fluoranthene (T)

18.22min 52.02mg/L

response 330833

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	22.19
125.10	11.60	9.41
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061336.D Vial: 9
Acq On : 11 Oct 2006 5:17 pm Operator: SC
Sample : 50PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-7 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:04:21 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	150260	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	572301	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	364280	40.00	mg/L	0.00
57) Phenanthrene-d10	11.66	188	593161	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	362337	40.00	mg/L	0.00
80) Perylene-d12	18.98	264	192975	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.62	112	209855	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
7) Phenol-d5	5.59	99	277051	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
23) Nitrobenzene-d5	6.74	82	259902	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
41) 2-Fluorobiphenyl	8.96	172	556223	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
61) 2,4,6-Tribromophenol	10.81	330	74272	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
73) Terphenyl-d14	14.07	244	491955	50.00	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	125099	50.00	mg/L	96
3) N-Nitrosodimethylamine	3.33	42	147274	50.00	mg/L	87
4) Pyridine	3.35	79	316948	50.00	mg/L	96
5) PGMEA	4.54	43	365358	50.00	mg/L	97
8) Phenol	5.61	94	297874	50.00	mg/L	91
9) Aniline	5.68	93	336236	50.00	mg/L	98
10) Bis(2-chloroethyl)ether	5.73	93	243495	50.00	mg/L	97
11) 2-Chlorophenol	5.81	128	248453	50.00	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	293073	50.00	mg/L	98
13) 1,4-Dichlorobenzene	6.05	146	298844	50.00	mg/L	99
14) Benzyl alcohol	6.20	108	151915	50.00	mg/L	89
15) 1,2-Dichlorobenzene	6.28	146	277210	50.00	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.31	99	157821	50.00	mg/L	99
17) 2-Methylphenol	6.35	108	213045	50.00	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.38	45	339705	50.00	mg/L	98
19) 4-Methylphenol	6.52	107	283304	50.00	mg/L	97
20) N-Nitrosodi-n-propylamine	6.56	70	180167	50.00	mg/L	96
21) Hexachloroethane	6.66	117	113137	50.00	mg/L	92
24) Nitrobenzene	6.76	77	285603	50.00	mg/L	95
25) Isophorone	7.04	82	484629	50.00	mg/L	99
26) 2-Nitrophenol	7.15	139	141382	50.00	mg/L #	83
27) 2,4-Dimethylphenol	7.17	122	217674	50.00	mg/L	98
28) Benzoic acid	7.32	122	143618	50.00	mg/L	91
29) Bis(2-chloroethoxy)methane	7.30	93	284884	50.00	mg/L	97
30) 2,4-Dichlorophenol	7.44	162	218326	50.00	mg/L	97
31) 1,2,4-Trichlorobenzene	7.55	180	251556	50.00	mg/L	98
32) Naphthalene	7.63	128	718321	50.00	mg/L	99
33) 4-Chloroaniline	7.71	127	260983	50.00	mg/L	97
34) Hexachlorobutadiene	7.85	225	156994	50.00	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061336.D Vial: 9
Acq On : 11 Oct 2006 5:17 pm Operator: SC
Sample : 50PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-7 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:04:21 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

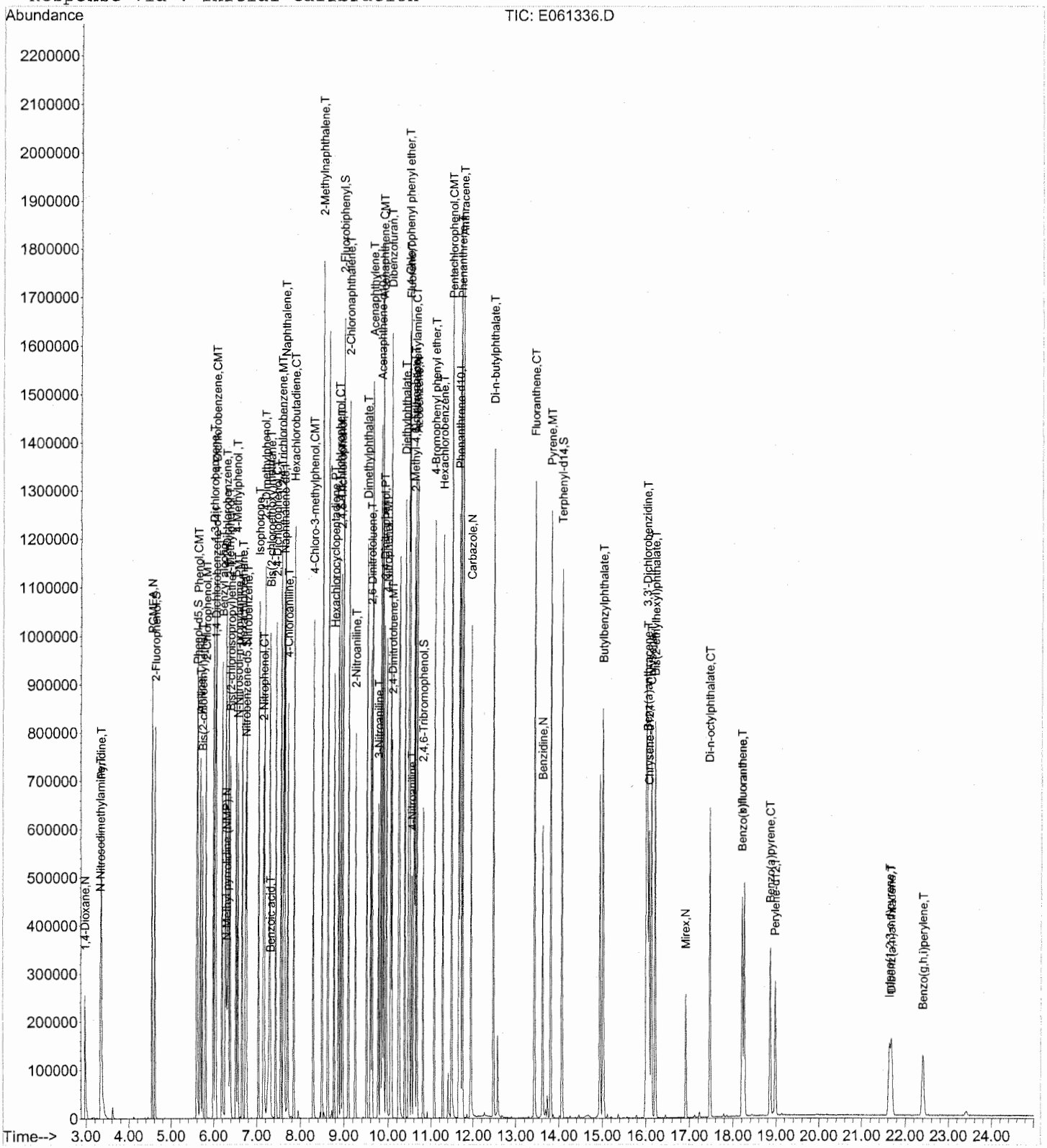
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.29	107	216263	50.00	mg/L		99
36)	2-Methylnaphthalene	8.49	142	518304	50.00	mg/L		100
38)	Hexachlorocyclopentadiene	8.77	237	167293	50.00	mg/L		97
39)	2,4,6-Trichlorophenol	8.87	196	173299	50.00	mg/L		100
40)	2,4,5-Trichlorophenol	8.92	196	187379	50.00	mg/L		97
42)	2-Chloronaphthalene	9.10	162	481889	50.00	mg/L		99
43)	2-Nitroaniline	9.26	65	148858	50.00	mg/L		96
44)	Dimethylphthalate	9.51	163	562949	50.00	mg/L		99
45)	Acenaphthylene	9.64	152	775570	50.00	mg/L		99
46)	2,6-Dinitrotoluene	9.60	165	134323	50.00	mg/L		97
47)	3-Nitroaniline	9.78	138	112753	50.00	mg/L		92
48)	Acenaphthene	9.87	154	464629	50.00	mg/L		98
49)	2,4-Dinitrophenol	9.90	184	186959	50.00	mg/L		94
50)	4-Nitrophenol	9.96	109	171152	50.00	mg/L		92
51)	Dibenzofuran	10.06	168	714987	50.00	mg/L		95
52)	2,4-Dinitrotoluene	10.09	165	173056	50.00	mg/L		98
53)	Fluorene	10.49	166	586891	50.00	mg/L		99
54)	Diethylphthalate	10.39	149	568567	50.00	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.47	204	298022	50.00	mg/L		95
56)	4-Nitroaniline	10.55	138	105377	50.00	mg/L		97
58)	2-Methyl-4,6-dinitrophenol	10.60	198	229129	50.00	mg/L		93
59)	N-Nitrosodiphenylamine	10.63	169	372210	50.00	mg/L		91
60)	Azobenzene	10.67	77	573748	50.00	mg/L		98
62)	4-Bromophenyl phenyl ether	11.08	248	171357	50.00	mg/L		94
63)	Hexachlorobenzene	11.28	284	173799	50.00	mg/L		94
64)	Pentachlorophenol	11.49	266	242877	50.00	mg/L		99
65)	Phenanthrene	11.69	178	855521	50.00	mg/L		100
66)	Anthracene	11.75	178	848078	50.00	mg/L		100
67)	Carbazole	11.96	167	538684	50.00	mg/L		100
68)	Di-n-butylphthalate	12.48	149	877365	50.00	mg/L		99
69)	Fluoranthene	13.44	202	803371	50.00	mg/L		98
71)	Benzidine	13.63	184	367538	50.00	mg/L		98
72)	Pyrene	13.82	202	776345	50.00	mg/L		100
74)	Butylbenzylphthalate	15.02	149	296760	50.00	mg/L		97
75)	3,3'-Dichlorobenzidine	16.02	252	304962	50.00	mg/L		98
76)	Benz(a)anthracene	16.04	228	520638	50.00	mg/L		99
77)	Chrysene	16.13	228	482191	50.00	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.22	149	370877	50.00	mg/L		99
79)	Mirex	16.91	272	54161	50.00	mg/L		96
81)	Di-n-octylphthalate	17.47	149	517388	50.00	mg/L		100
82)	Benzo(b)fluoranthene	18.22	252	330833	50.00	mg/L	#	96
83)	Benzo(k)fluoranthene	18.22	252	330833	52.02	mg/L		98
84)	Benzo(a)pyrene	18.86	252	266677	50.00	mg/L	#	96
85)	Indeno(1,2,3-c,d)pyrene	21.64	276	210305	50.00	mg/L	#	88
86)	Dibenz(a,h)anthracene	21.68	278	180935	50.00	mg/L	#	95
87)	Benzo(g,h,i)perylene	22.41	276	170700	50.00	mg/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061336.D Vial: 9
Acq On : 11 Oct 2006 5:17 pm Operator: SC
Sample : 50PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-7 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:04 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37:24 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/12/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	139984	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	537827	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	340769	40.00	mg/L	0.00
57) Phenanthrene-d10	11.67	188	560407	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	323981	40.00	mg/L	0.00
80) Perylene-d12	18.98	264	163476	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.62	112	272995	69.82	mg/L	0.00
Spiked Amount 50.000			Recovery =	139.64%		
7) Phenol-d5	5.60	99	364874	70.68	mg/L	0.00
Spiked Amount 50.000			Recovery =	141.36%		
23) Nitrobenzene-d5	6.74	82	340915	69.79	mg/L	0.00
Spiked Amount 50.000			Recovery =	139.58%		
41) 2-Fluorobiphenyl	8.97	172	742068	71.31	mg/L	0.00
Spiked Amount 50.000			Recovery =	142.62%		
61) 2,4,6-Tribromophenol	10.81	330	99976	71.24	mg/L	0.00
Spiked Amount 50.000			Recovery =	142.48%		
73) Terphenyl-d14	14.07	244	649709	73.85	mg/L	0.00
Spiked Amount 50.000			Recovery =	147.70%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	160482	68.85	mg/L	97
3) N-Nitrosodimethylamine	3.33	42	190144	69.29	mg/L	87
4) Pyridine	3.35	79	411664	69.71	mg/L	96
5) PGMEA	4.54	43	473978	69.63	mg/L	97
8) Phenol	5.62	94	392033	70.64	mg/L	90
9) Aniline	5.68	93	441188	70.42	mg/L	98
10) Bis(2-chloroethyl)ether	5.73	93	320727	70.69	mg/L	96
11) 2-Chlorophenol	5.82	128	323566	69.90	mg/L	100
12) 1,3-Dichlorobenzene	5.99	146	382177	69.99	mg/L	98
13) 1,4-Dichlorobenzene	6.05	146	388622	69.79	mg/L	99
14) Benzyl alcohol	6.20	108	201043	71.03	mg/L	90
15) 1,2-Dichlorobenzene	6.28	146	361490	69.99	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.33	99	211125m	71.80	mg/L	
17) 2-Methylphenol	6.35	108	284376	71.64	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.39	45	442146	69.86	mg/L	98
19) 4-Methylphenol	6.52	107	371361	70.35	mg/L	97
20) N-Nitrosodi-n-propylamine	6.57	70	237274	70.68	mg/L	95
21) Hexachloroethane	6.66	117	148056	70.24	mg/L	92
24) Nitrobenzene	6.76	77	371344	69.18	mg/L	96
25) Isophorone	7.04	82	636850	69.92	mg/L	99
26) 2-Nitrophenol	7.15	139	186323	70.12	mg/L	95
27) 2,4-Dimethylphenol	7.18	122	287793	70.34	mg/L	98
28) Benzoic acid	7.34	122	193147	71.55	mg/L	90
29) Bis(2-chloroethoxy)methane	7.30	93	375411	70.11	mg/L	97
30) 2,4-Dichlorophenol	7.44	162	285546	69.59	mg/L	97
31) 1,2,4-Trichlorobenzene	7.55	180	331597	70.13	mg/L	99
32) Naphthalene	7.64	128	949683	70.34	mg/L	100
33) 4-Chloroaniline	7.71	127	345468	70.43	mg/L	97
34) Hexachlorobutadiene	7.85	225	207482	70.32	mg/L	99

u 10/17/06

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37:24 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

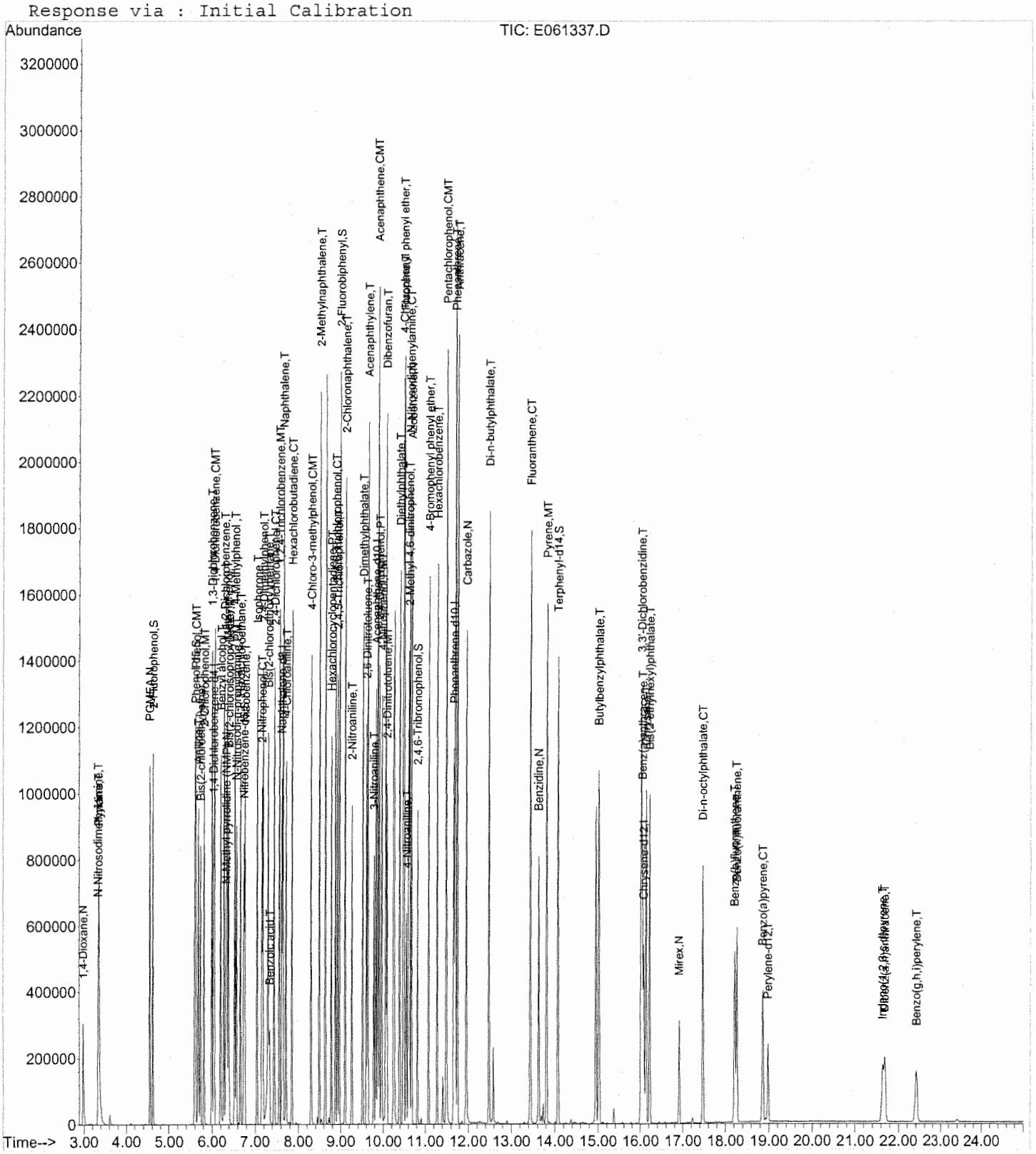
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.30	107	291780	71.78	mg/L		100
36)	2-Methylnaphthalene	8.49	142	689713	70.80	mg/L		99
38)	Hexachlorocyclopentadiene	8.77	237	224126	71.61	mg/L		97
39)	2,4,6-Trichlorophenol	8.87	196	230670	71.14	mg/L		99
40)	2,4,5-Trichlorophenol	8.92	196	248775	70.96	mg/L		97
42)	2-Chloronaphthalene	9.11	162	642599	71.28	mg/L		100
43)	2-Nitroaniline	9.26	65	201335	72.29	mg/L		98
44)	Dimethylphthalate	9.51	163	752434	71.44	mg/L		99
45)	Acenaphthylene	9.64	152	1042076	71.82	mg/L		99
46)	2,6-Dinitrotoluene	9.61	165	175393	69.79	mg/L		95
47)	3-Nitroaniline	9.78	138	160307	75.99	mg/L		94
48)	Acenaphthene	9.87	154	629075	72.37	mg/L		99
49)	2,4-Dinitrophenol	9.90	184	251750	71.97	mg/L		94
50)	4-Nitrophenol	9.97	109	236684	73.91	mg/L		92
51)	Dibenzofuran	10.07	168	954965	71.39	mg/L		94
52)	2,4-Dinitrotoluene	10.10	165	234035	72.28	mg/L		96
53)	Fluorene	10.49	166	791465	72.08	mg/L		98
54)	Diethylphthalate	10.39	149	764923	71.91	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.48	204	396326	71.08	mg/L		95
56)	4-Nitroaniline	10.56	138	143728	72.90	mg/L		96
58)	2-Methyl-4,6-dinitrophenol	10.61	198	313812	72.48	mg/L		93
59)	N-Nitrosodiphenylamine	10.63	169	515778	73.34	mg/L		91
60)	Azobenzene	10.67	77	770049	71.03	mg/L		98
62)	4-Bromophenyl phenyl ether	11.08	248	228325	70.52	mg/L		94
63)	Hexachlorobenzene	11.28	284	235053	71.57	mg/L		94
64)	Pentachlorophenol	11.50	266	337171	73.47	mg/L		98
65)	Phenanthrene	11.70	178	1154025	71.39	mg/L		100
66)	Anthracene	11.76	178	1135411	70.85	mg/L		99
67)	Carbazole	11.96	167	791995	77.81	mg/L		99
68)	Di-n-butylphthalate	12.48	149	1167519	70.42	mg/L		100
69)	Fluoranthene	13.44	202	1063018	70.03	mg/L		98
71)	Benzidine	13.63	184	481678	73.29	mg/L		98
72)	Pyrene	13.82	202	1026796	73.96	mg/L		100
74)	Butylbenzylphthalate	15.02	149	384337	72.42	mg/L		97
75)	3,3'-Dichlorobenzidine	16.02	252	401735	73.66	mg/L		99
76)	Benz(a)anthracene	16.05	228	655482	70.40	mg/L		99
77)	Chrysene	16.13	228	603580	70.00	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.22	149	462906	69.80	mg/L		99
79)	Mirex	16.91	272	67298	69.48	mg/L		95
81)	Di-n-octylphthalate	17.47	149	644721	73.55	mg/L		100
82)	Benzo(b)fluoranthene	18.22	252	389217	69.44	mg/L	#	96
83)	Benzo(k)fluoranthene	18.27	252	383938m	71.26	mg/L		
84)	Benzo(a)pyrene	18.86	252	317459	70.26	mg/L	#	95
85)	Indeno(1,2,3-c,d)pyrene	21.64	276	254535	71.44	mg/L		91
86)	Dibenz(a,h)anthracene	21.69	278	218486	71.27	mg/L	#	94
87)	Benzo(g,h,i)perylene	22.41	276	206933	71.55	mg/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:38 2006 Quant Results File: BA061011.RES

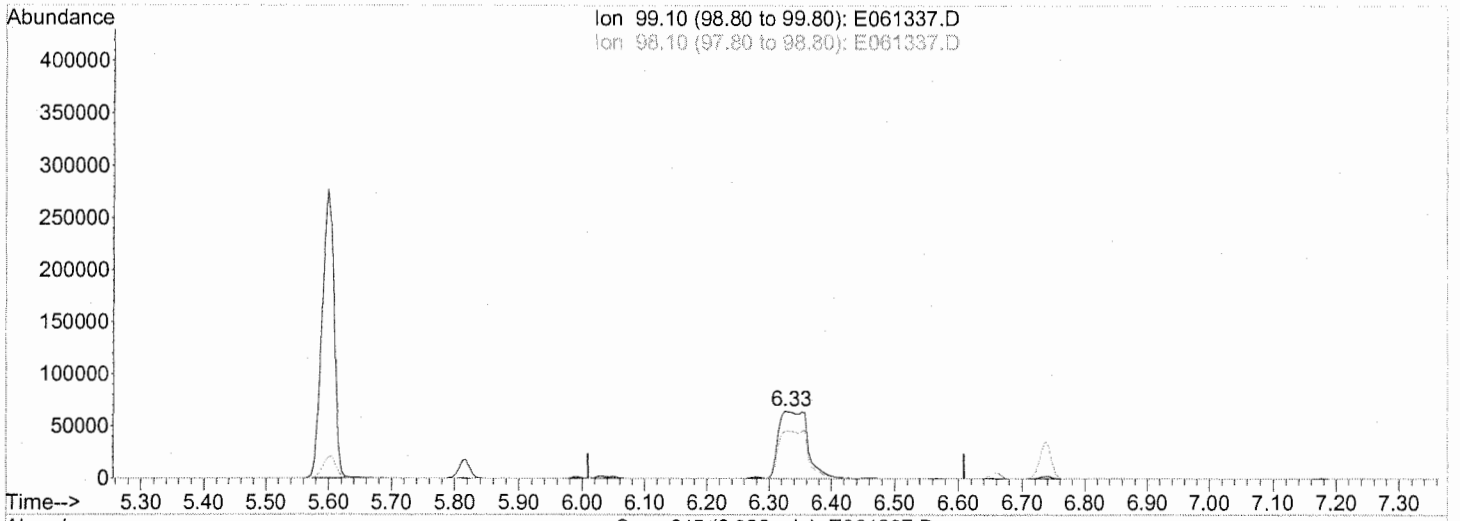
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration

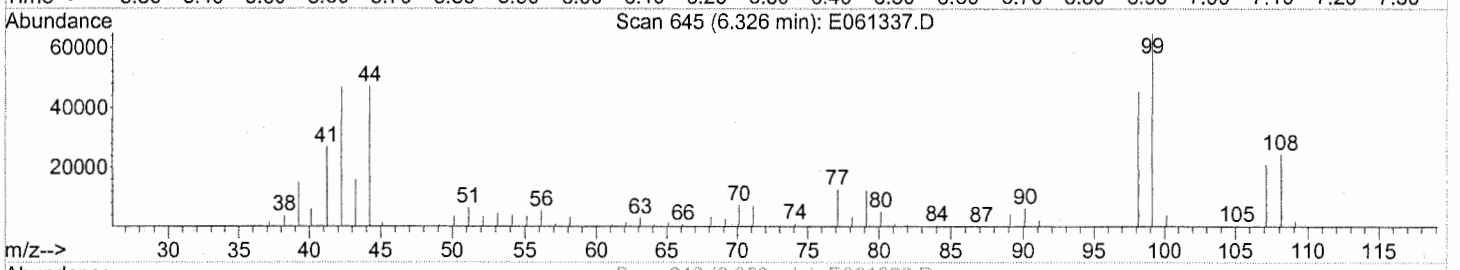


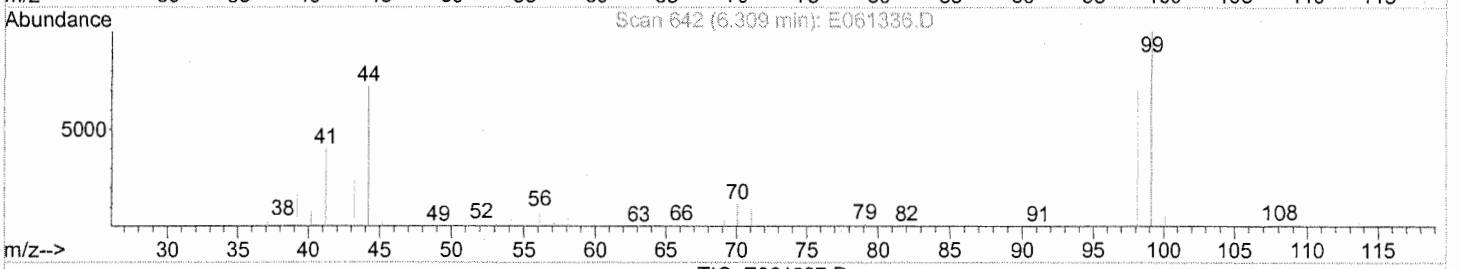
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration







TIC: E061337.D

(16) N-Methyl pyrrolidine (NMP) (N)

6.33min 71.80mg/L m

response 211125

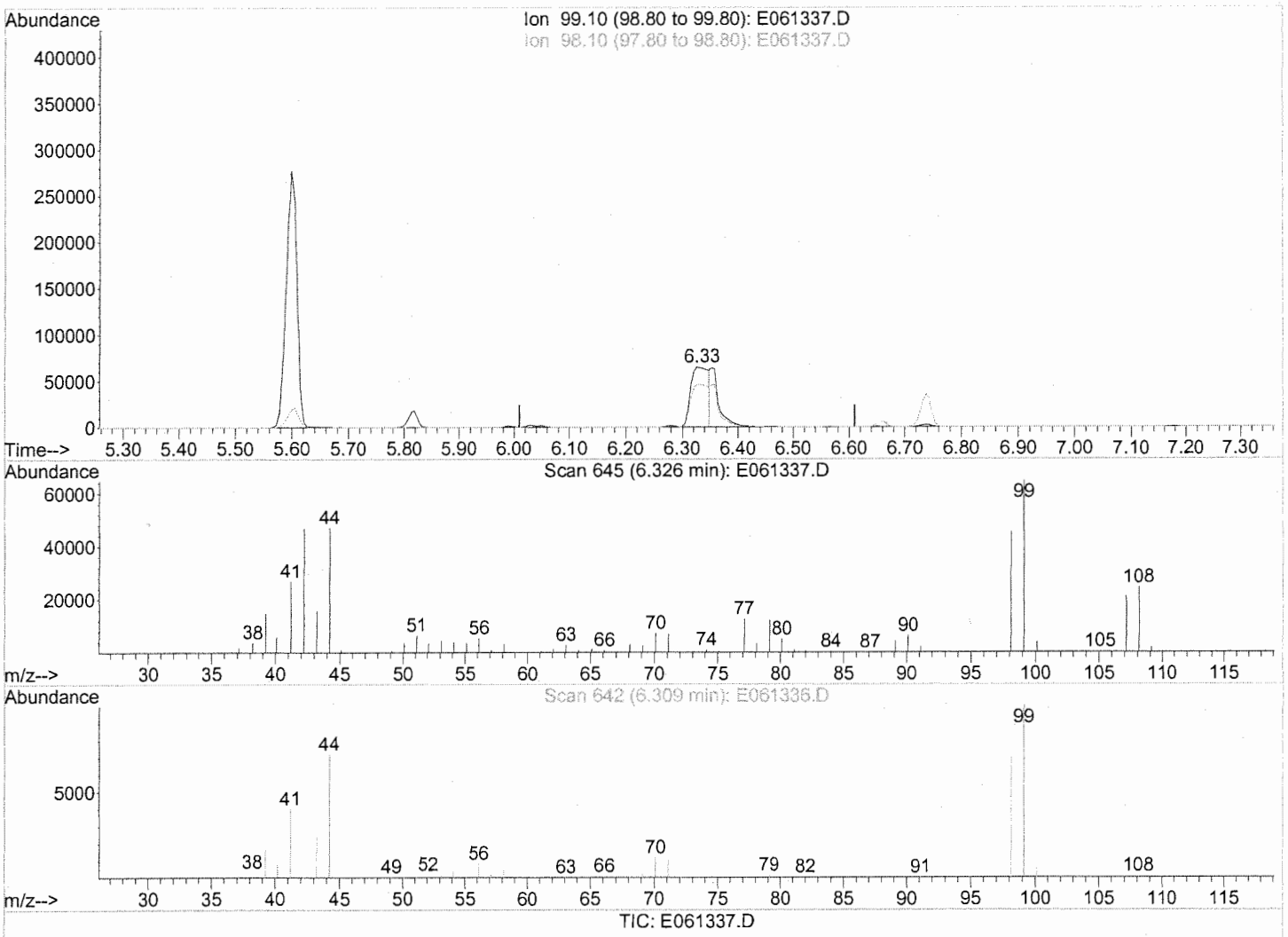
Ion	Exp%	Act%
99.10	100	100
98.10	70.60	71.18
0.00	0.00	0.00
0.00	0.00	0.00

Spirit prep
10/12/06
10/17/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration



TIC: E061337.D

(16) N-Methyl pyrrolidine (NMP) (N)

6.33min 48.16mg/L

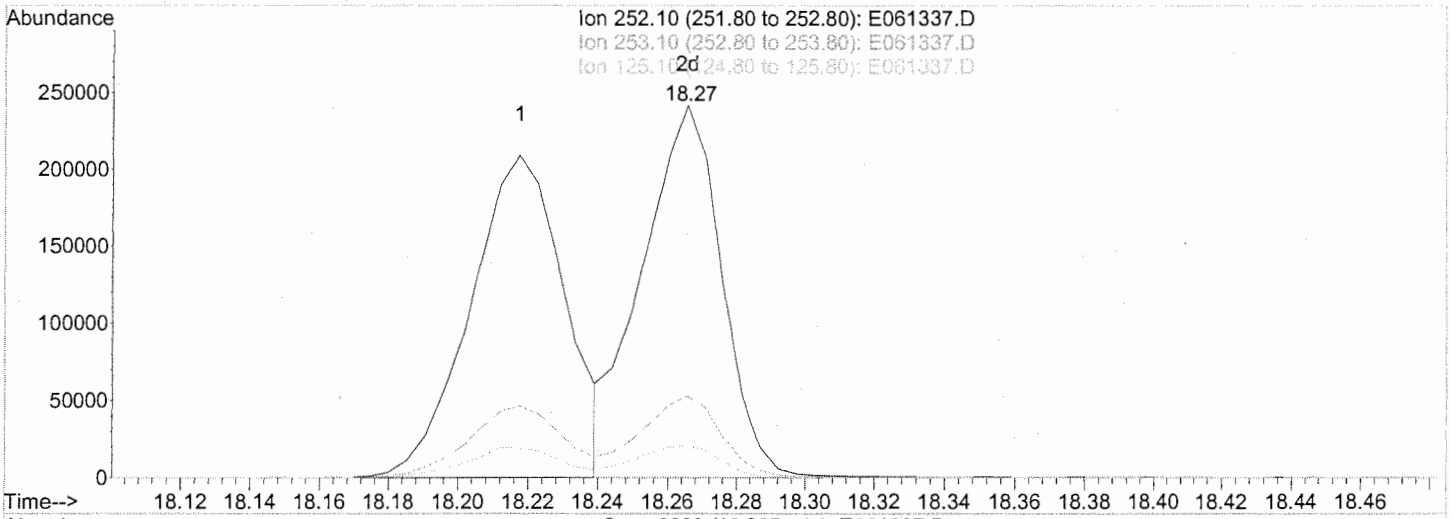
response 141605

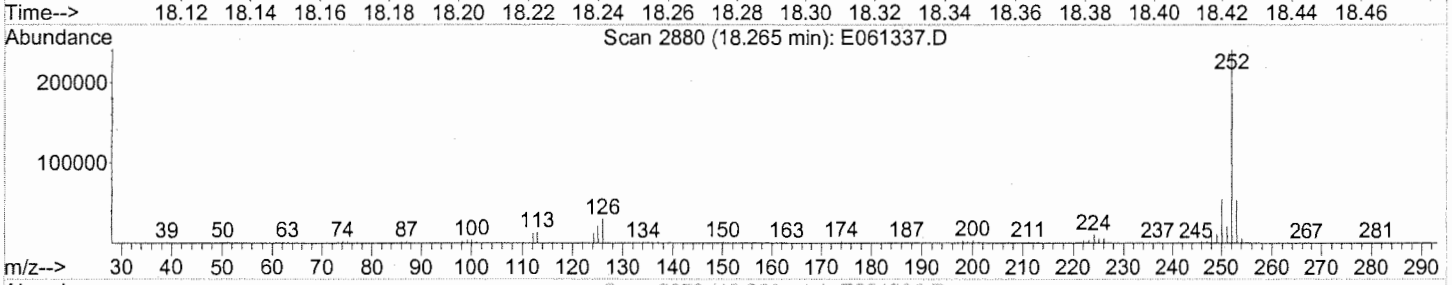
Ion	Exp%	Act%
99.10	100	100
98.10	70.60	106.12#
0.00	0.00	0.00
0.00	0.00	0.00

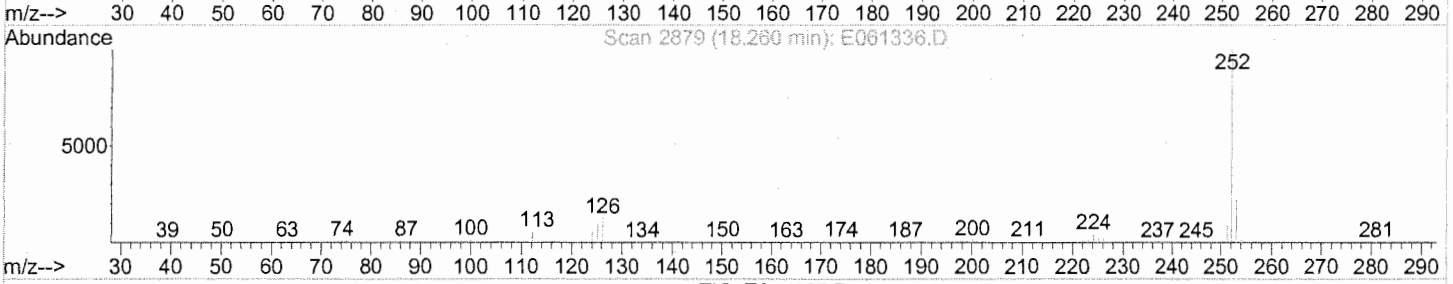
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:38 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration







TIC: E061337.D

(83) Benzo(k)fluoranthene (T)

18.27min 71.26mg/L m

response 383938

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	22.52
125.10	11.60	9.53
0.00	0.00	0.00

Wrong peak

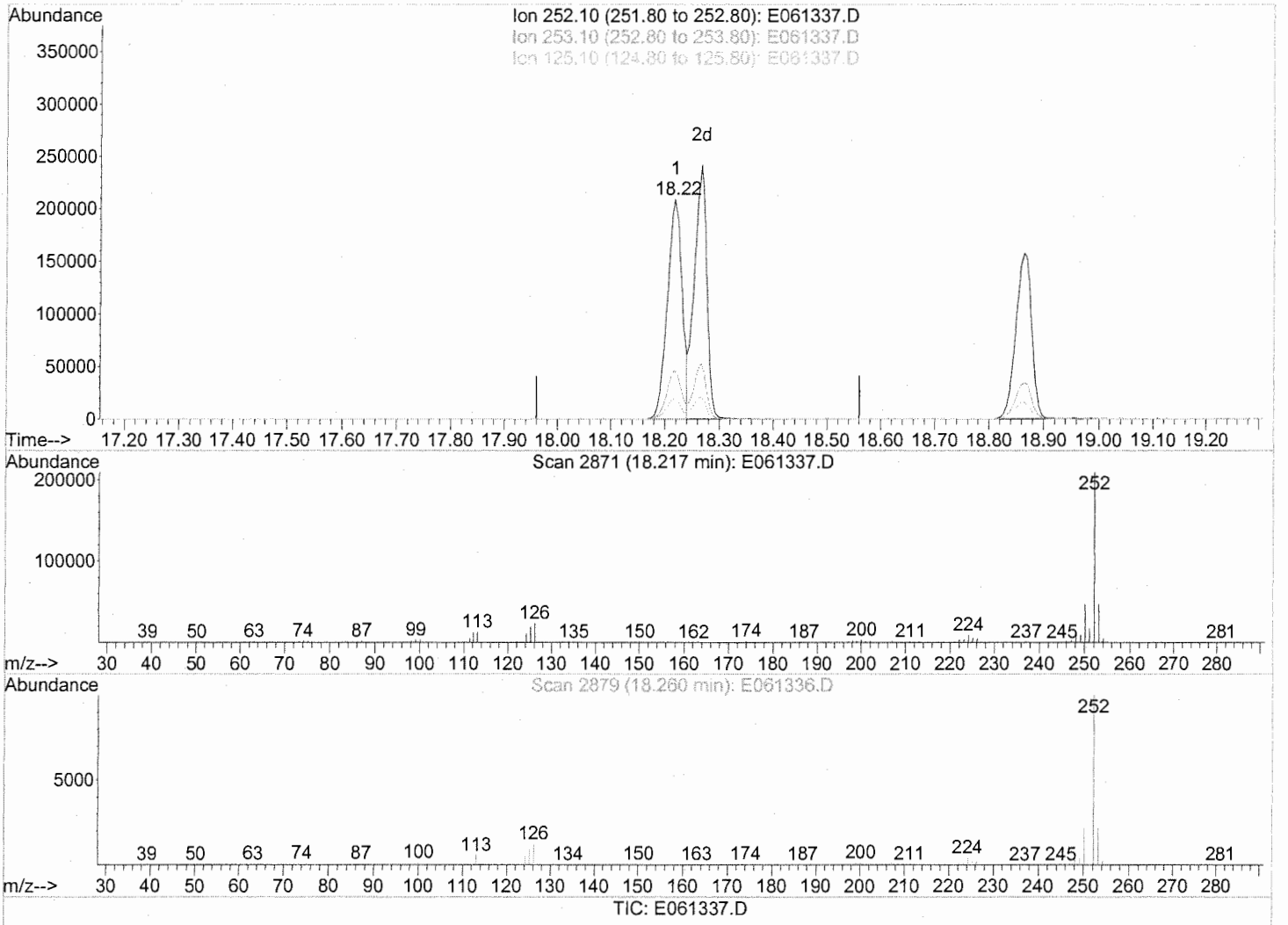
10/12/06

10/11/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration



TIC: E061337.D

(83) Benzo(k)fluoranthene (T)

18.22min 72.24mg/L

response 389217

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	22.21
125.10	11.60	9.40
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37:24 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	139984	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	537827	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	340769	40.00	mg/L	0.00
57) Phenanthrene-d10	11.67	188	560407	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	323981	40.00	mg/L	0.00
80) Perylene-d12	18.98	264	163476	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.62	112	272995	69.82	mg/L	0.00
Spiked Amount 50.000			Recovery = 139.64%			
7) Phenol-d5	5.60	99	364874	70.68	mg/L	0.00
Spiked Amount 50.000			Recovery = 141.36%			
23) Nitrobenzene-d5	6.74	82	340915	69.79	mg/L	0.00
Spiked Amount 50.000			Recovery = 139.58%			
41) 2-Fluorobiphenyl	8.97	172	742068	71.31	mg/L	0.00
Spiked Amount 50.000			Recovery = 142.62%			
61) 2,4,6-Tribromophenol	10.81	330	99976	71.24	mg/L	0.00
Spiked Amount 50.000			Recovery = 142.48%			
73) Terphenyl-d14	14.07	244	649709	73.85	mg/L	0.00
Spiked Amount 50.000			Recovery = 147.70%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	160482	68.85	mg/L	97
3) N-Nitrosodimethylamine	3.33	42	190144	69.29	mg/L	87
4) Pyridine	3.35	79	411664	69.71	mg/L	96
5) PGMEA	4.54	43	473978	69.63	mg/L	97
8) Phenol	5.62	94	392033	70.64	mg/L	90
9) Aniline	5.68	93	441188	70.42	mg/L	98
10) Bis(2-chloroethyl)ether	5.73	93	320727	70.69	mg/L	96
11) 2-Chlorophenol	5.82	128	323566	69.90	mg/L	100
12) 1,3-Dichlorobenzene	5.99	146	382177	69.99	mg/L	98
13) 1,4-Dichlorobenzene	6.05	146	388622	69.79	mg/L	99
14) Benzyl alcohol	6.20	108	201043	71.03	mg/L	90
15) 1,2-Dichlorobenzene	6.28	146	361490	69.99	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.33	99	141605	48.16	mg/L #	57
17) 2-Methylphenol	6.35	108	284376	71.64	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.39	45	442146	69.86	mg/L	98
19) 4-Methylphenol	6.52	107	371361	70.35	mg/L	97
20) N-Nitrosodi-n-propylamine	6.57	70	237274	70.68	mg/L	95
21) Hexachloroethane	6.66	117	148056	70.24	mg/L	92
24) Nitrobenzene	6.76	77	371344	69.18	mg/L	96
25) Isophorone	7.04	82	636850	69.92	mg/L	99
26) 2-Nitrophenol	7.15	139	186323	70.12	mg/L	95
27) 2,4-Dimethylphenol	7.18	122	287793	70.34	mg/L	98
28) Benzoic acid	7.34	122	193147	71.55	mg/L	90
29) Bis(2-chloroethoxy)methane	7.30	93	375411	70.11	mg/L	97
30) 2,4-Dichlorophenol	7.44	162	285546	69.59	mg/L	97
31) 1,2,4-Trichlorobenzene	7.55	180	331597	70.13	mg/L	99
32) Naphthalene	7.64	128	949683	70.34	mg/L	100
33) 4-Chloroaniline	7.71	127	345468	70.43	mg/L	97
34) Hexachlorobutadiene	7.85	225	207482	70.32	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37:24 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

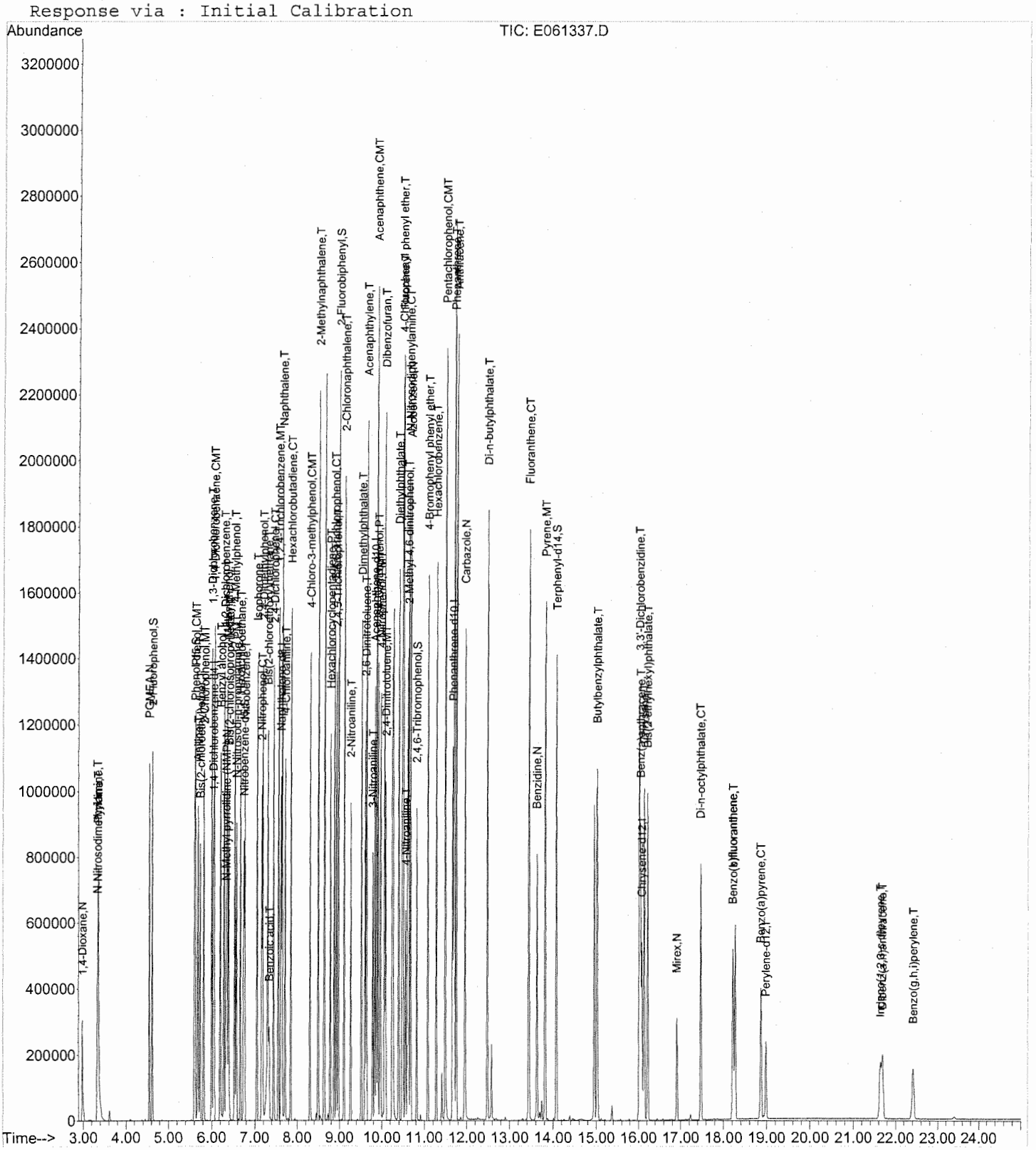
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.30	107	291780	71.78	mg/L		100
36)	2-Methylnaphthalene	8.49	142	689713	70.80	mg/L		99
38)	Hexachlorocyclopentadiene	8.77	237	224126	71.61	mg/L		97
39)	2,4,6-Trichlorophenol	8.87	196	230670	71.14	mg/L		99
40)	2,4,5-Trichlorophenol	8.92	196	248775	70.96	mg/L		97
42)	2-Chloronaphthalene	9.11	162	642599	71.28	mg/L		100
43)	2-Nitroaniline	9.26	65	201335	72.29	mg/L		98
44)	Dimethylphthalate	9.51	163	752434	71.44	mg/L		99
45)	Acenaphthylene	9.64	152	1042076	71.82	mg/L		99
46)	2,6-Dinitrotoluene	9.61	165	175393	69.79	mg/L		95
47)	3-Nitroaniline	9.78	138	160307	75.99	mg/L		94
48)	Acenaphthene	9.87	154	629075	72.37	mg/L		99
49)	2,4-Dinitrophenol	9.90	184	251750	71.97	mg/L		94
50)	4-Nitrophenol	9.97	109	236684	73.91	mg/L		92
51)	Dibenzofuran	10.07	168	954965	71.39	mg/L		94
52)	2,4-Dinitrotoluene	10.10	165	234035	72.28	mg/L		96
53)	Fluorene	10.49	166	791465	72.08	mg/L		98
54)	Diethylphthalate	10.39	149	764923	71.91	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.48	204	396326	71.08	mg/L		95
56)	4-Nitroaniline	10.56	138	143728	72.90	mg/L		96
58)	2-Methyl-4,6-dinitrophenol	10.61	198	313812	72.48	mg/L		93
59)	N-Nitrosodiphenylamine	10.63	169	515778	73.34	mg/L		91
60)	Azobenzene	10.67	77	770049	71.03	mg/L		98
62)	4-Bromophenyl phenyl ether	11.08	248	228325	70.52	mg/L		94
63)	Hexachlorobenzene	11.28	284	235053	71.57	mg/L		94
64)	Pentachlorophenol	11.50	266	337171	73.47	mg/L		98
65)	Phenanthrene	11.70	178	1154025	71.39	mg/L		100
66)	Anthracene	11.76	178	1135411	70.85	mg/L		99
67)	Carbazole	11.96	167	791995	77.81	mg/L		99
68)	Di-n-butylphthalate	12.48	149	1167519	70.42	mg/L		100
69)	Fluoranthene	13.44	202	1063018	70.03	mg/L		98
71)	Benzidine	13.63	184	481678	73.29	mg/L		98
72)	Pyrene	13.82	202	1026796	73.96	mg/L		100
74)	Butylbenzylphthalate	15.02	149	384337	72.42	mg/L		97
75)	3,3'-Dichlorobenzidine	16.02	252	401735	73.66	mg/L		99
76)	Benz(a)anthracene	16.05	228	655482	70.40	mg/L		99
77)	Chrysene	16.13	228	603580	70.00	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.22	149	462906	69.80	mg/L		99
79)	Mirex	16.91	272	67298	69.48	mg/L		95
81)	Di-n-octylphthalate	17.47	149	644721	73.55	mg/L		100
82)	Benzo(b)fluoranthene	18.22	252	389217	69.44	mg/L	#	96
83)	Benzo(k)fluoranthene	18.22	252	389217	72.24	mg/L		98
84)	Benzo(a)pyrene	18.86	252	317459	70.26	mg/L	#	95
85)	Indeno(1,2,3-c,d)pyrene	21.64	276	254535	71.44	mg/L		91
86)	Dibenz(a,h)anthracene	21.69	278	218486	71.27	mg/L	#	94
87)	Benzo(g,h,i)perylene	22.41	276	206933	71.55	mg/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061337.D Vial: 10
Acq On : 11 Oct 2006 5:49 pm Operator: SC
Sample : 70PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-8 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:37 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061338.D Vial: 11
Acq On : 11 Oct 2006 6:21 pm Operator: SC
Sample : 100PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:38:58 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/12/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	132370	40.00	mg/L	0.00
22) Naphthalene-d8	7.62	136	508189	40.00	mg/L	0.00
37) Acenaphthene-d10	9.83	164	318490	40.00	mg/L	0.00
57) Phenanthrene-d10	11.67	188	520720	40.00	mg/L	0.01
70) Chrysene-d12	16.09	240	284978	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	132253	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.62	112	369758	100.01	mg/L	0.00
Spiked Amount 50.000			Recovery = 200.02%			
7) Phenol-d5	5.60	99	488915	100.16	mg/L	0.01
Spiked Amount 50.000			Recovery = 200.32%			
23) Nitrobenzene-d5	6.74	82	450411	97.58	mg/L	0.00
Spiked Amount 50.000			Recovery = 195.16%			
41) 2-Fluorobiphenyl	8.98	172	1003557	103.18	mg/L	0.01
Spiked Amount 50.000			Recovery = 206.36%			
61) 2,4,6-Tribromophenol	10.82	330	135070	103.58	mg/L	0.01
Spiked Amount 50.000			Recovery = 207.16%			
73) Terphenyl-d14	14.08	244	845188	109.22	mg/L	0.01
Spiked Amount 50.000			Recovery = 218.44%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	214527	97.33	mg/L	96
3) N-Nitrosodimethylamine	3.33	42	252169	97.18	mg/L	86
4) Pyridine	3.35	79	546757	97.91	mg/L	96
5) PGMEA	4.54	43	630985	98.02	mg/L	96
8) Phenol	5.62	94	524661	99.97	mg/L	91
9) Aniline	5.68	93	599058	101.12	mg/L	99
10) Bis(2-chloroethyl)ether	5.73	93	433689	101.09	mg/L	95
11) 2-Chlorophenol	5.82	128	435072	99.39	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	513638	99.47	mg/L	99
13) 1,4-Dichlorobenzene	6.05	146	527845	100.25	mg/L	99
14) Benzyl alcohol	6.21	108	266930	99.73	mg/L	90
15) 1,2-Dichlorobenzene	6.28	146	487722	99.86	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.35	99	280990	101.05	mg/L	98
17) 2-Methylphenol	6.36	108	381924	101.75	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.39	45	590162	98.60	mg/L	98
19) 4-Methylphenol	6.53	107	499981	100.17	mg/L	97
20) N-Nitrosodi-n-propylamine	6.57	70	315834	99.50	mg/L	97
21) Hexachloroethane	6.66	117	201640	101.16	mg/L	93
24) Nitrobenzene	6.77	77	497815	98.15	mg/L	96
25) Isophorone	7.05	82	847926	98.52	mg/L	99
26) 2-Nitrophenol	7.16	139	249855	99.51	mg/L	95
27) 2,4-Dimethylphenol	7.19	122	396656	102.61	mg/L	97
28) Benzoic acid	7.36	122	262708	103.00	mg/L	90
29) Bis(2-chloroethoxy)methane	7.30	93	500122	98.85	mg/L	97
30) 2,4-Dichlorophenol	7.45	162	385738	99.48	mg/L	97
31) 1,2,4-Trichlorobenzene	7.56	180	444611	99.52	mg/L	99
32) Naphthalene	7.64	128	1287160	100.90	mg/L	100
33) 4-Chloroaniline	7.72	127	478128	103.16	mg/L	98
34) Hexachlorobutadiene	7.85	225	279984	100.42	mg/L	99

10/11/06

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061338.D Vial: 11
Acq On : 11 Oct 2006 6:21 pm Operator: SC
Sample : 100PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:38:58 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

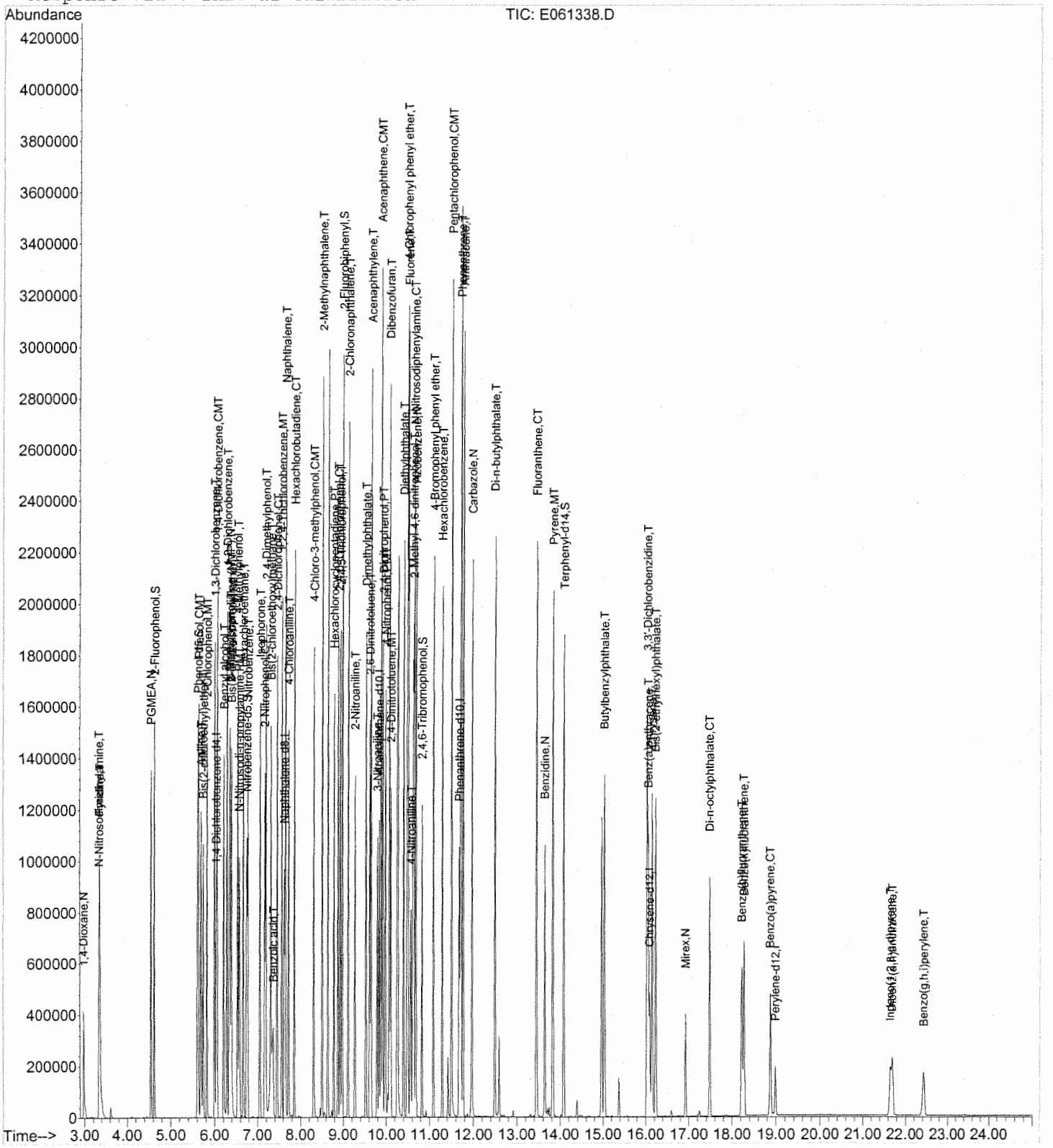
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
35) 4-Chloro-3-methylphenol	8.30	107	388910	101.26 mg/L	100
36) 2-Methylnaphthalene	8.50	142	935221	101.60 mg/L	99
38) Hexachlorocyclopentadiene	8.78	237	304283	104.02 mg/L	98
39) 2,4,6-Trichlorophenol	8.88	196	308782	101.90 mg/L	100
40) 2,4,5-Trichlorophenol	8.93	196	334526	102.10 mg/L	97
42) 2-Chloronaphthalene	9.11	162	857617	101.78 mg/L	99
43) 2-Nitroaniline	9.27	65	266377	102.34 mg/L	96
44) Dimethylphthalate	9.52	163	994579	101.04 mg/L	99
45) Acenaphthylene	9.64	152	1403962	103.52 mg/L	99
46) 2,6-Dinitrotoluene	9.61	165	237999	101.33 mg/L	96
47) 3-Nitroaniline	9.79	138	214643	108.87 mg/L	93
48) Acenaphthene	9.87	154	859982	105.85 mg/L	99
49) 2,4-Dinitrophenol	9.92	184	352271	107.76 mg/L	93
50) 4-Nitrophenol	9.98	109	317489	106.09 mg/L	92
51) Dibenzofuran	10.07	168	1291175	103.28 mg/L	95
52) 2,4-Dinitrotoluene	10.10	165	315818	104.37 mg/L	97
53) Fluorene	10.50	166	1074108	104.66 mg/L	98
54) Diethylphthalate	10.40	149	1015198	102.11 mg/L	97
55) 4-Chlorophenyl phenyl ethe	10.48	204	538543	103.34 mg/L	95
56) 4-Nitroaniline	10.57	138	196636	106.72 mg/L	96
58) 2-Methyl-4,6-dinitrophenol	10.62	198	417159	103.70 mg/L #	83
59) N-Nitrosodiphenylamine	10.64	169	722806	110.60 mg/L	91
60) Azobenzene	10.68	77	1022477	101.50 mg/L	98
62) 4-Bromophenyl phenyl ether	11.09	248	307308	102.14 mg/L	94
63) Hexachlorobenzene	11.29	284	314900	103.20 mg/L	94
64) Pentachlorophenol	11.50	266	463659	108.73 mg/L	99
65) Phenanthrene	11.71	178	1543924	102.79 mg/L	99
66) Anthracene	11.76	178	1523950	102.35 mg/L	99
67) Carbazole	11.97	167	1121877	118.62 mg/L	99
68) Di-n-butylphthalate	12.48	149	1526164	99.07 mg/L	100
69) Fluoranthene	13.45	202	1396111	98.98 mg/L	98
71) Benzidine	13.64	184	633342	109.55 mg/L	99
72) Pyrene	13.83	202	1333999	109.24 mg/L	100
74) Butylbenzylphthalate	15.03	149	477088	102.20 mg/L	97
75) 3,3'-Dichlorobenzidine	16.03	252	498303	103.88 mg/L	99
76) Benz(a)anthracene	16.05	228	822261	100.40 mg/L	99
77) Chrysene	16.14	228	754390	99.46 mg/L	99
78) Bis(2-ethylhexyl)phthalate	16.23	149	560683	96.11 mg/L	99
79) Mirex	16.92	272	82463	96.79 mg/L	95
81) Di-n-octylphthalate	17.48	149	760852	107.29 mg/L	99
82) Benzo(b)fluoranthene	18.22	252	472111	104.11 mg/L #	96
83) Benzo(k)fluoranthene	18.27	252	444782m	102.04 mg/L	
84) Benzo(a)pyrene	18.87	252	373462	102.17 mg/L #	95
85) Indeno(1,2,3-c,d)pyrene	21.65	276	278316	96.55 mg/L #	87
86) Dibenz(a,h)anthracene	21.70	278	237176	95.63 mg/L #	94
87) Benzo(g,h,i)perylene	22.42	276	222988	95.30 mg/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061338.D Vial: 11
Acq On : 11 Oct 2006 6:21 pm Operator: SC
Sample : 100PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:40 2006 Quant Results File: BA061011.RES

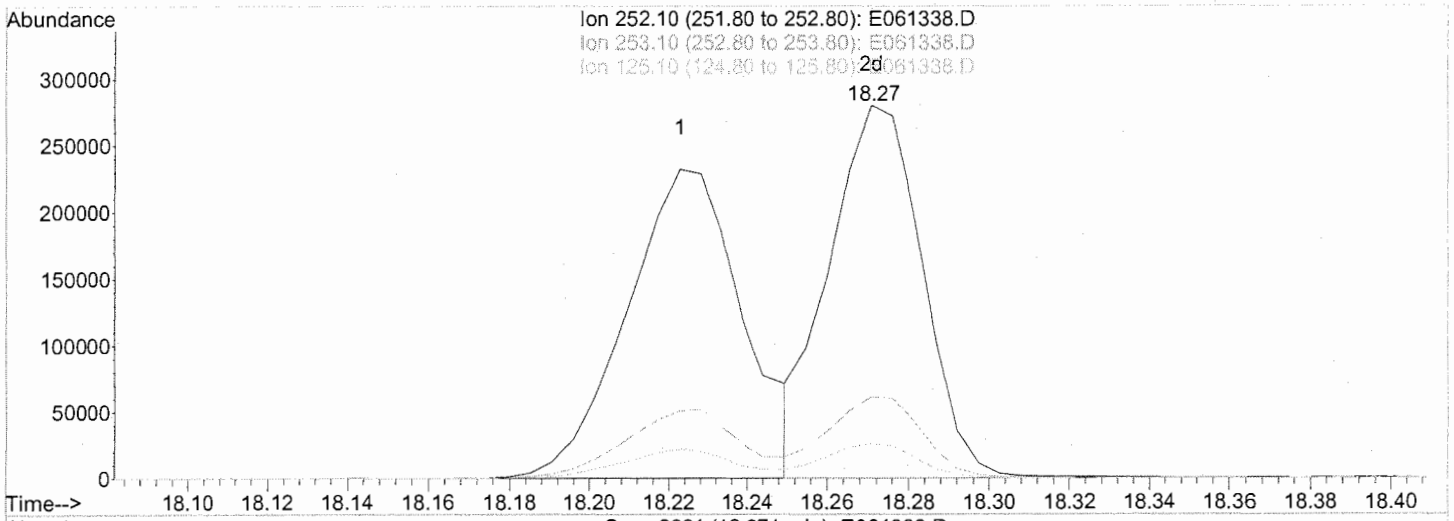
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration

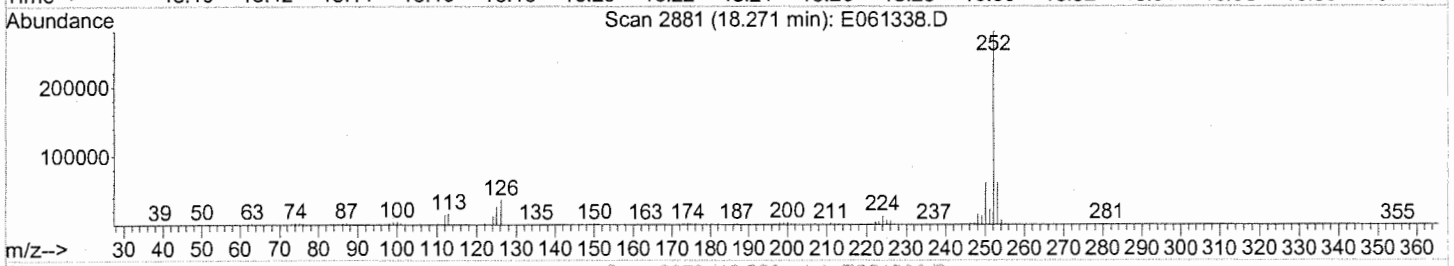


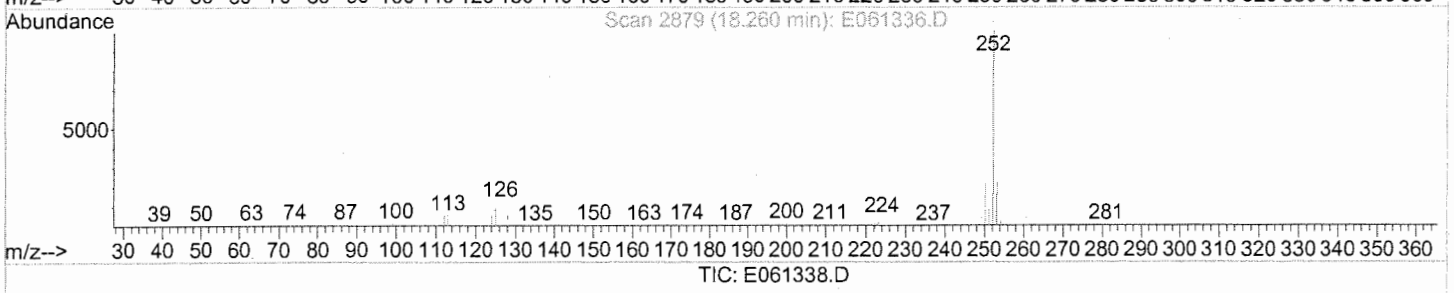
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061338.D Vial: 11
Acq On : 11 Oct 2006 6:21 pm Operator: SC
Sample : 100PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:40 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration







TIC: E061338.D

(83) Benzo(k)fluoranthene (T)

18.27min 102.04mg/L m

response 444782

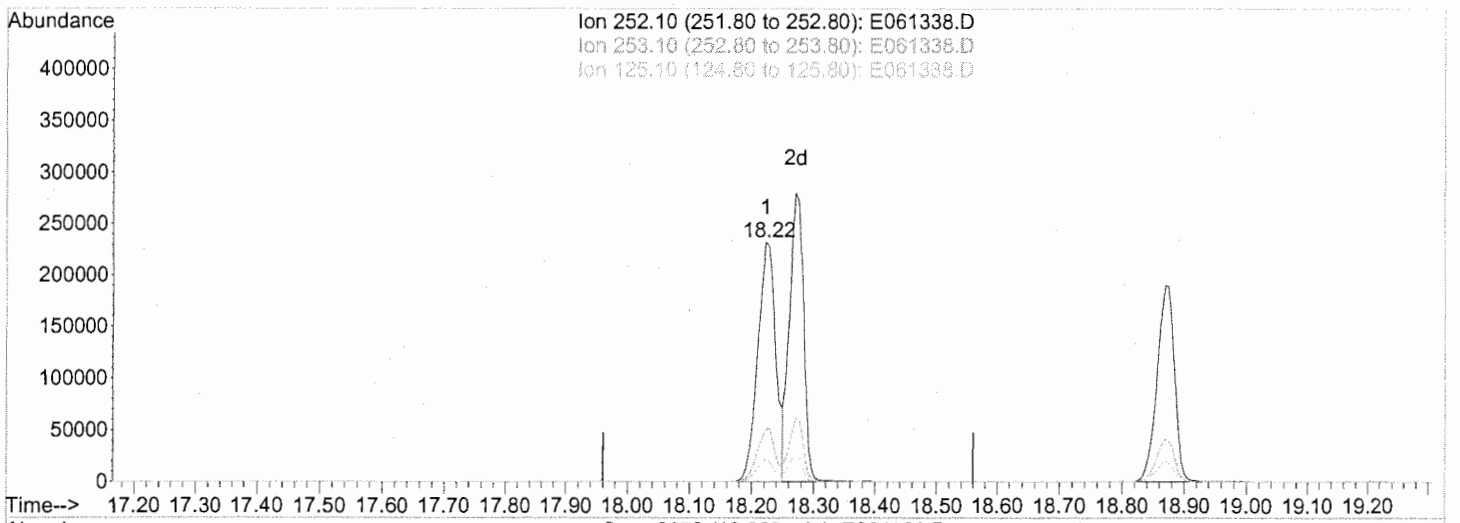
Ion	Exp%	Act%
252.10	100	100
253.10	22.20	23.35
125.10	11.60	9.87
0.00	0.00	0.00

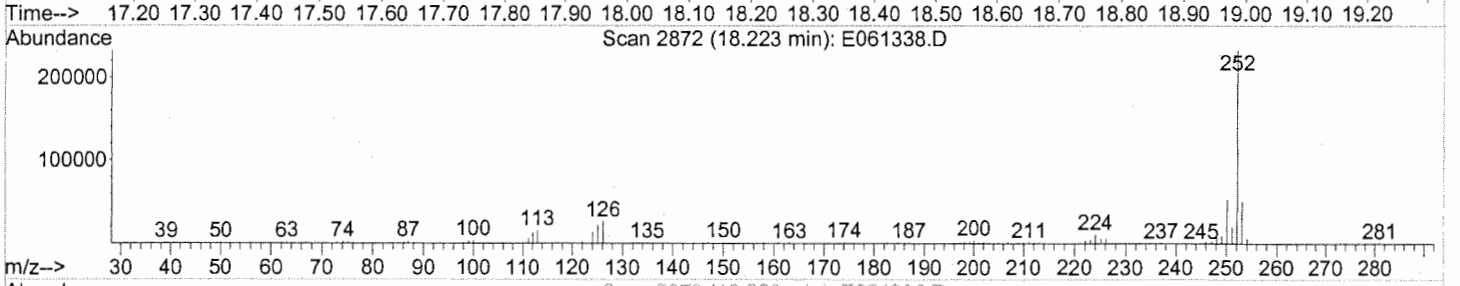
Wrong Peak
10/12/06
10/17/06

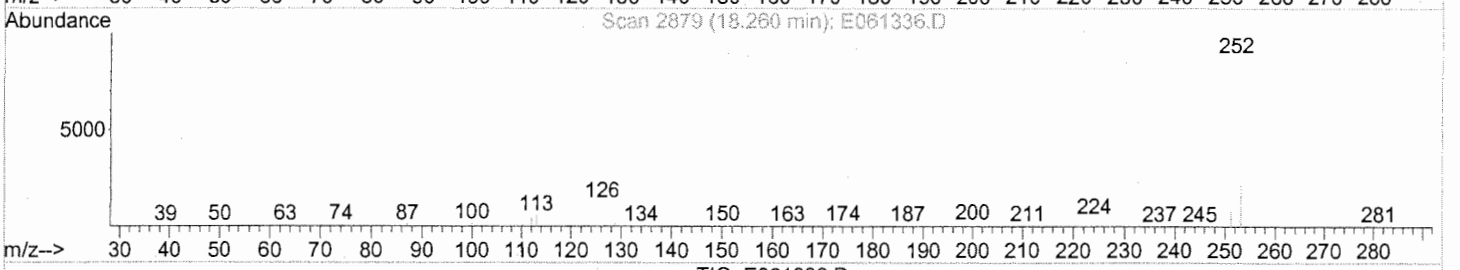
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061338.D Vial: 11
Acq On : 11 Oct 2006 6:21 pm Operator: SC
Sample : 100PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:38 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Single Level Calibration







TIC: E061338.D

(83) Benzo(k)fluoranthene (T)

18.22min 108.31mg/L

response 472111

Ion	Exp%	Act%
252.10	100	100
253.10	22.20	22.00
125.10	11.60	9.30
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061338.D Vial: 11
Acq On : 11 Oct 2006 6:21 pm Operator: SC
Sample : 100PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:38:58 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	132370	40.00	mg/L	0.00
22) Naphthalene-d8	7.62	136	508189	40.00	mg/L	0.00
37) Acenaphthene-d10	9.83	164	318490	40.00	mg/L	0.00
57) Phenanthrene-d10	11.67	188	520720	40.00	mg/L	0.01
70) Chrysene-d12	16.09	240	284978	40.00	mg/L	0.00
80) Perylene-d12	18.99	264	132253	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.62	112	369758	100.01	mg/L	0.00
Spiked Amount 50.000			Recovery = 200.02%			
7) Phenol-d5	5.60	99	488915	100.16	mg/L	0.01
Spiked Amount 50.000			Recovery = 200.32%			
23) Nitrobenzene-d5	6.74	82	450411	97.58	mg/L	0.00
Spiked Amount 50.000			Recovery = 195.16%			
41) 2-Fluorobiphenyl	8.98	172	1003557	103.18	mg/L	0.01
Spiked Amount 50.000			Recovery = 206.36%			
61) 2,4,6-Tribromophenol	10.82	330	135070	103.58	mg/L	0.01
Spiked Amount 50.000			Recovery = 207.16%			
73) Terphenyl-d14	14.08	244	845188	109.22	mg/L	0.01
Spiked Amount 50.000			Recovery = 218.44%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	214527	97.33	mg/L	96
3) N-Nitrosodimethylamine	3.33	42	252169	97.18	mg/L	86
4) Pyridine	3.35	79	546757	97.91	mg/L	96
5) PGMEA	4.54	43	630985	98.02	mg/L	96
8) Phenol	5.62	94	524661	99.97	mg/L	91
9) Aniline	5.68	93	599058	101.12	mg/L	99
10) Bis(2-chloroethyl)ether	5.73	93	433689	101.09	mg/L	95
11) 2-Chlorophenol	5.82	128	435072	99.39	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	513638	99.47	mg/L	99
13) 1,4-Dichlorobenzene	6.05	146	527845	100.25	mg/L	99
14) Benzyl alcohol	6.21	108	266930	99.73	mg/L	90
15) 1,2-Dichlorobenzene	6.28	146	487722	99.86	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.35	99	280990	101.05	mg/L	98
17) 2-Methylphenol	6.36	108	381924	101.75	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.39	45	590162	98.60	mg/L	98
19) 4-Methylphenol	6.53	107	499981	100.17	mg/L	97
20) N-Nitrosodi-n-propylamine	6.57	70	315834	99.50	mg/L	97
21) Hexachloroethane	6.66	117	201640	101.16	mg/L	93
24) Nitrobenzene	6.77	77	497815	98.15	mg/L	96
25) Isophorone	7.05	82	847926	98.52	mg/L	99
26) 2-Nitrophenol	7.16	139	249855	99.51	mg/L	95
27) 2,4-Dimethylphenol	7.19	122	396656	102.61	mg/L	97
28) Benzoic acid	7.36	122	262708	103.00	mg/L	90
29) Bis(2-chloroethoxy)methane	7.30	93	500122	98.85	mg/L	97
30) 2,4-Dichlorophenol	7.45	162	385738	99.48	mg/L	97
31) 1,2,4-Trichlorobenzene	7.56	180	444611	99.52	mg/L	99
32) Naphthalene	7.64	128	1287160	100.90	mg/L	100
33) 4-Chloroaniline	7.72	127	478128	103.16	mg/L	98
34) Hexachlorobutadiene	7.85	225	279984	100.42	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061338.D Vial: 11
Acq On : 11 Oct 2006 6:21 pm Operator: SC
Sample : 100PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:38:58 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration
DataAcq Meth : 8270

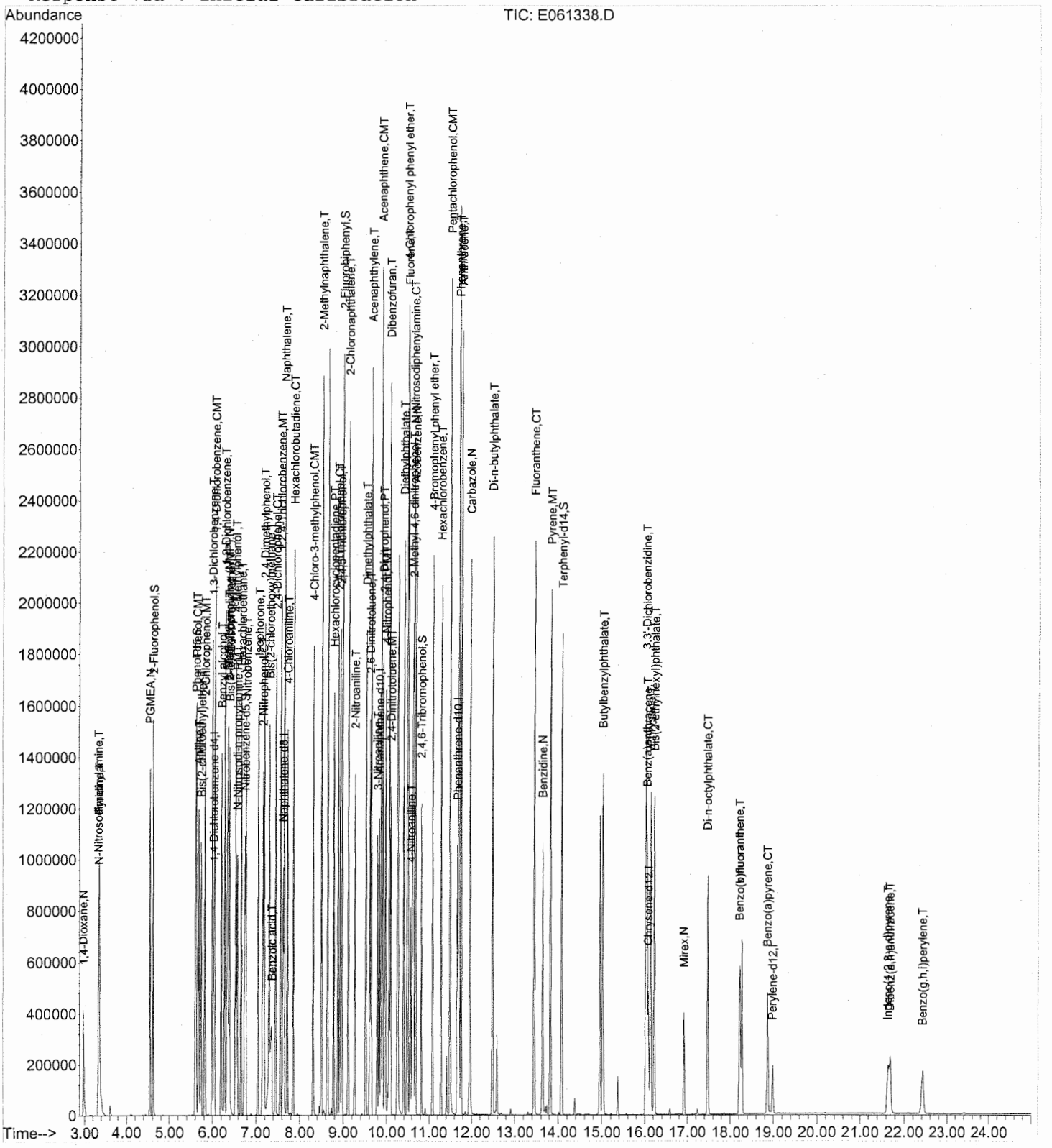
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.30	107	388910	101.26	mg/L		100
36)	2-Methylnaphthalene	8.50	142	935221	101.60	mg/L		99
38)	Hexachlorocyclopentadiene	8.78	237	304283	104.02	mg/L		98
39)	2,4,6-Trichlorophenol	8.88	196	308782	101.90	mg/L		100
40)	2,4,5-Trichlorophenol	8.93	196	334526	102.10	mg/L		97
42)	2-Chloronaphthalene	9.11	162	857617	101.78	mg/L		99
43)	2-Nitroaniline	9.27	65	266377	102.34	mg/L		96
44)	Dimethylphthalate	9.52	163	994579	101.04	mg/L		99
45)	Acenaphthylene	9.64	152	1403962	103.52	mg/L		99
46)	2,6-Dinitrotoluene	9.61	165	237999	101.33	mg/L		96
47)	3-Nitroaniline	9.79	138	214643	108.87	mg/L		93
48)	Acenaphthene	9.87	154	859982	105.85	mg/L		99
49)	2,4-Dinitrophenol	9.92	184	352271	107.76	mg/L		93
50)	4-Nitrophenol	9.98	109	317489	106.09	mg/L		92
51)	Dibenzofuran	10.07	168	1291175	103.28	mg/L		95
52)	2,4-Dinitrotoluene	10.10	165	315818	104.37	mg/L		97
53)	Fluorene	10.50	166	1074108	104.66	mg/L		98
54)	Diethylphthalate	10.40	149	1015198	102.11	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.48	204	538543	103.34	mg/L		95
56)	4-Nitroaniline	10.57	138	196636	106.72	mg/L		96
58)	2-Methyl-4,6-dinitrophenol	10.62	198	417159	103.70	mg/L	#	83
59)	N-Nitrosodiphenylamine	10.64	169	722806	110.60	mg/L		91
60)	Azobenzene	10.68	77	1022477	101.50	mg/L		98
62)	4-Bromophenyl phenyl ether	11.09	248	307308	102.14	mg/L		94
63)	Hexachlorobenzene	11.29	284	314900	103.20	mg/L		94
64)	Pentachlorophenol	11.50	266	463659	108.73	mg/L		99
65)	Phenanthrene	11.71	178	1543924	102.79	mg/L		99
66)	Anthracene	11.76	178	1523950	102.35	mg/L		99
67)	Carbazole	11.97	167	1121877	118.62	mg/L		99
68)	Di-n-butylphthalate	12.48	149	1526164	99.07	mg/L		100
69)	Fluoranthene	13.45	202	1396111	98.98	mg/L		98
71)	Benzidine	13.64	184	633342	109.55	mg/L		99
72)	Pyrene	13.83	202	1333999	109.24	mg/L		100
74)	Butylbenzylphthalate	15.03	149	477088	102.20	mg/L		97
75)	3,3'-Dichlorobenzidine	16.03	252	498303	103.88	mg/L		99
76)	Benz(a)anthracene	16.05	228	822261	100.40	mg/L		99
77)	Chrysene	16.14	228	754390	99.46	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.23	149	560683	96.11	mg/L		99
79)	Mirex	16.92	272	82463	96.79	mg/L		95
81)	Di-n-octylphthalate	17.48	149	760852	107.29	mg/L		99
82)	Benzo(b)fluoranthene	18.22	252	472111	104.11	mg/L	#	96
83)	Benzo(k)fluoranthene	18.22	252	472111	108.31	mg/L		98
84)	Benzo(a)pyrene	18.87	252	373462	102.17	mg/L	#	95
85)	Indeno(1,2,3-c,d)pyrene	21.65	276	278316	96.55	mg/L	#	87
86)	Dibenz(a,h)anthracene	21.70	278	237176	95.63	mg/L	#	94
87)	Benzo(g,h,i)perylene	22.42	276	222988	95.30	mg/L		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061338.D Vial: 11
Acq On : 11 Oct 2006 6:21 pm Operator: SC
Sample : 100PPM ICAL 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-9 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:38 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 10:04:09 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E061011\E061339.D Vial: 12
Acq On : 11 Oct 2006 6:54 pm Operator: SC
Sample : 50PPM ICV/CCV 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-10 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 11:21:10 2006
Response via : Multiple Level Calibration

E 10/12/06

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
2	N	1,4-Dioxane	0.660	0.643	2.6	89	0.00
3	T	N-Nitrosodimethylamine	0.770	0.765	0.6	90	0.00
4	T	Pyridine	1.638	1.640	-0.1	89	0.00
5	N	PGMEA	1.911	1.889	1.2	89	0.00
6	S	2-Fluorophenol	1.074	1.058	1.5	87	0.00
7	S	Phenol-d5	1.435	1.424	0.8	89	0.00
8	CMT	Phenol	1.541	1.554	-0.8#	90	0.00
9	T	Aniline	1.783	1.717	3.7	88	0.00
10	T	Bis(2-chloroethyl)ether	1.289	1.277	0.9	91	0.00
11	MT	2-Chlorophenol	1.270	1.305	-2.8	91	0.00
12	T	1,3-Dichlorobenzene	1.518	1.530	-0.8	90	0.00
13	CMT	1,4-Dichlorobenzene	1.575	1.571	0.3#	91	0.00
14	T	Benzyl alcohol	0.776	0.793	-2.2	90	0.00
15	T	1,2-Dichlorobenzene	1.436	1.458	-1.5	91	0.00
16	N	N-Methyl pyrrolidine (NMP)	0.809	0.830	-2.6	91	-0.01
17	T	2-Methylphenol	1.114	1.106	0.7	90	0.00
18	T	Bis(2-chloroisopropyl)ether	1.794	1.767	1.5	90	0.00
19	T	4-Methylphenol	1.448	1.454	-0.4	89	0.00
20	PMT	N-Nitrosodi-n-propylamine	0.923	0.949	-2.8	91	0.00
21	T	Hexachloroethane	0.590	0.610	-3.4	93	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	92	0.00
23	S	Nitrobenzene-d5	0.350	0.351	-0.3	89	0.00
24	T	Nitrobenzene	0.387	0.396	-2.3	91	0.00
25	T	Isophorone	0.644	0.674	-4.7	92	0.00
26	CT	2-Nitrophenol	0.184	0.194	-5.4#	90	0.00
27	T	2,4-Dimethylphenol	0.283	0.290	-2.5	88	0.00
28	T	Benzoic acid	0.193	0.200	-3.6	92	0.00
29	T	Bis(2-chloroethoxy)methane	0.387	0.395	-2.1	91	0.00
30	CT	2,4-Dichlorophenol	0.290	0.291	-0.3#	88	0.00
31	MT	1,2,4-Trichlorobenzene	0.347	0.347	0.0	91	0.00
32	T	Naphthalene	0.992	0.982	1.0	90	0.00
33	T	4-Chloroaniline	0.347	0.350	-0.9	88	0.00
34	CT	Hexachlorobutadiene	0.214	0.218	-1.9#	92	0.00
35	CMT	4-Chloro-3-methylphenol	0.284	0.302	-6.3#	92	0.00
36	T	2-Methylnaphthalene	0.703	0.701	0.3	89	0.00
37	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00
38	PT	Hexachlorocyclopentadiene	0.344	0.357	-3.8	89	0.00
39	CT	2,4,6-Trichlorophenol	0.358	0.374	-4.5#	90	0.00
40	T	2,4,5-Trichlorophenol	0.388	0.405	-4.4	90	0.00
41	S	2-Fluorobiphenyl	1.203	1.184	1.6	88	0.00
42	T	2-Chloronaphthalene	1.038	1.057	-1.8	91	0.00
43	T	2-Nitroaniline	0.311	0.329	-5.8	92	0.00
44	T	Dimethylphthalate	1.199	1.248	-4.1	92	0.00
45	T	Acenaphthylene	1.653	1.663	-0.6	89	0.00
46	T	2,6-Dinitrotoluene	0.273	0.295	-8.1	91	0.00
47	T	3-Nitroaniline	0.236	0.247	-4.7	91	0.00
48	CMT	Acenaphthene	1.013	1.014	-0.1#	91	0.00

(#) = Out of Range

E061339.D BA061011.M Thu Oct 12 11:25:58 2006

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\E061011\E061339.D Vial: 12
Acq On : 11 Oct 2006 6:54 pm Operator: SC
Sample : 50PPM ICV/CCV 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-10 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 11:21:10 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	PT	2,4-Dinitrophenol	0.181	0.206	-13.8	91	0.00
50	PMT	4-Nitrophenol	0.180	0.186	-3.3	90	0.00
51	T	Dibenzofuran	1.541	1.546	-0.3	90	0.00
52	MT	2,4-Dinitrotoluene	0.358	0.391	-9.2	94	0.00
53	T	Fluorene	1.239	1.260	-1.7	89	0.00
54	T	Diethylphthalate	1.210	1.258	-4.0	92	0.00
55	T	4-Chlorophenyl phenyl ether	0.638	0.655	-2.7	91	0.00
56	T	4-Nitroaniline	0.212	0.230	-8.5	90	0.00
57	I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
58	T	2-Methyl-4,6-dinitrophenol	0.145	0.162	-11.7	95	0.00
59	CT	N-Nitrosodiphenylamine	0.518	0.488	5.8#	88	0.00
60	N	Azobenzene	0.761	0.787	-3.4	92	0.00
61	S	2,4,6-Tribromophenol	0.091	0.098	-7.7	88	0.00
62	T	4-Bromophenyl phenyl ether	0.224	0.235	-4.9	92	0.00
63	T	Hexachlorobenzene	0.232	0.238	-2.6	92	0.00
64	CMT	Pentachlorophenol	0.159	0.161	-1.3#	89	0.00
65	T	Phenanthrene	1.141	1.135	0.5	89	0.00
66	T	Anthracene	1.098	1.129	-2.8	89	0.00
67	N	Carbazole	0.730	0.735	-0.7	91	0.00
68	T	Di-n-butylphthalate	1.110	1.173	-5.7	90	0.00
69	CT	Fluoranthene	1.017	1.000	1.7#	83	0.00
70	I	Chrysene-d12	1.000	1.000	0.0	82	0.00
71	N	Benzidine	0.453	0.251	44.6#	51	0.00
72	MT	Pyrene	1.697	1.820	-7.2	87	0.00
73	S	Terphenyl-d14	1.061	1.119	-5.5	84	0.00
74	T	Butylbenzylphthalate	0.618	0.675	-9.2	84	0.00
75	T	3,3'-Dichlorobenzidine	0.299	0.306	-2.3	74	0.00
76	T	Benz(a)anthracene	1.118	1.177	-5.3	84	0.00
77	T	Chrysene	1.046	1.034	1.1	79	0.00
78	T	Bis(2-ethylhexyl)phthalate	0.754	0.810	-7.4	81	0.00
79	N	Mirex	0.227	0.236	-4.0	81	0.00
80	I	Perylene-d12	1.000	1.000	0.0	73	0.00
81	CT	Di-n-octylphthalate	2.012	2.210	-9.8#	76	0.00
82	T	Benzo(b)fluoranthene	1.283	1.406	-9.6	75	0.00
83	T	Benzo(k)fluoranthene	1.268	1.364	-7.6	76	0.00
84	CT	Benzo(a)pyrene	1.022	1.093	-6.9#	72	0.00
85	T	Indeno(1,2,3-c,d)pyrene	0.842	0.812	3.6	68	0.00
86	T	Dibenz(a,h)anthracene	0.717	0.665	7.3	65	0.00
87	T	Benzo(g,h,i)perylene	0.697	0.631	9.5	65	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 13

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061339.D Vial: 12
Acq On : 11 Oct 2006 6:54 pm Operator: SC
Sample : 50PPM ICV/CCV 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 11:24:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 11:21:10 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.03	152	138342	40.00	mg/L	0.00
22) Naphthalene-d8	7.61	136	526802	40.00	mg/L	0.00
37) Acenaphthene-d10	9.82	164	331890	40.00	mg/L	0.00
57) Phenanthrene-d10	11.67	188	535851	40.00	mg/L	0.00
70) Chrysene-d12	16.08	240	296303	40.00	mg/L	0.00
80) Perylene-d12	18.98	264	141453	40.00	mg/L	0.00
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	183008	49.25	mg/L	0.00
Spiked Amount 50.000			Recovery = 98.50%			
7) Phenol-d5	5.59	99	246244	49.60	mg/L	0.00
Spiked Amount 50.000			Recovery = 99.20%			
23) Nitrobenzene-d5	6.74	82	230997	50.08	mg/L	0.00
Spiked Amount 50.000			Recovery = 100.16%			
41) 2-Fluorobiphenyl	8.97	172	491021	49.19	mg/L	0.00
Spiked Amount 50.000			Recovery = 98.38%			
61) 2,4,6-Tribromophenol	10.81	330	65585	53.95	mg/L	0.00
Spiked Amount 50.000			Recovery = 107.90%			
73) Terphenyl-d14	14.07	244	414427	52.74	mg/L	0.00
Spiked Amount 50.000			Recovery = 105.48%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	111211	48.70	mg/L	96
3) N-Nitrosodimethylamine	3.33	42	132283	49.68	mg/L	86
4) Pyridine	3.35	79	283528	50.04	mg/L	96
5) PGMEA	4.54	43	326595	49.42	mg/L	97
8) Phenol	5.61	94	268734	50.41	mg/L	89
9) Aniline	5.67	93	296925	48.15	mg/L	98
10) Bis(2-chloroethyl)ether	5.73	93	220765	49.51	mg/L	96
11) 2-Chlorophenol	5.81	128	225604	51.35	mg/L	99
12) 1,3-Dichlorobenzene	5.99	146	264603	50.41	mg/L	99
13) 1,4-Dichlorobenzene	6.05	146	271643	49.88	mg/L	99
14) Benzyl alcohol	6.20	108	137146	51.08	mg/L	90
15) 1,2-Dichlorobenzene	6.28	146	252091	50.77	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.30	99	143585	51.34	mg/L	99
17) 2-Methylphenol	6.35	108	191177	49.64	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.38	45	305555	49.24	mg/L #	97
19) 4-Methylphenol	6.52	107	251353	50.20	mg/L	97
20) N-Nitrosodi-n-propylamine	6.56	70	164088	51.43	mg/L	96
21) Hexachloroethane	6.66	117	105457	51.67	mg/L	91
24) Nitrobenzene	6.76	77	260703	51.19	mg/L	96
25) Isophorone	7.04	82	443663	52.27	mg/L	100
26) 2-Nitrophenol	7.15	139	127913	52.77	mg/L #	84
27) 2,4-Dimethylphenol	7.17	122	190706	51.14	mg/L	97
28) Benzoic acid	7.32	122	131411	51.71	mg/L	93
29) Bis(2-chloroethoxy)methane	7.30	93	259964	50.99	mg/L	97
30) 2,4-Dichlorophenol	7.44	162	191674	50.21	mg/L	97
31) 1,2,4-Trichlorobenzene	7.55	180	228562	49.99	mg/L	99
32) Naphthalene	7.64	128	646526	49.48	mg/L	100
33) 4-Chloroaniline	7.71	127	230423	50.43	mg/L	97
34) Hexachlorobutadiene	7.85	225	143673	50.88	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061339.D Vial: 12
Acq On : 11 Oct 2006 6:54 pm Operator: SC
Sample : 50PPM ICV/CCV 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 11:24:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 11:21:10 2006
Response via : Initial Calibration
DataAcq Meth : 8270

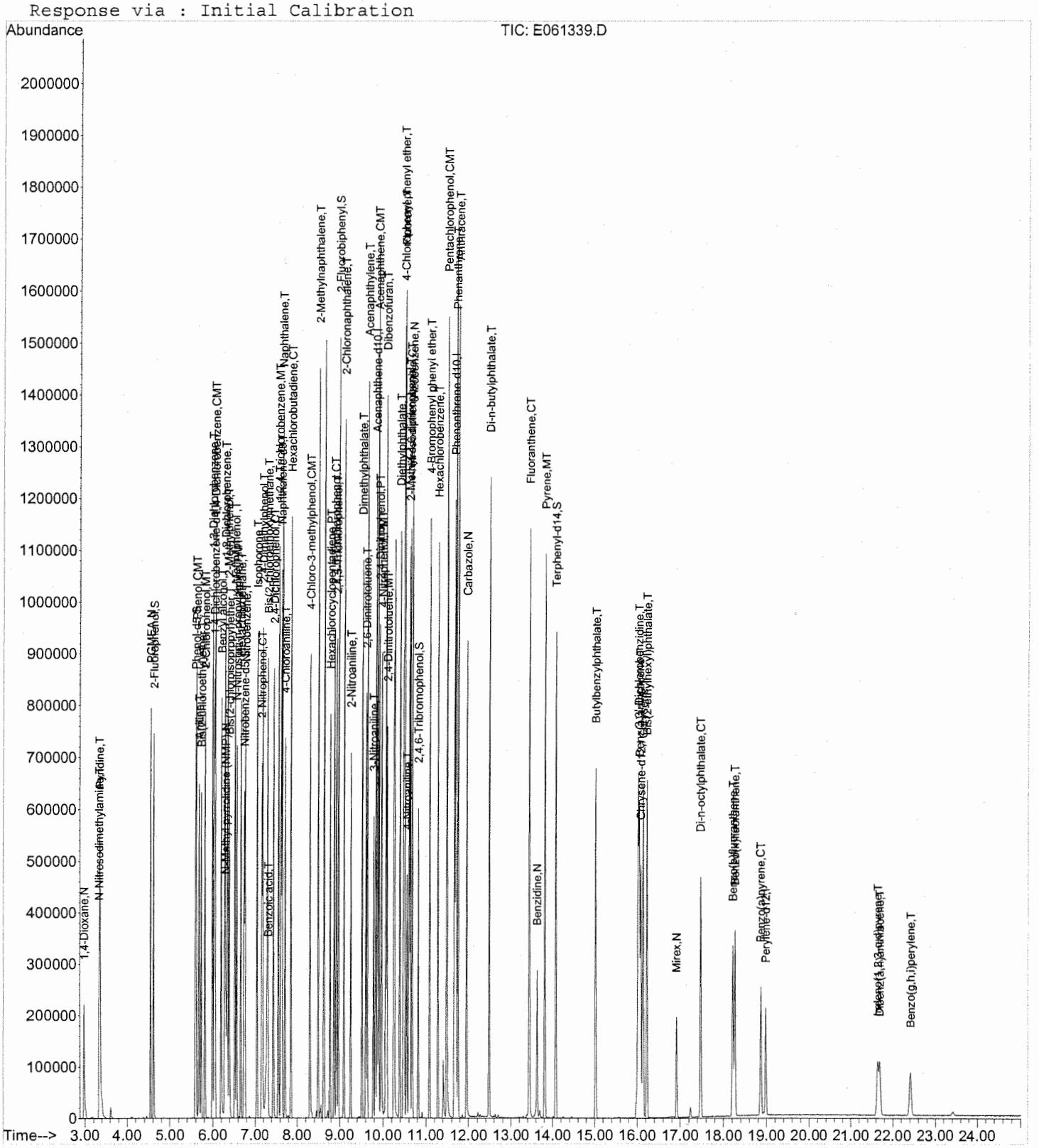
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.30	107	199051	53.18	mg/L		99
36)	2-Methylnaphthalene	8.49	142	461667	49.85	mg/L		100
38)	Hexachlorocyclopentadiene	8.78	237	148181	51.87	mg/L		98
39)	2,4,6-Trichlorophenol	8.87	196	155131	52.27	mg/L		99
40)	2,4,5-Trichlorophenol	8.92	196	167994	52.25	mg/L		97
42)	2-Chloronaphthalene	9.11	162	438622	50.91	mg/L		99
43)	2-Nitroaniline	9.26	65	136448	52.95	mg/L		97
44)	Dimethylphthalate	9.51	163	517771	52.03	mg/L		99
45)	Acenaphthylene	9.64	152	690001	50.32	mg/L		99
46)	2,6-Dinitrotoluene	9.61	165	122317	53.98	mg/L		96
47)	3-Nitroaniline	9.78	138	102313	52.34	mg/L		92
48)	Acenaphthene	9.87	154	420566	50.04	mg/L		99
49)	2,4-Dinitrophenol	9.90	184	170620	97.96	mg/L		92
50)	4-Nitrophenol	9.96	109	154171	103.13	mg/L		94
51)	Dibenzofuran	10.07	168	641327	50.17	mg/L		95
52)	2,4-Dinitrotoluene	10.09	165	162076	54.58	mg/L		87
53)	Fluorene	10.49	166	522665	50.82	mg/L		98
54)	Diethylphthalate	10.39	149	522083	51.99	mg/L		97
55)	4-Chlorophenyl phenyl ethe	10.48	204	271538	51.33	mg/L		95
56)	4-Nitroaniline	10.55	138	95350	54.29	mg/L		95
58)	2-Methyl-4,6-dinitrophenol	10.60	198	216935	111.52	mg/L		92
59)	N-Nitrosodiphenylamine	10.63	169	326872	47.14	mg/L		90
60)	Azobenzene	10.67	77	526939	51.72	mg/L		98
62)	4-Bromophenyl phenyl ether	11.08	248	157316	52.38	mg/L		93
63)	Hexachlorobenzene	11.28	284	159594	51.34	mg/L		94
64)	Pentachlorophenol	11.50	266	216157	101.26	mg/L		99
65)	Phenanthrene	11.70	178	760122	49.75	mg/L		100
66)	Anthracene	11.76	178	756265	51.43	mg/L		99
67)	Carbazole	11.96	167	492489	46.64	mg/L		100
68)	Di-n-butylphthalate	12.48	149	786022	52.85	mg/L		100
69)	Fluoranthene	13.44	202	670017	49.16	mg/L		98
71)	Benzidine	13.63	184	186288	55.52	mg/L	#	98
72)	Pyrene	13.82	202	674181	53.62	mg/L		99
74)	Butylbenzylphthalate	15.02	149	250084	54.60	mg/L		98
75)	3,3'-Dichlorobenzidine	16.02	252	226354	91.15	mg/L		99
76)	Benz(a)anthracene	16.05	228	436119	52.66	mg/L		99
77)	Chrysene	16.13	228	382904	49.44	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.22	149	300019	53.68	mg/L		99
79)	Mirex	16.91	272	43624	25.96	mg/L		96
81)	Di-n-octylphthalate	17.47	149	390743	54.91	mg/L		100
82)	Benzo(b)fluoranthene	18.22	252	248640	54.82	mg/L	#	96
83)	Benzo(k)fluoranthene	18.27	252	241097	53.76	mg/L	#	97
84)	Benzo(a)pyrene	18.86	252	193184	53.47	mg/L	#	96
85)	Indeno(1,2,3-c,d)pyrene	21.64	276	143600	48.23	mg/L	#	89
86)	Dibenz(a,h)anthracene	21.69	278	117657	46.38	mg/L	#	95
87)	Benzo(g,h,i)perylene	22.41	276	111626	45.27	mg/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061339.D BA061011.M Thu Oct 12 11:24:50 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061011\E061339.D Vial: 12
Acq On : 11 Oct 2006 6:54 pm Operator: SC
Sample : 50PPM ICV/CCV 8270 10/11/06 Inst : MSE
Misc : 23-MS-71-10 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 11:24 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 11:21:10 2006
Response via : Initial Calibration



Continuing Calibration Data

Injection Log

Directory: C:\MSDCHEM\1\DATA\E061025

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E061486.d	1.	STUN1025	TUNE;;;;;;;23-MS-...	25 Oct 2006 08:53
2	2	E061487.d	1.	SSTD050		25 Oct 2006 09:09
3	3	E061488.d	1.	50PPM APP II CCV		25 Oct 2006 09:41
4	4	E061489.d	1.	50PPM KEPONE CCV		25 Oct 2006 10:13
5	5	E061490.d	1.	MB 8270W 10/23/06		25 Oct 2006 10:45
6	6	E061491.d	1.	LCS 8270W 10/23/06		25 Oct 2006 11:18
7	7	E061492.d	1.	LCSD 8270W 10/23/06		25 Oct 2006 11:50
8	8	E061493.d	1.	P0600137-001 8270W 10/23/06		25 Oct 2006 12:22
9	9	E061494.d	1.	D0601625-002 8270W 10/23/06		25 Oct 2006 12:54
10	10	E061495.d	1.	D0601625-004 8270W 10/23/06		25 Oct 2006 13:26
11	11	E061496.d	1.	D0601625-005 8270W 10/23/06		25 Oct 2006 13:59
12	12	E061497.d	1.	D0601625-007 8270W 10/23/06		25 Oct 2006 14:31
13	13	E061498.d	1.	D0601625-008 8270W 10/23/06		25 Oct 2006 15:03
14	14	E061499.d	1.	D0601625-009 8270W 10/23/06		25 Oct 2006 15:36
15	15	E061500.d	1.	D0601637-001 8270W 10/23/06		25 Oct 2006 16:08
16	16	E061501.d	1.	D0601510-001 8270W 10/6/06		25 Oct 2006 16:40
17	17	E061502.d	1.	D0601625-002 1/50 8270W 10/...		25 Oct 2006 17:12
18	18	E061503.d	1.	D0601625-007 1/50 8270W 10/...		25 Oct 2006 17:45
19	19	E061504.d	1.	P0600146-001 625 10/23/06		25 Oct 2006 18:17
20	20	E061505.d	1.	P0600146-002 625 10/23/06		25 Oct 2006 18:49
21	21	E061506.d	1.	4PPM 8270 CCV		25 Oct 2006 19:21

8270 Analysis DW60091S

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600915	**Prep Lot:**		**Report Group:**	
Analysis Method:	DFTPP	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\TUNE.M	**Calibration ID:**	CAL1207
Title:	DFTPP Tuning Criteria	**Report List ID:**	LJ1247
Tune Ref:		**Method ID:**	MJ364
MB Ref:		**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 08:53	**Quant Date:**		**Vial:**	1
Run Type:	DFTPP			**Dilution:**	1.0
Lab ID:	DWG0600915-1			**Soln Conc. Units:**	

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	60	35.9	6420	Pass
68	69	0	2	0.0	0	Pass
69	198	0	100	40.8	7300	Pass
70	69	0	2	0.0	0	Pass
127	198	40	60	46.6	8343	Pass
197	198	0	1	0.0	0	Pass
198	198	100	100	100.0	17897	Pass
199	198	5	9	7.1	1267	Pass
275	198	10	30	29.3	5235	Pass
365	198	1	100	4.9	884	Pass
441	443	0	100	67.3	1746	Pass
442	198	40	100	69.5	12438	Pass
443	442	17	23	20.9	2595	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

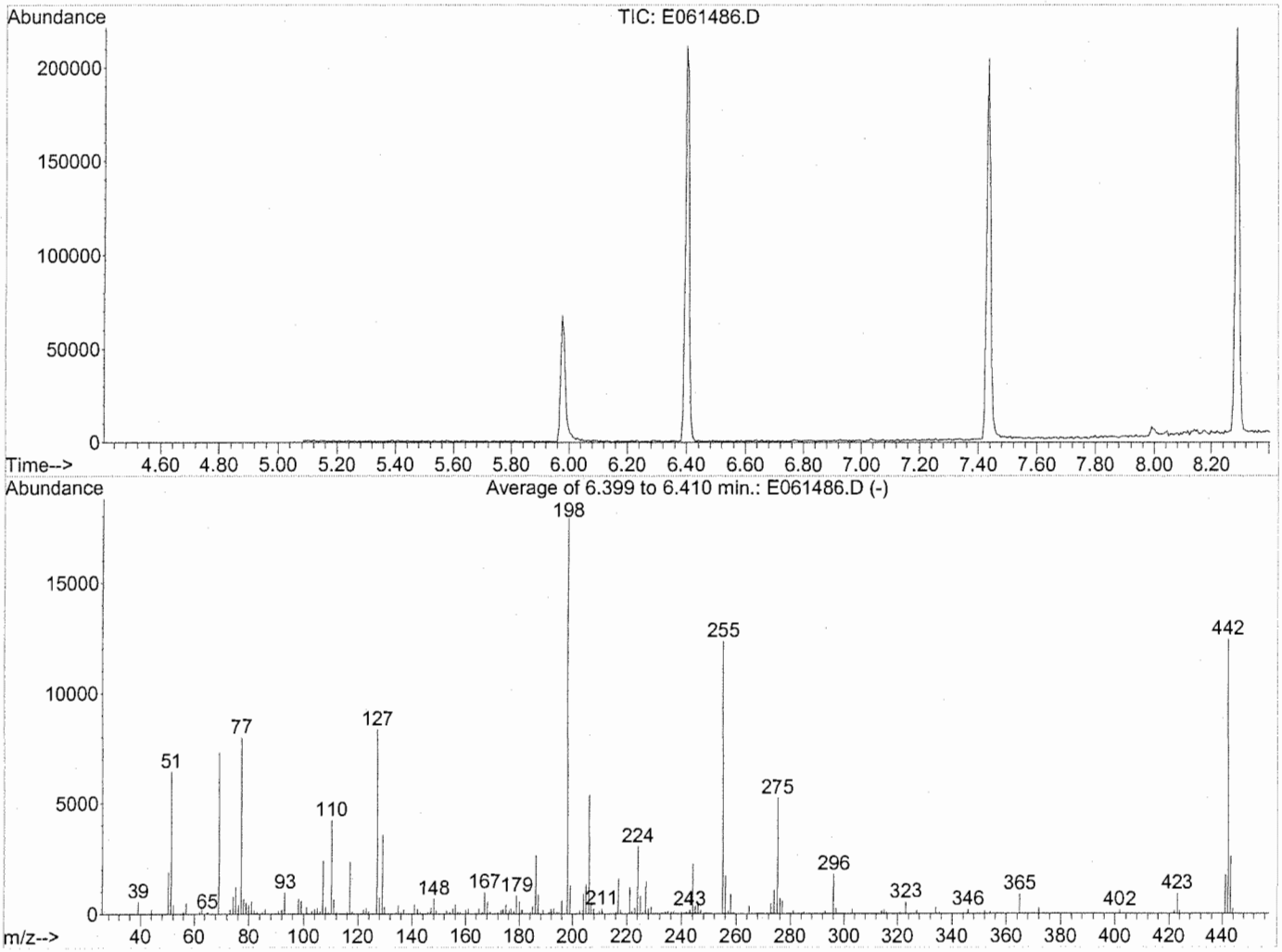
D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

DFTPP

Data File : C:\MSDCHEM\1\DATA\E061025\E061486.D Vial: 1
Acq On : 25 Oct 2006 8:53 am Operator: SC
Sample : STUN1025 Inst : MSE
Misc : TUNE;;;;;;;23-MS-67-2 Multiplr: 1.00
MS Integration Params: events.e
Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method

E. 10/26/06



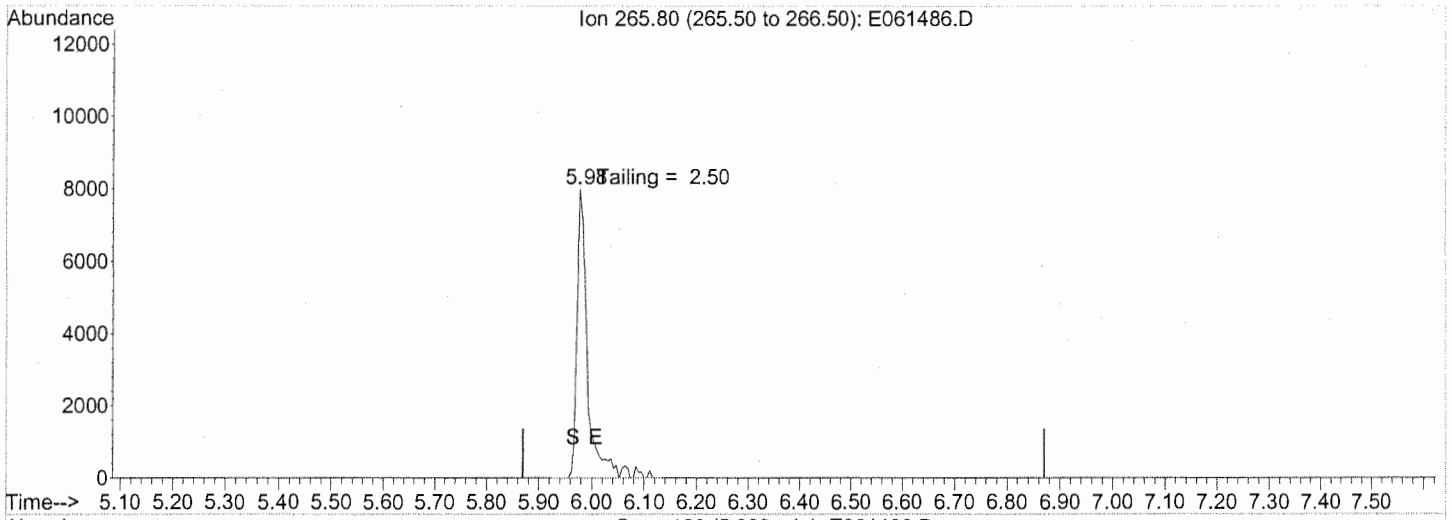
AutoFind: Scans 247, 248, 249; Background Corrected with Scan 235

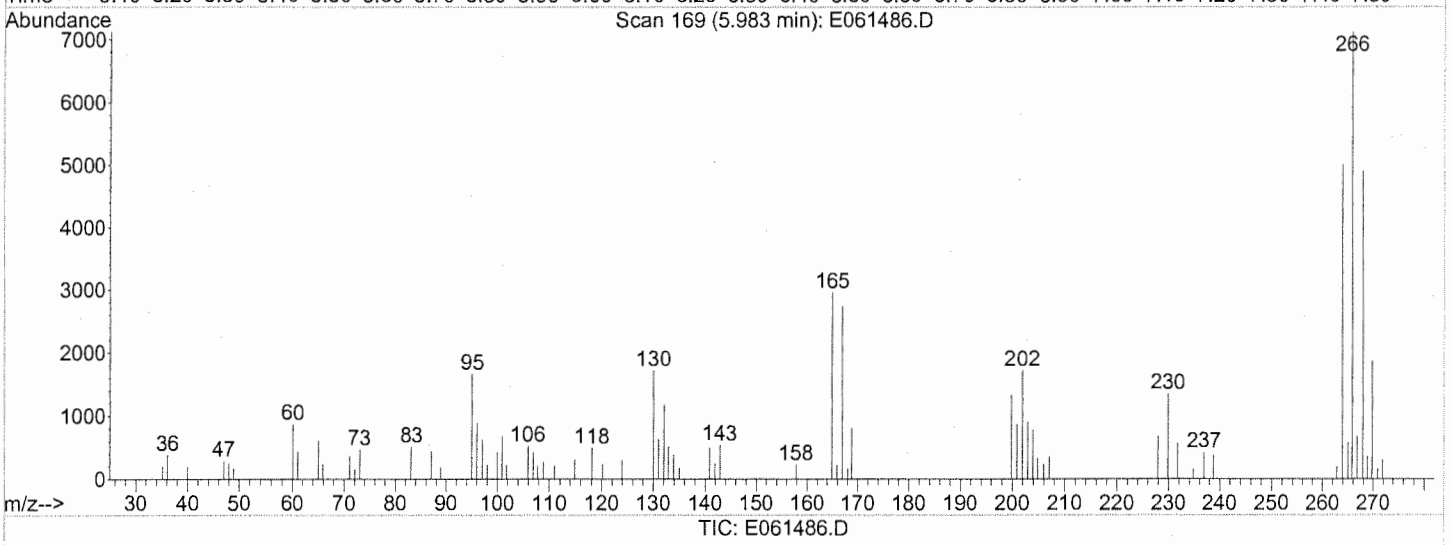
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.9	6420	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.8	7300	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	46.6	8343	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	17897	PASS
199	198	5	9	7.1	1267	PASS
275	198	10	30	29.3	5235	PASS
365	198	1	100	4.9	884	PASS
441	443	0.01	100	67.3	1746	PASS
442	198	40	100	69.5	12438	PASS
443	442	17	23	20.9	2595	PASS

E061486.D TUNE.M Thu Oct 26 09:35:32 2006

Data File : C:\MSDCHEM\1\DATA\E061025\E061486.D Vial: 1
Acq On : 25 Oct 2006 8:53 am Operator: SC
Sample : STUN1025 Inst : MSE
Misc : TUNE;;;;;;;23-MS-67-2 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Oct 26 9:34 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061486.D

(1) Pentachlorophenol

5.98min 0.00

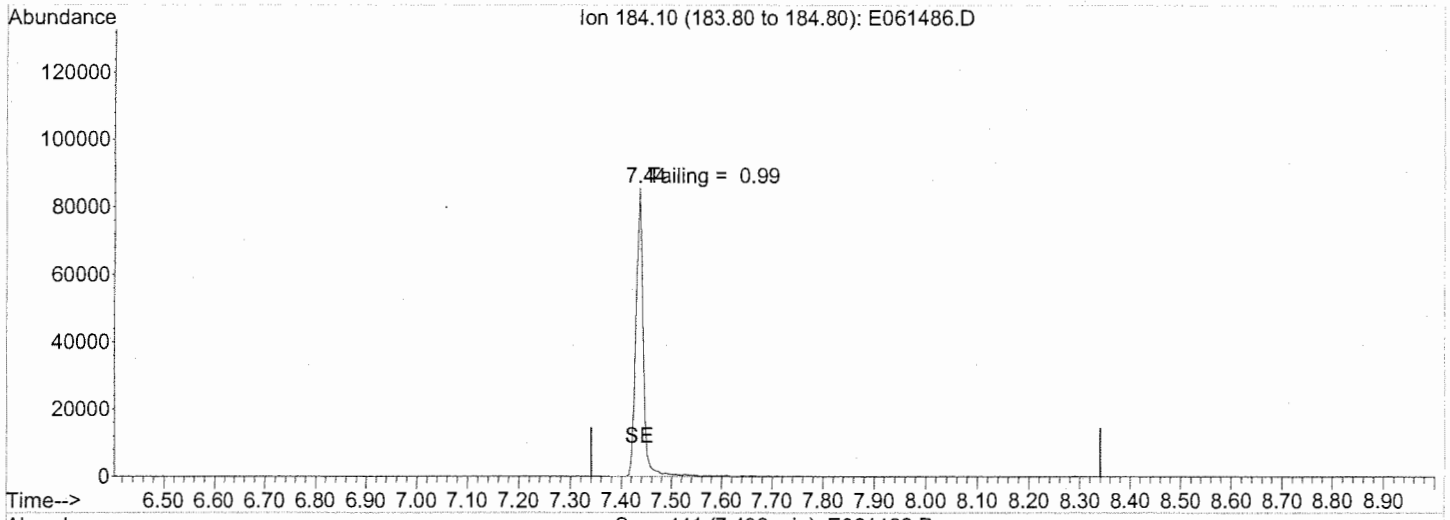
response 96539

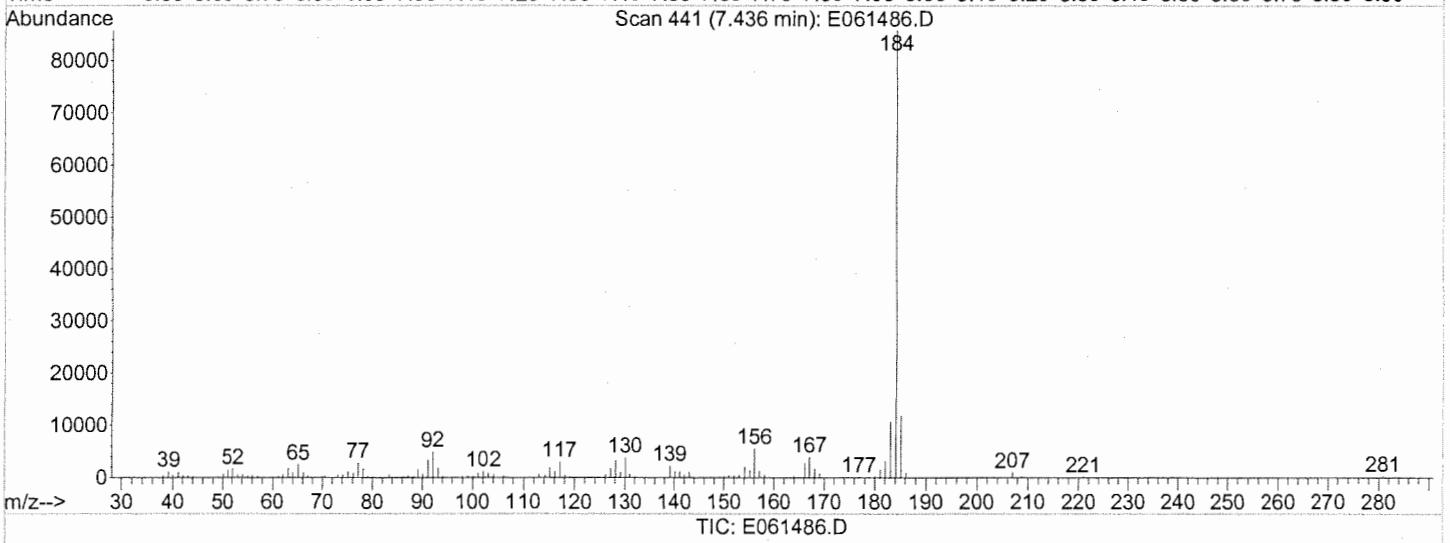
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

E061486.D TUNE.M Thu Oct 26 09:35:03 2006

Data File : C:\MSDCHEM\1\DATA\E061025\E061486.D Vial: 1
Acq On : 25 Oct 2006 8:53 am Operator: SC
Sample : STUN1025 Inst : MSE
Misc : TUNE;;;;;;;23-MS-67-2 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Oct 26 9:34 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061486.D

(2) Benzidine

7.44min 0.00

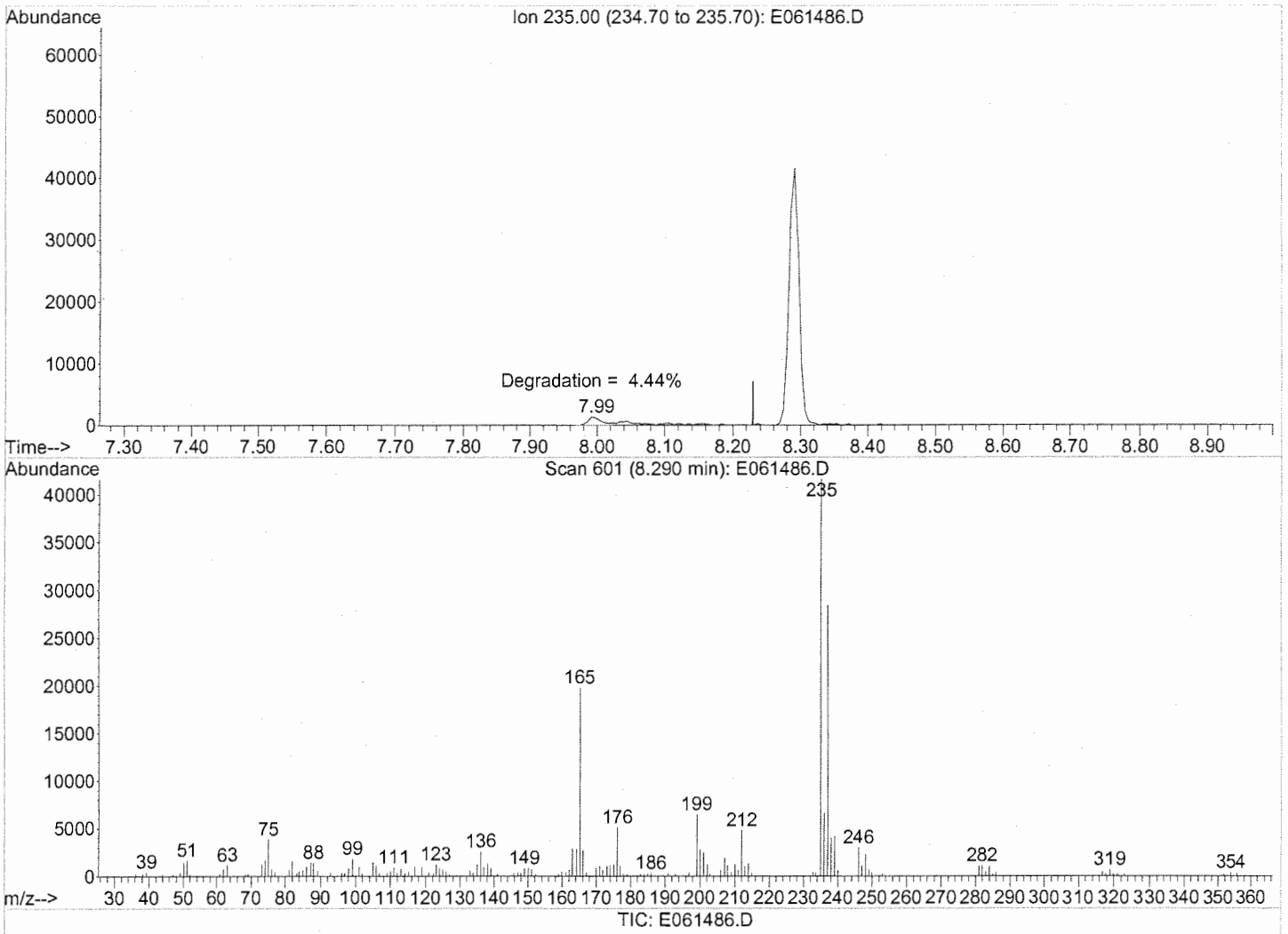
response 851251

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

E061486.D TUNE.M Thu Oct 26 09:35:14 2006

Data File : C:\MSDCHEM\1\DATA\E061025\E061486.D Vial: 1
Acq On : 25 Oct 2006 8:53 am Operator: SC
Sample : STUN1025 Inst : MSE
Misc : TUNE;;;;;;;23-MS-67-2 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Oct 26 9:34 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration



TIC: E061486.D

(4) 4,4-DDT

8.29min 0.00

response 427894

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

E061486.D TUNE.M Thu Oct 26 09:35:25 2006

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600915	**Prep Lot:**		**Report Group:**	
Analysis Method:	8270C	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061487.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 09:09	**Quant Date:**	10/25/2006 09:39	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0600915-2			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	-0.05?	152	184095	40.00	OK
2	Naphthalene-d8	7.54	-0.07?	136	687786	40.00	OK
3	Acenaphthene-d10	9.75	-0.07?	164	435633	40.00	OK
4	Phenanthrene-d10	11.58	-0.08?	188	699783	40.00	OK
5	Chrysene-d12	15.96	-0.12?	240	512840	40.00	OK
6	Perylene-d12	18.84	-0.14?	264	352770	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	2-Fluorophenol	4.61			112	233307	47.18		23-115 NA	
1	Phenol-d5	5.55			99	326922	49.48		23-121 NA	
2	Nitrobenzene-d5	6.67			82	310787	51.61		42-122 NA	
3	2-Fluorobiphenyl	8.89			172	652336	49.79		47-110 NA	
4	2,4,6-Tribromophenol	10.74			330	90819	57.20		31-112 NA	
5	Terphenyl-d14	13.97			244	665583	48.94		37-130 NA	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.00			88	169210	55.69			
1	N-Nitrosodimethylamine	3.35			42	184271	52.00			
1	Pyridine	3.37			79	413972	54.90			
1	PGMEA	4.54			43	451288	51.31			
1	Phenol	5.57			94	354040	49.91			
1	Aniline	5.63			93	335572	40.89			
1	Bis(2-chloroethyl) Ether	5.68			93	288998	48.70			
1	2-Chlorophenol	5.76			128	290565	49.70			
1	1,3-Dichlorobenzene	5.94			146	348735	49.92			
1	1,4-Dichlorobenzene	5.99			146	357420	49.32			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of componnd

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061487.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 09:09	**Quant Date:**	10/25/2006 09:39	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0600915-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.14			108	187180	52.39			
1	1,2-Dichlorobenzene	6.22			146	328081	49.65			
1	1-Methyl-2-pyrrolidinone	6.23			99	196461	52.79			
1	2-Methylphenol	6.29			108	247834	48.36			
1	Bis(2-Chloroisopropyl)ether	6.33			45	410707	49.74			
1	4-Methylphenol	6.45			107	322866	48.45			
1	N-Nitrosodi-n-propylamine	6.50			70	229210	53.98			
1	Hexachloroethane	6.60			117	141199	51.99			
2	Nitrobenzene	6.69			77	348811	52.45			
2	Isophorone	6.97			82	608994	54.95			
2	2-Nitrophenol	7.08			139	163082	51.53			
2	2,4-Dimethylphenol	7.11			122	240210	49.34			
2	Benzoic acid	7.23			122	129204	38.94			
2	bis(2-Chloroethoxy)methane	7.23			93	328188	49.30			
2	2,4-Dichlorophenol	7.37			162	241171	48.39			
2	1,2,4-Trichlorobenzene	7.48			180	307007	51.43			
2	Naphthalene	7.57			128	836756	49.05			
2	4-Chloroaniline	7.64			127	246078	41.25			
2	Hexachlorobutadiene	7.78			225	197511	53.57			
2	4-Chloro-3-methylphenol	8.23			107	259436	53.09			
2	2-Methylnaphthalene	8.42			142	602354	49.81			
3	Hexachlorocyclopentadiene	8.70			237	121075	32.29			
3	2,4,6-Trichlorophenol	8.80			196	202087	51.87			
3	2,4,5-Trichlorophenol	8.85			196	209064	49.54			
3	2-Chloronaphthalene	9.03			162	569656	50.38			
3	2-Nitroaniline	9.18			65	165499	48.93			
3	Dimethyl Phthalate	9.44			163	686758	52.58			
3	Acenaphthylene	9.56			152	886675	49.26			
3	2,6-Dinitrotoluene	9.53			165	159115	53.49			
3	3-Nitroaniline	9.70			138	75988	29.62			
3	Acenaphthene	9.79			154	547175	49.60			
3	2,4-Dinitrophenol	9.82			184	168672	75.47			
3	4-Nitrophenol	9.88			109	171751	87.53			
3	Dibenzofuran	9.98			168	825023	49.17			
3	2,4-Dinitrotoluene	10.02			165	207886	53.34			
3	Fluorene	10.42			166	682742	50.58			
3	Diethyl Phthalate	10.31			149	711685	53.99			
3	4-Chlorophenyl Phenyl Ether	10.40			204	369758	53.25			
3	4-Nitroaniline	10.47			138	80675	34.99			
4	2-Methyl-4,6-dinitrophenol	10.52			198	247987	97.62			
4	N-Nitrosodiphenylamine	10.55			169	388078	42.85			
4	Azobenzene	10.59			77	715482	53.77			
4	4-Bromophenyl Phenyl Ether	11.01			248	218081	55.61			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compouud

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061487.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 09:09	**Quant Date:**	10/25/2006 09:39	**Vial:**	2
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0600915-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.20			284	222968	54.92			
4	Pentachlorophenol	11.42			266	277155	99.42			
4	Phenanthrene	11.61			178	990580	49.65			
4	Anthracene	11.67			178	977595	50.90			
4	Carbazole	11.87			167	355791	27.83			
4	Di-n-butyl Phthalate	12.39			149	1166283	60.05			
4	Fluoranthene	13.34			202	983145	55.24			
5	Benzidine	13.53			184	119925	20.65			
5	Pyrene	13.71			202	998316	45.88			
5	Butyl Benzyl Phthalate	14.92			149	453788	57.24			
5	3,3'-Dichlorobenzidine	15.90			252	340147	80.09			
5	Benz(a)anthracene	15.93			228	795004	55.46			
5	Chrysene	16.02			228	706365	52.69			
5	Bis(2-ethylhexyl) Phthalate	16.12			149	636931	65.85			
5	Mirex	16.79			272	100678	34.61			
6	Di-n-octyl Phthalate	17.36			149	921447	51.92			
6	Benzo(b)fluoranthene	18.09			252	562712**m**	49.75			
6	Benzo(k)fluoranthene	18.14			252	564664	50.48			
6	Benzo(a)pyrene	18.72			252	464807	51.59			
6	Indeno(1,2,3-cd)pyrene	21.42			276	442850	59.65			
6	Dibenz(a,h)anthracene	21.48			278	353337	55.85			
6	Benzo(g,h,i)perylene	22.18			276	360950	58.69			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL1207
Method ID: MJ360

DataFile: C:\MSDCHEM\1\DATA\E061025\E061487.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
1,4-Dioxane		MS	AverageRF	40		0.660	0.735	11.4			
N-Nitrosodimethylamine		TRG	AverageRF	40		0.770	0.801	4.0			
Pyridine		TRG	AverageRF	40		1.638	1.799	9.8			
PGMEA		TRG	AverageRF	40		1.911	1.961	2.6			
2-Fluorophenol		SURR	AverageRF	40		1.074	1.014	-5.6			
Phenol-d5		SURR	AverageRF	40		1.435	1.421	-1.0			
Phenol	CCC	MS	AverageRF	20		1.541	1.539	-0.2			
Aniline		TRG	AverageRF	40		1.783	1.458	-18.2			
Bis(2-chloroethyl) Ether		TRG	AverageRF	40		1.289	1.256	-2.6			
2-Chlorophenol		MS	AverageRF	40		1.270	1.263	-0.6			
1,3-Dichlorobenzene		TRG	AverageRF	40		1.518	1.515	-0.2			
1,4-Dichlorobenzene	CCC	MS	AverageRF	20		1.575	1.553	-1.4			
Benzyl alcohol		TRG	AverageRF	40		0.776	0.813	4.8			
1,2-Dichlorobenzene		TRG	AverageRF	40		1.436	1.426	-0.7			
1-Methyl-2-pyrrolidinone		TRG	AverageRF	40		0.809	0.854	5.6			
2-Methylphenol		TRG	AverageRF	40		1.114	1.077	-3.3			
Bis(2-Chloroisopropyl)ether		TRG	AverageRF	40		1.794	1.785	-0.5			
4-Methylphenol		TRG	AverageRF	40		1.448	1.403	-3.1			
N-Nitrosodi-n-propylamine	SPCC	MS	AverageRF	40	0.05	0.923	0.996	8.0			
Hexachloroethane		TRG	AverageRF	40		0.590	0.614	4.0			
Nitrobenzene-d5		SURR	AverageRF	40		0.350	0.361	3.2			
Nitrobenzene		TRG	AverageRF	40		0.387	0.406	4.9			
Isophorone		TRG	AverageRF	40		0.644	0.708	9.9			
2-Nitrophenol	CCC	TRG	AverageRF	20		0.184	0.190	3.1			
2,4-Dimethylphenol		TRG	AverageRF	40		0.283	0.279	-1.3			
Benzoic acid		TRG	AverageRF	40		0.193	0.150	-22.1			
bis(2-Chloroethoxy)methane		TRG	AverageRF	40		0.387	0.382	-1.4			
2,4-Dichlorophenol	CCC	TRG	AverageRF	20		0.290	0.281	-3.2			
1,2,4-Trichlorobenzene		MS	AverageRF	40		0.347	0.357	2.9			
Naphthalene		TRG	AverageRF	40		0.992	0.973	-1.9			
4-Chloroaniline		TRG	AverageRF	40		0.347	0.286	-17.5			
Hexachlorobutadiene	CCC	TRG	AverageRF	20		0.214	0.230	7.1			
4-Chloro-3-methylphenol		MS	AverageRF	40		0.284	0.302	6.2			
2-Methylnaphthalene		TRG	AverageRF	40		0.703	0.701	-0.4			
Hexachlorocyclopentadiene	SPCC	TRG	AverageRF	40	0.05	0.344	0.222	-35.4			
2,4,6-Trichlorophenol	CCC	TRG	AverageRF	20		0.358	0.371	3.7			
2,4,5-Trichlorophenol		TRG	AverageRF	40		0.388	0.384	-0.9			
2-Fluorobiphenyl		SURR	AverageRF	40		1.203	1.198	-0.4			
2-Chloronaphthalene		TRG	AverageRF	40		1.038	1.046	0.8			
2-Nitroaniline		TRG	AverageRF	40		0.311	0.304	-2.I			
Dimethyl Phthalate		TRG	AverageRF	40		1.199	1.261	5.2			
2,6-Dinitrotoluene		TRG	AverageRF	40		0.273	0.292	7.0			
Acenaphthylene		TRG	AverageRF	40		1.653	1.628	-1.5			
3-Nitroaniline		TRG	AverageRF	40		0.236	0.140	-40.8 *			
Acenaphthene	CCC	MS	AverageRF	20		1.013	1.005	-0.8			
2,4-Dinitrophenol	SPCC	TRG	Linear	40	0.05	0.181	0.155		75.47	100.0	-24.5
4-Nitrophenol	SPCC	MS	AverageRF	40	0.05	0.180	0.158	-12.5			
Dibenzofuran		TRG	AverageRF	40		1.541	1.515	-1.7			

3 Compounds Failed CCV Criteria

Calibration Verification Report

Calibration ID: CAL1207
Method ID: MJ360
DataFile: C:\MSDCHEM\1\DATA\E061025\E061487.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
2,4-Dinitrotoluene		MS	AverageRF	40		0.358	0.382	6.7			
Diethyl Phthalate		TRG	AverageRF	40		1.210	1.307	8.0			
4-Chlorophenyl Phenyl Ether		TRG	AverageRF	40		0.638	0.679	6.5			
Fluorene		TRG	AverageRF	40		1.239	1.254	1.2			
4-Nitroaniline		TRG	AverageRF	40		0.212	0.148	-30.0			
2-Methyl-4,6-dinitrophenol		TRG	AverageRF	40		0.145	0.142	-2.4			
N-Nitrosodiphenylamine	CCC	TRG	AverageRF	40		0.518	0.444	-14.3			
Azobenzene		TRG	AverageRF	40		0.761	0.818	7.5			
2,4,6-Tribromophenol		SURR	AverageRF	40		0.091	0.104	14.4			
4-Bromophenyl Phenyl Ether		TRG	AverageRF	40		0.224	0.249	11.2			
Hexachlorobenzene		TRG	AverageRF	40		0.232	0.255	9.8			
Pentachlorophenol	CCC	MS	AverageRF	20		0.159	0.158	-0.6			
Phenanthrene		TRG	AverageRF	40		1.141	1.132	-0.7			
Anthracene		TRG	AverageRF	40		1.098	1.118	1.8			
Carbazole		TRG	Linear	40		0.730	0.407		27.83	50.00	-44.3 *
Di-n-butyl Phthalate		TRG	AverageRF	40		1.110	1.333	20.1			
Fluoranthene	CCC	TRG	AverageRF	20		1.017	1.124	10.5			
Benzidine		TRG	AverageRF	40		0.453	0.094	-79.3 *			
Pyrene		MS	AverageRF	40		1.697	1.557	-8.2			
Terphenyl-d14		SURR	AverageRF	40		1.061	1.038	-2.1			
Butyl Benzyl Phthalate		TRG	AverageRF	40		0.618	0.708	14.5			
3,3'-Dichlorobenzidine		TRG	Linear	40		0.299	0.265		80.09	100.0	-19.9
Benz(a)anthracene		TRG	AverageRF	40		1.118	1.240	10.9			
Chrysene		TRG	AverageRF	40		1.046	1.102	5.4			
Bis(2-ethylhexyl) Phthalate		TRG	AverageRF	40		0.754	0.994	31.7			
Mirex		TRG	AverageRF	40		0.227	0.314	38.4			
Di-n-octyl Phthalate	CCC	TRG	AverageRF	20		2.012	2.090	3.8			
Benzo(b)fluoranthene		TRG	AverageRF	40		1.283	1.276	-0.5			
Benzo(k)fluoranthene		TRG	AverageRF	40		1.268	1.281	1.0			
Benzo(a)pyrene	CCC	TRG	AverageRF	20		1.022	1.054	3.2			
Indeno(1,2,3-cd)pyrene		TRG	AverageRF	40		0.842	1.004	19.3			
Dibenz(a,h)anthracene		TRG	AverageRF	40		0.717	0.801	11.7			
Benzo(g,h,i)perylene		TRG	AverageRF	40		0.697	0.819	17.4			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	20.0
Calculated Average %D =	9.5

3 Compounds Failed CCV Criteria

Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Multiple Level Calibration

E. 10/26/06

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	-0.01
2	N	1,4-Dioxane	0.660	0.735	-11.4	135	0.02
3	T	N-Nitrosodimethylamine	0.770	0.801	-4.0	125	0.02
4	T	Pyridine	1.638	1.799	-9.8	131	0.02
5	N	PGMEA	1.911	1.961	-2.6	124	0.00
6	S	2-Fluorophenol	1.074	1.014	5.6	111	0.00
7	S	Phenol-d5	1.435	1.421	1.0	118	0.00
8	CMT	Phenol	1.541	1.539	0.1#	119	0.00
9	T	Aniline	1.783	1.458	18.2	100	0.00
10	T	Bis(2-chloroethyl)ether	1.289	1.256	2.6	119	0.04
11	MT	2-Chlorophenol	1.270	1.263	0.6	117	-0.01
12	T	1,3-Dichlorobenzene	1.518	1.515	0.2	119	0.00
13	CMT	1,4-Dichlorobenzene	1.575	1.553	1.4#	120	-0.01
14	T	Benzyl alcohol	0.776	0.813	-4.8	123	-0.01
15	T	1,2-Dichlorobenzene	1.436	1.426	0.7	118	-0.01
16	N	N-Methyl pyrrolidine (NMP)	0.809	0.854	-5.6	124	0.00
17	T	2-Methylphenol	1.114	1.077	3.3	116	0.00
18	T	Bis(2-chloroisopropyl)ether	1.794	1.785	0.5	121	-0.01
19	T	4-Methylphenol	1.448	1.403	3.1	114	0.00
20	PMT	N-Nitrosodi-n-propylamine	0.923	0.996	-7.9	127	-0.01
21	T	Hexachloroethane	0.590	0.614	-4.1	125	-0.01
22	I	Naphthalene-d8	1.000	1.000	0.0	120	-0.01
23	S	Nitrobenzene-d5	0.350	0.361	-3.1	120	0.00
24	T	Nitrobenzene	0.387	0.406	-4.9	122	-0.01
25	T	Isophorone	0.644	0.708	-9.9	126	-0.01
26	CT	2-Nitrophenol	0.184	0.190	-3.3#	115	-0.01
27	T	2,4-Dimethylphenol	0.283	0.279	1.4	110	0.00
28	T	Benzoic acid	0.193	0.150	22.3#	90	0.01
29	T	Bis(2-chloroethoxy)methane	0.387	0.382	1.3	115	-0.01
30	CT	2,4-Dichlorophenol	0.290	0.281	3.1#	110	0.00
31	MT	1,2,4-Trichlorobenzene	0.347	0.357	-2.9	122	-0.01
32	T	Naphthalene	0.992	0.973	1.9	116	-0.01
33	T	4-Chloroaniline	0.347	0.286	17.6	94	-0.01
34	CT	Hexachlorobutadiene	0.214	0.230	-7.5#	126	-0.01
35	CMT	4-Chloro-3-methylphenol	0.284	0.302	-6.3#	120	-0.01
36	T	2-Methylnaphthalene	0.703	0.701	0.3	116	-0.01
37	I	Acenaphthene-d10	1.000	1.000	0.0	120	-0.02
38	PT	Hexachlorocyclopentadiene	0.344	0.222	35.5#	72	-0.02
39	CT	2,4,6-Trichlorophenol	0.358	0.371	-3.6#	117	-0.01
40	T	2,4,5-Trichlorophenol	0.388	0.384	1.0	112	-0.01
41	S	2-Fluorobiphenyl	1.203	1.198	0.4	117	-0.02
42	T	2-Chloronaphthalene	1.038	1.046	-0.8	118	-0.01
43	T	2-Nitroaniline	0.311	0.304	2.3	111	-0.02
44	T	Dimethylphthalate	1.199	1.261	-5.2	122	-0.01
45	T	Acenaphthylene	1.653	1.628	1.5	114	-0.01
46	T	2,6-Dinitrotoluene	0.273	0.292	-7.0	118	-0.02
47	T	3-Nitroaniline	0.236	0.140	40.7#	67	-0.02
48	CMT	Acenaphthene	1.013	1.005	0.8#	118	-0.02

(#) = Out of Range

Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	PT	2,4-Dinitrophenol	0.181	0.155	14.4	90	-0.02
50	PMT	4-Nitrophenol	0.180	0.158	12.2	100	-0.02
51	T	Dibenzofuran	1.541	1.515	1.7	115	-0.02
52	MT	2,4-Dinitrotoluene	0.358	0.382	-6.7	120	-0.01
53	T	Fluorene	1.239	1.254	-1.2	116	-0.01
54	T	Diethylphthalate	1.210	1.307	-8.0	125	-0.02
55	T	4-Chlorophenyl phenyl ether	0.638	0.679	-6.4	124	-0.02
56	T	4-Nitroaniline	0.212	0.148	30.2#	77	-0.01
57	I	Phenanthrene-d10	1.000	1.000	0.0	118	-0.02
58	T	2-Methyl-4,6-dinitrophenol	0.145	0.142	2.1	108	-0.01
59	CT	N-Nitrosodiphenylamine	0.518	0.444	14.3#	104	-0.02
60	N	Azobenzene	0.761	0.818	-7.5	125	-0.02
61	S	2,4,6-Tribromophenol	0.091	0.104	-14.3	122	-0.01
62	T	4-Bromophenyl phenyl ether	0.224	0.249	-11.2	127	-0.02
63	T	Hexachlorobenzene	0.232	0.255	-9.9	128	-0.02
64	CMT	Pentachlorophenol	0.159	0.158	0.6#	114	-0.02
65	T	Phenanthrene	1.141	1.132	0.8	116	-0.02
66	T	Anthracene	1.098	1.118	-1.8	115	-0.02
67	N	Carbazole	0.730	0.407	44.2#	66	-0.02
68	T	Di-n-butylphthalate	1.110	1.333	-20.1#	133	-0.02
69	CT	Fluoranthene	1.017	1.124	-10.5#	122	-0.03
70	I	Chrysene-d12	1.000	1.000	0.0	142	-0.04
71	N	Benzidine	0.453	0.094	79.2#	33#	-0.03
72	MT	Pyrene	1.697	1.557	8.2	129	-0.03
73	S	Terphenyl-d14	1.061	1.038	2.2	135	-0.03
74	T	Butylbenzylphthalate	0.618	0.708	-14.6	153#	-0.03
75	T	3,3'-Dichlorobenzidine	0.299	0.265	11.4	112	-0.04
76	T	Benz(a)anthracene	1.118	1.240	-10.9	153#	-0.04
77	T	Chrysene	1.046	1.102	-5.4	146	-0.03
78	T	Bis(2-ethylhexyl)phthalate	0.754	0.994	-31.8#	172#	-0.03
79	N	Mirex	0.227	0.314	-38.3#	186#	-0.04
80	I	Perylene-d12	1.000	1.000	0.0	183#	-0.05
81	CT	Di-n-octylphthalate	2.012	2.090	-3.9#	178#	-0.04
82	T	Benzo(b)fluoranthene	1.283	1.276	0.5	170#	-0.04
83	T	Benzo(k)fluoranthene	1.268	1.281	-1.0	178#	-0.04
84	CT	Benzo(a)pyrene	1.022	1.054	-3.1#	174#	-0.05
85	T	Indeno(1,2,3-c,d)pyrene	0.842	1.004	-19.2	211#	-0.07
86	T	Dibenz(a,h)anthracene	0.717	0.801	-11.7	195#	-0.07
87	T	Benzo(g,h,i)perylene	0.697	0.819	-17.5	211#	-0.08

(#) = Out of Range SPCC's out = 0 CCC's out = 13
E061487.D BA061011.M Wed Oct 25 09:39:33 2006 Page 2

Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 09:35:43 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	184095	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	687786	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.75	164	435633	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	699783	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	512840	40.00	mg/L	-0.04
80) Perylene-d12	18.84	264	352770	40.00	mg/L	-0.05
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	233307	47.18	mg/L	0.00
Spiked Amount 50.000			Recovery = 94.36%			
7) Phenol-d5	5.55	99	326922	49.48	mg/L	0.00
Spiked Amount 50.000			Recovery = 98.96%			
23) Nitrobenzene-d5	6.67	82	310787	51.61	mg/L	0.00
Spiked Amount 50.000			Recovery = 103.22%			
41) 2-Fluorobiphenyl	8.89	172	652336	49.79	mg/L	-0.02
Spiked Amount 50.000			Recovery = 99.58%			
61) 2,4,6-Tribromophenol	10.74	330	90819	57.20	mg/L	-0.01
Spiked Amount 50.000			Recovery = 114.40%			
73) Terphenyl-d14	13.97	244	665583	48.94	mg/L	-0.03
Spiked Amount 50.000			Recovery = 97.88%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	169210	55.69	mg/L	99
3) N-Nitrosodimethylamine	3.35	42	184271	52.00	mg/L	97
4) Pyridine	3.37	79	413972	54.90	mg/L	97
5) PGMEA	4.54	43	451288	51.31	mg/L	99
8) Phenol	5.57	94	354040	49.91	mg/L	95
9) Aniline	5.63	93	335572	40.89	mg/L	96
10) Bis(2-chloroethyl)ether	5.68	93	288998	48.70	mg/L	97
11) 2-Chlorophenol	5.76	128	290565	49.70	mg/L	100
12) 1,3-Dichlorobenzene	5.94	146	348735	49.92	mg/L	98
13) 1,4-Dichlorobenzene	5.99	146	357420	49.32	mg/L	100
14) Benzyl alcohol	6.14	108	187180	52.39	mg/L	99
15) 1,2-Dichlorobenzene	6.22	146	328081	49.65	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.23	99	196461	52.79	mg/L	99
17) 2-Methylphenol	6.29	108	247834	48.36	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.33	45	410707	49.74	mg/L	98
19) 4-Methylphenol	6.45	107	322866	48.45	mg/L	98
20) N-Nitrosodi-n-propylamine	6.50	70	229210	53.98	mg/L	96
21) Hexachloroethane	6.60	117	141199	51.99	mg/L	96
24) Nitrobenzene	6.69	77	348811	52.45	mg/L	98
25) Isophorone	6.97	82	608994	54.95	mg/L	98
26) 2-Nitrophenol	7.08	139	163082	51.53	mg/L #	76
27) 2,4-Dimethylphenol	7.11	122	240210	49.34	mg/L	97
28) Benzoic acid	7.23	122	129204	38.94	mg/L	98
29) Bis(2-chloroethoxy)methane	7.23	93	328188	49.30	mg/L	92
30) 2,4-Dichlorophenol	7.37	162	241171	48.39	mg/L	99
31) 1,2,4-Trichlorobenzene	7.48	180	307007	51.43	mg/L	100
32) Naphthalene	7.57	128	836756	49.05	mg/L	100
33) 4-Chloroaniline	7.64	127	246078	41.25	mg/L	99
34) Hexachlorobutadiene	7.78	225	197511	53.57	mg/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 09:35:43 2006 Quant Results File: BA061011.RES

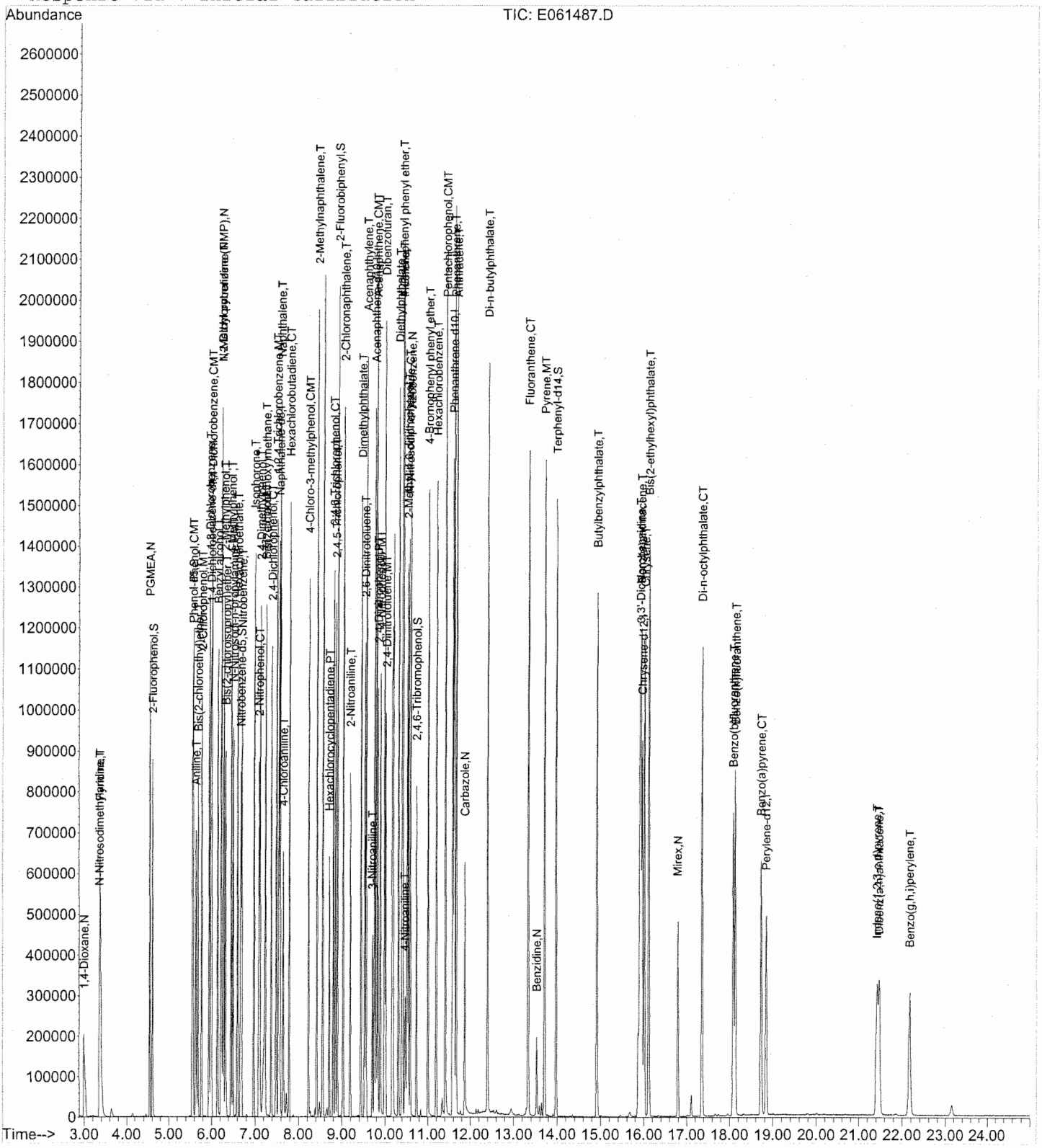
Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
35) 4-Chloro-3-methylphenol	8.23	107	259436	53.09 mg/L	98
36) 2-Methylnaphthalene	8.42	142	602354	49.81 mg/L	99
38) Hexachlorocyclopentadiene	8.70	237	121075	32.29 mg/L	98
39) 2,4,6-Trichlorophenol	8.80	196	202087	51.87 mg/L	100
40) 2,4,5-Trichlorophenol	8.85	196	209064	49.54 mg/L	98
42) 2-Chloronaphthalene	9.03	162	569656	50.38 mg/L	99
43) 2-Nitroaniline	9.18	65	165499	48.93 mg/L	96
44) Dimethylphthalate	9.44	163	686758	52.58 mg/L	98
45) Acenaphthylene	9.56	152	886675	49.26 mg/L	100
46) 2,6-Dinitrotoluene	9.53	165	159115	53.49 mg/L	95
47) 3-Nitroaniline	9.70	138	75988	29.62 mg/L	99
48) Acenaphthene	9.79	154	547175	49.60 mg/L	99
49) 2,4-Dinitrophenol	9.82	184	168672	75.47 mg/L	93
50) 4-Nitrophenol	9.88	109	171751	87.53 mg/L	95
51) Dibenzofuran	9.98	168	825023	49.17 mg/L	99
52) 2,4-Dinitrotoluene	10.02	165	207886	53.34 mg/L	98
53) Fluorene	10.42	166	682742	50.58 mg/L	99
54) Diethylphthalate	10.31	149	711685	53.99 mg/L	100
55) 4-Chlorophenyl phenyl ethe	10.40	204	369758	53.25 mg/L	98
56) 4-Nitroaniline	10.47	138	80675	34.99 mg/L	94
58) 2-Methyl-4,6-dinitrophenol	10.52	198	247987	97.62 mg/L	97
59) N-Nitrosodiphenylamine	10.55	169	388078	42.85 mg/L	99
60) Azobenzene	10.59	77	715482	53.77 mg/L	99
62) 4-Bromophenyl phenyl ether	11.01	248	218081	55.61 mg/L	97
63) Hexachlorobenzene	11.20	284	222968	54.92 mg/L	99
64) Pentachlorophenol	11.42	266	277155	99.42 mg/L	99
65) Phenanthrene	11.61	178	990580	49.65 mg/L	100
66) Anthracene	11.67	178	977595	50.90 mg/L	100
67) Carbazole	11.87	167	355791	27.83 mg/L	100
68) Di-n-butylphthalate	12.39	149	1166283	60.05 mg/L	100
69) Fluoranthene	13.34	202	983145	55.24 mg/L	99
71) Benzidine	13.53	184	119925	20.65 mg/L	100
72) Pyrene	13.71	202	998316	45.88 mg/L	99
74) Butylbenzylphthalate	14.92	149	453788	57.24 mg/L	99
75) 3,3'-Dichlorobenzidine	15.90	252	340147	80.09 mg/L	99
76) Benz(a)anthracene	15.93	228	795004	55.46 mg/L	98
77) Chrysene	16.02	228	706365	52.69 mg/L	100
78) Bis(2-ethylhexyl)phthalate	16.12	149	636931	65.85 mg/L	99
79) Mirex	16.79	272	100678	34.61 mg/L	100
81) Di-n-octylphthalate	17.36	149	921447	51.92 mg/L	100
82) Benzo(b)fluoranthene	18.09	252	562712m	49.75 mg/L	
83) Benzo(k)fluoranthene	18.14	252	564664	50.48 mg/L	99
84) Benzo(a)pyrene	18.72	252	464807	51.59 mg/L	99
85) Indeno(1,2,3-c,d)pyrene	21.42	276	442850	59.65 mg/L	94
86) Dibenz(a,h)anthracene	21.48	278	353337	55.85 mg/L	98
87) Benzo(g,h,i)perylene	22.18	276	360950	58.69 mg/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

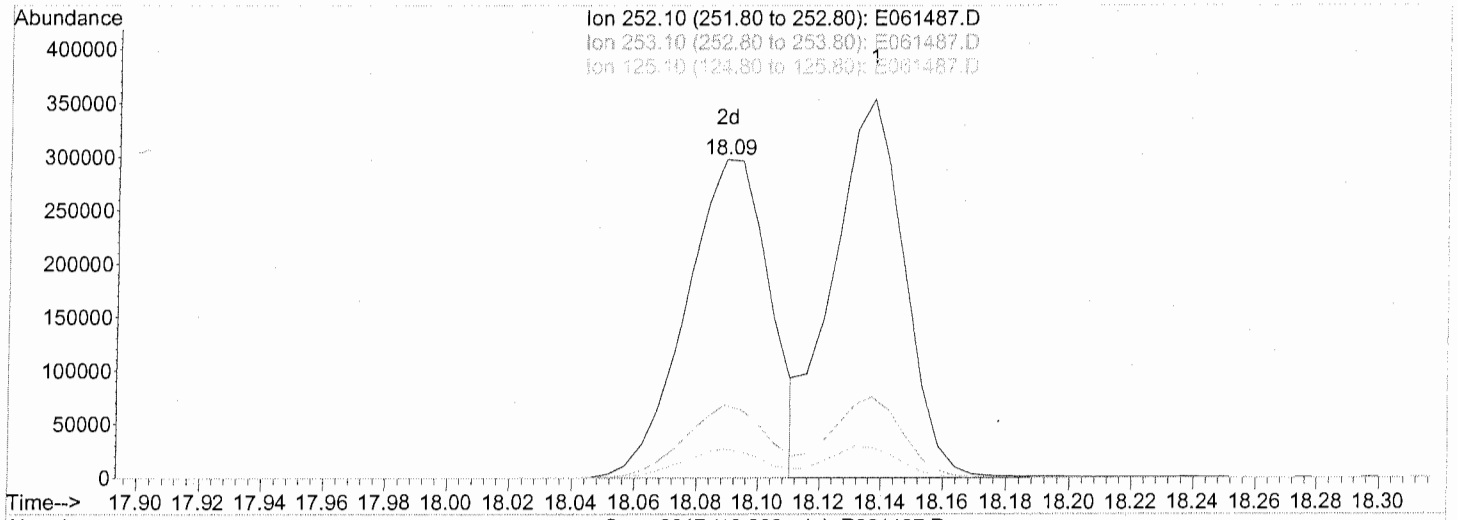
Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 9:39 2006 Quant Results File: BA061011.RES

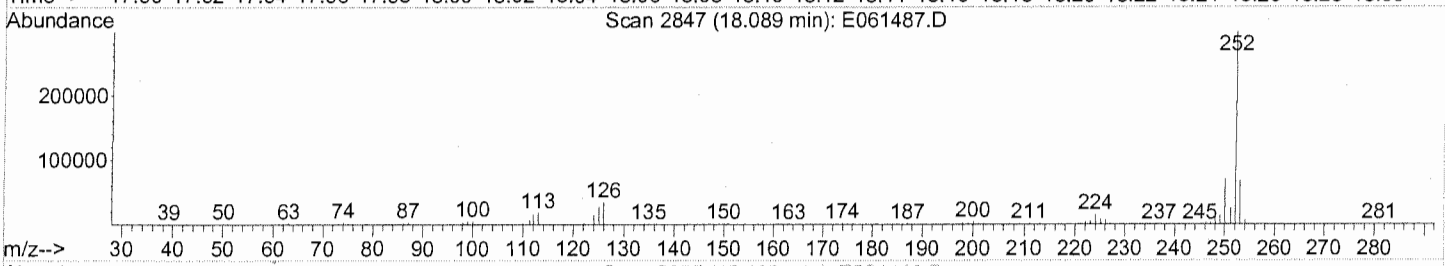
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

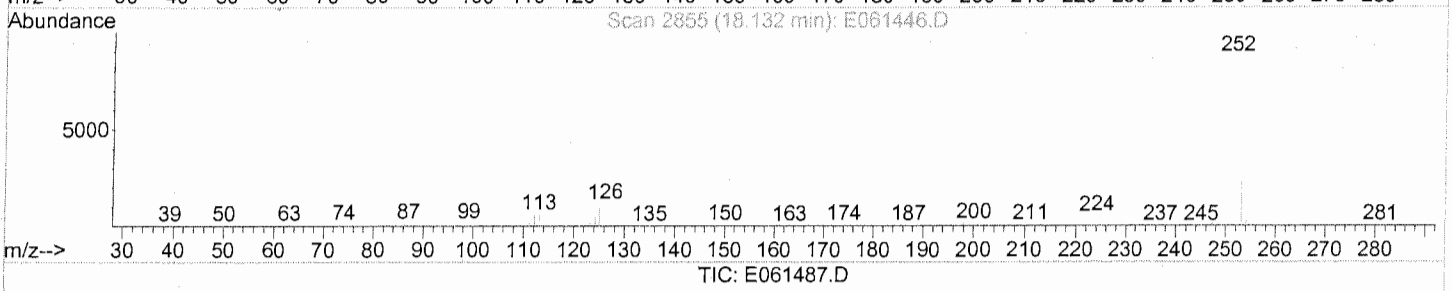


Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 9:39 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Multiple Level Calibration







TIC: E061487.D

(82) Benzo(b)fluoranthene (T)

18.09min 49.75mg/L m

response 562712

Ion	Exp%	Act%
252.10	100	100
253.10	21.80	21.84
125.10	8.90	8.65
0.00	0.00	0.00

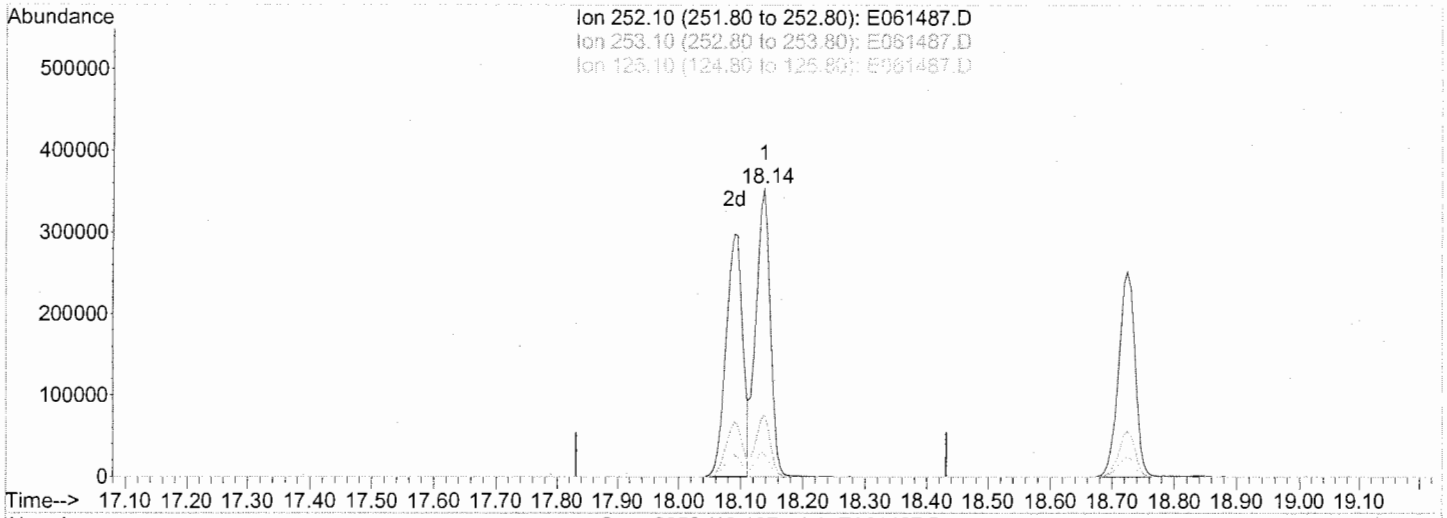
Wrong Pos Ex 10/26/06

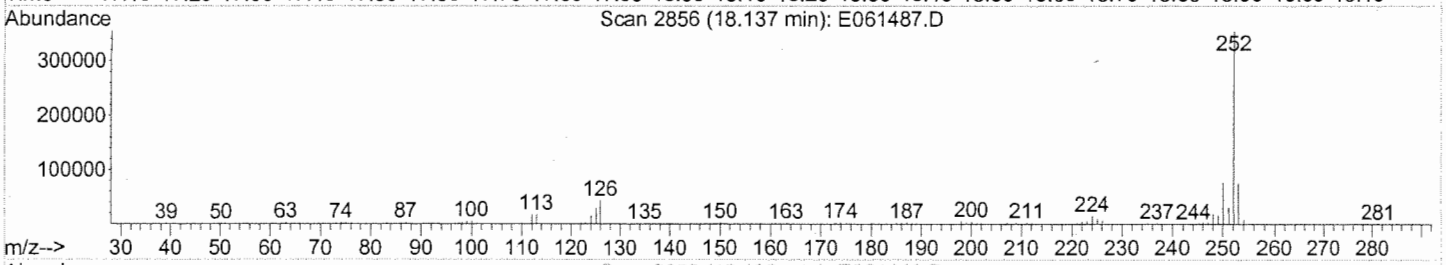
ok 10/26/06

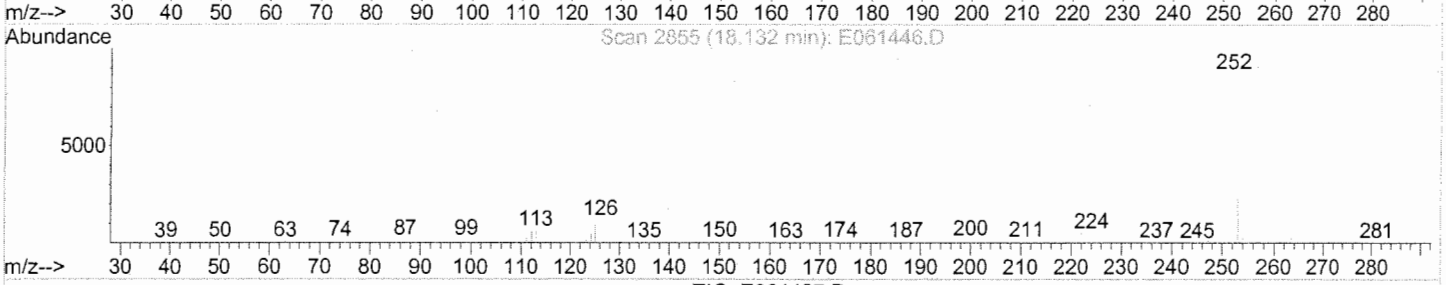
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 9:35 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Multiple Level Calibration







TIC: E061487.D

(82) Benzo(b)fluoranthene (T)

18.14min 49.92mg/L

response 564664

Ion	Exp%	Act%
252.10	100	100
253.10	21.80	21.76
125.10	8.90	8.62
0.00	0.00	0.00

E061487.D BA061011.M Wed Oct 25 09:39:07 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 09:35:43 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	184095	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	687786	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.75	164	435633	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	699783	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	512840	40.00	mg/L	-0.04
80) Perylene-d12	18.84	264	352770	40.00	mg/L	-0.05
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	233307	47.18	mg/L	0.00
Spiked Amount 50.000			Recovery = 94.36%			
7) Phenol-d5	5.55	99	326922	49.48	mg/L	0.00
Spiked Amount 50.000			Recovery = 98.96%			
23) Nitrobenzene-d5	6.67	82	310787	51.61	mg/L	0.00
Spiked Amount 50.000			Recovery = 103.22%			
41) 2-Fluorobiphenyl	8.89	172	652336	49.79	mg/L	-0.02
Spiked Amount 50.000			Recovery = 99.58%			
61) 2,4,6-Tribromophenol	10.74	330	90819	57.20	mg/L	-0.01
Spiked Amount 50.000			Recovery = 114.40%			
73) Terphenyl-d14	13.97	244	665583	48.94	mg/L	-0.03
Spiked Amount 50.000			Recovery = 97.88%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	169210	55.69	mg/L	99
3) N-Nitrosodimethylamine	3.35	42	184271	52.00	mg/L	97
4) Pyridine	3.37	79	413972	54.90	mg/L	97
5) PGMEA	4.54	43	451288	51.31	mg/L	99
8) Phenol	5.57	94	354040	49.91	mg/L	95
9) Aniline	5.63	93	335572	40.89	mg/L	96
10) Bis(2-chloroethyl)ether	5.68	93	288998	48.70	mg/L	97
11) 2-Chlorophenol	5.76	128	290565	49.70	mg/L	100
12) 1,3-Dichlorobenzene	5.94	146	348735	49.92	mg/L	98
13) 1,4-Dichlorobenzene	5.99	146	357420	49.32	mg/L	100
14) Benzyl alcohol	6.14	108	187180	52.39	mg/L	99
15) 1,2-Dichlorobenzene	6.22	146	328081	49.65	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.23	99	196461	52.79	mg/L	99
17) 2-Methylphenol	6.29	108	247834	48.36	mg/L	99
18) Bis(2-chloroisopropyl)ethe	6.33	45	410707	49.74	mg/L	98
19) 4-Methylphenol	6.45	107	322866	48.45	mg/L	98
20) N-Nitrosodi-n-propylamine	6.50	70	229210	53.98	mg/L	96
21) Hexachloroethane	6.60	117	141199	51.99	mg/L	96
24) Nitrobenzene	6.69	77	348811	52.45	mg/L	98
25) Isophorone	6.97	82	608994	54.95	mg/L	98
26) 2-Nitrophenol	7.08	139	163082	51.53	mg/L #	76
27) 2,4-Dimethylphenol	7.11	122	240210	49.34	mg/L	97
28) Benzoic acid	7.23	122	129204	38.94	mg/L	98
29) Bis(2-chloroethoxy)methane	7.23	93	328188	49.30	mg/L	92
30) 2,4-Dichlorophenol	7.37	162	241171	48.39	mg/L	99
31) 1,2,4-Trichlorobenzene	7.48	180	307007	51.43	mg/L	100
32) Naphthalene	7.57	128	836756	49.05	mg/L	100
33) 4-Chloroaniline	7.64	127	246078	41.25	mg/L	99
34) Hexachlorobutadiene	7.78	225	197511	53.57	mg/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 09:35:43 2006 Quant Results File: BA061011.RES

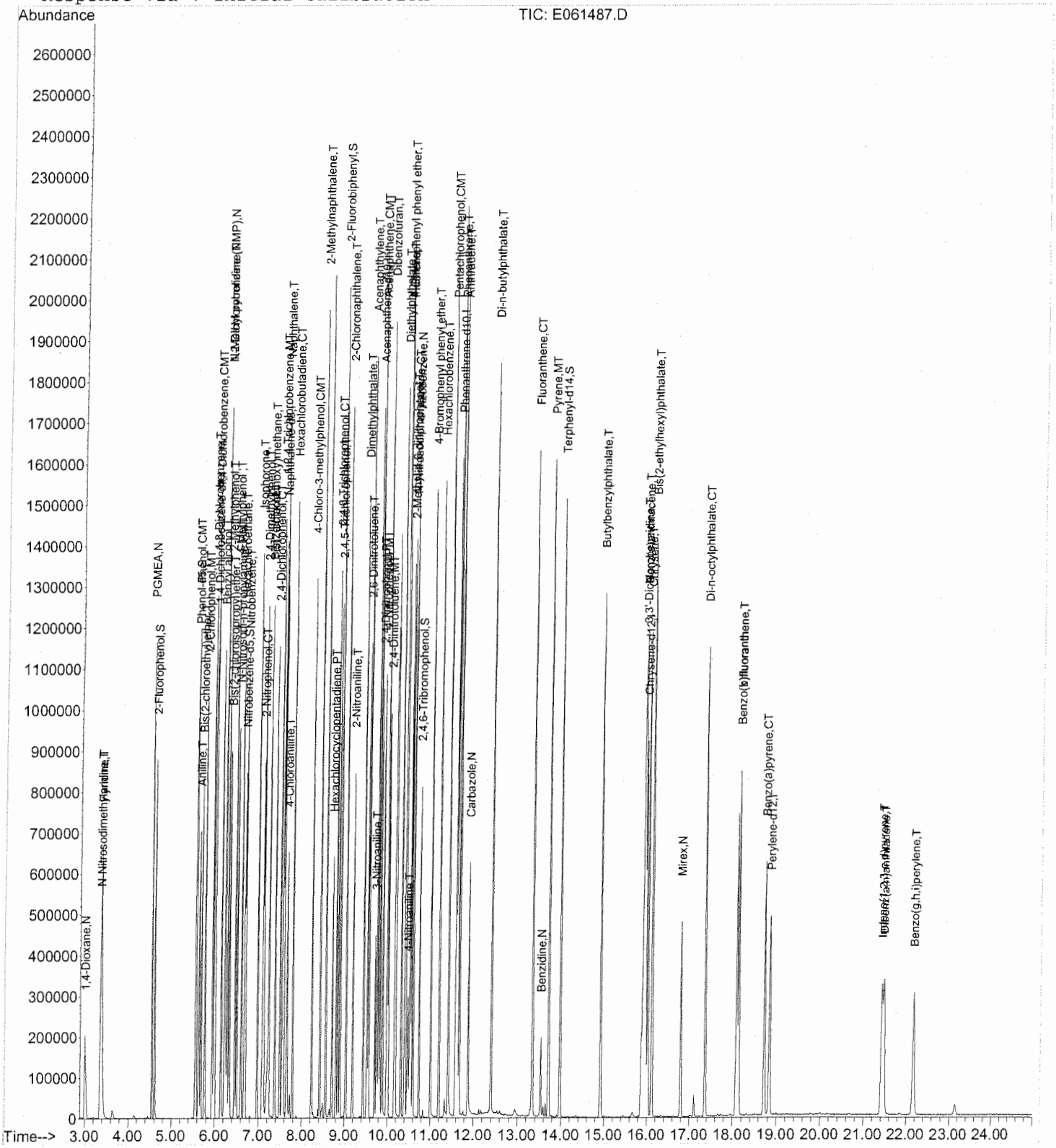
Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
35)	4-Chloro-3-methylphenol	8.23	107	259436	53.09	mg/L	98
36)	2-Methylnaphthalene	8.42	142	602354	49.81	mg/L	99
38)	Hexachlorocyclopentadiene	8.70	237	121075	32.29	mg/L	98
39)	2,4,6-Trichlorophenol	8.80	196	202087	51.87	mg/L	100
40)	2,4,5-Trichlorophenol	8.85	196	209064	49.54	mg/L	98
42)	2-Chloronaphthalene	9.03	162	569656	50.38	mg/L	99
43)	2-Nitroaniline	9.18	65	165499	48.93	mg/L	96
44)	Dimethylphthalate	9.44	163	686758	52.58	mg/L	98
45)	Acenaphthylene	9.56	152	886675	49.26	mg/L	100
46)	2,6-Dinitrotoluene	9.53	165	159115	53.49	mg/L	95
47)	3-Nitroaniline	9.70	138	75988	29.62	mg/L	99
48)	Acenaphthene	9.79	154	547175	49.60	mg/L	99
49)	2,4-Dinitrophenol	9.82	184	168672	75.47	mg/L	93
50)	4-Nitrophenol	9.88	109	171751	87.53	mg/L	95
51)	Dibenzofuran	9.98	168	825023	49.17	mg/L	99
52)	2,4-Dinitrotoluene	10.02	165	207886	53.34	mg/L	98
53)	Fluorene	10.42	166	682742	50.58	mg/L	99
54)	Diethylphthalate	10.31	149	711685	53.99	mg/L	100
55)	4-Chlorophenyl phenyl ethe	10.40	204	369758	53.25	mg/L	98
56)	4-Nitroaniline	10.47	138	80675	34.99	mg/L	94
58)	2-Methyl-4,6-dinitrophenol	10.52	198	247987	97.62	mg/L	97
59)	N-Nitrosodiphenylamine	10.55	169	388078	42.85	mg/L	99
60)	Azobenzene	10.59	77	715482	53.77	mg/L	99
62)	4-Bromophenyl phenyl ether	11.01	248	218081	55.61	mg/L	97
63)	Hexachlorobenzene	11.20	284	222968	54.92	mg/L	99
64)	Pentachlorophenol	11.42	266	277155	99.42	mg/L	99
65)	Phenanthrene	11.61	178	990580	49.65	mg/L	100
66)	Anthracene	11.67	178	977595	50.90	mg/L	100
67)	Carbazole	11.87	167	355791	27.83	mg/L	100
68)	Di-n-butylphthalate	12.39	149	1166283	60.05	mg/L	100
69)	Fluoranthene	13.34	202	983145	55.24	mg/L	99
71)	Benzidine	13.53	184	119925	20.65	mg/L	100
72)	Pyrene	13.71	202	998316	45.88	mg/L	99
74)	Butylbenzylphthalate	14.92	149	453788	57.24	mg/L	99
75)	3,3'-Dichlorobenzidine	15.90	252	340147	80.09	mg/L	99
76)	Benz(a)anthracene	15.93	228	795004	55.46	mg/L	98
77)	Chrysene	16.02	228	706365	52.69	mg/L	100
78)	Bis(2-ethylhexyl)phthalate	16.12	149	636931	65.85	mg/L	99
79)	Mirex	16.79	272	100678	34.61	mg/L	100
81)	Di-n-octylphthalate	17.36	149	921447	51.92	mg/L	100
82)	Benzo(b)fluoranthene	18.14	252	564664	49.92	mg/L	100
83)	Benzo(k)fluoranthene	18.14	252	564664	50.48	mg/L	99
84)	Benzo(a)pyrene	18.72	252	464807	51.59	mg/L	99
85)	Indeno(1,2,3-c,d)pyrene	21.42	276	442850	59.65	mg/L	94
86)	Dibenz(a,h)anthracene	21.48	278	353337	55.85	mg/L	98
87)	Benzo(g,h,i)perylene	22.18	276	360950	58.69	mg/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061025\E061487.D Vial: 2
Acq On : 25 Oct 2006 9:09 am Operator: SC
Sample : SSTD050 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 9:35 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061506.D Vial: 21
Acq On : 25 Oct 2006 7:21 pm Operator: SC
Sample : 4PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 10:42:04 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.97	152	250204	40.00	mg/L	-0.02
22) Naphthalene-d8	7.54	136	954273	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	596301	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	928771	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	513045	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	320467	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	25892	3.85	mg/L	0.00
Spiked Amount 50.000			Recovery =	7.70%		
7) Phenol-d5	5.55	99	36777	4.10	mg/L	-0.01
Spiked Amount 50.000			Recovery =	8.20%		
23) Nitrobenzene-d5	6.67	82	33795	4.04	mg/L	-0.01
Spiked Amount 50.000			Recovery =	8.08%		
41) 2-Fluorobiphenyl	8.89	172	69480	3.87	mg/L	-0.02
Spiked Amount 50.000			Recovery =	7.74%		
61) 2,4,6-Tribromophenol	10.73	330	8483	4.03	mg/L	-0.02
Spiked Amount 50.000			Recovery =	8.06%		
73) Terphenyl-d14	13.96	244	57230	4.21	mg/L	-0.04
Spiked Amount 50.000			Recovery =	8.42%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	18334	4.44	mg/L	96
3) N-Nitrosodimethylamine	3.36	42	18996	3.94	mg/L	94
4) Pyridine	3.38	79	43141	4.21	mg/L	96
5) PGMEA	4.54	43	46619	3.90	mg/L	98
8) Phenol	5.56	94	39100	4.06	mg/L	97
9) Aniline	5.63	93	47420	4.25	mg/L	98
10) Bis(2-chloroethyl)ether	5.67	93	31476	3.90	mg/L	99
11) 2-Chlorophenol	5.76	128	31044	3.91	mg/L	99
12) 1,3-Dichlorobenzene	5.94	146	38576	4.06	mg/L	99
13) 1,4-Dichlorobenzene	5.99	146	38416	3.90	mg/L	91
14) Benzyl alcohol	6.14	108	19676	4.05	mg/L	98
15) 1,2-Dichlorobenzene	6.22	146	36159	4.03	mg/L	98
16) N-Methyl pyrrolidine (NMP)	6.19	99	20421	4.04	mg/L	94
17) 2-Methylphenol	6.27	108	28463	4.09	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.33	45	43416	3.87	mg/L	97
19) 4-Methylphenol	6.44	107	35246	3.89	mg/L	98
20) N-Nitrosodi-n-propylamine	6.49	70	24431	4.23	mg/L	92
21) Hexachloroethane	6.60	117	14735	3.99	mg/L	96
24) Nitrobenzene	6.69	77	37504	4.06	mg/L	96
25) Isophorone	6.97	82	62302	4.05	mg/L	100
26) 2-Nitrophenol	7.08	139	17983	4.10	mg/L #	86
27) 2,4-Dimethylphenol	7.11	122	24853	3.68	mg/L	95
28) Benzoic acid	7.17	122	11573	2.51	mg/L	98
29) Bis(2-chloroethoxy)methane	7.23	93	35682	3.86	mg/L	97
30) 2,4-Dichlorophenol	7.37	162	26028	3.76	mg/L	98
31) 1,2,4-Trichlorobenzene	7.48	180	32911	3.97	mg/L	97
32) Naphthalene	7.56	128	92941	3.93	mg/L	100
33) 4-Chloroaniline	7.64	127	33778	4.08	mg/L	98
34) Hexachlorobutadiene	7.78	225	20411	3.99	mg/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\E061025\E061506.D Vial: 21
Acq On : 25 Oct 2006 7:21 pm Operator: SC
Sample : 4PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 10:42:04 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

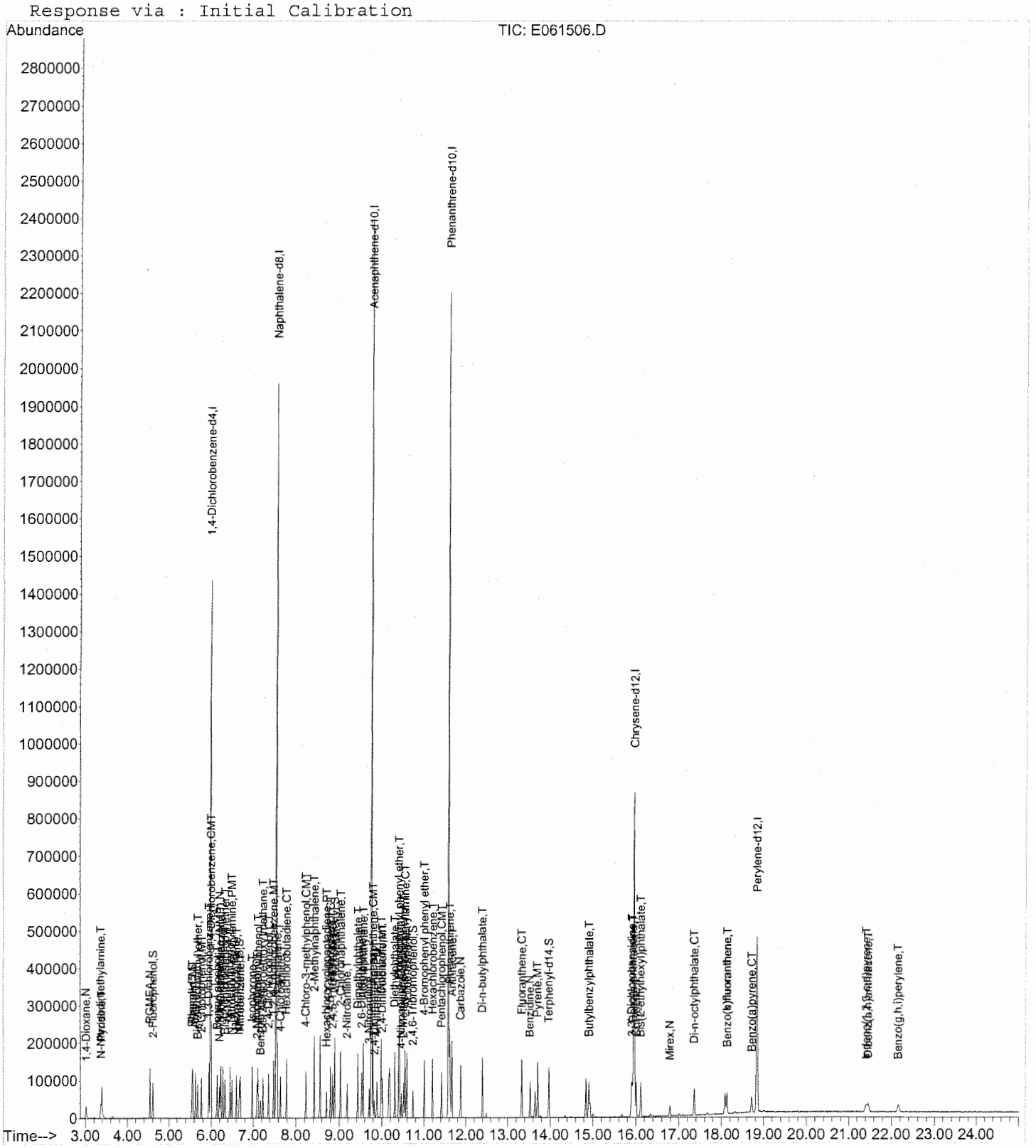
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.22	107	26067	3.84	mg/L		99
36)	2-Methylnaphthalene	8.42	142	64229	3.83	mg/L		99
38)	Hexachlorocyclopentadiene	8.70	237	13056	2.54	mg/L		100
39)	2,4,6-Trichlorophenol	8.79	196	20419	3.83	mg/L		97
40)	2,4,5-Trichlorophenol	8.85	196	21499	3.72	mg/L		98
42)	2-Chloronaphthalene	9.03	162	60407	3.90	mg/L		98
43)	2-Nitroaniline	9.18	65	17099	3.69	mg/L		98
44)	Dimethylphthalate	9.43	163	72286	4.04	mg/L		99
45)	Acenaphthylene	9.56	152	95938	3.89	mg/L		99
46)	2,6-Dinitrotoluene	9.52	165	15441	3.79	mg/L		97
47)	3-Nitroaniline	9.70	138	14218	4.05	mg/L		94
48)	Acenaphthene	9.79	154	59269	3.92	mg/L		97
49)	2,4-Dinitrophenol	9.82	184	8371	9.32	mg/L		94
50)	4-Nitrophenol	9.88	109	14246	5.30	mg/L		92
51)	Dibenzofuran	9.98	168	88140	3.84	mg/L		100
52)	2,4-Dinitrotoluene	10.01	165	20176	3.78	mg/L		95
53)	Fluorene	10.41	166	71762	3.88	mg/L		100
54)	Diethylphthalate	10.30	149	70519	3.91	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.40	204	37807	3.98	mg/L		96
56)	4-Nitroaniline	10.46	138	12002	3.80	mg/L		97
58)	2-Methyl-4,6-dinitrophenol	10.51	198	15417	4.57	mg/L		97
59)	N-Nitrosodiphenylamine	10.55	169	51366	4.27	mg/L		99
60)	Azobenzene	10.59	77	73023	4.13	mg/L		97
62)	4-Bromophenyl phenyl ether	11.00	248	21532	4.14	mg/L		97
63)	Hexachlorobenzene	11.20	284	22166	4.11	mg/L		98
64)	Pentachlorophenol	11.41	266	16451	4.45	mg/L		97
65)	Phenanthrene	11.61	178	104874	3.96	mg/L		99
66)	Anthracene	11.67	178	101677	3.99	mg/L		99
67)	Carbazole	11.87	167	73382	8.16	mg/L		100
68)	Di-n-butylphthalate	12.39	149	100256	3.89	mg/L		100
69)	Fluoranthene	13.33	202	93550	3.96	mg/L		98
71)	Benzidine	13.53	184	57239	9.85	mg/L		100
72)	Pyrene	13.70	202	93241	4.28	mg/L		99
74)	Butylbenzylphthalate	14.91	149	33490	4.22	mg/L		98
75)	3,3'-Dichlorobenzidine	15.90	252	32119	14.08	mg/L		97
76)	Benz(a)anthracene	15.93	228	59314	4.14	mg/L		99
77)	Chrysene	16.01	228	55400	4.13	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.11	149	41355	4.27	mg/L		98
79)	Mirex	16.79	272	6544	2.25	mg/L		98
81)	Di-n-octylphthalate	17.36	149	57294	3.55	mg/L		99
82)	Benzo(b)fluoranthene	18.13	252	36653	3.57	mg/L		98
83)	Benzo(k)fluoranthene	18.13	252	36653	3.61	mg/L		98
84)	Benzo(a)pyrene	18.71	252	31960	3.90	mg/L		97
85)	Indeno(1,2,3-c,d)pyrene	21.41	276	29232	4.33	mg/L	#	74
86)	Dibenz(a,h)anthracene	21.45	278	23381	4.07	mg/L		98
87)	Benzo(g,h,i)perylene	22.15	276	23969	4.29	mg/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061506.D Vial: 21
Acq On : 25 Oct 2006 7:21 pm Operator: SC
Sample : 4PPM 8270 CCV Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 10:42 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



QC Sample Data

Batch# DWG0600914

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	GROUND WATE
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75183	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 10:45	**Quant Date:**	10/25/2006 12:15	**Vial:**	5
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0600914-3			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.97	-0.01?	152	182308	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	688691	40.00	OK
3	Acenaphthene-d10	9.74	-0.01?	164	425451	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	676798	40.00	OK
5	Chrysene-d12	15.95	-0.01?	240	416001	40.00	OK
6	Perylene-d12	18.83	-0.01?	264	314581	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.61	0.00	0.00	112	126665	25.87	52	23-115	OK	
1	Phenol-d5	5.55	0.00	0.00	99	129142	19.74	39	23-121	OK	
2	Nitrobenzene-d5	6.67	0.00	0.00	82	266836	44.25	89	42-122	OK	
3	2-Fluorobiphenyl	8.89	0.00	0.00	172	572423	44.74	89	47-110	OK	
4	2,4,6-Tribromophenol	10.73	-0.01	0.00	330	62618	40.78	82	31-112	OK	
5	Terphenyl-d14	13.96	-0.01	0.00	244	485870	44.04	88	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0		0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	PGMEA				43	0d		0.35	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-clution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 10:45	**Quant Date:**	10/25/2006 12:15	**Vial:**	5
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0600914-3			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol				108	0d		0.22	U	
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	1-Methyl-2-pyrrolidinone				99	0d		0.19	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0		0.83	U	
2	Benzoic acid				122	0		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.30	-0.01	0.00	149	2891	0.2200	0.28	U	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	Azobenzene				77	0		0.25	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 10:45	**Quant Date:**	10/25/2006 12:15	**Vial:**	5
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0600914-3			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	
4	Anthracene				178	0		0.21	U	
4	Carbazole				167	0		0.28	U	
4	Di-n-butyl Phthalate				149	0		0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Benzidine				184	0		25	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0		0.48	U	
5	3,3'-Dichlorobenzidine				252	0d		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate				149	0		0.30	U	
5	Mirex				272	0		0.21	U	
6	Di-n-octyl Phthalate				149	0		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0		0.62	U	
6	Benzo(g,h,i)perylene				276	0		0.74	U	

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061490.D Vial: 5
Acq On : 25 Oct 2006 10:45 am Operator: SC
Sample : MB 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:14:36 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

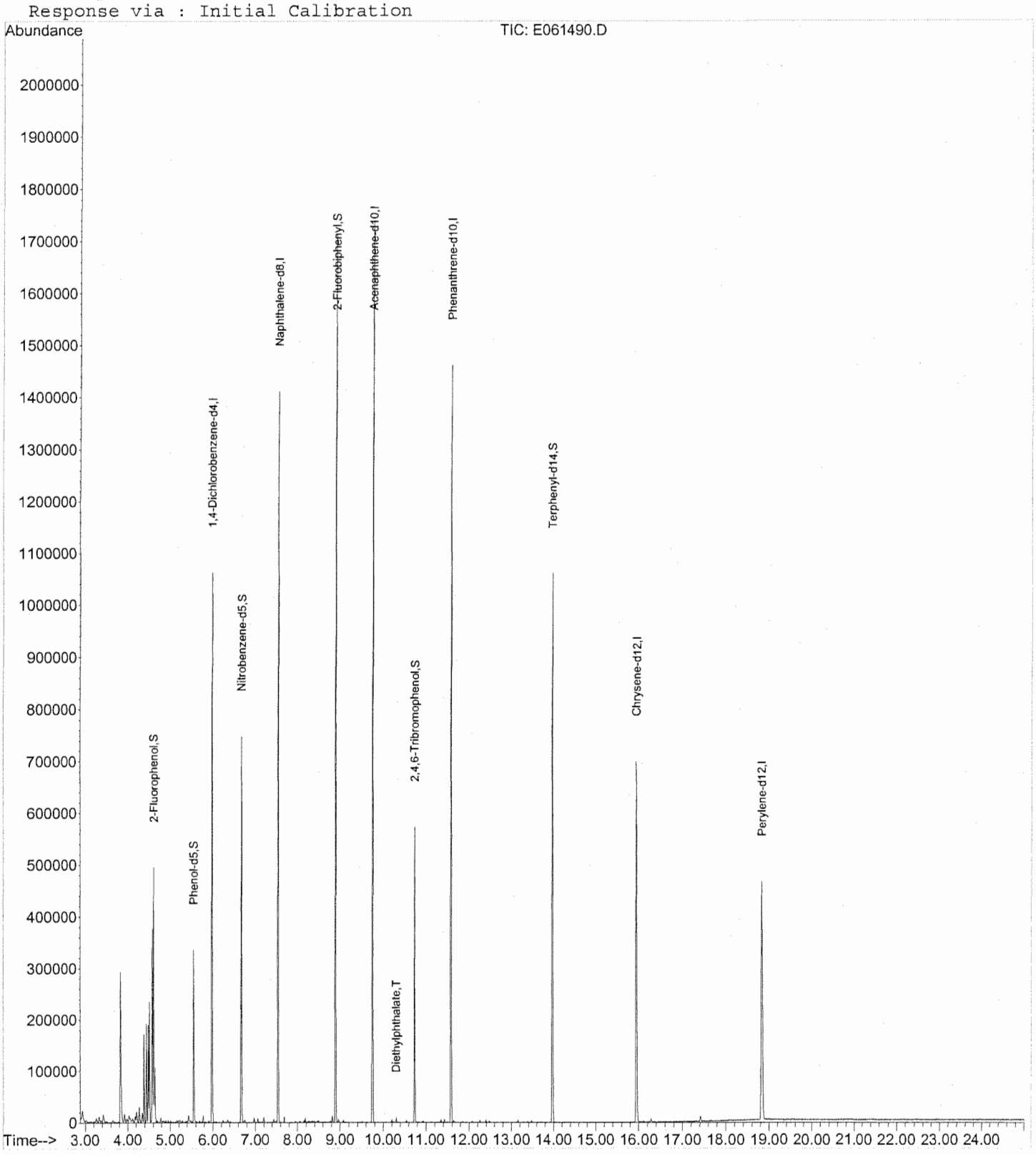
10/26/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.97	152	182308	40.00	mg/L	-0.02
22) Naphthalene-d8	7.54	136	688691	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.74	164	425451	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	676798	40.00	mg/L	-0.03
70) Chrysene-d12	15.95	240	416001	40.00	mg/L	-0.06
80) Perylene-d12	18.83	264	314581	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	126665	25.87	mg/L	0.00
Spiked Amount 50.000			Recovery = 51.74%			
7) Phenol-d5	5.55	99	129142	19.74	mg/L	-0.01
Spiked Amount 50.000			Recovery = 39.48%			
23) Nitrobenzene-d5	6.67	82	266836	44.25	mg/L	-0.01
Spiked Amount 50.000			Recovery = 88.50%			
41) 2-Fluorobiphenyl	8.89	172	572423	44.74	mg/L	-0.02
Spiked Amount 50.000			Recovery = 89.48%			
61) 2,4,6-Tribromophenol	10.73	330	62618	40.78	mg/L	-0.02
Spiked Amount 50.000			Recovery = 81.56%			
73) Terphenyl-d14	13.96	244	485870	44.04	mg/L	-0.04
Spiked Amount 50.000			Recovery = 88.08%			
Target Compounds						Qvalue
54) Diethylphthalate	10.30	149	2891	0.22	mg/L	# 97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061490.D BA061011.M Wed Oct 25 12:15:38 2006

Data File : C:\MSDCHEM\1\DATA\E061025\E061490.D Vial: 5
Acq On : 25 Oct 2006 10:45 am Operator: SC
Sample : MB 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061490.D Vial: 5
Acq On : 25 Oct 2006 10:45 am Operator: SC
Sample : MB 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:14:36 2006 Quant Results File: BA061011.RES

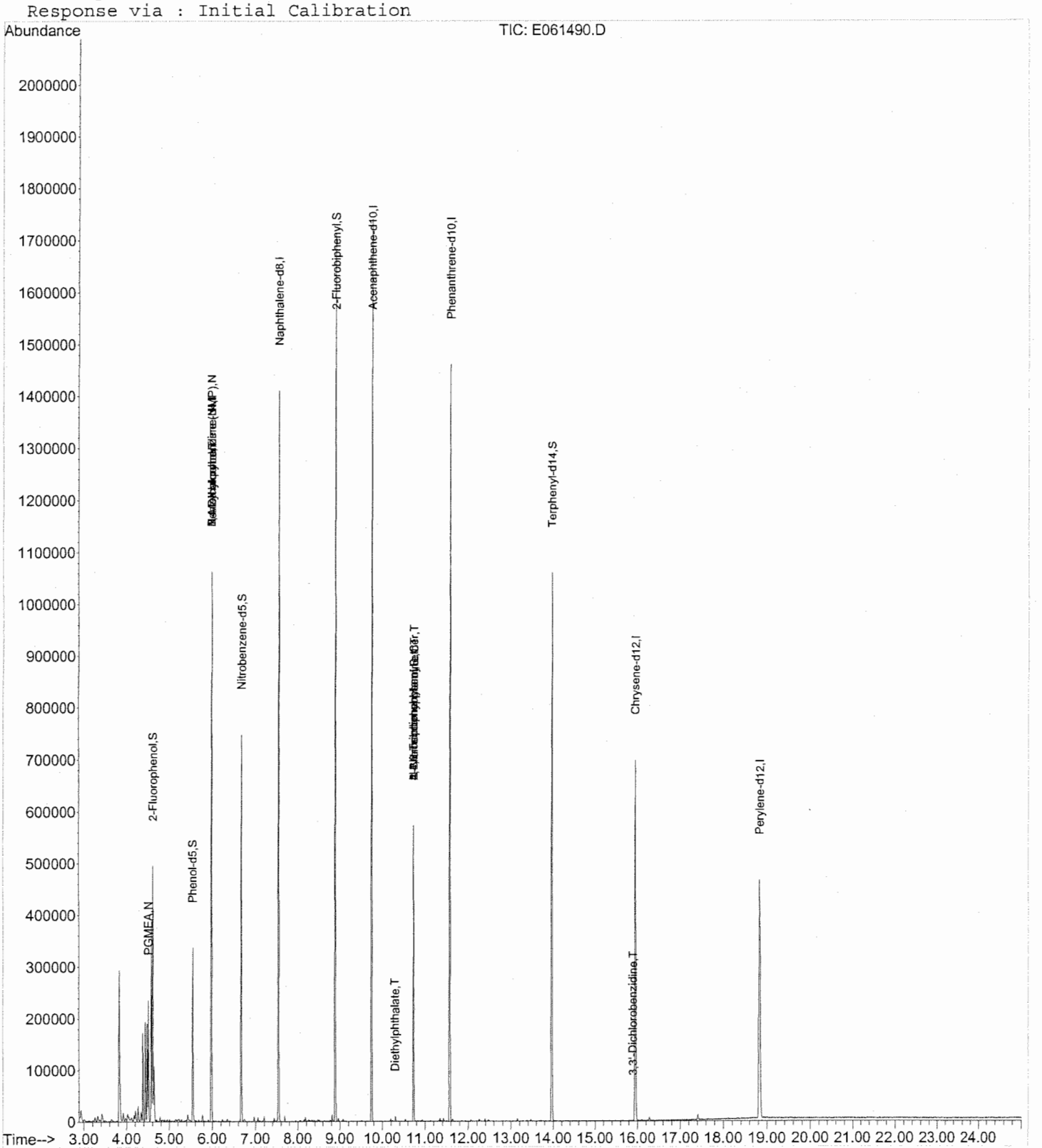
Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

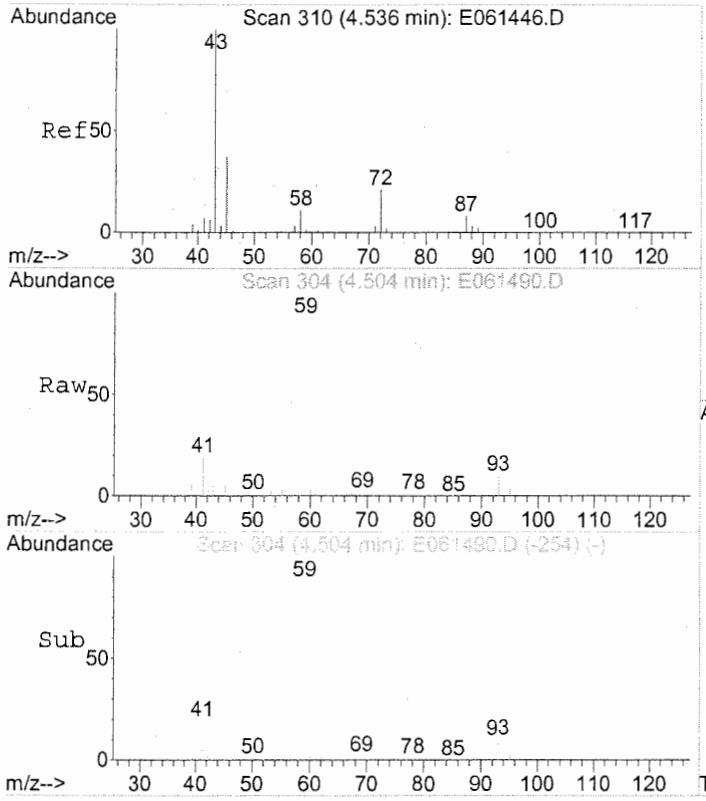
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.97	152	182308	40.00	mg/L	-0.02
22) Naphthalene-d8	7.54	136	688691	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.74	164	425451	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	676798	40.00	mg/L	-0.03
70) Chrysene-d12	15.95	240	416001	40.00	mg/L	-0.06
80) Perylene-d12	18.83	264	314581	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	126665	25.87	mg/L	0.00
Spiked Amount 50.000			Recovery = 51.74%			
7) Phenol-d5	5.55	99	129142	19.74	mg/L	-0.01
Spiked Amount 50.000			Recovery = 39.48%			
23) Nitrobenzene-d5	6.67	82	266836	44.25	mg/L	-0.01
Spiked Amount 50.000			Recovery = 88.50%			
41) 2-Fluorobiphenyl	8.89	172	572423	44.74	mg/L	-0.02
Spiked Amount 50.000			Recovery = 89.48%			
61) 2,4,6-Tribromophenol	10.73	330	62618	40.78	mg/L	-0.02
Spiked Amount 50.000			Recovery = 81.56%			
73) Terphenyl-d14	13.96	244	485870	44.04	mg/L	-0.04
Spiked Amount 50.000			Recovery = 88.08%			
Target Compounds						Qvalue
5) PGMEA	4.50	43	5799	0.67	mg/L #	17
14) Benzyl alcohol	5.97	108	931	0.26	mg/L #	1
16) N-Methyl pyrrolidine (NMP)	5.97	99	3341	0.91	mg/L #	35
54) Diethylphthalate	10.30	149	2891	0.22	mg/L #	97
59) N-Nitrosodiphenylamine	10.73	169	2704	0.31	mg/L #	51
62) 4-Bromophenyl phenyl ether	10.73	248	4110	1.08	mg/L #	1
75) 3,3'-Dichlorobenzidine	15.89	252	728	7.39	mg/L #	42

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061490.D BA061011.M Wed Oct 25 12:14:38 2006 Page 1

Data File : C:\MSDCHEM\1\DATA\E061025\E061490.D Vial: 5
Acq On : 25 Oct 2006 10:45 am Operator: SC
Sample : MB 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:14 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

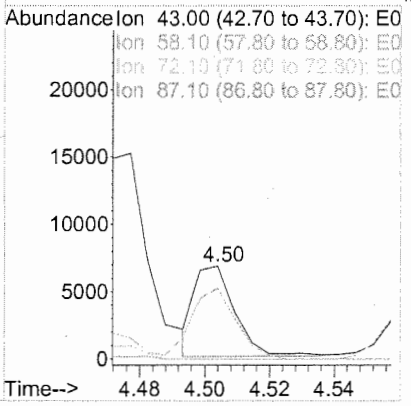


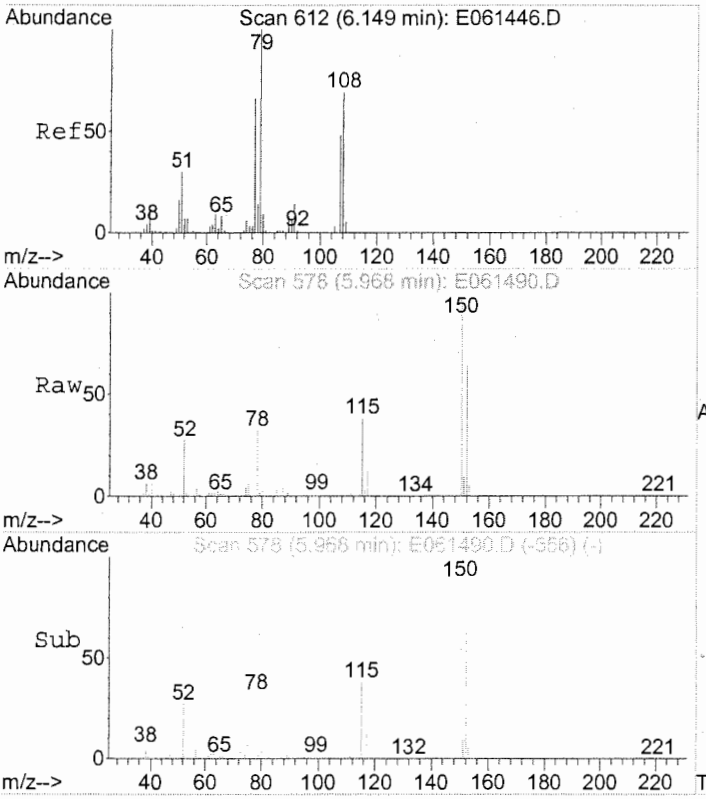


#5
PGMEA
Concen: 0.67 mg/L
RT: 4.50 min Scan# 304
Delta R.T. -0.03 min
Lab File: E061490.D
Acq: 25 Oct 2006 10:45 am

Tgt Ion: 43 Resp: 5799

Ion	Ratio	Lower	Upper
43	100		
58	85.9	9.4	14.2#
72	0.0	16.8	25.2#
87	0.0	6.6	10.0#

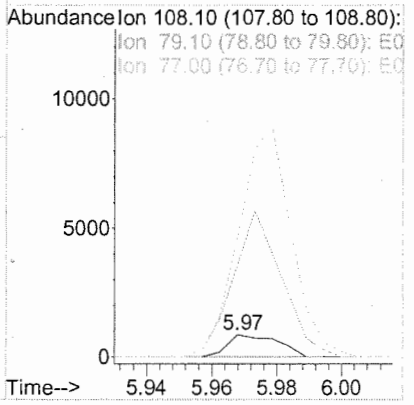


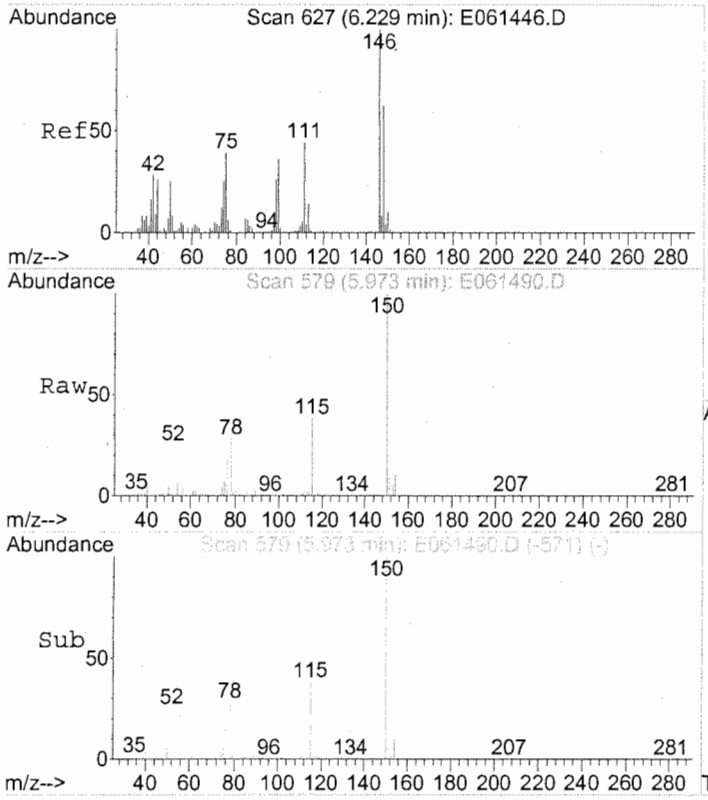


#14
Benzyl alcohol
Concen: 0.26 mg/L
RT: 5.97 min Scan# 578
Delta R.T. -0.18 min
Lab File: E061490.D
Acq: 25 Oct 2006 10:45 am

Tgt Ion:108 Resp: 931

Ion	Ratio	Lower	Upper
108	100		
79	635.8	116.8	175.2#
77	1080.9	76.2	114.4#

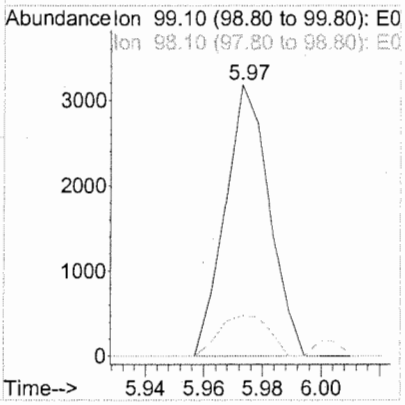


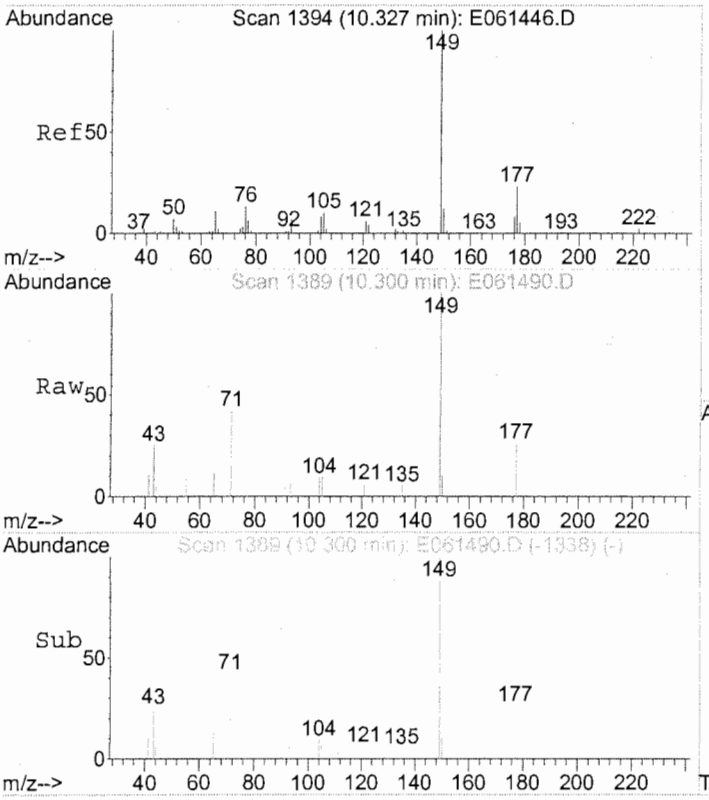


#16
N-Methyl pyrrolidine (NMP)
Concen: 0.91 mg/L
RT: 5.97 min Scan# 579
Delta R.T. -0.26 min
Lab File: E061490.D
Acq: 25 Oct 2006 10:45 am

Tgt Ion: 99 Resp: 3341

Ion	Ratio	Lower	Upper
99	100		
98	17.0	55.9	83.9#

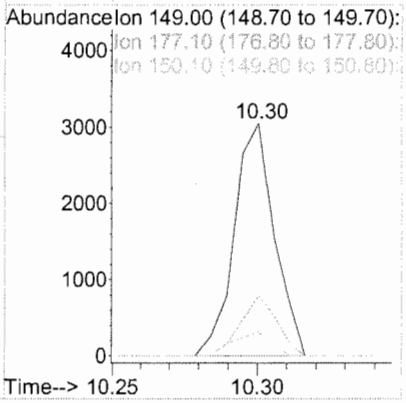


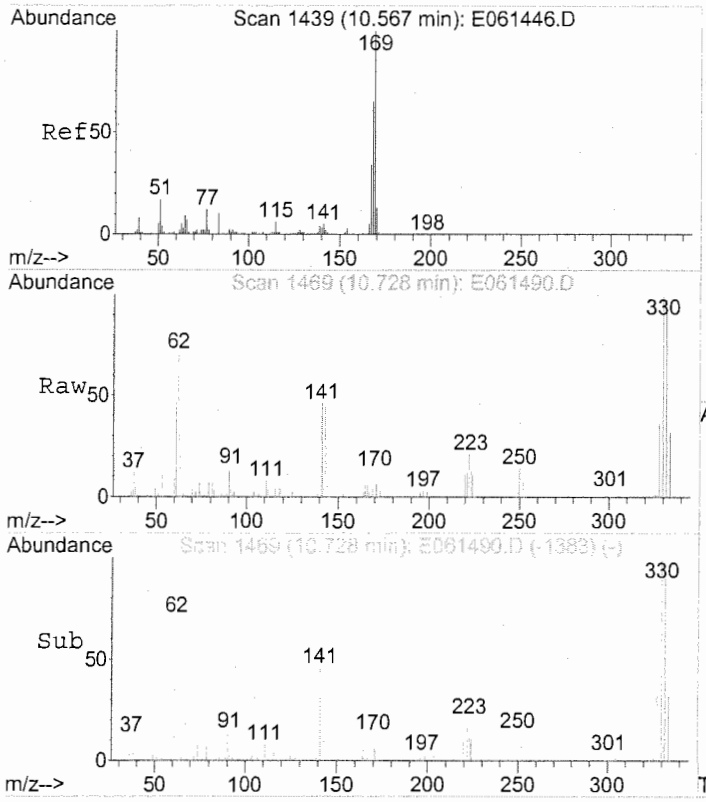


#54
Diethylphthalate
Concen: 0.22 mg/L
RT: 10.30 min Scan# 1389
Delta R.T. -0.03 min
Lab File: E061490.D
Acq: 25 Oct 2006 10:45 am

Tgt Ion:149 Resp: 2891

Ion	Ratio	Lower	Upper
149	100		
177	23.4	19.0	28.4
150	9.9	9.9	14.9#

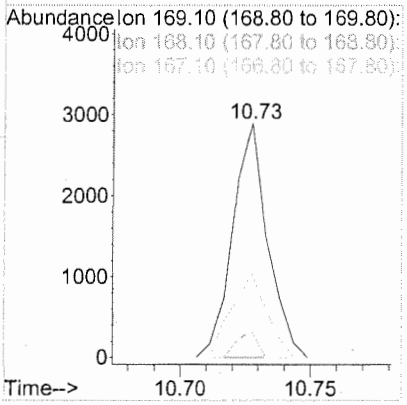


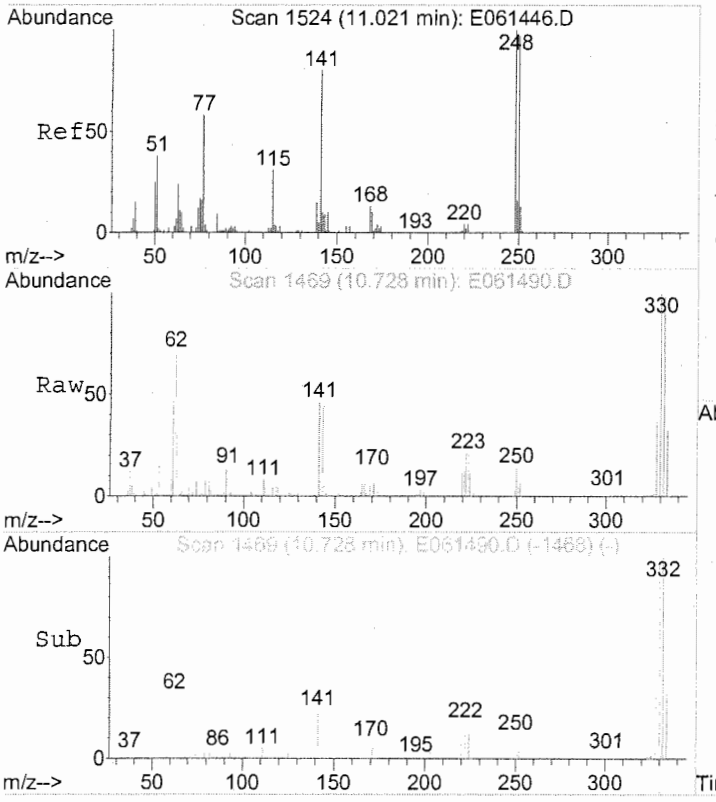


#59
N-Nitrosodiphenylamine
Concen: 0.31 mg/L
RT: 10.73 min Scan# 1469
Delta R.T. 0.16 min
Lab File: E061490.D
Acq: 25 Oct 2006 10:45 am

Tgt Ion:169 Resp: 2704

Ion	Ratio	Lower	Upper
169	100		
168	6.6	51.3	76.9#
167	36.2	27.7	41.5

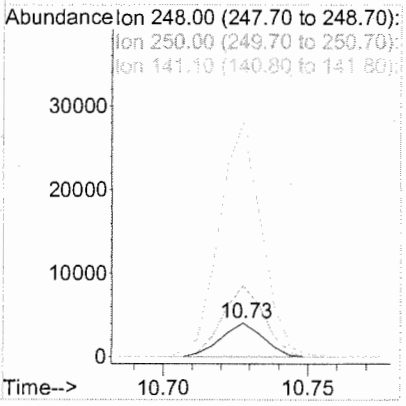


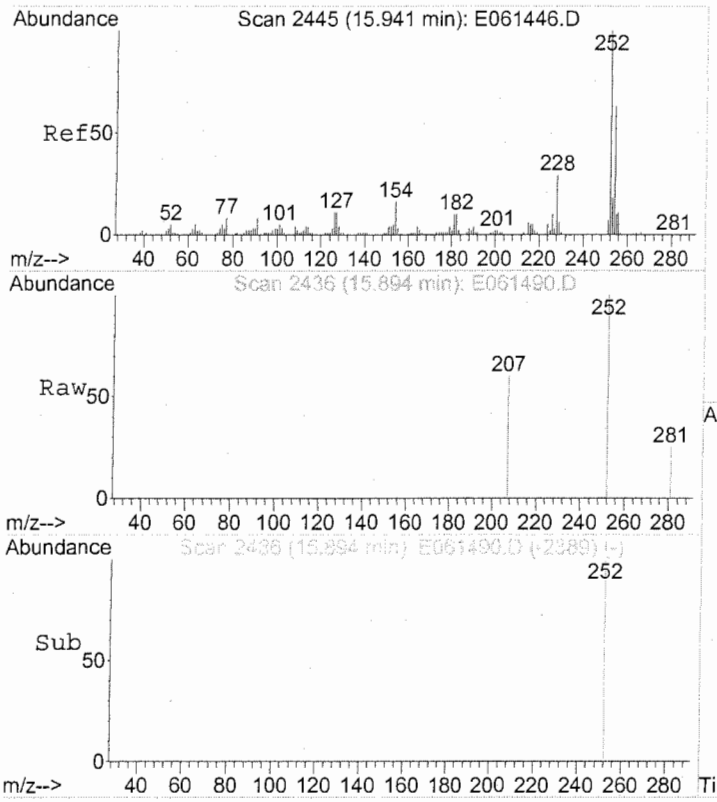


#62
4-Bromophenyl phenyl ether
Concen: 1.08 mg/L
RT: 10.73 min Scan# 1469
Delta R.T. -0.29 min
Lab File: E061490.D
Acq: 25 Oct 2006 10:45 am

Tgt Ion:248 Resp: 4110

Ion	Ratio	Lower	Upper
248	100		
250	209.4	77.0	115.6#
141	692.8	55.9	83.9#

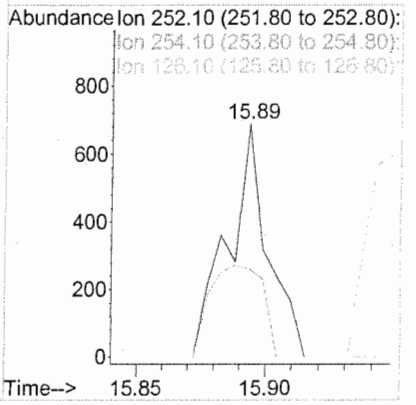




#75
3,3'-Dichlorobenzidine
Concen: 7.39 mg/L
RT: 15.89 min Scan# 2436
Delta R.T. -0.05 min
Lab File: E061490.D
Acq: 25 Oct 2006 10:45 am

Tgt Ion:252 Resp: 728

Ion	Ratio	Lower	Upper
252	100		
254	52.7	51.0	76.4
126	135.4	8.0	12.0#



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	GROUND WATE
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75181	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061491.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 11:18	**Quant Date:**	10/25/2006 12:40	**Vial:**	6
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0600914-1			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	0.00?	152	198812	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	757229	40.00	OK
3	Acenaphthene-d10	9.75	0.00?	164	477455	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	825446	40.00	OK
5	Chrysene-d12	15.96	0.00?	240	511280	40.00	OK
6	Perylene-d12	18.84	0.00?	264	298949	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	2-Fluorophenol	4.60	-0.01	0.00	112	134526	25.19	50	23-115 OK	
1	Phenol-d5	5.55	0.00	0.00	99	163740	22.95	46	23-121 OK	
2	Nitrobenzene-d5	6.67	0.00	0.00	82	292698	44.14	88	42-122 OK	
3	2-Fluorobiphenyl	8.90	0.01	0.00	172	633210	44.10	88	47-110 OK	
4	2,4,6-Tribromophenol	10.73	-0.01	0.00	330	83249	44.45	89	31-112 OK	
5	Terphenyl-d14	13.97	0.00	0.00	244	569998	42.04	84	37-130 OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.01	0.01	0.00	88	128880	39.28	39.3		
1	N-Nitrosodimethylamine	3.36	0.01	0.00	42	148608	38.83	38.8		
1	Pyridine	3.37		0.00	79	292865	35.96	36.0		
1	PGMEA	4.54		0.00	43	379149	39.92	39.9		
1	Phenol	5.56	-0.01	0.00	94	179935	23.49	23.5		
1	Aniline	5.63		0.00	93	365404	41.23	41.2		
1	Bis(2-chloroethyl) Ether	5.68		0.00	93	253585	39.57	39.6		
1	2-Chlorophenol	5.76		0.00	128	248125	39.30	39.3		
1	1,3-Dichlorobenzene	5.94		0.00	146	296335	39.28	39.3		
1	1,4-Dichlorobenzene	5.99		0.00	146	300238	38.36	38.4		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above bigh point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061491.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 11:18	**Quant Date:**	10/25/2006 12:40	**Vial:**	6
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0600914-1			**Soln Conc. Units:**	mg/L

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.14		0.00	108	173632	45.00	45.0		
1	1,2-Dichlorobenzene	6.22		0.00	146	283064	39.67	39.7		
1	1-Methyl-2-pyrrolidinone	6.22	-0.01	0.00	99	180504	44.91	44.9		
1	2-Methylphenol	6.28	-0.01	0.00	108	237598	42.93	42.9		
1	Bis(2-Chloroisopropyl)ether	6.33		0.00	45	356083	39.93	39.9		
1	4-Methylphenol	6.45		0.00	107	295961	41.13	41.1		
1	N-Nitrosodi-n-propylamine	6.50		0.00	70	208254	45.42	45.4		
1	Hexachloroethane	6.60		0.00	117	115094	39.24	39.2		
2	Nitrobenzene	6.69		0.00	77	308367	42.12	42.1		
2	Isophorone	6.97		0.00	82	550588	45.13	45.1		
2	2-Nitrophenol	7.08		0.00	139	147778	42.41	42.4		
2	2,4-Dimethylphenol	7.11		0.00	122	234949	43.83	43.8		
2	Benzoic acid	7.18	-0.05	-0.01	122	21468	5.88	5.88	J	
2	bis(2-Chloroethoxy)methane	7.23		0.00	93	299829	40.91	40.9		
2	2,4-Dichlorophenol	7.37		0.00	162	226666	41.31	41.3		
2	1,2,4-Trichlorobenzene	7.48		0.00	180	268652	40.88	40.9		
2	Naphthalene	7.57		0.00	128	757937	40.35	40.4		
2	4-Chloroaniline	7.64		0.00	127	287624	43.80	43.8		
2	Hexachlorobutadiene	7.78		0.00	225	169448	41.75	41.8		
2	4-Chloro-3-methylphenol	8.22	-0.01	0.00	107	240690	44.74	44.7		
2	2-Methylnaphthalene	8.42		0.00	142	550005	41.31	41.3		
3	Hexachlorocyclopentadiene	8.70		0.00	237	103116	25.09	25.1		
3	2,4,6-Trichlorophenol	8.80		0.00	196	186906	43.78	43.8		
3	2,4,5-Trichlorophenol	8.84	-0.01	0.00	196	196770	42.54	42.5		
3	2-Chloronaphthalene	9.03		0.00	162	518920	41.87	41.9		
3	2-Nitroaniline	9.18		0.00	65	158985	42.88	42.9		
3	Dimethyl Phthalate	9.43	-0.01	0.00	163	639441	44.67	44.7		
3	Acenaphthylene	9.56		0.00	152	842121	42.69	42.7		
3	2,6-Dinitrotoluene	9.53		0.00	165	146944	45.08	45.1		
3	3-Nitroaniline	9.70		0.00	138	119257	42.41	42.4		
3	Acenaphthene	9.79		0.00	154	508799	42.08	42.1		
3	2,4-Dinitrophenol	9.82		0.00	184	148370	61.92	61.9		
3	4-Nitrophenol	9.88		0.00	109	66175	30.77	30.8	J	
3	Dibenzofuran	9.99	0.01	0.00	168	772049	41.98	42.0		
3	2,4-Dinitrotoluene	10.01	-0.01	0.00	165	188447	44.12	44.1		
3	Fluorene	10.41	-0.01	0.00	166	640813	43.31	43.3		
3	Diethyl Phthalate	10.31		0.00	149	669714	46.36	46.4		
3	4-Chlorophenyl Phenyl Ether	10.40		0.00	204	333706	43.85	43.9		
3	4-Nitroaniline	10.47		0.00	138	106234	42.04	42.0		
4	2-Methyl-4,6-dinitrophenol	10.52		0.00	198	218053	72.77	72.8		
4	N-Nitrosodiphenylamine	10.55		0.00	169	457618	42.84	42.8		
4	Azobenzene	10.59		0.00	77	654076	41.67	41.7		
4	4-Bromophenyl Phenyl Ether	11.00	-0.01	0.00	248	193572	41.84	41.8		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061491.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 11:18	**Quant Date:**	10/25/2006 12:40	**Vial:**	6
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0600914-1			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.20		0.00	284	196909	41.12	41.1		
4	Pentachlorophenol	11.41	-0.01	0.00	266	233677	71.06	71.1		
4	Phenanthrene	11.61		0.00	178	916041	38.92	38.9		
4	Anthracene	11.67		0.00	178	901468	39.79	39.8		
4	Carbazole	11.87		0.00	167	636528	39.87	39.9		
4	Di-n-butyl Phthalate	12.39		0.00	149	1024590	44.73	44.7		
4	Fluoranthene	13.34		0.00	202	897864	42.77	42.8		
5	Benzidine	13.53		0.00	184	400291	69.14	69.1		
5	Pyrene	13.71		0.00	202	869501	40.08	40.1		
5	Butyl Benzyl Phthalate	14.92		0.00	149	358104	45.31	45.3		
5	3,3'-Dichlorobenzidine	15.90		0.00	252	377287	88.29	88.3		
5	Benz(a)anthracene	15.93		0.00	228	632498	44.26	44.3		
5	Chrysene	16.01	-0.01	0.00	228	583190	43.64	43.6		
5	Bis(2-ethylhexyl) Phthalate	16.11	-0.01	0.00	149	474277	49.18	49.2		
5	Mirex	16.79		0.00	272	72630	25.05	25.1		
6	Di-n-octyl Phthalate	17.36		0.00	149	672757	44.73	44.7		
6	Benzo(b)fluoranthene	18.08	-0.01	0.00	252	429310**m**	44.79	44.8		
6	Benzo(k)fluoranthene	18.13	-0.01	0.00	252	409974	43.25	43.3		
6	Benzo(a)pyrene	18.72		0.00	252	345574	45.26	45.3		
6	Indeno(1,2,3-cd)pyrene	21.42		0.00	276	287036	45.62	45.6		
6	Dibenz(a,h)anthracene	21.47	-0.01	0.00	278	235114	43.85	43.9		
6	Benzo(g,h,i)perylene	22.16	-0.02	0.00	276	237641	45.60	45.6		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

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m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1400

Data File:	C:\MSDCHEM\1\DATA\E061025\E061491.D	**Instrument:**	MSE
Lab ID:	DWG0600914-1	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	10/25/2006 11:18
Matrix:	GROUND WATER	**Quant Date:**	10/25/2006 12:40

Duplicate Lab Control Spike Information

Data File:	C:\MSDCHEM\1\DATA\E061025\E061492.D	**Instrument:**	MSE
Lab ID:	DWG0600914-2	**Dilution:**	1
Client ID:	Duplicate Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	10/25/2006 11:50
Matrix:	GROUND WATER	**Quant Date:**	10/25/2006 12:39

	LCS			DLCS					
Parameter Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	40.9	50.0	82	36.1	50.0	72	30-101	12	20
1,2-Dichlorobenzene	39.7	50.0	79	35.6	50.0	71	20-105	11	20
1,3-Dichlorobenzene	39.3	50.0	79	34.5	50.0	69	15-104	13	20
1,4-Dichlorobenzene	38.4	50.0	77	34.3	50.0	69	19-102	11	20
1,4-Dioxane	39.3	50.0	79	35.1	50.0	70	35-101	11	20
2,4,5-Trichlorophenol	42.5	50.0	85	40.7	50.0	81	48-114	4	20
2,4,6-Trichlorophenol	43.8	50.0	88	41.0	50.0	82	48-112	6	20
2,4-Dichlorophenol	41.3	50.0	83	37.9	50.0	76	49-114	9	20
2,4-Dimethylphenol	43.8	50.0	88	39.7	50.0	79	38-107	10	20
2,4-Dinitrophenol	61.9	100	62	64.2	100	64	16-134	4	20
2,4-Dinitrotoluene	44.1	50.0	88	41.4	50.0	83	23-132	6	20
2,6-Dinitrotoluene	45.1	50.0	90	42.0	50.0	84	47-116	7	20
2-Chloronaphthalene	41.9	50.0	84	38.3	50.0	77	41-113	9	20
2-Chlorophenol	39.3	50.0	79	35.8	50.0	72	45-108	9	20
2-Methyl-4,6-dinitrophenol	72.8	100	73	71.6	100	72	21-134	2	20
2-Methylnaphthalene	41.3	50.0	83	37.6	50.0	75	41-112	10	20
2-Methylphenol	42.9	50.0	86	37.9	50.0	76	44-110	13	20
2-Nitroaniline	42.9	50.0	86	40.4	50.0	81	19-137	6	20
2-Nitrophenol	42.4	50.0	85	39.0	50.0	78	47-117	8	20
3,3'-Dichlorobenzidine	88.3	100	88	77.6	100	78	10-122	13	20
3-Nitroaniline	42.4	50.0	85	41.2	50.0	82	25-146	3	20
4-Bromophenyl Phenyl Ether	41.8	50.0	84	38.1	50.0	76	46-117	9	20
4-Chloro-3-methylphenol	44.7	50.0	89	40.5	50.0	81	45-115	10	20
4-Chloroaniline	43.8	50.0	88	41.4	50.0	83	16-139	6	20
4-Chlorophenyl Phenyl Ether	43.9	50.0	88	39.9	50.0	80	45-115	9	20
4-Methylphenol	41.1	50.0	82	36.5	50.0	73	60-108	12	20
4-Nitroaniline	42.0	50.0	84	39.9	50.0	80	16-147	5	20
4-Nitrophenol	30.8	100	31	30.0	100	30	10-134	3	20
Acenaphthene	42.1	50.0	84	38.0	50.0	76	39-119	10	20
Acenaphthylene	42.7	50.0	85	38.5	50.0	77	51-112	10	20
Aniline	41.2	50.0	82	38.5	50.0	77	10-144	7	20
Anthracene	39.8	50.0	80	36.8	50.0	74	40-123	8	20
Benz(a)anthracene	44.3	50.0	89	40.5	50.0	81	36-126	9	20
Benzo(a)pyrene	45.3	50.0	91	41.8	50.0	84	41-125	8	20
Benzo(b)fluoranthene	44.8	50.0	90	40.4	50.0	81	48-126	10	20
Benzo(g,h,i)perylene	45.6	50.0	91	43.4	50.0	87	33-138	5	20
Benzo(k)fluoranthene	43.3	50.0	87	41.4	50.0	83	49-125	4	20
Benzoic acid	5.88	50.0	12	6.75	50.0	14	10-148	14	20

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1400

Data File:	C:\MSDCHEM\1\DATA\E061025\E061491.D	**Instrument:**	MSE
Lab ID:	DWG0600914-1	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	10/25/2006 11:18
Matrix:	GROUND WATER	**Quant Date:**	10/25/2006 12:40

Duplicate Lab Control Spike Information

Data File:	C:\MSDCHEM\1\DATA\E061025\E061492.D	**Instrument:**	MSE
Lab ID:	DWG0600914-2	**Dilution:**	1
Client ID:	Duplicate Lab Control Sample	**Units:**	ug/L
Prod Code:	8270C	**Acqu Date:**	10/25/2006 11:50
Matrix:	GROUND WATER	**Quant Date:**	10/25/2006 12:39

	LCS			DLCS					
Parameter Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Benzyl alcohol	45.0	50.0	90	41.1	50.0	82	48-119	9	20
bis(2-Chloroethoxy)methane	40.9	50.0	82	37.3	50.0	75	39-120	9	20
Bis(2-chloroethyl) Ether	39.6	50.0	79	35.6	50.0	71	41-108	11	20
Bis(2-Chloroisopropyl)ether	39.9	50.0	80	35.6	50.0	71	38-119	12	20
Bis(2-ethylhexyl) Phthalate	49.2	50.0	98	49.5	50.0	99	42-127	1	20
Butyl Benzyl Phthalate	45.3	50.0	91	46.4	50.0	93	40-126	2	20
Chrysene	43.6	50.0	87	40.1	50.0	80	47-117	8	20
Di-n-butyl Phthalate	44.7	50.0	89	39.7	50.0	79	40-126	12	20
Di-n-octyl Phthalate	44.7	50.0	89	45.7	50.0	91	48-127	2	20
Dibenz(a,h)anthracene	43.9	50.0	88	40.8	50.0	82	44-137	7	20
Dibenzofuran	42.0	50.0	84	38.7	50.0	77	45-115	8	20
Diethyl Phthalate	46.4	50.0	93	41.6	50.0	83	41-120	11	20
Dimethyl Phthalate	44.7	50.0	89	40.4	50.0	81	46-116	10	20
Fluoranthene	42.8	50.0	86	38.6	50.0	77	35-127	10	20
Fluorene	43.3	50.0	87	39.4	50.0	79	46-121	10	20
Hexachlorobenzene	41.1	50.0	82	37.1	50.0	74	44-117	10	20
Hexachlorobutadiene	41.8	50.0	84	37.5	50.0	75	17-101	11	20
Hexachlorocyclopentadiene	25.1	50.0	50	25.7	50.0	51	10-74	2	20
Hexachloroethane	39.2	50.0	78	34.5	50.0	69	10-105	13	20
Indeno(1,2,3-cd)pyrene	45.6	50.0	91	43.3	50.0	87	38-131	5	20
Isophorone	45.1	50.0	90	40.6	50.0	81	44-115	10	20
N-Nitrosodi-n-propylamine	45.4	50.0	91	40.9	50.0	82	43-112	11	20
N-Nitrosodimethylamine	38.8	50.0	78	34.9	50.0	70	35-119	11	20
N-Nitrosodiphenylamine	42.8	50.0	86	39.0	50.0	78	53-106	9	20
Naphthalene	40.4	50.0	81	36.6	50.0	73	36-111	10	20
Nitrobenzene	42.1	50.0	84	38.2	50.0	76	42-116	10	20
Pentachlorophenol	71.1	100	71	69.4	100	69	15-141	2	20
Phenanthrene	38.9	50.0	78	35.5	50.0	71	43-120	9	20
Phenol	23.5	50.0	47	19.3	50.0	39	20-119	20	20
Pyrene	40.1	50.0	80	44.0	50.0	88	29-140	9	20
Pyridine	36.0	50.0	72	33.1	50.0	66	23-98	8	20

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061491.D Vial: 6
Acq On : 25 Oct 2006 11:18 am Operator: SC
Sample : LCS 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15:46 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/26/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	198812	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	757229	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.75	164	477455	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	825446	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	511280	40.00	mg/L	-0.04
80) Perylene-d12	18.84	264	298949	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.60	112	134526	25.19	mg/L	0.00
Spiked Amount 50.000			Recovery = 50.38%			
7) Phenol-d5	5.55	99	163740	22.95	mg/L	-0.01
Spiked Amount 50.000			Recovery = 45.90%			
23) Nitrobenzene-d5	6.67	82	292698	44.14	mg/L	0.00
Spiked Amount 50.000			Recovery = 88.28%			
41) 2-Fluorobiphenyl	8.90	172	633210	44.10	mg/L	-0.02
Spiked Amount 50.000			Recovery = 88.20%			
61) 2,4,6-Tribromophenol	10.73	330	83249	44.45	mg/L	-0.02
Spiked Amount 50.000			Recovery = 88.90%			
73) Terphenyl-d14	13.97	244	569998	42.04	mg/L	-0.03
Spiked Amount 50.000			Recovery = 84.08%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	128880	39.28	mg/L	100
3) N-Nitrosodimethylamine	3.36	42	148608	38.83	mg/L	90
4) Pyridine	3.37	79	292865	35.96	mg/L	95
5) PGMEA	4.54	43	379149	39.92	mg/L	97
8) Phenol	5.56	94	179935	23.49	mg/L	97
9) Aniline	5.63	93	365404	41.23	mg/L	97
10) Bis(2-chloroethyl)ether	5.68	93	253585	39.57	mg/L	98
11) 2-Chlorophenol	5.76	128	248125	39.30	mg/L	99
12) 1,3-Dichlorobenzene	5.94	146	296335	39.28	mg/L	99
13) 1,4-Dichlorobenzene	5.99	146	300238	38.36	mg/L	100
14) Benzyl alcohol	6.14	108	173632	45.00	mg/L	95
15) 1,2-Dichlorobenzene	6.22	146	283064	39.67	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.22	99	180504	44.91	mg/L	98
17) 2-Methylphenol	6.28	108	237598	42.93	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.33	45	356083	39.93	mg/L	97
19) 4-Methylphenol	6.45	107	295961	41.13	mg/L	99
20) N-Nitrosodi-n-propylamine	6.50	70	208254	45.42	mg/L	95
21) Hexachloroethane	6.60	117	115094	39.24	mg/L	95
24) Nitrobenzene	6.69	77	308367	42.12	mg/L	98
25) Isophorone	6.97	82	550588	45.13	mg/L	98
26) 2-Nitrophenol	7.08	139	147778	42.41	mg/L #	79
27) 2,4-Dimethylphenol	7.11	122	234949	43.83	mg/L	97
28) Benzoic acid	7.18	122	21468	5.88	mg/L	94
29) Bis(2-chloroethoxy)methane	7.23	93	299829	40.91	mg/L	96
30) 2,4-Dichlorophenol	7.37	162	226666	41.31	mg/L	99
31) 1,2,4-Trichlorobenzene	7.48	180	268652	40.88	mg/L	99
32) Naphthalene	7.57	128	757937	40.35	mg/L	99
33) 4-Chloroaniline	7.64	127	287624	43.80	mg/L	99
34) Hexachlorobutadiene	7.78	225	169448	41.75	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061491.D Vial: 6
Acq On : 25 Oct 2006 11:18 am Operator: SC
Sample : LCS 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15:46 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

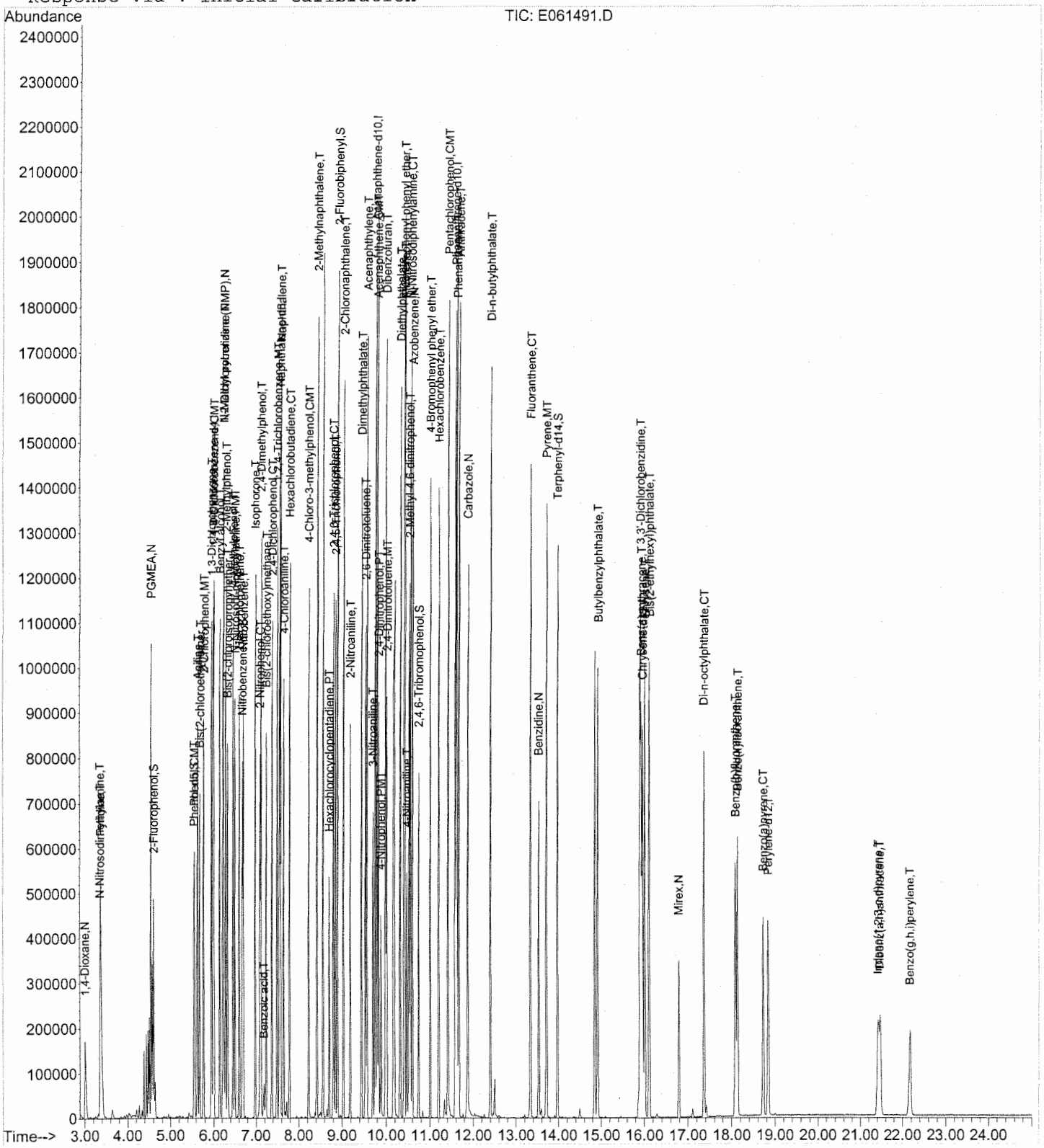
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.22	107	240690	44.74 mg/L		99
36)	2-Methylnaphthalene	8.42	142	550005	41.31 mg/L		99
38)	Hexachlorocyclopentadiene	8.70	237	103116	25.09 mg/L		97
39)	2,4,6-Trichlorophenol	8.80	196	186906	43.78 mg/L		100
40)	2,4,5-Trichlorophenol	8.84	196	196770	42.54 mg/L		99
42)	2-Chloronaphthalene	9.03	162	518920	41.87 mg/L		99
43)	2-Nitroaniline	9.18	65	158985	42.88 mg/L		99
44)	Dimethylphthalate	9.43	163	639441	44.67 mg/L		99
45)	Acenaphthylene	9.56	152	842121	42.69 mg/L		100
46)	2,6-Dinitrotoluene	9.53	165	146944	45.08 mg/L		97
47)	3-Nitroaniline	9.70	138	119257	42.41 mg/L		97
48)	Acenaphthene	9.79	154	508799	42.08 mg/L		99
49)	2,4-Dinitrophenol	9.82	184	148370	61.92 mg/L		94
50)	4-Nitrophenol	9.88	109	66175	30.77 mg/L		97
51)	Dibenzofuran	9.99	168	772049	41.98 mg/L		100
52)	2,4-Dinitrotoluene	10.01	165	188447	44.12 mg/L	#	89
53)	Fluorene	10.41	166	640813	43.31 mg/L		100
54)	Diethylphthalate	10.31	149	669714	46.36 mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.40	204	333706	43.85 mg/L		97
56)	4-Nitroaniline	10.47	138	106234	42.04 mg/L		98
58)	2-Methyl-4,6-dinitrophenol	10.52	198	218053	72.77 mg/L		97
59)	N-Nitrosodiphenylamine	10.55	169	457618	42.84 mg/L		100
60)	Azobenzene	10.59	77	654076	41.67 mg/L		98
62)	4-Bromophenyl phenyl ether	11.00	248	193572	41.84 mg/L		96
63)	Hexachlorobenzene	11.20	284	196909	41.12 mg/L		99
64)	Pentachlorophenol	11.41	266	233677	71.06 mg/L		100
65)	Phenanthrene	11.61	178	916041	38.92 mg/L		99
66)	Anthracene	11.67	178	901468	39.79 mg/L		100
67)	Carbazole	11.87	167	636528	39.87 mg/L		100
68)	Di-n-butylphthalate	12.39	149	1024590	44.73 mg/L		100
69)	Fluoranthene	13.34	202	897864	42.77 mg/L		99
71)	Benzidine	13.53	184	400291	69.14 mg/L		100
72)	Pyrene	13.71	202	869501	40.08 mg/L		100
74)	Butylbenzylphthalate	14.92	149	358104	45.31 mg/L		99
75)	3,3'-Dichlorobenzidine	15.90	252	377287	88.29 mg/L		99
76)	Benz(a)anthracene	15.93	228	632498	44.26 mg/L		98
77)	Chrysene	16.01	228	583190	43.64 mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.11	149	474277	49.18 mg/L		99
79)	Mirex	16.79	272	72630	25.05 mg/L		98
81)	Di-n-octylphthalate	17.36	149	672757	44.73 mg/L		100
82)	Benzo(b)fluoranthene	18.08	252	429310m	44.79 mg/L		
83)	Benzo(k)fluoranthene	18.13	252	409974	43.25 mg/L		99
84)	Benzo(a)pyrene	18.72	252	345574	45.26 mg/L		100
85)	Indeno(1,2,3-c,d)pyrene	21.42	276	287036	45.62 mg/L		94
86)	Dibenz(a,h)anthracene	21.47	278	235114	43.85 mg/L		98
87)	Benzo(g,h,i)perylene	22.16	276	237641	45.60 mg/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061491.D Vial: 6
Acq On : 25 Oct 2006 11:18 am Operator: SC
Sample : LCS 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:40 2006 Quant Results File: BA061011.RES

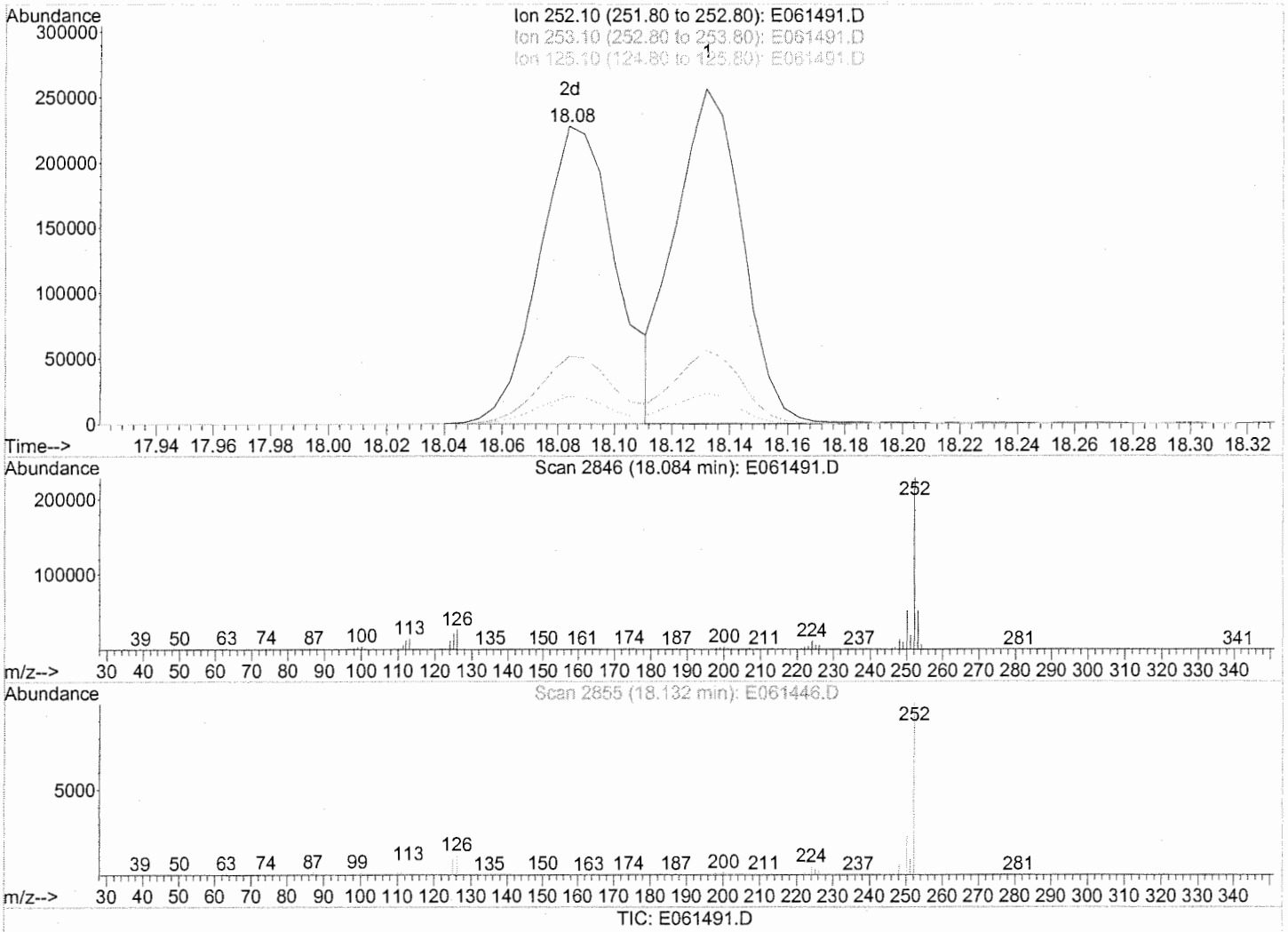
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061025\E061491.D Vial: 6
Acq On : 25 Oct 2006 11:18 am Operator: SC
Sample : LCS 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:40 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Multiple Level Calibration



TIC: E061491.D

(82) Benzo(b)fluoranthene (T)

18.08min 44.79mg/L m

response 429310

Ion	Exp%	Act%
252.10	100	100
253.10	21.80	20.54
125.10	8.90	8.81
0.00	0.00	0.00

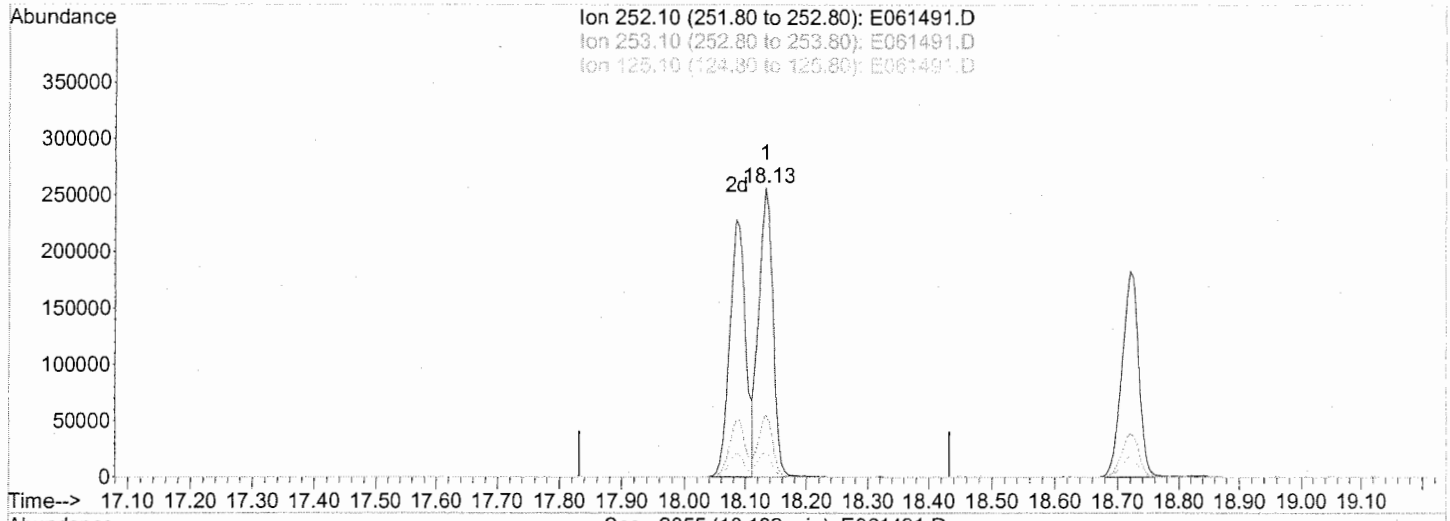
Wrong pur
Ex. 10/26/06

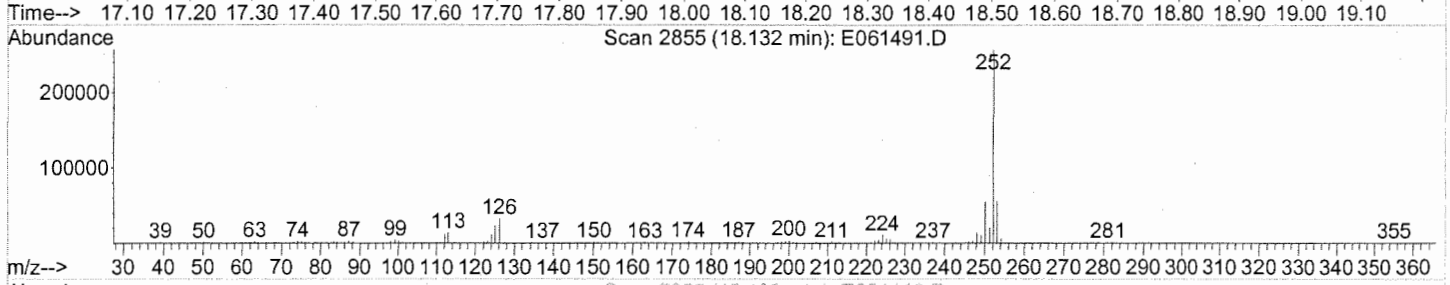
10/26/06

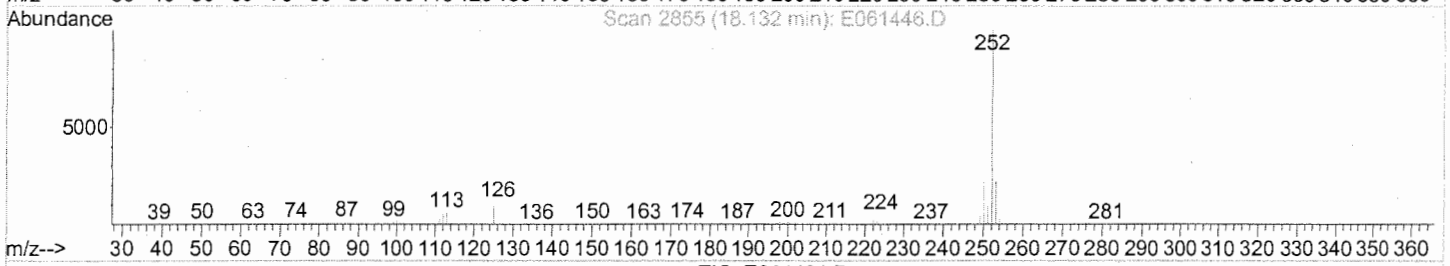
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061025\E061491.D Vial: 6
Acq On : 25 Oct 2006 11:18 am Operator: SC
Sample : LCS 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Multiple Level Calibration







TIC: E061491.D

(82) Benzo(b)fluoranthene (T)

18.13min 42.77mg/L

response 409974

Ion	Exp%	Act%
252.10	100	100
253.10	21.80	21.51
125.10	8.90	9.22
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061491.D Vial: 6
Acq On : 25 Oct 2006 11:18 am Operator: SC
Sample : LCS 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15:46 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	198812	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	757229	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.75	164	477455	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	825446	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	511280	40.00	mg/L	-0.04
80) Perylene-d12	18.84	264	298949	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.60	112	134526	25.19	mg/L	0.00
Spiked Amount 50.000			Recovery = 50.38%			
7) Phenol-d5	5.55	99	163740	22.95	mg/L	-0.01
Spiked Amount 50.000			Recovery = 45.90%			
23) Nitrobenzene-d5	6.67	82	292698	44.14	mg/L	0.00
Spiked Amount 50.000			Recovery = 88.28%			
41) 2-Fluorobiphenyl	8.90	172	633210	44.10	mg/L	-0.02
Spiked Amount 50.000			Recovery = 88.20%			
61) 2,4,6-Tribromophenol	10.73	330	83249	44.45	mg/L	-0.02
Spiked Amount 50.000			Recovery = 88.90%			
73) Terphenyl-d14	13.97	244	569998	42.04	mg/L	-0.03
Spiked Amount 50.000			Recovery = 84.08%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	128880	39.28	mg/L	100
3) N-Nitrosodimethylamine	3.36	42	148608	38.83	mg/L	90
4) Pyridine	3.37	79	292865	35.96	mg/L	95
5) PGMEA	4.54	43	379149	39.92	mg/L	97
8) Phenol	5.56	94	179935	23.49	mg/L	97
9) Aniline	5.63	93	365404	41.23	mg/L	97
10) Bis(2-chloroethyl)ether	5.68	93	253585	39.57	mg/L	98
11) 2-Chlorophenol	5.76	128	248125	39.30	mg/L	99
12) 1,3-Dichlorobenzene	5.94	146	296335	39.28	mg/L	99
13) 1,4-Dichlorobenzene	5.99	146	300238	38.36	mg/L	100
14) Benzyl alcohol	6.14	108	173632	45.00	mg/L	95
15) 1,2-Dichlorobenzene	6.22	146	283064	39.67	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.22	99	180504	44.91	mg/L	98
17) 2-Methylphenol	6.28	108	237598	42.93	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.33	45	356083	39.93	mg/L	97
19) 4-Methylphenol	6.45	107	295961	41.13	mg/L	99
20) N-Nitrosodi-n-propylamine	6.50	70	208254	45.42	mg/L	95
21) Hexachloroethane	6.60	117	115094	39.24	mg/L	95
24) Nitrobenzene	6.69	77	308367	42.12	mg/L	98
25) Isophorone	6.97	82	550588	45.13	mg/L	98
26) 2-Nitrophenol	7.08	139	147778	42.41	mg/L #	79
27) 2,4-Dimethylphenol	7.11	122	234949	43.83	mg/L	97
28) Benzoic acid	7.18	122	21468	5.88	mg/L	94
29) Bis(2-chloroethoxy)methane	7.23	93	299829	40.91	mg/L	96
30) 2,4-Dichlorophenol	7.37	162	226666	41.31	mg/L	99
31) 1,2,4-Trichlorobenzene	7.48	180	268652	40.88	mg/L	99
32) Naphthalene	7.57	128	757937	40.35	mg/L	99
33) 4-Chloroaniline	7.64	127	287624	43.80	mg/L	99
34) Hexachlorobutadiene	7.78	225	169448	41.75	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061491.D Vial: 6
Acq On : 25 Oct 2006 11:18 am Operator: SC
Sample : LCS 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15:46 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

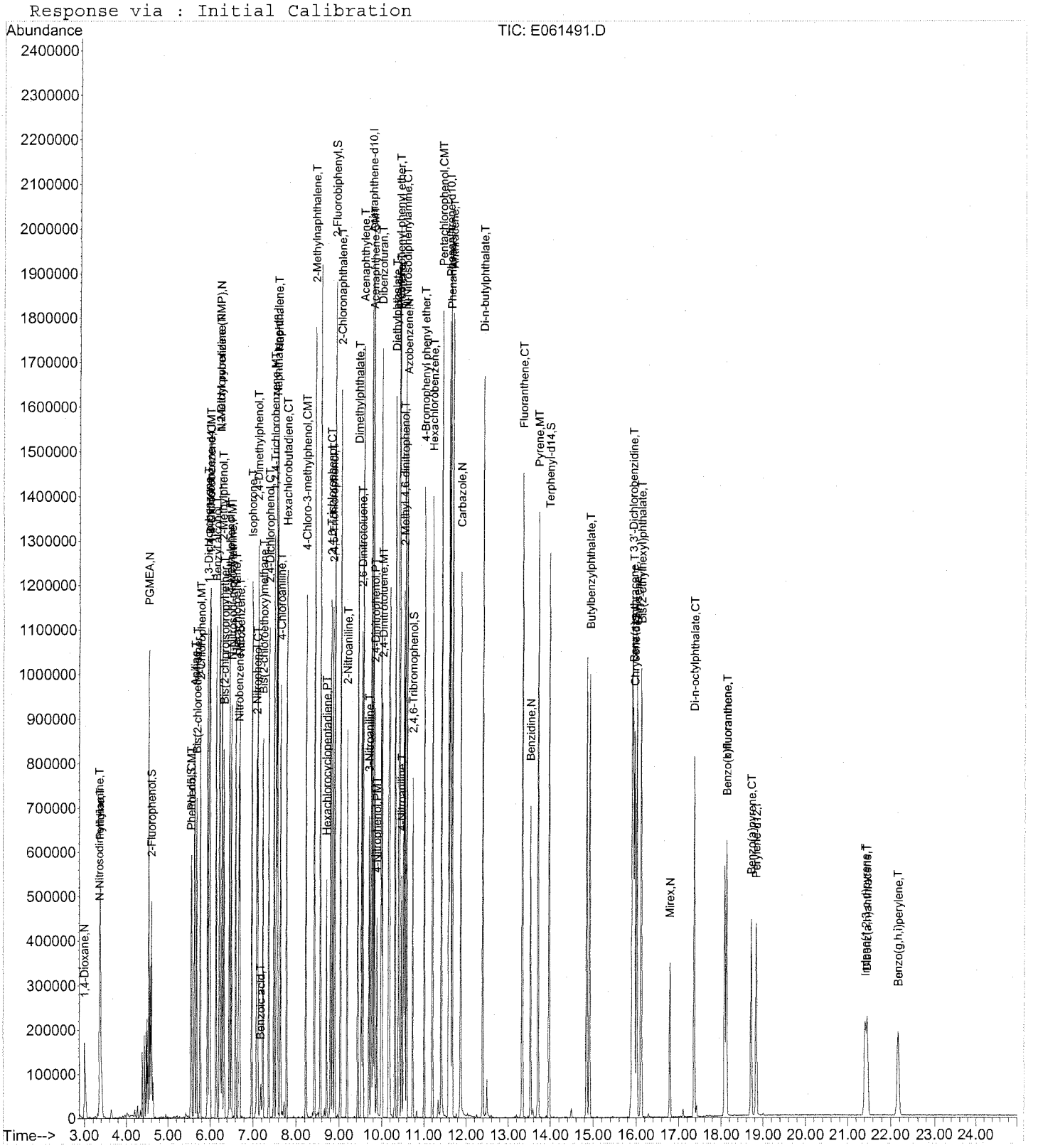
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.22	107	240690	44.74	mg/L		99
36)	2-Methylnaphthalene	8.42	142	550005	41.31	mg/L		99
38)	Hexachlorocyclopentadiene	8.70	237	103116	25.09	mg/L		97
39)	2,4,6-Trichlorophenol	8.80	196	186906	43.78	mg/L		100
40)	2,4,5-Trichlorophenol	8.84	196	196770	42.54	mg/L		99
42)	2-Chloronaphthalene	9.03	162	518920	41.87	mg/L		99
43)	2-Nitroaniline	9.18	65	158985	42.88	mg/L		99
44)	Dimethylphthalate	9.43	163	639441	44.67	mg/L		99
45)	Acenaphthylene	9.56	152	842121	42.69	mg/L		100
46)	2,6-Dinitrotoluene	9.53	165	146944	45.08	mg/L		97
47)	3-Nitroaniline	9.70	138	119257	42.41	mg/L		97
48)	Acenaphthene	9.79	154	508799	42.08	mg/L		99
49)	2,4-Dinitrophenol	9.82	184	148370	61.92	mg/L		94
50)	4-Nitrophenol	9.88	109	66175	30.77	mg/L		97
51)	Dibenzofuran	9.99	168	772049	41.98	mg/L		100
52)	2,4-Dinitrotoluene	10.01	165	188447	44.12	mg/L	#	89
53)	Fluorene	10.41	166	640813	43.31	mg/L		100
54)	Diethylphthalate	10.31	149	669714	46.36	mg/L		100
55)	4-Chlorophenyl phenyl ethe	10.40	204	333706	43.85	mg/L		97
56)	4-Nitroaniline	10.47	138	106234	42.04	mg/L		98
58)	2-Methyl-4,6-dinitrophenol	10.52	198	218053	72.77	mg/L		97
59)	N-Nitrosodiphenylamine	10.55	169	457618	42.84	mg/L		100
60)	Azobenzene	10.59	77	654076	41.67	mg/L		98
62)	4-Bromophenyl phenyl ether	11.00	248	193572	41.84	mg/L		96
63)	Hexachlorobenzene	11.20	284	196909	41.12	mg/L		99
64)	Pentachlorophenol	11.41	266	233677	71.06	mg/L		100
65)	Phenanthrene	11.61	178	916041	38.92	mg/L		99
66)	Anthracene	11.67	178	901468	39.79	mg/L		100
67)	Carbazole	11.87	167	636528	39.87	mg/L		100
68)	Di-n-butylphthalate	12.39	149	1024590	44.73	mg/L		100
69)	Fluoranthene	13.34	202	897864	42.77	mg/L		99
71)	Benzidine	13.53	184	400291	69.14	mg/L		100
72)	Pyrene	13.71	202	869501	40.08	mg/L		100
74)	Butylbenzylphthalate	14.92	149	358104	45.31	mg/L		99
75)	3,3'-Dichlorobenzidine	15.90	252	377287	88.29	mg/L		99
76)	Benz(a)anthracene	15.93	228	632498	44.26	mg/L		98
77)	Chrysene	16.01	228	583190	43.64	mg/L		99
78)	Bis(2-ethylhexyl)phthalate	16.11	149	474277	49.18	mg/L		99
79)	Mirex	16.79	272	72630	25.05	mg/L		98
81)	Di-n-octylphthalate	17.36	149	672757	44.73	mg/L		100
82)	Benzo(b)fluoranthene	18.13	252	409974	42.77	mg/L		99
83)	Benzo(k)fluoranthene	18.13	252	409974	43.25	mg/L		99
84)	Benzo(a)pyrene	18.72	252	345574	45.26	mg/L		100
85)	Indeno(1,2,3-c,d)pyrene	21.42	276	287036	45.62	mg/L		94
86)	Dibenz(a,h)anthracene	21.47	278	235114	43.85	mg/L		98
87)	Benzo(g,h,i)perylene	22.16	276	237641	45.60	mg/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061491.D Vial: 6
Acq On : 25 Oct 2006 11:18 am Operator: SC
Sample : LCS 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	GROUND WATE
Prod Code:	8270C	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75182	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:			
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061492.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 11:50	**Quant Date:**	10/25/2006 12:39	**Vial:**	7
Run Type:	DLCS			**Dilution:**	1.0
Lab ID:	DWG0600914-2			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	0.00?	152	231903	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	881298	40.00	OK
3	Acenaphthene-d10	9.75	0.00?	164	549344	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	961449	40.00	OK
5	Chrysene-d12	15.96	0.00?	240	487775	40.00	OK
6	Perylene-d12	18.84	0.00?	264	255565	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.61	0.00	0.00	112	136814	21.97	44	23-115	OK	
1	Phenol-d5	5.55	0.00	0.00	99	151143	18.16	36	23-121	OK	
2	Nitrobenzene-d5	6.67	0.00	0.00	82	300772	38.98	78	42-122	OK	
3	2-Fluorobiphenyl	8.90	0.01	0.00	172	649465	39.31	79	47-110	OK	
4	2,4,6-Tribromophenol	10.74	0.00	0.00	330	89236	40.91	82	31-112	OK	
5	Terphenyl-d14	13.97	0.00	0.00	244	572410	44.25	89	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.01	0.01	0.00	88	134228	35.07	35.1		
1	N-Nitrosodimethylamine	3.36	0.01	0.00	42	155597	34.86	34.9		
1	Pyridine	3.38	0.01	0.00	79	314492	33.11	33.1		
1	PGMEA	4.54		0.00	43	391803	35.36	35.4		
1	Phenol	5.56	-0.01	0.00	94	172248	19.27	19.3		
1	Aniline	5.63		0.00	93	398423	38.54	38.5		
1	Bis(2-chloroethyl) Ether	5.68		0.00	93	266106	35.60	35.6		
1	2-Chlorophenol	5.76		0.00	128	263443	35.77	35.8		
1	1,3-Dichlorobenzene	5.94		0.00	146	303591	34.50	34.5		
1	1,4-Dichlorobenzene	5.99		0.00	146	313134	34.30	34.3		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061492.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 11:50	**Quant Date:**	10/25/2006 12:39	**Vial:**	7
Run Type:	DLCS			**Dilution:**	1.0
Lab ID:	DWG0600914-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Benzyl alcohol	6.14		0.00	108	185000	41.10	41.1		
1	1,2-Dichlorobenzene	6.22		0.00	146	296266	35.59	35.6		
1	1-Methyl-2-pyrrolidinone	6.22	-0.01	0.00	99	191548	40.86	40.9		
1	2-Methylphenol	6.28	-0.01	0.00	108	244348	37.85	37.9		
1	Bis(2-Chloroisopropyl)ether	6.33		0.00	45	369985	35.57	35.6		
1	4-Methylphenol	6.45		0.00	107	306335	36.49	36.5		
1	N-Nitrosodi-n-propylamine	6.50		0.00	70	218519	40.85	40.9		
1	Hexachloroethane	6.60		0.00	117	118051	34.51	34.5		
2	Nitrobenzene	6.69		0.00	77	325713	38.23	38.2		
2	Isophorone	6.97		0.00	82	576955	40.63	40.6		
2	2-Nitrophenol	7.08		0.00	139	158098	38.98	39.0		
2	2,4-Dimethylphenol	7.11		0.00	122	247514	39.68	39.7		
2	Benzoic acid	7.19	-0.04	-0.01	122	28691	6.75	6.75	J	
2	bis(2-Chloroethoxy)methane	7.23		0.00	93	318234	37.31	37.3		
2	2,4-Dichlorophenol	7.37		0.00	162	241789	37.86	37.9		
2	1,2,4-Trichlorobenzene	7.48		0.00	180	276437	36.14	36.1		
2	Naphthalene	7.57		0.00	128	799387	36.57	36.6		
2	4-Chloroaniline	7.64		0.00	127	316701	41.43	41.4		
2	Hexachlorobutadiene	7.78		0.00	225	177338	37.54	37.5		
2	4-Chloro-3-methylphenol	8.23		0.00	107	253296	40.45	40.5		
2	2-Methylnaphthalene	8.42		0.00	142	581959	37.56	37.6		
3	Hexachlorocyclopentadiene	8.70		0.00	237	121280	25.65	25.7		
3	2,4,6-Trichlorophenol	8.80		0.00	196	201591	41.04	41.0		
3	2,4,5-Trichlorophenol	8.85		0.00	196	216769	40.73	40.7		
3	2-Chloronaphthalene	9.03		0.00	162	546741	38.34	38.3		
3	2-Nitroaniline	9.18		0.00	65	172189	40.37	40.4		
3	Dimethyl Phthalate	9.44		0.00	163	664778	40.36	40.4		
3	Acenaphthylene	9.56		0.00	152	874081	38.51	38.5		
3	2,6-Dinitrotoluene	9.53		0.00	165	157359	41.95	42.0		
3	3-Nitroaniline	9.70		0.00	138	133444	41.24	41.2		
3	Acenaphthene	9.79		0.00	154	529206	38.04	38.0		
3	2,4-Dinitrophenol	9.82		0.00	184	177810	64.21	64.2		
3	4-Nitrophenol	9.88		0.00	109	74191	29.98	30.0	J	
3	Dibenzofuran	9.98		0.00	168	818031	38.66	38.7		
3	2,4-Dinitrotoluene	10.01	-0.01	0.00	165	203325	41.37	41.4		
3	Fluorene	10.41	-0.01	0.00	166	670095	39.36	39.4		
3	Diethyl Phthalate	10.31		0.00	149	691693	41.61	41.6		
3	4-Chlorophenyl Phenyl Ether	10.40		0.00	204	349278	39.89	39.9		
3	4-Nitroaniline	10.47		0.00	138	115981	39.90	39.9		
4	2-Methyl-4,6-dinitrophenol	10.52		0.00	198	249936	71.61	71.6		
4	N-Nitrosodiphenylamine	10.55		0.00	169	485815	39.04	39.0		
4	Azobenzene	10.59		0.00	77	670120	36.66	36.7		
4	4-Bromophenyl Phenyl Ether	11.00	-0.01	0.00	248	205186	38.08	38.1		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061492.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 11:50	**Quant Date:**	10/25/2006 12:39	**Vial:**	7
Run Type:	DLCS			**Dilution:**	1.0
Lab ID:	DWG0600914-2			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Hexachlorobenzene	11.20		0.00	284	206912	37.10	37.1		
4	Pentachlorophenol	11.42		0.00	266	265757	69.38	69.4		
4	Phenanthrene	11.61		0.00	178	971715	35.45	35.5		
4	Anthracene	11.67		0.00	178	970235	36.77	36.8		
4	Carbazole	11.87		0.00	167	675949	36.75	36.8		
4	Di-n-butyl Phthalate	12.39		0.00	149	1060315	39.74	39.7		
4	Fluoranthene	13.33	-0.01	0.00	202	942721	38.55	38.6		
5	Benzidine	13.53		0.00	184	401588	72.70	72.7		
5	Pyrene	13.71		0.00	202	910068	43.97	44.0		
5	Butyl Benzyl Phthalate	14.92		0.00	149	349647	46.37	46.4		
5	3,3'-Dichlorobenzidine	15.90		0.00	252	312612	77.63	77.6		
5	Benz(a)anthracene	15.93		0.00	228	551618	40.46	40.5		
5	Chrysene	16.01	-0.01	0.00	228	511556	40.12	40.1		
5	Bis(2-ethylhexyl) Phthalate	16.11	-0.01	0.00	149	455210	49.48	49.5		
5	Mirex	16.79		0.00	272	74543	26.94	26.9		
6	Di-n-octyl Phthalate	17.36		0.00	149	587459	45.69	45.7		
6	Benzo(b)fluoranthene	18.08	-0.01	0.00	252	331358**m**	40.44	40.4		
6	Benzo(k)fluoranthene	18.13	-0.01	0.00	252	335721	41.43	41.4		
6	Benzo(a)pyrene	18.71	-0.01	0.00	252	272758	41.78	41.8		
6	Indeno(1,2,3-cd)pyrene	21.41	-0.01	0.00	276	232871	43.29	43.3		
6	Dibenz(a,h)anthracene	21.47	-0.01	0.00	278	186752	40.75	40.8		
6	Benzo(g,h,i)perylene	22.16	-0.02	0.00	276	193534	43.44	43.4		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
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D: Result from dilution
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#: Acceptance criteria not applicable
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c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061492.D Vial: 7
Acq On : 25 Oct 2006 11:50 am Operator: SC
Sample : LCSD 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15:55 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/26/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	231903	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	881298	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.75	164	549344	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	961449	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	487775	40.00	mg/L	-0.04
80) Perylene-d12	18.84	264	255565	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	136814	21.97	mg/L	0.00
Spiked Amount 50.000			Recovery = 43.94%			
7) Phenol-d5	5.55	99	151143	18.16	mg/L	-0.01
Spiked Amount 50.000			Recovery = 36.32%			
23) Nitrobenzene-d5	6.67	82	300772	38.98	mg/L	0.00
Spiked Amount 50.000			Recovery = 77.96%			
41) 2-Fluorobiphenyl	8.90	172	649465	39.31	mg/L	-0.02
Spiked Amount 50.000			Recovery = 78.62%			
61) 2,4,6-Tribromophenol	10.74	330	89236	40.91	mg/L	-0.01
Spiked Amount 50.000			Recovery = 81.82%			
73) Terphenyl-d14	13.97	244	572410	44.25	mg/L	-0.03
Spiked Amount 50.000			Recovery = 88.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	134228	35.07	mg/L	97
3) N-Nitrosodimethylamine	3.36	42	155597	34.86	mg/L	90
4) Pyridine	3.38	79	314492	33.11	mg/L	95
5) PGMEA	4.54	43	391803	35.36	mg/L	98
8) Phenol	5.56	94	172248	19.27	mg/L	98
9) Aniline	5.63	93	398423	38.54	mg/L	98
10) Bis(2-chloroethyl)ether	5.68	93	266106	35.60	mg/L	98
11) 2-Chlorophenol	5.76	128	263443	35.77	mg/L	99
12) 1,3-Dichlorobenzene	5.94	146	303591	34.50	mg/L	99
13) 1,4-Dichlorobenzene	5.99	146	313134	34.30	mg/L	99
14) Benzyl alcohol	6.14	108	185000	41.10	mg/L	95
15) 1,2-Dichlorobenzene	6.22	146	296266	35.59	mg/L	99
16) N-Methyl pyrrolidine (NMP)	6.22	99	191548	40.86	mg/L	98
17) 2-Methylphenol	6.28	108	244348	37.85	mg/L	98
18) Bis(2-chloroisopropyl)ethe	6.33	45	369985	35.57	mg/L	97
19) 4-Methylphenol	6.45	107	306335	36.49	mg/L	99
20) N-Nitrosodi-n-propylamine	6.50	70	218519	40.85	mg/L	94
21) Hexachloroethane	6.60	117	118051	34.51	mg/L	95
24) Nitrobenzene	6.69	77	325713	38.23	mg/L	97
25) Isophorone	6.97	82	576955	40.63	mg/L	99
26) 2-Nitrophenol	7.08	139	158098	38.98	mg/L #	81
27) 2,4-Dimethylphenol	7.11	122	247514	39.68	mg/L	99
28) Benzoic acid	7.19	122	28691	6.75	mg/L	100
29) Bis(2-chloroethoxy)methane	7.23	93	318234	37.31	mg/L	97
30) 2,4-Dichlorophenol	7.37	162	241789	37.86	mg/L	98
31) 1,2,4-Trichlorobenzene	7.48	180	276437	36.14	mg/L	100
32) Naphthalene	7.57	128	799387	36.57	mg/L	99
33) 4-Chloroaniline	7.64	127	316701	41.43	mg/L	99
34) Hexachlorobutadiene	7.78	225	177338	37.54	mg/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061492.D Vial: 7
Acq On : 25 Oct 2006 11:50 am Operator: SC
Sample : LCSD 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15:55 2006 Quant Results File: BA061011.RES

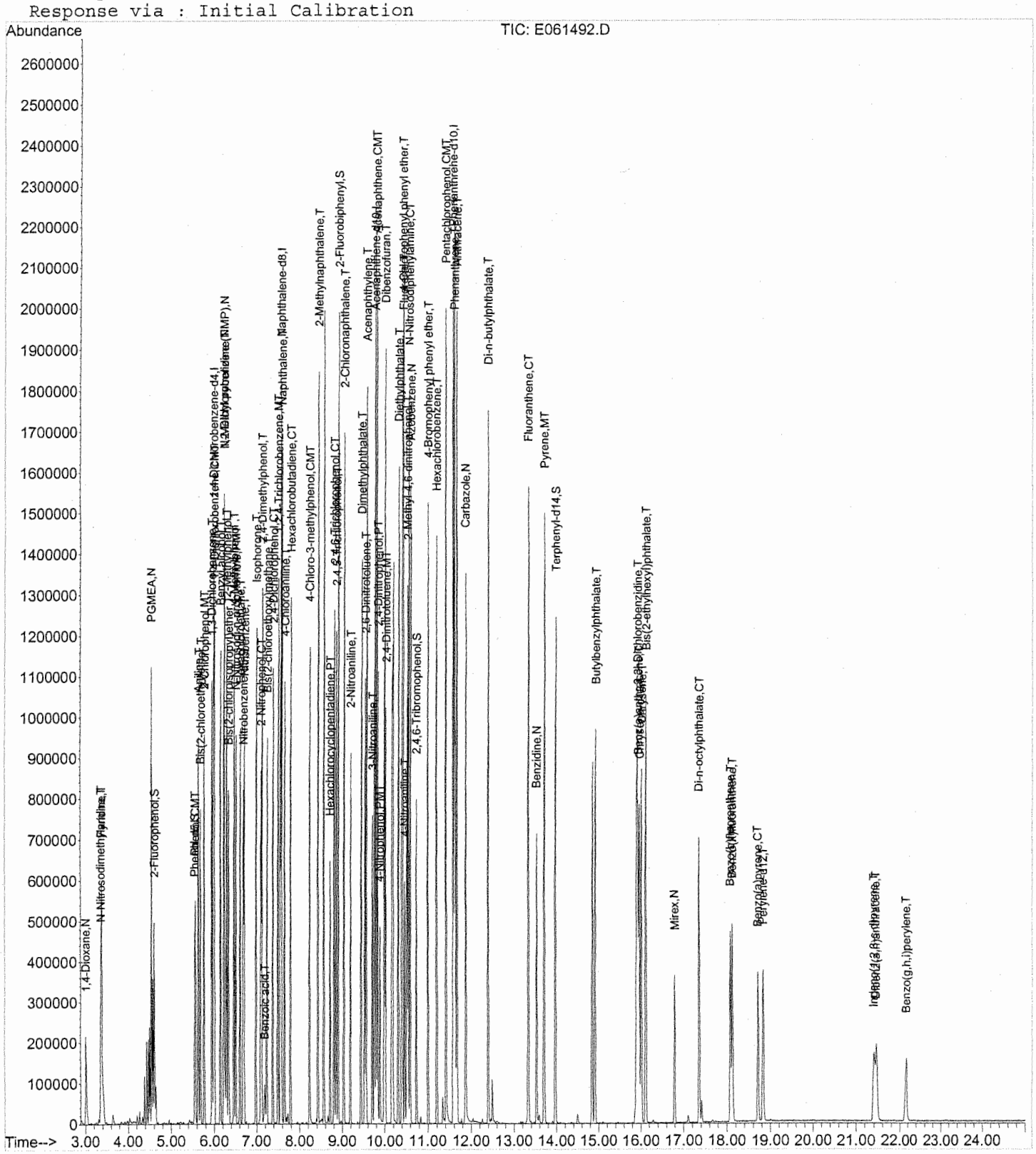
Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.23	107	253296	40.45	mg/L		99
36)	2-Methylnaphthalene	8.42	142	581959	37.56	mg/L		100
38)	Hexachlorocyclopentadiene	8.70	237	121280	25.65	mg/L		98
39)	2,4,6-Trichlorophenol	8.80	196	201591	41.04	mg/L		99
40)	2,4,5-Trichlorophenol	8.85	196	216769	40.73	mg/L		97
42)	2-Chloronaphthalene	9.03	162	546741	38.34	mg/L		99
43)	2-Nitroaniline	9.18	65	172189	40.37	mg/L		98
44)	Dimethylphthalate	9.44	163	664778	40.36	mg/L		99
45)	Acenaphthylene	9.56	152	874081	38.51	mg/L		100
46)	2,6-Dinitrotoluene	9.53	165	157359	41.95	mg/L		100
47)	3-Nitroaniline	9.70	138	133444	41.24	mg/L		97
48)	Acenaphthene	9.79	154	529206	38.04	mg/L		99
49)	2,4-Dinitrophenol	9.82	184	177810	64.21	mg/L		95
50)	4-Nitrophenol	9.88	109	74191	29.98	mg/L		98
51)	Dibenzofuran	9.98	168	818031	38.66	mg/L		99
52)	2,4-Dinitrotoluene	10.01	165	203325	41.37	mg/L		99
53)	Fluorene	10.41	166	670095	39.36	mg/L		99
54)	Diethylphthalate	10.31	149	691693	41.61	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.40	204	349278	39.89	mg/L		97
56)	4-Nitroaniline	10.47	138	115981	39.90	mg/L		98
58)	2-Methyl-4,6-dinitrophenol	10.52	198	249936	71.61	mg/L		95
59)	N-Nitrosodiphenylamine	10.55	169	485815	39.04	mg/L		92
60)	Azobenzene	10.59	77	670120	36.66	mg/L		97
62)	4-Bromophenyl phenyl ether	11.00	248	205186	38.08	mg/L		97
63)	Hexachlorobenzene	11.20	284	206912	37.10	mg/L		100
64)	Pentachlorophenol	11.42	266	265757	69.38	mg/L		100
65)	Phenanthrene	11.61	178	971715	35.45	mg/L		100
66)	Anthracene	11.67	178	970235	36.77	mg/L		99
67)	Carbazole	11.87	167	675949	36.75	mg/L		99
68)	Di-n-butylphthalate	12.39	149	1060315	39.74	mg/L		99
69)	Fluoranthene	13.33	202	942721	38.55	mg/L		99
71)	Benzidine	13.53	184	401588	72.70	mg/L		100
72)	Pyrene	13.71	202	910068	43.97	mg/L		100
74)	Butylbenzylphthalate	14.92	149	349647	46.37	mg/L		100
75)	3,3'-Dichlorobenzidine	15.90	252	312612	77.63	mg/L		99
76)	Benz(a)anthracene	15.93	228	551618	40.46	mg/L		98
77)	Chrysene	16.01	228	511556	40.12	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.11	149	455210	49.48	mg/L		98
79)	Mirex	16.79	272	74543	26.94	mg/L		100
81)	Di-n-octylphthalate	17.36	149	587459	45.69	mg/L		99
82)	Benzo(b)fluoranthene	18.08	252	331358m	40.44	mg/L		
83)	Benzo(k)fluoranthene	18.13	252	335721	41.43	mg/L		99
84)	Benzo(a)pyrene	18.71	252	272758	41.78	mg/L		99
85)	Indeno(1,2,3-c,d)pyrene	21.41	276	232871	43.29	mg/L	#	90
86)	Dibenz(a,h)anthracene	21.47	278	186752	40.75	mg/L		98
87)	Benzo(g,h,i)perylene	22.16	276	193534	43.44	mg/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\E061025\E061492.D Vial: 7
Acq On : 25 Oct 2006 11:50 am Operator: SC
Sample : LCSD 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:39 2006 Quant Results File: BA061011.RES

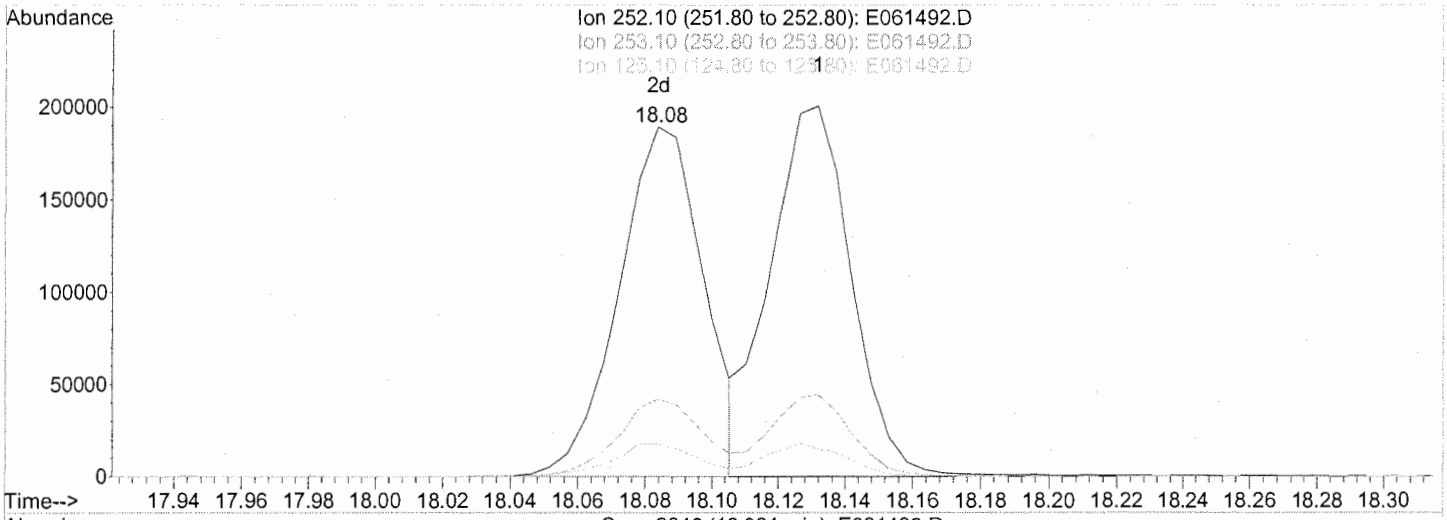
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

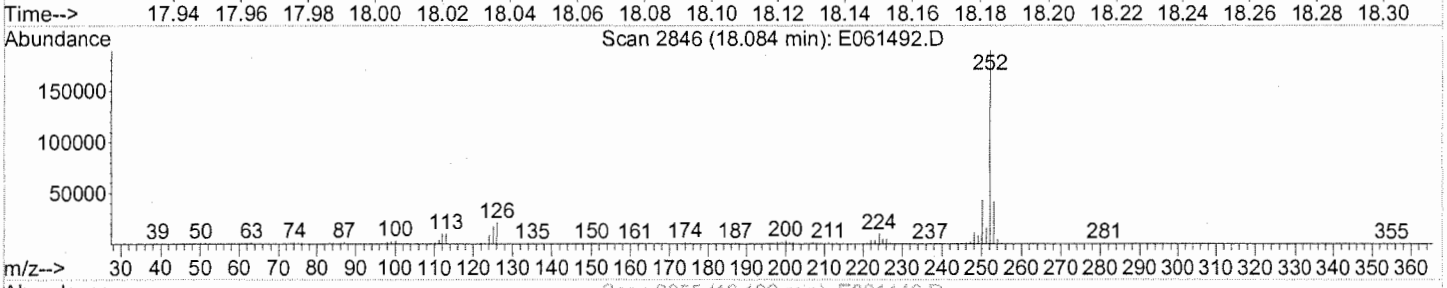


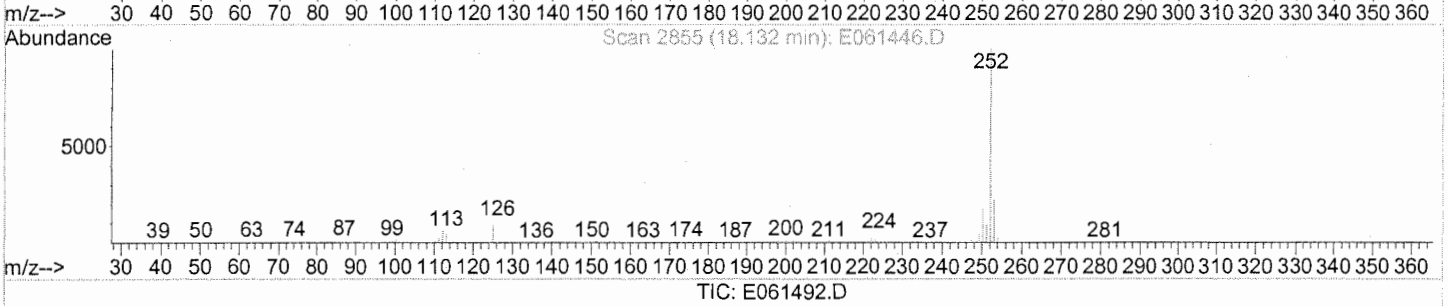
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061025\E061492.D Vial: 7
Acq On : 25 Oct 2006 11:50 am Operator: SC
Sample : LCSD 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:39 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Multiple Level Calibration







TIC: E061492.D

(82) Benzo(b)fluoranthene (T)

18.08min 40.44mg/L m

response 331358

Ion	Exp%	Act%
252.10	100	100
253.10	21.80	22.33
125.10	8.90	8.94
0.00	0.00	0.00

Wtoy Pue 10/26/06

W 15/26/06

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061025\E061492.D Vial: 7
Acq On : 25 Oct 2006 11:50 am Operator: SC
Sample : LCSD 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15 2006 Quant Results File: temp.res

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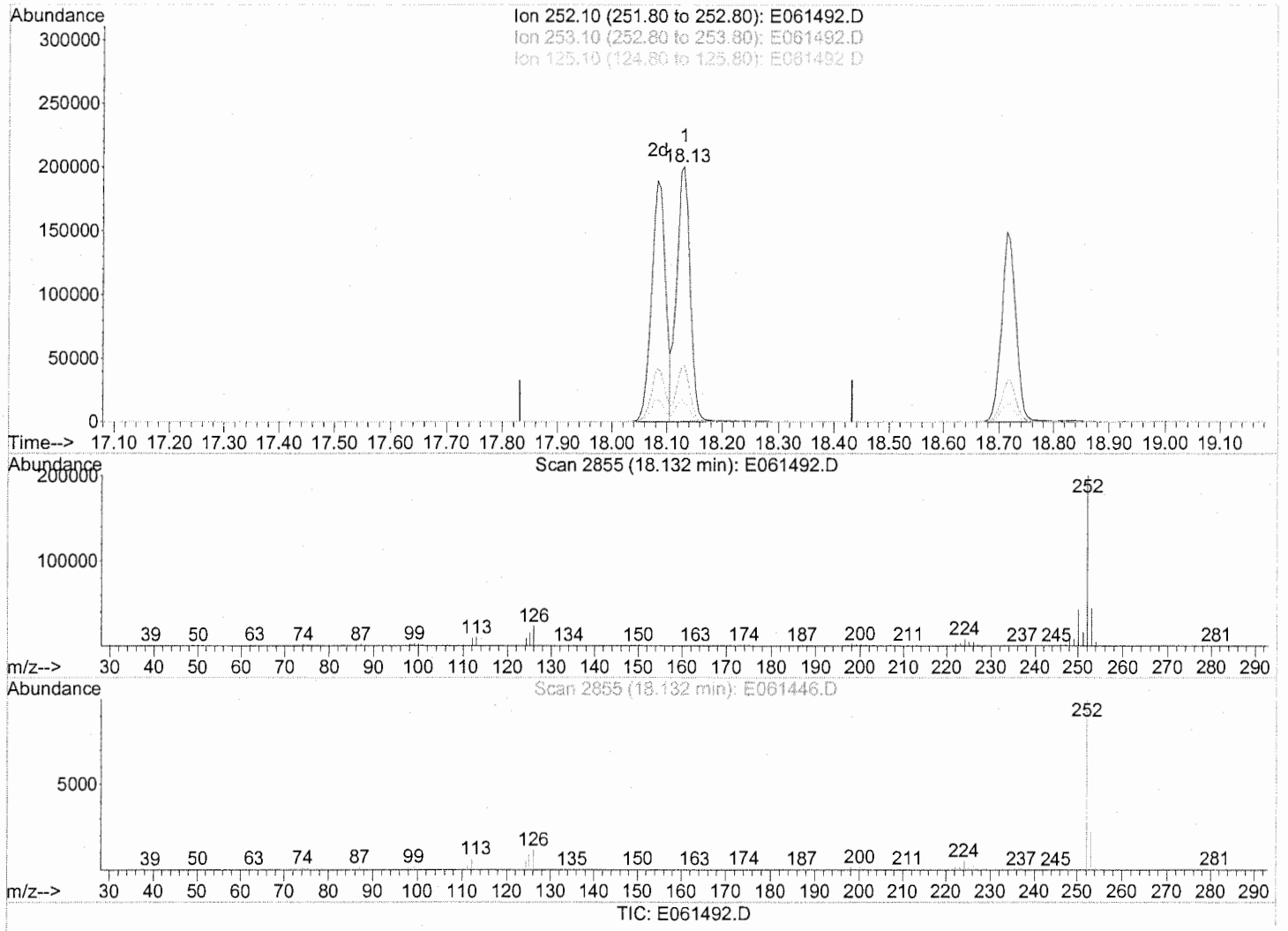

(82) Benzo(b)fluoranthene (T)

18.13min 40.97mg/L

response 335721

Ion	Exp%	Act%
252.10	100	100
253.10	21.80	22.04
125.10	8.90	8.82
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061492.D Vial: 7
Acq On : 25 Oct 2006 11:50 am Operator: SC
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MS Integration Params: rteint.p
Quant Time: Oct 25 12:15:55 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	231903	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	881298	40.00	mg/L	-0.01
37) Acenaphthene-d10	9.75	164	549344	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	961449	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	487775	40.00	mg/L	-0.04
80) Perylene-d12	18.84	264	255565	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	136814	21.97	mg/L	0.00
Spiked Amount 50.000			Recovery = 43.94%			
7) Phenol-d5	5.55	99	151143	18.16	mg/L	-0.01
Spiked Amount 50.000			Recovery = 36.32%			
23) Nitrobenzene-d5	6.67	82	300772	38.98	mg/L	0.00
Spiked Amount 50.000			Recovery = 77.96%			
41) 2-Fluorobiphenyl	8.90	172	649465	39.31	mg/L	-0.02
Spiked Amount 50.000			Recovery = 78.62%			
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Spiked Amount 50.000			Recovery = 81.82%			
73) Terphenyl-d14	13.97	244	572410	44.25	mg/L	-0.03
Spiked Amount 50.000			Recovery = 88.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	134228	35.07	mg/L	97
3) N-Nitrosodimethylamine	3.36	42	155597	34.86	mg/L	90
4) Pyridine	3.38	79	314492	33.11	mg/L	95
5) PGMEA	4.54	43	391803	35.36	mg/L	98
8) Phenol	5.56	94	172248	19.27	mg/L	98
9) Aniline	5.63	93	398423	38.54	mg/L	98
10) Bis(2-chloroethyl)ether	5.68	93	266106	35.60	mg/L	98
11) 2-Chlorophenol	5.76	128	263443	35.77	mg/L	99
12) 1,3-Dichlorobenzene	5.94	146	303591	34.50	mg/L	99
13) 1,4-Dichlorobenzene	5.99	146	313134	34.30	mg/L	99
14) Benzyl alcohol	6.14	108	185000	41.10	mg/L	95
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20) N-Nitrosodi-n-propylamine	6.50	70	218519	40.85	mg/L	94
21) Hexachloroethane	6.60	117	118051	34.51	mg/L	95
24) Nitrobenzene	6.69	77	325713	38.23	mg/L	97
25) Isophorone	6.97	82	576955	40.63	mg/L	99
26) 2-Nitrophenol	7.08	139	158098	38.98	mg/L #	81
27) 2,4-Dimethylphenol	7.11	122	247514	39.68	mg/L	99
28) Benzoic acid	7.19	122	28691	6.75	mg/L	100
29) Bis(2-chloroethoxy)methane	7.23	93	318234	37.31	mg/L	97
30) 2,4-Dichlorophenol	7.37	162	241789	37.86	mg/L	98
31) 1,2,4-Trichlorobenzene	7.48	180	276437	36.14	mg/L	100
32) Naphthalene	7.57	128	799387	36.57	mg/L	99
33) 4-Chloroaniline	7.64	127	316701	41.43	mg/L	99
34) Hexachlorobutadiene	7.78	225	177338	37.54	mg/L	99

(#) = qualifier out of range (m) = manual integration

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Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15:55 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

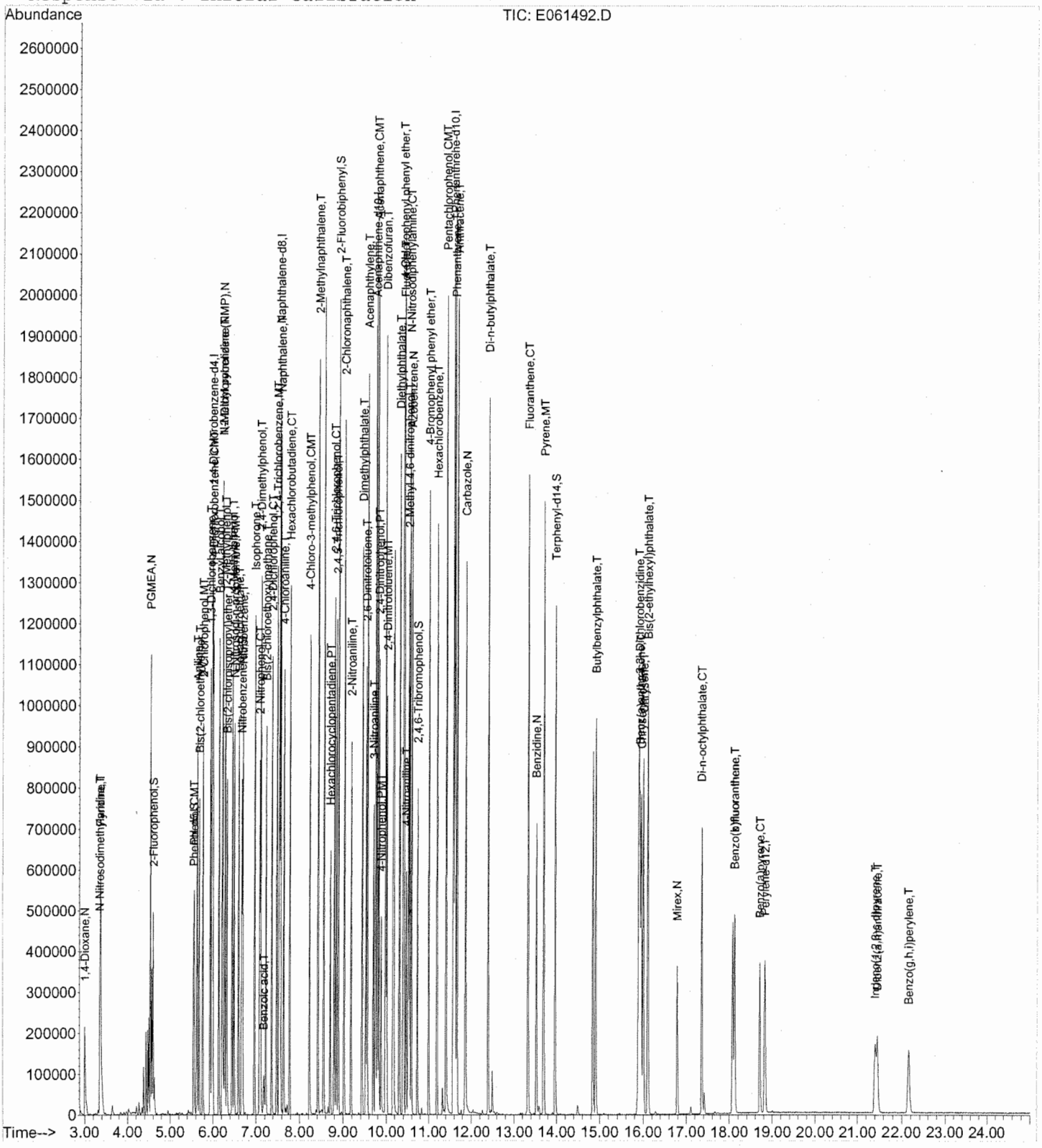
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	4-Chloro-3-methylphenol	8.23	107	253296	40.45	mg/L		99
36)	2-Methylnaphthalene	8.42	142	581959	37.56	mg/L		100
38)	Hexachlorocyclopentadiene	8.70	237	121280	25.65	mg/L		98
39)	2,4,6-Trichlorophenol	8.80	196	201591	41.04	mg/L		99
40)	2,4,5-Trichlorophenol	8.85	196	216769	40.73	mg/L		97
42)	2-Chloronaphthalene	9.03	162	546741	38.34	mg/L		99
43)	2-Nitroaniline	9.18	65	172189	40.37	mg/L		98
44)	Dimethylphthalate	9.44	163	664778	40.36	mg/L		99
45)	Acenaphthylene	9.56	152	874081	38.51	mg/L		100
46)	2,6-Dinitrotoluene	9.53	165	157359	41.95	mg/L		100
47)	3-Nitroaniline	9.70	138	133444	41.24	mg/L		97
48)	Acenaphthene	9.79	154	529206	38.04	mg/L		99
49)	2,4-Dinitrophenol	9.82	184	177810	64.21	mg/L		95
50)	4-Nitrophenol	9.88	109	74191	29.98	mg/L		98
51)	Dibenzofuran	9.98	168	818031	38.66	mg/L		99
52)	2,4-Dinitrotoluene	10.01	165	203325	41.37	mg/L		99
53)	Fluorene	10.41	166	670095	39.36	mg/L		99
54)	Diethylphthalate	10.31	149	691693	41.61	mg/L		99
55)	4-Chlorophenyl phenyl ethe	10.40	204	349278	39.89	mg/L		97
56)	4-Nitroaniline	10.47	138	115981	39.90	mg/L		98
58)	2-Methyl-4,6-dinitrophenol	10.52	198	249936	71.61	mg/L		95
59)	N-Nitrosodiphenylamine	10.55	169	485815	39.04	mg/L		92
60)	Azobenzene	10.59	77	670120	36.66	mg/L		97
62)	4-Bromophenyl phenyl ether	11.00	248	205186	38.08	mg/L		97
63)	Hexachlorobenzene	11.20	284	206912	37.10	mg/L		100
64)	Pentachlorophenol	11.42	266	265757	69.38	mg/L		100
65)	Phenanthrene	11.61	178	971715	35.45	mg/L		100
66)	Anthracene	11.67	178	970235	36.77	mg/L		99
67)	Carbazole	11.87	167	675949	36.75	mg/L		99
68)	Di-n-butylphthalate	12.39	149	1060315	39.74	mg/L		99
69)	Fluoranthene	13.33	202	942721	38.55	mg/L		99
71)	Benzidine	13.53	184	401588	72.70	mg/L		100
72)	Pyrene	13.71	202	910068	43.97	mg/L		100
74)	Butylbenzylphthalate	14.92	149	349647	46.37	mg/L		100
75)	3,3'-Dichlorobenzidine	15.90	252	312612	77.63	mg/L		99
76)	Benz(a)anthracene	15.93	228	551618	40.46	mg/L		98
77)	Chrysene	16.01	228	511556	40.12	mg/L		100
78)	Bis(2-ethylhexyl)phthalate	16.11	149	455210	49.48	mg/L		98
79)	Mirex	16.79	272	74543	26.94	mg/L		100
81)	Di-n-octylphthalate	17.36	149	587459	45.69	mg/L		99
82)	Benzo(b)fluoranthene	18.13	252	335721	40.97	mg/L		100
83)	Benzo(k)fluoranthene	18.13	252	335721	41.43	mg/L		99
84)	Benzo(a)pyrene	18.71	252	272758	41.78	mg/L		99
85)	Indeno(1,2,3-c,d)pyrene	21.41	276	232871	43.29	mg/L	#	90
86)	Dibenz(a,h)anthracene	21.47	278	186752	40.75	mg/L		98
87)	Benzo(g,h,i)perylene	22.16	276	193534	43.44	mg/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061492.D Vial: 7
Acq On : 25 Oct 2006 11:50 am Operator: SC
Sample : LCSD 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 12:15 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



RAW DATA

Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	D0601625
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75174	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061494.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 12:54	**Quant Date:**	10/25/2006 13:25	**Vial:**	9
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-002			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	0.00?	152	205024	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	789941	40.00	OK
3	Acenaphthene-d10	9.75	0.00?	164	488092	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	785450	40.00	OK
5	Chrysene-d12	15.95	-0.01?	240	423259	40.00	OK
6	Perylene-d12	18.84	0.00?	264	275151	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.61	0.00	0.00	112	129775	23.57	47	23-115	OK	
1	Phenol-d5	5.55	0.00	0.00	99	126605	17.21	34	23-121	OK	
2	Nitrobenzene-d5	6.67	0.00	0.00	82	294162	42.53	85	42-122	OK	
3	2-Fluorobiphenyl	8.90	0.01	0.00	172	625492	42.61	85	47-110	OK	
4	2,4,6-Tribromophenol	10.73	-0.01	0.00	330	82737	46.43	93	31-112	OK	
5	Terphenyl-d14	13.97	0.00	0.00	244	423690	37.75	76	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.02	0.02	0.00	88	4104249	1,213	1200	E	NR
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061494.D		**Instrument:** MSE
Acqu Date:	10/25/2006 12:54	**Quant Date:** 10/25/2006 13:25	**Vial:** 9
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0601625-002		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0d		0.83	U	
2	Benzoic acid				122	0d		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.30	-0.01	0.00	149	6513	0.4400	0.43	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0d		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte deteeted above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061494.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 12:54	**Quant Date:**	10/25/2006 13:25	**Vial:**	9
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-002			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.39		0.00	149	5789	0.2700	0.26	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0**d**		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate				149	0**d**		0.30	U	
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene	18.08	-0.01	0.00	252	2537**m**	0.2900	0.42	U	
6	Benzo(k)fluoranthene	18.13	-0.01	0.00	252	2898	0.3300	0.32	J	
6	Benzo(a)pyrene				252	0**d**		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1020 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually delcted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Resnlt >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061494.D Vial: 9
Acq On : 25 Oct 2006 12:54 pm Operator: SC
Sample : D0601625-002 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:21:05 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/26/06

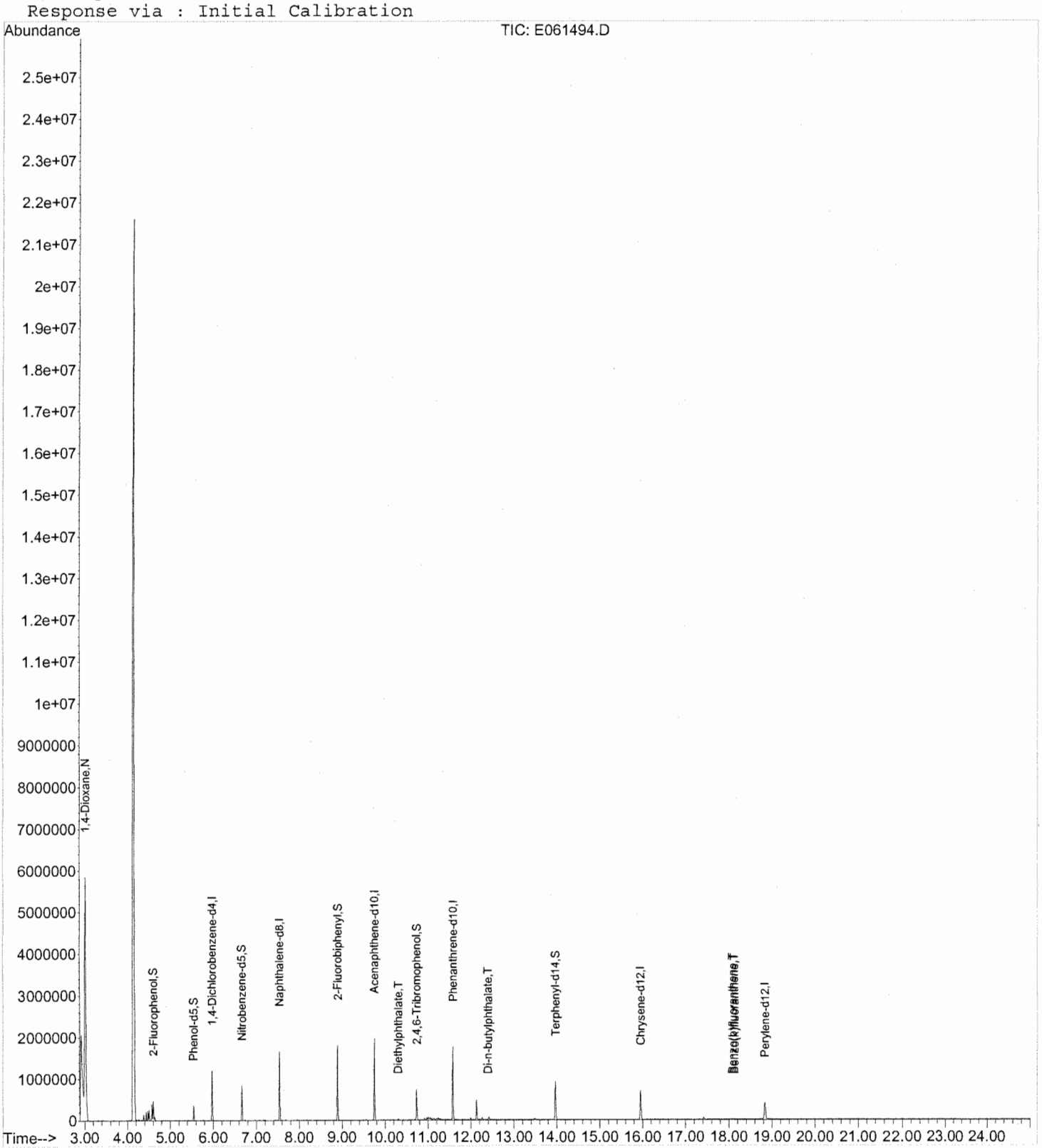
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	205024	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	789941	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	488092	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	785450	40.00	mg/L	-0.02
70) Chrysene-d12	15.95	240	423259	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	275151	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	129775	23.57	mg/L	0.00
Spiked Amount 50.000			Recovery = 47.14%			
7) Phenol-d5	5.55	99	126605	17.21	mg/L	-0.01
Spiked Amount 50.000			Recovery = 34.42%			
23) Nitrobenzene-d5	6.67	82	294162	42.53	mg/L	-0.01
Spiked Amount 50.000			Recovery = 85.06%			
41) 2-Fluorobiphenyl	8.90	172	625492	42.61	mg/L	-0.02
Spiked Amount 50.000			Recovery = 85.22%			
61) 2,4,6-Tribromophenol	10.73	330	82737	46.43	mg/L	-0.02
Spiked Amount 50.000			Recovery = 92.86%			
73) Terphenyl-d14	13.97	244	423690	37.75	mg/L	-0.03
Spiked Amount 50.000			Recovery = 75.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	4104249	1212.84	mg/L	96
54) Diethylphthalate	10.30	149	6513	0.44	mg/L	98
68) Di-n-butylphthalate	12.39	149	5789	0.27	mg/L #	95
82) Benzo(b)fluoranthene	18.08	252	2537m	0.29	mg/L	
83) Benzo(k)fluoranthene	18.13	252	2898	0.33	mg/L #	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061494.D BA061011.M Wed Oct 25 13:25:37 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061494.D Vial: 9
Acq On : 25 Oct 2006 12:54 pm Operator: SC
Sample : D0601625-002 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:25 2006 Quant Results File: BA061011.RES

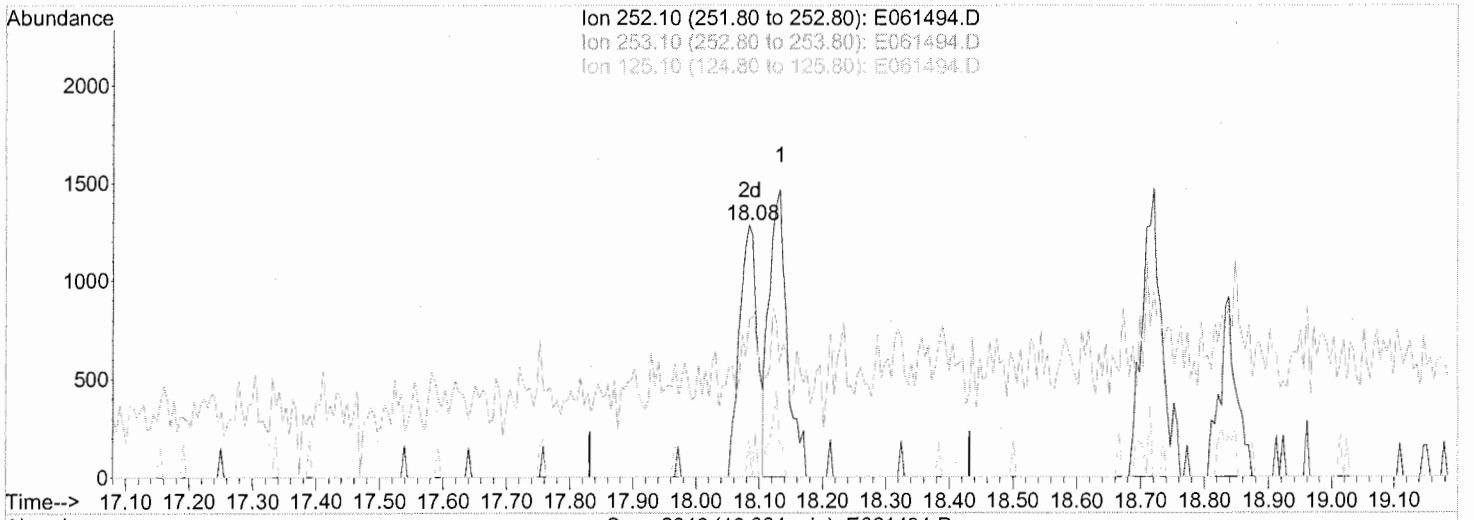
Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

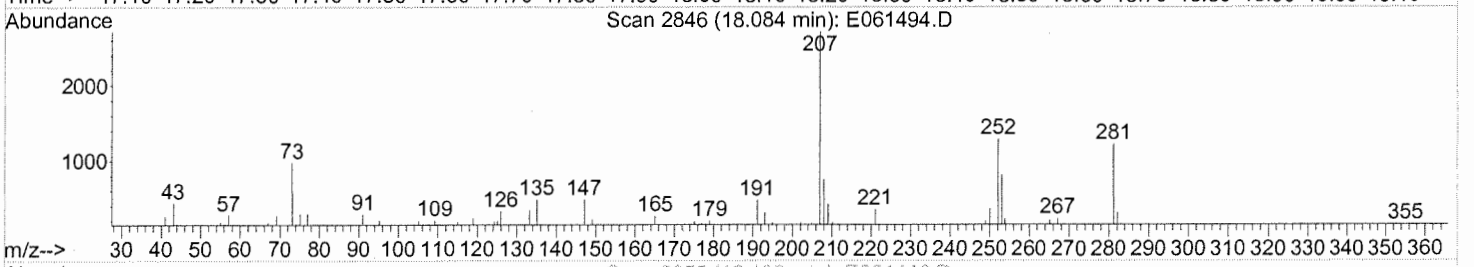


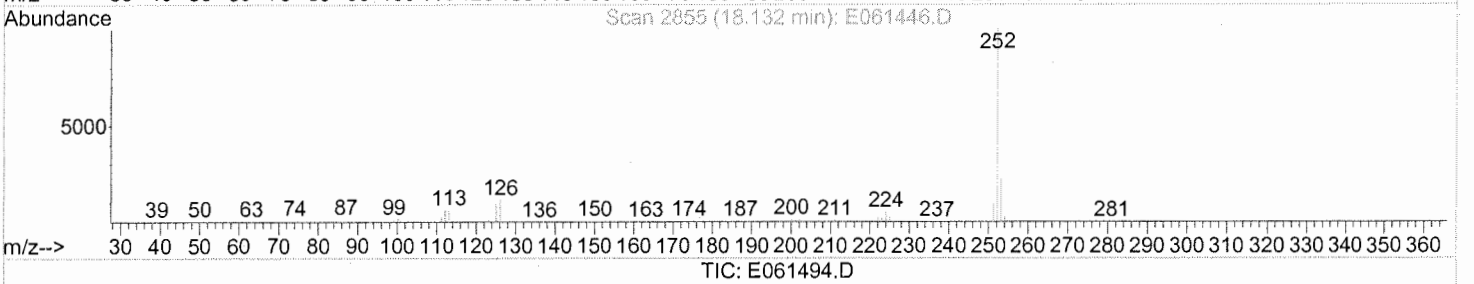
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061025\E061494.D Vial: 9
Acq On : 25 Oct 2006 12:54 pm Operator: SC
Sample : D0601625-002 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:25 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Multiple Level Calibration







TIC: E061494.D

(82) Benzo(b)fluoranthene (T)

18.08min 0.29mg/L m

response 2537

Ion	Exp%	Act%
252.10	100	100
253.10	21.80	22.47
125.10	8.90	17.26#
0.00	0.00	0.00

Wrong Peak
10/26/06

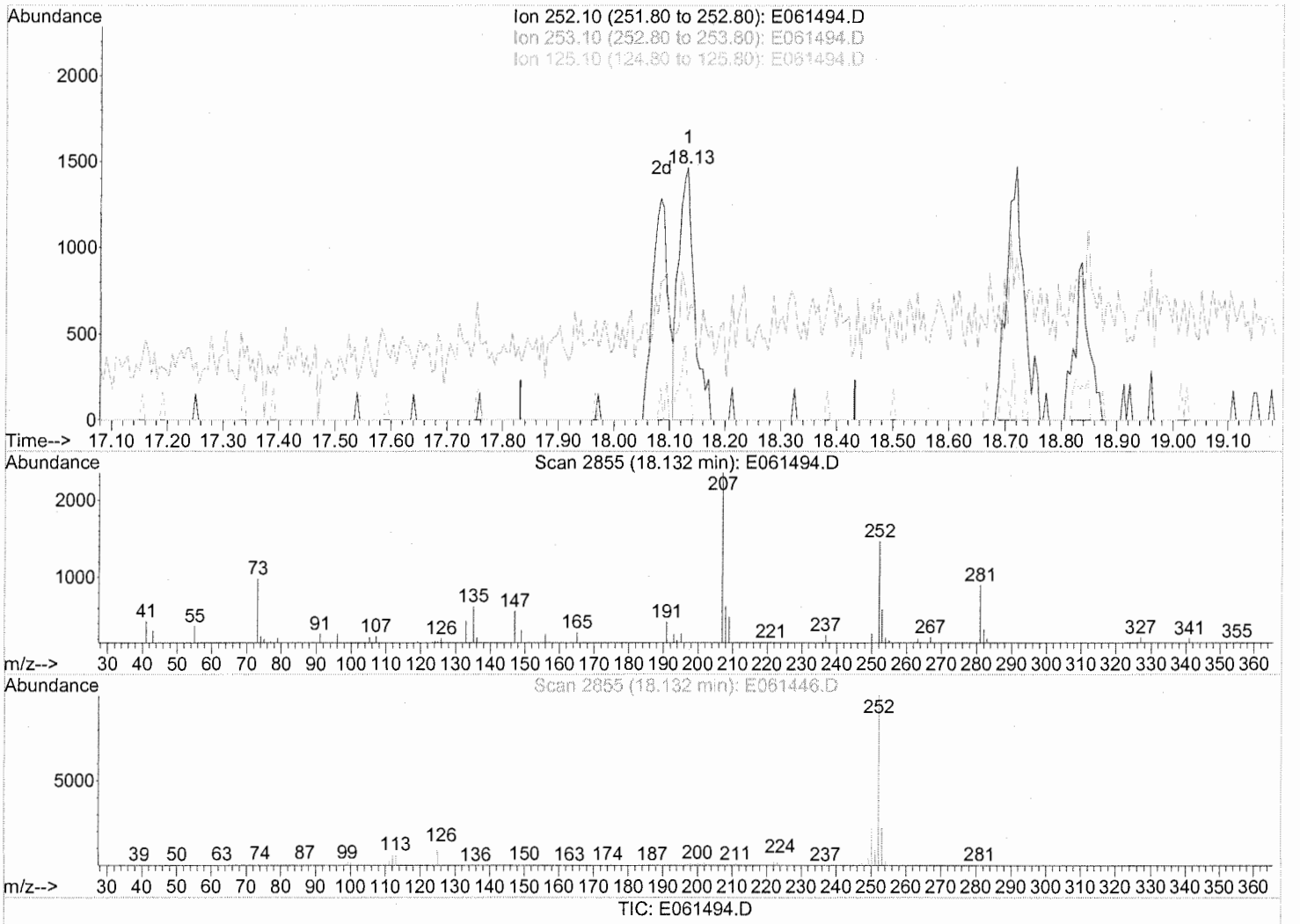
10/26/06

E061494.D BA061011.M Wed Oct 25 13:25:08 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061025\E061494.D Vial: 9
Acq On : 25 Oct 2006 12:54 pm Operator: SC
Sample : D0601625-002 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:24 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Multiple Level Calibration



TIC: E061494.D

(82) Benzo(b)fluoranthene (T)

18.13min 0.33mg/L

response 2898

Ion	Exp%	Act%
252.10	100	100
253.10	21.80	19.67
125.10	8.90	15.11#
0.00	0.00	0.00

E061494.D BA061011.M Wed Oct 25 13:24:57 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061494.D Vial: 9
Acq On : 25 Oct 2006 12:54 pm Operator: SC
Sample : D0601625-002 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:21:05 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

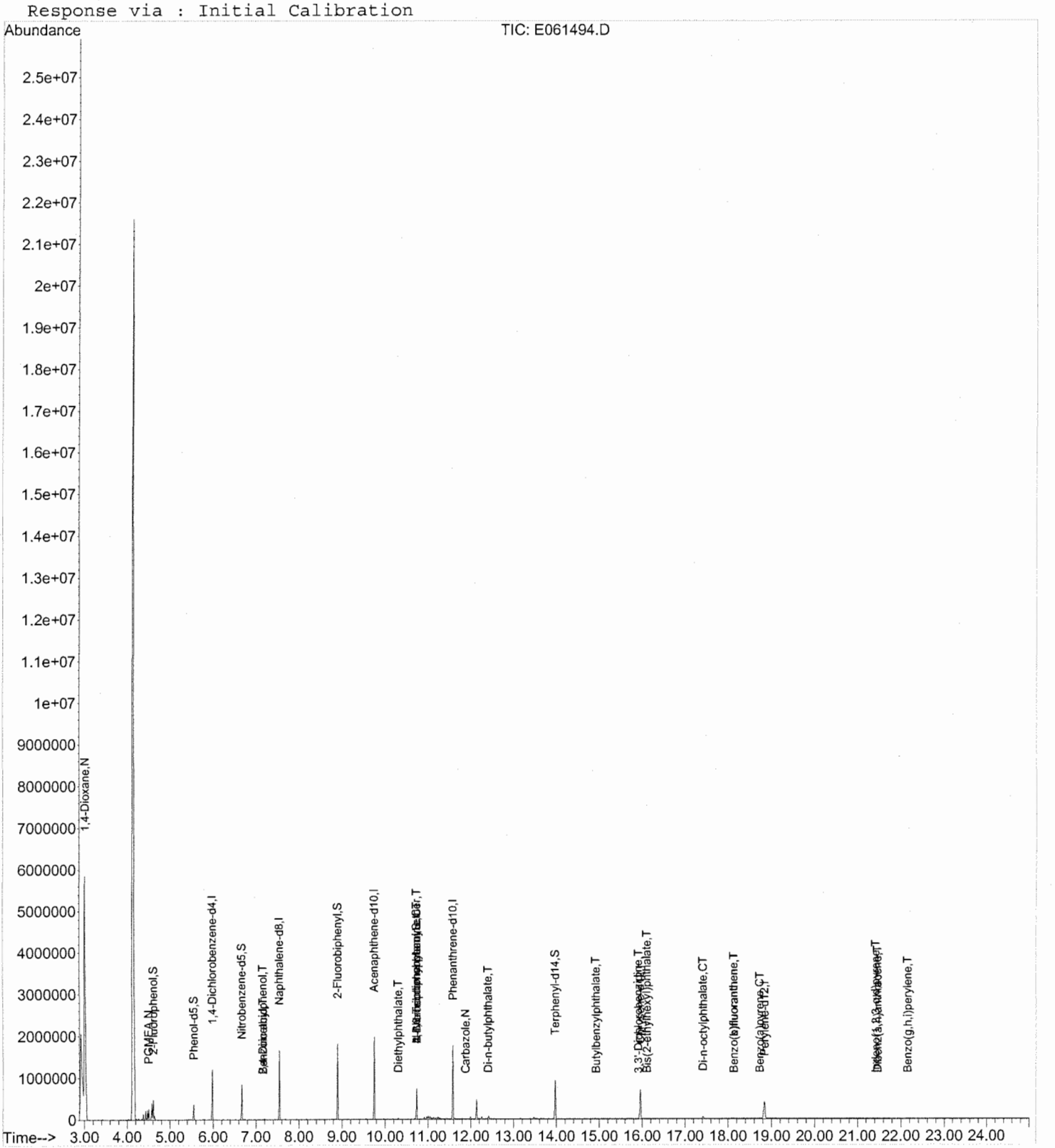
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	205024	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	789941	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	488092	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	785450	40.00	mg/L	-0.02
70) Chrysene-d12	15.95	240	423259	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	275151	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	129775	23.57	mg/L	0.00
Spiked Amount 50.000			Recovery = 47.14%			
7) Phenol-d5	5.55	99	126605	17.21	mg/L	-0.01
Spiked Amount 50.000			Recovery = 34.42%			
23) Nitrobenzene-d5	6.67	82	294162	42.53	mg/L	-0.01
Spiked Amount 50.000			Recovery = 85.06%			
41) 2-Fluorobiphenyl	8.90	172	625492	42.61	mg/L	-0.02
Spiked Amount 50.000			Recovery = 85.22%			
61) 2,4,6-Tribromophenol	10.73	330	82737	46.43	mg/L	-0.02
Spiked Amount 50.000			Recovery = 92.86%			
73) Terphenyl-d14	13.97	244	423690	37.75	mg/L	-0.03
Spiked Amount 50.000			Recovery = 75.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	4104249	1212.84	mg/L	96
5) PGMEA	4.50	43	6719	0.69	mg/L #	25
27) 2,4-Dimethylphenol	7.16	122	1163	0.21	mg/L #	1
28) Benzoic acid	7.16	122	1163	0.31	mg/L	86
54) Diethylphthalate	10.30	149	6513	0.44	mg/L	98
59) N-Nitrosodiphenylamine	10.73	169	3615	0.36	mg/L #	50
62) 4-Bromophenyl phenyl ether	10.73	248	5467	1.24	mg/L #	1
67) Carbazole	11.88	167	516	4.57	mg/L #	30
68) Di-n-butylphthalate	12.39	149	5789	0.27	mg/L #	95
74) Butylbenzylphthalate	14.92	149	1386	0.21	mg/L #	70
75) 3,3'-Dichlorobenzidine	15.90	252	130	7.23	mg/L #	19
78) Bis(2-ethylhexyl)phthalate	16.11	149	3445	0.43	mg/L #	94
81) Di-n-octylphthalate	17.42	149	7489	0.54	mg/L #	70
82) Benzo(b)fluoranthene	18.13	252	2898	0.33	mg/L #	92
83) Benzo(k)fluoranthene	18.13	252	2898	0.33	mg/L #	89
84) Benzo(a)pyrene	18.72	252	2943	0.42	mg/L #	78
85) Indeno(1,2,3-c,d)pyrene	21.42	276	2421	0.42	mg/L	98
86) Dibenz(a,h)anthracene	21.47	278	2426	0.49	mg/L #	67
87) Benzo(g,h,i)perylene	22.15	276	2531	0.53	mg/L #	74

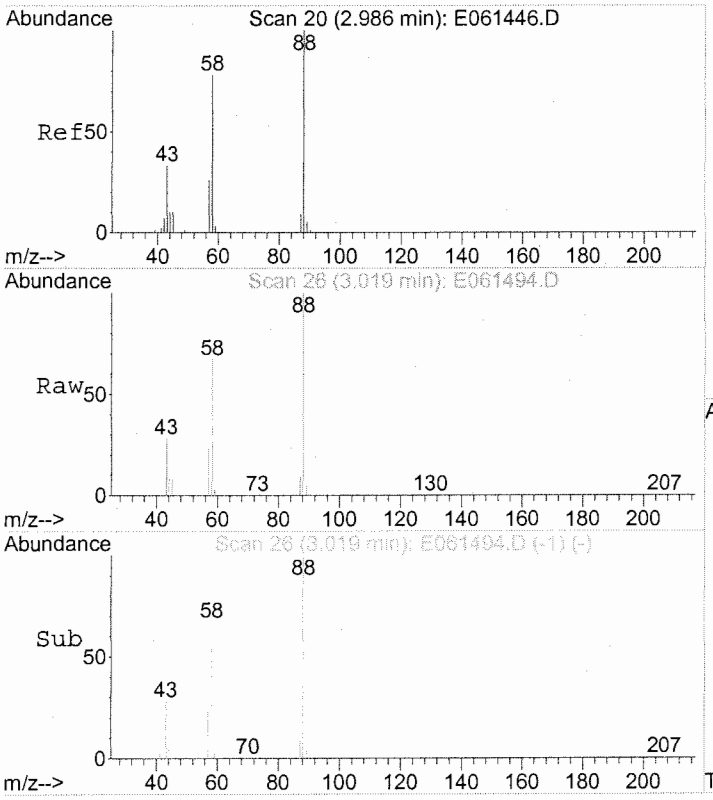
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061494.D Vial: 9
Acq On : 25 Oct 2006 12:54 pm Operator: SC
Sample : D0601625-002 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:21 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

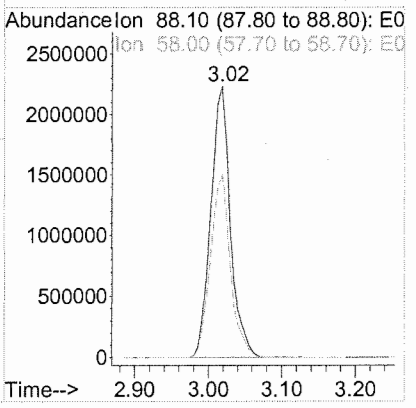


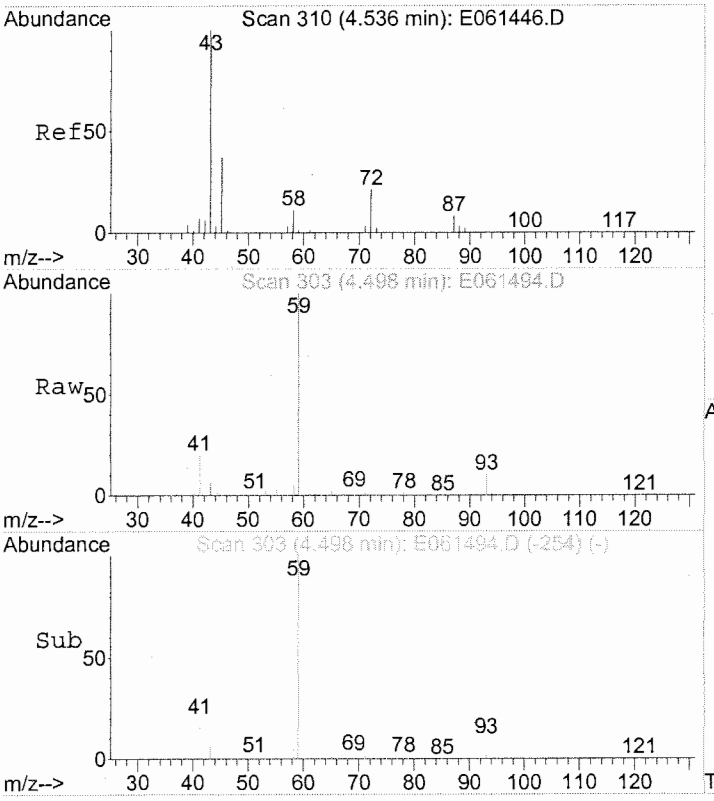


#2
1,4-Dioxane
Concen: 1212.84 mg/L
RT: 3.02 min Scan# 26
Delta R.T. 0.03 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion: 88 Resp: 4104249

Ion	Ratio	Lower	Upper
88	100		
58	68.6	57.6	86.4

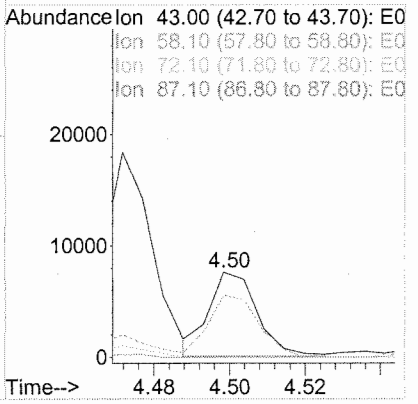


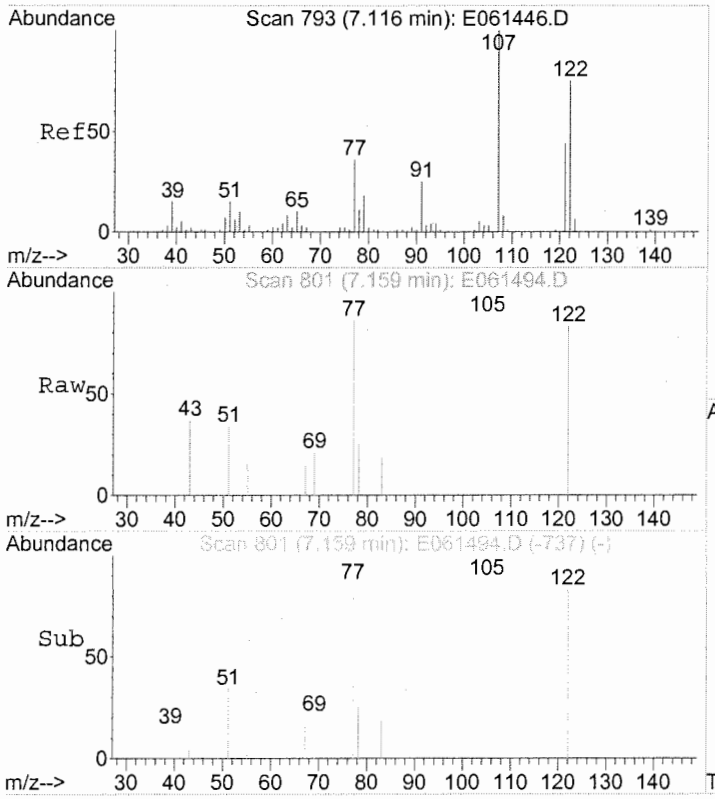


#5
PGMEA
Concen: 0.69 mg/L
RT: 4.50 min Scan# 303
Delta R.T. -0.04 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion: 43 Resp: 6719

Ion	Ratio	Lower	Upper
43	100		
58	76.1	9.4	14.2#
72	0.0	16.8	25.2#
87	0.0	6.6	10.0#

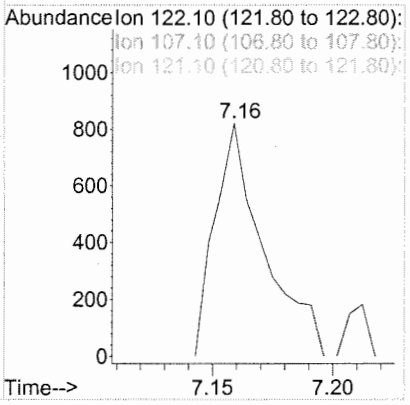


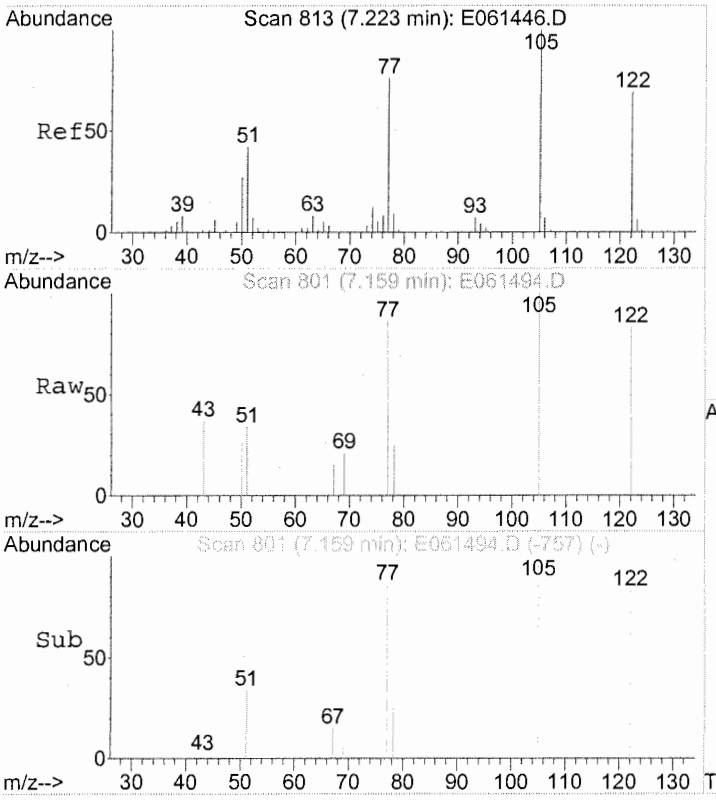


#27
2,4-Dimethylphenol
Concen: 0.21 mg/L
RT: 7.16 min Scan# 801
Delta R.T. 0.04 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:122 Resp: 1163

Ion	Ratio	Lower	Upper
122	100		
107	0.0	97.4	146.0#
121	0.0	47.0	70.4#

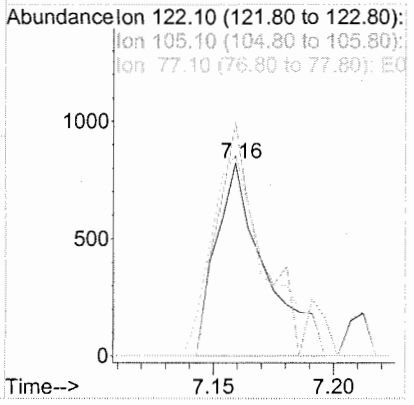


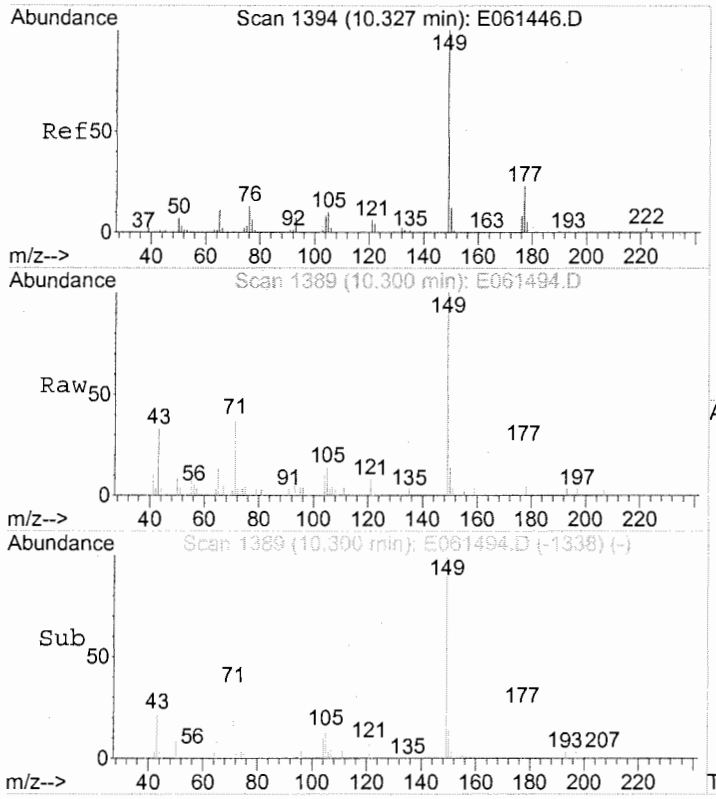


#28
Benzoic acid
Concen: 0.31 mg/L
RT: 7.16 min Scan# 801
Delta R.T. -0.06 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:122 Resp: 1163

Ion	Ratio	Lower	Upper
122	100		
105	116.9	110.7	166.1
77	116.3	84.6	126.8

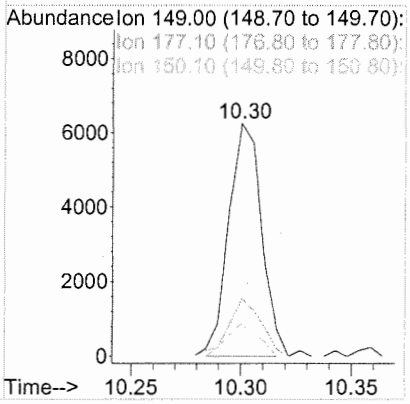


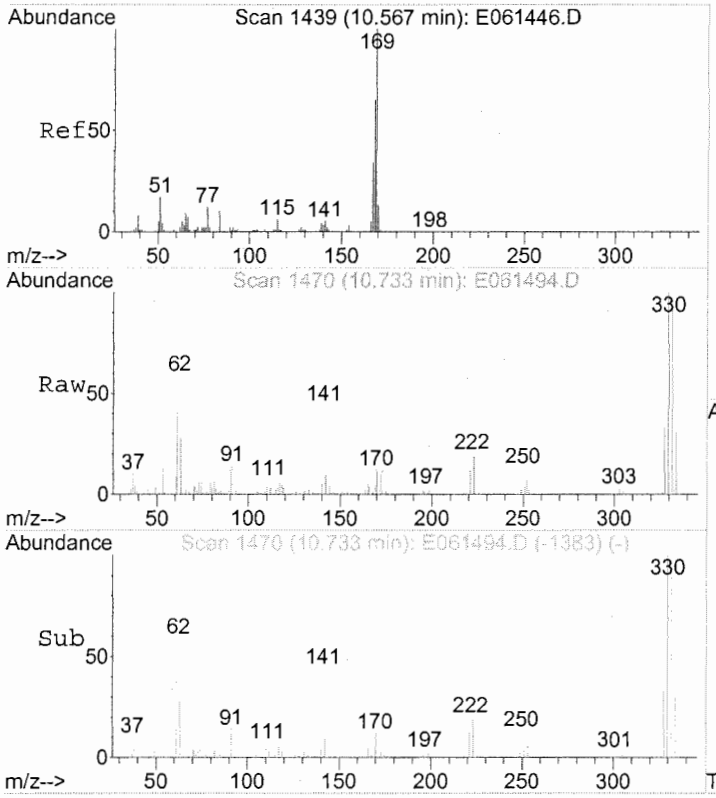


#54
Diethylphthalate
Concen: 0.44 mg/L
RT: 10.30 min Scan# 1389
Delta R.T. -0.03 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:149 Resp: 6513

Ion	Ratio	Lower	Upper
149	100		
177	24.6	19.0	28.4
150	13.5	9.9	14.9

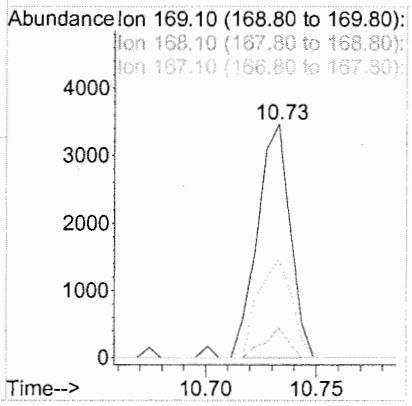


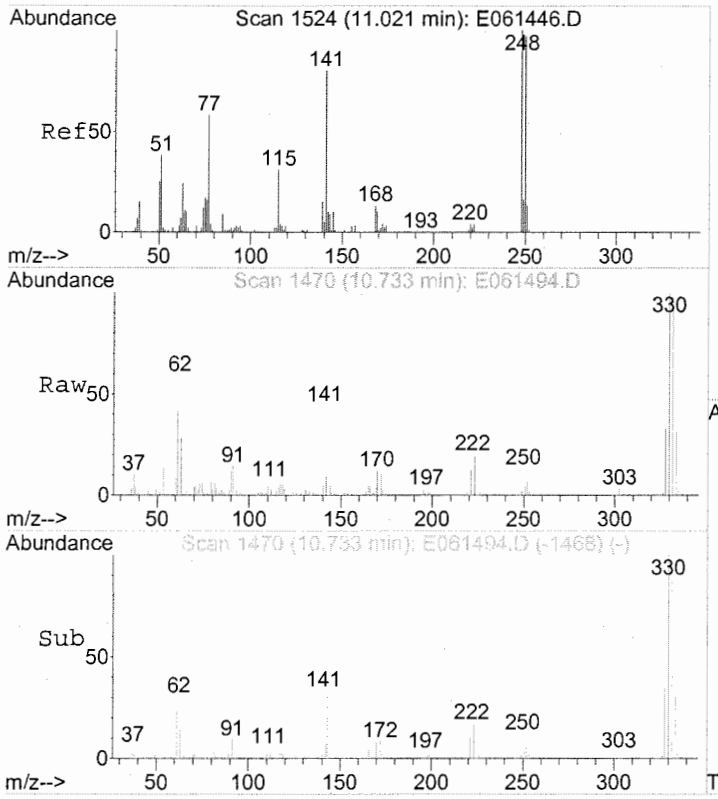


#59
N-Nitrosodiphenylamine
Concen: 0.36 mg/L
RT: 10.73 min Scan# 1470
Delta R.T. 0.17 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:169 Resp: 3615

Ion	Ratio	Lower	Upper
169	100		
168	9.3	51.3	76.9#
167	42.5	27.7	41.5#

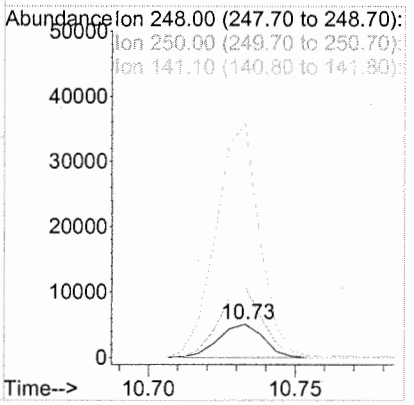


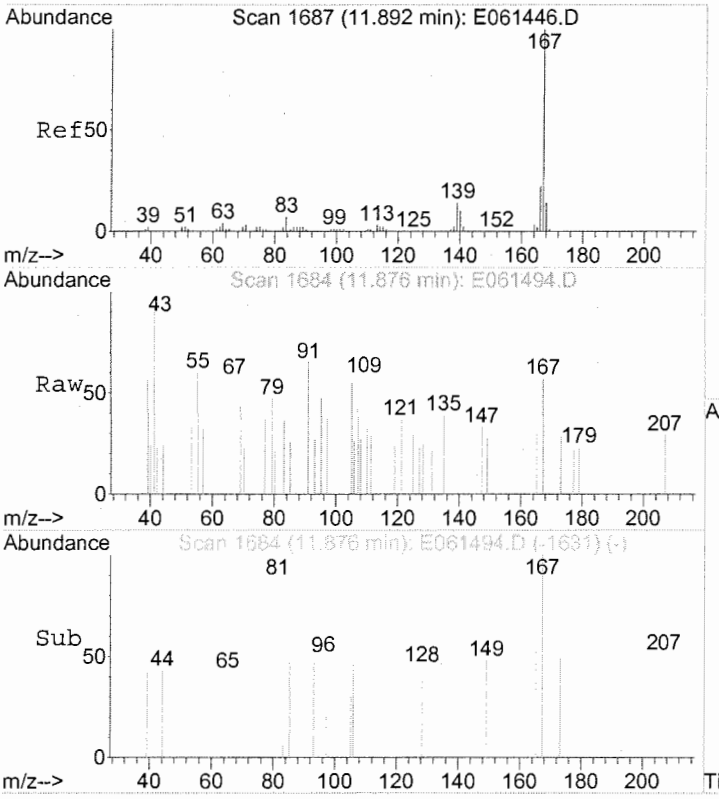


#62
4-Bromophenyl phenyl ether
Concen: 1.24 mg/L
RT: 10.73 min Scan# 1470
Delta R.T. -0.29 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:248 Resp: 5467

Ion	Ratio	Lower	Upper
248	100		
250	199.3	77.0	115.6#
141	675.9	55.9	83.9#

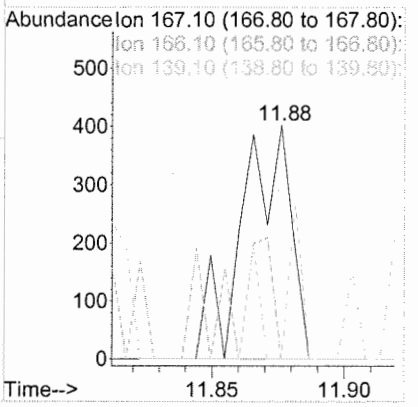


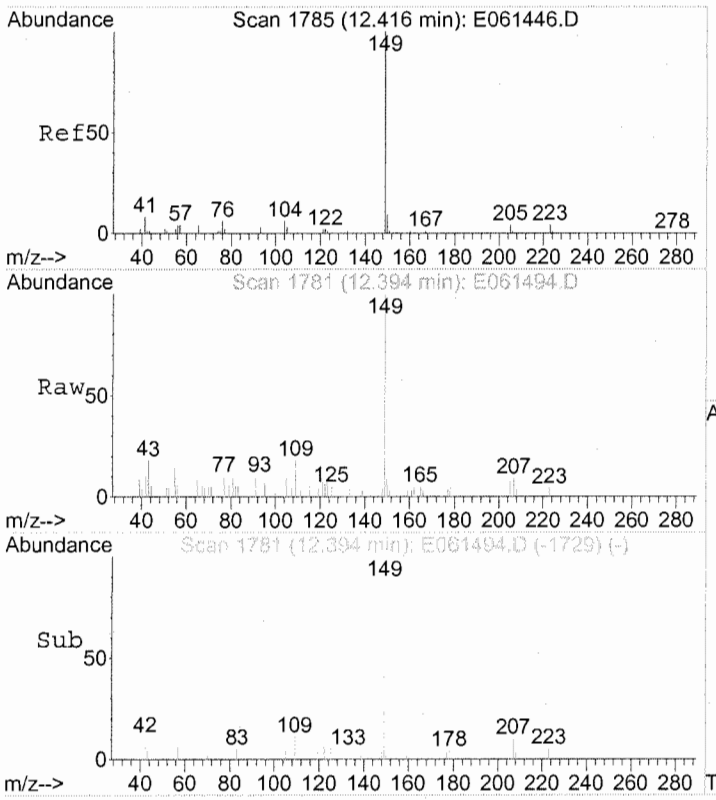


#67
Carbazole
Concen: 4.57 mg/L
RT: 11.88 min Scan# 1684
Delta R.T. -0.02 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:167 Resp: 516

Ion	Ratio	Lower	Upper
167	100		
166	46.5	17.0	25.4#
139	51.4	10.3	15.5#

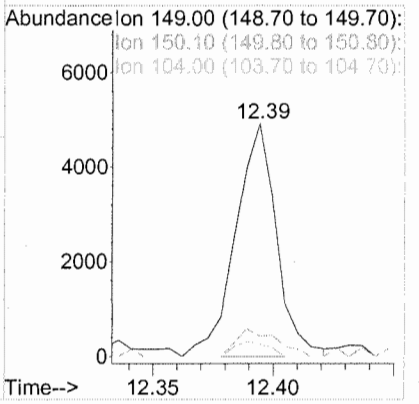


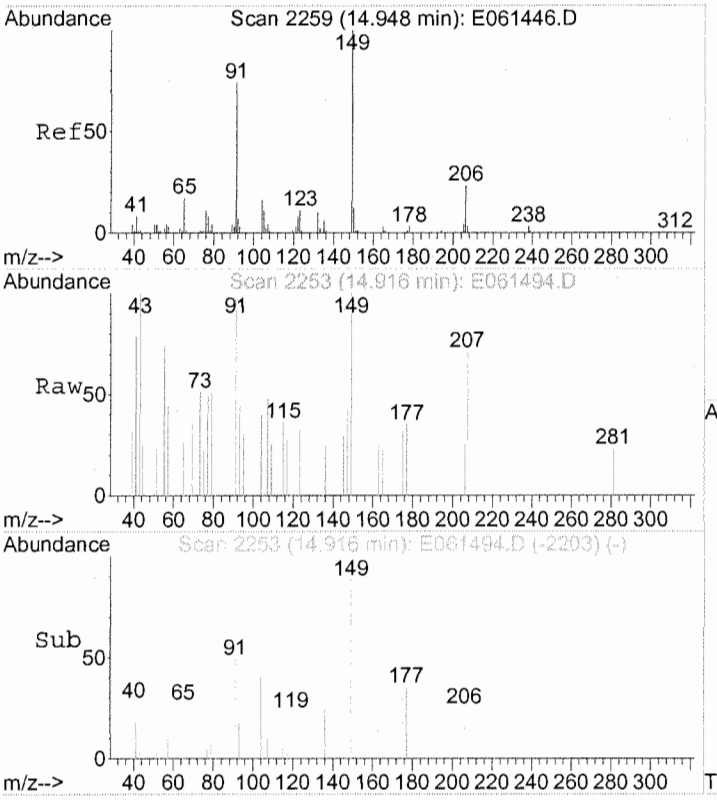


#68
Di-n-butylphthalate
Concen: 0.27 mg/L
RT: 12.39 min Scan# 1781
Delta R.T. -0.02 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:149 Resp: 5789

Ion	Ratio	Lower	Upper
149	100		
150	11.6	7.2	10.8#
104	5.4	4.6	6.8

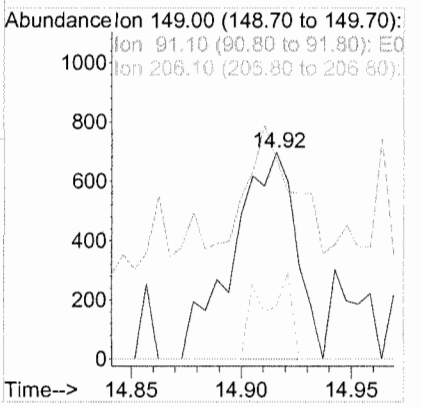


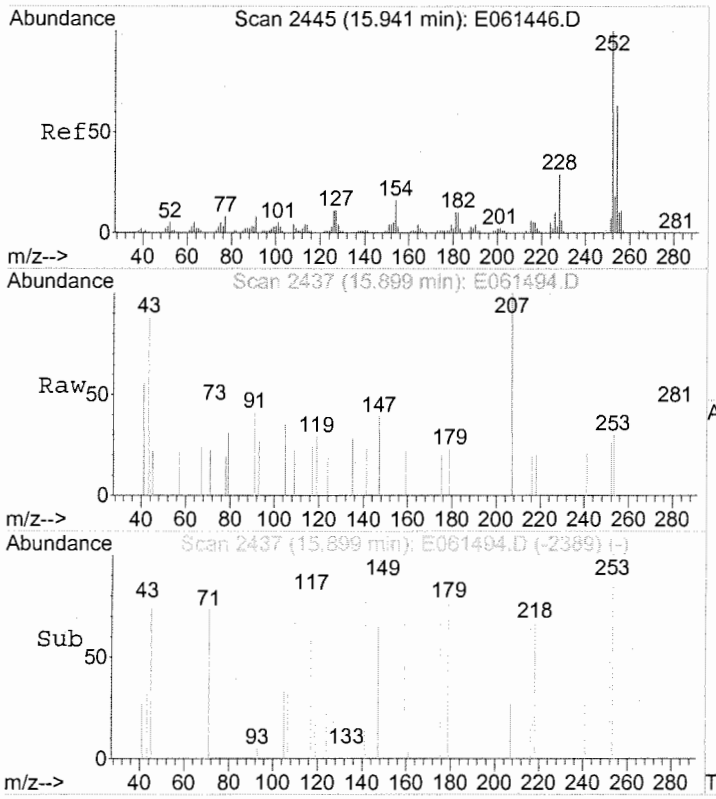


#74
Butylbenzylphthalate
Concen: 0.21 mg/L
RT: 14.92 min Scan# 2253
Delta R.T. -0.03 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:149 Resp: 1386

Ion	Ratio	Lower	Upper
149	100		
91	39.3	55.8	83.8#
206	20.3	18.9	28.3

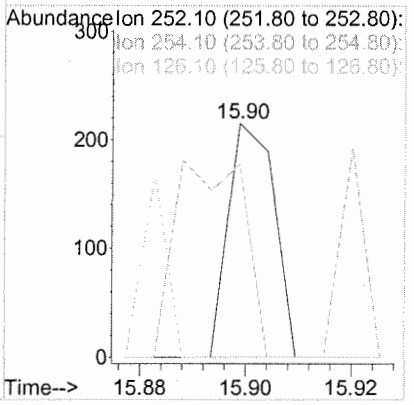


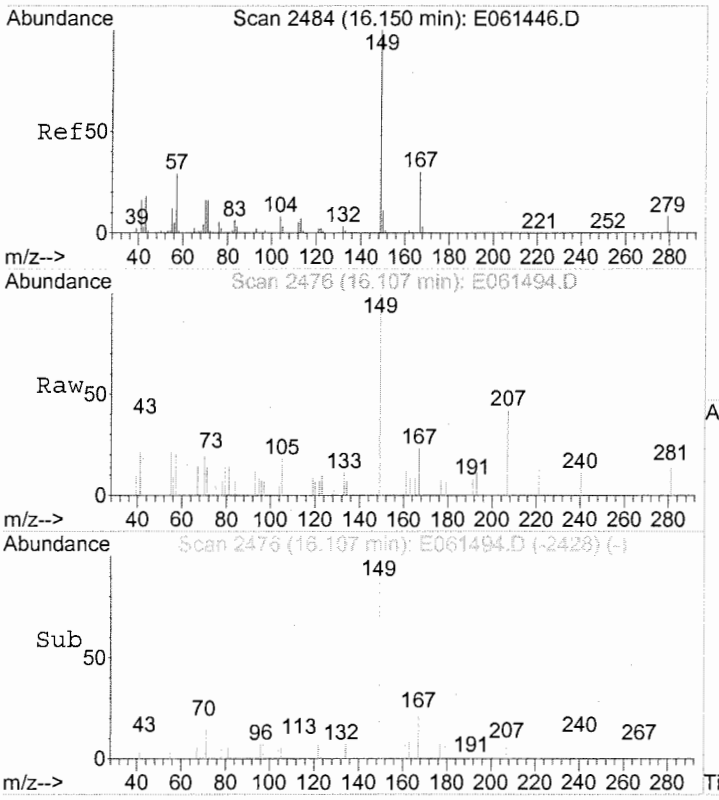


#75
3,3'-Dichlorobenzidine
Concen: 7.23 mg/L
RT: 15.90 min Scan# 2437
Delta R.T. -0.04 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:252 Resp: 130

Ion	Ratio	Lower	Upper
252	100		
254	126.2	51.0	76.4#
126	41.5	8.0	12.0#

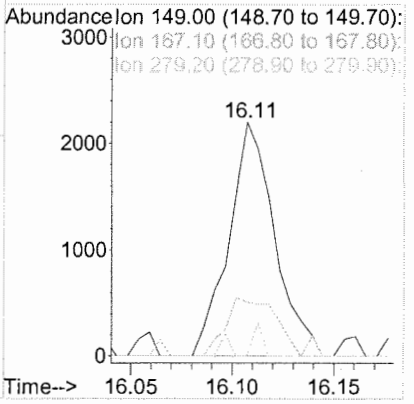


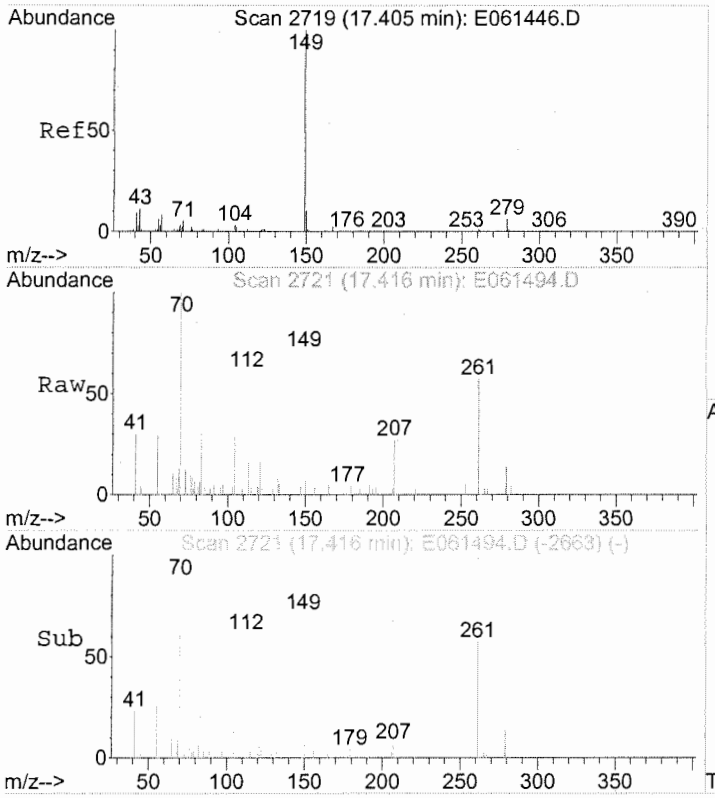


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.43 mg/L
RT: 16.11 min Scan# 2476
Delta R.T. -0.04 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:149 Resp: 3445

Ion	Ratio	Lower	Upper
149	100		
167	27.2	23.5	35.3
279	3.0	6.1	9.1#

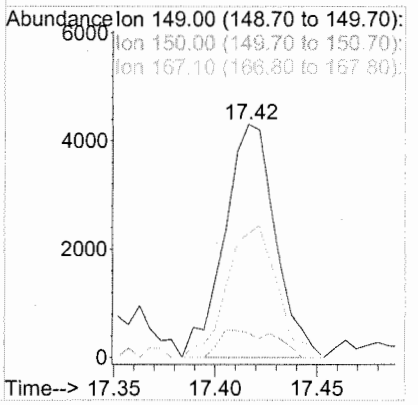


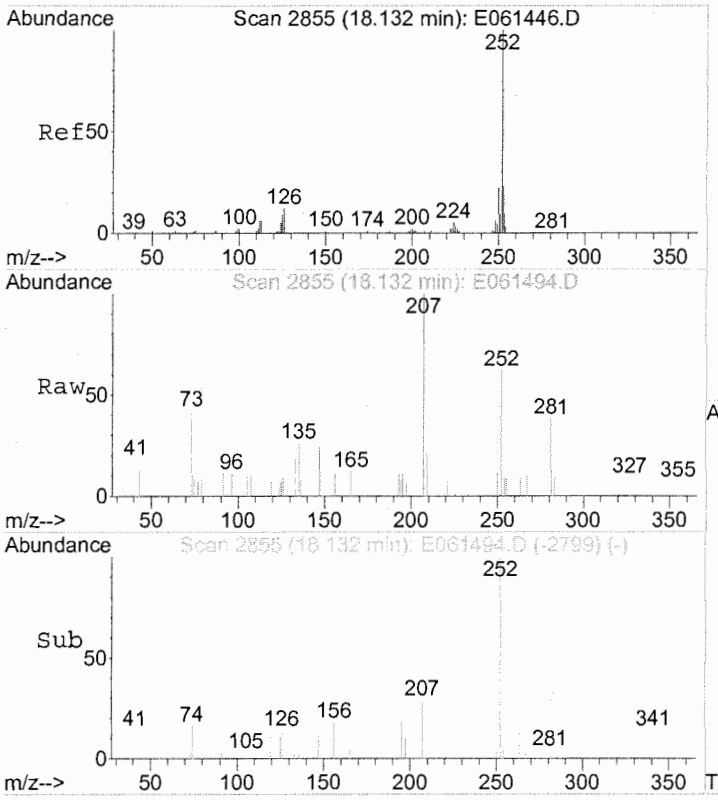


#81
Di-n-octylphthalate
Concen: 0.54 mg/L
RT: 17.42 min Scan# 2721
Delta R.T. 0.01 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:149 Resp: 7489

Ion	Ratio	Lower	Upper
149	100		
150	12.8	7.7	11.5#
167	55.5	1.4	2.0#

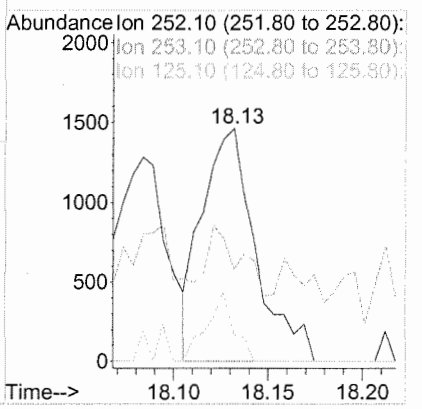


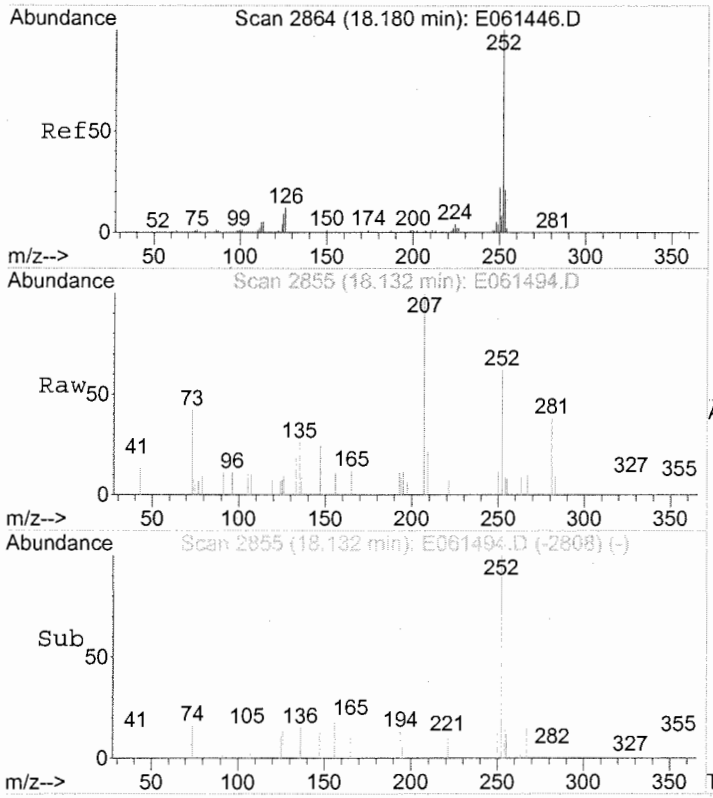


#82
Benzo(b)fluoranthene
Concen: 0.33 mg/L
RT: 18.13 min Scan# 2855
Delta R.T. 0.00 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:252 Resp: 2898

Ion	Ratio	Lower	Upper
252	100		
253	19.7	17.4	26.2
125	15.1	7.1	10.7#

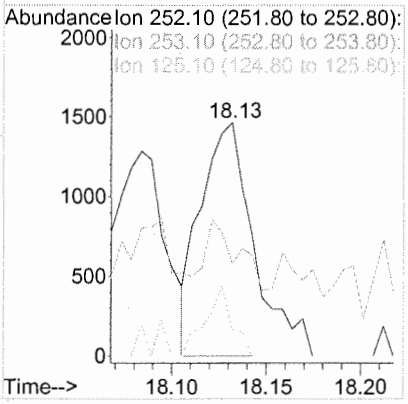


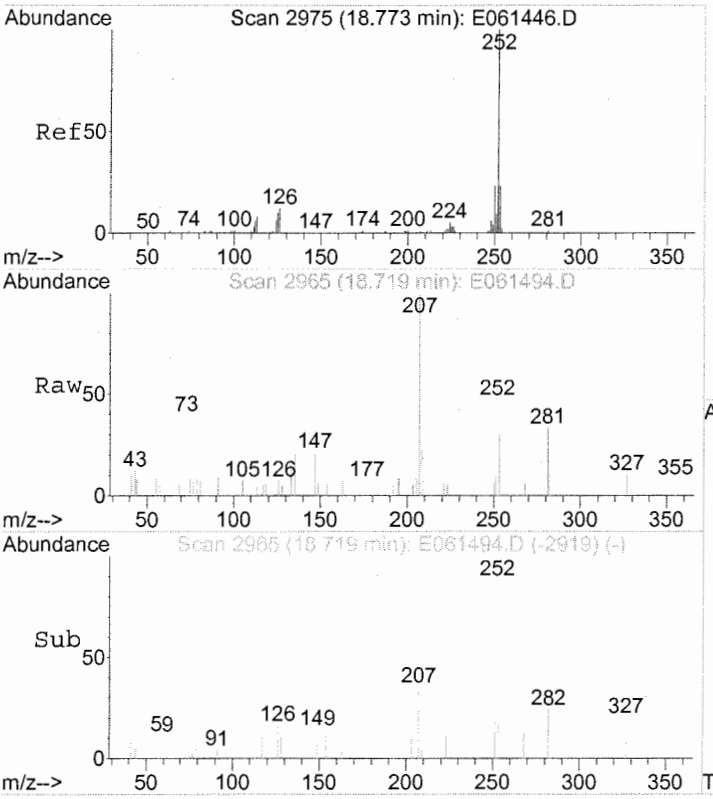


#83
Benzo(k)fluoranthene
Concen: 0.33 mg/L
RT: 18.13 min Scan# 2855
Delta R.T. -0.05 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:252 Resp: 2898

Ion	Ratio	Lower	Upper
252	100		
253	17.6	17.5	26.3
125	15.1	7.4	11.2#

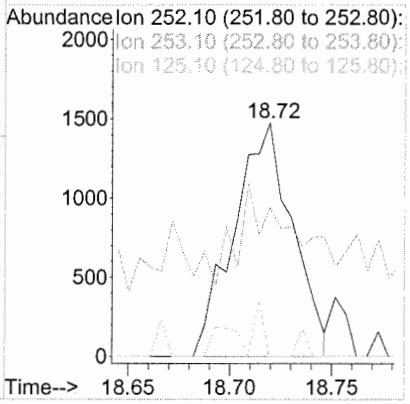


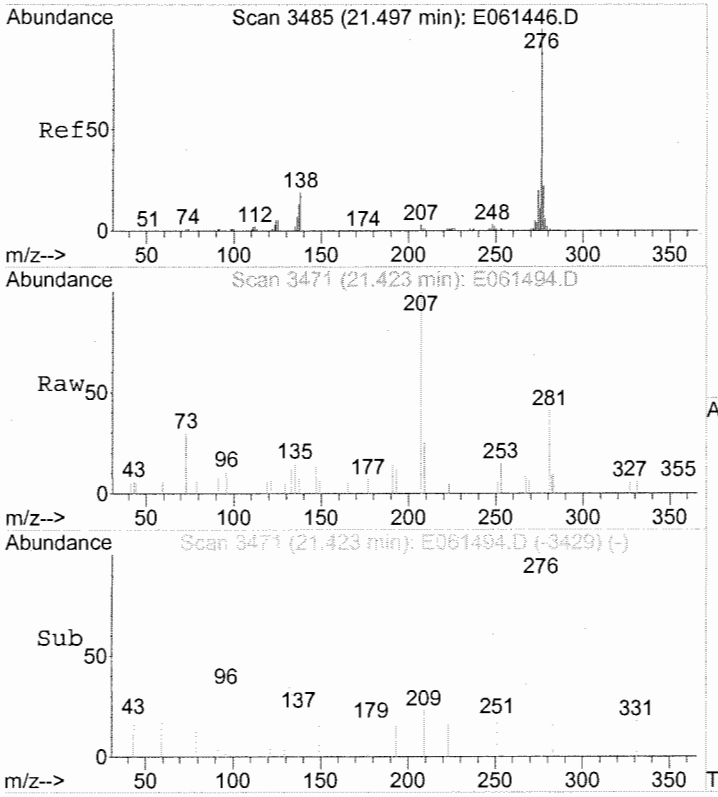


#84
Benzo(a)pyrene
Concen: 0.42 mg/L
RT: 18.72 min Scan# 2965
Delta R.T. -0.05 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:252 Resp: 2943

Ion	Ratio	Lower	Upper
252	100		
253	33.5	17.3	25.9#
125	3.9	7.7	11.5#

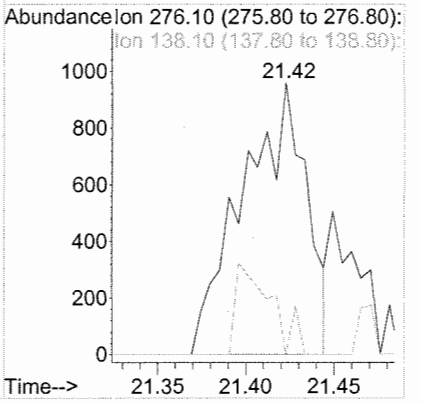


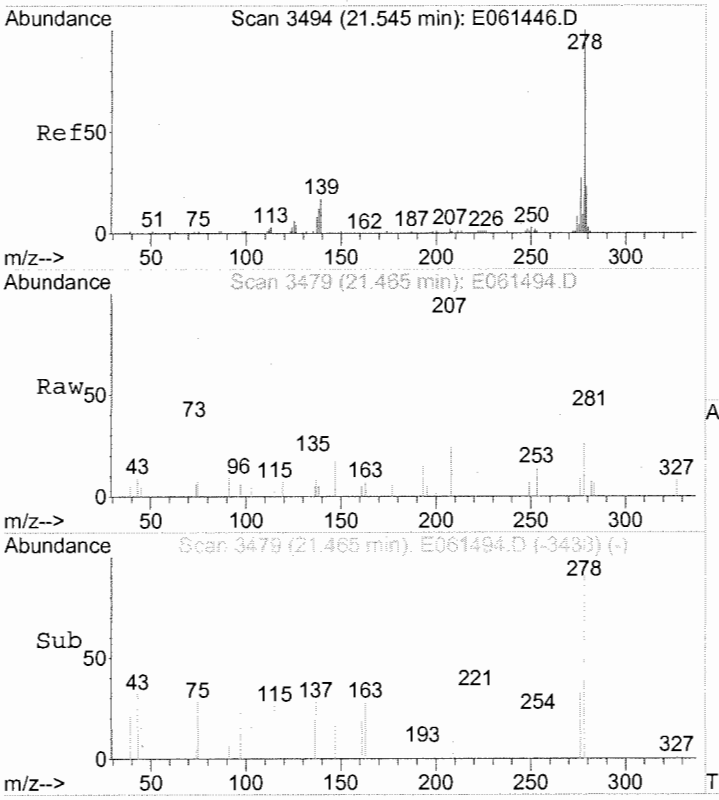


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.42 mg/L
RT: 21.42 min Scan# 3471
Delta R.T. -0.07 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:276 Resp: 2421

Ion	Ratio	Lower	Upper
276	100		
138	18.8	15.8	23.8

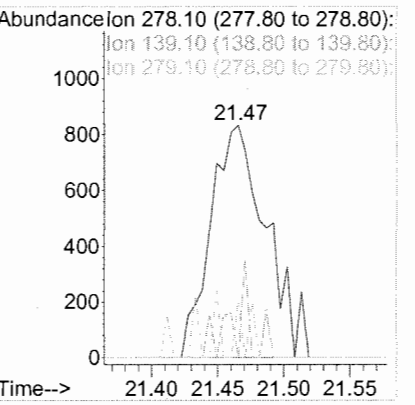


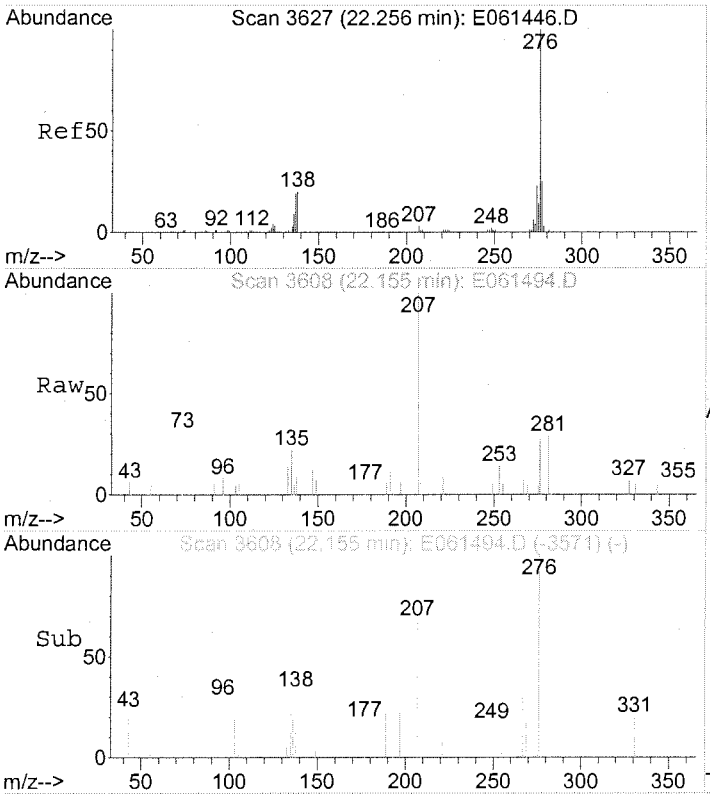


#86
Dibenz(a,h)anthracene
Concen: 0.49 mg/L
RT: 21.47 min Scan# 3479
Delta R.T. -0.08 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:278 Resp: 2426

Ion	Ratio	Lower	Upper
278	100		
139	6.2	12.2	18.2#
279	2.6	17.8	26.8#

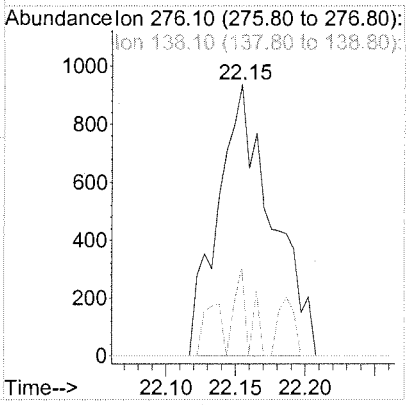




#87
Benzo(g,h,i)perylene
Concen: 0.53 mg/L
RT: 22.15 min Scan# 3608
Delta R.T. -0.10 min
Lab File: E061494.D
Acq: 25 Oct 2006 12:54 pm

Tgt Ion:276 Resp: 2531

Ion	Ratio	Lower	Upper
276	100		
138	9.0	17.2	25.8#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	D0601625
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75174	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061502.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 17:12	**Quant Date:**	10/26/2006 08:18	**Vial:**	17
Run Type:	SMPL			**Dilution:**	50.0
Lab ID:	D0601625-002			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.97	-0.01?	152	205420	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	789248	40.00	OK
3	Acenaphthene-d10	9.74	-0.01?	164	486802	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	820218	40.00	OK
5	Chrysene-d12	15.95	-0.01?	240	402121	40.00	OK
6	Perylene-d12	18.83	-0.01?	264	243230	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol			0.00	112	0d		0	23-115	*	NR
1	Phenol-d5			0.00	99	0d		0	23-121	*	NR
2	Nitrobenzene-d5			0.00	82	0d		0	42-122	*	NR
3	2-Fluorobiphenyl			0.00	172	0d		0	47-110	*	NR
4	2,4,6-Tribromophenol			0.00	330	0d		0	31-112	*	NR
5	Terphenyl-d14			0.00	244	0d		0	37-130	*	NR

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.01	0.01	0.00	88	74412	21.95	1100	D	
1	N-Nitrosodimethylamine				42	0		24	U	NR
1	Pyridine				79	0		17	U	NR
1	Phenol				94	0		5.5	U	NR
1	Aniline				93	0		17	U	NR
1	Bis(2-chloroethyl) Ether				93	0		12	U	NR
1	2-Chlorophenol				128	0		12	U	NR
1	1,3-Dichlorobenzene				146	0		10	U	NR
1	1,4-Dichlorobenzene				146	0		12	U	NR
1	Benzyl alcohol				108	0d		11	U	NR

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Mauual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061502.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 17:12	**Quant Date:**	10/26/2006 08:18	**Vial:**	17
Run Type:	SMPL			**Dilution:**	50.0
Lab ID:	D0601625-002			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		8.5	U	NR
1	2-Methylphenol				108	0		16	U	NR
1	Bis(2-Chloroisopropyl)ether				45	0		12	U	NR
1	4-Methylphenol				107	0		14	U	NR
1	N-Nitrosodi-n-propylamine				70	0		14	U	NR
1	Hexachloroethane				117	0		130	U	NR
2	Nitrobenzene				77	0		13	U	NR
2	Isophorone				82	0		15	U	NR
2	2-Nitrophenol				139	0		13	U	NR
2	2,4-Dimethylphenol				122	0		42	U	NR
2	Benzoic acid				122	0		1000	U	NR
2	bis(2-Chloroethoxy)methane				93	0		16	U	NR
2	2,4-Dichlorophenol				162	0		12	U	NR
2	1,2,4-Trichlorobenzene				180	0		10	U	NR
2	Naphthalene				128	0		11	U	NR
2	4-Chloroaniline				127	0		18	U	NR
2	Hexachlorobutadiene				225	0		11	U	NR
2	4-Chloro-3-methylphenol				107	0		16	U	NR
2	2-Methylnaphthalene				142	0		9.0	U	NR
3	Hexachlorocyclopentadiene				237	0		90	U	NR
3	2,4,6-Trichlorophenol				196	0		14	U	NR
3	2,4,5-Trichlorophenol				196	0		14	U	NR
3	2-Chloronaphthalene				162	0		11	U	NR
3	2-Nitroaniline				65	0		14	U	NR
3	Dimethyl Phthalate				163	0		13	U	NR
3	Acenaphthylene				152	0		12	U	NR
3	2,6-Dinitrotoluene				165	0		15	U	NR
3	3-Nitroaniline				138	0		15	U	NR
3	Acenaphthene				154	0		7.5	U	NR
3	2,4-Dinitrophenol				184	0		500	U	NR
3	4-Nitrophenol				109	0		1000	U	NR
3	Dibenzofuran				168	0		11	U	NR
3	2,4-Dinitrotoluene				165	0		15	U	NR
3	Fluorene				166	0		11	U	NR
3	Diethyl Phthalate				149	0		14	U	NR
3	4-Chlorophenyl Phenyl Ether				204	0		11	U	NR
3	4-Nitroaniline				138	0		18	U	NR
4	2-Methyl-4,6-dinitrophenol				198	0		10	U	NR
4	N-Nitrosodiphenylamine				169	0		12	U	NR
4	4-Bromophenyl Phenyl Ether				248	0		9.0	U	NR
4	Hexachlorobenzene				284	0		11	U	NR
4	Pentachlorophenol				266	0		32	U	NR
4	Phenanthrene				178	0		11	U	NR

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061502.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 17:12	**Quant Date:**	10/26/2006 08:18	**Vial:**	17
Run Type:	SMPL			**Dilution:**	50.0
Lab ID:	D0601625-002			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		11	U	NR
4	Di-n-butyl Phthalate				149	0		13	U	NR
4	Fluoranthene				202	0		11	U	NR
5	Pyrene				202	0		17	U	NR
5	Butyl Benzyl Phthalate				149	0		24	U	NR
5	3,3'-Dichlorobenzidine				252	0		42	U	NR
5	Benz(a)anthracene				228	0		11	U	NR
5	Chrysene				228	0		11	U	NR
5	Bis(2-ethylhexyl) Phthalate				149	0		15	U	NR
6	Di-n-octyl Phthalate				149	0		17	U	NR
6	Benzo(b)fluoranthene				252	0		21	U	NR
6	Benzo(k)fluoranthene				252	0		16	U	NR
6	Benzo(a)pyrene				252	0		27	U	NR
6	Indeno(1,2,3-cd)pyrene				276	0		33	U	NR
6	Dibenz(a,h)anthracene				278	0		31	U	NR
6	Benzo(g,h,i)perylene				276	0		37	U	NR

Prep Amount:	1020 ml	**Dilution:**	50.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient informatiou to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061502.D Vial: 17
Acq On : 25 Oct 2006 5:12 pm Operator: SC
Sample : D0601625-002 1/50 8270W 10/6/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 08:17:36 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/26/06

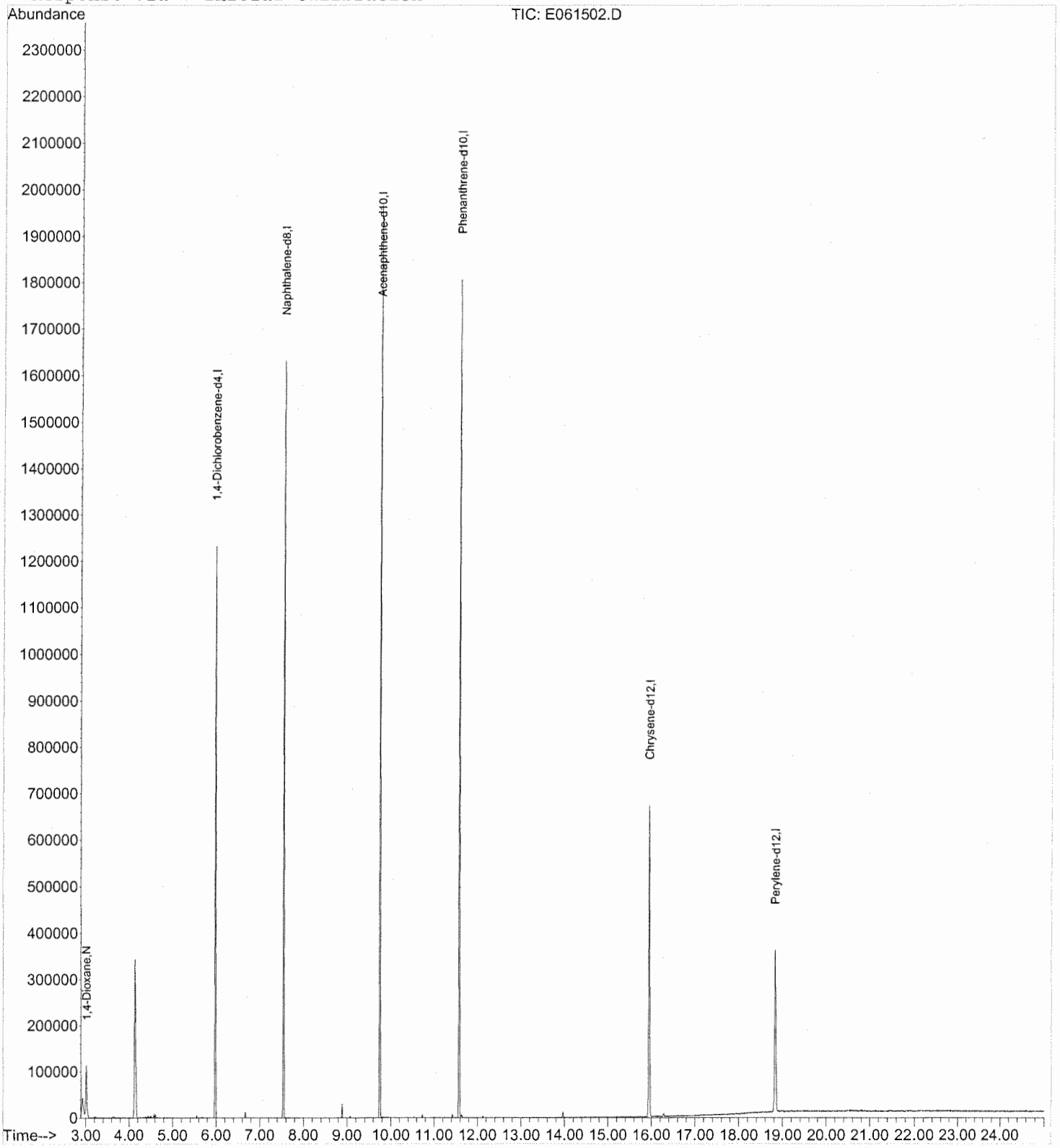
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.97	152	205420	40.00	mg/L	-0.02
22) Naphthalene-d8	7.54	136	789248	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.74	164	486802	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	820218	40.00	mg/L	-0.03
70) Chrysene-d12	15.95	240	402121	40.00	mg/L	-0.06
80) Perylene-d12	18.83	264	243230	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	0.00	112	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
7) Phenol-d5	0.00	99	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
23) Nitrobenzene-d5	0.00	82	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
41) 2-Fluorobiphenyl	0.00	172	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
61) 2,4,6-Tribromophenol	0.00	330	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
73) Terphenyl-d14	0.00	244	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	74412	21.95	mg/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061502.D Vial: 17
Acq On : 25 Oct 2006 5:12 pm Operator: SC
Sample : D0601625-002 1/50 8270W 10/6/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 8:18 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061502.D Vial: 17
Acq On : 25 Oct 2006 5:12 pm Operator: SC
Sample : D0601625-002 1/50 8270W 10/6/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 08:17:36 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

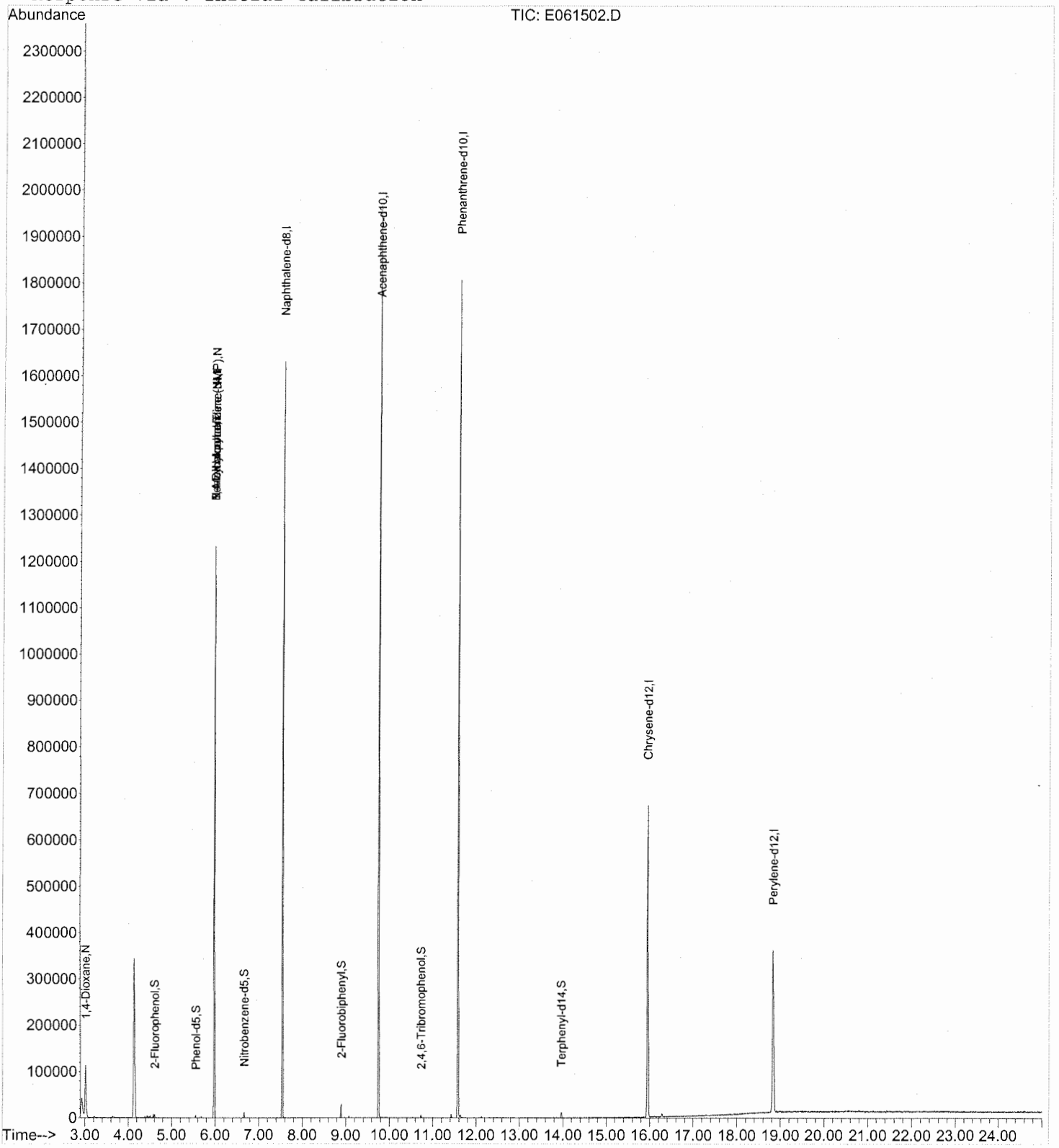
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.97	152	205420	40.00	mg/L	-0.02
22) Naphthalene-d8	7.54	136	789248	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.74	164	486802	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	820218	40.00	mg/L	-0.03
70) Chrysene-d12	15.95	240	402121	40.00	mg/L	-0.06
80) Perylene-d12	18.83	264	243230	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	2148	0.39	mg/L	0.00
Spiked Amount 50.000			Recovery = 0.78%			
7) Phenol-d5	5.55	99	1972	0.27	mg/L	0.00
Spiked Amount 50.000			Recovery = 0.54%			
23) Nitrobenzene-d5	6.67	82	4684	0.68	mg/L	-0.01
Spiked Amount 50.000			Recovery = 1.36%			
41) 2-Fluorobiphenyl	8.89	172	10828	0.74	mg/L	-0.02
Spiked Amount 50.000			Recovery = 1.48%			
61) 2,4,6-Tribromophenol	10.73	330	1143	0.61	mg/L	-0.02
Spiked Amount 50.000			Recovery = 1.22%			
73) Terphenyl-d14	13.96	244	7098	0.67	mg/L	-0.04
Spiked Amount 50.000			Recovery = 1.34%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	74412	21.95	mg/L	99
14) Benzyl alcohol	5.97	108	1139	0.29	mg/L #	1
16) N-Methyl pyrrolidine (NMP)	5.97	99	3869	0.93	mg/L #	37

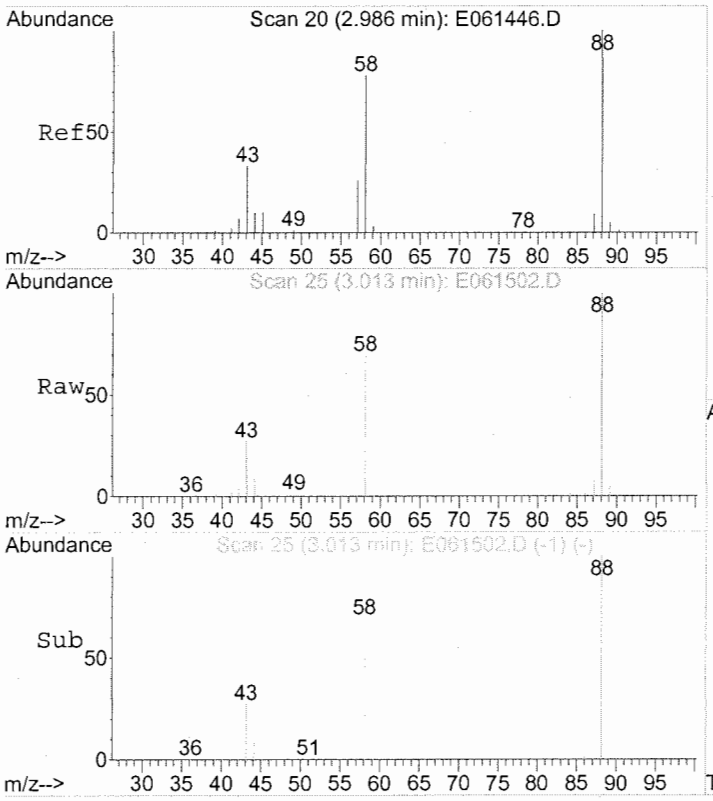
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061502.D Vial: 17
Acq On : 25 Oct 2006 5:12 pm Operator: SC
Sample : D0601625-002 1/50 8270W 10/6/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 8:17 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

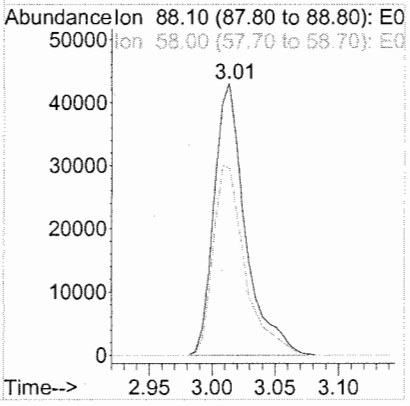


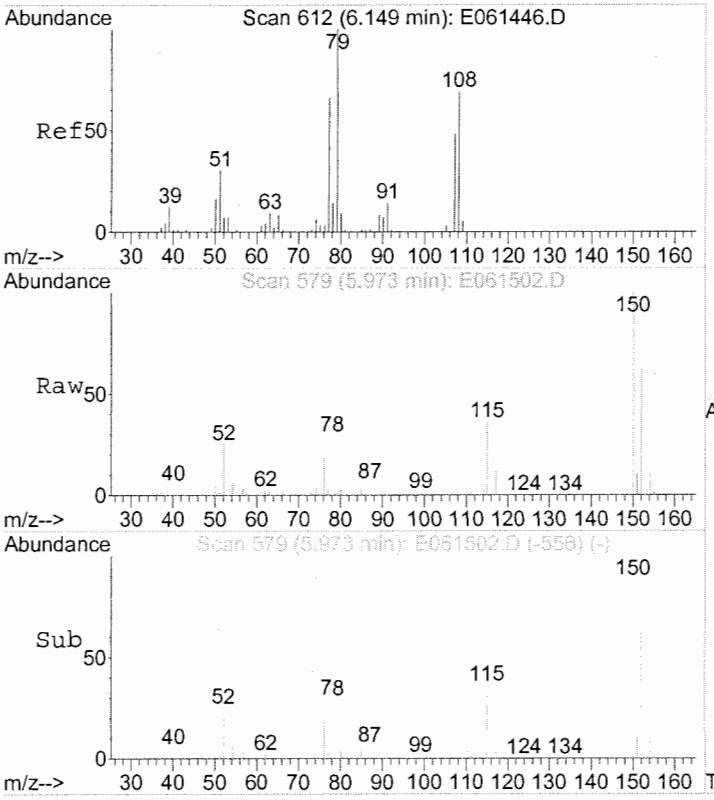


#2
1,4-Dioxane
Concen: 21.95 mg/L
RT: 3.01 min Scan# 25
Delta R.T. 0.03 min
Lab File: E061502.D
Acq: 25 Oct 2006 5:12 pm

Tgt Ion: 88 Resp: 74412

Ion	Ratio	Lower	Upper
88	100		
58	71.3	57.6	86.4

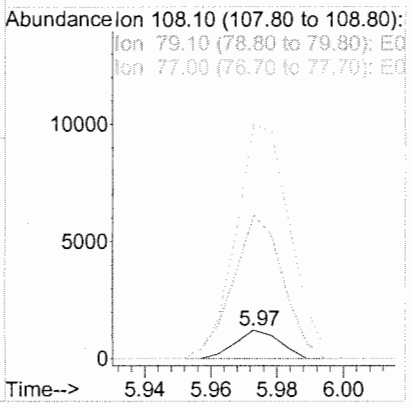


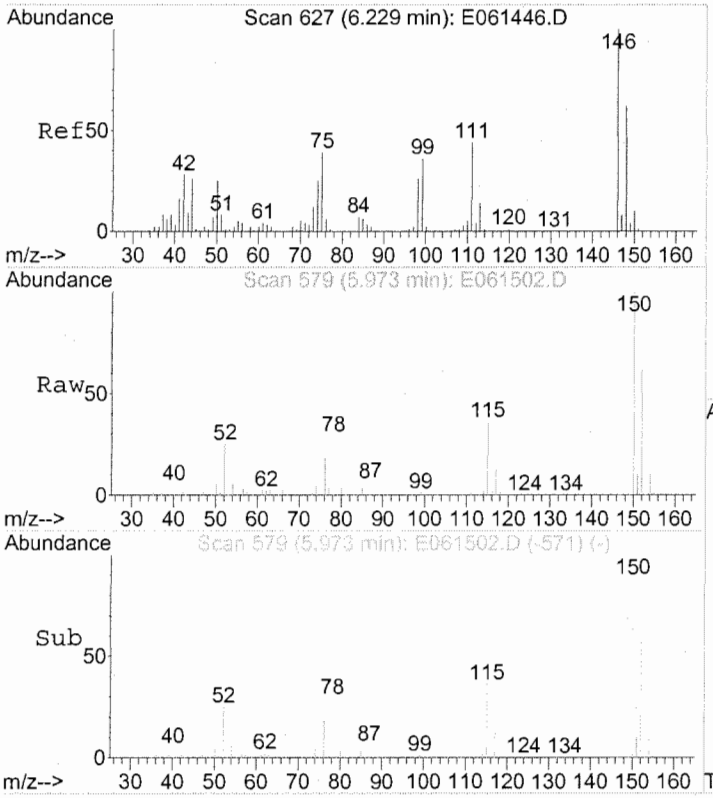


#14
Benzyl alcohol
Concen: 0.29 mg/L
RT: 5.97 min Scan# 579
Delta R.T. -0.18 min
Lab File: E061502.D
Acq: 25 Oct 2006 5:12 pm

Tgt Ion:108 Resp: 1139

Ion	Ratio	Lower	Upper
108	100		
79	565.3	116.8	175.2#
77	998.0	76.2	114.4#

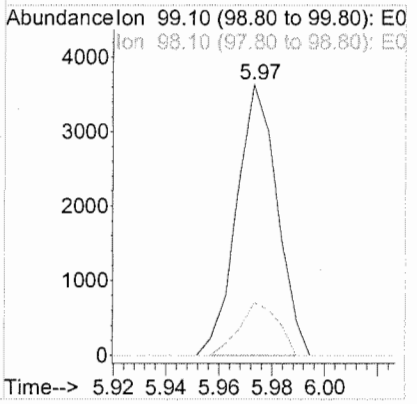




#16
N-Methyl pyrrolidine (NMP)
Concen: 0.93 mg/L
RT: 5.97 min Scan# 579
Delta R.T. -0.26 min
Lab File: E061502.D
Acq: 25 Oct 2006 5:12 pm

Tgt Ion: 99 Resp: 3869

Ion	Ratio	Lower	Upper
99	100		
98	18.4	55.9	83.9#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	D0601625
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75175	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061495.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 13:26	**Quant Date:**	10/25/2006 13:54	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-004			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	0.00?	152	199132	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	763897	40.00	OK
3	Acenaphthene-d10	9.74	-0.01?	164	473620	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	797880	40.00	OK
5	Chrysene-d12	15.96	0.00?	240	392474	40.00	OK
6	Perylene-d12	18.83	-0.01?	264	202714	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.60	-0.01	0.00	112	122372	22.88	46	23-115	OK	
1	Phenol-d5	5.55	0.00	0.00	99	132354	18.52	37	23-121	OK	
2	Nitrobenzene-d5	6.67	0.00	0.00	82	259416	38.78	78	42-122	OK	
3	2-Fluorobiphenyl	8.89	0.00	0.00	172	561635	39.43	79	47-110	OK	
4	2,4,6-Tribromophenol	10.73	-0.01	0.00	330	76961	42.51	85	31-112	OK	
5	Terphenyl-d14	13.97	0.00	0.00	244	451399	43.37	87	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane				88	0d		0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, bnt below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061495.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 13:26	**Quant Date:**	10/25/2006 13:54	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-004			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0		0.83	U	
2	Benzoic acid				122	0**d**		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.30	-0.01	0.00	149	25380	1.77	1.8	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evideuce of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061495.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 13:26	**Quant Date:**	10/25/2006 13:54	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-004			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.39		0.00	149	6241	0.2800	0.28	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0		0.48	U	
5	3,3'-Dichlorobenzidine				252	0**d**		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.11	-0.01	0.00	149	52628	7.11	7.0		
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene				252	0**d**		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1010 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also fonnd in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insnfficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061495.D Vial: 10
Acq On : 25 Oct 2006 1:26 pm Operator: SC
Sample : D0601625-004 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:52:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E. 10/26/06

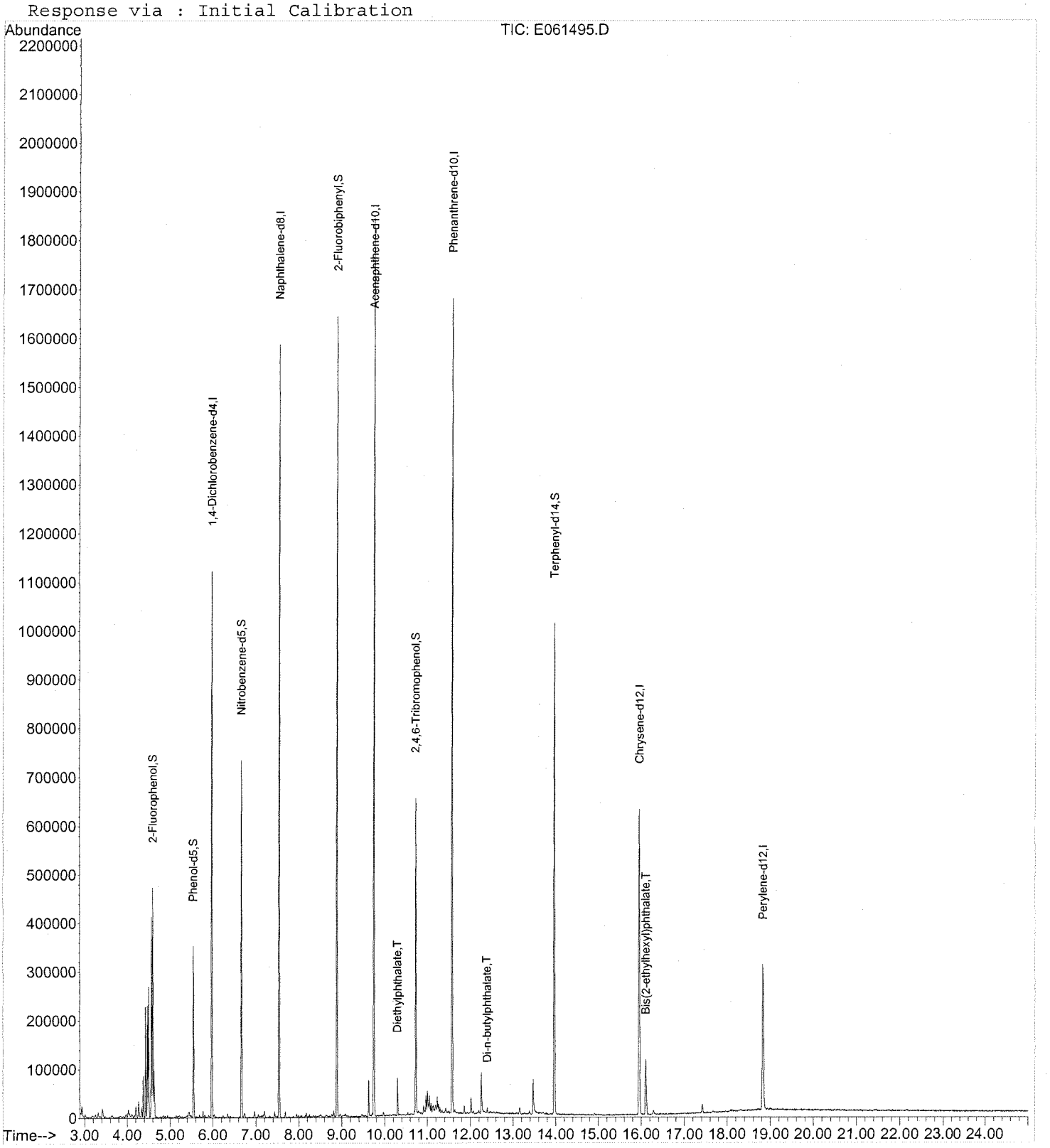
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	199132	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	763897	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.74	164	473620	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	797880	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	392474	40.00	mg/L	-0.05
80) Perylene-d12	18.83	264	202714	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.60	112	122372	22.88	mg/L	0.00
Spiked Amount 50.000			Recovery = 45.76%			
7) Phenol-d5	5.55	99	132354	18.52	mg/L	-0.01
Spiked Amount 50.000			Recovery = 37.04%			
23) Nitrobenzene-d5	6.67	82	259416	38.78	mg/L	-0.01
Spiked Amount 50.000			Recovery = 77.56%			
41) 2-Fluorobiphenyl	8.89	172	561635	39.43	mg/L	-0.02
Spiked Amount 50.000			Recovery = 78.86%			
61) 2,4,6-Tribromophenol	10.73	330	76961	42.51	mg/L	-0.02
Spiked Amount 50.000			Recovery = 85.02%			
73) Terphenyl-d14	13.97	244	451399	43.37	mg/L	-0.03
Spiked Amount 50.000			Recovery = 86.74%			
Target Compounds						Qvalue
54) Diethylphthalate	10.30	149	25380	1.77	mg/L	99
68) Di-n-butylphthalate	12.39	149	6241	0.28	mg/L #	96
78) Bis(2-ethylhexyl)phthalate	16.11	149	52628	7.11	mg/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061495.D BA061011.M Wed Oct 25 13:54:16 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061495.D Vial: 10
Acq On : 25 Oct 2006 1:26 pm Operator: SC
Sample : D0601625-004 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:54 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061495.D Vial: 10
Acq On : 25 Oct 2006 1:26 pm Operator: SC
Sample : D0601625-004 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:52:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

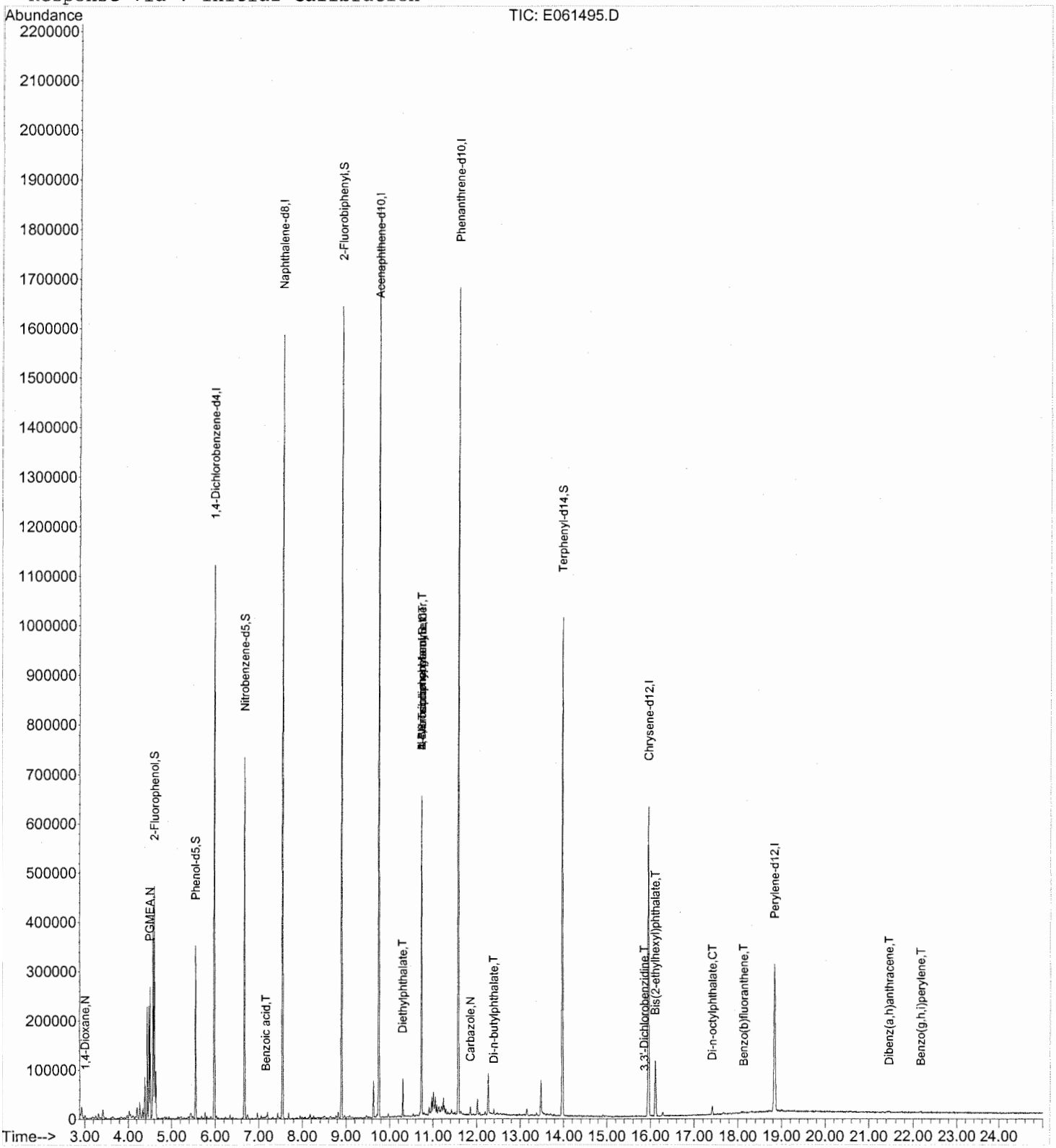
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	199132	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	763897	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.74	164	473620	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	797880	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	392474	40.00	mg/L	-0.05
80) Perylene-d12	18.83	264	202714	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.60	112	122372	22.88	mg/L	0.00
Spiked Amount 50.000			Recovery = 45.76%			
7) Phenol-d5	5.55	99	132354	18.52	mg/L	-0.01
Spiked Amount 50.000			Recovery = 37.04%			
23) Nitrobenzene-d5	6.67	82	259416	38.78	mg/L	-0.01
Spiked Amount 50.000			Recovery = 77.56%			
41) 2-Fluorobiphenyl	8.89	172	561635	39.43	mg/L	-0.02
Spiked Amount 50.000			Recovery = 78.86%			
61) 2,4,6-Tribromophenol	10.73	330	76961	42.51	mg/L	-0.02
Spiked Amount 50.000			Recovery = 85.02%			
73) Terphenyl-d14	13.97	244	451399	43.37	mg/L	-0.03
Spiked Amount 50.000			Recovery = 86.74%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	699	0.21	mg/L #	67
5) PGMEA	4.50	43	6773	0.71	mg/L #	22
28) Benzoic acid	7.16	122	1038	0.28	mg/L #	81
54) Diethylphthalate	10.30	149	25380	1.77	mg/L	99
59) N-Nitrosodiphenylamine	10.73	169	3210	0.31	mg/L #	45
62) 4-Bromophenyl phenyl ether	10.73	248	5021	1.12	mg/L #	1
67) Carbazole	11.85	167	426	4.57	mg/L #	82
68) Di-n-butylphthalate	12.39	149	6241	0.28	mg/L #	96
75) 3,3'-Dichlorobenzidine	15.86	252	68	7.22	mg/L #	1
78) Bis(2-ethylhexyl)phthalate	16.11	149	52628	7.11	mg/L	98
81) Di-n-octylphthalate	17.42	149	2895	0.28	mg/L #	63
82) Benzo(b)fluoranthene	18.13	252	1591	0.24	mg/L #	96
86) Dibenz(a,h)anthracene	21.45	278	1642	0.45	mg/L #	75
87) Benzo(g,h,i)perylene	22.17	276	2200	0.62	mg/L #	81

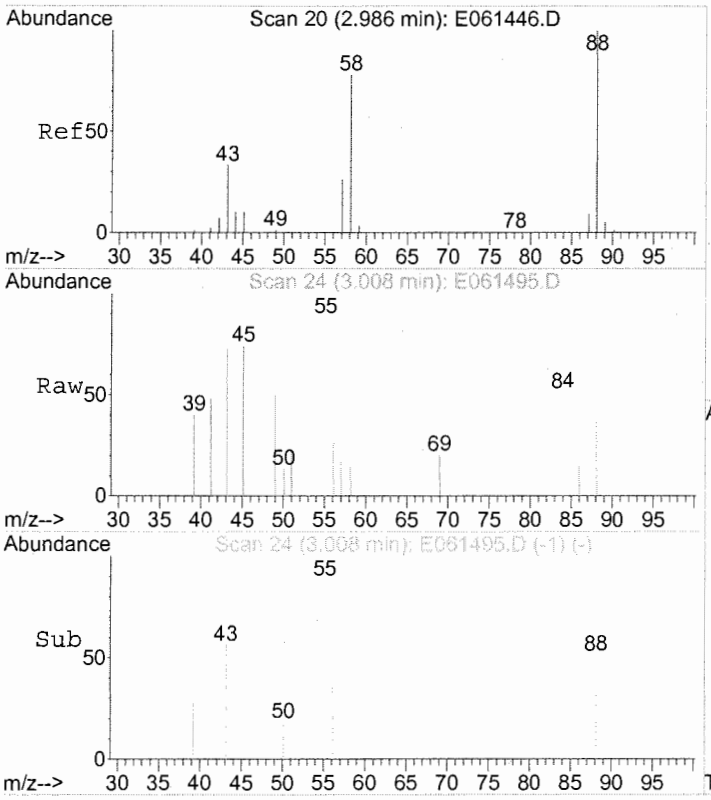
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061495.D Vial: 10
Acq On : 25 Oct 2006 1:26 pm Operator: SC
Sample : D0601625-004 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 13:52 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

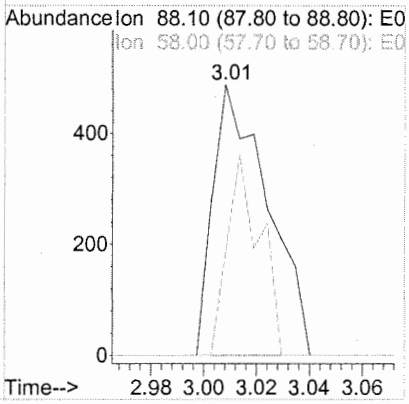


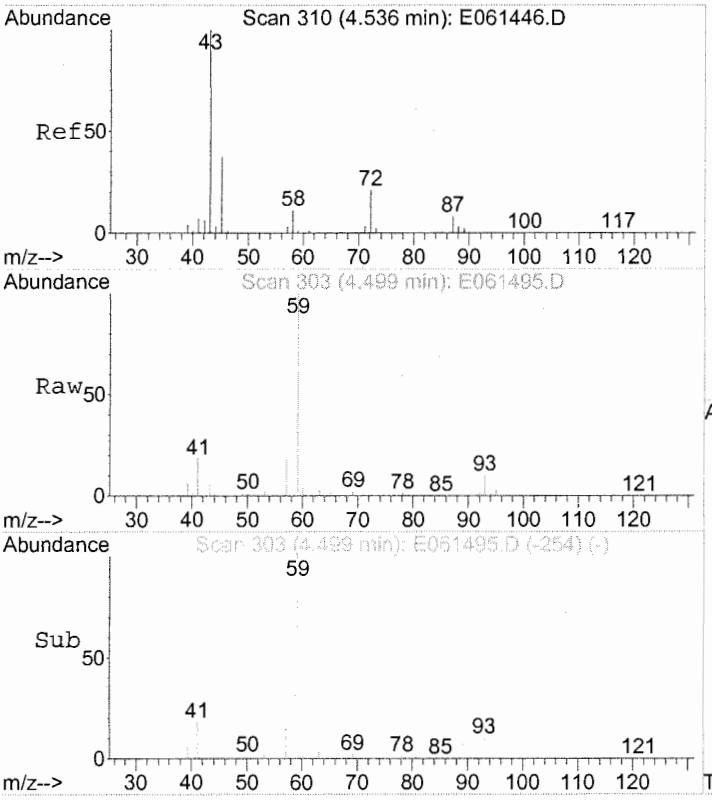


#2
1,4-Dioxane
Concen: 0.21 mg/L
RT: 3.01 min Scan# 24
Delta R.T. 0.02 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion: 88 Resp: 699

Ion	Ratio	Lower	Upper
88	100		
58	44.5	57.6	86.4#

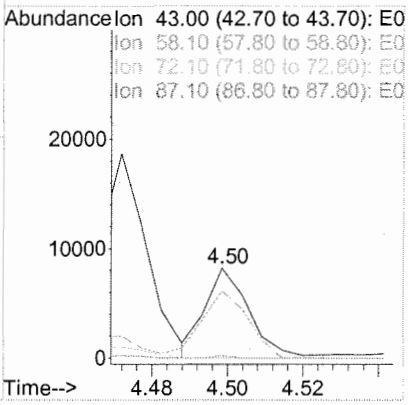


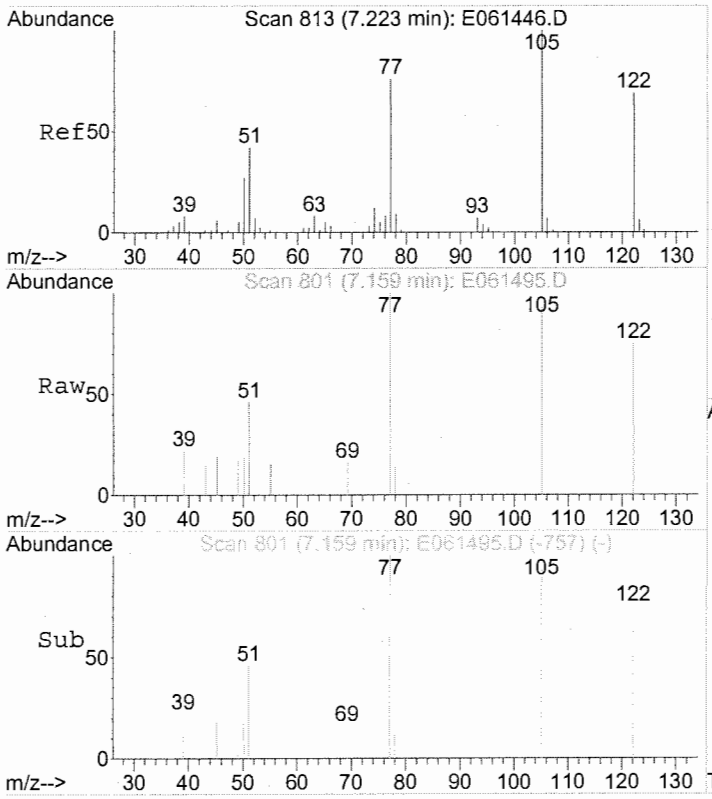


#5
PGMEA
Concen: 0.71 mg/L
RT: 4.50 min Scan# 303
Delta R.T. -0.04 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion: 43 Resp: 6773

Ion	Ratio	Lower	Upper
43	100		
58	79.6	9.4	14.2#
72	0.0	16.8	25.2#
87	0.0	6.6	10.0#

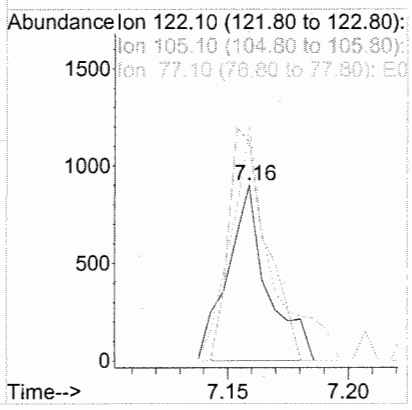


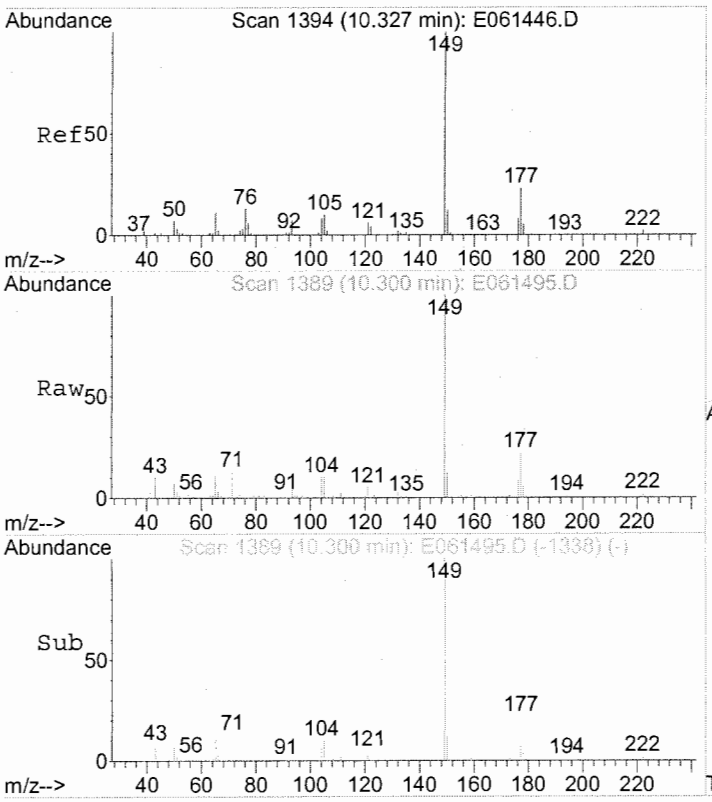


#28
Benzoic acid
Concen: 0.28 mg/L
RT: 7.16 min Scan# 801
Delta R.T. -0.06 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:122 Resp: 1038

Ion	Ratio	Lower	Upper
122	100		
105	125.8	110.7	166.1
77	137.5	84.6	126.8#

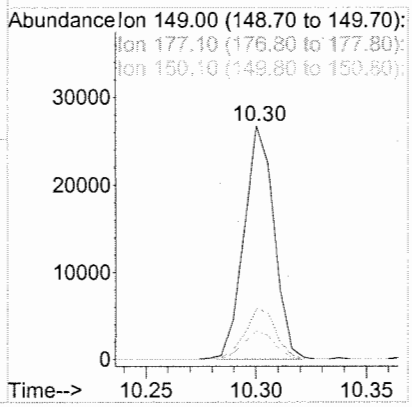


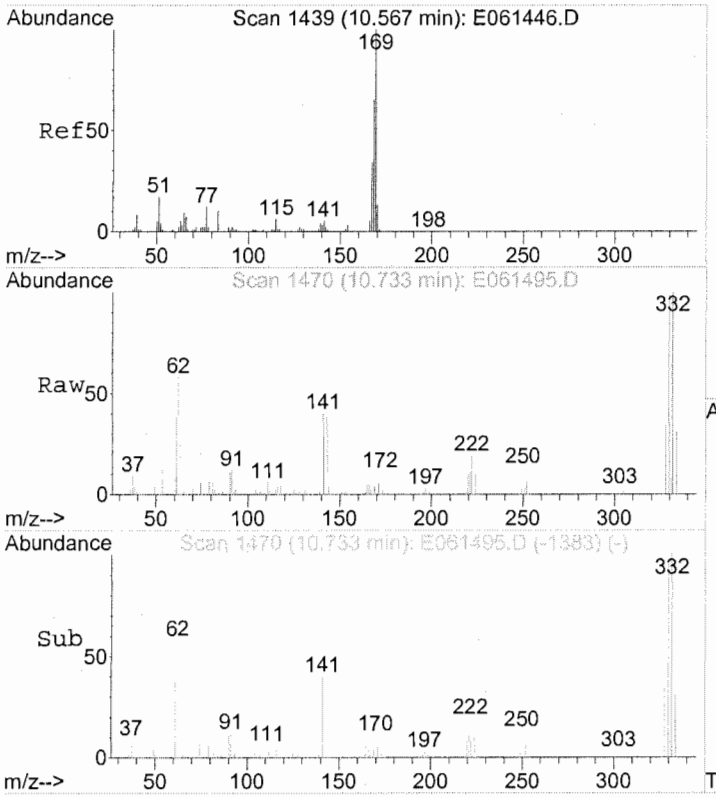


#54
Diethylphthalate
Concen: 1.77 mg/L
RT: 10.30 min Scan# 1389
Delta R.T. -0.03 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:149 Resp: 25380

Ion	Ratio	Lower	Upper
149	100		
177	22.7	19.0	28.4
150	12.6	9.9	14.9

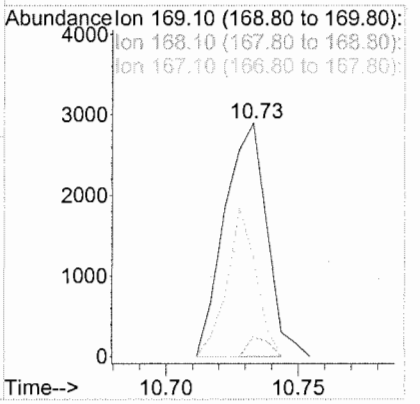


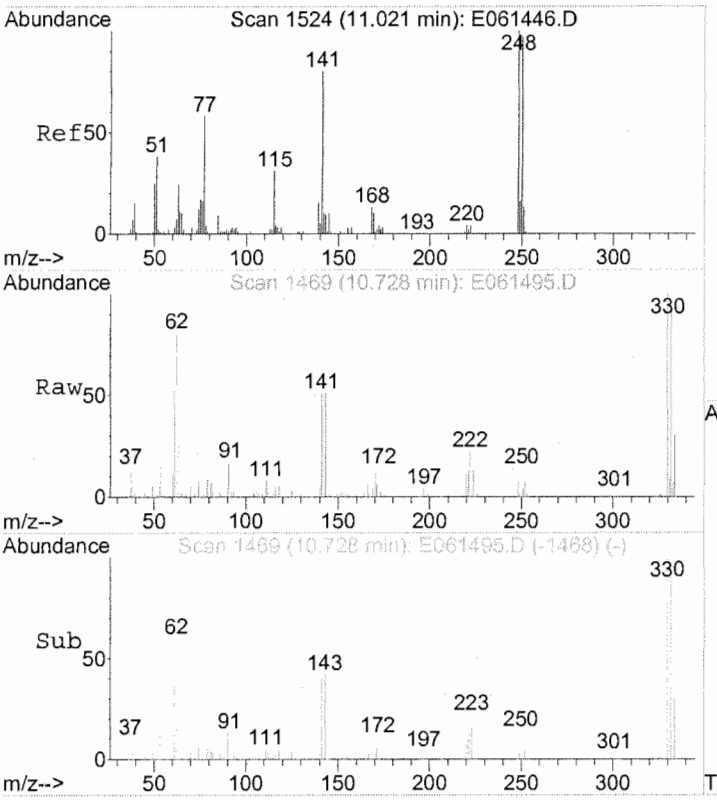


#59
N-Nitrosodiphenylamine
Concen: 0.31 mg/L
RT: 10.73 min Scan# 1470
Delta R.T. 0.17 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:169 Resp: 3210

Ion	Ratio	Lower	Upper
169	100		
168	4.3	51.3	76.9#
167	43.9	27.7	41.5#

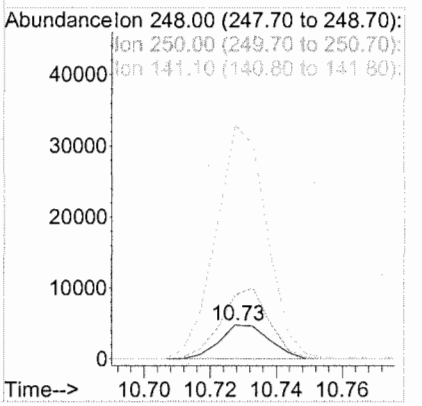


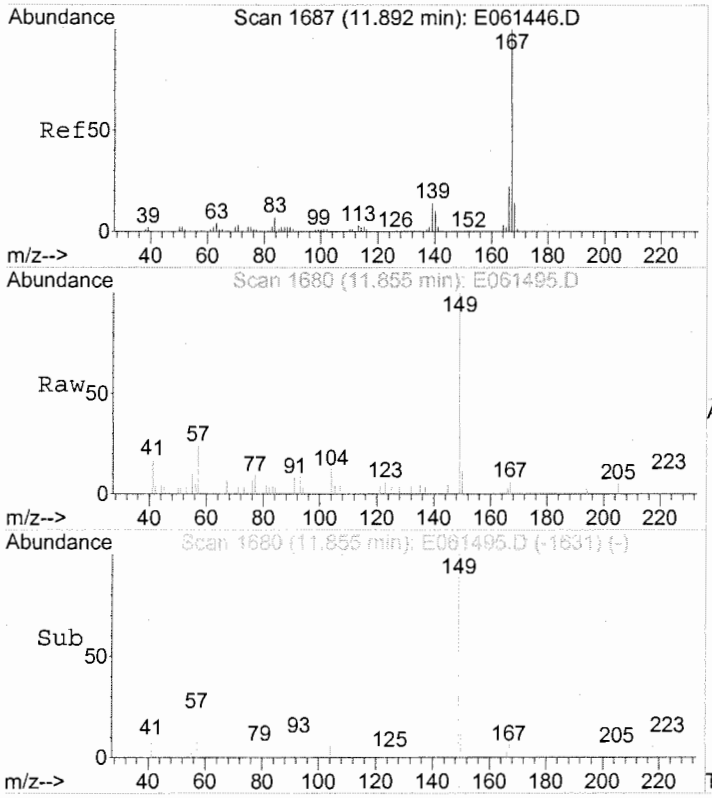


#62
4-Bromophenyl phenyl ether
Concen: 1.12 mg/L
RT: 10.73 min Scan# 1469
Delta R.T. -0.29 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:248 Resp: 5021

Ion	Ratio	Lower	Upper
248	100		
250	199.4	77.0	115.6#
141	689.2	55.9	83.9#

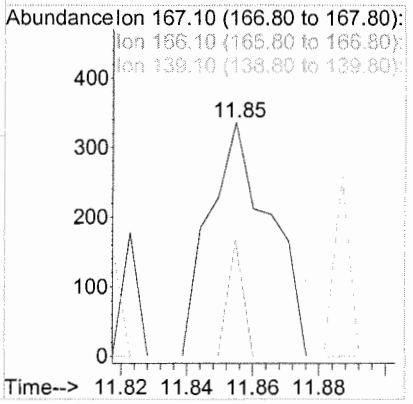


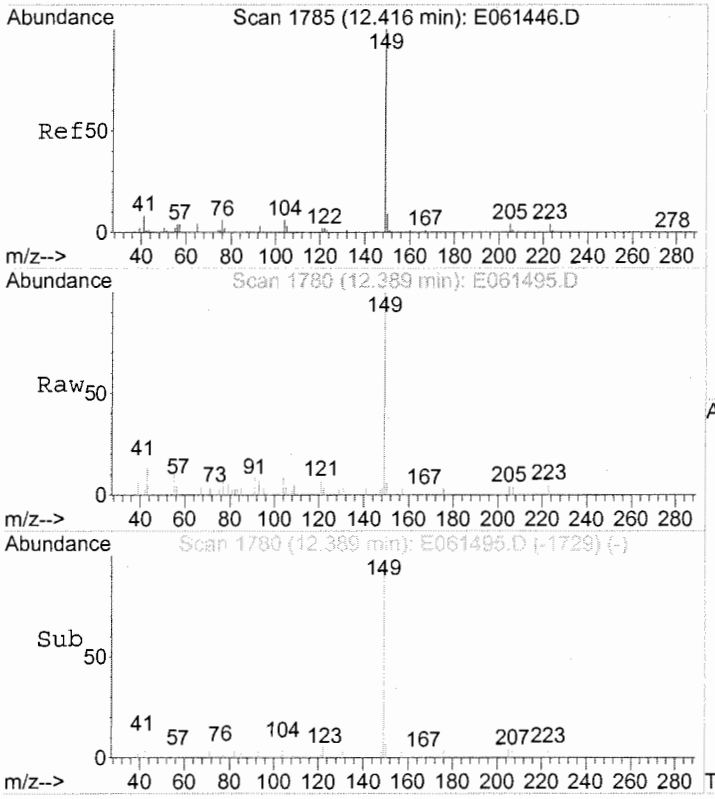


#67
Carbazole
Concen: 4.57 mg/L
RT: 11.85 min Scan# 1680
Delta R.T. -0.04 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:167 Resp: 426

Ion	Ratio	Lower	Upper
167	100		
166	12.7	17.0	25.4#
139	19.5	10.3	15.5#

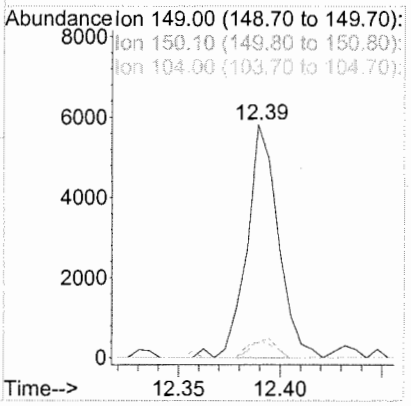


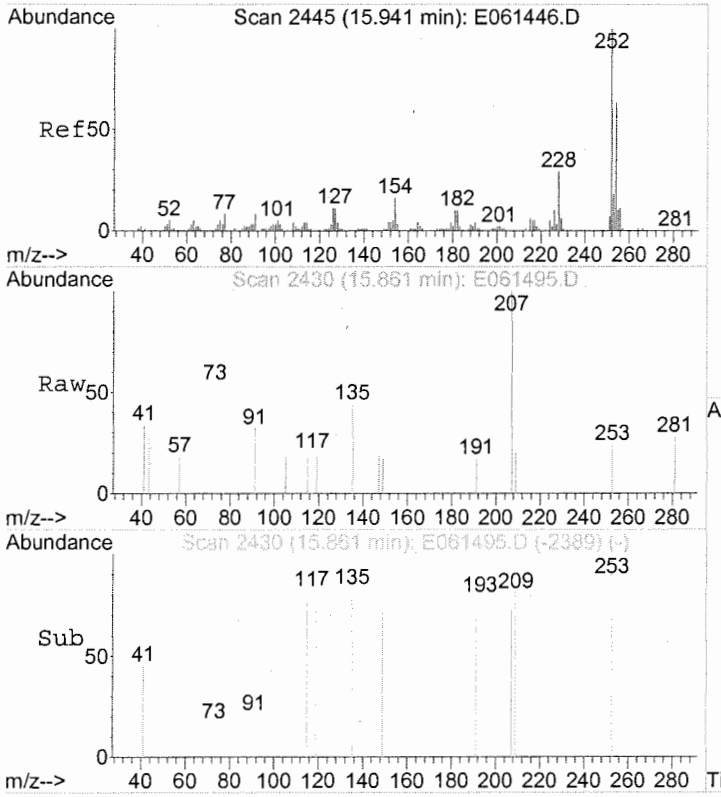


#68
Di-n-butylphthalate
Concen: 0.28 mg/L
RT: 12.39 min Scan# 1780
Delta R.T. -0.03 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:149 Resp: 6241

Ion	Ratio	Lower	Upper
149	100		
150	6.9	7.2	10.8#
104	5.8	4.6	6.8

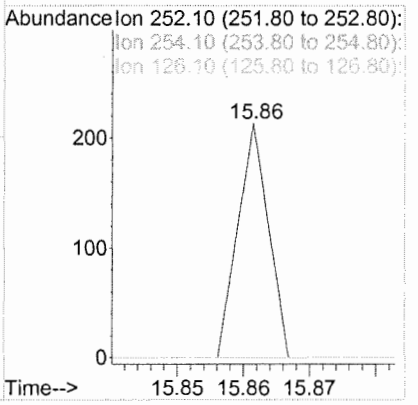


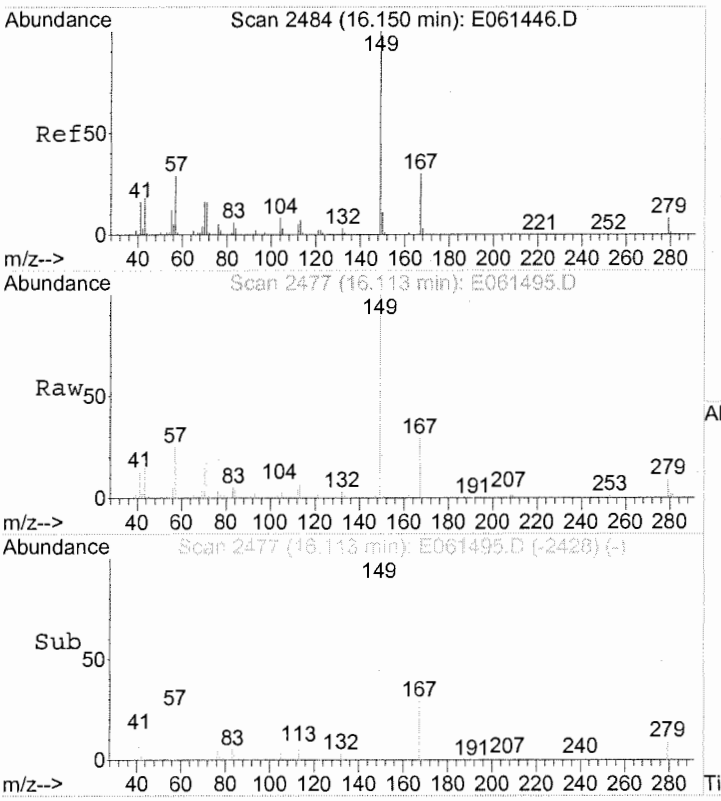


#75
3,3'-Dichlorobenzidine
Concen: 7.22 mg/L
RT: 15.86 min Scan# 2430
Delta R.T. -0.08 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:252 Resp: 68

Ion	Ratio	Lower	Upper
252	100		
254	73.5	51.0	76.4
126	1320.6	8.0	12.0#

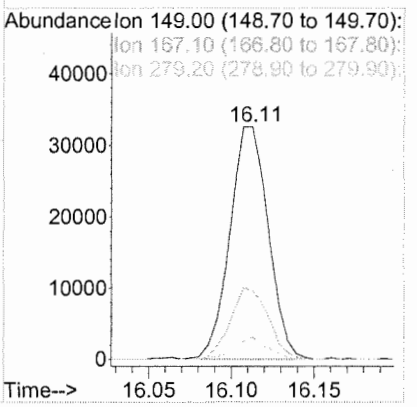


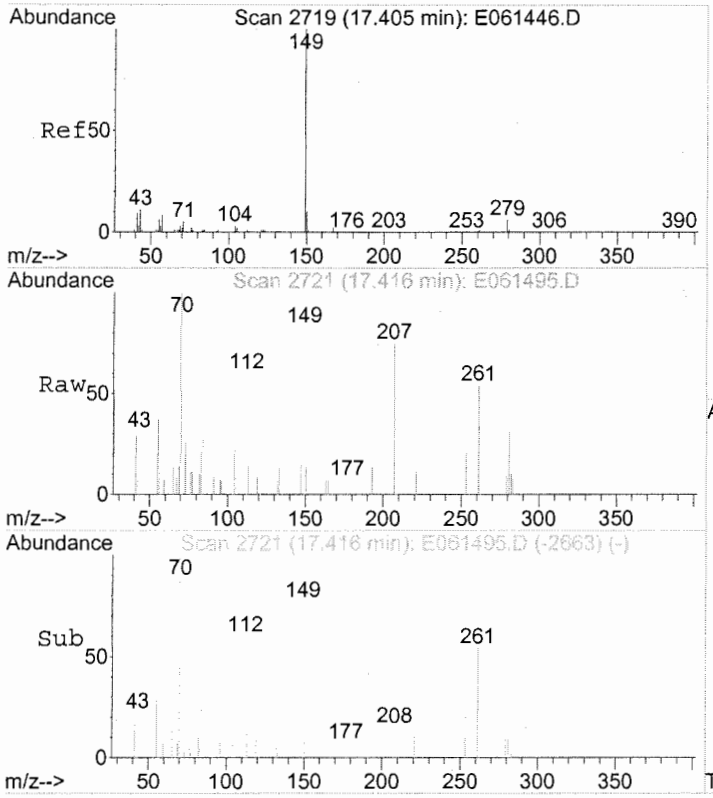


#78
Bis(2-ethylhexyl)phthalate
Concen: 7.11 mg/L
RT: 16.11 min Scan# 2477
Delta R.T. -0.04 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:149 Resp: 52628

Ion	Ratio	Lower	Upper
149	100		
167	30.4	23.5	35.3
279	8.1	6.1	9.1

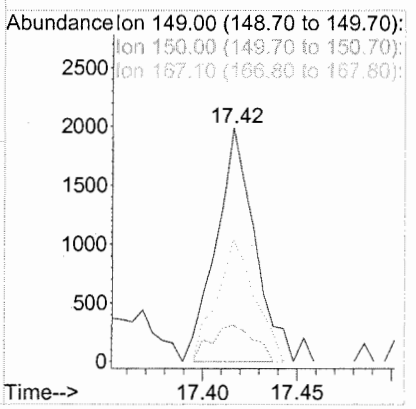


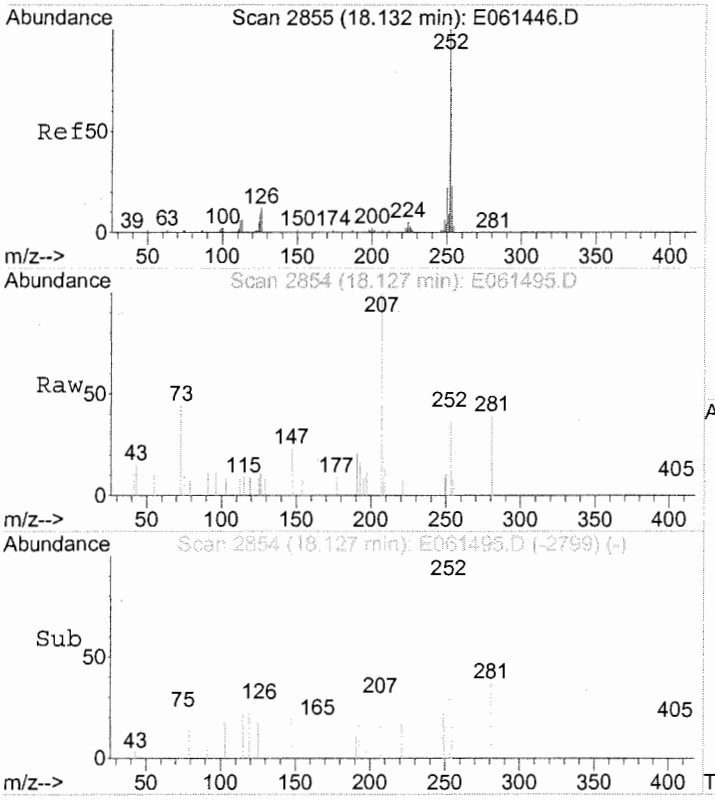


#81
Di-n-octylphthalate
Concen: 0.28 mg/L
RT: 17.42 min Scan# 2721
Delta R.T. 0.01 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:149 Resp: 2895

Ion	Ratio	Lower	Upper
149	100		
150	17.0	7.7	11.5#
167	50.7	1.4	2.0#

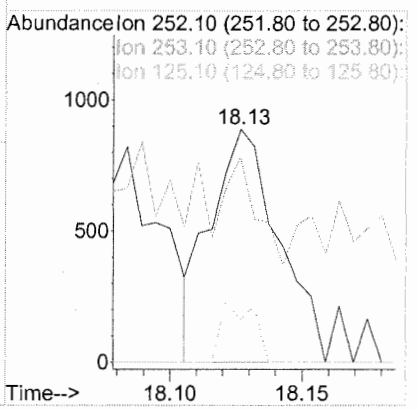


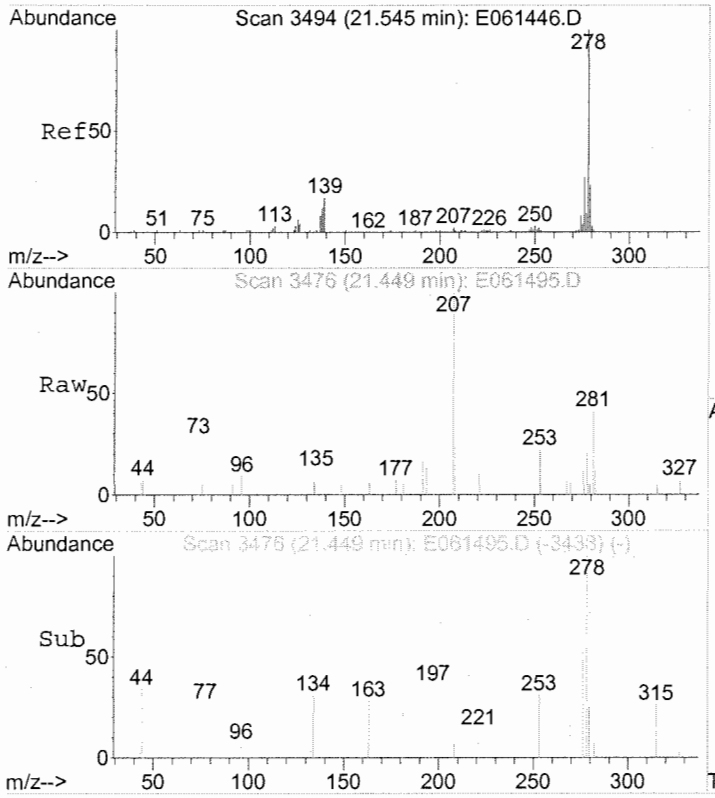


#82
Benzo(b)fluoranthene
Concen: 0.24 mg/L
RT: 18.13 min Scan# 2854
Delta R.T. -0.01 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:252 Resp: 1591

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.4	26.2
125	12.2	7.1	10.7#

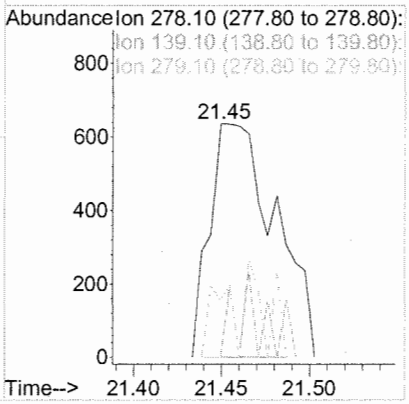


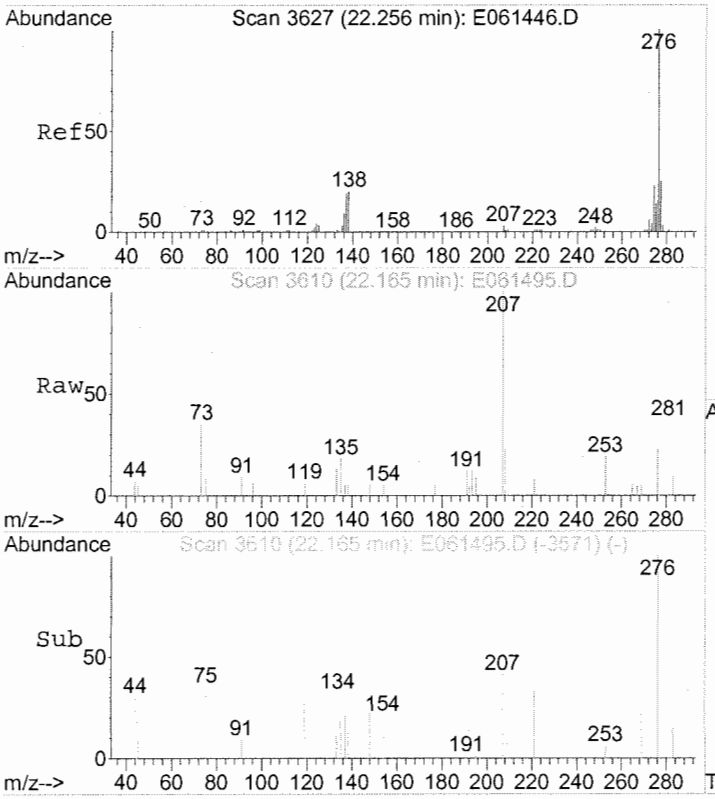


#86
Dibenz(a,h)anthracene
Concen: 0.45 mg/L
RT: 21.45 min Scan# 3476
Delta R.T. -0.10 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:278 Resp: 1642

Ion	Ratio	Lower	Upper
278	100		
139	3.8	12.2	18.2#
279	10.7	17.8	26.8#

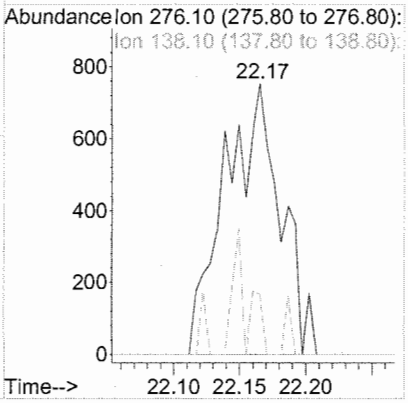




#87
Benzo(g,h,i)perylene
Concen: 0.62 mg/L
RT: 22.17 min Scan# 3610
Delta R.T. -0.09 min
Lab File: E061495.D
Acq: 25 Oct 2006 1:26 pm

Tgt Ion:276 Resp: 2200

Ion	Ratio	Lower	Upper
276	100		
138	12.6	17.2	25.8#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	D0601625
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75176	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061496.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 13:59	**Quant Date:**	10/25/2006 14:43	**Vial:**	11
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-005			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	0.00?	152	210642	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	808973	40.00	OK
3	Acenaphthene-d10	9.75	0.00?	164	494708	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	794435	40.00	OK
5	Chrysene-d12	15.96	0.00?	240	398080	40.00	OK
6	Perylene-d12	18.84	0.00?	264	247494	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.61	0.00	0.00	112	145986	25.80	52	23-115	OK	
1	Phenol-d5	5.55	0.00	0.00	99	165096	21.84	44	23-121	OK	
2	Nitrobenzene-d5	6.67	0.00	0.00	82	298495	42.14	84	42-122	OK	
3	2-Fluorobiphenyl	8.90	0.01	0.00	172	624729	41.99	84	47-110	OK	
4	2,4,6-Tribromophenol	10.73	-0.01	0.00	330	81675	45.31	91	31-112	OK	
5	Terphenyl-d14	13.97	0.00	0.00	244	308809	29.25	59	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.02	0.02	0.00	88	4439	1.28	4.7	J	
1	N-Nitrosodimethylamine				42	0		1.8	U	
1	Pyridine				79	0		1.3	U	
1	Phenol				94	0**d**		0.41	U	
1	Aniline				93	0		1.3	U	
1	Bis(2-chloroethyl) Ether				93	0		0.89	U	
1	2-Chlorophenol				128	0		0.89	U	
1	1,3-Dichlorobenzene				146	0		0.75	U	
1	1,4-Dichlorobenzene				146	0		0.89	U	
1	Benzyl alcohol				108	0		0.82	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analytc concentratiou above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptancc
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061496.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 13:59	**Quant Date:**	10/25/2006 14:43	**Vial:**	11
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-005			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.63	U	
1	2-Methylphenol				108	0		1.2	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.89	U	
1	4-Methylphenol				107	0		1.1	U	
1	N-Nitrosodi-n-propylamine				70	0		1.1	U	
1	Hexachloroethane				117	0		9.3	U	
2	Nitrobenzene				77	0		0.97	U	
2	Isophorone				82	0		1.2	U	
2	2-Nitrophenol				139	0		0.97	U	
2	2,4-Dimethylphenol				122	0		3.1	U	
2	Benzoic acid				122	0**d**		75	U	
2	bis(2-Chloroethoxy)methane				93	0		1.2	U	
2	2,4-Dichlorophenol				162	0		0.86	U	
2	1,2,4-Trichlorobenzene				180	0		0.75	U	
2	Naphthalene				128	0		0.78	U	
2	4-Chloroaniline				127	0		1.4	U	
2	Hexachlorobutadiene				225	0		0.82	U	
2	4-Chloro-3-methylphenol				107	0		1.2	U	
2	2-Methylnaphthalene				142	0		0.67	U	
3	Hexachlorocyclopentadiene				237	0		6.7	U	
3	2,4,6-Trichlorophenol				196	0		1.0	U	
3	2,4,5-Trichlorophenol				196	0		1.1	U	
3	2-Chloronaphthalene				162	0		0.82	U	
3	2-Nitroaniline				65	0		1.0	U	
3	Dimethyl Phthalate				163	0		0.97	U	
3	Acenaphthylene				152	0		0.86	U	
3	2,6-Dinitrotoluene				165	0		1.2	U	
3	3-Nitroaniline				138	0		1.1	U	
3	Acenaphthene				154	0		0.56	U	
3	2,4-Dinitrophenol				184	0**d**		38	U	
3	4-Nitrophenol				109	0		75	U	
3	Dibenzofuran				168	0		0.82	U	
3	2,4-Dinitrotoluene				165	0		1.2	U	
3	Fluorene				166	0		0.82	U	
3	Diethyl Phthalate	10.30	-0.01	0.00	149	9086	0.6100	2.3	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.78	U	
3	4-Nitroaniline				138	0**d**		1.4	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.75	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.86	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.67	U	
4	Hexachlorobenzene				284	0		0.78	U	
4	Pentachlorophenol				266	0		2.4	U	
4	Phenanthrene				178	0		0.82	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blauk
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061496.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 13:59	**Quant Date:**	10/25/2006 14:43	**Vial:**	11
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-005			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.78	U	
4	Di-n-butyl Phthalate				149	0**d**		0.93	U	
4	Fluoranthene				202	0		0.78	U	
5	Pyrene				202	0		1.3	U	
5	Butyl Benzyl Phthalate				149	0**d**		1.8	U	
5	3,3'-Dichlorobenzidine				252	0		3.2	U	
5	Benz(a)anthracene				228	0		0.78	U	
5	Chrysene				228	0		0.82	U	
5	Bis(2-ethylhexyl) Phthalate	16.11	-0.01	0.00	149	420081	55.95	210		
6	Di-n-octyl Phthalate				149	0**d**		1.3	U	
6	Benzo(b)fluoranthene				252	0		1.6	U	
6	Benzo(k)fluoranthene				252	0		1.2	U	
6	Benzo(a)pyrene				252	0**d**		2.0	U	
6	Indeno(1,2,3-cd)pyrene				276	0**d**		2.5	U	
6	Dibenz(a,h)anthracene				278	0**d**		2.3	U	
6	Benzo(g,h,i)perylene				276	0**d**		2.8	U	

Prep Amount:	270 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061496.D Vial: 11
Acq On : 25 Oct 2006 1:59 pm Operator: SC
Sample : D0601625-005 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 14:39:58 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

EC 10/26/06

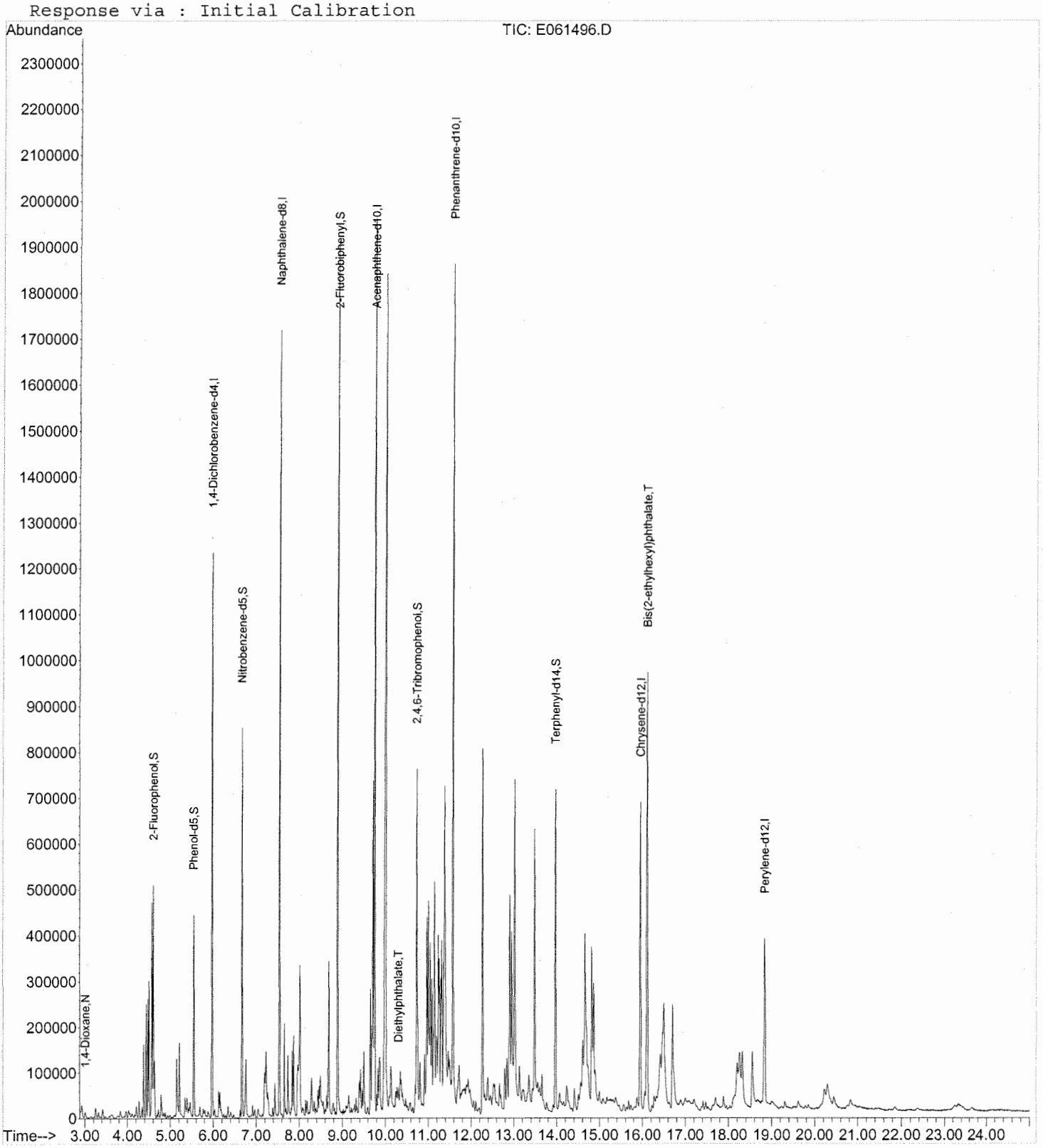
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	210642	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	808973	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	494708	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	794435	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	398080	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	247494	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	145986	25.80	mg/L	0.00
Spiked Amount 50.000			Recovery =	51.60%		
7) Phenol-d5	5.55	99	165096	21.84	mg/L	-0.01
Spiked Amount 50.000			Recovery =	43.68%		
23) Nitrobenzene-d5	6.67	82	298495	42.14	mg/L	-0.01
Spiked Amount 50.000			Recovery =	84.28%		
41) 2-Fluorobiphenyl	8.90	172	624729	41.99	mg/L	-0.02
Spiked Amount 50.000			Recovery =	83.98%		
61) 2,4,6-Tribromophenol	10.73	330	81675	45.31	mg/L	-0.02
Spiked Amount 50.000			Recovery =	90.62%		
73) Terphenyl-d14	13.97	244	308809	29.25	mg/L	-0.03
Spiked Amount 50.000			Recovery =	58.50%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	4439	1.28	mg/L	93
54) Diethylphthalate	10.30	149	9086	0.61	mg/L	99
78) Bis(2-ethylhexyl)phthalate	16.11	149	420081	55.95	mg/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061496.D Vial: 11
Acq On : 25 Oct 2006 1:59 pm Operator: SC
Sample : D0601625-005 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 14:43 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061496.D Vial: 11
Acq On : 25 Oct 2006 1:59 pm Operator: SC
Sample : D0601625-005 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 14:39:58 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

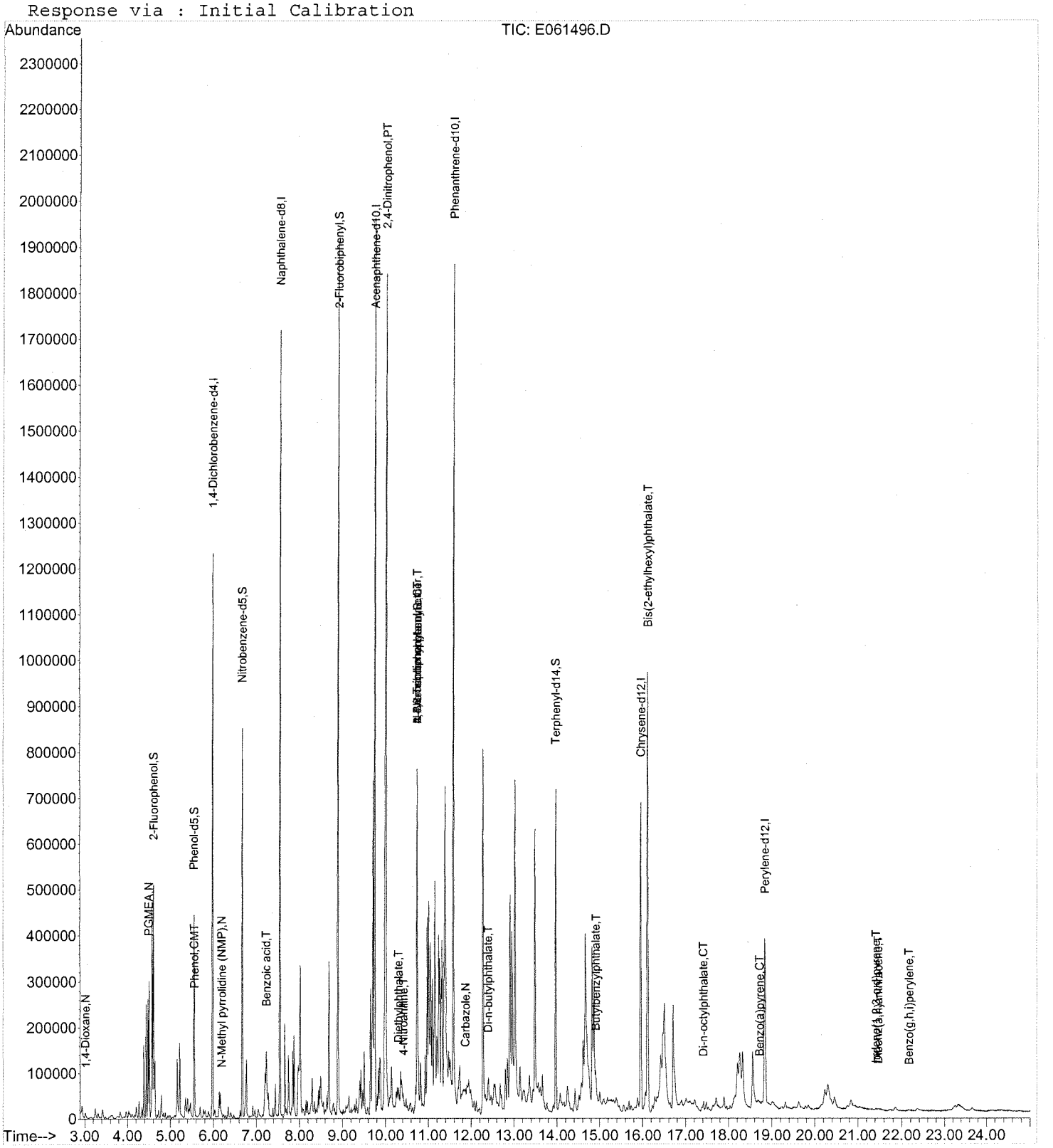
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	210642	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	808973	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	494708	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	794435	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	398080	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	247494	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	145986	25.80	mg/L	0.00
Spiked Amount 50.000			Recovery =	51.60%		
7) Phenol-d5	5.55	99	165096	21.84	mg/L	-0.01
Spiked Amount 50.000			Recovery =	43.68%		
23) Nitrobenzene-d5	6.67	82	298495	42.14	mg/L	-0.01
Spiked Amount 50.000			Recovery =	84.28%		
41) 2-Fluorobiphenyl	8.90	172	624729	41.99	mg/L	-0.02
Spiked Amount 50.000			Recovery =	83.98%		
61) 2,4,6-Tribromophenol	10.73	330	81675	45.31	mg/L	-0.02
Spiked Amount 50.000			Recovery =	90.62%		
73) Terphenyl-d14	13.97	244	308809	29.25	mg/L	-0.03
Spiked Amount 50.000			Recovery =	58.50%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	4439	1.28	mg/L	93
5) PGMEA	4.50	43	7208	0.72	mg/L #	15
8) Phenol	5.56	94	3116	0.38	mg/L #	1
16) N-Methyl pyrrolidine (NMP)	6.20	99	1818	0.43	mg/L	95
28) Benzoic acid	7.24	122	5364	1.37	mg/L	90
49) 2,4-Dinitrophenol	10.01	184	331	6.95	mg/L #	1
54) Diethylphthalate	10.30	149	9086	0.61	mg/L	99
56) 4-Nitroaniline	10.42	138	530	0.20	mg/L #	5
59) N-Nitrosodiphenylamine	10.73	169	3399	0.33	mg/L #	47
62) 4-Bromophenyl phenyl ether	10.73	248	5478	1.23	mg/L #	1
67) Carbazole	11.87	167	68	4.55	mg/L #	18
68) Di-n-butylphthalate	12.39	149	6438	0.29	mg/L #	97
74) Butylbenzylphthalate	14.92	149	1275	0.21	mg/L #	68
78) Bis(2-ethylhexyl)phthalate	16.11	149	420081	55.95	mg/L	99
81) Di-n-octylphthalate	17.42	149	3848	0.31	mg/L #	79
84) Benzo(a)pyrene	18.72	252	1859	0.29	mg/L #	81
85) Indeno(1,2,3-c,d)pyrene	21.41	276	1980	0.38	mg/L #	84
86) Dibenz(a,h)anthracene	21.47	278	1878	0.42	mg/L #	75
87) Benzo(g,h,i)perylene	22.16	276	2153	0.50	mg/L #	66

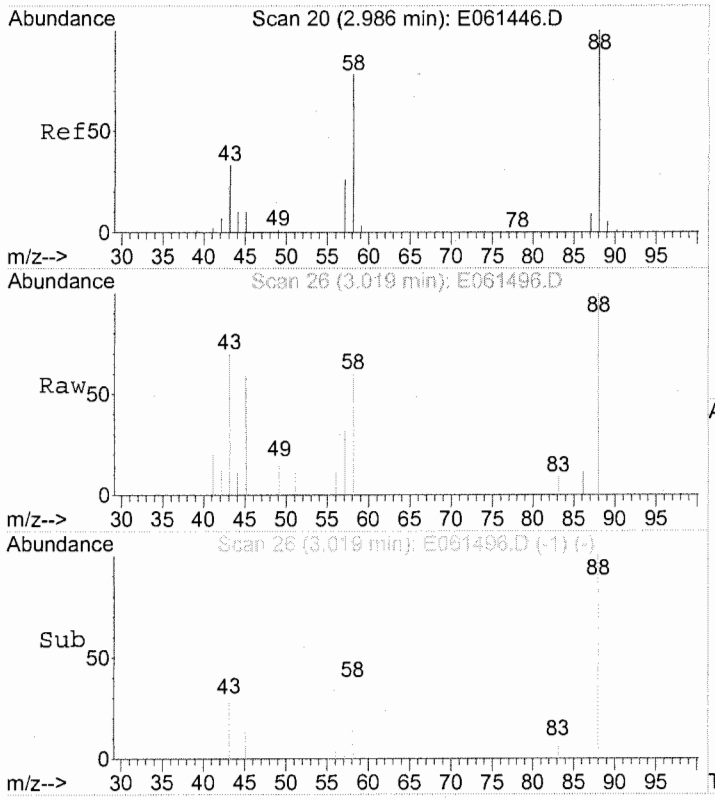
(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061496.D BA061011.M Wed Oct 25 14:40:00 2006

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061496.D Vial: 11
Acq On : 25 Oct 2006 1:59 pm Operator: SC
Sample : D0601625-005 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 14:39 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

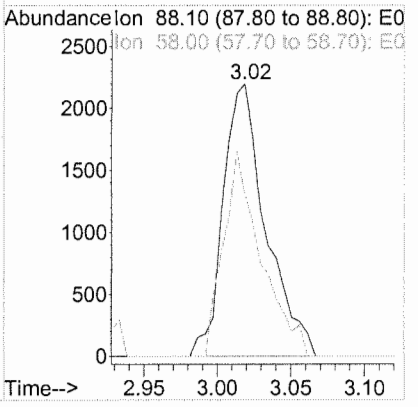


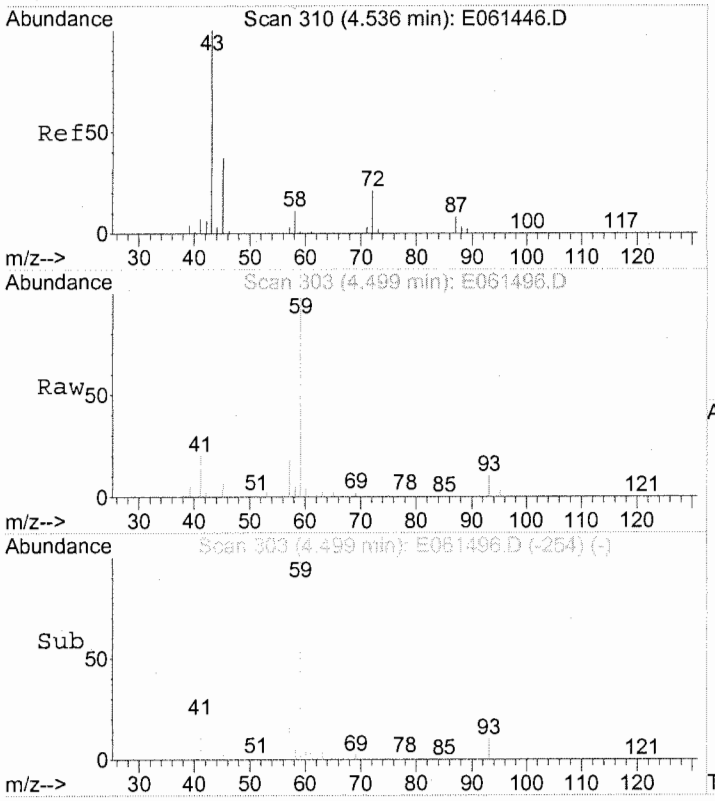


#2
1,4-Dioxane
Concen: 1.28 mg/L
RT: 3.02 min Scan# 26
Delta R.T. 0.03 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion: 88 Resp: 4439

Ion	Ratio	Lower	Upper
88	100		
58	66.5	57.6	86.4

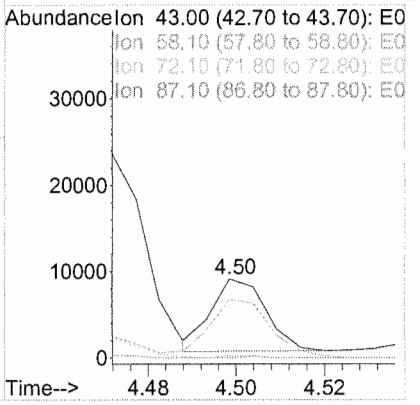


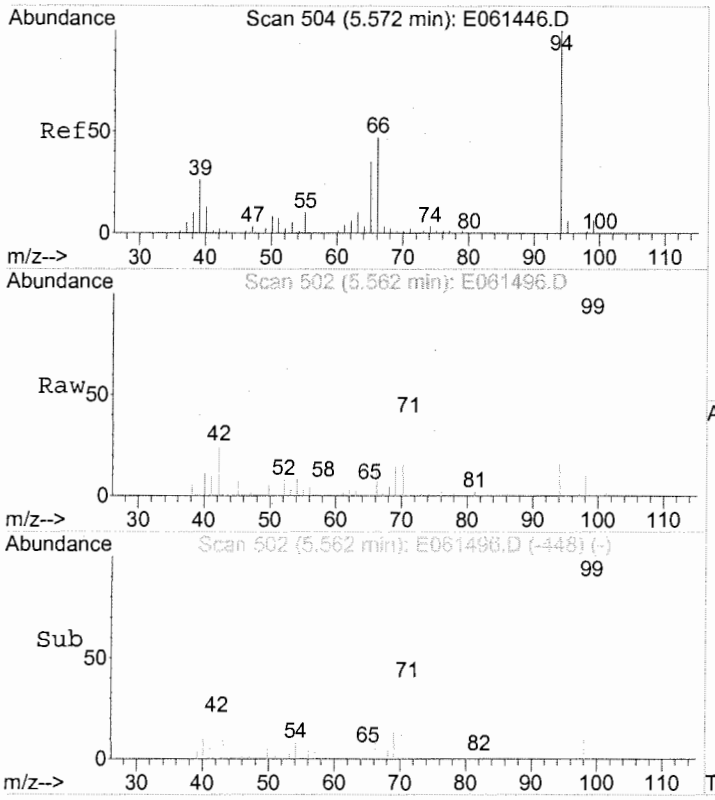


#5
PGMEA
Concen: 0.72 mg/L
RT: 4.50 min Scan# 303
Delta R.T. -0.04 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion: 43 Resp: 7208

Ion	Ratio	Lower	Upper
43	100		
58	91.8	9.4	14.2#
72	2.2	16.8	25.2#
87	0.0	6.6	10.0#

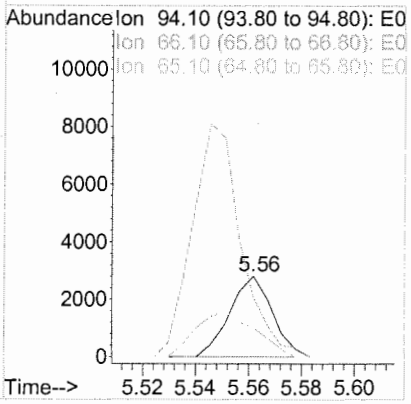


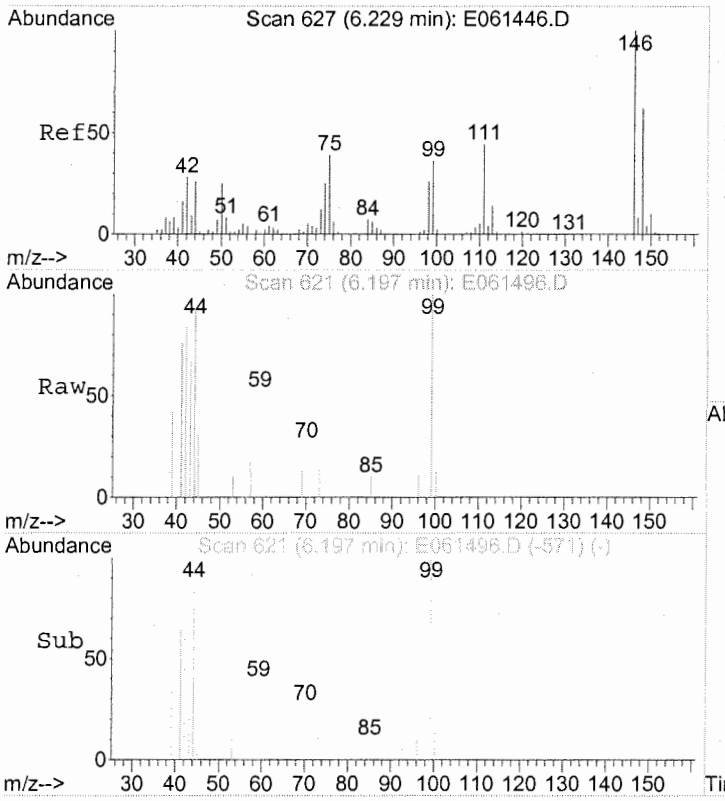


#8
Phenol
Concen: 0.38 mg/L
RT: 5.56 min Scan# 502
Delta R.T. -0.01 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion: 94 Resp: 3116

Ion	Ratio	Lower	Upper
94	100		
66	331.5	36.4	54.6#
65	77.5	26.6	39.8#

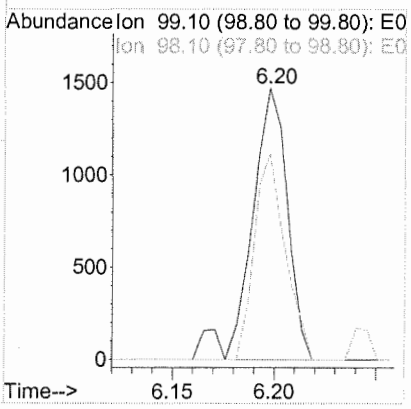


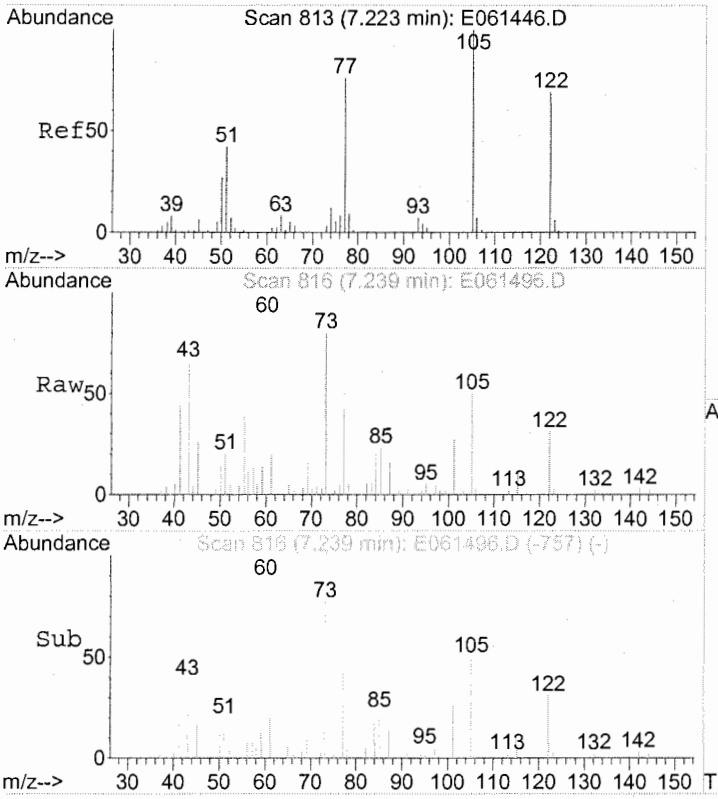


#16
N-Methyl pyrrolidine (NMP)
Concen: 0.43 mg/L
RT: 6.20 min Scan# 621
Delta R.T. -0.03 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion: 99 Resp: 1818

Ion	Ratio	Lower	Upper
99	100		
98	65.5	55.9	83.9

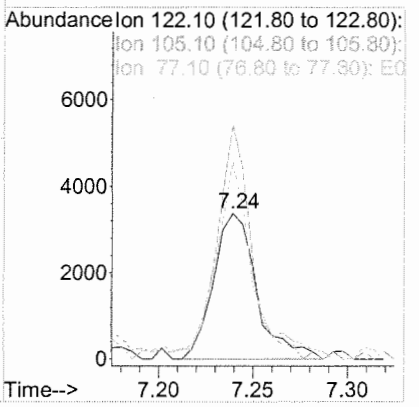


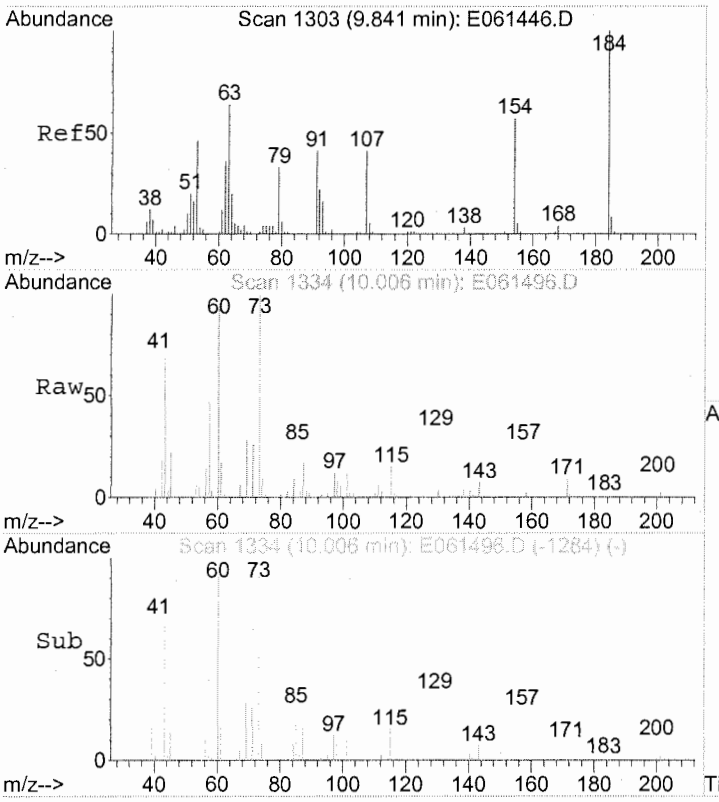


#28
Benzoic acid
Concen: 1.37 mg/L
RT: 7.24 min Scan# 816
Delta R.T. 0.02 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:122 Resp: 5364

Ion	Ratio	Lower	Upper
122	100		
105	128.4	110.7	166.1
77	117.4	84.6	126.8

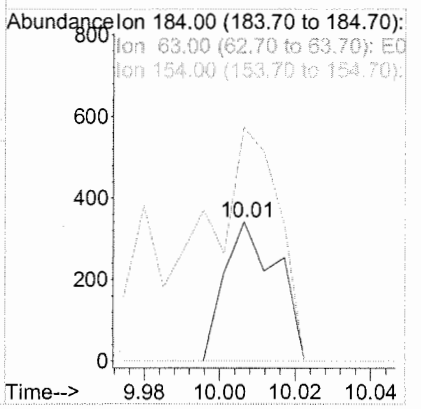


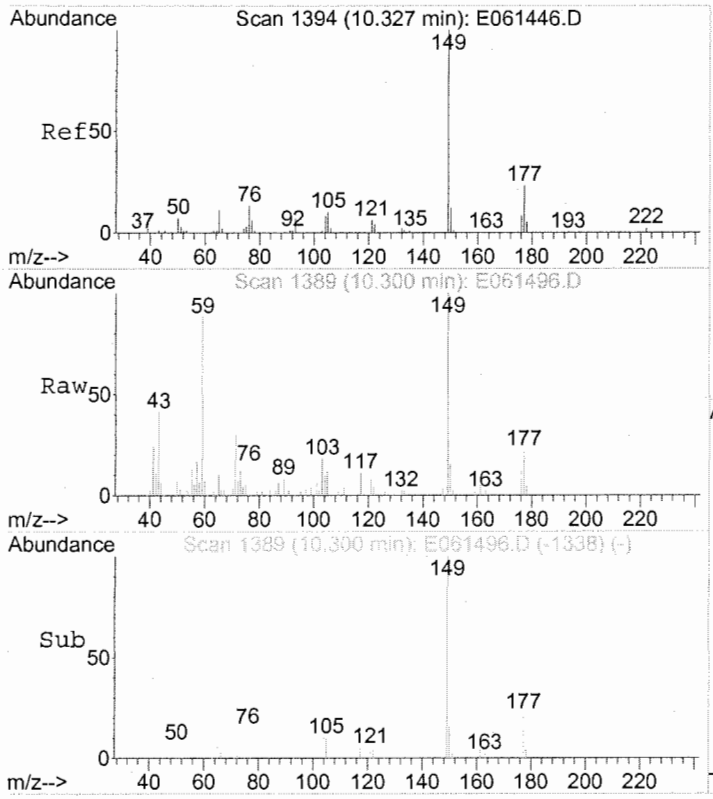


#49
2,4-Dinitrophenol
Concen: 6.95 mg/L
RT: 10.01 min Scan# 1334
Delta R.T. 0.17 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:184 Resp: 331

Ion	Ratio	Lower	Upper
184	100		
63	199.1	43.4	65.0#
154	0.0	42.9	64.3#

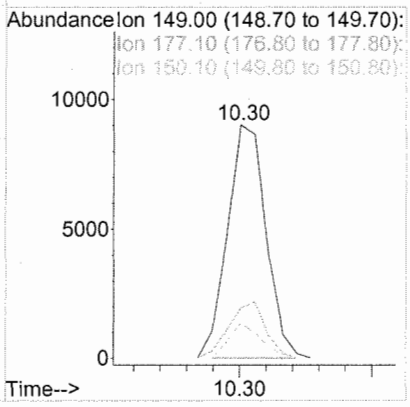


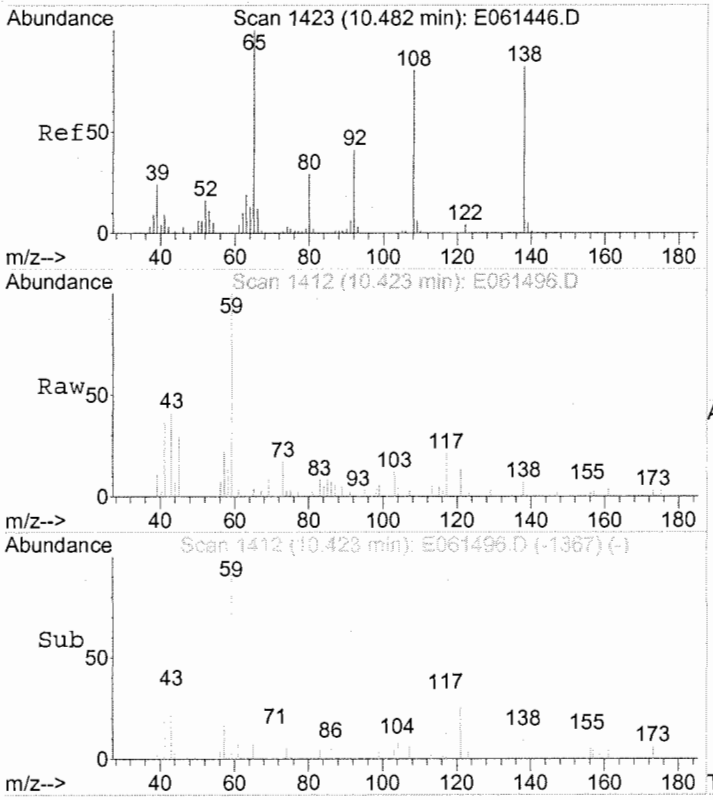


#54
Diethylphthalate
Concen: 0.61 mg/L
RT: 10.30 min Scan# 1389
Delta R.T. -0.03 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:149 Resp: 9086

Ion	Ratio	Lower	Upper
149	100		
177	23.1	19.0	28.4
150	12.6	9.9	14.9

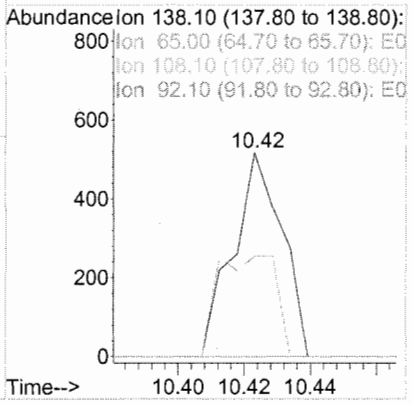


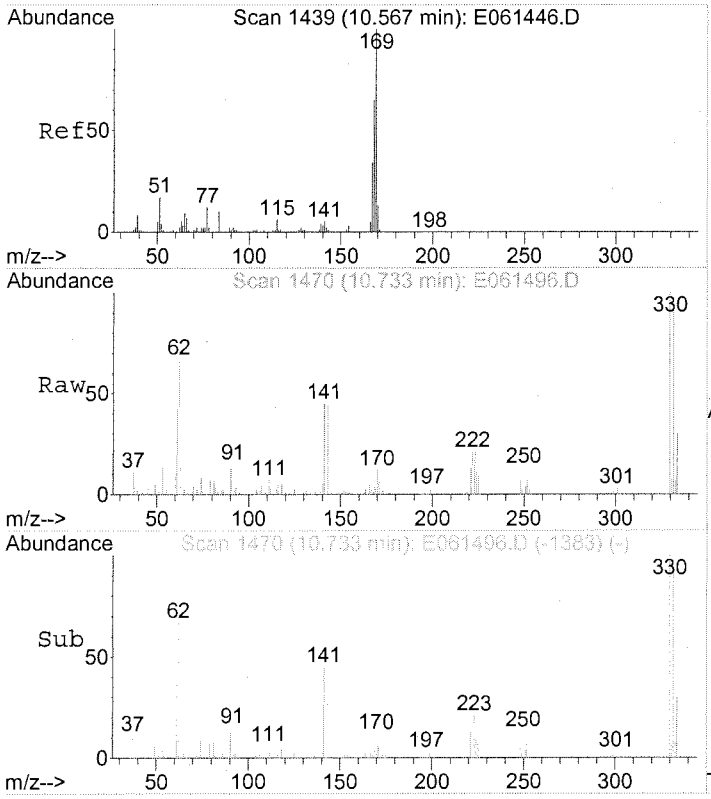


#56
4-Nitroaniline
Concen: 0.20 mg/L
RT: 10.42 min Scan# 1412
Delta R.T. -0.06 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:138 Resp: 530

Ion	Ratio	Lower	Upper
138	100		
65	0.0	88.3	132.5#
108	0.0	71.9	107.9#
92	0.0	38.9	58.3#

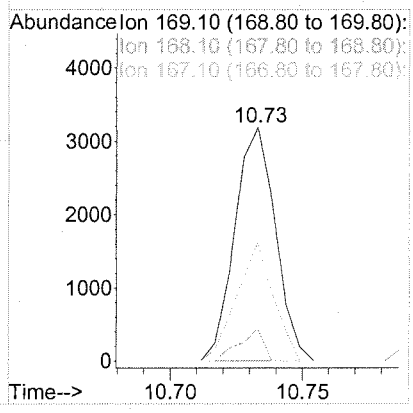


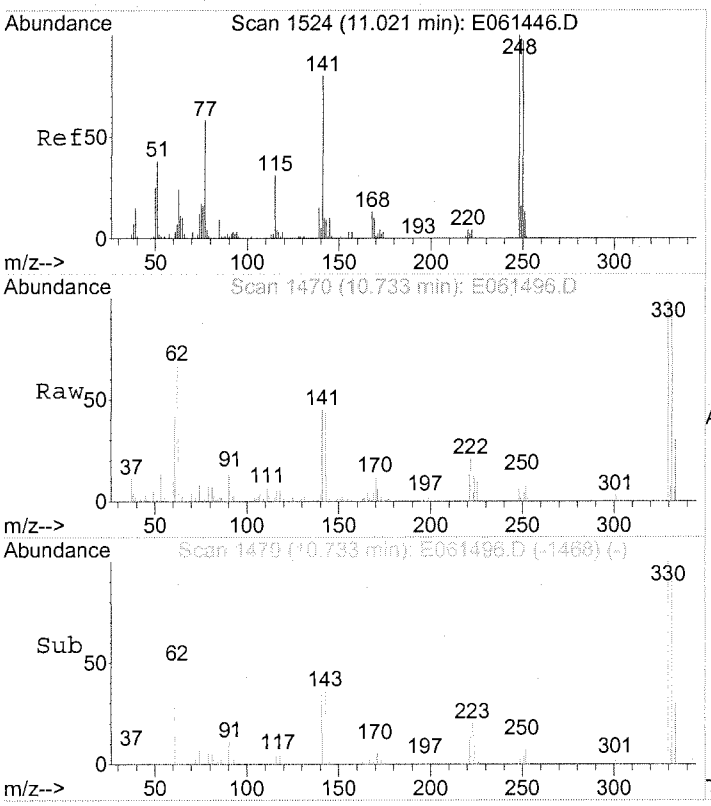


#59
N-Nitrosodiphenylamine
Concen: 0.33 mg/L
RT: 10.73 min Scan# 1470
Delta R.T. 0.17 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:169 Resp: 3399

Ion	Ratio	Lower	Upper
169	100		
168	8.1	51.3	76.9#
167	46.1	27.7	41.5#

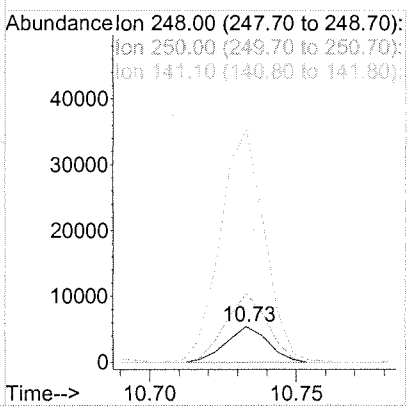


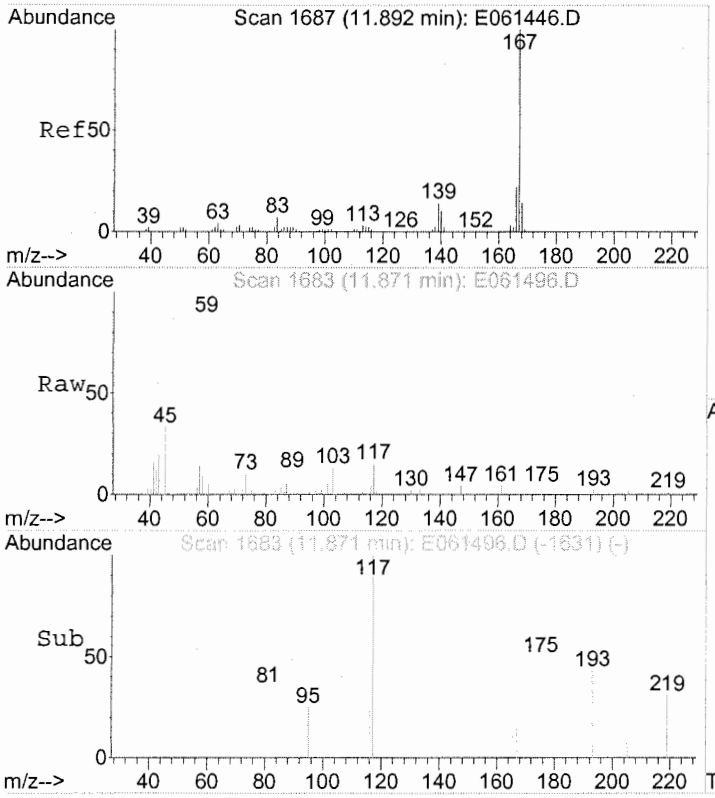


#62
4-Bromophenyl phenyl ether
Concen: 1.23 mg/L
RT: 10.73 min Scan# 1470
Delta R.T. -0.29 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:248 Resp: 5478

Ion	Ratio	Lower	Upper
248	100		
250	191.2	77.0	115.6#
141	673.5	55.9	83.9#

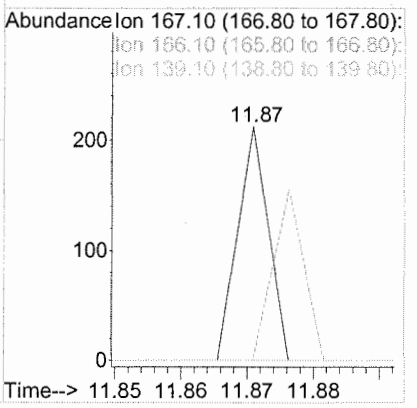


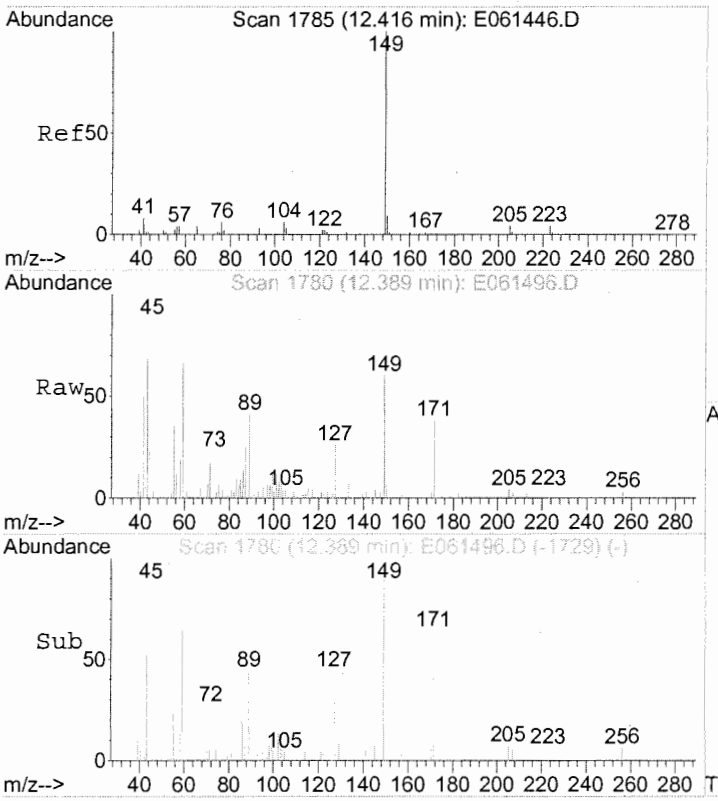


#67
Carbazole
Concen: 4.55 mg/L
RT: 11.87 min Scan# 1683
Delta R.T. -0.02 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:167 Resp: 68

Ion	Ratio	Lower	Upper
167	100		
166	73.5	17.0	25.4#
139	0.0	10.3	15.5#

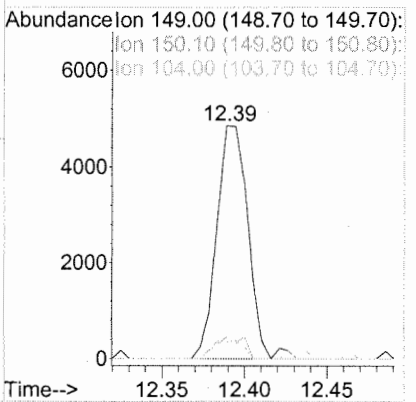


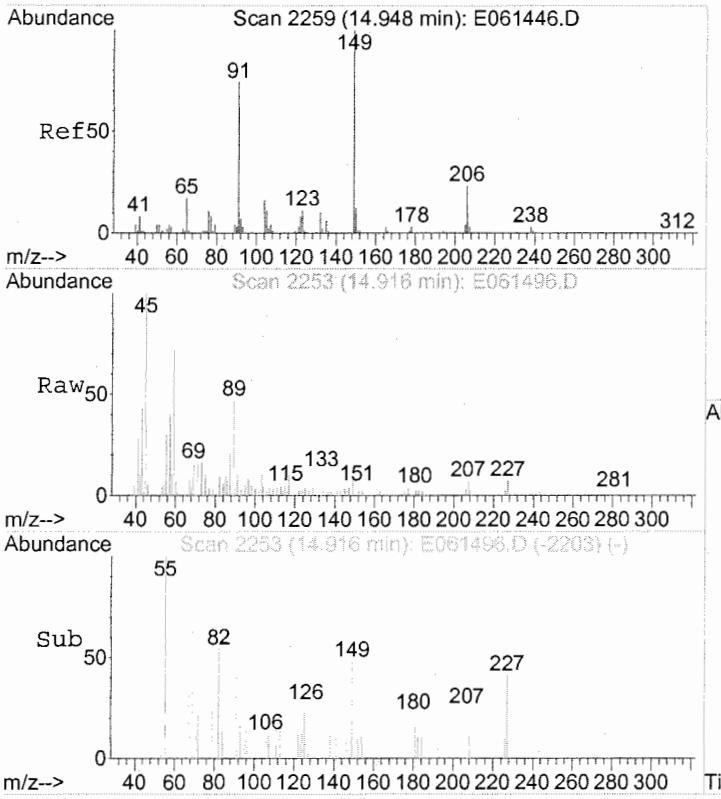


#68
Di-n-butylphthalate
Concen: 0.29 mg/L
RT: 12.39 min Scan# 1780
Delta R.T. -0.03 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:149 Resp: 6438

Ion	Ratio	Lower	Upper
149	100		
150	8.5	7.2	10.8
104	7.6	4.6	6.8#

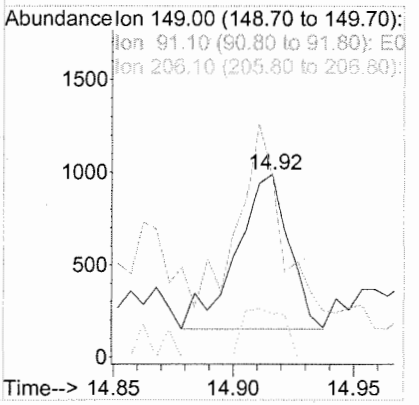


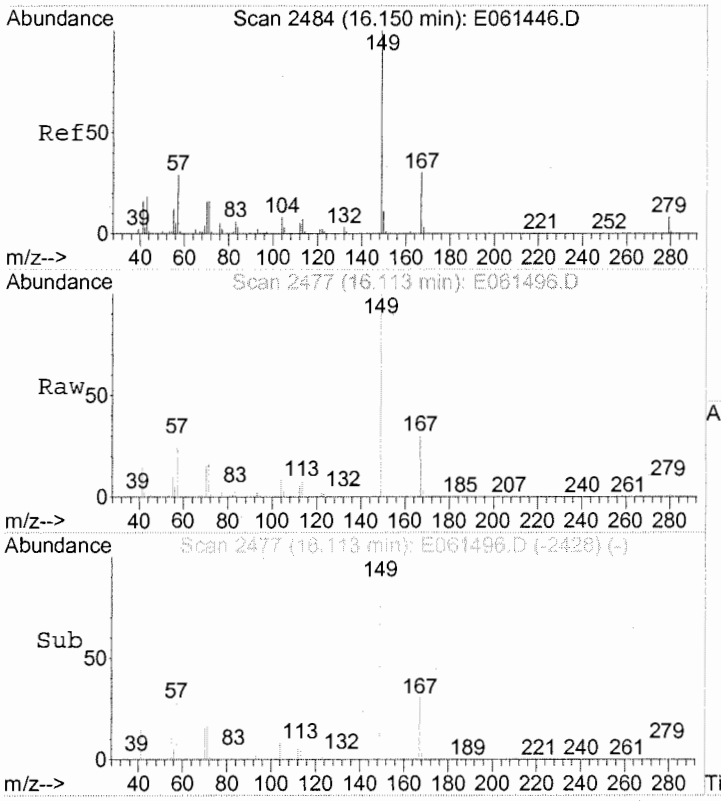


#74
Butylbenzylphthalate
Concen: 0.21 mg/L
RT: 14.92 min Scan# 2253
Delta R.T. -0.03 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:149 Resp: 1275

Ion	Ratio	Lower	Upper
149	100		
91	104.5	55.8	83.8#
206	24.6	18.9	28.3

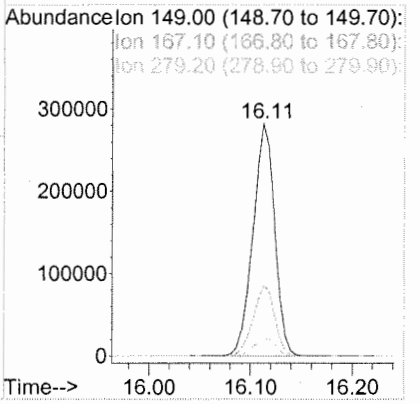


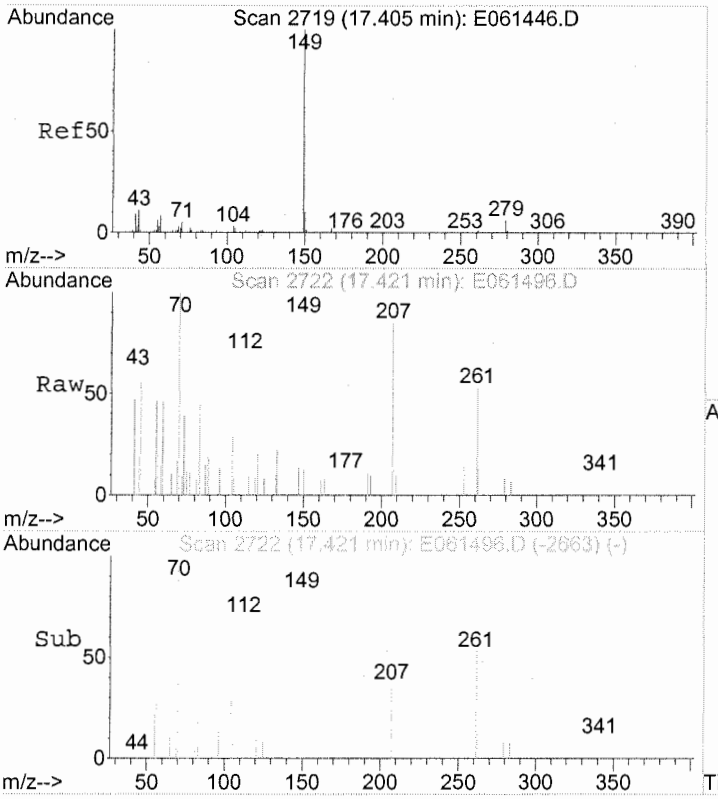


#78
Bis(2-ethylhexyl)phthalate
Concen: 55.95 mg/L
RT: 16.11 min Scan# 2477
Delta R.T. -0.04 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:149 Resp: 420081

Ion	Ratio	Lower	Upper
149	100		
167	30.3	23.5	35.3
279	7.9	6.1	9.1

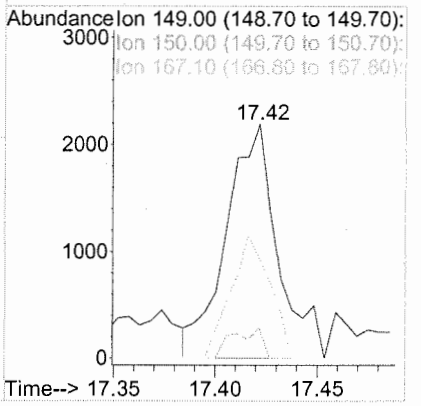


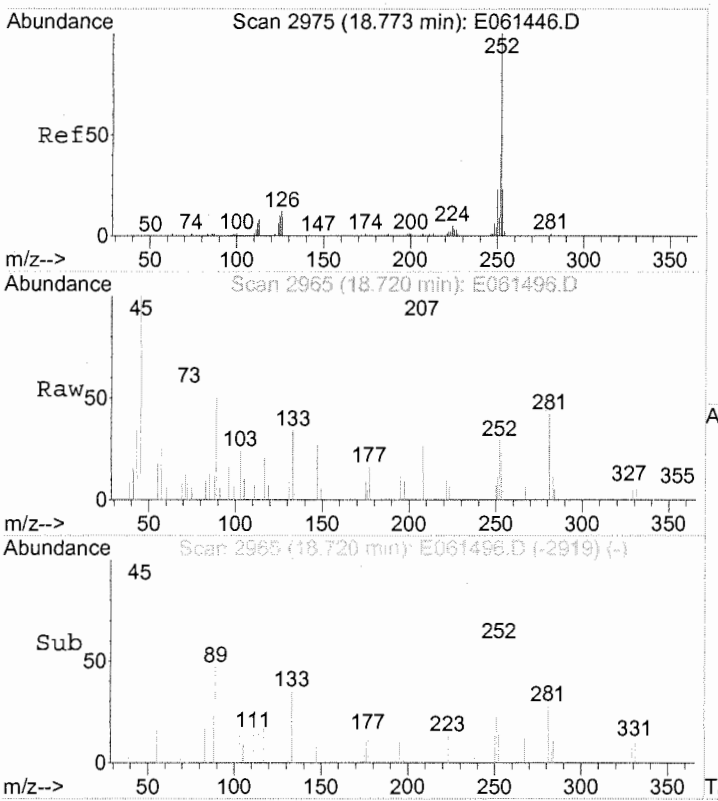


#81
Di-n-octylphthalate
Concen: 0.31 mg/L
RT: 17.42 min Scan# 2722
Delta R.T. 0.02 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:149 Resp: 3848

Ion	Ratio	Lower	Upper
149	100		
150	7.5	7.7	11.5#
167	40.0	1.4	2.0#

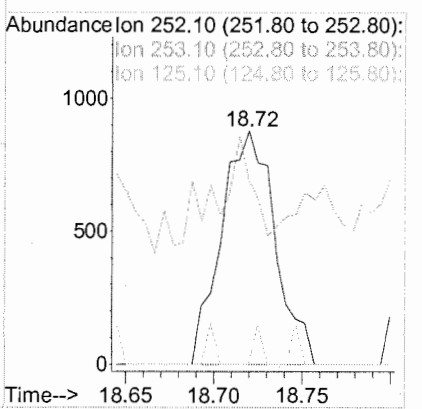


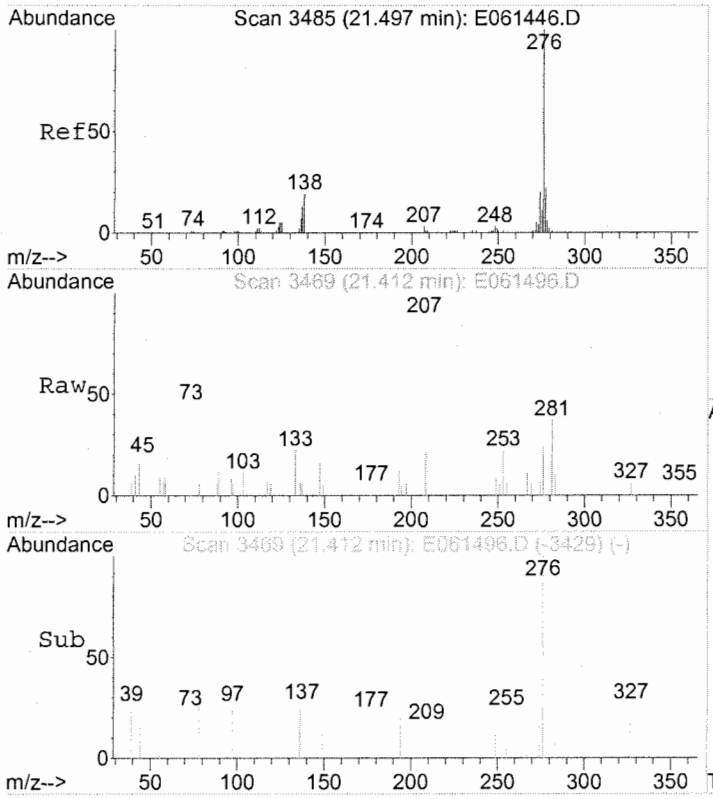


#84
Benzo(a)pyrene
Concen: 0.29 mg/L
RT: 18.72 min Scan# 2965
Delta R.T. -0.05 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:252 Resp: 1859

Ion	Ratio	Lower	Upper
252	100		
253	30.2	17.3	25.9#
125	2.6	7.7	11.5#

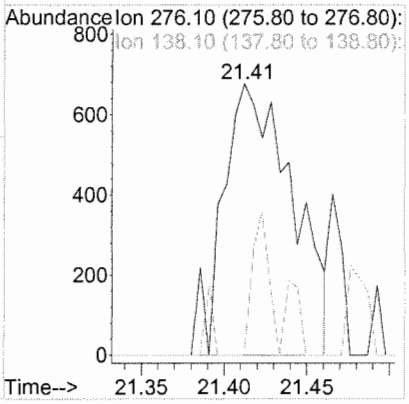


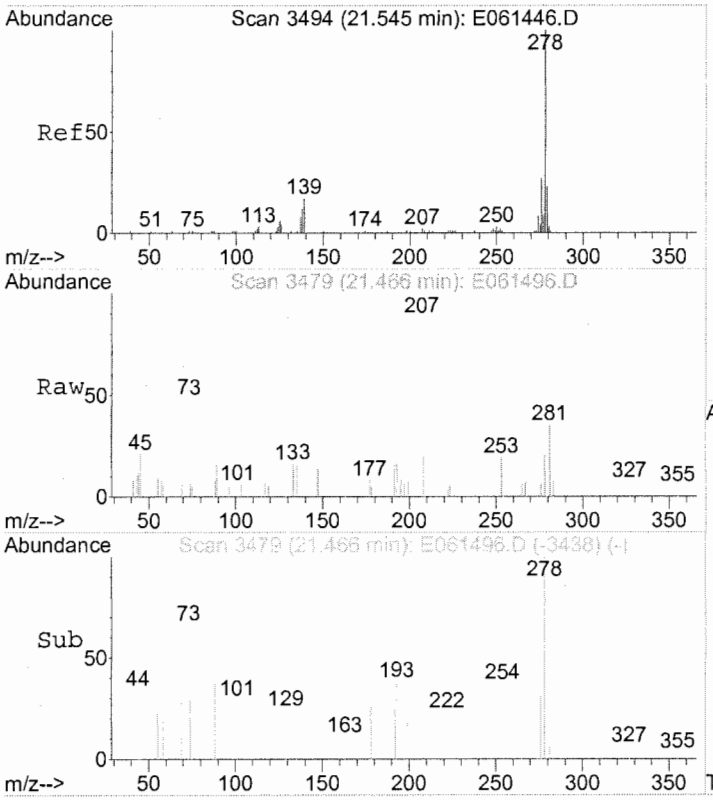


#85
Indeno(1,2,3-c,d)pyrene
Concen: 0.38 mg/L
RT: 21.41 min Scan# 3469
Delta R.T. -0.09 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:276 Resp: 1980

Ion	Ratio	Lower	Upper
276	100		
138	12.6	15.8	23.8#

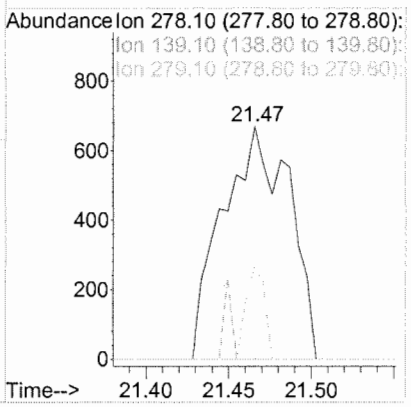


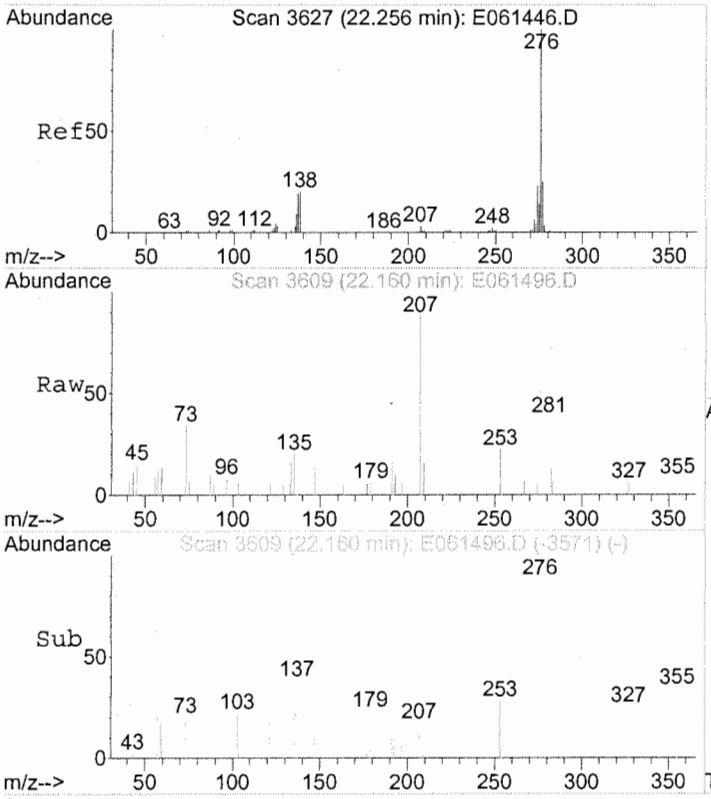


#86
Dibenz(a,h)anthracene
Concen: 0.42 mg/L
RT: 21.47 min Scan# 3479
Delta R.T. -0.08 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:278 Resp: 1878

Ion	Ratio	Lower	Upper
278	100		
139	4.0	12.2	18.2#
279	11.1	17.8	26.8#

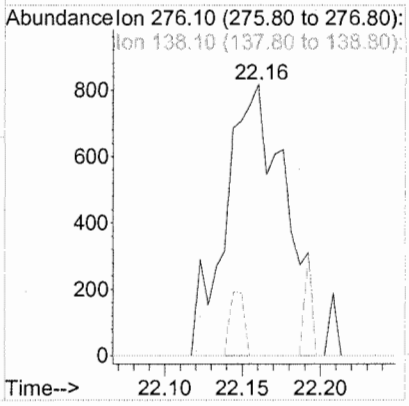




#87
Benzo(g,h,i)perylene
Concen: 0.50 mg/L
RT: 22.16 min Scan# 3609
Delta R.T. -0.10 min
Lab File: E061496.D
Acq: 25 Oct 2006 1:59 pm

Tgt Ion:276 Resp: 2153

Ion	Ratio	Lower	Upper
276	100		
138	5.7	17.2	25.8#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	D0601625
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75177	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061497.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 14:31	**Quant Date:**	10/25/2006 15:59	**Vial:**	12
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-007			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	0.00?	152	257479	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	992051	40.00	OK
3	Acenaphthene-d10	9.75	0.00?	164	617356	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	1005951	40.00	OK
5	Chrysene-d12	15.96	0.00?	240	486487	40.00	OK
6	Perylene-d12	18.84	0.00?	264	309868	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
I	2-Fluorophenol	4.61	0.00	0.00	112	152101	21.99	44	23-115	OK	
1	Phenol-d5	5.55	0.00	0.00	99	145693	15.77	32	23-121	OK	
2	Nitrobenzene-d5	6.67	0.00	0.00	82	354388	40.80	82	42-122	OK	
3	2-Fluorobiphenyl	8.90	0.01	0.00	172	777248	41.86	84	47-110	OK	
4	2,4,6-Tribromophenol	10.73	-0.01	0.00	330	102169	44.77	90	31-112	OK	
5	Terphenyl-d14	13.97	0.00	0.00	244	502219	38.93	78	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.02	0.02	0.00	88	3918891	922.14	880	E	NR
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
I	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061497.D		**Instrument:** MSE
Acqu Date:	10/25/2006 14:31	**Quant Date:** 10/25/2006 15:59	**Vial:** 12
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0601625-007		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0		0.83	U	
2	Benzoic acid				122	0d		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0d		0.30	U	
3	3-Nitroaniline				138	0		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.30	-0.01	0.00	149	7068	0.3800	0.36	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0d		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061497.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 14:31	**Quant Date:**	10/25/2006 15:59	**Vial:**	12
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-007			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.39		0.00	149	7371	0.2600	0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0**d**		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.11	-0.01	0.00	149	12518	1.36	1.3	J	
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0		0.74	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061497.D Vial: 12
Acq On : 25 Oct 2006 2:31 pm Operator: SC
Sample : D0601625-007 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 15:57:41 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/26/06

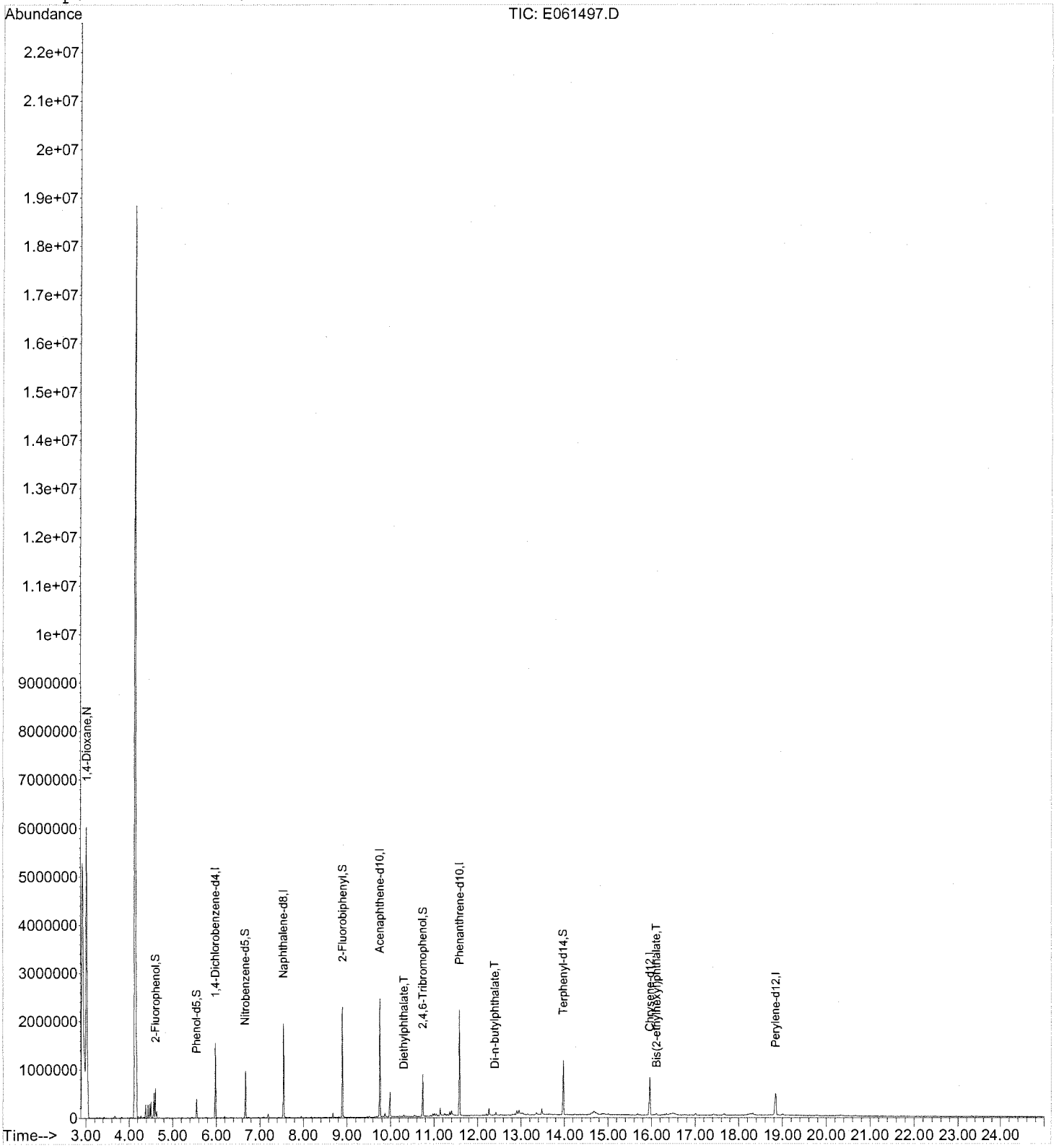
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	257479	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	992051	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	617356	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	1005951	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	486487	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	309868	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	152101	21.99	mg/L	0.00
Spiked Amount 50.000			Recovery =	43.98%		
7) Phenol-d5	5.55	99	145693	15.77	mg/L	-0.01
Spiked Amount 50.000			Recovery =	31.54%		
23) Nitrobenzene-d5	6.67	82	354388	40.80	mg/L	-0.01
Spiked Amount 50.000			Recovery =	81.60%		
41) 2-Fluorobiphenyl	8.90	172	777248	41.86	mg/L	-0.02
Spiked Amount 50.000			Recovery =	83.72%		
61) 2,4,6-Tribromophenol	10.73	330	102169	44.77	mg/L	-0.02
Spiked Amount 50.000			Recovery =	89.54%		
73) Terphenyl-d14	13.97	244	502219	38.93	mg/L	-0.03
Spiked Amount 50.000			Recovery =	77.86%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	3918891	922.14	mg/L	95
54) Diethylphthalate	10.30	149	7068	0.38	mg/L #	90
68) Di-n-butylphthalate	12.39	149	7371	0.26	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	16.11	149	12518	1.36	mg/L #	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061497.D BA061011.M Wed Oct 25 15:59:39 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061497.D Vial: 12
Acq On : 25 Oct 2006 2:31 pm Operator: SC
Sample : D0601625-007 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 15:59 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061497.D Vial: 12
Acq On : 25 Oct 2006 2:31 pm Operator: SC
Sample : D0601625-007 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 15:57:41 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

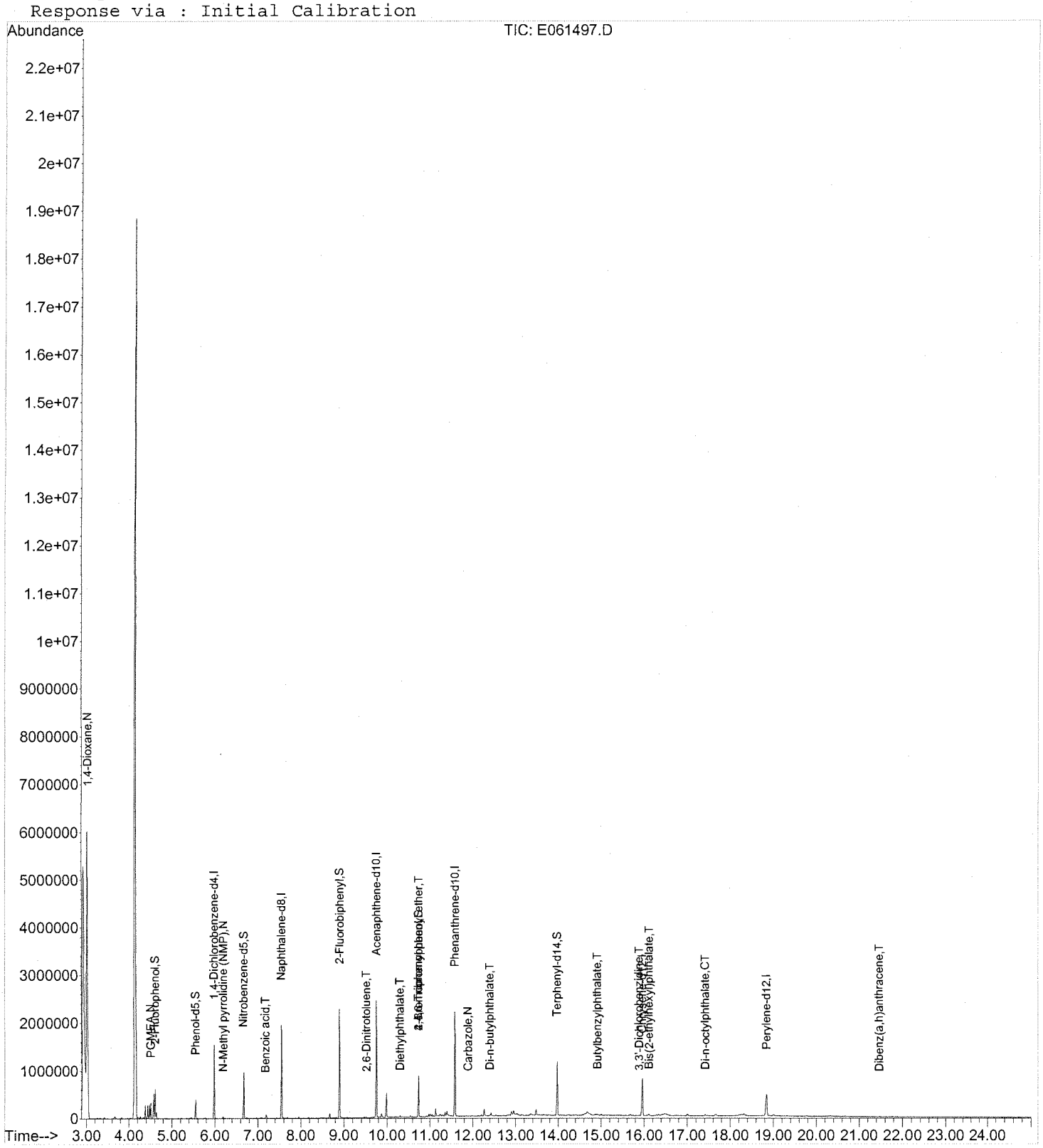
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	257479	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	992051	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	617356	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	1005951	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	486487	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	309868	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	152101	21.99	mg/L	0.00
Spiked Amount 50.000			Recovery = 43.98%			
7) Phenol-d5	5.55	99	145693	15.77	mg/L	-0.01
Spiked Amount 50.000			Recovery = 31.54%			
23) Nitrobenzene-d5	6.67	82	354388	40.80	mg/L	-0.01
Spiked Amount 50.000			Recovery = 81.60%			
41) 2-Fluorobiphenyl	8.90	172	777248	41.86	mg/L	-0.02
Spiked Amount 50.000			Recovery = 83.72%			
61) 2,4,6-Tribromophenol	10.73	330	102169	44.77	mg/L	-0.02
Spiked Amount 50.000			Recovery = 89.54%			
73) Terphenyl-d14	13.97	244	502219	38.93	mg/L	-0.03
Spiked Amount 50.000			Recovery = 77.86%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	3918891	922.14	mg/L	95
5) PGMEA	4.50	43	8990	0.73	mg/L #	19
16) N-Methyl pyrrolidine (NMP)	6.19	99	8383	1.61	mg/L	100
28) Benzoic acid	7.16	122	3274	0.68	mg/L	91
46) 2,6-Dinitrotoluene	9.51	165	1135	0.27	mg/L #	44
54) Diethylphthalate	10.30	149	7068	0.38	mg/L #	90
62) 4-Bromophenyl phenyl ether	10.73	248	6771	1.20	mg/L #	1
67) Carbazole	11.88	167	403	4.56	mg/L #	1
68) Di-n-butylphthalate	12.39	149	7371	0.26	mg/L #	97
74) Butylbenzylphthalate	14.92	149	1893	0.25	mg/L #	75
75) 3,3'-Dichlorobenzidine	15.88	252	109	7.23	mg/L #	1
78) Bis(2-ethylhexyl)phthalate	16.11	149	12518	1.36	mg/L #	86
81) Di-n-octylphthalate	17.42	149	4081	0.26	mg/L #	23
86) Dibenz(a,h)anthracene	21.46	278	1734	0.31	mg/L #	86

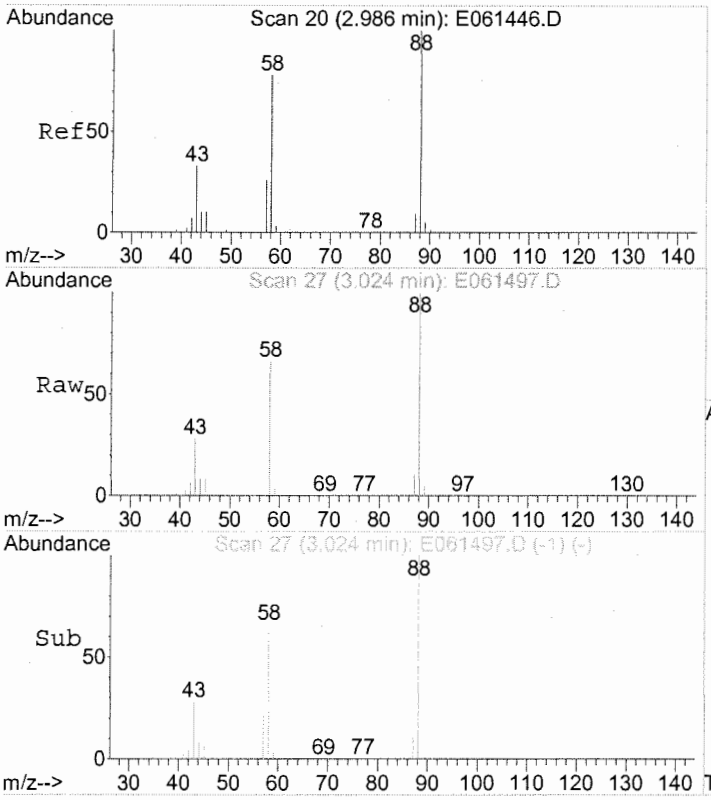
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061497.D Vial: 12
Acq On : 25 Oct 2006 2:31 pm Operator: SC
Sample : D0601625-007 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 15:57 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

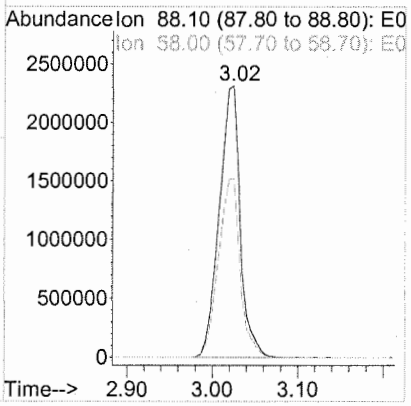


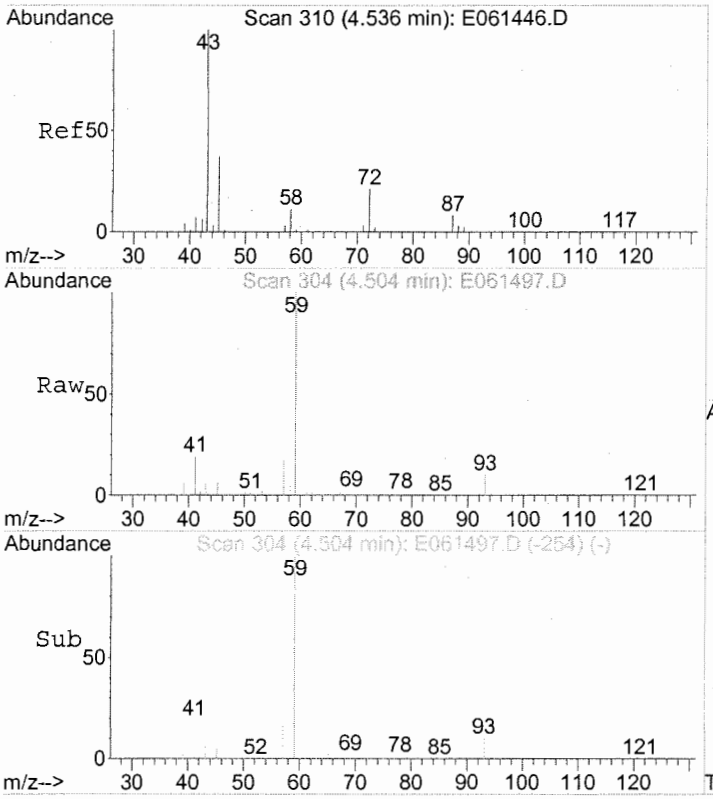


#2
1,4-Dioxane
Concen: 922.14 mg/L
RT: 3.02 min Scan# 27
Delta R.T. 0.04 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion: 88 Resp: 3918891

Ion	Ratio	Lower	Upper
88	100		
58	68.0	57.6	86.4

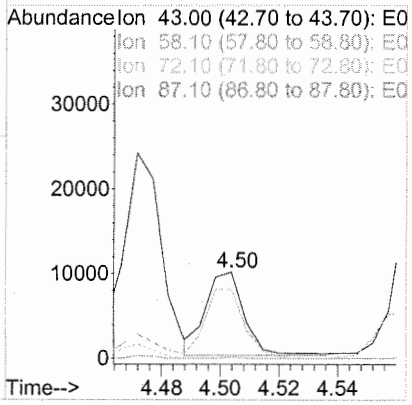


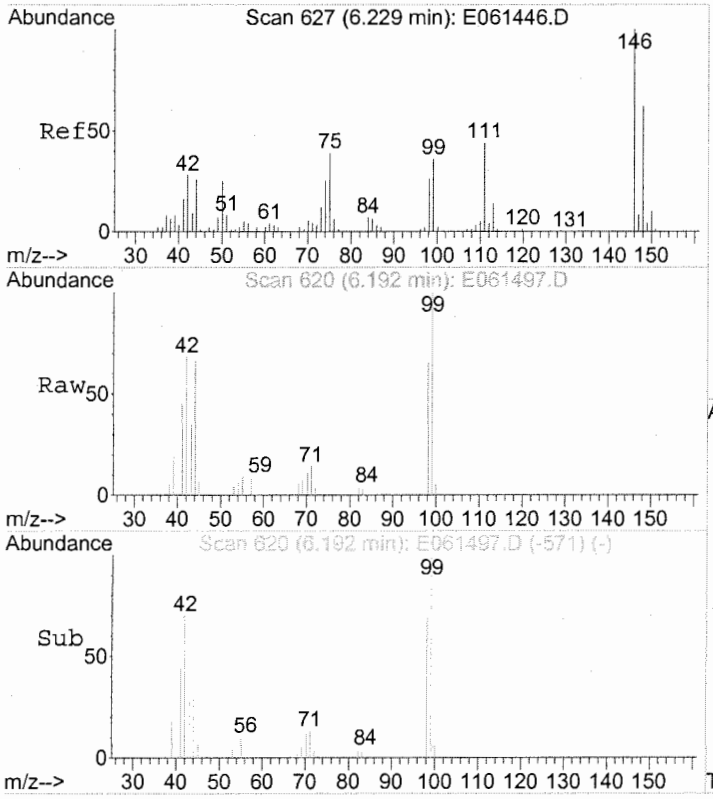


#5
PGMEA
Concen: 0.73 mg/L
RT: 4.50 min Scan# 304
Delta R.T. -0.03 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion: 43 Resp: 8990

Ion	Ratio	Lower	Upper
43	100		
58	83.9	9.4	14.2#
72	0.0	16.8	25.2#
87	0.0	6.6	10.0#

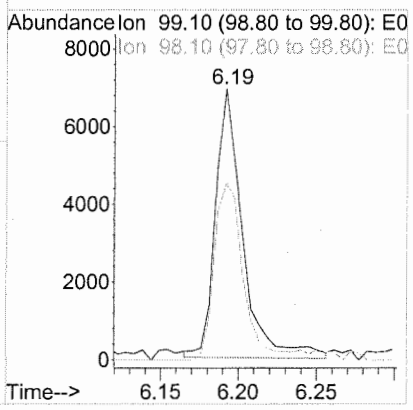


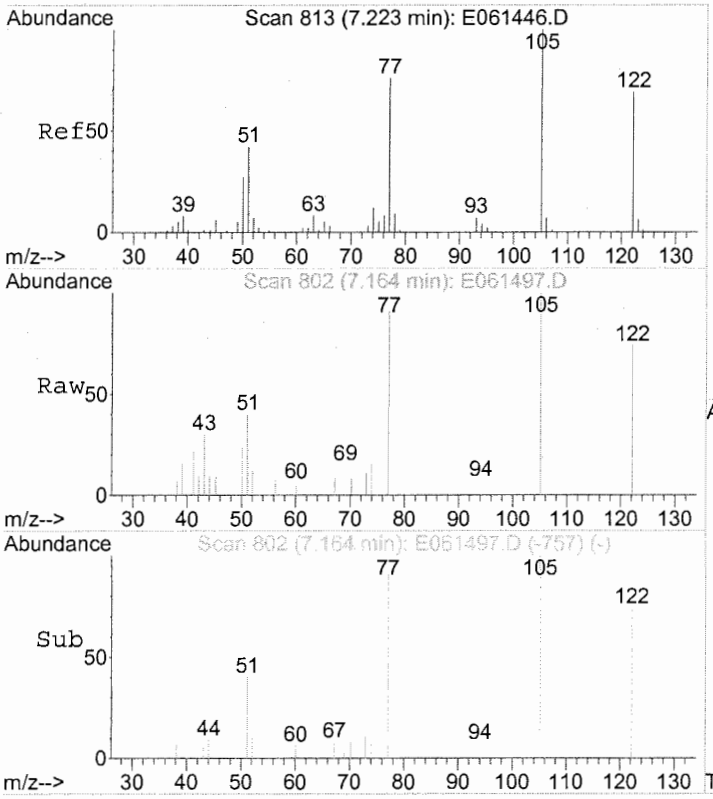


#16
N-Methyl pyrrolidine (NMP)
Concen: 1.61 mg/L
RT: 6.19 min Scan# 620
Delta R.T. -0.04 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion: 99 Resp: 8383

Ion	Ratio	Lower	Upper
99	100		
98	70.2	55.9	83.9

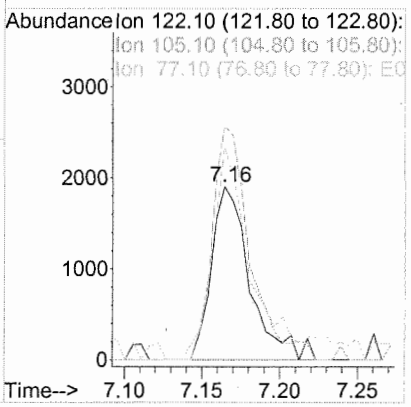


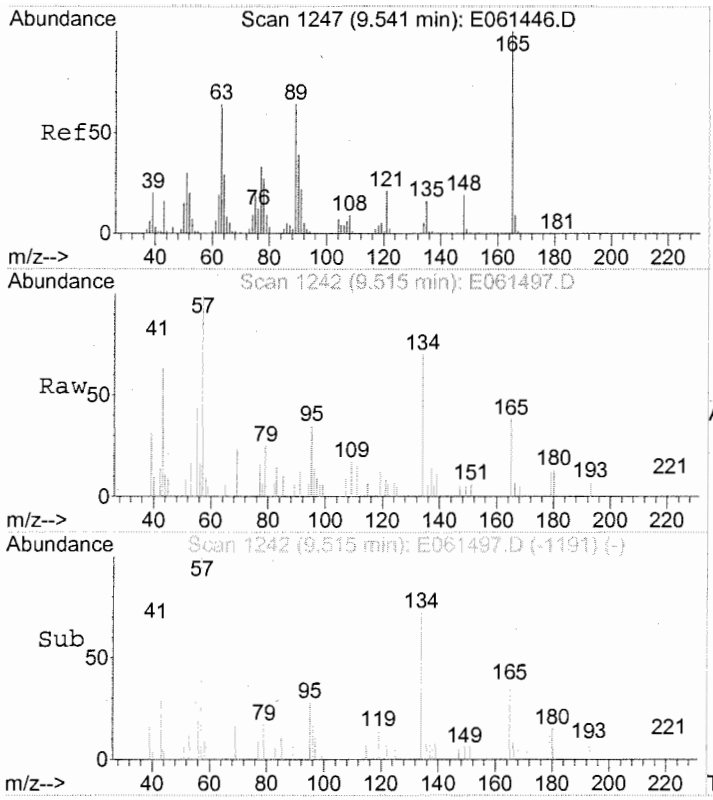


#28
Benzoic acid
Concen: 0.68 mg/L
RT: 7.16 min Scan# 802
Delta R.T. -0.06 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:122 Resp: 3274

Ion	Ratio	Lower	Upper
122	100		
105	131.6	110.7	166.1
77	120.3	84.6	126.8

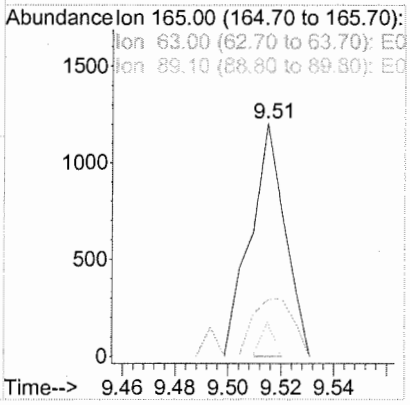


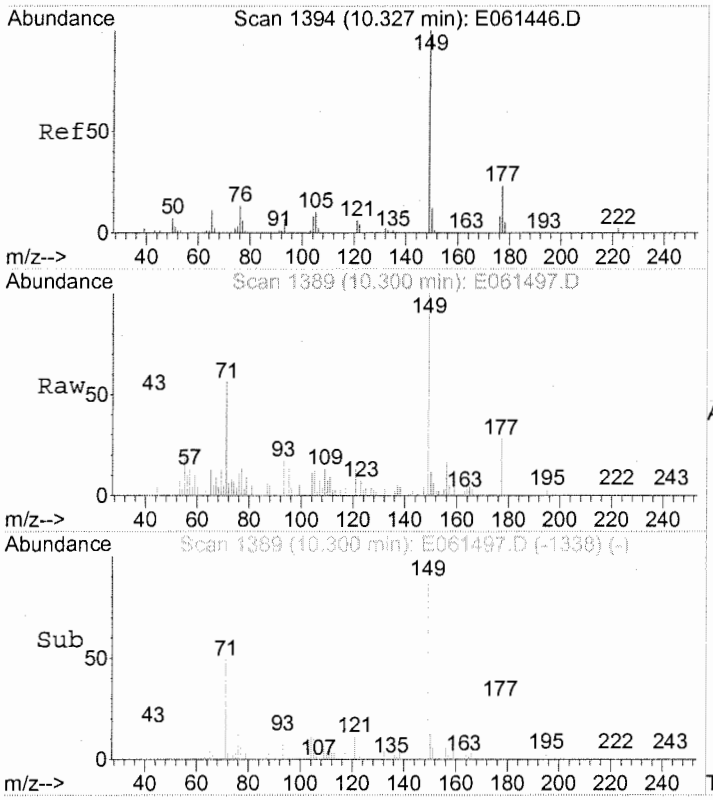


#46
2,6-Dinitrotoluene
Concen: 0.27 mg/L
RT: 9.51 min Scan# 1242
Delta R.T. -0.03 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:165 Resp: 1135

Ion	Ratio	Lower	Upper
165	100		
63	27.6	46.5	69.7#
89	5.0	46.2	69.4#

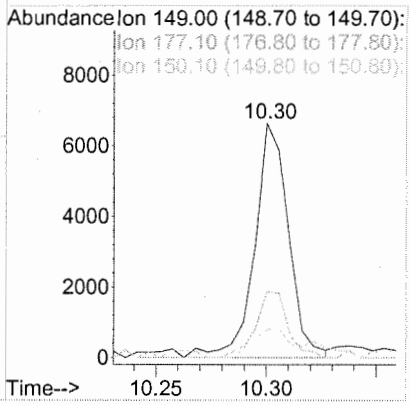


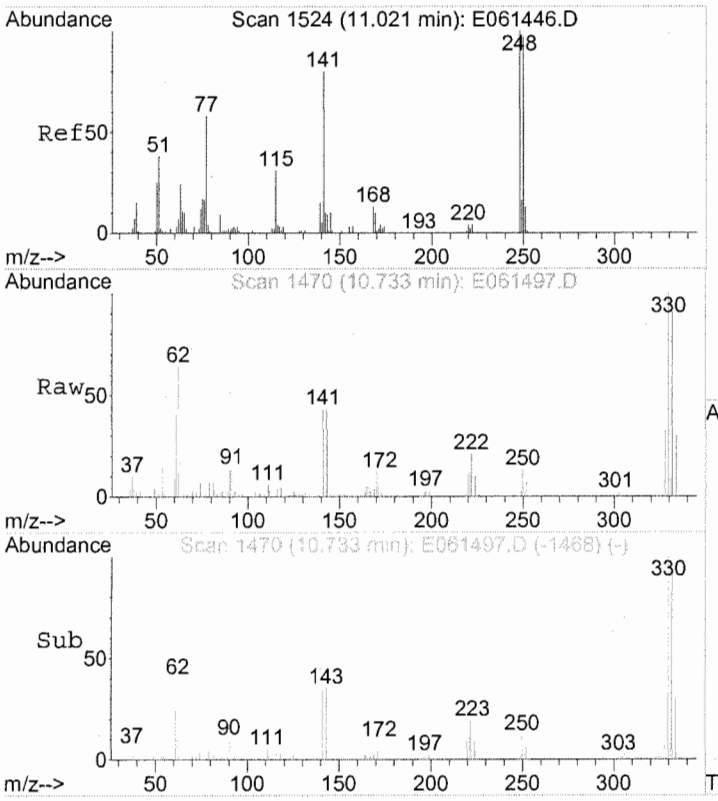


#54
Diethylphthalate
Concen: 0.38 mg/L
RT: 10.30 min Scan# 1389
Delta R.T. -0.03 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:149 Resp: 7068

Ion	Ratio	Lower	Upper
149	100		
177	26.2	19.0	28.4
150	20.2	9.9	14.9#

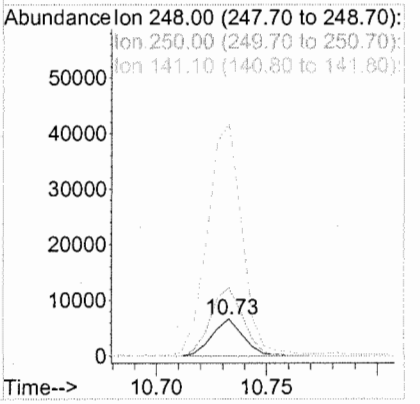


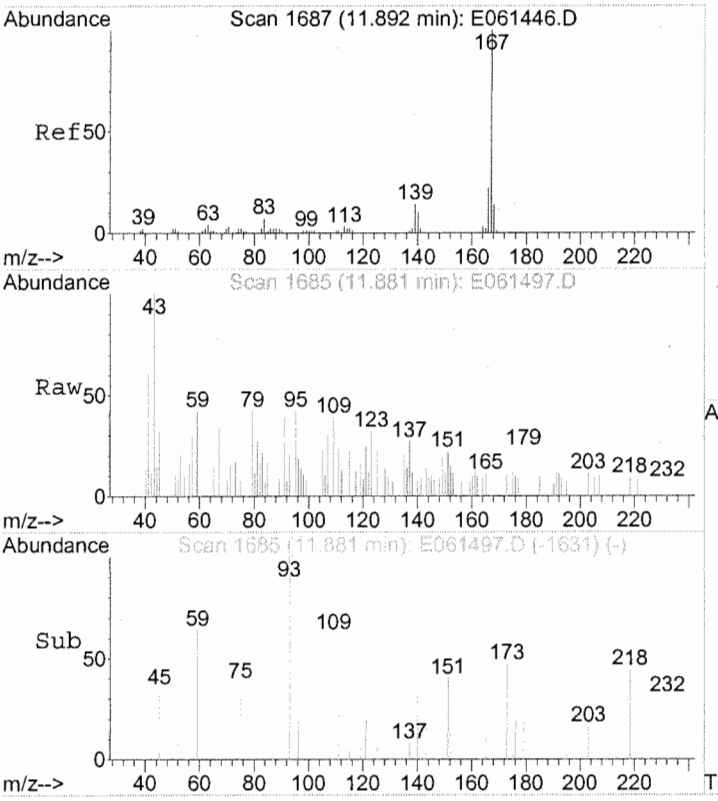


#62
4-Bromophenyl phenyl ether
Concen: 1.20 mg/L
RT: 10.73 min Scan# 1470
Delta R.T. -0.29 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:248 Resp: 6771

Ion	Ratio	Lower	Upper
248	100		
250	191.1	77.0	115.6#
141	647.0	55.9	83.9#

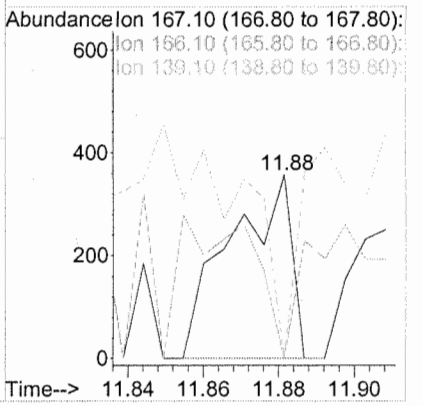


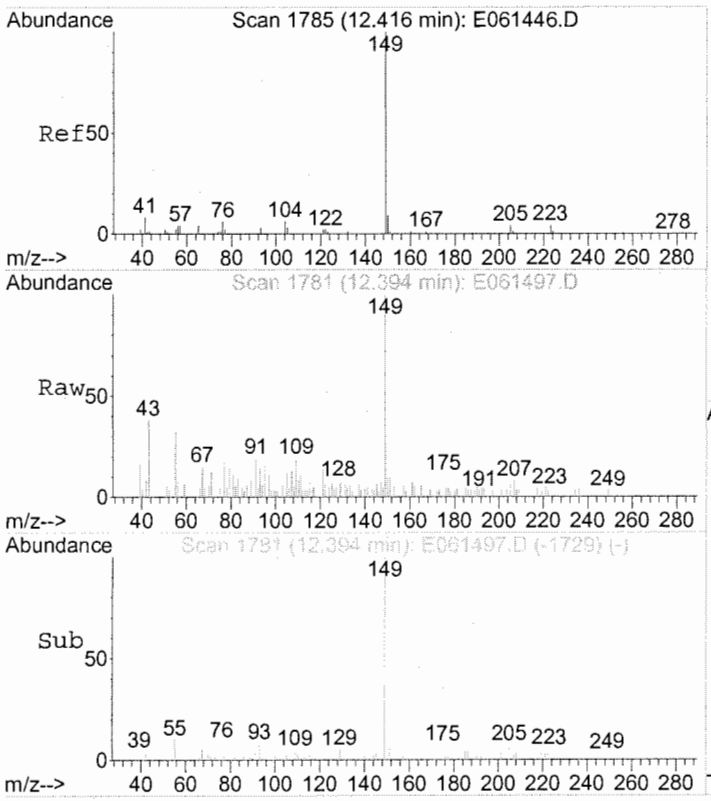


#67
Carbazole
Concen: 4.56 mg/L
RT: 11.88 min Scan# 1685
Delta R.T. -0.01 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:167 Resp: 403

Ion	Ratio	Lower	Upper
167	100		
166	90.8	17.0	25.4#
139	194.8	10.3	15.5#

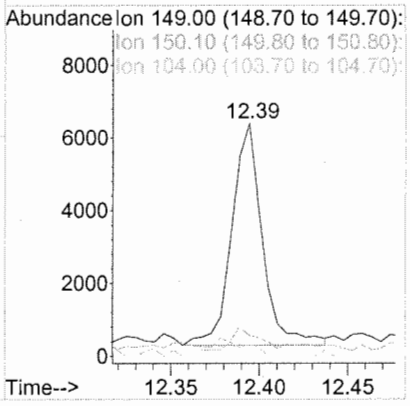


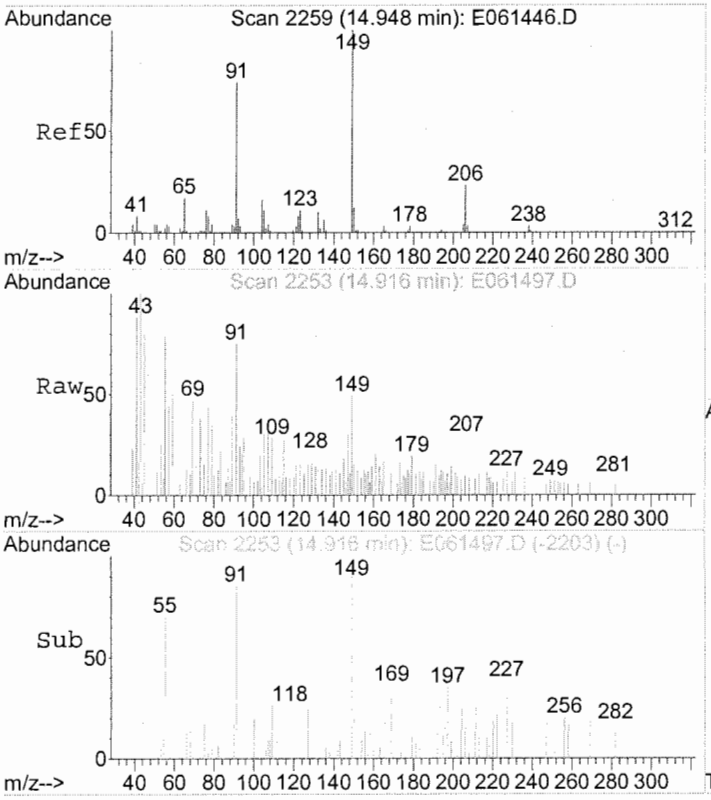


#68
Di-n-butylphthalate
Concen: 0.26 mg/L
RT: 12.39 min Scan# 1781
Delta R.T. -0.02 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:149 Resp: 7371

Ion	Ratio	Lower	Upper
149	100		
150	8.6	7.2	10.8
104	7.6	4.6	6.8#

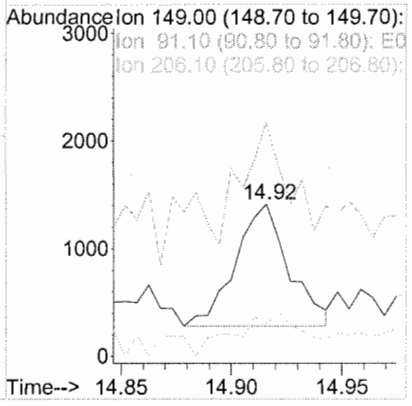


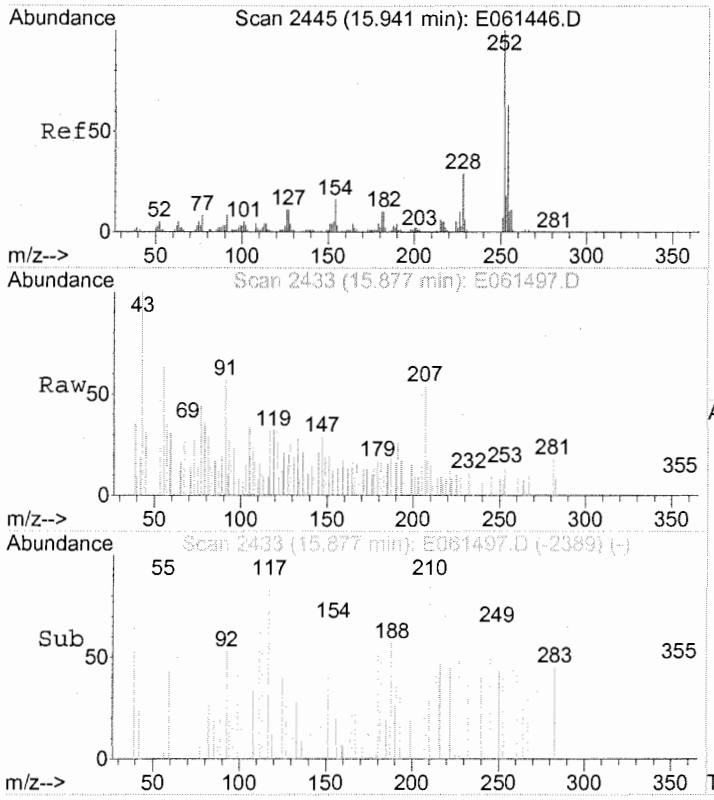


#74
Butylbenzylphthalate
Concen: 0.25 mg/L
RT: 14.92 min Scan# 2253
Delta R.T. -0.03 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:149 Resp: 1893

Ion	Ratio	Lower	Upper
149	100		
91	85.3	55.8	83.8#
206	45.6	18.9	28.3#

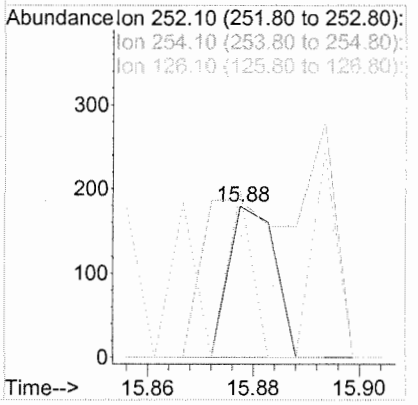


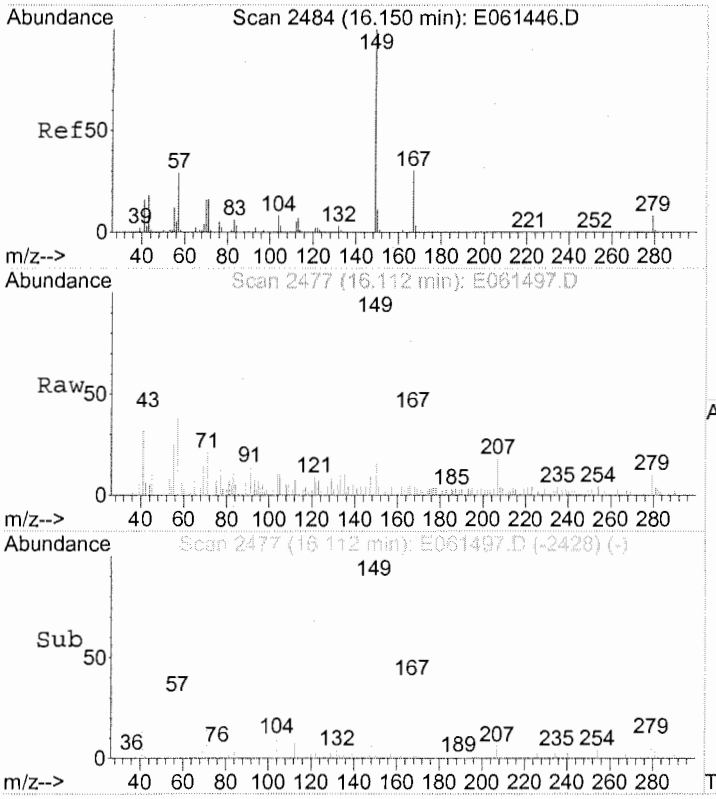


#75
3,3'-Dichlorobenzidine
Concen: 7.23 mg/L
RT: 15.88 min Scan# 2433
Delta R.T. -0.06 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:252 Resp: 109

Ion	Ratio	Lower	Upper
252	100		
254	0.0	51.0	76.4#
126	111.9	8.0	12.0#

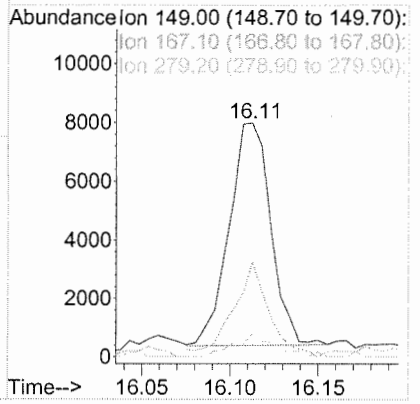


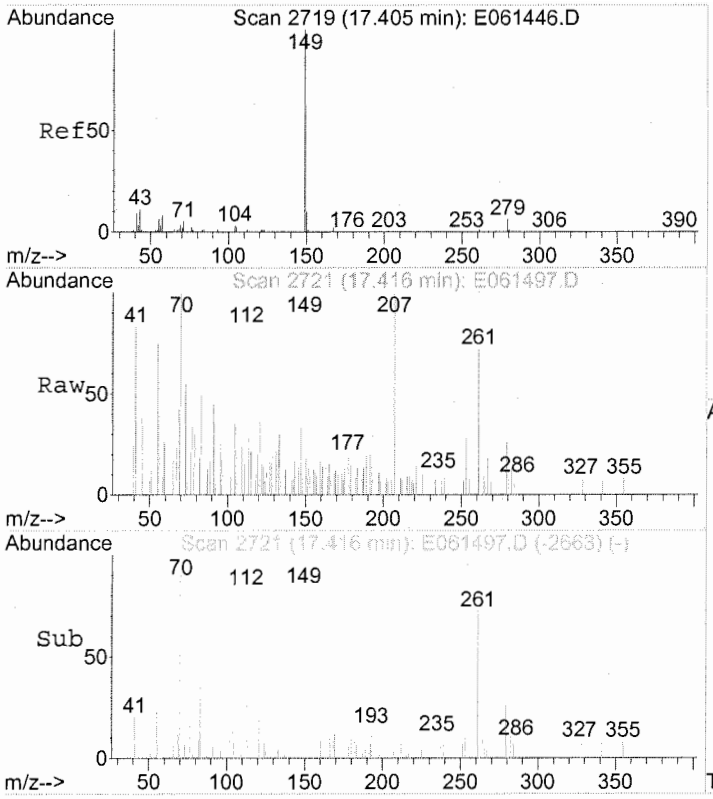


#78
Bis(2-ethylhexyl)phthalate
Concen: 1.36 mg/L
RT: 16.11 min Scan# 2477
Delta R.T. -0.04 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:149 Resp: 12518

Ion	Ratio	Lower	Upper
149	100		
167	37.6	23.5	35.3#
279	10.2	6.1	9.1#

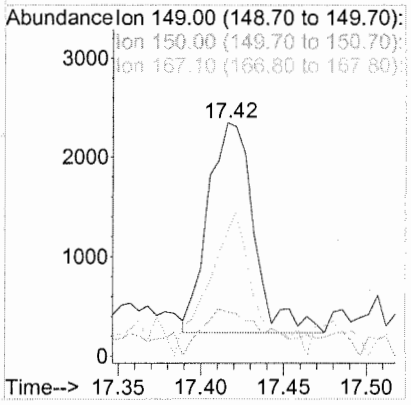


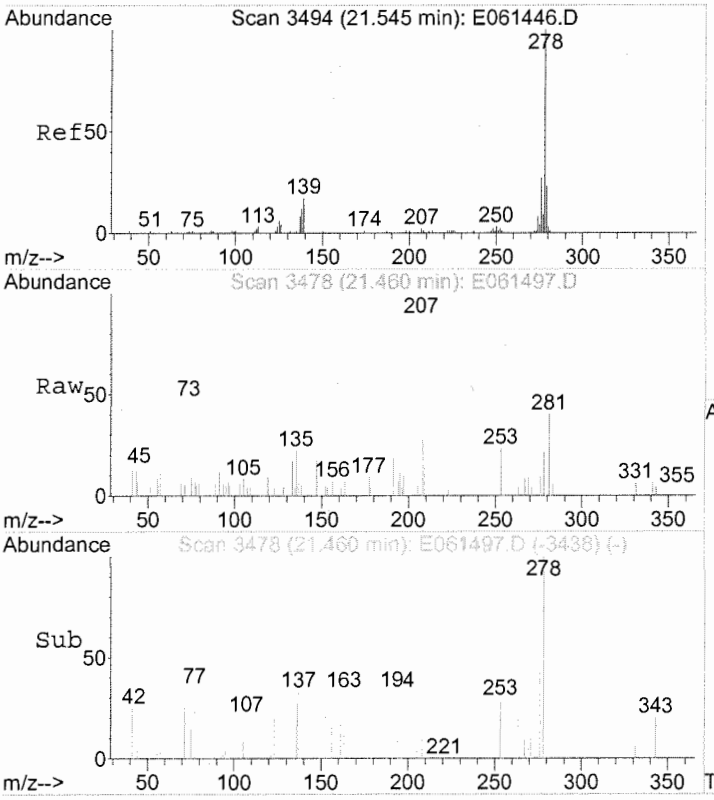


#81
Di-n-octylphthalate
Concen: 0.26 mg/L
RT: 17.42 min Scan# 2721
Delta R.T. 0.01 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:149 Resp: 4081

Ion	Ratio	Lower	Upper
149	100		
150	30.9	7.7	11.5#
167	68.3	1.4	2.0#

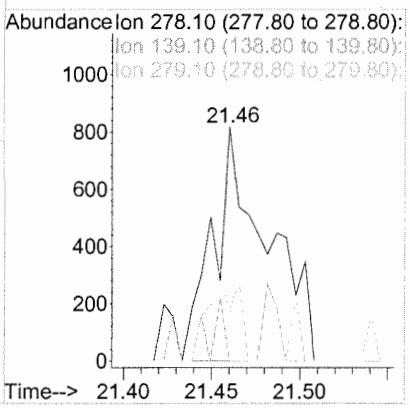




#86
Dibenz(a,h)anthracene
Concen: 0.31 mg/L
RT: 21.46 min Scan# 3478
Delta R.T. -0.09 min
Lab File: E061497.D
Acq: 25 Oct 2006 2:31 pm

Tgt Ion:278 Resp: 1734

Ion	Ratio	Lower	Upper
278	100		
139	2.9	12.2	18.2#
279	20.9	17.8	26.8



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	D0601625
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75177	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061503.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 17:45	**Quant Date:**	10/26/2006 08:19	**Vial:**	18
Run Type:	SMPL			**Dilution:**	50.0
Lab ID:	D0601625-007			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	0.00?	152	215345	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	823663	40.00	OK
3	Acenaphthene-d10	9.75	0.00?	164	512135	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	896084	40.00	OK
5	Chrysene-d12	15.96	0.00?	240	451628	40.00	OK
6	Perylene-d12	18.84	0.00?	264	252146	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol			0.00	112	0d		0	23-115	*	NR
1	Phenol-d5			0.00	99	0d		0	23-121	*	NR
2	Nitrobenzene-d5			0.00	82	0d		0	42-122	*	NR
3	2-Fluorobiphenyl			0.00	172	0d		0	47-110	*	NR
4	2,4,6-Tribromophenol			0.00	330	0d		0	31-112	*	NR
5	Terphenyl-d14			0.00	244	0d		0	37-130	*	NR

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.01	0.01	0.00	88	57045	16.05	760	D	
1	N-Nitrosodimethylamine				42	0		24	U	NR
1	Pyridine				79	0		17	U	NR
1	Phenol				94	0		5.5	U	NR
1	Aniline				93	0		17	U	NR
1	Bis(2-chloroethyl) Ether				93	0		12	U	NR
1	2-Chlorophenol				128	0		12	U	NR
1	1,3-Dichlorobenzene				146	0		10	U	NR
1	1,4-Dichlorobenzene				146	0		12	U	NR
1	Benzyl alcohol				108	0d		11	U	NR

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061503.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 17:45	**Quant Date:**	10/26/2006 08:19	**Vial:**	18
Run Type:	SMPL			**Dilution:**	50.0
Lab ID:	D0601625-007			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		8.5	U	NR
1	2-Methylphenol				108	0		16	U	NR
1	Bis(2-Chloroisopropyl)ether				45	0		12	U	NR
1	4-Methylphenol				107	0		14	U	NR
1	N-Nitrosodi-n-propylamine				70	0		14	U	NR
1	Hexachloroethane				117	0		130	U	NR
2	Nitrobenzene				77	0		13	U	NR
2	Isophorone				82	0		15	U	NR
2	2-Nitrophenol				139	0		13	U	NR
2	2,4-Dimethylphenol				122	0		42	U	NR
2	Benzoic acid				122	0		1000	U	NR
2	bis(2-Chloroethoxy)methane				93	0		16	U	NR
2	2,4-Dichlorophenol				162	0		12	U	NR
2	1,2,4-Trichlorobenzene				180	0		10	U	NR
2	Naphthalene				128	0		11	U	NR
2	4-Chloroaniline				127	0		18	U	NR
2	Hexachlorobutadiene				225	0		11	U	NR
2	4-Chloro-3-methylphenol				107	0		16	U	NR
2	2-Methylnaphthalene				142	0		9.0	U	NR
3	Hexachlorocyclopentadiene				237	0		90	U	NR
3	2,4,6-Trichlorophenol				196	0		14	U	NR
3	2,4,5-Trichlorophenol				196	0		14	U	NR
3	2-Chloronaphthalene				162	0		11	U	NR
3	2-Nitroaniline				65	0		14	U	NR
3	Dimethyl Phthalate				163	0		13	U	NR
3	Acenaphthylene				152	0		12	U	NR
3	2,6-Dinitrotoluene				165	0		15	U	NR
3	3-Nitroaniline				138	0		15	U	NR
3	Acenaphthene				154	0		7.5	U	NR
3	2,4-Dinitrophenol				184	0		500	U	NR
3	4-Nitrophenol				109	0		1000	U	NR
3	Dibenzofuran				168	0		11	U	NR
3	2,4-Dinitrotoluene				165	0		15	U	NR
3	Fluorene				166	0		11	U	NR
3	Diethyl Phthalate				149	0		14	U	NR
3	4-Chlorophenyl Phenyl Ether				204	0		11	U	NR
3	4-Nitroaniline				138	0		18	U	NR
4	2-Methyl-4,6-dinitrophenol				198	0		10	U	NR
4	N-Nitrosodiphenylamine				169	0		12	U	NR
4	4-Bromophenyl Phenyl Ether				248	0		9.0	U	NR
4	Hexachlorobenzene				284	0		11	U	NR
4	Pentachlorophenol				266	0		32	U	NR
4	Phenanthrene				178	0		11	U	NR

U: Undetected at or above MDL
J: Analyte deteeted above MDL, but below MRL
B: Hit above MRL also found in Mcthod Blank
E: Analytc coneentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061503.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 17:45	**Quant Date:**	10/26/2006 08:19	**Vial:**	18
Run Type:	SMPL			**Dilution:**	50.0
Lab ID:	D0601625-007			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		11	U	NR
4	Di-n-butyl Phthalate				149	0		13	U	NR
4	Fluoranthene				202	0		11	U	NR
5	Pyrene				202	0		17	U	NR
5	Butyl Benzyl Phthalate				149	0		24	U	NR
5	3,3'-Dichlorobenzidine				252	0		42	U	NR
5	Benz(a)anthracene				228	0		11	U	NR
5	Chrysene				228	0		11	U	NR
5	Bis(2-ethylhexyl) Phthalate				149	0		15	U	NR
6	Di-n-octyl Phthalate				149	0		17	U	NR
6	Benzo(b)fluoranthene				252	0		21	U	NR
6	Benzo(k)fluoranthene				252	0		16	U	NR
6	Benzo(a)pyrene				252	0		27	U	NR
6	Indeno(1,2,3-cd)pyrene				276	0		33	U	NR
6	Dibenz(a,h)anthracene				278	0		31	U	NR
6	Benzo(g,h,i)perylene				276	0		37	U	NR

Prep Amount:	1050 ml	**Dilution:**	50.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evideuce of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061503.D Vial: 18
Acq On : 25 Oct 2006 5:45 pm Operator: SC
Sample : D0601625-007 1/50 8270W 10/6/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 08:18:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/26/06

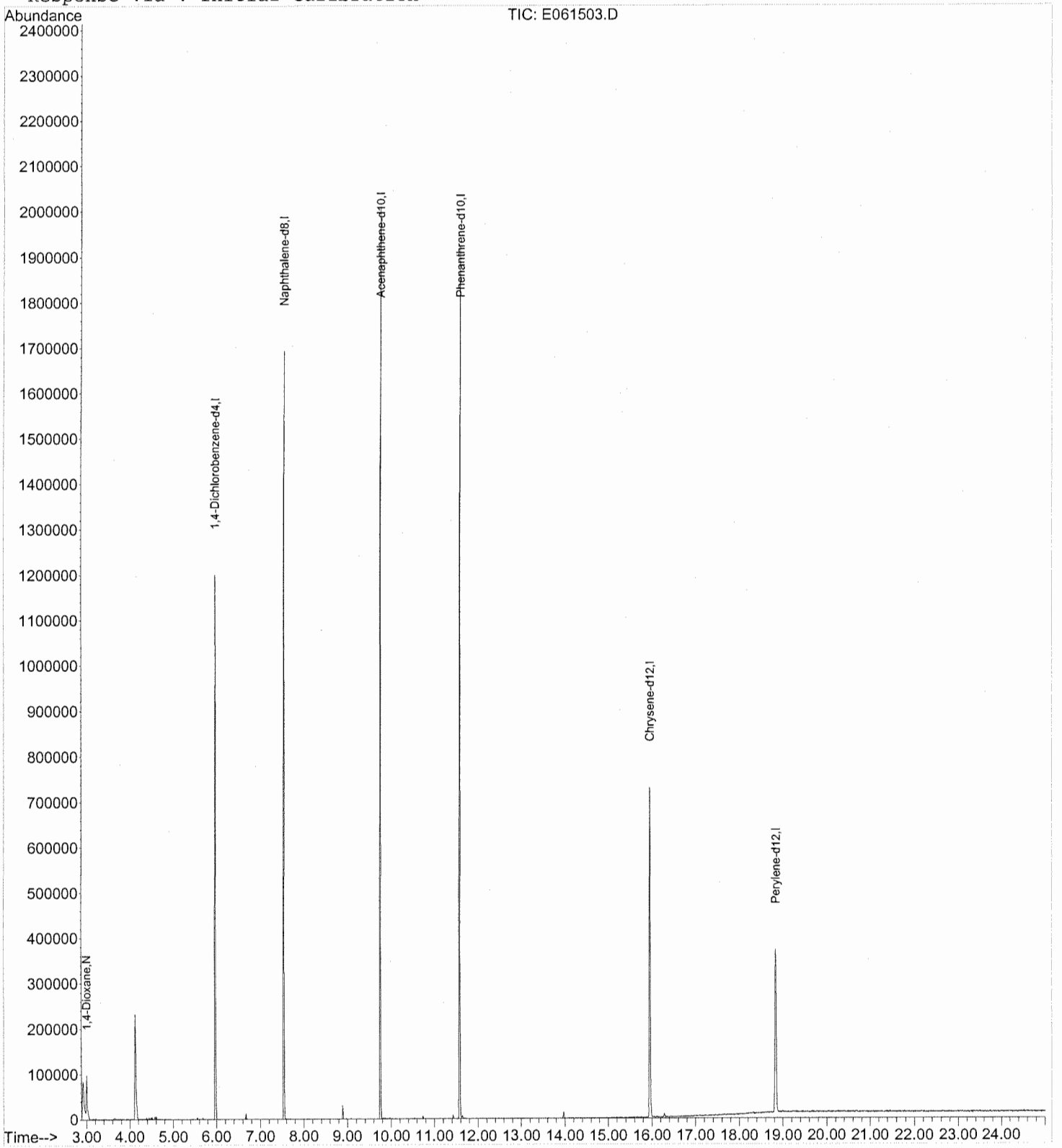
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	215345	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	823663	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	512135	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	896084	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	451628	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	252146	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	0.00	112	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
7) Phenol-d5	0.00	99	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
23) Nitrobenzene-d5	0.00	82	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
41) 2-Fluorobiphenyl	0.00	172	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
61) 2,4,6-Tribromophenol	0.00	330	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
73) Terphenyl-d14	0.00	244	0d	0.00	mg/L	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	57045	16.05	mg/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061503.D Vial: 18
Acq On : 25 Oct 2006 5:45 pm Operator: SC
Sample : D0601625-007 1/50 8270W 10/6/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 8:19 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061503.D Vial: 18
Acq On : 25 Oct 2006 5:45 pm Operator: SC
Sample : D0601625-007 1/50 8270W 10/6/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 08:18:48 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

E 10/26/06

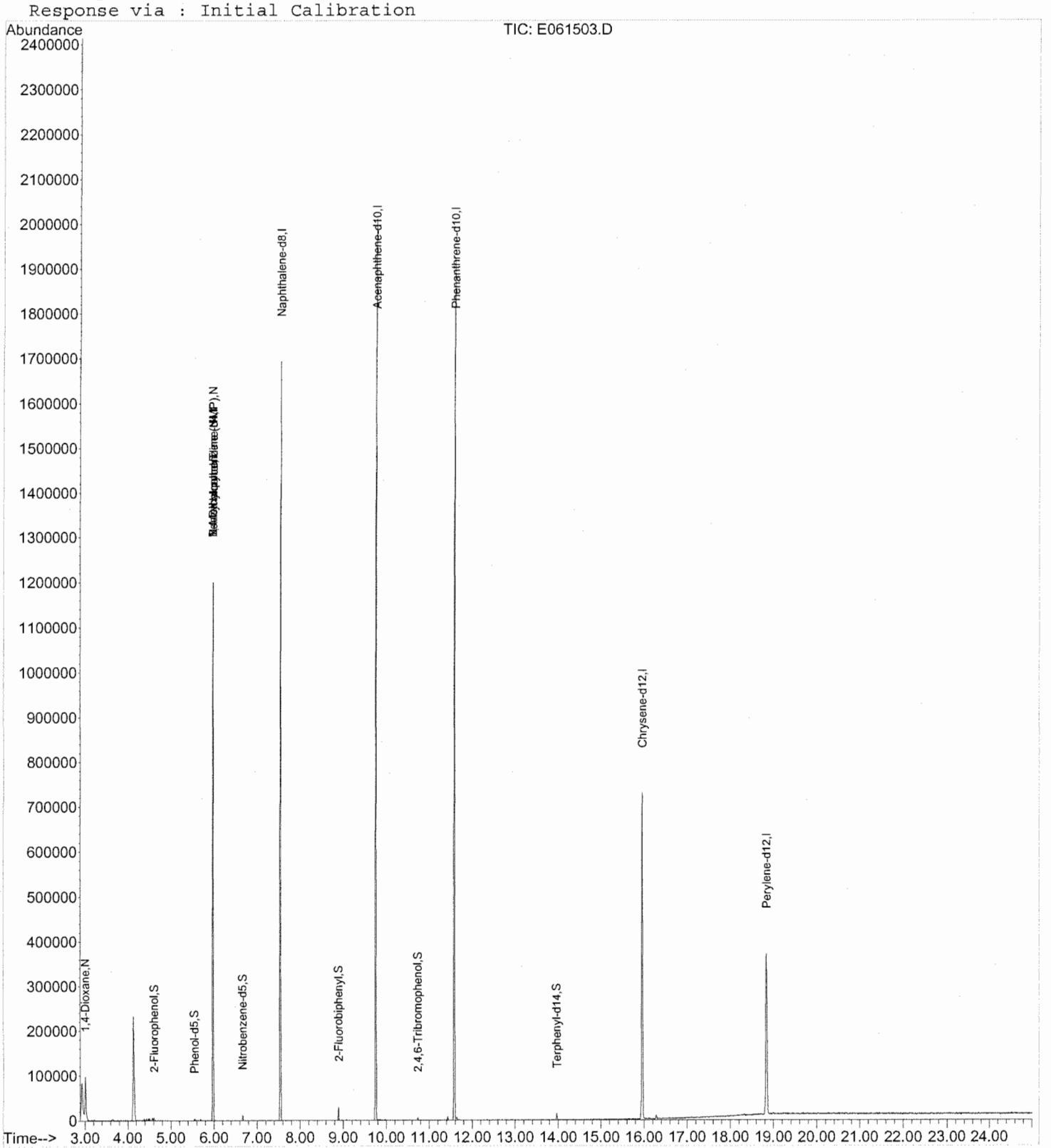
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	215345	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	823663	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	512135	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	896084	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	451628	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	252146	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	2156	0.37	mg/L	0.00
Spiked Amount 50.000			Recovery = 0.74%			
7) Phenol-d5	5.55	99	1871	0.24	mg/L	-0.01
Spiked Amount 50.000			Recovery = 0.48%			
23) Nitrobenzene-d5	6.67	82	4681	0.65	mg/L	-0.01
Spiked Amount 50.000			Recovery = 1.30%			
41) 2-Fluorobiphenyl	8.89	172	10335	0.67	mg/L	-0.02
Spiked Amount 50.000			Recovery = 1.34%			
61) 2,4,6-Tribromophenol	10.73	330	1008	0.50	mg/L	-0.02
Spiked Amount 50.000			Recovery = 1.00%			
73) Terphenyl-d14	13.97	244	7740	0.65	mg/L	-0.04
Spiked Amount 50.000			Recovery = 1.30%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	57045	16.05	mg/L	98
14) Benzyl alcohol	5.98	108	998	0.24	mg/L #	1
16) N-Methyl pyrrolidine (NMP)	5.97	99	3802	0.87	mg/L #	36

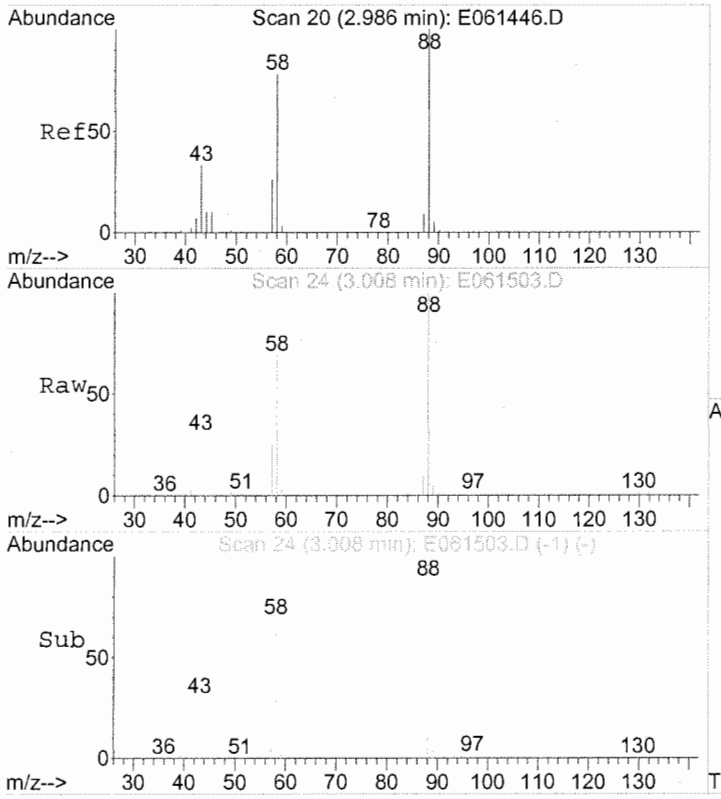
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061503.D Vial: 18
Acq On : 25 Oct 2006 5:45 pm Operator: SC
Sample : D0601625-007 1/50 8270W 10/6/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 8:18 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

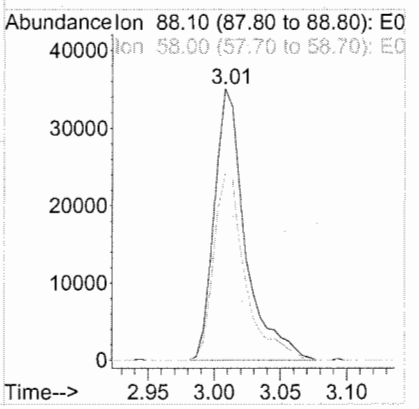


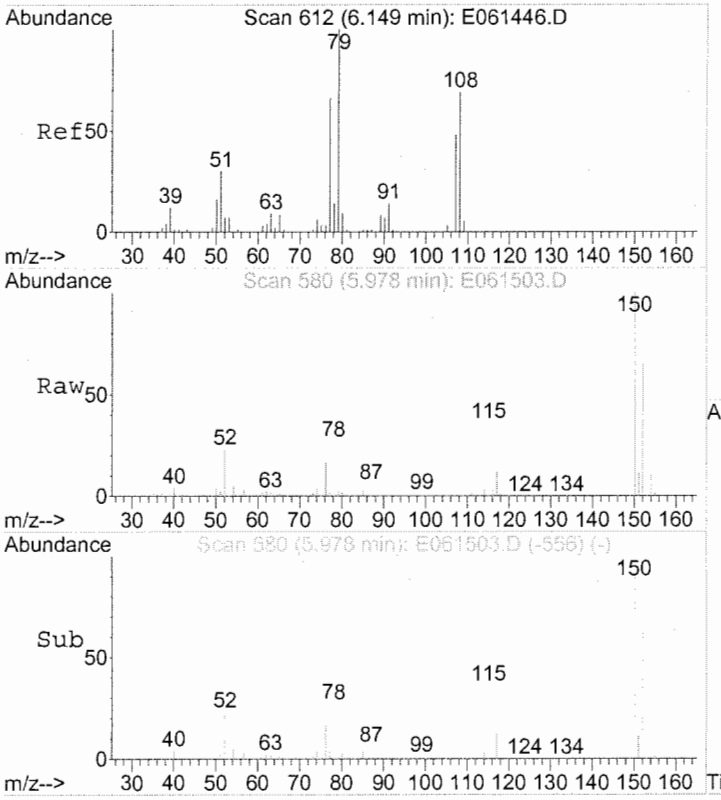


#2
1,4-Dioxane
Concen: 16.05 mg/L
RT: 3.01 min Scan# 24
Delta R.T. 0.02 min
Lab File: E061503.D
Acq: 25 Oct 2006 5:45 pm

Tgt Ion: 88 Resp: 57045

Ion	Ratio	Lower	Upper
88	100		
58	70.2	57.6	86.4

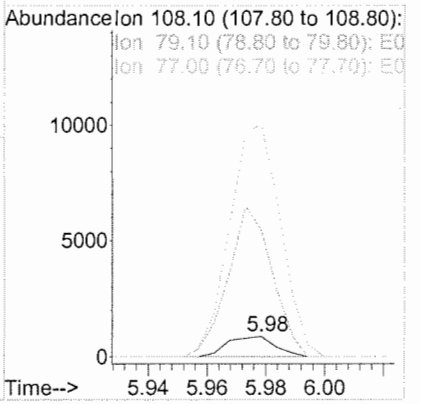


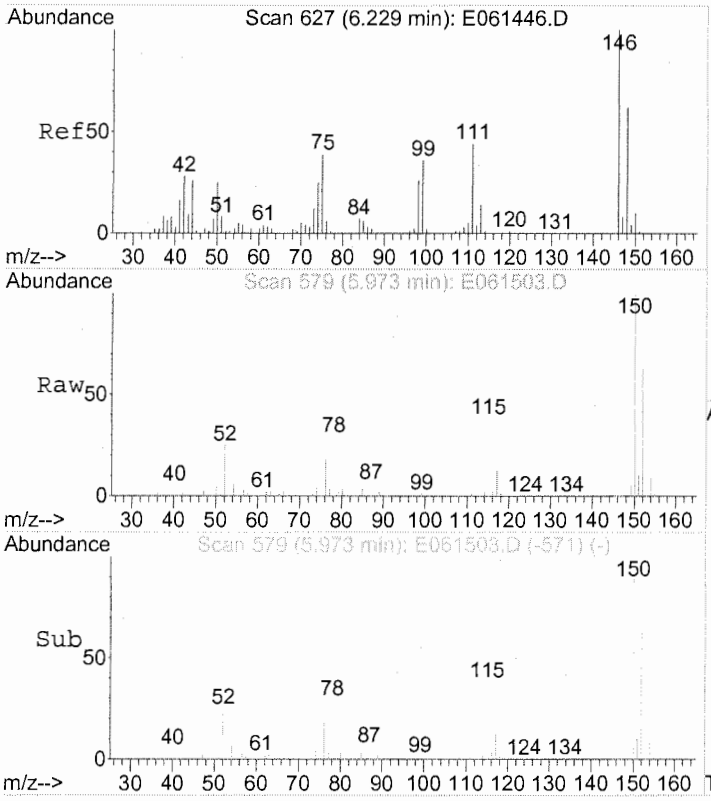


#14
Benzyl alcohol
Concen: 0.24 mg/L
RT: 5.98 min Scan# 580
Delta R.T. -0.17 min
Lab File: E061503.D
Acq: 25 Oct 2006 5:45 pm

Tgt Ion:108 Resp: 998

Ion	Ratio	Lower	Upper
108	100		
79	679.7	116.8	175.2#
77	1208.0	76.2	114.4#

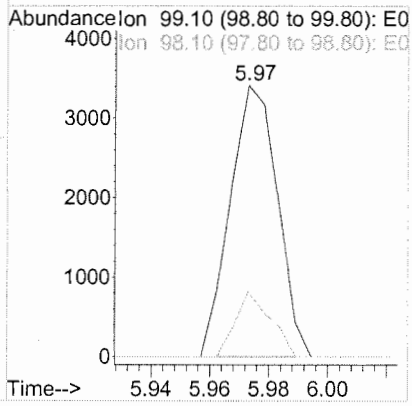




#16
N-Methyl pyrrolidine (NMP)
Concen: 0.87 mg/L
RT: 5.97 min Scan# 579
Delta R.T. -0.26 min
Lab File: E061503.D
Acq: 25 Oct 2006 5:45 pm

Tgt Ion: 99 Resp: 3802

Ion	Ratio	Lower	Upper
99	100		
98	17.7	55.9	83.9#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	D0601625
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75178	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061498.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 15:03	**Quant Date:**	10/25/2006 16:01	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-008			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	0.00?	152	215012	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	816139	40.00	OK
3	Acenaphthene-d10	9.74	-0.01?	164	509505	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	866227	40.00	OK
5	Chrysene-d12	15.95	-0.01?	240	429616	40.00	OK
6	Perylene-d12	18.83	-0.01?	264	234202	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.61	0.00	0.00	112	135709	23.50	47	23-115	OK	
1	Phenol-d5	5.55	0.00	0.00	99	138700	17.98	36	23-121	OK	
2	Nitrobenzene-d5	6.67	0.00	0.00	82	291380	40.77	82	42-122	OK	
3	2-Fluorobiphenyl	8.89	0.00	0.00	172	626178	40.87	82	47-110	OK	
4	2,4,6-Tribromophenol	10.73	-0.01	0.00	330	84754	43.12	86	31-112	OK	
5	Terphenyl-d14	13.96	-0.01	0.00	244	489150	42.93	86	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.02	0.02	0.00	88	1307	0.3700	0.41	U	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elntion

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061498.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 15:03	**Quant Date:**	10/25/2006 16:01	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-008			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid				122	0**d**		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0		0.30	U	
3	3-Nitroaniline				138	0		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.30	-0.01	0.00	149	6627	0.4300	0.42	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061498.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 15:03	**Quant Date:**	10/25/2006 16:01	**Vial:**	13
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-008			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.39		0.00	149	5054	0.2100	0.25	U	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.11	-0.01	0.00	149	4086	0.5000	0.49	J	
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0**d**		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1030 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061498.D Vial: 13
Acq On : 25 Oct 2006 3:03 pm Operator: SC
Sample : D0601625-008 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 15:59:50 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/26/06

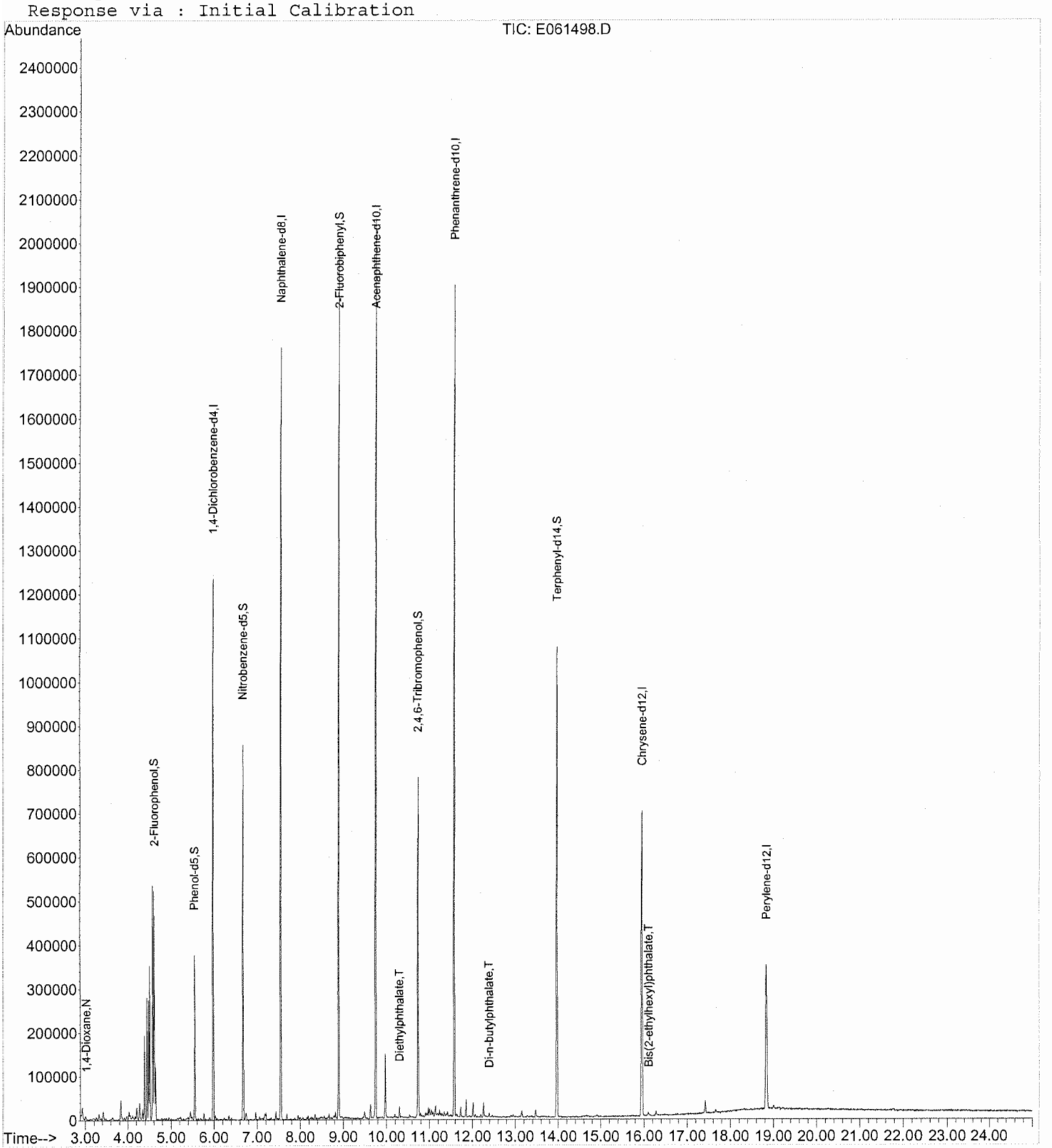
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	215012	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	816139	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.74	164	509505	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	866227	40.00	mg/L	-0.03
70) Chrysene-d12	15.95	240	429616	40.00	mg/L	-0.05
80) Perylene-d12	18.83	264	234202	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	135709	23.50	mg/L	0.00
Spiked Amount 50.000			Recovery =	47.00%		
7) Phenol-d5	5.55	99	138700	17.98	mg/L	-0.01
Spiked Amount 50.000			Recovery =	35.96%		
23) Nitrobenzene-d5	6.67	82	291380	40.77	mg/L	-0.01
Spiked Amount 50.000			Recovery =	81.54%		
41) 2-Fluorobiphenyl	8.89	172	626178	40.87	mg/L	-0.02
Spiked Amount 50.000			Recovery =	81.74%		
61) 2,4,6-Tribromophenol	10.73	330	84754	43.12	mg/L	-0.02
Spiked Amount 50.000			Recovery =	86.24%		
73) Terphenyl-d14	13.96	244	489150	42.93	mg/L	-0.04
Spiked Amount 50.000			Recovery =	85.86%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	1307	0.37	mg/L #	63
54) Diethylphthalate	10.30	149	6627	0.43	mg/L	96
68) Di-n-butylphthalate	12.39	149	5054	0.21	mg/L #	92
78) Bis(2-ethylhexyl)phthalate	16.11	149	4086	0.50	mg/L #	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061498.D BA061011.M Wed Oct 25 16:01:49 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061498.D Vial: 13
Acq On : 25 Oct 2006 3:03 pm Operator: SC
Sample : D0601625-008 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 16:01 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061498.D Vial: 13
Acq On : 25 Oct 2006 3:03 pm Operator: SC
Sample : D0601625-008 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 15:59:50 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

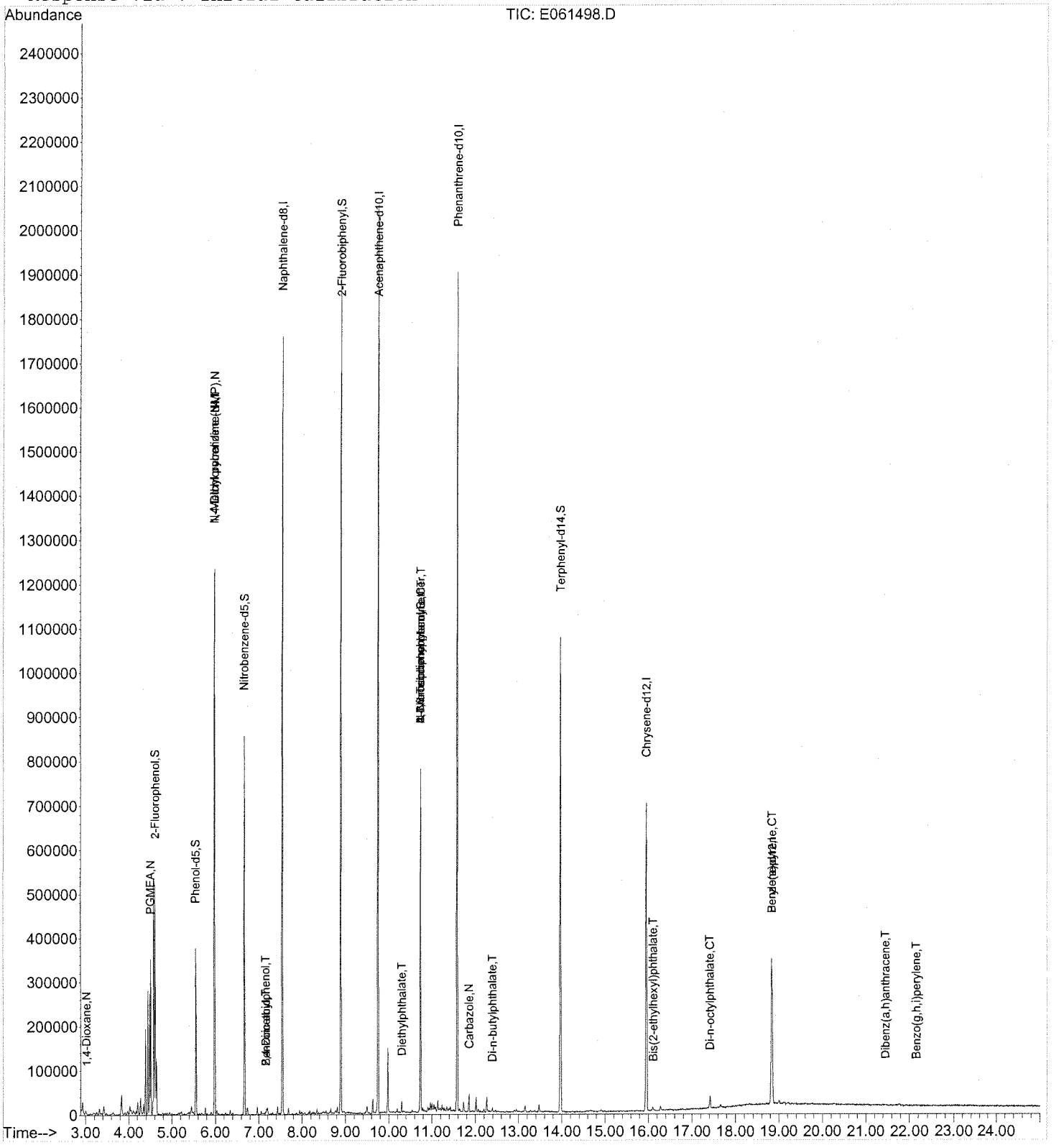
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	215012	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	816139	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.74	164	509505	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	866227	40.00	mg/L	-0.03
70) Chrysene-d12	15.95	240	429616	40.00	mg/L	-0.05
80) Perylene-d12	18.83	264	234202	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	135709	23.50	mg/L	0.00
Spiked Amount 50.000			Recovery = 47.00%			
7) Phenol-d5	5.55	99	138700	17.98	mg/L	-0.01
Spiked Amount 50.000			Recovery = 35.96%			
23) Nitrobenzene-d5	6.67	82	291380	40.77	mg/L	-0.01
Spiked Amount 50.000			Recovery = 81.54%			
41) 2-Fluorobiphenyl	8.89	172	626178	40.87	mg/L	-0.02
Spiked Amount 50.000			Recovery = 81.74%			
61) 2,4,6-Tribromophenol	10.73	330	84754	43.12	mg/L	-0.02
Spiked Amount 50.000			Recovery = 86.24%			
73) Terphenyl-d14	13.96	244	489150	42.93	mg/L	-0.04
Spiked Amount 50.000			Recovery = 85.86%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.02	88	1307	0.37	mg/L #	63
5) PGMEA	4.50	43	8713	0.85	mg/L #	24
16) N-Methyl pyrrolidine (NMP)	5.97	99	3839	0.88	mg/L #	44
27) 2,4-Dimethylphenol	7.16	122	1374	0.24	mg/L #	1
28) Benzoic acid	7.16	122	1374	0.35	mg/L	85
54) Diethylphthalate	10.30	149	6627	0.43	mg/L	96
59) N-Nitrosodiphenylamine	10.73	169	3759	0.34	mg/L #	53
62) 4-Bromophenyl phenyl ether	10.73	248	5398	1.11	mg/L #	1
67) Carbazole	11.84	167	652	4.58	mg/L #	70
68) Di-n-butylphthalate	12.39	149	5054	0.21	mg/L #	92
78) Bis(2-ethylhexyl)phthalate	16.11	149	4086	0.50	mg/L #	88
81) Di-n-octylphthalate	17.41	149	4724	0.40	mg/L #	77
84) Benzo(a)pyrene	18.83	252	1203	0.20	mg/L #	1
86) Dibenz(a,h)anthracene	21.45	278	1465	0.35	mg/L #	66
87) Benzo(g,h,i)perylene	22.15	276	1688	0.41	mg/L #	63

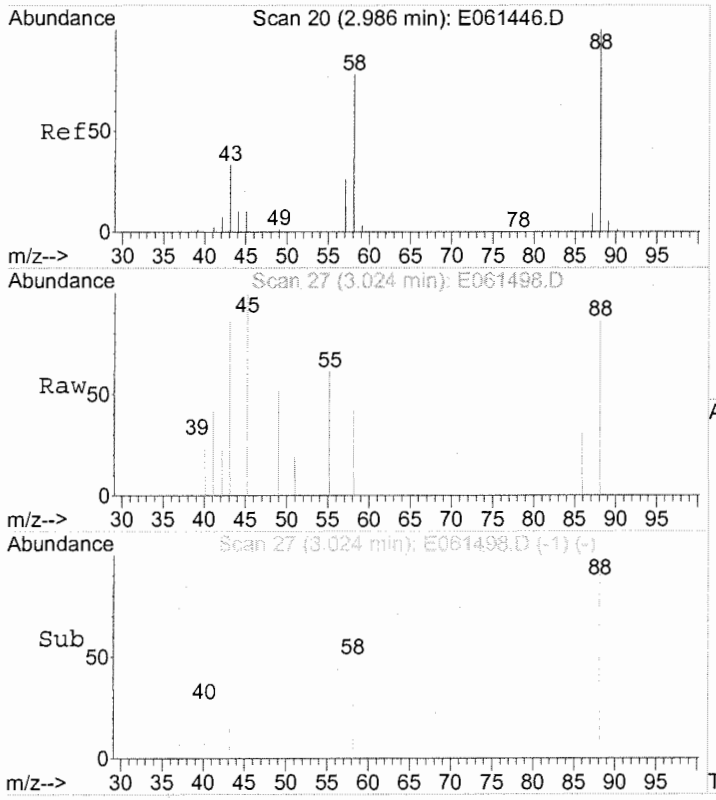
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061498.D Vial: 13
Acq On : 25 Oct 2006 3:03 pm Operator: SC
Sample : D0601625-008 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 15:59 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

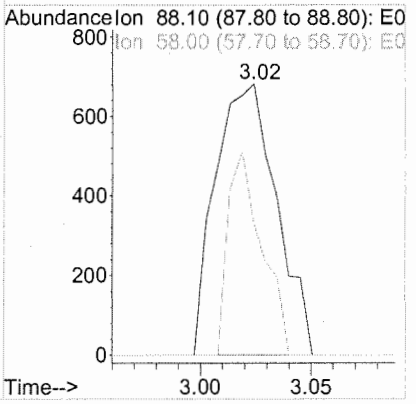


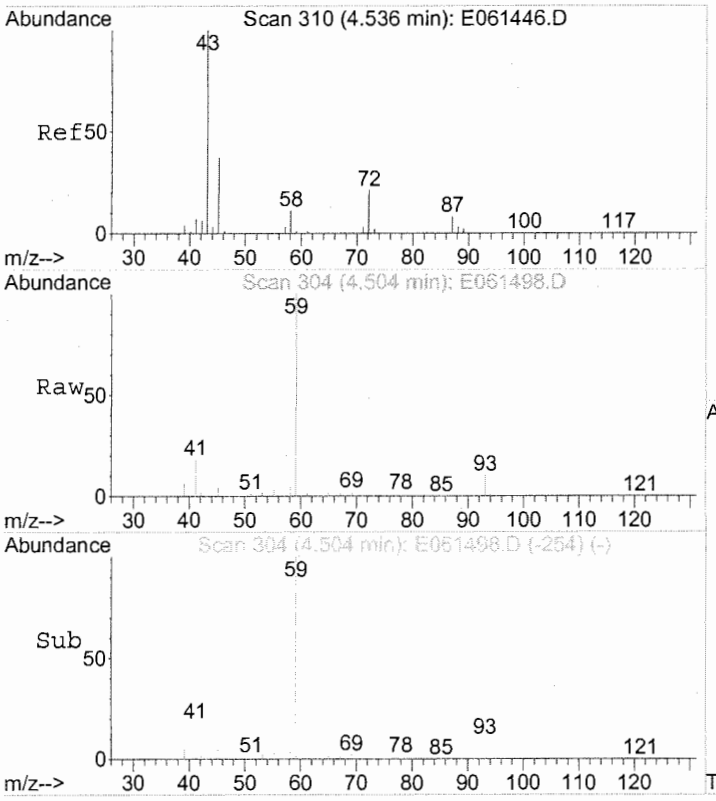


#2
1,4-Dioxane
Concen: 0.37 mg/L
RT: 3.02 min Scan# 27
Delta R.T. 0.04 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion: 88 Resp: 1307

Ion	Ratio	Lower	Upper
88	100		
58	41.5	57.6	86.4#

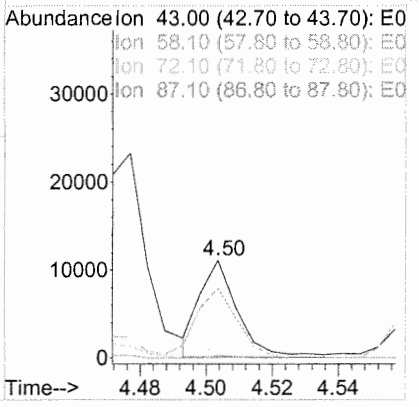


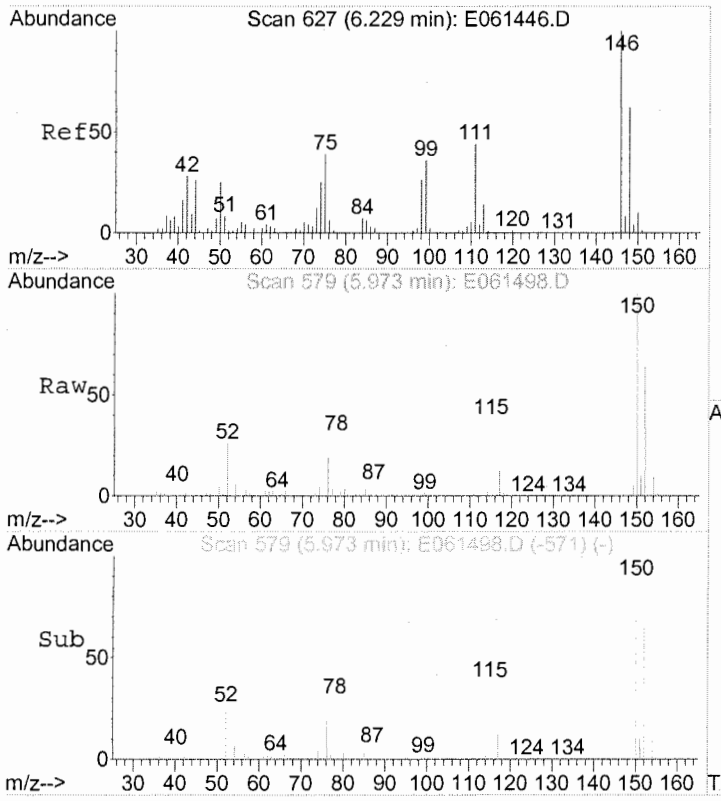


#5
PGMEA
Concen: 0.85 mg/L
RT: 4.50 min Scan# 304
Delta R.T. -0.03 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion: 43 Resp: 8713

Ion	Ratio	Lower	Upper
43	100		
58	78.0	9.4	14.2#
72	0.0	16.8	25.2#
87	1.5	6.6	10.0#

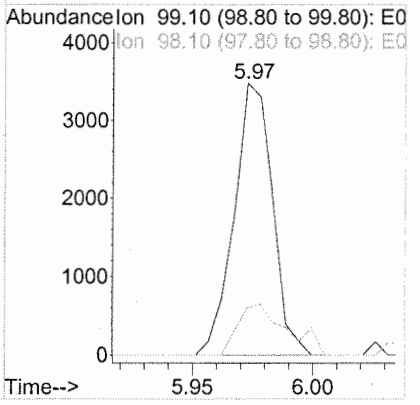


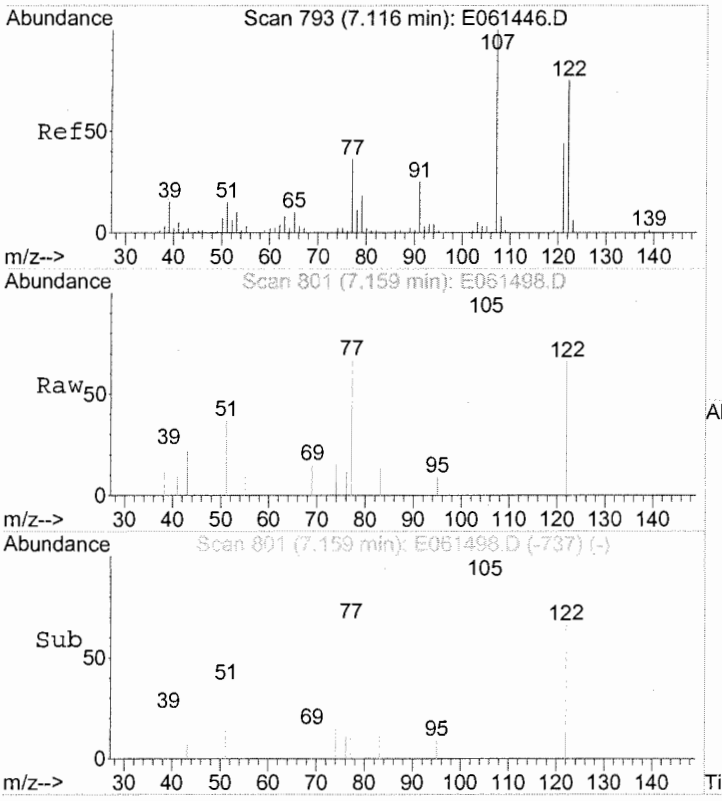


#16
N-Methyl pyrrolidine (NMP)
Concen: 0.88 mg/L
RT: 5.97 min Scan# 579
Delta R.T. -0.26 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion: 99 Resp: 3839

Ion	Ratio	Lower	Upper
99	100		
98	23.7	55.9	83.9#

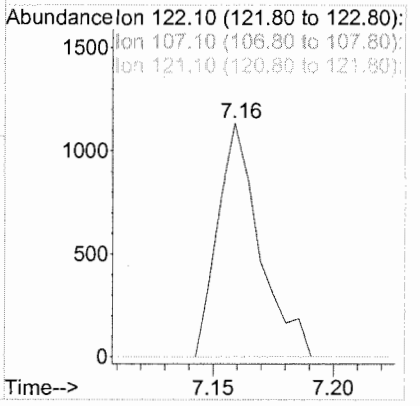


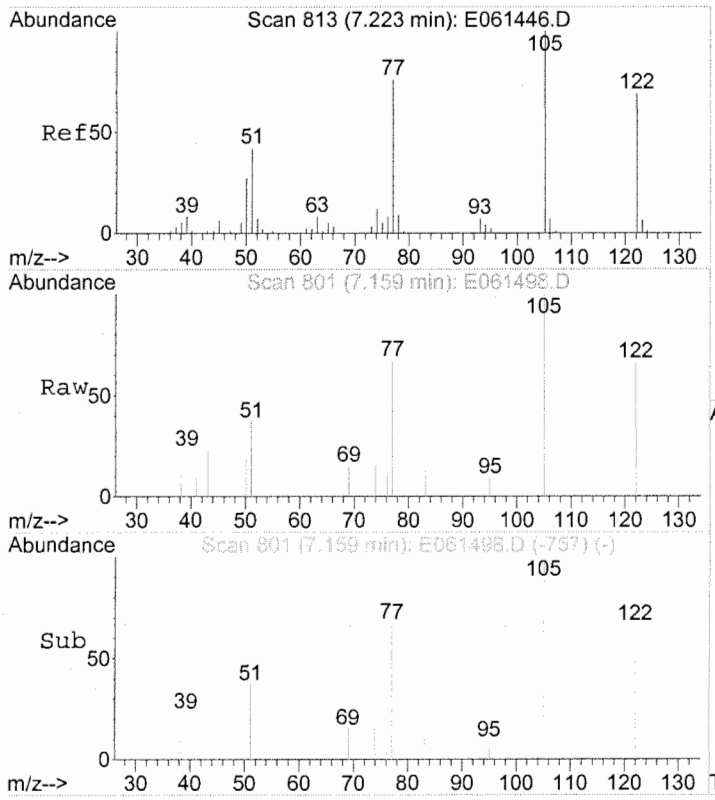


#27
2,4-Dimethylphenol
Concen: 0.24 mg/L
RT: 7.16 min Scan# 801
Delta R.T. 0.04 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:122 Resp: 1374

Ion	Ratio	Lower	Upper
122	100		
107	0.0	97.4	146.0#
121	0.0	47.0	70.4#

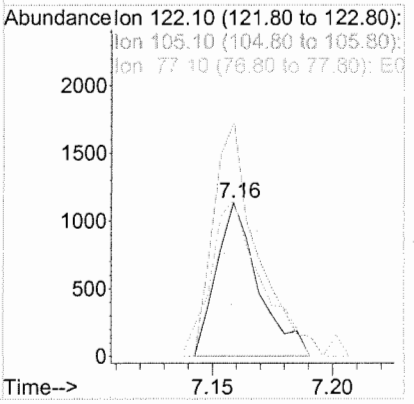


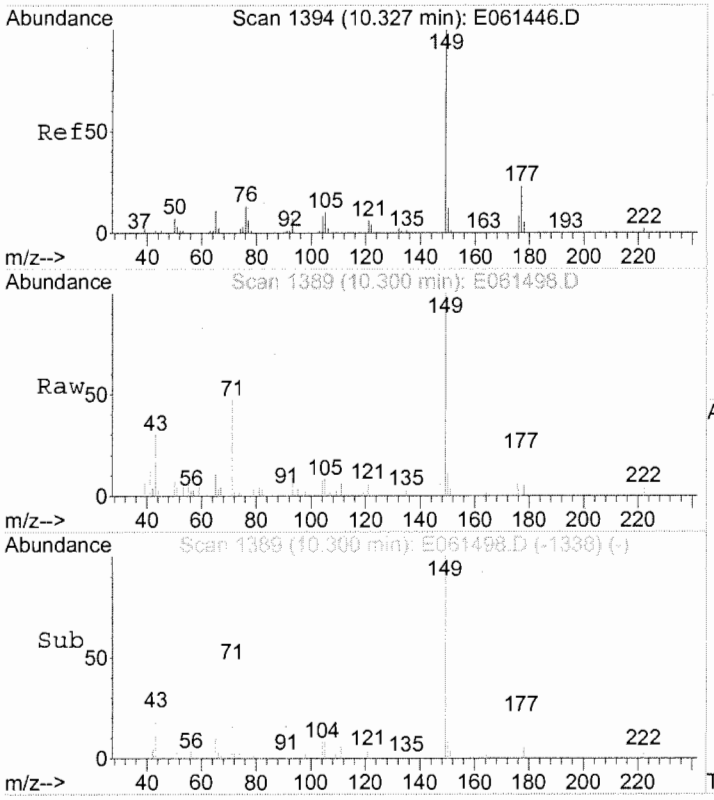


#28
Benzoic acid
Concen: 0.35 mg/L
RT: 7.16 min Scan# 801
Delta R.T. -0.06 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:122 Resp: 1374

Ion	Ratio	Lower	Upper
122	100		
105	157.1	110.7	166.1
77	121.4	84.6	126.8

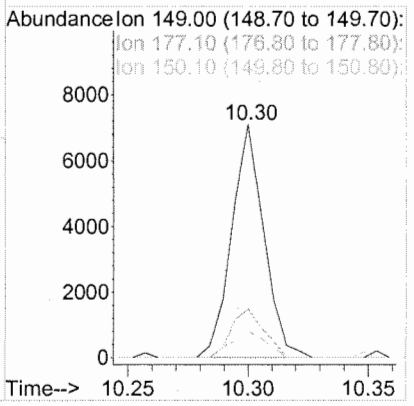


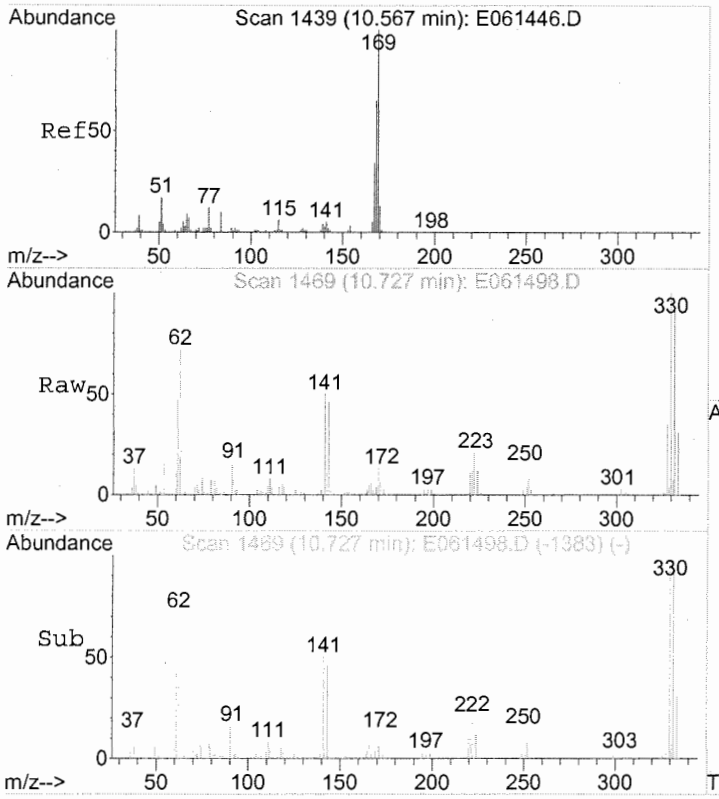


#54
Diethylphthalate
Concen: 0.43 mg/L
RT: 10.30 min Scan# 1389
Delta R.T. -0.03 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:149 Resp: 6627

Ion	Ratio	Lower	Upper
149	100		
177	20.9	19.0	28.4
150	12.0	9.9	14.9

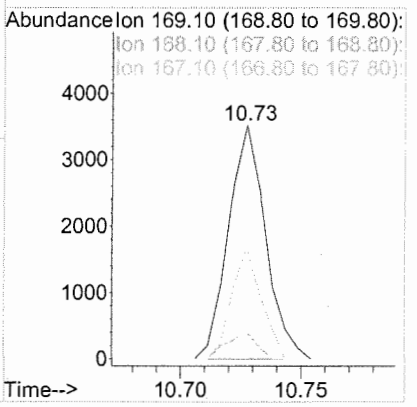


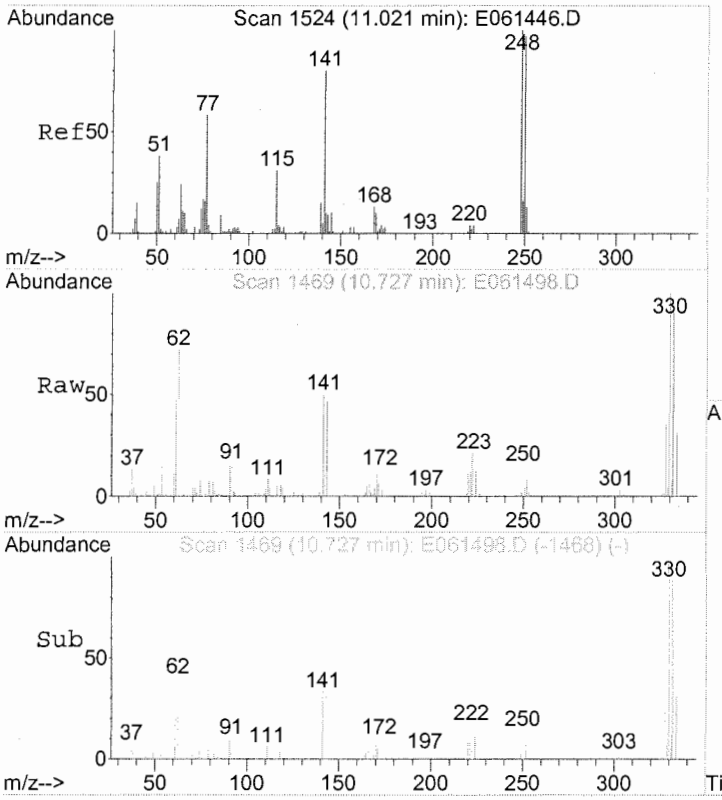


#59
N-Nitrosodiphenylamine
Concen: 0.34 mg/L
RT: 10.73 min Scan# 1469
Delta R.T. 0.16 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:169 Resp: 3759

Ion	Ratio	Lower	Upper
169	100		
168	9.2	51.3	76.9#
167	37.5	27.7	41.5

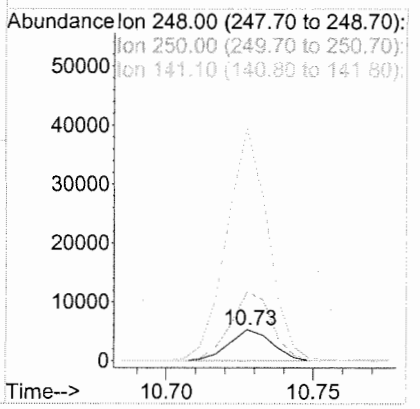


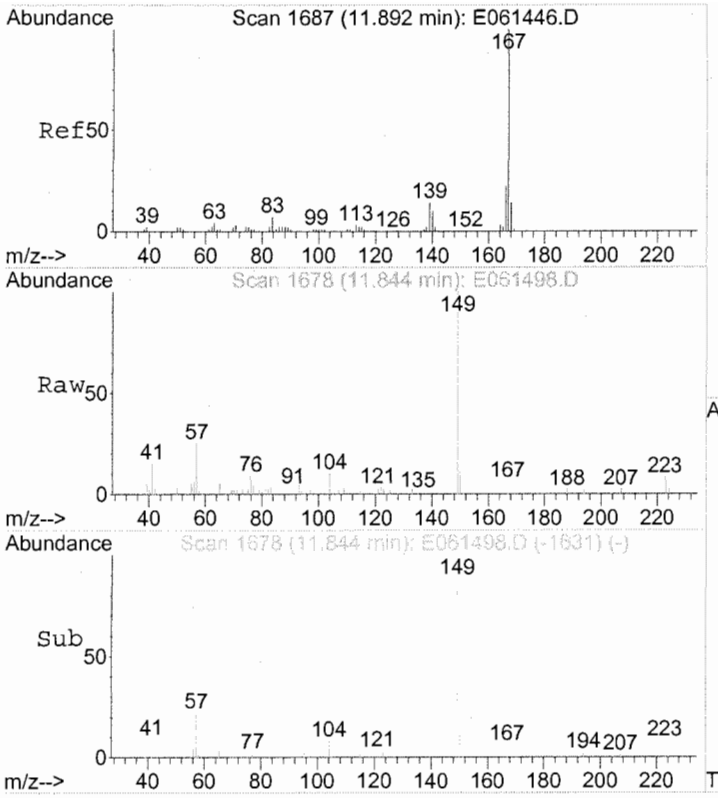


#62
4-Bromophenyl phenyl ether
Concen: 1.11 mg/L
RT: 10.73 min Scan# 1469
Delta R.T. -0.29 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:248 Resp: 5398

Ion	Ratio	Lower	Upper
248	100		
250	211.3	77.0	115.6#
141	716.5	55.9	83.9#

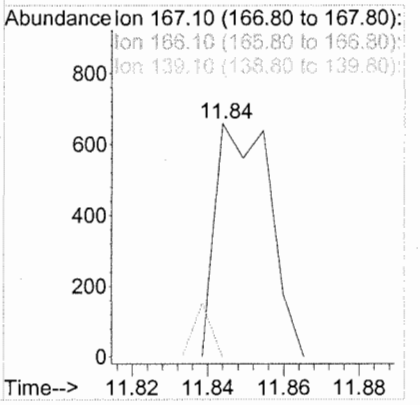


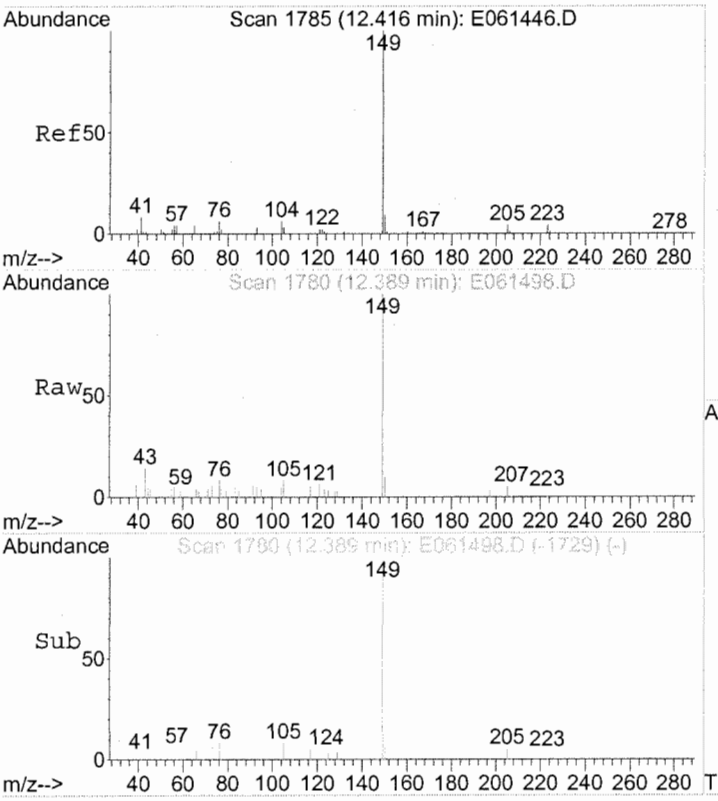


#67
Carbazole
Concen: 4.58 mg/L
RT: 11.84 min Scan# 1678
Delta R.T. -0.05 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:167 Resp: 652

Ion	Ratio	Lower	Upper
167	100		
166	7.5	17.0	25.4#
139	0.0	10.3	15.5#

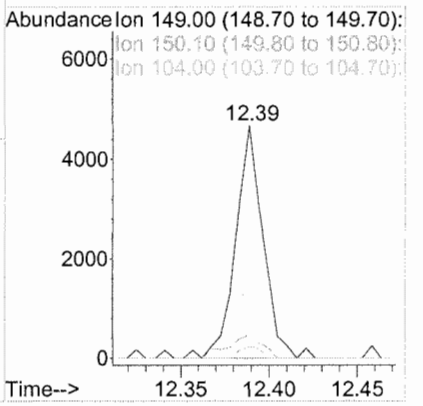


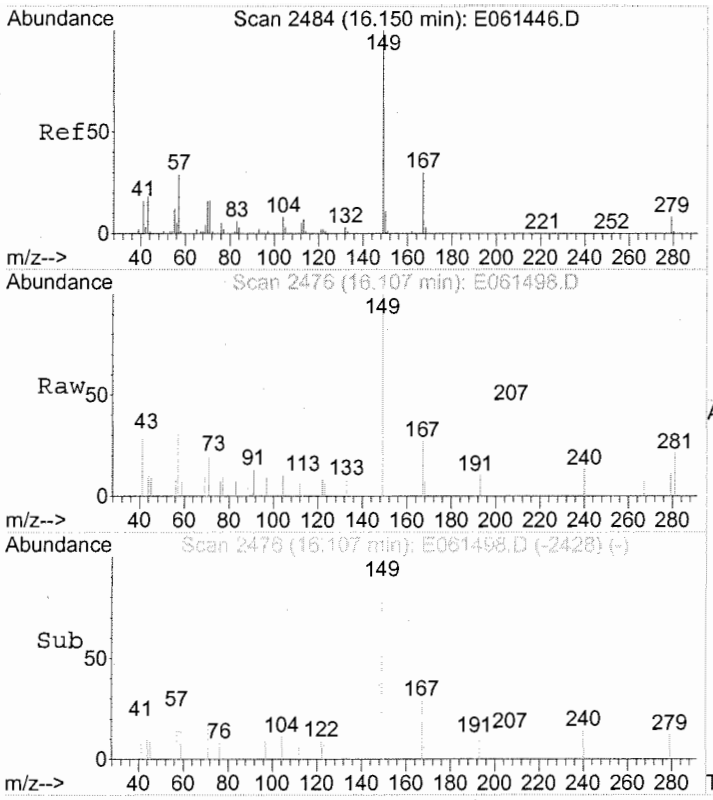


#68
Di-n-butylphthalate
Concen: 0.21 mg/L
RT: 12.39 min Scan# 1780
Delta R.T. -0.03 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:149 Resp: 5054

Ion	Ratio	Lower	Upper
149	100		
150	12.4	7.2	10.8#
104	3.7	4.6	6.8#

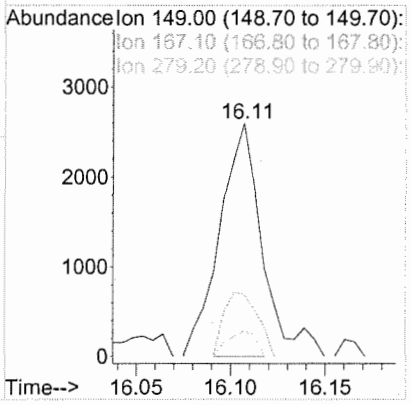


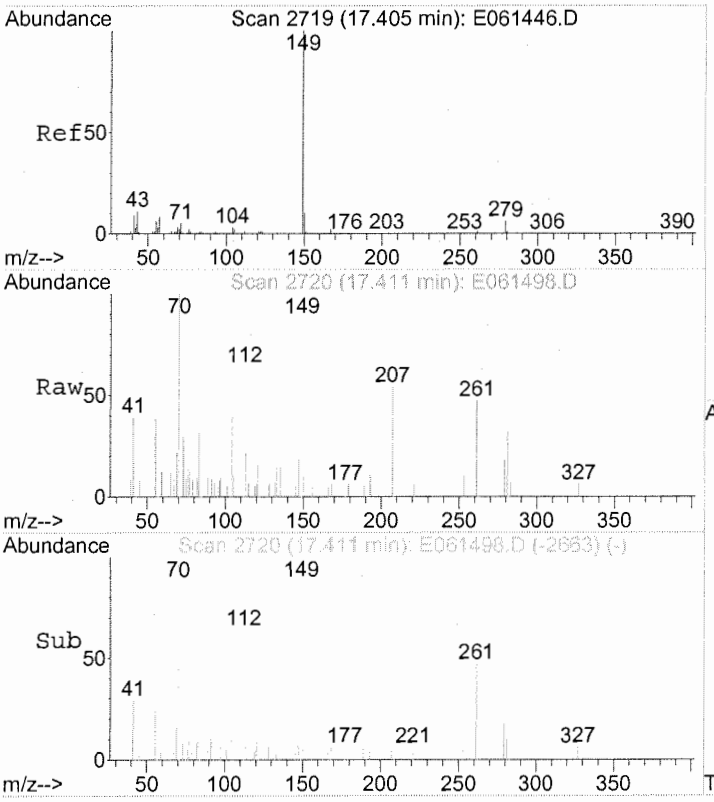


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.50 mg/L
RT: 16.11 min Scan# 2476
Delta R.T. -0.04 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:149 Resp: 4086

Ion	Ratio	Lower	Upper
149	100		
167	21.8	23.5	35.3#
279	7.1	6.1	9.1

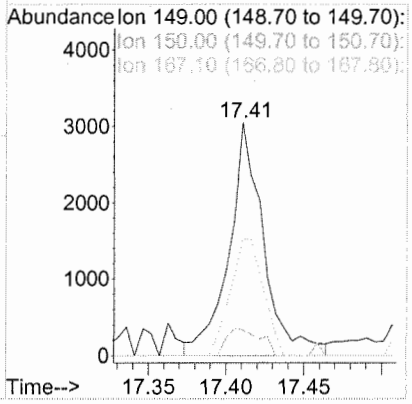


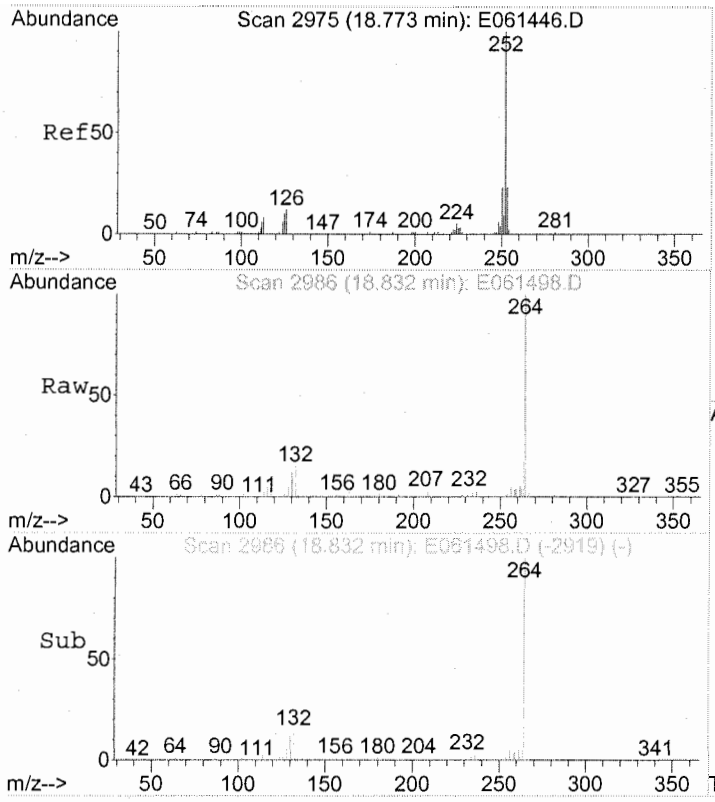


#81
Di-n-octylphthalate
Concen: 0.40 mg/L
RT: 17.41 min Scan# 2720
Delta R.T. 0.01 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:149 Resp: 4724

Ion	Ratio	Lower	Upper
149	100		
150	11.4	7.7	11.5
167	47.4	1.4	2.0#

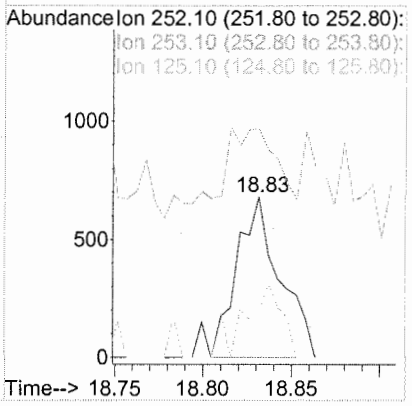


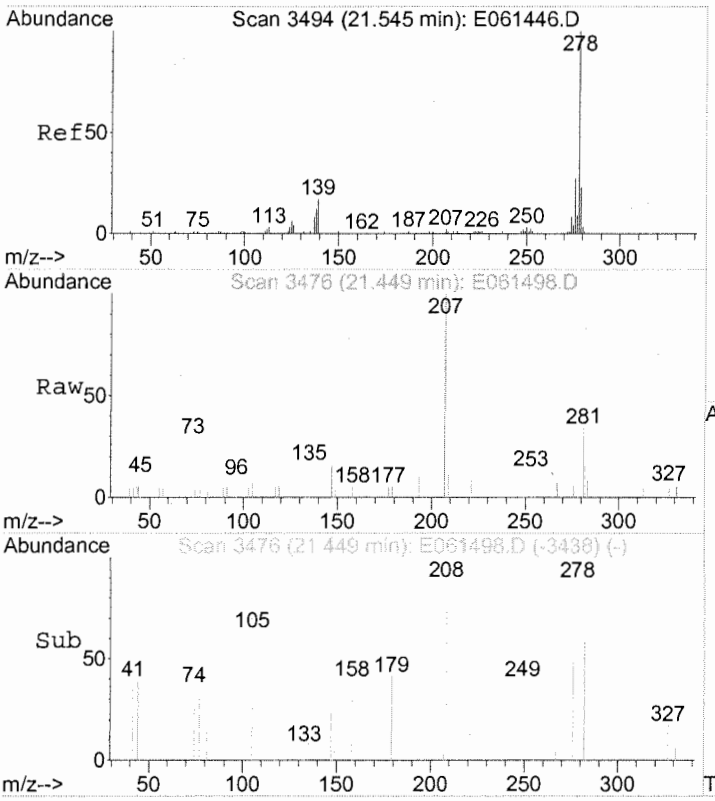


#84
Benzo(a)pyrene
Concen: 0.20 mg/L
RT: 18.83 min Scan# 2986
Delta R.T. 0.06 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:252 Resp: 1203

Ion	Ratio	Lower	Upper
252	100		
253	72.7	17.3	25.9#
125	38.6	7.7	11.5#

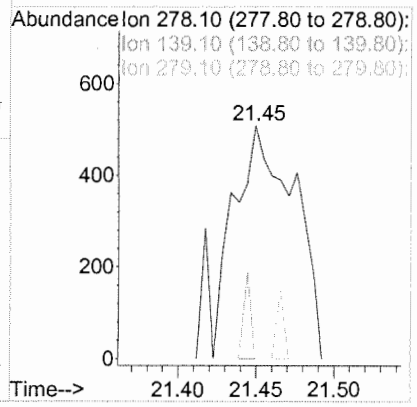


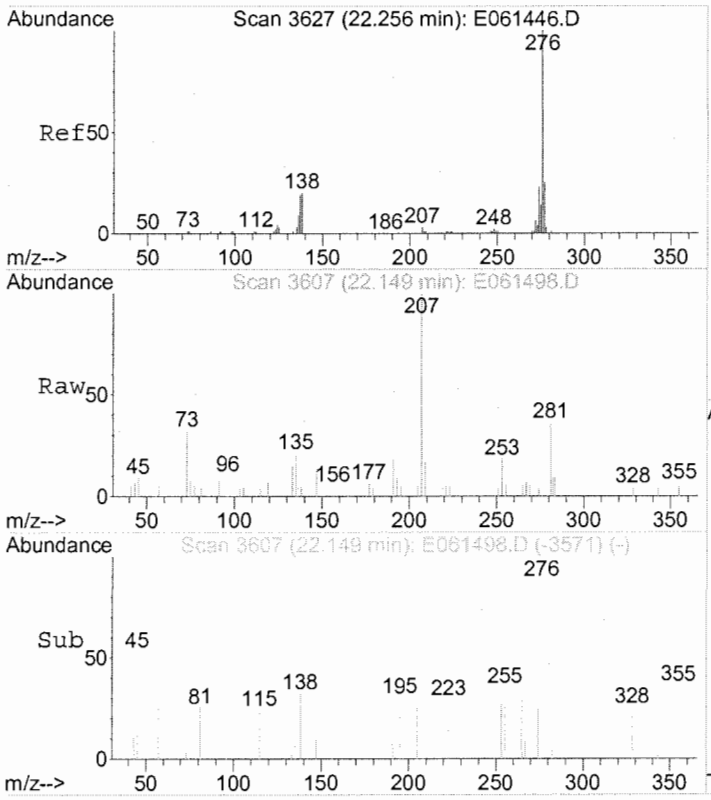


#86
Dibenz(a,h)anthracene
Concen: 0.35 mg/L
RT: 21.45 min Scan# 3476
Delta R.T. -0.10 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:278 Resp: 1465

Ion	Ratio	Lower	Upper
278	100		
139	4.2	12.2	18.2#
279	3.9	17.8	26.8#

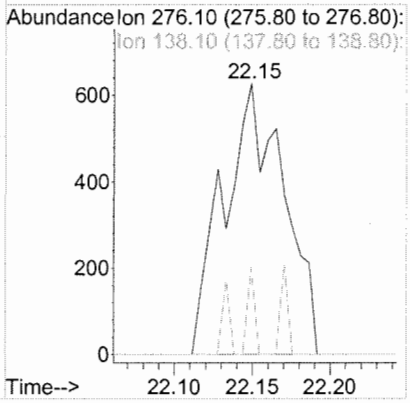




#87
Benzo(g,h,i)perylene
Concen: 0.41 mg/L
RT: 22.15 min Scan# 3607
Delta R.T. -0.11 min
Lab File: E061498.D
Acq: 25 Oct 2006 3:03 pm

Tgt Ion:276 Resp: 1688

Ion	Ratio	Lower	Upper
276	100		
138	3.9	17.2	25.8#



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8270C	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600915	**Prep Lot:**	DWG0600914	**Report Group:**	D0601625
Analysis Method:	8270C	**Prep Method:**	EPA 3510C/3520C		
Prep Ref:	75173	**Prep Date:**	10/23/2006		

Quant Method:	C:\MSDCHEM\1\METHODS\BA061011.M	**Calibration ID:**	CAL1207
Title:	Semivolatile Organic Compounds by EPA Method 8270C	**Report List ID:**	LJ1400
Tune Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061486.D	**Method ID:**	MJ360
MB Ref:	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061499.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 15:36	**Quant Date:**	10/25/2006 16:03	**Vial:**	14
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-009			**Soln Conc. Units:**	mg/L

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	1,4-Dichlorobenzene-d4	5.98	0.00?	152	204860	40.00	OK
2	Naphthalene-d8	7.54	0.00?	136	776903	40.00	OK
3	Acenaphthene-d10	9.75	0.00?	164	486131	40.00	OK
4	Phenanthrene-d10	11.58	0.00?	188	816400	40.00	OK
5	Chrysene-d12	15.96	0.00?	240	428297	40.00	OK
6	Perylene-d12	18.84	0.00?	264	252231	40.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	2-Fluorophenol	4.61	0.00	0.00	112	148237	26.94	54	23-115	OK	
1	Phenol-d5	5.55	0.00	0.00	99	253335	34.46	69	23-121	OK	
2	Nitrobenzene-d5	6.67	0.00	0.00	82	262142	38.53	77	42-122	OK	
3	2-Fluorobiphenyl	8.90	0.01	0.00	172	566226	38.73	77	47-110	OK	
4	2,4,6-Tribromophenol	10.73	-0.01	0.00	330	75628	40.83	82	31-112	OK	
5	Terphenyl-d14	13.97	0.00	0.00	244	364038	32.05	64	37-130	OK	

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,4-Dioxane	3.01	0.01	0.00	88	2407	0.7100	0.70	J	
1	N-Nitrosodimethylamine				42	0		0.48	U	
1	Pyridine				79	0		0.33	U	
1	Phenol				94	0d		0.11	U	
1	Aniline				93	0		0.34	U	
1	Bis(2-chloroethyl) Ether				93	0		0.24	U	
1	2-Chlorophenol				128	0		0.24	U	
1	1,3-Dichlorobenzene				146	0		0.20	U	
1	1,4-Dichlorobenzene				146	0		0.24	U	
1	Benzyl alcohol				108	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061499.D		**Instrument:** MSE
Acqu Date:	10/25/2006 15:36	**Quant Date:** 10/25/2006 16:03	**Vial:** 14
Run Type:	SMPL		**Dilution:** 1.0
Lab ID:	D0601625-009		**Soln Conc. Units:** mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichlorobenzene				146	0		0.17	U	
1	2-Methylphenol				108	0		0.32	U	
1	Bis(2-Chloroisopropyl)ether				45	0		0.24	U	
1	4-Methylphenol				107	0		0.28	U	
1	N-Nitrosodi-n-propylamine				70	0		0.28	U	
1	Hexachloroethane				117	0		2.5	U	
2	Nitrobenzene				77	0		0.26	U	
2	Isophorone				82	0		0.30	U	
2	2-Nitrophenol				139	0		0.26	U	
2	2,4-Dimethylphenol				122	0**d**		0.83	U	
2	Benzoic acid				122	0**d**		20	U	
2	bis(2-Chloroethoxy)methane				93	0		0.32	U	
2	2,4-Dichlorophenol				162	0		0.23	U	
2	1,2,4-Trichlorobenzene				180	0		0.20	U	
2	Naphthalene				128	0		0.21	U	
2	4-Chloroaniline				127	0		0.36	U	
2	Hexachlorobutadiene				225	0		0.22	U	
2	4-Chloro-3-methylphenol				107	0		0.32	U	
2	2-Methylnaphthalene				142	0		0.18	U	
3	Hexachlorocyclopentadiene				237	0		1.8	U	
3	2,4,6-Trichlorophenol				196	0		0.27	U	
3	2,4,5-Trichlorophenol				196	0		0.28	U	
3	2-Chloronaphthalene				162	0		0.22	U	
3	2-Nitroaniline				65	0		0.27	U	
3	Dimethyl Phthalate				163	0		0.26	U	
3	Acenaphthylene				152	0		0.23	U	
3	2,6-Dinitrotoluene				165	0**d**		0.30	U	
3	3-Nitroaniline				138	0		0.29	U	
3	Acenaphthene				154	0		0.15	U	
3	2,4-Dinitrophenol				184	0**d**		10	U	
3	4-Nitrophenol				109	0		20	U	
3	Dibenzofuran				168	0		0.22	U	
3	2,4-Dinitrotoluene				165	0		0.30	U	
3	Fluorene				166	0		0.22	U	
3	Diethyl Phthalate	10.31		0.00	149	7783	0.5300	0.52	J	
3	4-Chlorophenyl Phenyl Ether				204	0		0.21	U	
3	4-Nitroaniline				138	0**d**		0.36	U	
4	2-Methyl-4,6-dinitrophenol				198	0		0.20	U	
4	N-Nitrosodiphenylamine				169	0**d**		0.23	U	
4	4-Bromophenyl Phenyl Ether				248	0**d**		0.18	U	
4	Hexachlorobenzene				284	0		0.21	U	
4	Pentachlorophenol				266	0		0.63	U	
4	Phenanthrene				178	0		0.22	U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acccptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	Q:\TARGET\CHEM\MSE.I\E061025\E061499.D			**Instrument:**	MSE
Acqu Date:	10/25/2006 15:36	**Quant Date:**	10/25/2006 16:03	**Vial:**	14
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-009			**Soln Conc. Units:**	mg/L

Target Compounds **Final Conc. Units:** ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
4	Anthracene				178	0		0.21	U	
4	Di-n-butyl Phthalate	12.39		0.00	149	16021	0.7100	0.70	J	
4	Fluoranthene				202	0		0.21	U	
5	Pyrene				202	0		0.33	U	
5	Butyl Benzyl Phthalate				149	0**d**		0.48	U	
5	3,3'-Dichlorobenzidine				252	0		0.84	U	
5	Benz(a)anthracene				228	0		0.21	U	
5	Chrysene				228	0		0.22	U	
5	Bis(2-ethylhexyl) Phthalate	16.11	-0.01	0.00	149	4411	0.5500	0.54	J	
6	Di-n-octyl Phthalate				149	0**d**		0.33	U	
6	Benzo(b)fluoranthene				252	0		0.42	U	
6	Benzo(k)fluoranthene				252	0		0.32	U	
6	Benzo(a)pyrene				252	0		0.54	U	
6	Indeno(1,2,3-cd)pyrene				276	0		0.65	U	
6	Dibenz(a,h)anthracene				278	0**d**		0.62	U	
6	Benzo(g,h,i)perylene				276	0**d**		0.74	U	

Prep Amount:	1010 ml	**Dilution:**	1.0
Prep Final Vol:	1 ml	**Unit Factor:**	1000

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061499.D Vial: 14
Acq On : 25 Oct 2006 3:36 pm Operator: SC
Sample : D0601625-009 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 16:01:59 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

10/26/06

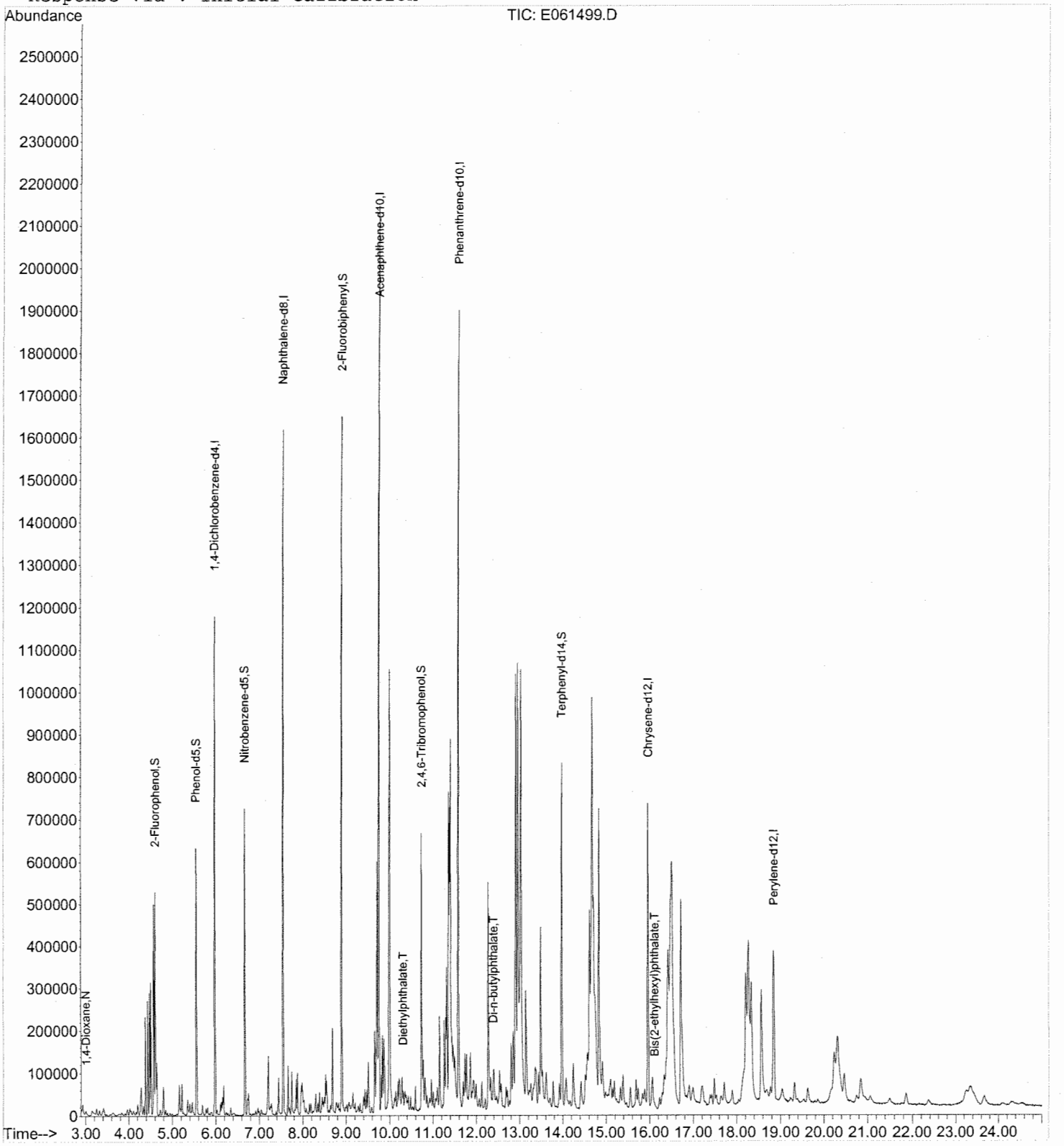
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	204860	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	776903	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	486131	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	816400	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	428297	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	252231	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	148237	26.94	mg/L	0.00
Spiked Amount 50.000			Recovery =	53.88%		
7) Phenol-d5	5.55	99	253335	34.46	mg/L	0.00
Spiked Amount 50.000			Recovery =	68.92%		
23) Nitrobenzene-d5	6.67	82	262142	38.53	mg/L	-0.01
Spiked Amount 50.000			Recovery =	77.06%		
41) 2-Fluorobiphenyl	8.90	172	566226	38.73	mg/L	-0.02
Spiked Amount 50.000			Recovery =	77.46%		
61) 2,4,6-Tribromophenol	10.73	330	75628	40.83	mg/L	-0.02
Spiked Amount 50.000			Recovery =	81.66%		
73) Terphenyl-d14	13.97	244	364038	32.05	mg/L	-0.03
Spiked Amount 50.000			Recovery =	64.10%		
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	2407	0.71	mg/L	98
54) Diethylphthalate	10.31	149	7783	0.53	mg/L	99
68) Di-n-butylphthalate	12.39	149	16021	0.71	mg/L #	97
78) Bis(2-ethylhexyl)phthalate	16.11	149	4411	0.55	mg/L #	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061499.D BA061011.M Wed Oct 25 16:03:41 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061499.D Vial: 14
Acq On : 25 Oct 2006 3:36 pm Operator: SC
Sample : D0601625-009 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 16:03 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061499.D Vial: 14
Acq On : 25 Oct 2006 3:36 pm Operator: SC
Sample : D0601625-009 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 16:01:59 2006 Quant Results File: BA061011.RES

Quant Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration
DataAcq Meth : 8270

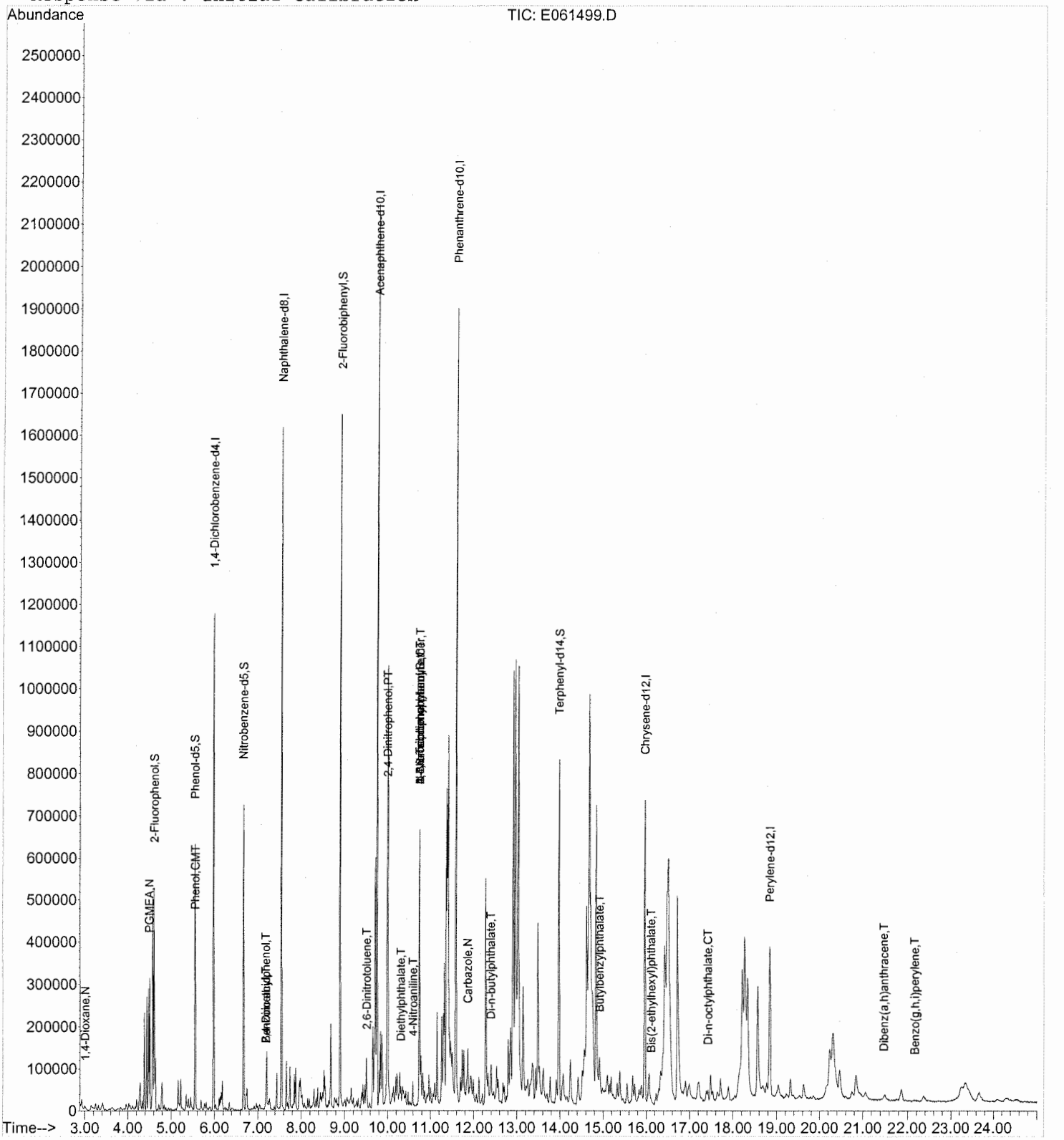
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.98	152	204860	40.00	mg/L	-0.01
22) Naphthalene-d8	7.54	136	776903	40.00	mg/L	-0.02
37) Acenaphthene-d10	9.75	164	486131	40.00	mg/L	-0.02
57) Phenanthrene-d10	11.58	188	816400	40.00	mg/L	-0.02
70) Chrysene-d12	15.96	240	428297	40.00	mg/L	-0.05
80) Perylene-d12	18.84	264	252231	40.00	mg/L	-0.06
System Monitoring Compounds						
6) 2-Fluorophenol	4.61	112	148237	26.94	mg/L	0.00
Spiked Amount 50.000			Recovery = 53.88%			
7) Phenol-d5	5.55	99	253335	34.46	mg/L	0.00
Spiked Amount 50.000			Recovery = 68.92%			
23) Nitrobenzene-d5	6.67	82	262142	38.53	mg/L	-0.01
Spiked Amount 50.000			Recovery = 77.06%			
41) 2-Fluorobiphenyl	8.90	172	566226	38.73	mg/L	-0.02
Spiked Amount 50.000			Recovery = 77.46%			
61) 2,4,6-Tribromophenol	10.73	330	75628	40.83	mg/L	-0.02
Spiked Amount 50.000			Recovery = 81.66%			
73) Terphenyl-d14	13.97	244	364038	32.05	mg/L	-0.03
Spiked Amount 50.000			Recovery = 64.10%			
Target Compounds						Qvalue
2) 1,4-Dioxane	3.01	88	2407	0.71	mg/L	98
5) PGMEA	4.50	43	7977	0.82	mg/L #	19
8) Phenol	5.56	94	6012	0.76	mg/L #	1
27) 2,4-Dimethylphenol	7.18	122	3235	0.59	mg/L #	2
28) Benzoic acid	7.18	122	3235	0.86	mg/L	94
46) 2,6-Dinitrotoluene	9.51	165	725	0.22	mg/L #	19
49) 2,4-Dinitrophenol	9.98	184	59	6.86	mg/L #	25
54) Diethylphthalate	10.31	149	7783	0.53	mg/L	99
56) 4-Nitroaniline	10.59	138	825	0.32	mg/L #	61
59) N-Nitrosodiphenylamine	10.73	169	3446	0.33	mg/L #	45
62) 4-Bromophenyl phenyl ether	10.73	248	4789	1.05	mg/L #	1
67) Carbazole	11.85	167	282	4.56	mg/L #	1
68) Di-n-butylphthalate	12.39	149	16021	0.71	mg/L #	97
74) Butylbenzylphthalate	14.91	149	2509	0.38	mg/L #	92
78) Bis(2-ethylhexyl)phthalate	16.11	149	4411	0.55	mg/L #	89
81) Di-n-octylphthalate	17.42	149	3538	0.28	mg/L #	63
86) Dibenz(a,h)anthracene	21.47	278	1205	0.27	mg/L #	67
87) Benzo(g,h,i)perylene	22.15	276	1399	0.32	mg/L #	64

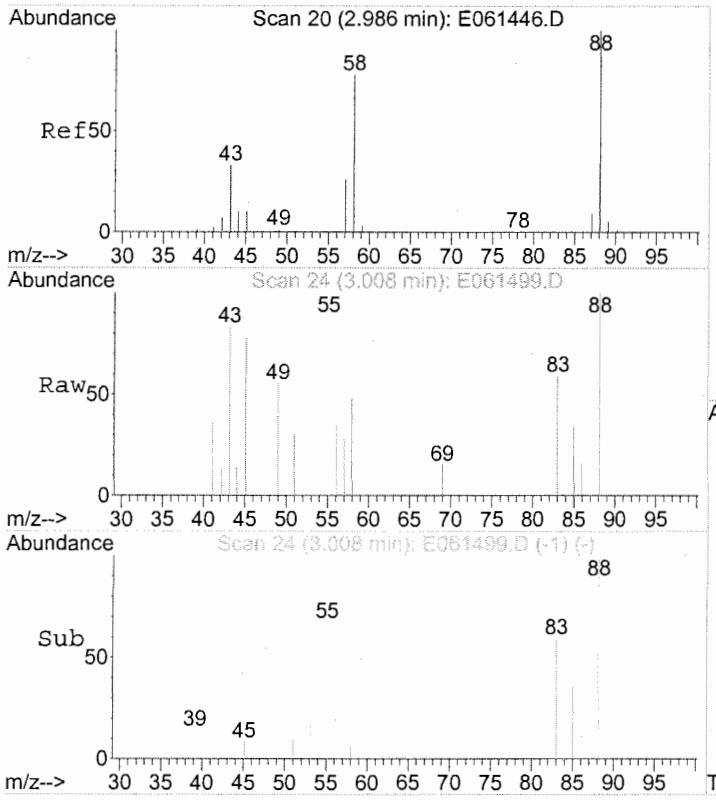
(#) = qualifier out of range (m) = manual integration (+) = signals summed
E061499.D BA061011.M Wed Oct 25 16:02:01 2006 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\E061025\E061499.D Vial: 14
Acq On : 25 Oct 2006 3:36 pm Operator: SC
Sample : D0601625-009 8270W 10/23/06 Inst : MSE
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 25 16:02 2006 Quant Results File: BA061011.RES

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 19 15:12:12 2006
Response via : Initial Calibration

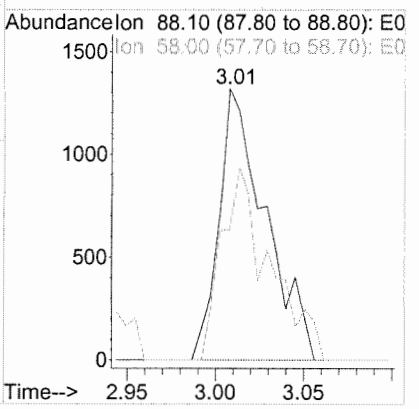


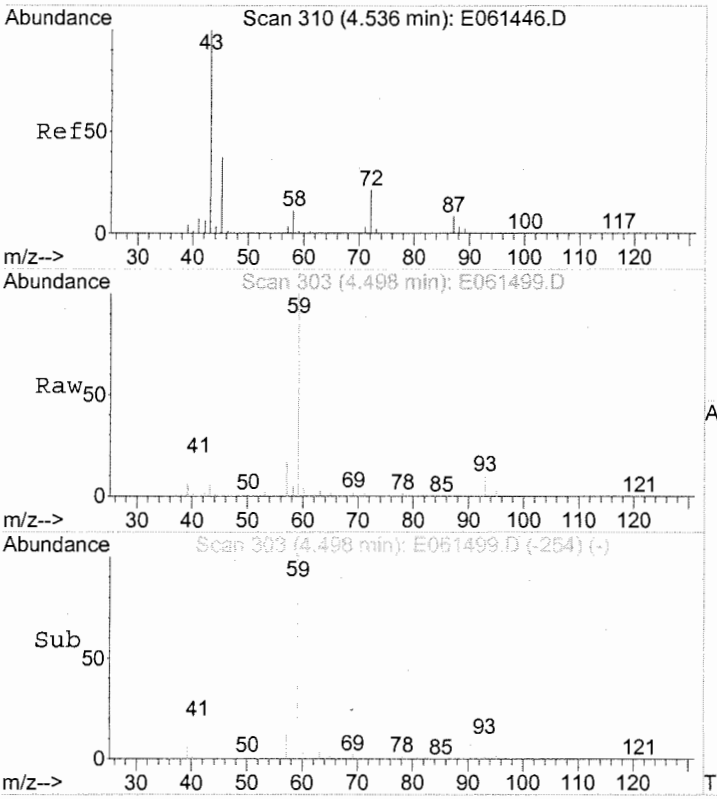


#2
1,4-Dioxane
Concen: 0.71 mg/L
RT: 3.01 min Scan# 24
Delta R.T. 0.02 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion: 88 Resp: 2407

Ion	Ratio	Lower	Upper
88	100		
58	74.0	57.6	86.4

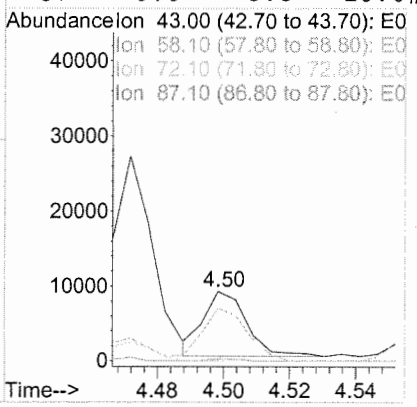


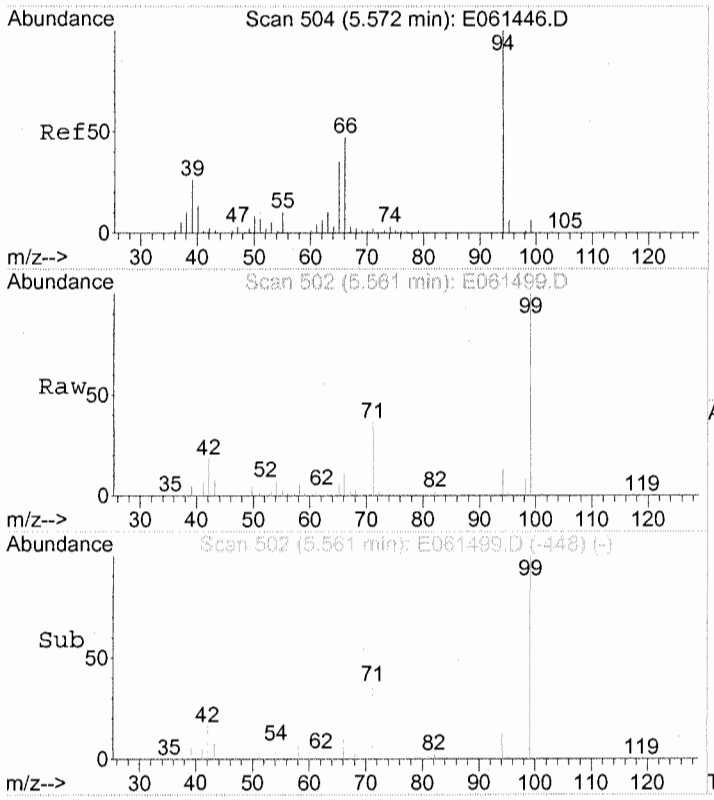


#5
PGMEA
Concen: 0.82 mg/L
RT: 4.50 min Scan# 303
Delta R.T. -0.04 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion: 43 Resp: 7977

Ion	Ratio	Lower	Upper
43	100		
58	83.8	9.4	14.2#
72	0.0	16.8	25.2#
87	0.0	6.6	10.0#

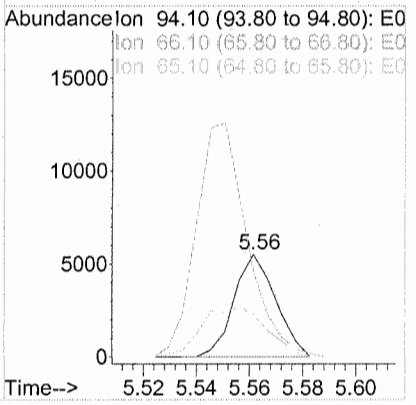


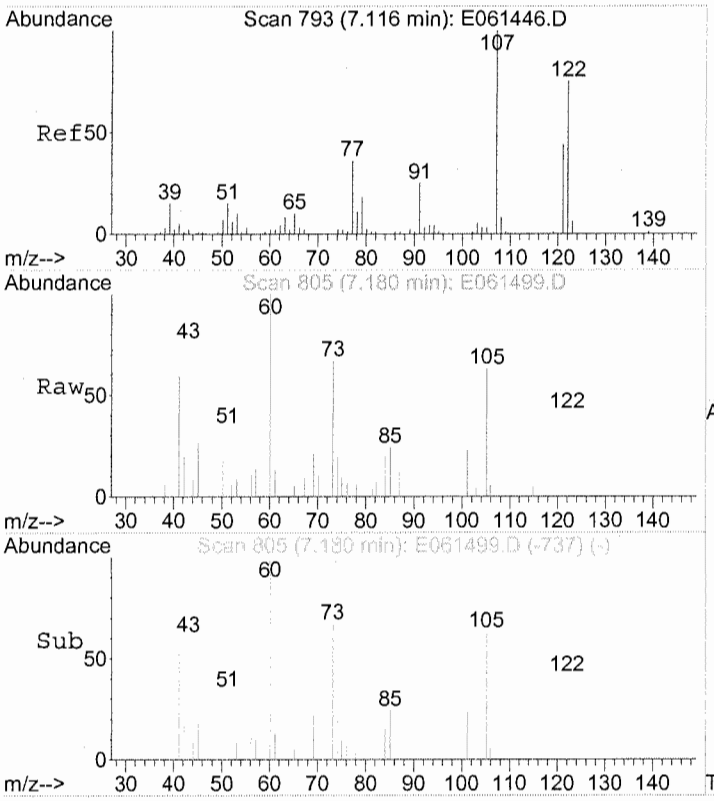


#8
Phenol
Concen: 0.76 mg/L
RT: 5.56 min Scan# 502
Delta R.T. -0.01 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion: 94 Resp: 6012

Ion	Ratio	Lower	Upper
94	100		
66	277.9	36.4	54.6#
65	74.9	26.6	39.8#

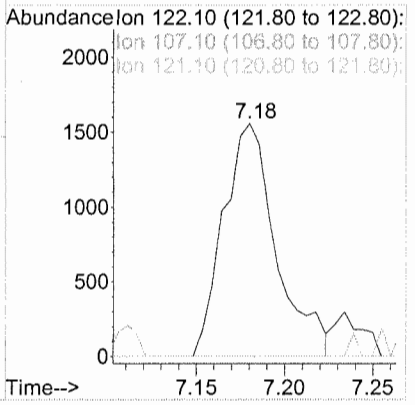


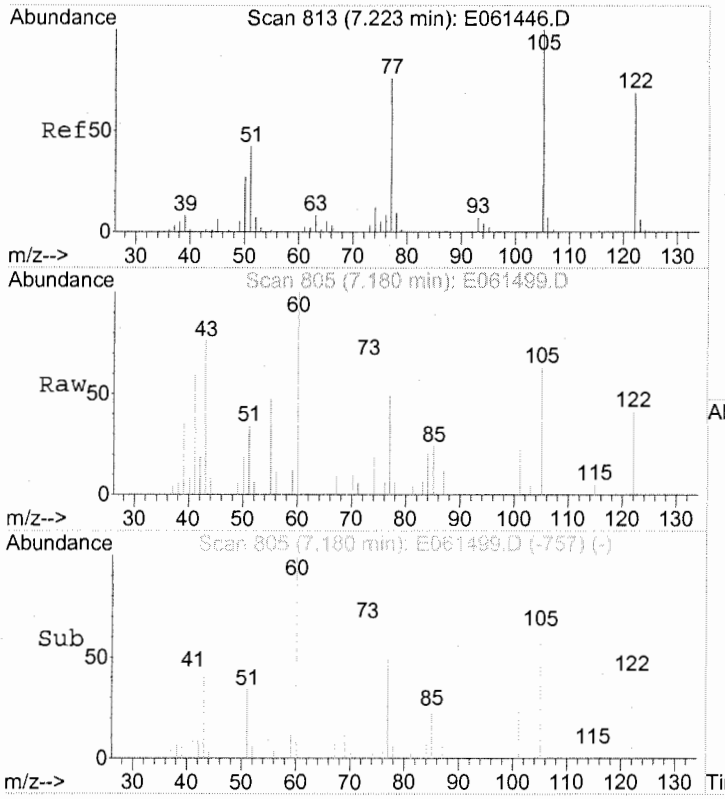


#27
2,4-Dimethylphenol
Concen: 0.59 mg/L
RT: 7.18 min Scan# 805
Delta R.T. 0.06 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:122 Resp: 3235

Ion	Ratio	Lower	Upper
122	100		
107	1.5	97.4	146.0#
121	0.0	47.0	70.4#

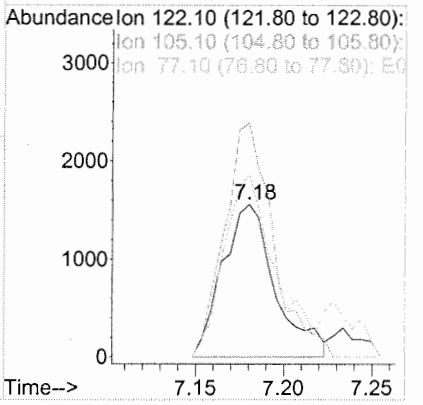


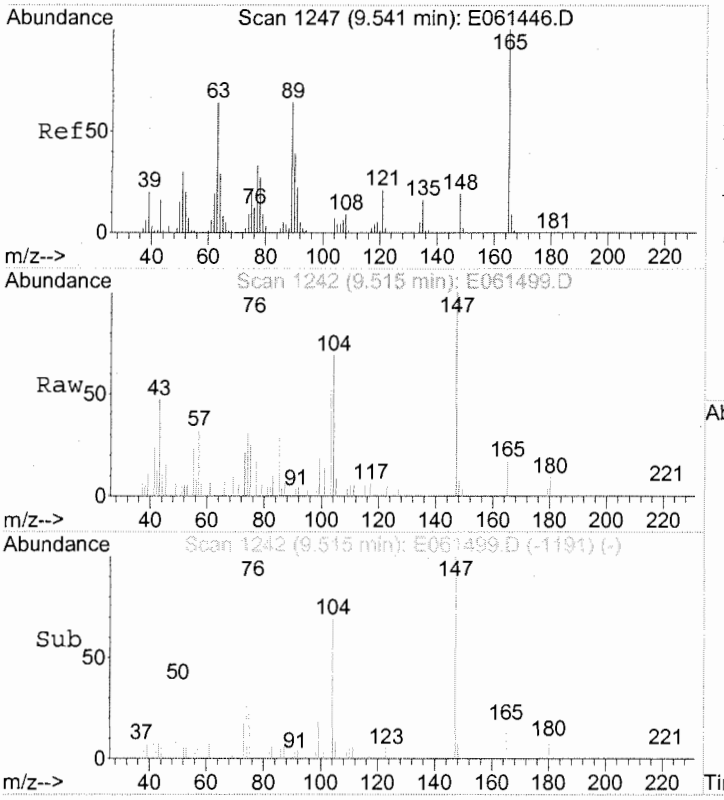


#28
Benzoic acid
Concen: 0.86 mg/L
RT: 7.18 min Scan# 805
Delta R.T. -0.04 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:122 Resp: 3235

Ion	Ratio	Lower	Upper
122	100		
105	141.7	110.7	166.1
77	116.0	84.6	126.8

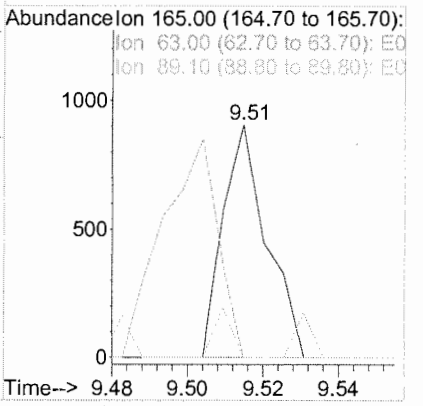


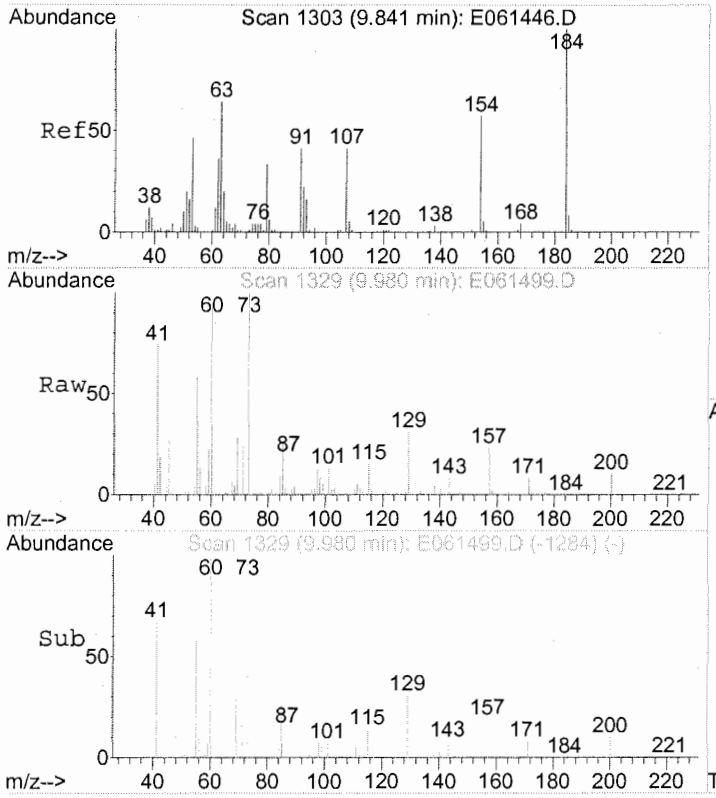


#46
2,6-Dinitrotoluene
Concen: 0.22 mg/L
RT: 9.51 min Scan# 1242
Delta R.T. -0.03 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:165 Resp: 725

Ion	Ratio	Lower	Upper
165	100		
63	120.0	46.5	69.7#
89	0.0	46.2	69.4#

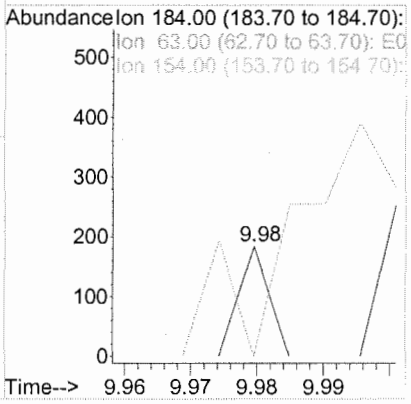


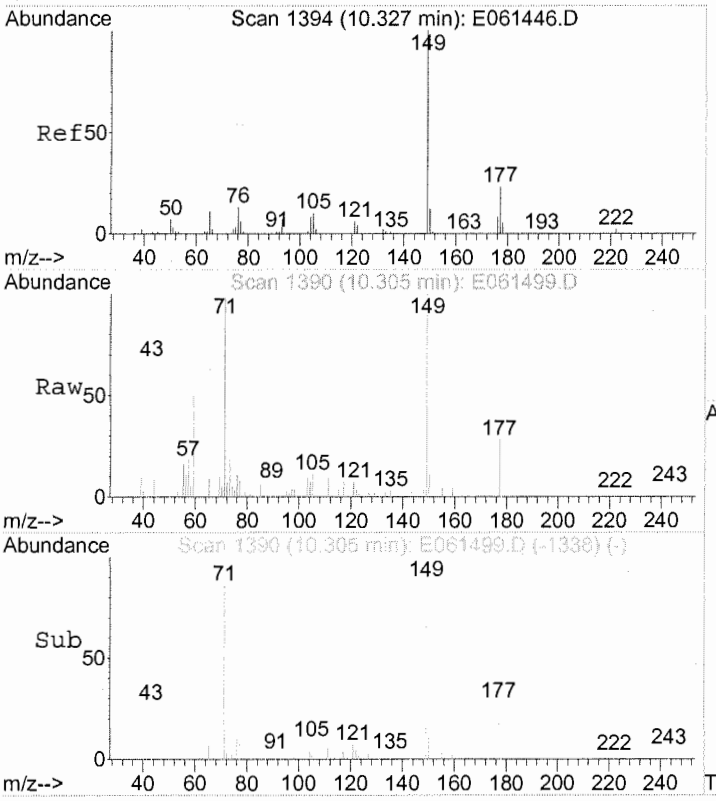


#49
2,4-Dinitrophenol
Concen: 6.86 mg/L
RT: 9.98 min Scan# 1329
Delta R.T. 0.14 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:184 Resp: 59

Ion	Ratio	Lower	Upper
184	100		
63	0.0	43.4	65.0#
154	0.0	42.9	64.3#

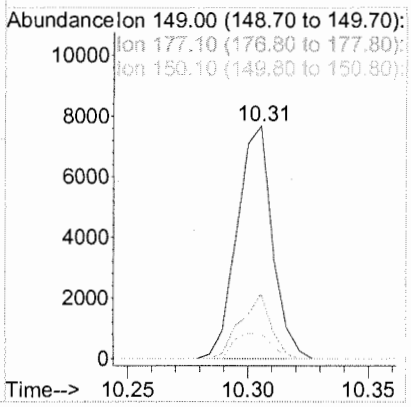


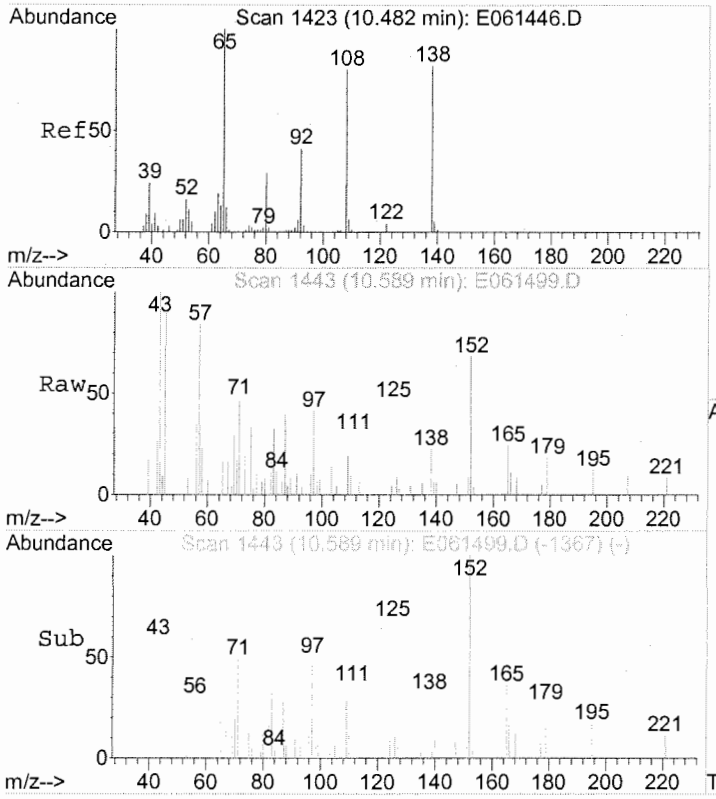


#54
Diethylphthalate
Concen: 0.53 mg/L
RT: 10.31 min Scan# 1390
Delta R.T. -0.02 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:149 Resp: 7783

Ion	Ratio	Lower	Upper
149	100		
177	24.0	19.0	28.4
150	11.3	9.9	14.9

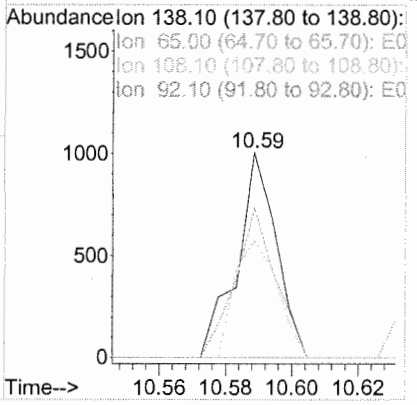


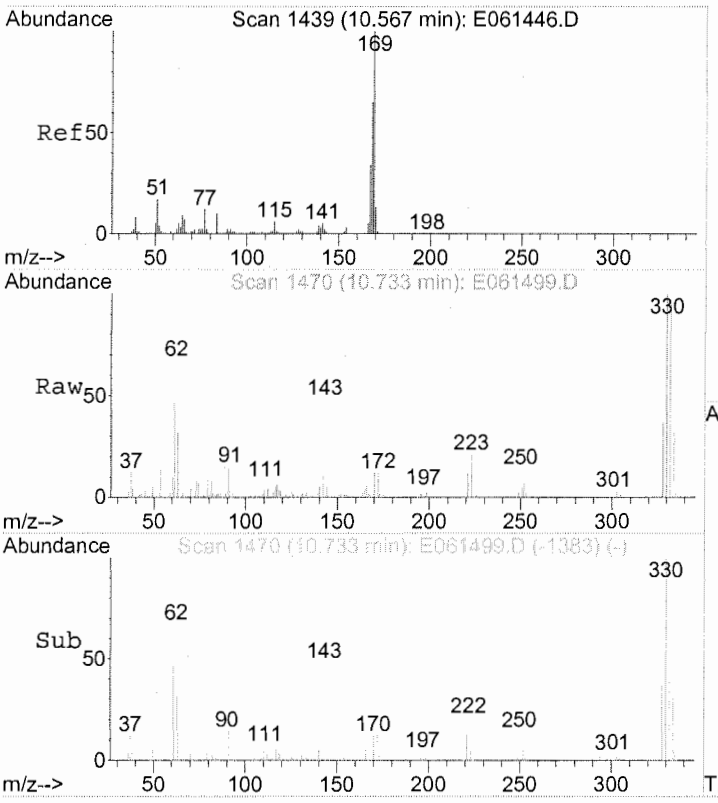


#56
4-Nitroaniline
Concen: 0.32 mg/L
RT: 10.59 min Scan# 1443
Delta R.T. 0.11 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:138 Resp: 825

Ion	Ratio	Lower	Upper
138	100		
65	75.9	88.3	132.5#
108	62.9	71.9	107.9#
92	0.0	38.9	58.3#

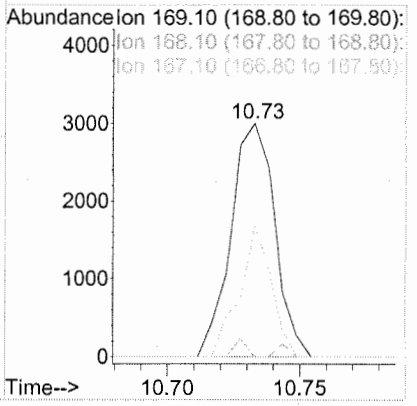


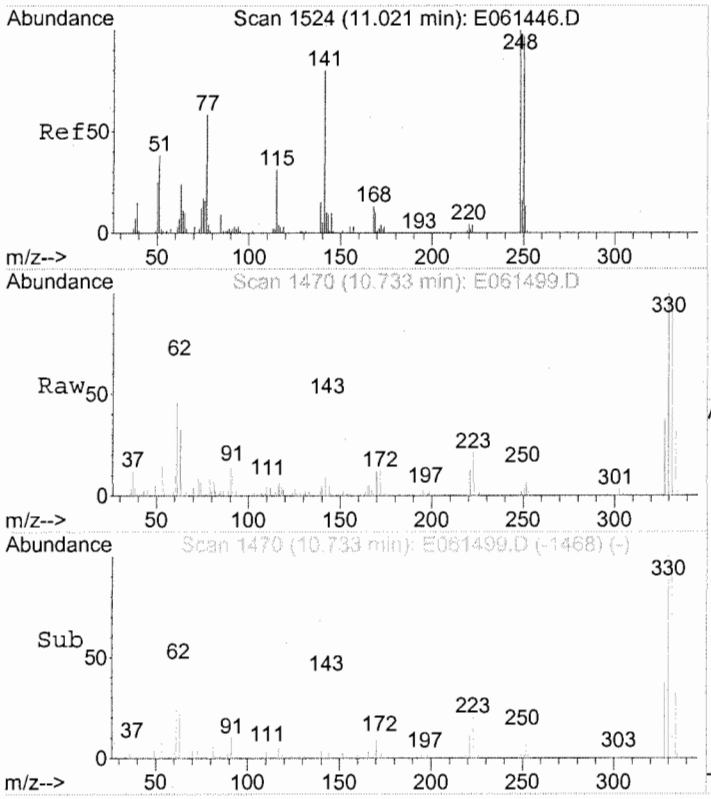


#59
N-Nitrosodiphenylamine
Concen: 0.33 mg/L
RT: 10.73 min Scan# 1470
Delta R.T. 0.17 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:169 Resp: 3446

Ion	Ratio	Lower	Upper
169	100		
168	2.2	51.3	76.9#
167	40.8	27.7	41.5

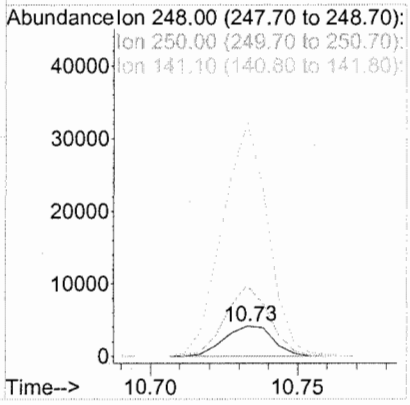


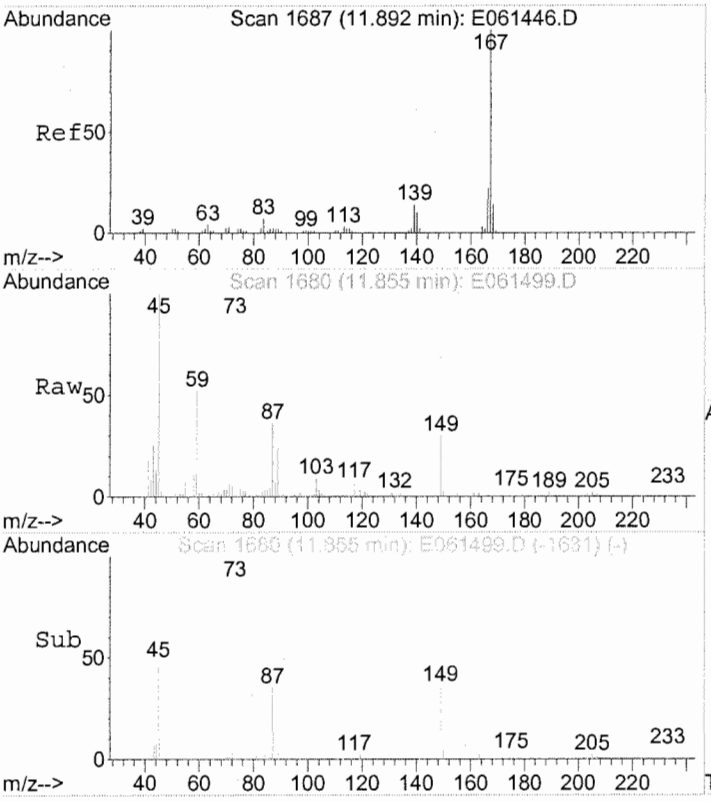


#62
4-Bromophenyl phenyl ether
Concen: 1.05 mg/L
RT: 10.73 min Scan# 1470
Delta R.T. -0.29 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:248 Resp: 4789

Ion	Ratio	Lower	Upper
248	100		
250	210.0	77.0	115.6#
141	718.9	55.9	83.9#

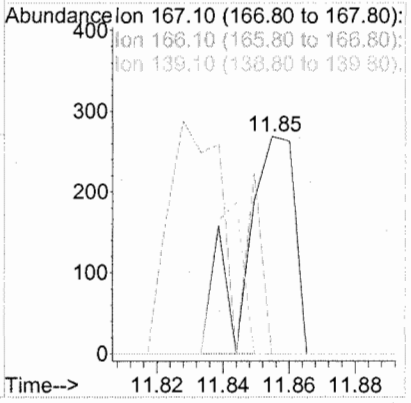


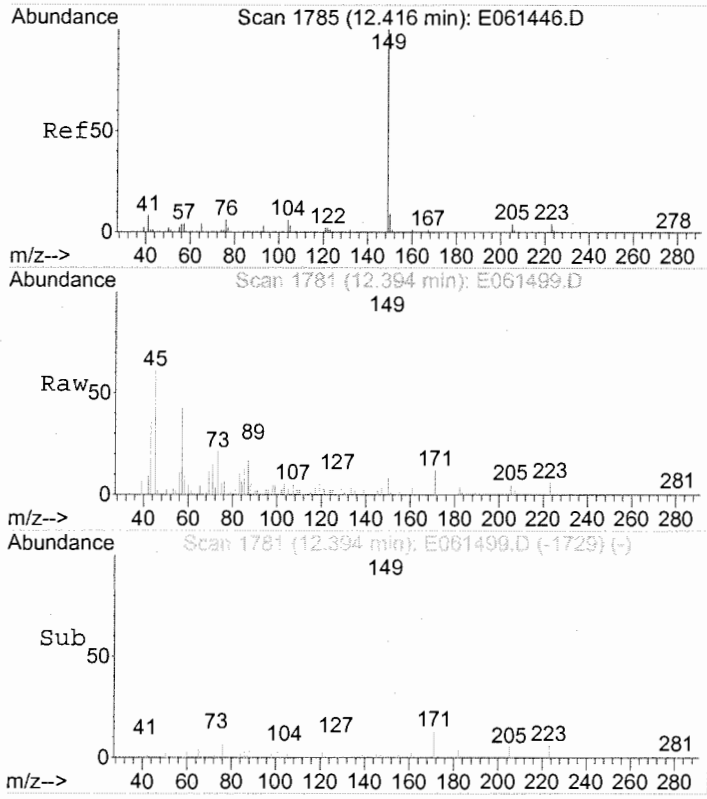


#67
Carbazole
Concen: 4.56 mg/L
RT: 11.85 min Scan# 1680
Delta R.T. -0.04 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:167 Resp: 282

Ion	Ratio	Lower	Upper
167	100		
166	134.4	17.0	25.4#
139	40.1	10.3	15.5#

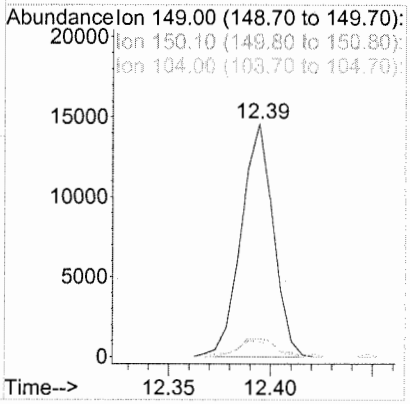


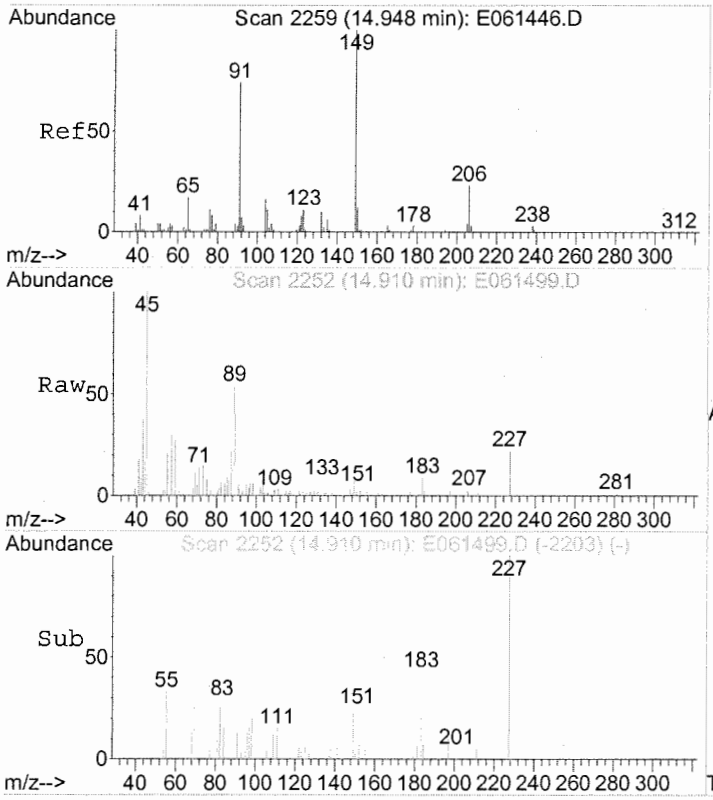


#68
Di-n-butylphthalate
Concen: 0.71 mg/L
RT: 12.39 min Scan# 1781
Delta R.T. -0.02 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:149 Resp: 16021

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.2	10.8
104	7.9	4.6	6.8#

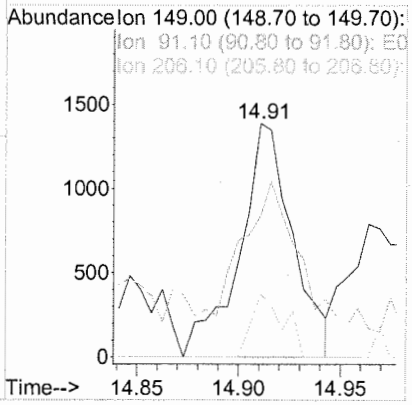


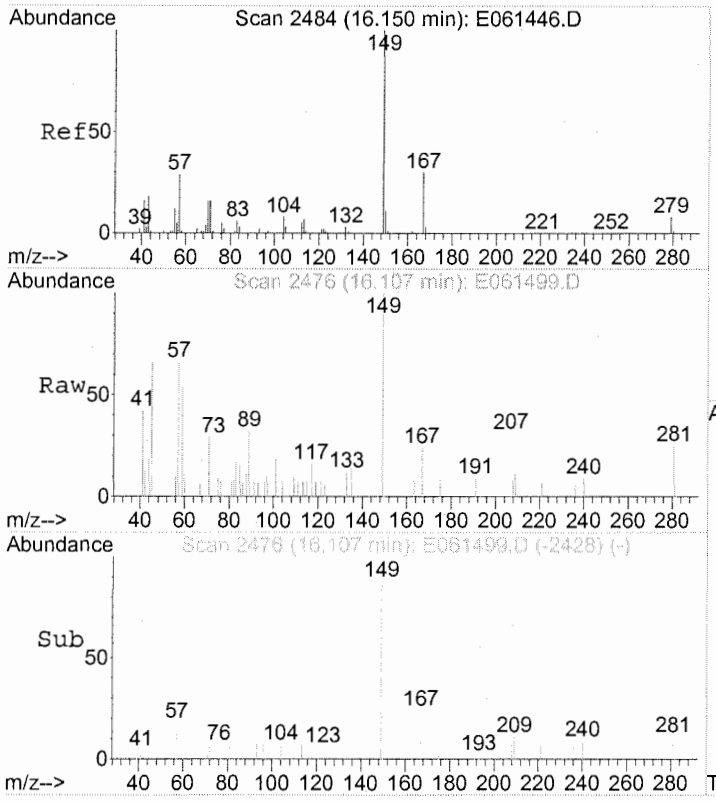


#74
Butylbenzylphthalate
Concen: 0.38 mg/L
RT: 14.91 min Scan# 2252
Delta R.T. -0.04 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:149 Resp: 2509

Ion	Ratio	Lower	Upper
149	100		
91	74.5	55.8	83.8
206	16.6	18.9	28.3#

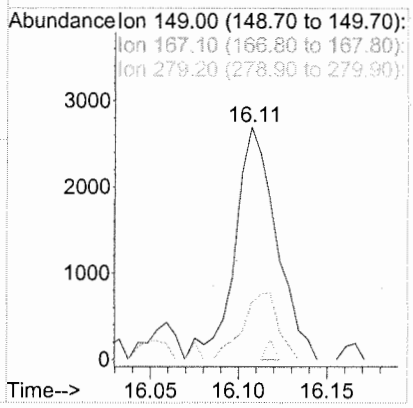


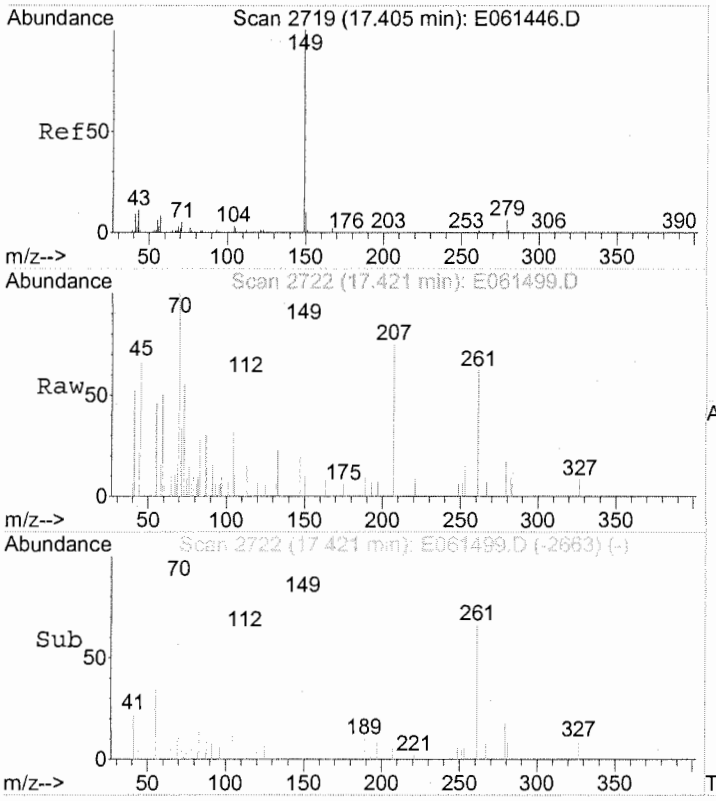


#78
Bis(2-ethylhexyl)phthalate
Concen: 0.55 mg/L
RT: 16.11 min Scan# 2476
Delta R.T. -0.04 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:149 Resp: 4411

Ion	Ratio	Lower	Upper
149	100		
167	24.4	23.5	35.3
279	1.7	6.1	9.1#

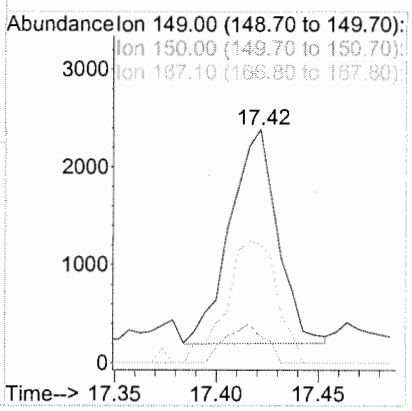


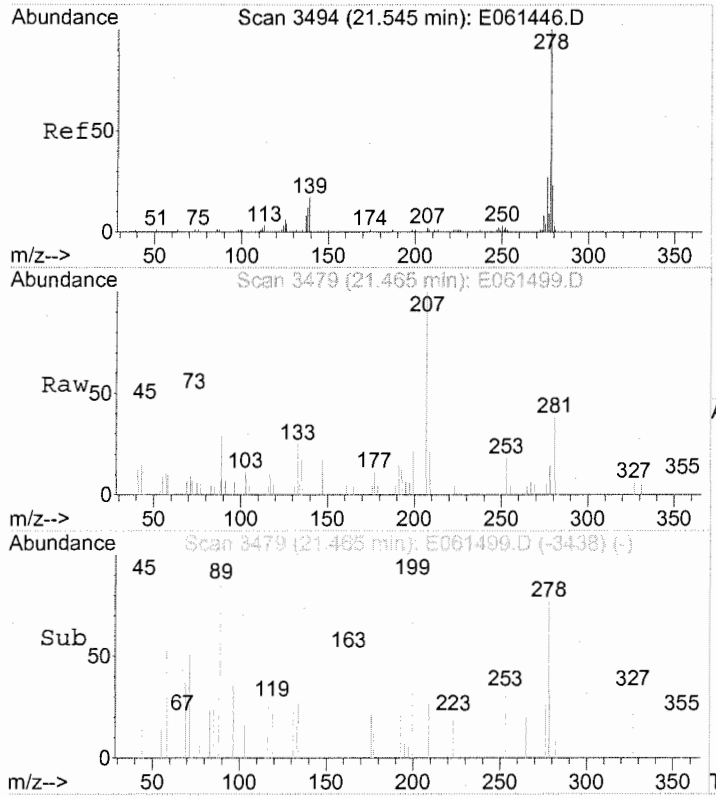


#81
Di-n-octylphthalate
Concen: 0.28 mg/L
RT: 17.42 min Scan# 2722
Delta R.T. 0.02 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:149 Resp: 3538

Ion	Ratio	Lower	Upper
149	100		
150	15.1	7.7	11.5#
167	61.6	1.4	2.0#

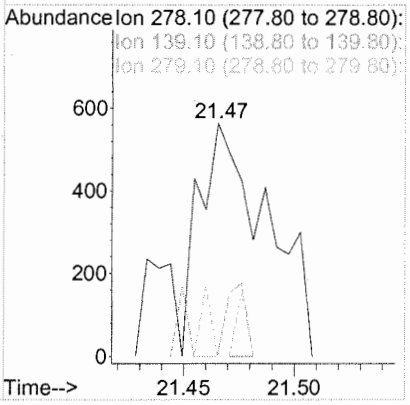


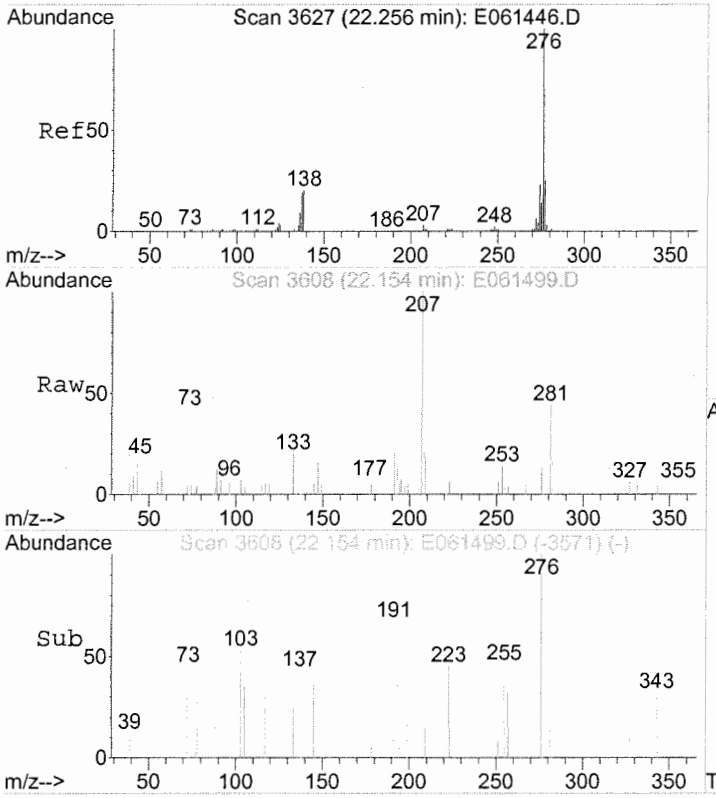


#86
Dibenz(a,h)anthracene
Concen: 0.27 mg/L
RT: 21.47 min Scan# 3479
Delta R.T. -0.08 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:278 Resp: 1205

Ion	Ratio	Lower	Upper
278	100		
139	4.5	12.2	18.2#
279	4.5	17.8	26.8#

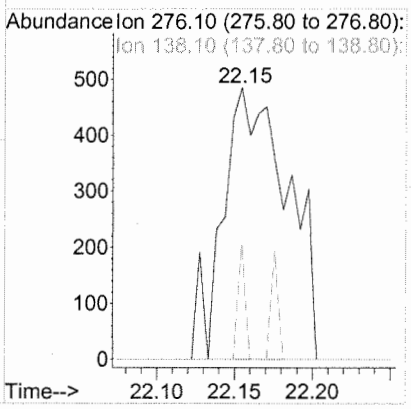




#87
Benzo(g,h,i)perylene
Concen: 0.32 mg/L
RT: 22.15 min Scan# 3608
Delta R.T. -0.10 min
Lab File: E061499.D
Acq: 25 Oct 2006 3:36 pm

Tgt Ion:276 Resp: 1399

Ion	Ratio	Lower	Upper
276	100		
138	4.7	17.2	25.8#



SUPPORT DOCUMENTATION

Liquid-Liquid Extraction, 3520C 79

Semi-Volatile Water

Date	10/23/ae
Time	13:00

3943e

Batches: D060011625/1637/P0600137/146

Client(s): Geosyntec/IBM/Envirosolve/Caman 10

Analytical Method(s)

- [x] 8270C
- [ ] MSSIM
- [ ] TCLP, 1311
- [ ] 1,4 DIO

Solvent Lots

DCM: 46210 10/16/ae 10/23/ae

Spikes

Surrogate: 14-EXS-33C-2 Amt. 0.5 ml Exp: 12/25/ae

Spike: 23-MS-EXS-71-10 Amt. 0.5 ml Exp: 12/28/ae

Spiked by: CMC Witness: CLE

pH Adjustment

- [x] *Initial:* pH 7 By/date: CMC 10/23/ae
- [x] *Acidic:* pH <2 By/date: CMC 10/23/ae
- [x] *Basic:* pH >12 By/date: CMC 10/23/ae

Cleanups

- [ ] GPC, 3640A — Calib: — By/date: — ID:
- ***Initial KD*** [ ] 1.0ml aliquot saved — By/date: — vol: ml
- [ ] Mercury, 3660B — By/date: — Lot:
- [x] No cleanups

Test Code(s): 8270

Sample ID	Surrogate	Spike	Amt (1L) By: CMC 10/23/ae	Final KD H2O bath temp 80 °C Date & Volume By: KH 10/24	Relinq. Date 10/24 By: KH
SWB1	X		1.0	1.0mL	
SWL1	X	X	1.0		
SWL2	X	X	1.0		
D060011625-2.01	X		1.02		
-4.01	X		1.01		
-5.01	X		~270 mL		
-7.01	X		1.05		
-8.01	X		1.03		
-9.01	X		1.01		
1637-1.08	X		1.01		
P0600137-1.01	X		1.04		
146-1.05	X		500 mL		
-2.05	X		500 mL		

3625

CMC 10/23/ae

- [ ] Completed ms/msd
- [x] Sample limited, no ms/msd, duplicate LCS

077

Comments:

*Shook acid side w/sep-funnels

*Base side liq./liq.

- P0600146: limited sample only used 500 mL.
- D060011625-5 (limited sample was provided)

D060609.14

Peer Review By:

Organic Extractions Dept.
CAS-Redding

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Extracted: 10/20/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5035
Analysis Method: SW8260

Extraction Lot: U1020S01

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	U1020S01	NA	NA	5.000 G	5.000	NA	
Laboratory Control Sample	U1020S01LCS	NA	NA	5.000 G	5.000	NA	
Laboratory Control Sample Duplicate	U1020S01LCSD	NA	NA	5.000 G	5.000	NA	
T-52-56.5	D0601625-001	10/17/2006	10/19/2006	5.000 G	5.000	NA	
T-53-S7	D0601625-006	10/17/2006	10/19/2006	5.000 G	5.000	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625

Holding Time Summary
Volatile Organic Compounds

Analysis Method: SW8260

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
T-52-56.5	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/20/2006	14	3	
T-52-GW11	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/26/2006	14	9	
T-52-GW11DL	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/26/2006	14	9	
QCEB	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/26/2006	14	9	
T-52-GW26	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/26/2006	14	9	
T-52-GW37	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/26/2006	14	9	
T-53-S7	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/20/2006	14	3	
T-53-GW11	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/26/2006	14	9	
T-53-GW11DL	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/26/2006	14	9	
T-53-GW26	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/26/2006	14	9	
T-53-GW38	10/17/2006	10/19/2006	N/A	N/A	N/A	N/A	N/A	N/A	10/26/2006	14	9	

Comments:

Standards Data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/13/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K067560	F	K067565
B	K067561	G	K067559
C	K067562		
D	K067563		
E	K067564		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dichlorodifluoromethane (CFC 12)	A	1.000	0.172	B	5.000	0.169	C	10.00	0.162	D	20.00	0.156	E	40.00	0.154
	F	100.0	0.151	G	0.500	0.196									
* Chloromethane	A	1.000	0.175	B	5.000	0.163	C	10.00	0.149	D	20.00	0.153	E	40.00	0.149
	F	100.0	0.160	G	0.500	0.185									
# Vinyl Chloride	A	1.000	0.210	B	5.000	0.200	C	10.00	0.192	D	20.00	0.188	E	40.00	0.189
	F	100.0	0.184	G	0.500	0.217									
Bromomethane	A	1.000	0.155	B	5.000	0.156	C	10.00	0.148	D	20.00	0.149	E	40.00	0.149
	F	100.0	0.153	G	0.500	0.177									
Chloroethane	A	1.000	0.110	B	5.000	0.113	C	10.00	0.105	D	20.00	0.102	E	40.00	0.100
	F	100.0	0.097	G	0.500	0.118									
Trichlorofluoromethane (CFC 11)	A	1.000	0.242	B	5.000	0.246	C	10.00	0.232	D	20.00	0.227	E	40.00	0.228
	F	100.0	0.235	G	0.500	0.284									
1,1,2-Trichlorotrifluoroethane	A	1.000	0.237	B	5.000	0.232	C	10.00	0.227	D	20.00	0.221	E	40.00	0.215
	F	100.0	0.206	G	0.500	0.256									
# 1,1-Dichloroethene (1,1-DCE)	A	1.000	0.198	B	5.000	0.192	C	10.00	0.187	D	20.00	0.181	E	40.00	0.182
	F	100.0	0.183	G	0.500	0.230									
Acetone	A	5.000	0.082	B	25.00	0.058	C	50.00	0.057	D	100.0	0.051	E	200.0	0.052
	F	500.0	0.050	G	2.500	0.119									
Carbon Disulfide	A	1.000	0.871	B	5.000	0.874	C	10.00	0.862	D	20.00	0.848	E	40.00	0.879
	F	100.0	0.829	G	0.500	0.974									
Dichloromethane (Methylene Chloride)	A	1.000	0.312	B	5.000	0.311	C	10.00	0.293	D	20.00	0.284	E	40.00	0.290
	F	100.0	0.287	G	0.500	0.358									
trans-1,2-Dichloroethene	A	1.000	0.230	B	5.000	0.254	C	10.00	0.243	D	20.00	0.242	E	40.00	0.236
	F	100.0	0.229	G	0.500	0.300									
Methyl tert-Butyl Ether	A	1.000	0.508	B	5.000	0.534	C	10.00	0.543	D	20.00	0.530	E	40.00	0.555
	F	100.0	0.553	G	0.500	0.580									
* 1,1-Dichloroethane (1,1-DCA)	A	1.000	0.484	B	5.000	0.510	C	10.00	0.492	D	20.00	0.479	E	40.00	0.474
	F	100.0	0.454	G	0.500	0.537									
Vinyl Acetate	A	1.000	0.813	B	5.000	0.930	C	10.00	0.898	D	20.00	0.886	E	40.00	0.919
	F	100.0	0.903	G	0.500	1.109									
2,2-Dichloropropane	A	1.000	0.360	B	5.000	0.367	C	10.00	0.350	D	20.00	0.344	E	40.00	0.346
	F	100.0	0.340	G	0.500	0.393									
cis-1,2-Dichloroethene	A	1.000	0.275	B	5.000	0.278	C	10.00	0.271	D	20.00	0.266	E	40.00	0.266
	F	100.0	0.260	G	0.500	0.322									

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* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/13/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID
A	K067560
B	K067561
C	K067562
D	K067563
E	K067564
F	K067565
G	K067559

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Butanone (MEK)	A	5.000	0.094	B	25.00	0.087	C	50.00	0.089	D	100.0	0.088	E	200.0	0.097
	F	500.0	0.093	G	2.500	0.134									
Bromochloromethane	A	1.000	0.150	B	5.000	0.150	C	10.00	0.144	D	20.00	0.144	E	40.00	0.146
	F	100.0	0.148	G	0.500	0.171									
# Chloroform	A	1.000	0.512	B	5.000	0.520	C	10.00	0.507	D	20.00	0.494	E	40.00	0.491
	F	100.0	0.476	G	0.500	0.620									
1,1,1-Trichloroethane (TCA)	A	1.000	0.338	B	5.000	0.342	C	10.00	0.340	D	20.00	0.338	E	40.00	0.338
	F	100.0	0.346	G	0.500	0.394									
1,1-Dichloropropene	A	1.000	0.313	B	5.000	0.347	C	10.00	0.332	D	20.00	0.341	E	40.00	0.344
	F	100.0	0.337	G	0.500	0.333									
Carbon Tetrachloride	A	1.000	0.251	B	5.000	0.273	C	10.00	0.266	D	20.00	0.267	E	40.00	0.271
	F	100.0	0.280	G	0.500	0.292									
Benzene	A	1.000	1.092	B	5.000	1.103	C	10.00	1.068	D	20.00	1.085	E	40.00	1.078
	F	100.0	0.919	G	0.500	1.165									
1,2-Dichloroethane (EDC)	A	1.000	0.364	B	5.000	0.363	C	10.00	0.352	D	20.00	0.337	E	40.00	0.338
	F	100.0	0.329	G	0.500	0.434									
Trichloroethene (TCE)	A	1.000	0.285	B	5.000	0.273	C	10.00	0.271	D	20.00	0.274	E	40.00	0.271
	F	100.0	0.275	G	0.500	0.343									
# 1,2-Dichloropropane	A	1.000	0.288	B	5.000	0.292	C	10.00	0.288	D	20.00	0.294	E	40.00	0.292
	F	100.0	0.294	G	0.500	0.344									
Dibromomethane	A	1.000	0.179	B	5.000	0.179	C	10.00	0.177	D	20.00	0.171	E	40.00	0.174
	F	100.0	0.172	G	0.500	0.234									
Bromodichloromethane	A	1.000	0.374	B	5.000	0.369	C	10.00	0.361	D	20.00	0.364	E	40.00	0.370
	F	100.0	0.385	G	0.500	0.452									
cis-1,3-Dichloropropene	A	1.000	0.387	B	5.000	0.431	C	10.00	0.438	D	20.00	0.438	E	40.00	0.451
	F	100.0	0.461	G	0.500	0.500									
4-Methyl-2-pentanone (MIBK)	A	5.000	0.215	B	25.00	0.213	C	50.00	0.220	D	100.0	0.214	E	200.0	0.235
				G	2.500	0.289									
# Toluene	A	1.000	0.859	B	5.000	0.938	C	10.00	0.948	D	20.00	0.990	E	40.00	1.017
	F	100.0	1.048	G	0.500	1.097									
trans-1,3-Dichloropropene	A	1.000	0.563	B	5.000	0.588	C	10.00	0.597	D	20.00	0.620	E	40.00	0.663
	F	100.0	0.694	G	0.500	0.687									
1,1,2-Trichloroethane	A	1.000	0.348	B	5.000	0.305	C	10.00	0.314	D	20.00	0.322	E	40.00	0.334
	F	100.0	0.339	G	0.500	0.426									

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COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/13/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K067560	F	K067565
B	K067561	G	K067559
C	K067562		
D	K067563		
E	K067564		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Tetrachloroethene (PCE)	A	1.000	0.462	B	5.000	0.470	C	10.00	0.459	D	20.00	0.480	E	40.00	0.487
	F	100.0	0.509	G	0.500	0.539									
1,3-Dichloropropane	A	1.000	0.606	B	5.000	0.602	C	10.00	0.597	D	20.00	0.630	E	40.00	0.631
	F	100.0	0.650	G	0.500	0.742									
2-Hexanone	A	5.000	0.206	B	25.00	0.215	C	50.00	0.222	D	100.0	0.225	E	200.0	0.234
	F	500.0	0.182	G	2.500	0.281									
Dibromochloromethane	A	1.000	0.431	B	5.000	0.421	C	10.00	0.424	D	20.00	0.449	E	40.00	0.470
	F	100.0	0.495	G	0.500	0.538									
1,2-Dibromoethane (EDB)	A	1.000	0.364	B	5.000	0.357	C	10.00	0.356	D	20.00	0.375	E	40.00	0.388
	F	100.0	0.397	G	0.500	0.454									
* Chlorobenzene	A	1.000	1.033	B	5.000	1.001	C	10.00	0.977	D	20.00	1.009	E	40.00	1.011
	F	100.0	1.015	G	0.500	1.300									
1,1,1,2-Tetrachloroethane	A	1.000	0.419	B	5.000	0.394	C	10.00	0.392	D	20.00	0.409	E	40.00	0.416
	F	100.0	0.418	G	0.500	0.519									
# Ethylbenzene	A	1.000	1.486	B	5.000	1.503	C	10.00	1.510	D	20.00	1.552	E	40.00	1.553
	F	100.0	1.352	G	0.500	1.734									
Xylenes, Total	A	3.000	0.439	B	15.00	0.478	C	30.00	0.475	D	60.00	0.498	E	120.0	0.505
	F	300.0	0.508	G	1.500	0.519									
Styrene	A	1.000	0.682	B	5.000	0.797	C	10.00	0.792	D	20.00	0.831	E	40.00	0.852
	F	100.0	0.848	G	0.500	0.802									
* Bromoform	A	1.000	0.230	B	5.000	0.224	C	10.00	0.226	D	20.00	0.242	E	40.00	0.248
	F	100.0	0.228	G	0.500	0.292									
Isopropylbenzene	A	1.000	1.024	B	5.000	1.172	C	10.00	1.171	D	20.00	1.240	E	40.00	1.233
	F	100.0	1.149	G	0.500	1.139									
* 1,1,2,2-Tetrachloroethane	A	1.000	1.182	B	5.000	1.029	C	10.00	0.983	D	20.00	0.915	E	40.00	0.878
	F	100.0	0.788	G	0.500	1.569									
Bromobenzene	A	1.000	1.294	B	5.000	1.161	C	10.00	1.118	D	20.00	1.094	E	40.00	1.045
	F	100.0	0.971	G	0.500	1.564									
1,2,3-Trichloropropane	A	1.000	0.280	B	5.000	0.243	C	10.00	0.230	D	20.00	0.218	E	40.00	0.199
	F	100.0	0.165	G	0.500	0.418									
n-Propylbenzene	A	1.000	0.861	B	5.000	0.880	C	10.00	0.874	D	20.00	0.874	E	40.00	0.809
	F	100.0	0.788	G	0.500	1.048									
2-Chlorotoluene	A	1.000	0.872	B	5.000	0.883	C	10.00	0.850	D	20.00	0.820	E	40.00	0.789
	F	100.0	0.762	G	0.500	1.018									

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Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/13/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K067560	F	K067565
B	K067561	G	K067559
C	K067562		
D	K067563		
E	K067564		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,3,5-Trimethylbenzene	A	1.000	2.472	B	5.000	2.480	C	10.00	2.438	D	20.00	2.416	E	40.00	2.272
	F	100.0	2.295	G	0.500	2.899									
4-Chlorotoluene	A	1.000	0.855	B	5.000	0.848	C	10.00	0.845	D	20.00	0.848	E	40.00	0.802
	F	100.0	0.797	G	0.500	1.065									
tert-Butylbenzene	A	1.000	1.983	B	5.000	2.297	C	10.00	2.297	D	20.00	2.320	E	40.00	2.245
	F	100.0	2.253	G	0.500	2.362									
1,2,4-Trimethylbenzene	A	1.000	1.978	B	5.000	2.307	C	10.00	2.351	D	20.00	2.404	E	40.00	2.374
	F	100.0	2.395	G	0.500	2.347									
sec-Butylbenzene	A	1.000	2.491	B	5.000	2.832	C	10.00	2.823	D	20.00	2.887	E	40.00	2.869
	F	100.0	2.795	G	0.500	2.820									
1,3-Dichlorobenzene	A	1.000	1.665	B	5.000	1.674	C	10.00	1.591	D	20.00	1.606	E	40.00	1.621
	F	100.0	1.640	G	0.500	1.977									
4-Isopropyltoluene	A	1.000	1.964	B	5.000	2.288	C	10.00	2.325	D	20.00	2.394	E	40.00	2.448
	F	100.0	2.515	G	0.500	2.110									
1,4-Dichlorobenzene	A	1.000	1.814	B	5.000	1.697	C	10.00	1.640	D	20.00	1.617	E	40.00	1.662
	F	100.0	1.677	G	0.500	2.281									
n-Butylbenzene	A	1.000	1.874	B	5.000	2.254	C	10.00	2.297	D	20.00	2.378	E	40.00	2.505
	F	100.0	2.503	G	0.500	2.169									
1,2-Dichlorobenzene	A	1.000	1.460	B	5.000	1.469	C	10.00	1.428	D	20.00	1.454	E	40.00	1.525
	F	100.0	1.501	G	0.500	1.810									
1,2-Dibromo-3-chloropropane (DBCP)	A	4.000	0.126	B	20.00	0.111	C	40.00	0.110	D	80.00	0.108	E	160.0	0.120
	F	400.0	0.109	G	2.000	0.185									
1,2,4-Trichlorobenzene	A	1.000	0.770	B	5.000	0.853	C	10.00	0.861	D	20.00	0.920	E	40.00	0.985
	F	100.0	1.000	G	0.500	0.991									
Hexachlorobutadiene	A	1.000	0.464	B	5.000	0.448	C	10.00	0.432	D	20.00	0.452	E	40.00	0.456
	F	100.0	0.462	G	0.500	0.579									
Naphthalene	A	1.000	1.120	B	5.000	1.260	C	10.00	1.409	D	20.00	1.555	E	40.00	1.726
	F	100.0	1.728	G	0.500	1.369									
1,2,3-Trichlorobenzene	A	1.000	0.727	B	5.000	0.753	C	10.00	0.775	D	20.00	0.822	E	40.00	0.880
	F	100.0	0.880	G	0.500	0.890									
Dibromofluoromethane	A	1.000	0.295	B	5.000	0.290	C	10.00	0.303	D	20.00	0.289	E	40.00	0.275
1,2-Dichloroethane-d4	A	1.000	0.322	B	5.000	0.299	C	10.00	0.313	D	20.00	0.281	E	40.00	0.271

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Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/13/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K067560	F	K067565
B	K067561	G	K067559
C	K067562		
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Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Toluene-d8	A	1.000	1.227	B	5.000	1.241	C	10.00	1.328	D	20.00	1.361	E	40.00	1.352
4-Bromofluorobenzene	A	1.000	1.002	B	5.000	0.988	C	10.00	1.057	D	20.00	1.012	E	40.00	0.937

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Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK
Mean RSD: 9.84

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
Dichlorodifluoromethane (CFC 12)	TRG	AverageRF	% RSD	9.2		15.0	0.166		0.01
* Chloromethane	TRG	AverageRF	% RSD	8.5		15.0	0.162		0.10
# Vinyl Chloride	TRG	AverageRF	% RSD	6.3		15.0	0.197		0.01
Bromomethane	TRG	AverageRF	% RSD	6.5		15.0	0.155		0.01
Chloroethane	TRG	AverageRF	% RSD	6.9		15.0	0.106		0.01
Trichlorofluoromethane (CFC 11)	TRG	AverageRF	% RSD	8.2		15.0	0.242		0.01
1,1,2-Trichlorotrifluoroethane	TRG	AverageRF	% RSD	7.2		15.0	0.228		0.01
# 1,1-Dichloroethene (1,1-DCE)	TRG	AverageRF	% RSD	9.0		15.0	0.193		0.01
Acetone	TRG	Linear	r	1.000		0.995	0.067		0.01
Carbon Disulfide	TRG	AverageRF	% RSD	5.3		15.0	0.877		0.01
Dichloromethane (Methylene Chloride)	TRG	AverageRF	% RSD	8.4		15.0	0.305		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	10.0		15.0	0.248		0.01
Methyl tert-Butyl Ether	TRG	AverageRF	% RSD	4.2		15.0	0.543		0.01
* 1,1-Dichloroethane (1,1-DCA)	TRG	AverageRF	% RSD	5.4		15.0	0.490		0.10
Vinyl Acetate	TRG	AverageRF	% RSD	9.8		15.0	0.922		0.01
2,2-Dichloropropane	TRG	AverageRF	% RSD	5.1		15.0	0.357		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	7.5		15.0	0.277		0.01
2-Butanone (MEK)	TRG	Linear	r	1.000		0.995	0.097		0.01
Bromochloromethane	TRG	AverageRF	% RSD	6.2		15.0	0.150		0.01
# Chloroform	TRG	AverageRF	% RSD	9.2		15.0	0.517		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	5.9		15.0	0.348		0.01
1,1-Dichloropropene	TRG	AverageRF	% RSD	3.4		15.0	0.335		0.01
Carbon Tetrachloride	TRG	AverageRF	% RSD	4.7		15.0	0.271		0.01
Benzene	TRG	AverageRF	% RSD	7.0		15.0	1.073		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	9.9		15.0	0.360		0.01
Trichloroethene (TCE)	TRG	AverageRF	% RSD	9.1		15.0	0.284		0.01
# 1,2-Dichloropropane	TRG	AverageRF	% RSD	6.8		15.0	0.299		0.01
Dibromomethane	TRG	AverageRF	% RSD	12.3		15.0	0.184		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	8.3		15.0	0.382		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	7.6		15.0	0.444		0.01
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF	% RSD	12.8		15.0	0.231		0.01
# Toluene	TRG	AverageRF	% RSD	8.0		15.0	0.985		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	8.1		15.0	0.630		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	11.8		15.0	0.341		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	5.9		15.0	0.486		0.01
1,3-Dichloropropane	TRG	AverageRF	% RSD	7.9		15.0	0.637		0.01
2-Hexanone	TRG	AverageRF	% RSD	13.5		15.0	0.224		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/13/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK
Mean RSD: 9.84

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
Dibromochloromethane	TRG	AverageRF	% RSD	9.3		15.0	0.461		0.01
1,2-Dibromoethane (EDB)	TRG	AverageRF	% RSD	8.9		15.0	0.384		0.01
* Chlorobenzene	TRG	AverageRF	% RSD	10.6		15.0	1.049		0.30
1,1,1,2-Tetrachloroethane	TRG	AverageRF	% RSD	10.2		15.0	0.424		0.01
# Ethylbenzene	TRG	AverageRF	% RSD	7.4		15.0	1.527		0.01
Xylenes, Total	TRG	AverageRF	% RSD	5.5		15.0	0.489		0.01
Styrene	TRG	AverageRF	% RSD	7.2		15.0	0.800		0.01
* Bromoform	TRG	AverageRF	% RSD	10.0		15.0	0.241		0.10
Isopropylbenzene	TRG	AverageRF	% RSD	6.2		15.0	1.161		0.01
* 1,1,2,2-Tetrachloroethane	TRG	Linear	r	0.999		0.995	1.049		0.30
Bromobenzene	TRG	Linear	r	0.999		0.995	1.178		0.01
1,2,3-Trichloropropane	TRG	Linear	r	0.996		0.995	0.250		0.01
n-Propylbenzene	TRG	AverageRF	% RSD	9.6		15.0	0.876		0.01
2-Chlorotoluene	TRG	AverageRF	% RSD	9.7		15.0	0.856		0.01
1,3,5-Trimethylbenzene	TRG	AverageRF	% RSD	8.4		15.0	2.467		0.01
4-Chlorotoluene	TRG	AverageRF	% RSD	10.5		15.0	0.866		0.01
tert-Butylbenzene	TRG	AverageRF	% RSD	5.5		15.0	2.251		0.01
1,2,4-Trimethylbenzene	TRG	AverageRF	% RSD	6.5		15.0	2.308		0.01
sec-Butylbenzene	TRG	AverageRF	% RSD	4.8		15.0	2.788		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	7.9		15.0	1.682		0.01
4-Isopropyltoluene	TRG	AverageRF	% RSD	8.5		15.0	2.292		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	13.2		15.0	1.770		0.01
n-Butylbenzene	TRG	AverageRF	% RSD	9.6		15.0	2.283		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	8.6		15.0	1.521		0.01
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Linear	r	0.999		0.995	0.124		0.01
1,2,4-Trichlorobenzene	TRG	AverageRF	% RSD	9.6		15.0	0.911		0.01
Hexachlorobutadiene	TRG	AverageRF	% RSD	10.5		15.0	0.470		0.01
Naphthalene	TRG	Linear	r	1.000		0.995	1.452		0.01
1,2,3-Trichlorobenzene	TRG	AverageRF	% RSD	8.2		15.0	0.818		0.01
Dibromofluoromethane	SUR	AverageRF	% RSD	3.5		15.0	0.290		0.01
1,2-Dichloroethane-d4	SUR	AverageRF	% RSD	7.1		15.0	0.297		0.01
Toluene-d8	SUR	AverageRF	% RSD	4.9		15.0	1.302		0.01
4-Bromofluorobenzene	SUR	AverageRF	% RSD	4.3		15.0	0.999		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067559.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 13-OCT-2006 11:16
Operator : X Inst ID: MSK.i
Smp Info : VSTD00.5;VSTD00.5
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\8260w10(0.5).m
Meth Date : 16-Oct-2006 10:14 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 11:16 Cal File: K067559.D
Als bottle: 6 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	9.779	9.776	(1.000)	2054203	10.0000	
* 2	Chlorobenzene-d5	117	13.110	13.107	(1.000)	1320526	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.698	15.710	(1.000)	407503	10.0000	
$ 4	Dibromofluoromethane	113	8.975	8.972	(0.918)	1240	0.50000	0.0208(a)
$ 5	1,2-Dichloroethane-d4	65	9.377	9.389	(0.959)	1896	0.50000	0.0310(a)
$ 6	Toluene-d8	98	11.519	11.516	(0.879)	4634	0.50000	0.0270(a)
$ 7	Bromofluorobenzene	174	14.375	14.372	(0.916)	2128	0.50000	0.0523(a)
8	Dichlorodifluoromethane	85	3.561	3.574	(0.364)	20088	0.50000	0.590(a)
9	1,2-Dichlorotetrafluoroethane	85	3.814	3.811	(0.390)	21660	0.50000	0.566(aQ)
10	Chloromethane	50	3.903	3.916	(0.399)	19017	0.50000	0.572(a)
11	Vinyl chloride	62	4.126	4.123	(0.422)	22324	0.50000	0.552(a)
12	Bromomethane	94	4.736	4.719	(0.484)	18214	0.50000	0.570(a)
13	Chloroethane	64	4.900	4.897	(0.501)	12114	0.50000	0.554(a)
14	Trichlorofluoromethane	101	5.346	5.344	(0.547)	29206	0.50000	0.587(a)
15	1,1,2-Trichlorotrifluoroethane	101	6.134	6.132	(0.627)	26322	0.50000	0.562(a)
16	Acrolein	56	5.956	5.953	(0.609)	11123	5.00000	7.34(aQ)
17	1,1-Dichloroethene	96	6.149	6.162	(0.629)	23618	0.50000	0.595(a)
18	Acetone	43	6.164	6.176	(0.630)	60926	2.50000	1.20(a)
19	Bromoethane	108	6.402	6.400	(0.655)	21348	0.50000	(a)
20	Iodomethane	142	6.402	6.400	(0.655)	38371	0.50000	(a)
21	Carbon disulfide	76	6.536	6.533	(0.668)	100058	0.50000	0.556(a)
22	Methylene chloride	84	6.804	6.816	(0.696)	36724	0.50000	0.586(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 tert-Butanol	59	6.878	6.876	(0.703)	23504	5.00000	8.13(a)
	24 Acrylonitrile	53	7.101	7.099	(0.726)	85587	5.00000	6.24(a)
	25 n-Hexane	57	8.217	8.214	(0.840)	22640	0.50000	0.501(a)
	26 trans-1,2-Dichloroethene	96	7.190	7.203	(0.735)	30874	0.50000	0.606(a)
	27 tert-Butylmethylether	73	7.176	7.173	(0.734)	59598	0.50000	0.534(aQ)
	28 1,1-Dichloroethane	63	7.726	7.723	(0.790)	55144	0.50000	0.548(a)
	29 Isopropylether	45	7.756	7.768	(0.793)	115654	0.50000	0.525(a)
	30 Vinyl acetate	43	7.756	7.723	(0.793)	113955	0.50000	0.601(a)
	31 tert-Butylethylether	59	8.217	8.214	(0.840)	79836	0.50000	0.516(a)
	32 2,2-Dichloropropane	77	8.455	8.452	(0.865)	40348	0.50000	0.550(aQ)
	33 cis-1,2-Dichloroethene	96	8.440	8.436	(0.863)	33065	0.50000	0.582(a)
M	34 1,2-Dichloroethene (total)	96				63939	1.00000	1.19
	35 2-Butanone	43	8.395	8.393	(0.859)	68977	2.50000	3.44(a)
	36 Bromochloromethane	128	8.722	8.734	(0.892)	17542	0.50000	0.568(a)
	37 Chloroform	83	8.782	8.779	(0.898)	63668	0.50000	0.139(a)
	38 1,1,1-Trichloroethane	97	9.065	9.062	(0.927)	40520	0.50000	0.567(aQ)
	39 Isobutyl alcohol	43	9.555	9.553	(0.977)	28006	12.5000	13.0(aQ)
	40 1,1-Dichloropropene	75	9.243	9.240	(0.945)	34187	0.50000	0.496(a)
	41 Carbon tetrachloride	119	9.273	9.270	(0.948)	29994	0.50000	0.538(a)
	42 tert-Amylmethylether	73	9.555	9.553	(0.977)	69631	0.50000	0.519(a)
	43 Benzene	78	9.496	9.493	(0.971)	119669	0.50000	0.543(a)
	44 1,2-Dichloroethane	62	9.466	9.478	(0.968)	44580	0.50000	0.603(a)
	45 Trichloroethene	95	10.195	10.192	(1.043)	35207	0.50000	0.602(a)
	46 1,2-Dichloropropane	63	10.433	10.445	(1.067)	35373	0.50000	0.576(a)
	47 1,4-Dioxane	88	10.552	10.549	(1.079)	4272	12.5000	31.6(Q)
	48 Dibromomethane	93	10.582	10.579	(1.082)	24043	0.50000	0.638(a)
	49 Bromodichloromethane	83	10.716	10.713	(1.096)	46417	0.50000	0.591(a)
	50 2-Chloroethylvinyl ether	63	10.968	10.981	(1.122)	198008	5.00000	6.08(a)
	51 cis-1,3-Dichloropropene	75	11.192	11.189	(1.144)	51305	0.50000	0.563(a)
	52 4-Methyl-2-pentanone	43	11.311	11.308	(1.157)	148353	2.50000	3.24(a)
	53 Toluene	92	11.593	11.591	(0.884)	72422	0.50000	0.556(a)
	54 trans-1,3-Dichloropropene	75	11.772	11.769	(0.898)	45343	0.50000	0.545(a)
	55 1,1,2-Trichloroethane	83	11.995	11.992	(0.915)	28140	0.50000	0.624(a)
	56 Tetrachloroethene	166	12.218	12.230	(0.932)	35602	0.50000	0.554(a)
	57 1,3-Dichloropropane	76	12.188	12.186	(0.930)	49004	0.50000	0.583(a)
	58 2-Hexanone	43	12.203	12.200	(0.931)	92637	2.50000	3.14(a)
	59 Dibromochloromethane	129	12.456	12.468	(0.950)	35494	0.50000	0.583(a)
	60 1,2-Dibromoethane	107	12.619	12.632	(0.963)	29997	0.50000	0.590(a)
	61 1-Chlorohexane	91	13.036	13.033	(0.994)	28975	0.50000	0.454(a)
	62 Chlorobenzene	112	13.140	13.152	(1.002)	85805	0.50000	0.619(aQ)
	63 1,1,1,2-Tetrachloroethane	131	13.200	13.212	(1.007)	34250	0.50000	0.612(a)
	64 Ethylbenzene	91	13.229	13.227	(1.009)	114519	0.50000	0.568(a)
	65 m-,p-Xylene	106	13.348	13.346	(1.018)	70430	1.00000	1.06
	66 o-Xylene	106	13.795	13.792	(1.052)	32409	0.50000	0.529(a)
M	67 Xylene (total)	106				102839	1.50000	1.59
	68 Styrene	104	13.795	13.792	(1.052)	52960	0.50000	0.501(a)
	69 Bromoform	173	14.047	14.045	(1.071)	19315	0.50000	0.606(a)
	70 Isopropylbenzene	105	14.166	14.179	(1.081)	75186	0.50000	0.490(a)
	71 1,1,2,2-Tetrachloroethane	83	14.449	14.461	(0.920)	31977	0.50000	0.748(a)
	72 Bromobenzene	156	14.583	14.580	(0.929)	31871	0.50000	0.664(a)
	73 1,2,3-Trichloropropane	110	14.538	14.551	(0.926)	8512	0.50000	(aQ)
	74 n-Propylbenzene	120	14.627	14.625	(0.932)	21353	0.50000	0.598(a)
	75 trans-1,4-Dichloro-2-butene	53	14.508	14.506	(0.924)	72893	0.50000	0.733(aA)
	76 2-Chlorotoluene	126	14.761	14.774	(0.940)	20742	0.50000	0.594(a)

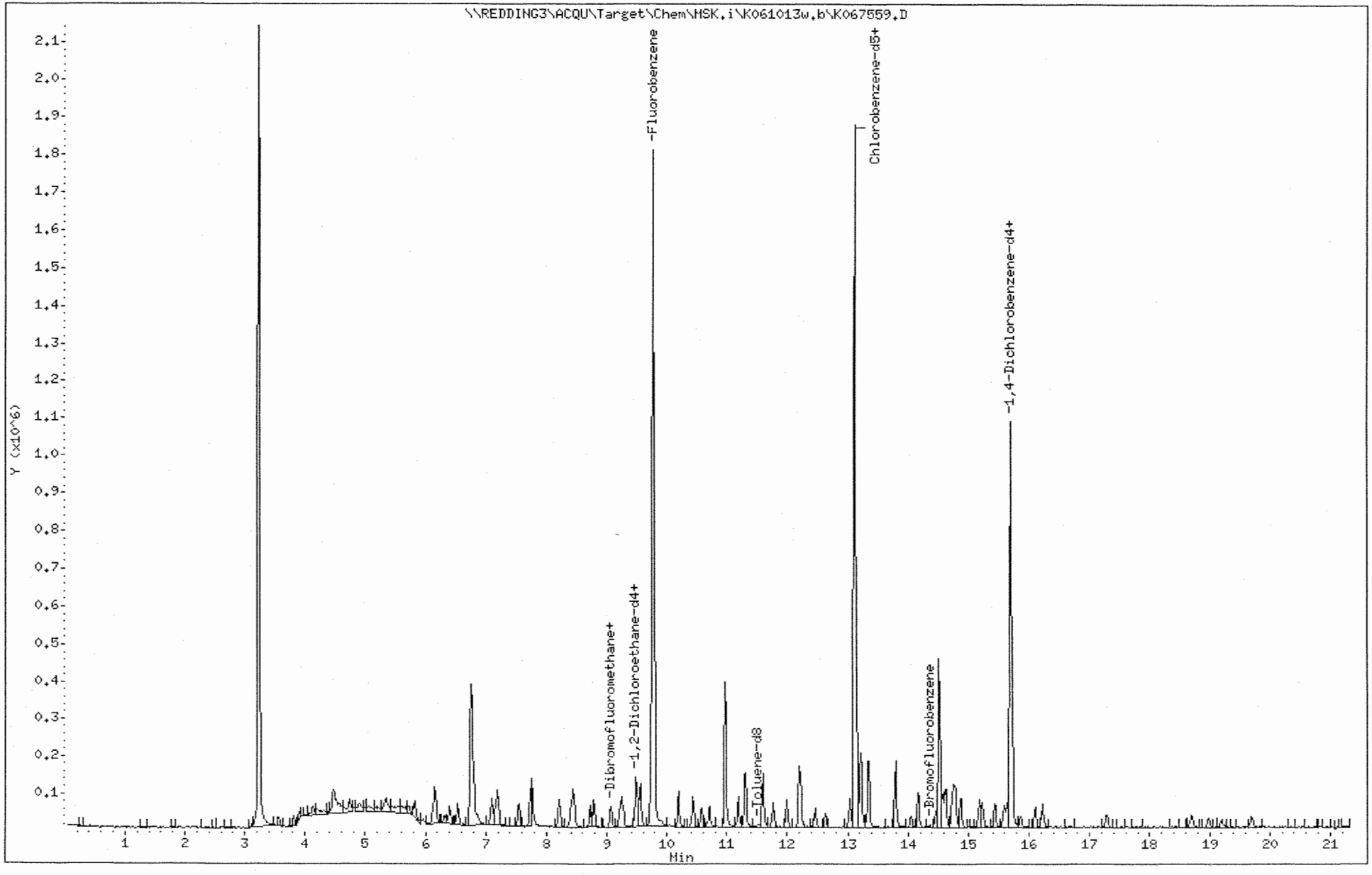
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	14.732	14.744	(0.938)	63186	0.50000	0.422(aA)
78 1,3,5-Trimethylbenzene	105	14.791	14.803	(0.942)	59075	0.50000	0.398(aQH)
79 4-Chlorotoluene	126	14.880	14.878	(0.948)	21708	0.50000	0.615(a)
80 tert-Butylbenzene	119	15.193	15.190	(0.968)	48128	0.50000	0.525(a)
81 1,2,4-Trimethylbenzene	105	15.237	15.235	(0.971)	47819	0.50000	0.508(a)
82 sec-Butylbenzene	105	15.431	15.443	(0.983)	57466	0.50000	0.506(a)
83 1,3-Dichlorobenzene	146	15.639	15.636	(0.996)	40288	0.50000	0.588(a)
84 p-Isopropyltoluene	119	15.579	15.592	(0.992)	43000	0.50000	0.460(a)
85 1,4-Dichlorobenzene	146	15.728	15.740	(1.002)	46475	0.50000	0.644(a)
86 BenzylChloride	126	14.880	14.878	(0.948)	21708	0.50000	0.615(a)
87 n-Butylbenzene	91	16.100	16.097	(1.026)	44186	0.50000	0.475(a)
88 1,2-Dichlorobenzene	146	16.219	16.231	(1.033)	36888	0.50000	0.595(a)
89 1,2-Dibromo-3-chloropropane	75	17.290	17.287	(1.101)	15091	2.00000	2.98(aQ)
90 1,2,4-Trichlorobenzene	180	18.703	18.715	(1.191)	20189	0.50000	0.544(a)
91 Hexachlorobutadiene	225	18.986	18.998	(1.209)	11807	0.50000	0.616(a)
92 Naphthalene	128	19.209	19.221	(1.224)	27901	0.50000	0.471(a)
93 1,2,3-Trichlorobenzene	180	19.714	19.712	(1.256)	18140	0.50000	0.544(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067559.D
Date : 13-OCT-2006 11:16
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067560.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 13-OCT-2006 11:43
Operator : X Inst ID: MSK.i
Smp Info : VSTD001;VSTD001
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\8260w10(0.5).m
Meth Date : 16-Oct-2006 10:14 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 11:43 Cal File: K067560.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.779	9.776	(1.000)	2107694	10.0000	
* 2	Chlorobenzene-d5	117	13.111	13.107	(1.000)	1338149	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.699	15.710	(1.000)	433397	10.0000	
$ 4	Dibromofluoromethane	113	8.976	8.972	(0.918)	62272	1.00000	1.02
$ 5	1,2-Dichloroethane-d4	65	9.378	9.389	(0.959)	67781	1.00000	1.08
$ 6	Toluene-d8	98	11.519	11.516	(0.879)	164183	1.00000	0.942(a)
$ 7	Bromofluorobenzene	174	14.375	14.372	(0.916)	43406	1.00000	1.00
8	Dichlorodifluoromethane	85	3.562	3.574	(0.364)	36177	1.00000	1.04(Q)
9	1,2-Dichlorotetrafluoroethane	85	3.815	3.811	(0.390)	40830	1.00000	1.04(Q)
10	Chloromethane	50	3.904	3.916	(0.399)	36824	1.00000	1.08
11	Vinyl chloride	62	4.127	4.123	(0.422)	44235	1.00000	1.06
12	Bromomethane	94	4.737	4.719	(0.484)	32765	1.00000	1.000
13	Chloroethane	64	4.901	4.897	(0.501)	23165	1.00000	1.03
14	Trichlorofluoromethane	101	5.347	5.344	(0.547)	51125	1.00000	1.00
15	1,1,2-Trichlorotrifluoroethane	101	6.135	6.132	(0.627)	50011	1.00000	1.04
16	Acrolein	56	5.957	5.953	(0.609)	14920	10.0000	9.59(aQ)
17	1,1-Dichloroethene	96	6.150	6.162	(0.629)	41809	1.00000	1.03
18	Acetone	43	6.165	6.176	(0.630)	86998	5.00000	3.53(a)
19	Bromoethane	108	6.403	6.400	(0.655)	40042	1.00000	0.372(a)
20	Iodomethane	142	6.403	6.400	(0.655)	72934	1.00000	0.183(a)
21	Carbon disulfide	76	6.537	6.533	(0.668)	183595	1.00000	0.994(a)
22	Methylene chloride	84	6.804	6.816	(0.696)	65824	1.00000	1.02(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 tert-Butanol	59	6.879	6.876	(0.703)	35487	10.0000	12.0
	24 Acrylonitrile	53	7.102	7.099	(0.726)	142804	10.0000	10.1
	25 n-Hexane	57	8.203	8.214	(0.839)	43295	1.00000	0.934(a)
	26 trans-1,2-Dichloroethene	96	7.191	7.203	(0.735)	48513	1.00000	0.928(a)
	27 tert-Butylmethylether	73	7.176	7.173	(0.734)	107029	1.00000	0.935(aQ)
	28 1,1-Dichloroethane	63	7.727	7.723	(0.790)	101967	1.00000	0.987(a)
	29 Isopropylether	45	7.771	7.768	(0.795)	204126	1.00000	0.904(a)
	30 Vinyl acetate	43	7.727	7.723	(0.790)	171389	1.00000	0.881(a)
	31 tert-Butylethylether	59	8.217	8.214	(0.840)	139008	1.00000	0.876(a)
	32 2,2-Dichloropropane	77	8.455	8.452	(0.865)	75832	1.00000	1.01(Q)
	33 cis-1,2-Dichloroethene	96	8.426	8.436	(0.862)	57936	1.00000	0.993(a)
M	34 1,2-Dichloroethene (total)	96				106449	2.00000	1.92
	35 2-Butanone	43	8.396	8.393	(0.859)	98997	5.00000	4.81(a)
	36 Bromochloromethane	128	8.723	8.734	(0.892)	31612	1.00000	0.997(a)
	37 Chloroform	83	8.783	8.779	(0.898)	107947	1.00000	0.564(a)
	38 1,1,1-Trichloroethane	97	9.065	9.062	(0.927)	71304	1.00000	0.972(aQ)
	39 Isobutyl alcohol	43	9.556	9.553	(0.977)	50695	25.0000	23.0(aQ)
	40 1,1-Dichloropropene	75	9.244	9.240	(0.945)	65927	1.00000	0.933(a)
	41 Carbon tetrachloride	119	9.273	9.270	(0.948)	52895	1.00000	0.924(a)
	42 tert-Amylmethylether	73	9.556	9.553	(0.977)	120520	1.00000	0.875(a)
	43 Benzene	78	9.497	9.493	(0.971)	230094	1.00000	1.02
	44 1,2-Dichloroethane	62	9.467	9.478	(0.968)	76691	1.00000	1.01
	45 Trichloroethene	95	10.196	10.192	(1.043)	60132	1.00000	1.00
	46 1,2-Dichloropropane	63	10.434	10.445	(1.067)	60811	1.00000	0.965(a)
	47 1,4-Dioxane	88	10.553	10.549	(1.079)	6476	25.0000	39.4(Q)
	48 Dibromomethane	93	10.582	10.579	(1.082)	37734	1.00000	0.975(a)
	49 Bromodichloromethane	83	10.716	10.713	(1.096)	78915	1.00000	0.980(a)
	50 2-Chloroethylvinyl ether	63	10.969	10.981	(1.122)	323331	10.0000	9.68(a)
	51 cis-1,3-Dichloropropene	75	11.192	11.189	(1.144)	81630	1.00000	0.873(a)
	52 4-Methyl-2-pentanone	43	11.296	11.308	(1.155)	226829	5.00000	4.84(a)
	53 Toluene	92	11.594	11.591	(0.884)	114996	1.00000	0.872(a)
	54 trans-1,3-Dichloropropene	75	11.772	11.769	(0.898)	75377	1.00000	0.894(a)
	55 1,1,2-Trichloroethane	83	11.995	11.992	(0.915)	46629	1.00000	1.02
	56 Tetrachloroethene	166	12.218	12.230	(0.932)	61833	1.00000	0.949(a)
	57 1,3-Dichloropropane	76	12.189	12.186	(0.930)	81080	1.00000	0.951(a)
	58 2-Hexanone	43	12.204	12.200	(0.931)	138014	5.00000	4.61(a)
	59 Dibromochloromethane	129	12.456	12.468	(0.950)	57691	1.00000	0.935(a)
	60 1,2-Dibromoethane	107	12.620	12.632	(0.963)	48737	1.00000	0.947(a)
	61 1-Chlorohexane	91	13.037	13.033	(0.994)	51073	1.00000	0.790(a)
	62 Chlorobenzene	112	13.141	13.152	(1.002)	138290	1.00000	0.985(aQ)
	63 1,1,1,2-Tetrachloroethane	131	13.215	13.212	(1.008)	56062	1.00000	0.988(a)
	64 Ethylbenzene	91	13.230	13.227	(1.009)	198815	1.00000	0.973(a)
	65 m-,p-Xylene	106	13.349	13.346	(1.018)	123496	2.00000	1.84
	66 o-Xylene	106	13.795	13.792	(1.052)	52864	1.00000	0.852(a)
M	67 Xylene (total)	106				176360	3.00000	2.69
	68 Styrene	104	13.795	13.792	(1.052)	91264	1.00000	0.852(a)
	69 Bromoform	173	14.048	14.045	(1.071)	30819	1.00000	0.953(a)
	70 Isopropylbenzene	105	14.182	14.179	(1.082)	136983	1.00000	0.882(a)
	71 1,1,2,2-Tetrachloroethane	83	14.450	14.461	(0.920)	51238	1.00000	1.13
	72 Bromobenzene	156	14.583	14.580	(0.929)	56072	1.00000	1.10
	73 1,2,3-Trichloropropane	110	14.539	14.551	(0.926)	12158	1.00000	(aQ)
	74 n-Propylbenzene	120	14.628	14.625	(0.932)	37316	1.00000	0.983(a)
	75 trans-1,4-Dichloro-2-butene	53	14.509	14.506	(0.924)	119534	1.00000	1.13(A)
	76 2-Chlorotoluene	126	14.762	14.774	(0.940)	37776	1.00000	1.02

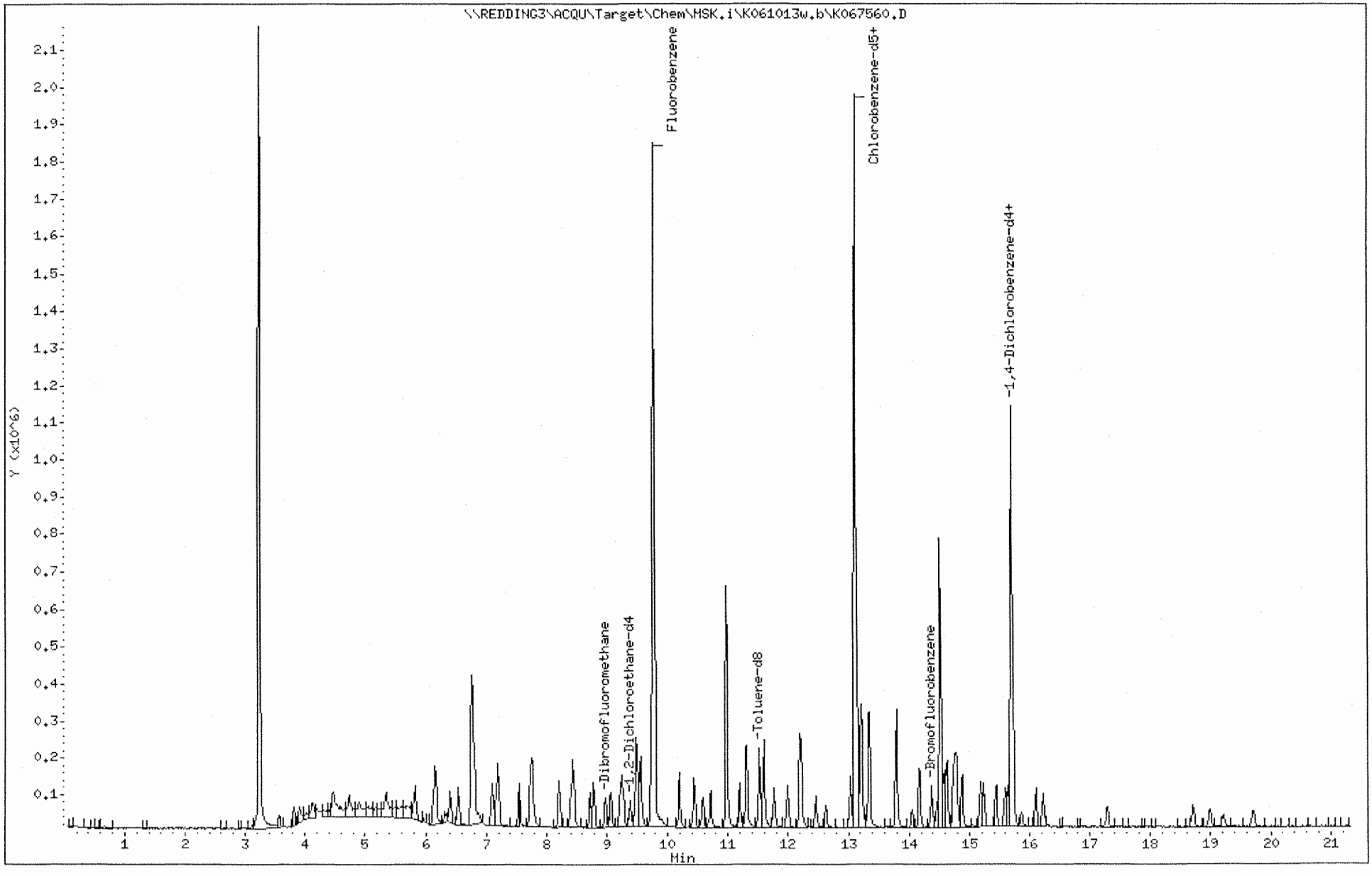
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	14.732	14.744	(0.938)	117288	1.00000	0.737(aA)
78 1,3,5-Trimethylbenzene	105	14.792	14.803	(0.942)	107153	1.00000	0.685(aQH)
79 4-Chlorotoluene	126	14.881	14.878	(0.948)	37062	1.00000	0.988(a)
80 tert-Butylbenzene	119	15.193	15.190	(0.968)	85958	1.00000	0.881(a)
81 1,2,4-Trimethylbenzene	105	15.238	15.235	(0.971)	85735	1.00000	0.857(a)
82 sec-Butylbenzene	105	15.446	15.443	(0.984)	107964	1.00000	0.893(a)
83 1,3-Dichlorobenzene	146	15.640	15.636	(0.996)	72174	1.00000	0.990(a)
84 p-Isopropyltoluene	119	15.580	15.592	(0.992)	85113	1.00000	0.857(a)
85 1,4-Dichlorobenzene	146	15.729	15.740	(1.002)	78636	1.00000	1.02
86 BenzylChloride	126	14.881	14.878	(0.948)	37062	1.00000	0.988(a)
87 n-Butylbenzene	91	16.101	16.097	(1.026)	81203	1.00000	0.821(a)
88 1,2-Dichlorobenzene	146	16.234	16.231	(1.034)	63296	1.00000	0.960(a)
89 1,2-Dibromo-3-chloropropane	75	17.276	17.287	(1.100)	21879	4.00000	4.06(aQ)
90 1,2,4-Trichlorobenzene	180	18.704	18.715	(1.191)	33358	1.00000	0.844(a)
91 Hexachlorobutadiene	225	18.986	18.998	(1.209)	20119	1.00000	0.987(a)
92 Naphthalene	128	19.209	19.221	(1.224)	48550	1.00000	0.771(a)
93 1,2,3-Trichlorobenzene	180	19.715	19.712	(1.256)	31513	1.00000	0.888(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067560.D
Date : 13-OCT-2006 11:43
Client ID: VSTD001
Sample Info: VSTD001;VSTD001
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067561.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 13-OCT-2006 12:10
Operator : X Inst ID: MSK.i
Smp Info : VSTD005;VSTD005
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\8260w10(0.5).m
Meth Date : 16-Oct-2006 10:14 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 12:10 Cal File: K067561.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.775	9.776	(1.000)	2181964	10.0000	
* 2	Chlorobenzene-d5	117	13.107	13.107	(1.000)	1366717	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.709	15.710	(1.000)	455709	10.0000	
$ 4	Dibromofluoromethane	113	8.972	8.972	(0.918)	316928	5.00000	5.00
$ 5	1,2-Dichloroethane-d4	65	9.388	9.389	(0.960)	325854	5.00000	5.02
$ 6	Toluene-d8	98	11.515	11.516	(0.879)	848011	5.00000	4.77
$ 7	Bromofluorobenzene	174	14.371	14.372	(0.915)	225178	5.00000	4.94
8	Dichlorodifluoromethane	85	3.572	3.574	(0.365)	184909	5.00000	5.11(Q)
9	1,2-Dichlorotetrafluoroethane	85	3.810	3.811	(0.390)	217026	5.00000	5.34(Q)
10	Chloromethane	50	3.900	3.916	(0.399)	178022	5.00000	5.04
11	Vinyl chloride	62	4.123	4.123	(0.422)	218016	5.00000	5.07
12	Bromomethane	94	4.732	4.719	(0.484)	170565	5.00000	5.03
13	Chloroethane	64	4.911	4.897	(0.502)	123130	5.00000	5.30
14	Trichlorofluoromethane	101	5.342	5.344	(0.547)	268728	5.00000	5.08
15	1,1,2-Trichlorotrifluoroethane	101	6.131	6.132	(0.627)	252738	5.00000	5.08
16	Acrolein	56	5.952	5.953	(0.609)	70842	50.0000	44.0(Q)
17	1,1-Dichloroethene	96	6.160	6.162	(0.630)	209408	5.00000	4.96
18	Acetone	43	6.160	6.176	(0.630)	315346	25.0000	24.2
19	Bromoethane	108	6.413	6.400	(0.656)	206025	5.00000	4.90
20	Iodomethane	142	6.398	6.400	(0.655)	399870	5.00000	4.71
21	Carbon disulfide	76	6.532	6.533	(0.668)	953235	5.00000	4.98
22	Methylene chloride	84	6.800	6.816	(0.696)	339060	5.00000	5.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 tert-Butanol	59	6.874	6.876	(0.703)	132133	50.0000	43.0
	24 Acrylonitrile	53	7.097	7.099	(0.726)	684049	50.0000	47.0
	25 n-Hexane	57	8.213	8.214	(0.840)	234975	5.00000	4.89
	26 trans-1,2-Dichloroethene	96	7.202	7.203	(0.737)	277475	5.00000	5.13
	27 tert-Butylmethylether	73	7.172	7.173	(0.734)	582213	5.00000	4.91(Q)
	28 1,1-Dichloroethane	63	7.722	7.723	(0.790)	556271	5.00000	5.20
	29 Isopropylether	45	7.767	7.768	(0.795)	1178642	5.00000	5.04
	30 Vinyl acetate	43	7.737	7.723	(0.792)	1015111	5.00000	5.04
	31 tert-Butylethylether	59	8.213	8.214	(0.840)	790141	5.00000	4.81
	32 2,2-Dichloropropane	77	8.451	8.452	(0.865)	400870	5.00000	5.14(Q)
	33 cis-1,2-Dichloroethene	96	8.436	8.436	(0.863)	302835	5.00000	5.01
M	34 1,2-Dichloroethene (total)	96				580310	10.0000	10.1
	35 2-Butanone	43	8.391	8.393	(0.858)	477042	25.0000	22.4
	36 Bromochloromethane	128	8.719	8.734	(0.892)	163227	5.00000	4.97
	37 Chloroform	83	8.778	8.779	(0.898)	567547	5.00000	4.96
	38 1,1,1-Trichloroethane	97	9.061	9.062	(0.927)	372732	5.00000	4.91(Q)
	39 Isobutyl alcohol	43	9.552	9.553	(0.977)	275030	125.000	120(Q)
	40 1,1-Dichloropropene	75	9.239	9.240	(0.945)	378307	5.00000	5.17
	41 Carbon tetrachloride	119	9.269	9.270	(0.948)	297741	5.00000	5.02
	42 tert-Amylmethylether	73	9.552	9.553	(0.977)	680003	5.00000	4.77
	43 Benzene	78	9.492	9.493	(0.971)	1203428	5.00000	5.14
	44 1,2-Dichloroethane	62	9.477	9.478	(0.970)	396450	5.00000	5.05
	45 Trichloroethene	95	10.191	10.192	(1.043)	298281	5.00000	4.80
	46 1,2-Dichloropropane	63	10.429	10.445	(1.067)	318027	5.00000	4.88
	47 1,4-Dioxane	88	10.548	10.549	(1.079)	31405	125.000	128(Q)
	48 Dibromomethane	93	10.578	10.579	(1.082)	194914	5.00000	4.86
	49 Bromodichloromethane	83	10.712	10.713	(1.096)	402362	5.00000	4.82
	50 2-Chloroethylvinyl ether	63	10.965	10.981	(1.122)	1831052	50.0000	53.0
	51 cis-1,3-Dichloropropene	75	11.188	11.189	(1.145)	470200	5.00000	4.86
	52 4-Methyl-2-pentanone	43	11.307	11.308	(1.157)	1161865	25.0000	23.9
	53 Toluene	92	11.589	11.591	(0.884)	641375	5.00000	4.76
	54 trans-1,3-Dichloropropene	75	11.768	11.769	(0.898)	401989	5.00000	4.67
	55 1,1,2-Trichloroethane	83	11.991	11.992	(0.915)	208369	5.00000	4.47
	56 Tetrachloroethene	166	12.229	12.230	(0.933)	321188	5.00000	4.83
	57 1,3-Dichloropropane	76	12.184	12.186	(0.930)	411499	5.00000	4.73
	58 2-Hexanone	43	12.199	12.200	(0.931)	734204	25.0000	24.0
	59 Dibromochloromethane	129	12.467	12.468	(0.951)	287683	5.00000	4.56
	60 1,2-Dibromoethane	107	12.631	12.632	(0.964)	244019	5.00000	4.64
	61 1-Chlorohexane	91	13.032	13.033	(0.994)	321199	5.00000	4.86
	62 Chlorobenzene	112	13.151	13.152	(1.003)	683774	5.00000	4.77(Q)
	63 1,1,1,2-Tetrachloroethane	131	13.211	13.212	(1.008)	269569	5.00000	4.65
	64 Ethylbenzene	91	13.226	13.227	(1.009)	1027286	5.00000	4.92
	65 m-,p-Xylene	106	13.344	13.346	(1.018)	665192	10.0000	9.70
	66 o-Xylene	106	13.791	13.792	(1.052)	314972	5.00000	4.97
M	67 Xylene (total)	106				980164	15.0000	14.7
	68 Styrene	104	13.791	13.792	(1.052)	544566	5.00000	4.98
	69 Bromoform	173	14.044	14.045	(1.071)	153032	5.00000	4.64
	70 Isopropylbenzene	105	14.177	14.179	(1.082)	800676	5.00000	5.04
	71 1,1,2,2-Tetrachloroethane	83	14.460	14.461	(0.920)	234501	5.00000	4.90
	72 Bromobenzene	156	14.579	14.580	(0.928)	264616	5.00000	4.93
	73 1,2,3-Trichloropropane	110	14.534	14.551	(0.925)	55343	5.00000	4.18(Q)
	74 n-Propylbenzene	120	14.624	14.625	(0.931)	200545	5.00000	5.02
	75 trans-1,4-Dichloro-2-butene	53	14.505	14.506	(0.923)	564211	5.00000	5.07(A)
	76 2-Chlorotoluene	126	14.772	14.774	(0.940)	201170	5.00000	5.16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	14.743	14.744	(0.938)	762169	5.00000	4.96(AM)
78 1,3,5-Trimethylbenzene	105	14.787	14.803	(0.941)	565142	5.00000	3.89(QM)
79 4-Chlorotoluene	126	14.877	14.878	(0.947)	193330	5.00000	4.90
80 tert-Butylbenzene	119	15.189	15.190	(0.967)	523414	5.00000	5.10
81 1,2,4-Trimethylbenzene	105	15.233	15.235	(0.970)	525682	5.00000	5.00
82 sec-Butylbenzene	105	15.442	15.443	(0.983)	645241	5.00000	5.08
83 1,3-Dichlorobenzene	146	15.635	15.636	(0.995)	381560	5.00000	4.98
84 p-Isopropyltoluene	119	15.590	15.592	(0.992)	521310	5.00000	4.99
85 1,4-Dichlorobenzene	146	15.739	15.740	(1.002)	386651	5.00000	4.79
86 BenzylChloride	126	14.877	14.878	(0.947)	193330	5.00000	4.90
87 n-Butylbenzene	91	16.096	16.097	(1.025)	513670	5.00000	4.94
88 1,2-Dichlorobenzene	146	16.230	16.231	(1.033)	334741	5.00000	4.83
89 1,2-Dibromo-3-chloropropane	75	17.286	17.287	(1.100)	101456	20.0000	17.9(Q)
90 1,2,4-Trichlorobenzene	180	18.714	18.715	(1.191)	194383	5.00000	4.68
91 Hexachlorobutadiene	225	18.982	18.998	(1.208)	101971	5.00000	4.76
92 Naphthalene	128	19.220	19.221	(1.223)	287144	5.00000	4.34
93 1,2,3-Trichlorobenzene	180	19.711	19.712	(1.255)	171668	5.00000	4.60

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067561.D
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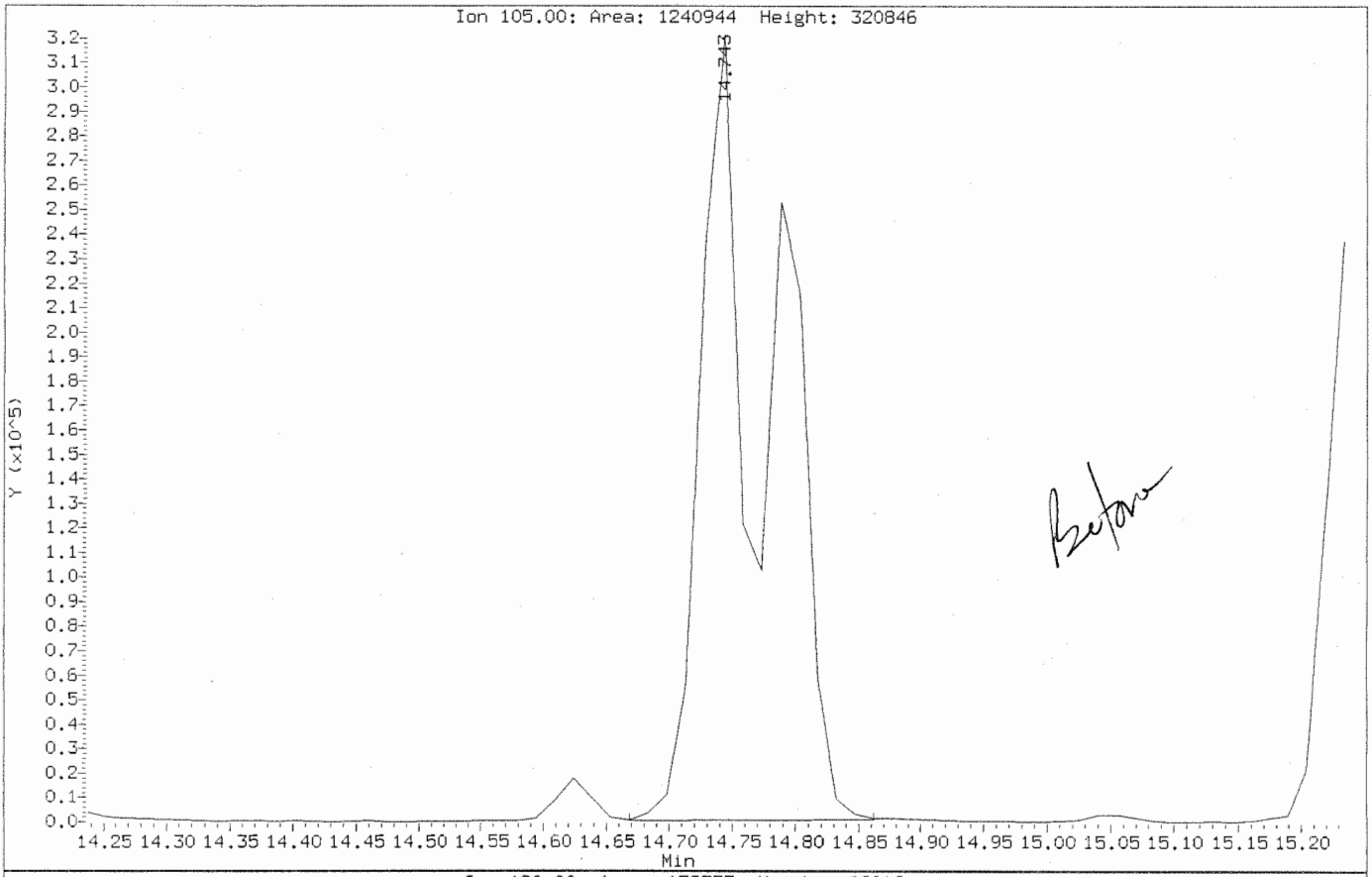
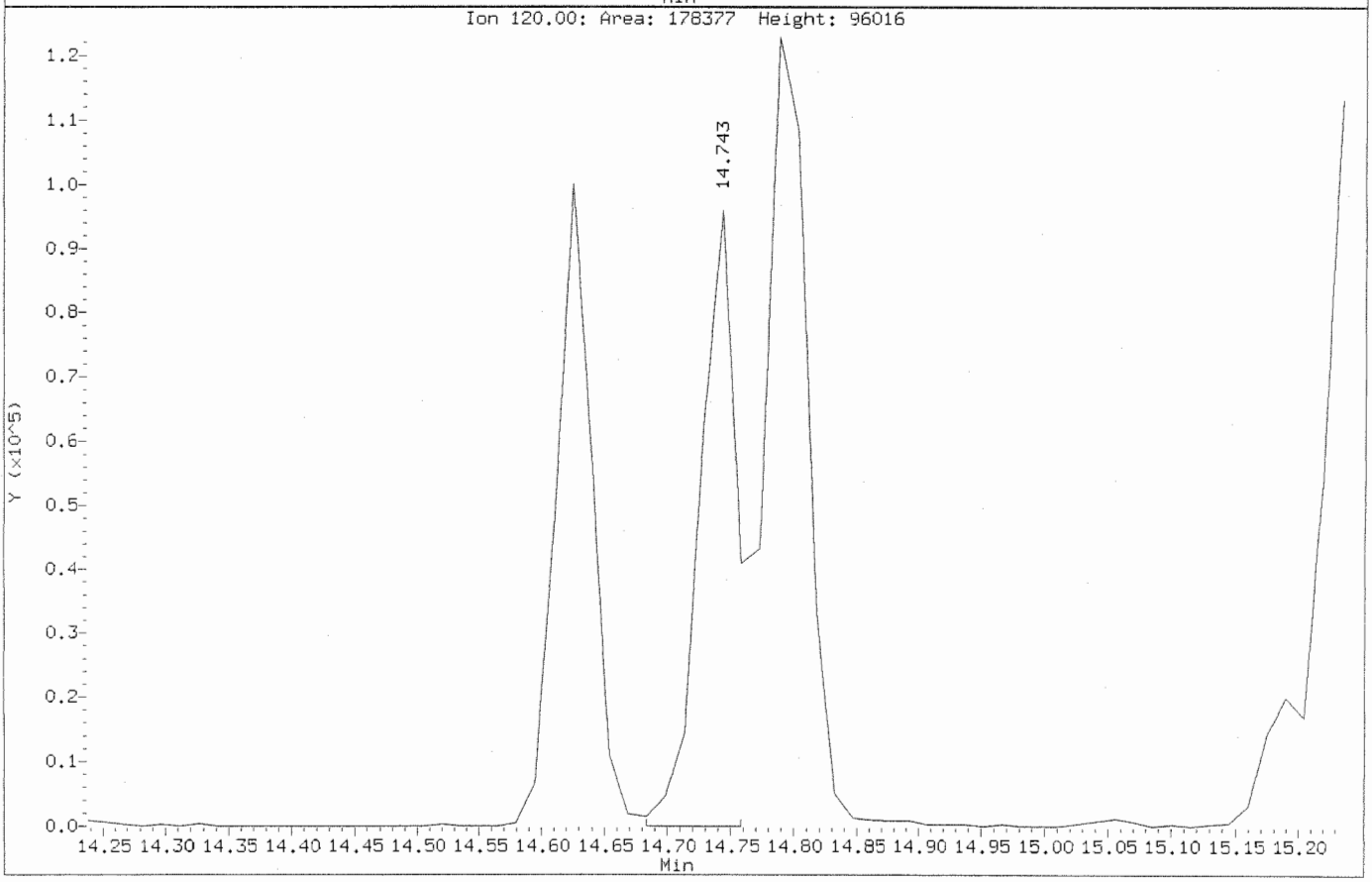
Instrument: MSK.i
Client Sample ID: VSTD005

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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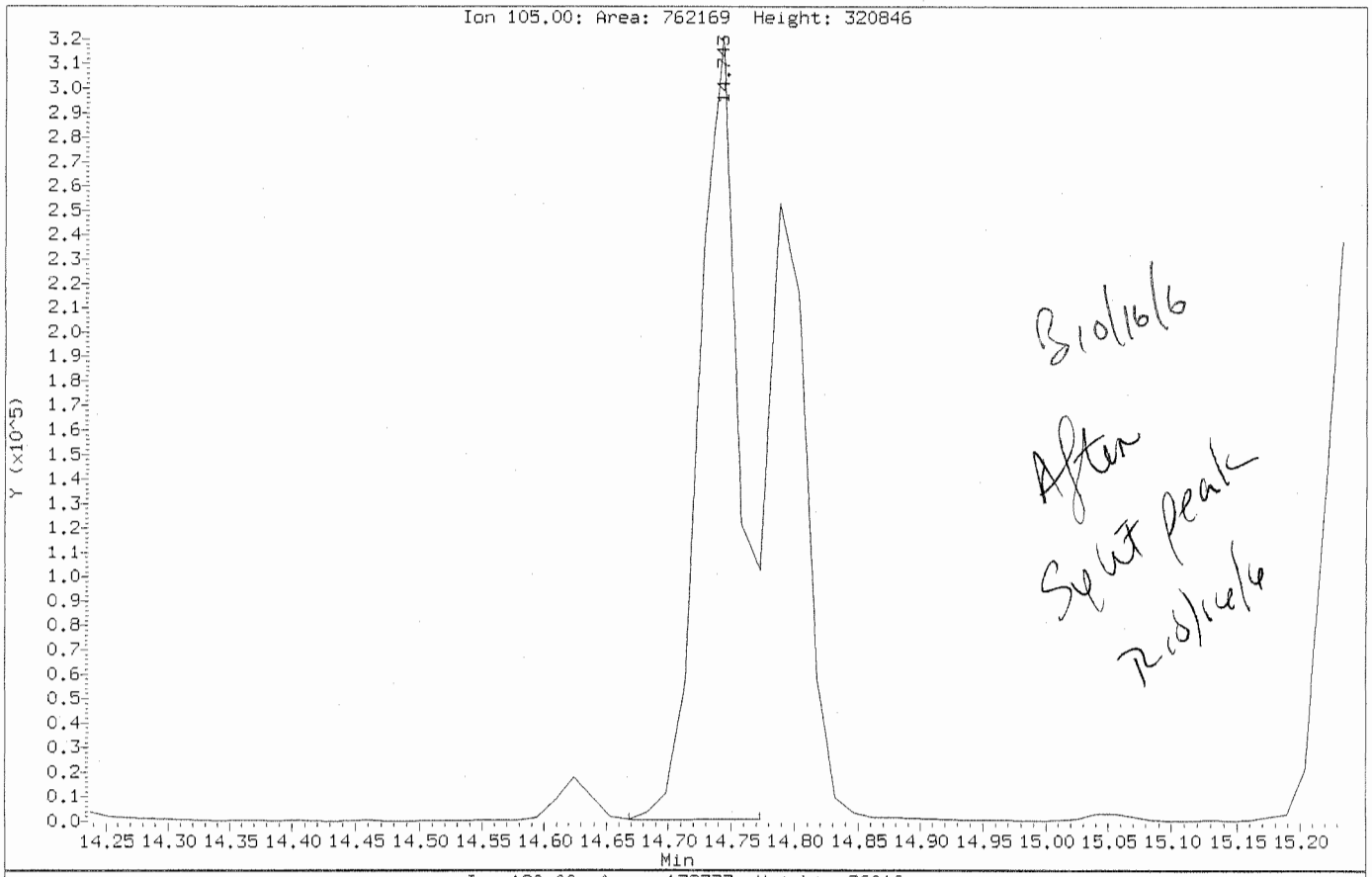
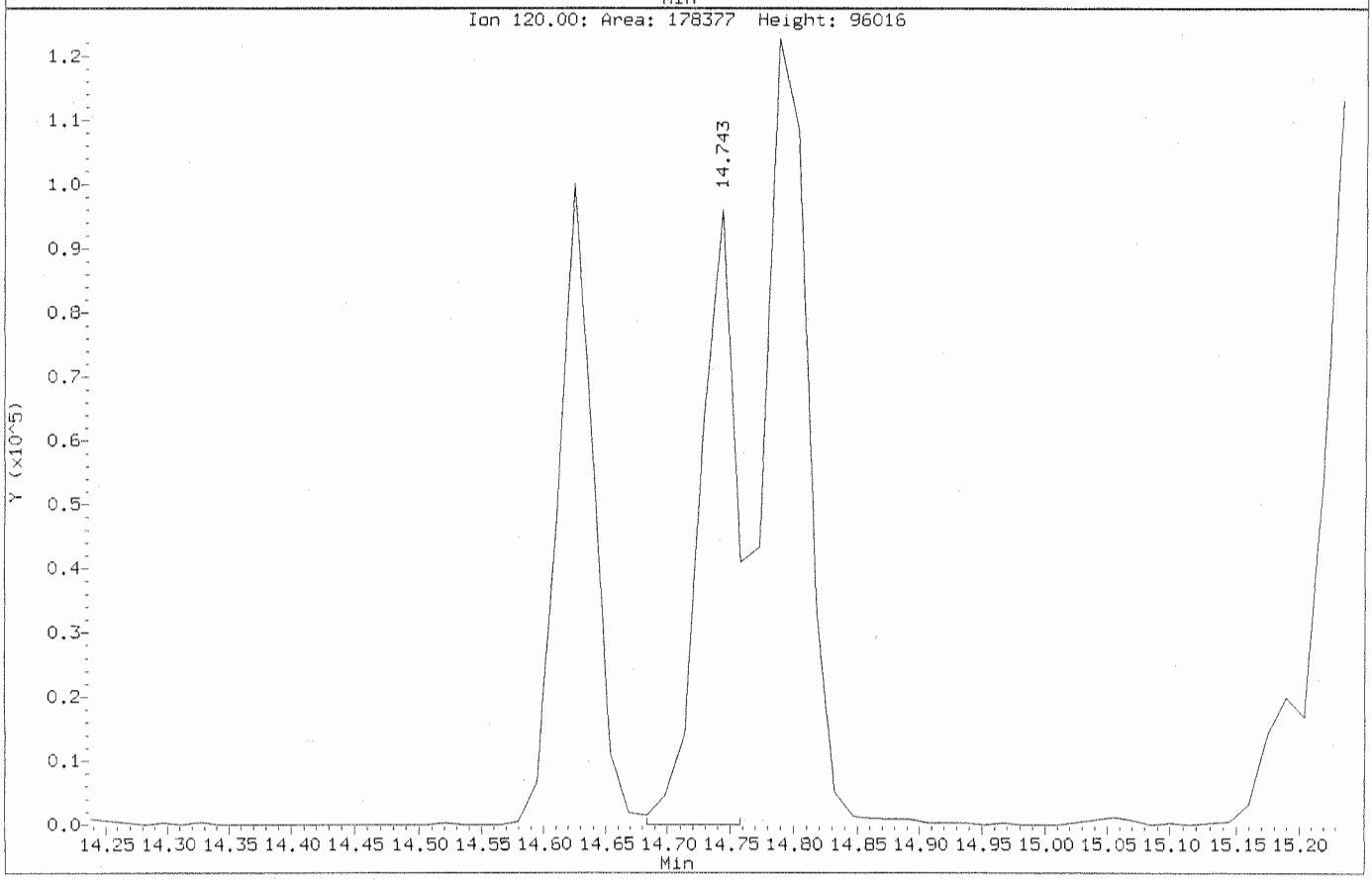
Injection Date: 13-OCT-2006 12:10
Instrument: MSK.i
Client Sample ID: VSTD005

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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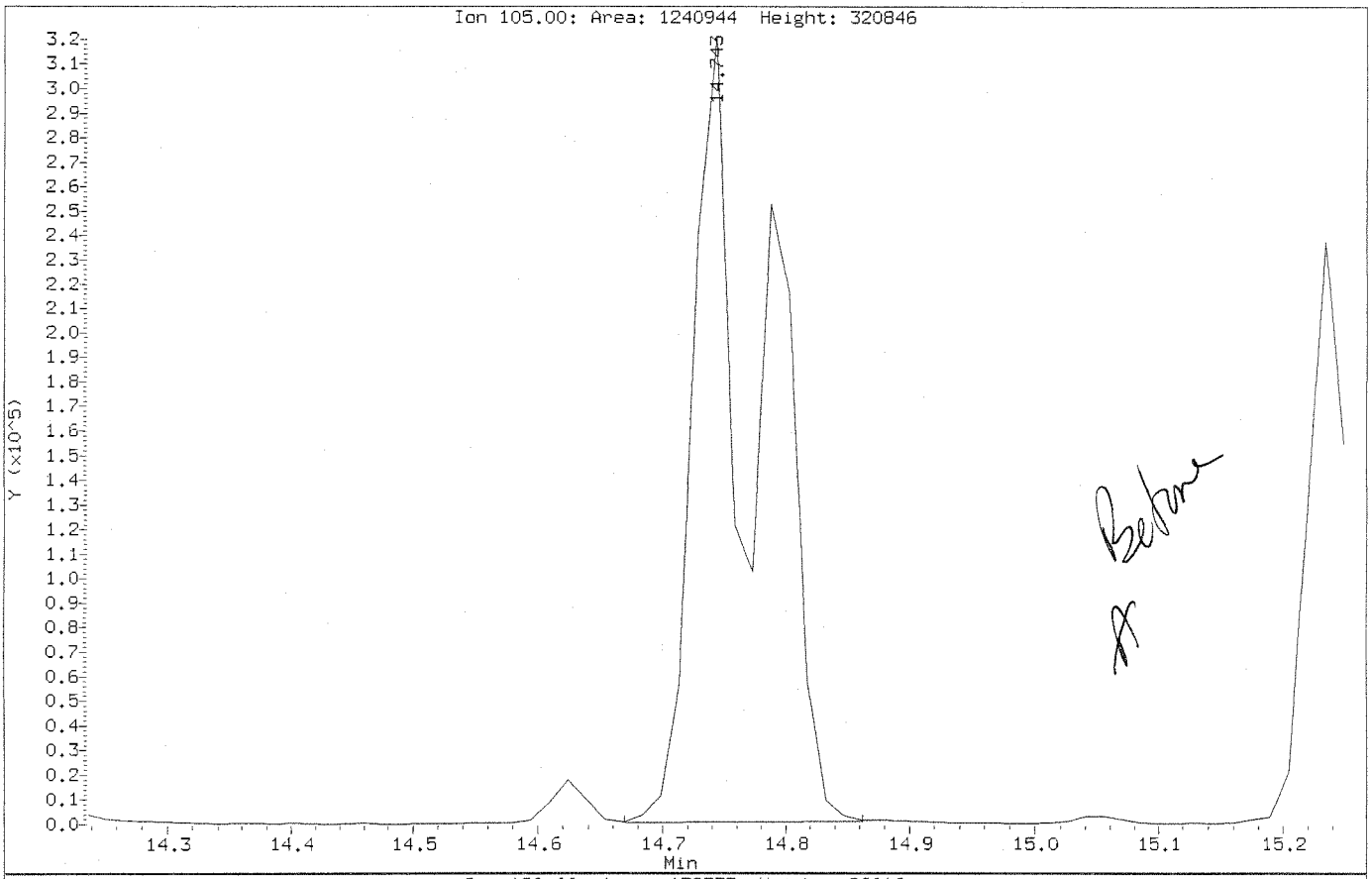
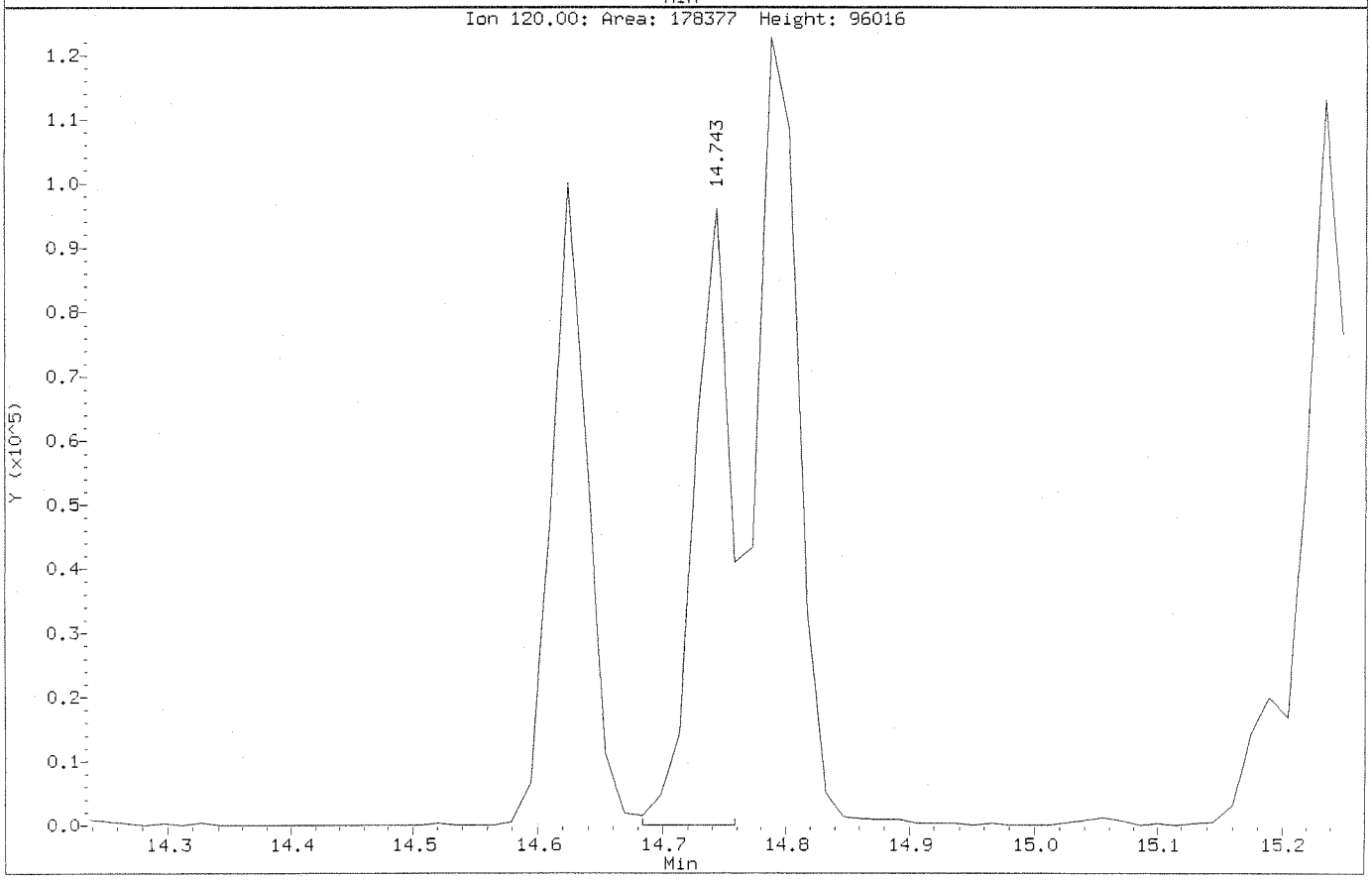
Injection Date: 13-OCT-2006 12:10
Instrument: MSK.i
Client Sample ID: VSTD005

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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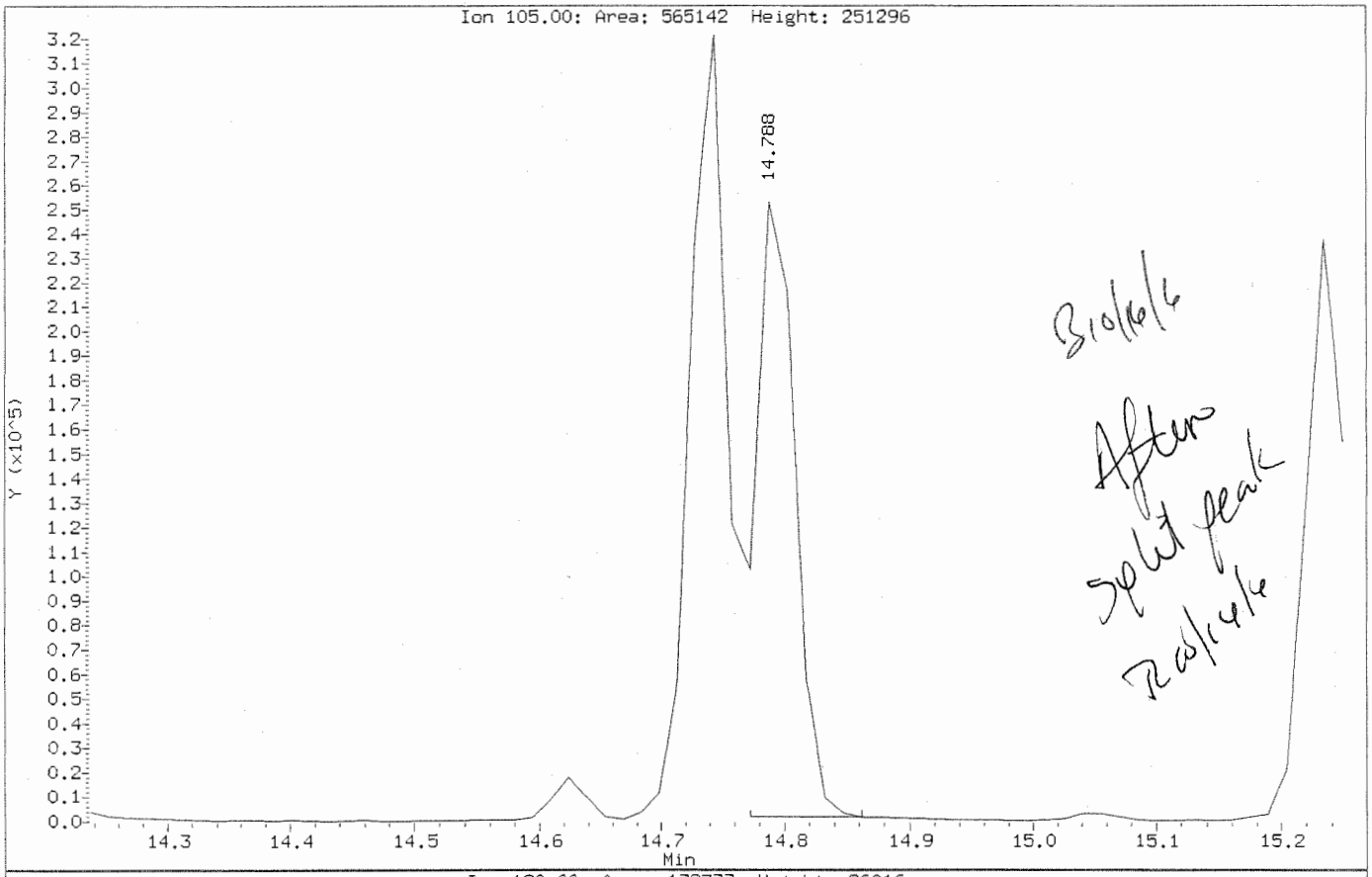
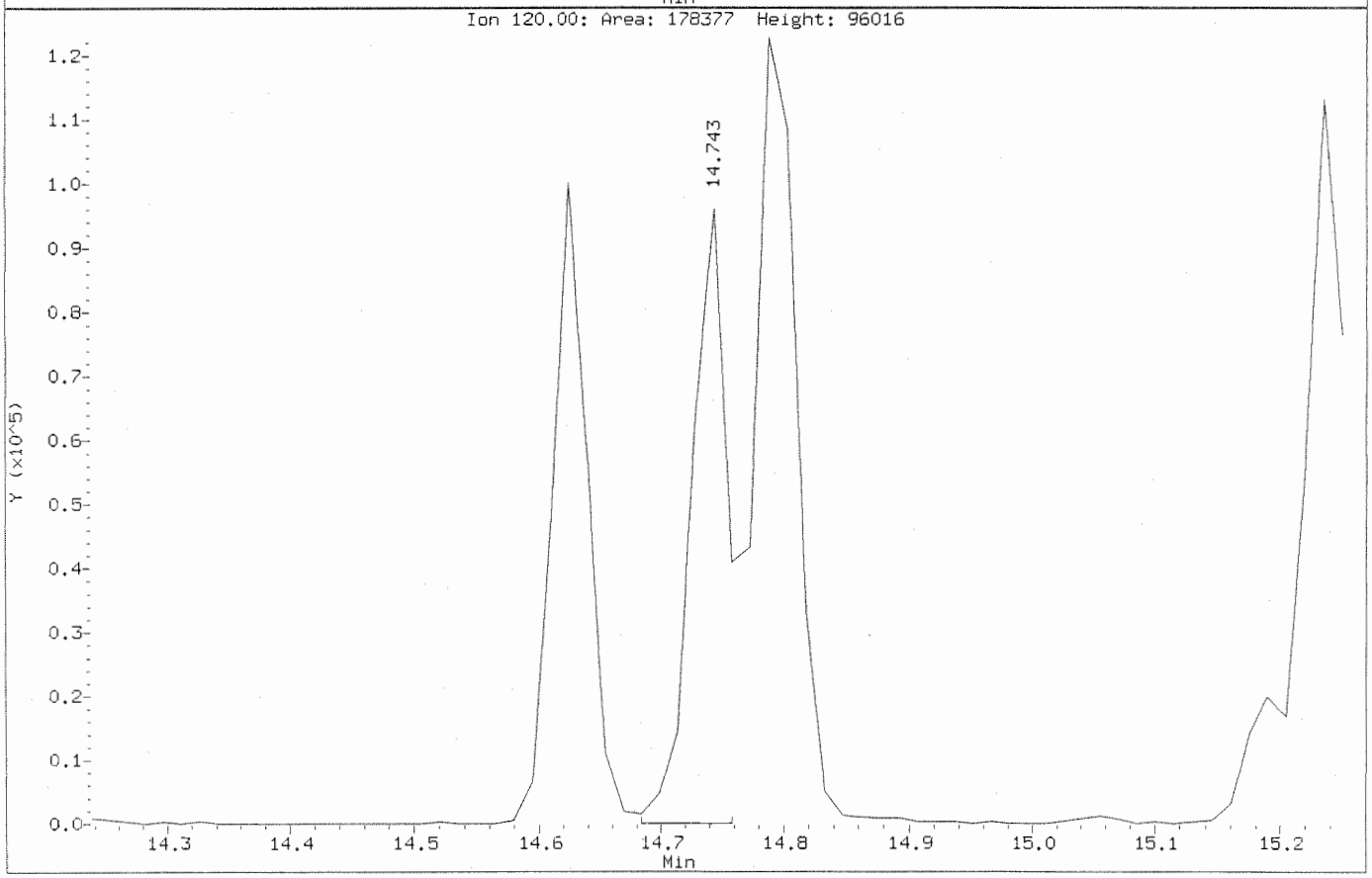
Injection Date: 13-OCT-2006 12:10
Instrument: MSK.i
Client Sample ID: VSTD005

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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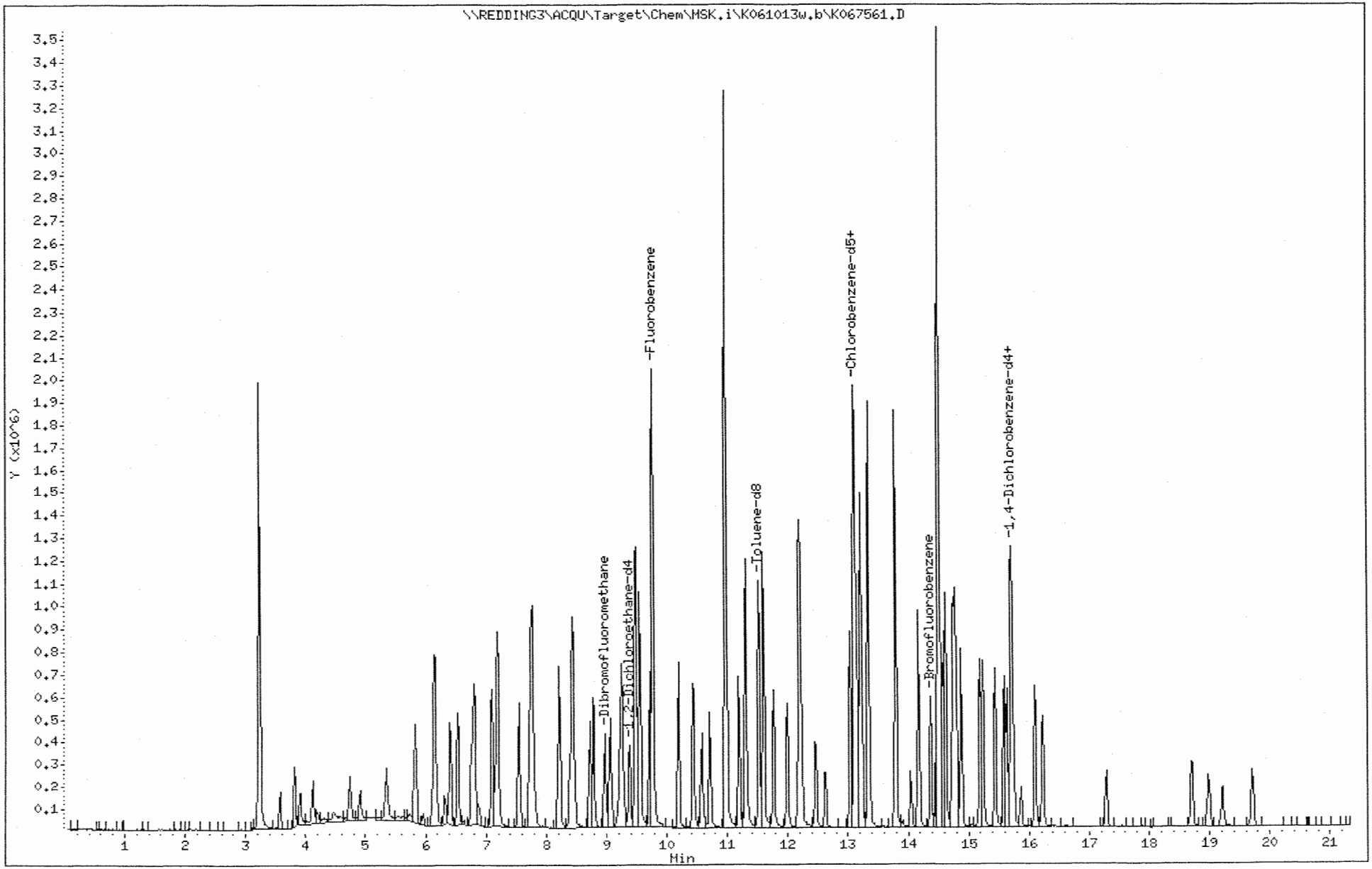
Date : 13-OCT-2006 12:10
Client ID: VSTD005
Sample Info: VSTD005;VSTD005
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067562.D
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Inj Date : 13-OCT-2006 12:36
Operator : X Inst ID: MSK.i
Smp Info : VSTD010;VSTD010
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\8260w10(0.5).m
Meth Date : 16-Oct-2006 10:14 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 12:36 Cal File: K067562.D
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	9.775	9.776	(1.000)	2242256	10.0000	
*	2 Chlorobenzene-d5	117	13.107	13.107	(1.000)	1401643	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.710	15.710	(1.000)	470714	10.0000	
$	4 Dibromofluoromethane	113	8.972	8.972	(0.918)	679540	10.0000	10.4
$	5 1,2-Dichloroethane-d4	65	9.389	9.389	(0.960)	702184	10.0000	10.5
$	6 Toluene-d8	98	11.516	11.516	(0.879)	1860821	10.0000	10.2
$	7 Bromofluorobenzene	174	14.371	14.372	(0.915)	497419	10.0000	10.6
	8 Dichlorodifluoromethane	85	3.573	3.574	(0.366)	363685	10.0000	9.79
	9 1,2-Dichlorotetrafluoroethane	85	3.811	3.811	(0.390)	408845	10.0000	9.79
	10 Chloromethane	50	3.900	3.916	(0.399)	333230	10.0000	9.18
	11 Vinyl chloride	62	4.123	4.123	(0.422)	429818	10.0000	9.73
	12 Bromomethane	94	4.733	4.719	(0.484)	332609	10.0000	9.54
	13 Chloroethane	64	4.912	4.897	(0.502)	235792	10.0000	9.87
	14 Trichlorofluoromethane	101	5.343	5.344	(0.547)	521021	10.0000	9.59
	15 1,1,2-Trichlorotrifluoroethane	101	6.131	6.132	(0.627)	508555	10.0000	9.96
	16 Acrolein	56	5.953	5.953	(0.609)	141405	100.000	85.5
	17 1,1-Dichloroethene	96	6.161	6.162	(0.630)	419519	10.0000	9.68
	18 Acetone	43	6.176	6.176	(0.632)	640482	50.0000	52.4
	19 Bromoethane	108	6.414	6.400	(0.656)	409257	10.0000	10.2
	20 Iodomethane	142	6.399	6.400	(0.655)	800947	10.0000	10.0
	21 Carbon disulfide	76	6.533	6.533	(0.668)	1933498	10.0000	9.84
	22 Methylene chloride	84	6.815	6.816	(0.697)	656595	10.0000	9.60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	tert-Butanol	59	6.875	6.876	(0.703)	256957	100.000	81.5
24	Acrylonitrile	53	7.098	7.099	(0.726)	1409201	100.000	94.1
25	n-Hexane	57	8.214	8.214	(0.840)	493299	10.0000	10.0
26	trans-1,2-Dichloroethene	96	7.202	7.203	(0.737)	544372	10.0000	9.79
27	tert-Butylmethylether	73	7.172	7.173	(0.734)	1218007	10.0000	10.0
28	1,1-Dichloroethane	63	7.723	7.723	(0.790)	1103175	10.0000	10.0
29	Isopropylether	45	7.767	7.768	(0.795)	2465878	10.0000	10.3
30	Vinyl acetate	43	7.723	7.723	(0.790)	2012567	10.0000	9.72
31	tert-Butylethylether	59	8.214	8.214	(0.840)	1683859	10.0000	9.97
32	2,2-Dichloropropane	77	8.452	8.452	(0.865)	784589	10.0000	9.80
33	cis-1,2-Dichloroethene	96	8.437	8.436	(0.863)	608049	10.0000	9.80
M 34	1,2-Dichloroethene (total)	96				1152421	20.0000	19.6
35	2-Butanone	43	8.392	8.393	(0.859)	999937	50.0000	45.7
36	Bromochloromethane	128	8.734	8.734	(0.893)	323071	10.0000	9.58
37	Chloroform	83	8.779	8.779	(0.898)	1136002	10.0000	10.1
38	1,1,1-Trichloroethane	97	9.061	9.062	(0.927)	762548	10.0000	9.77
39	Isobutyl alcohol	43	9.552	9.553	(0.977)	592827	250.000	252
40	1,1-Dichloropropene	75	9.240	9.240	(0.945)	744751	10.0000	9.90
41	Carbon tetrachloride	119	9.270	9.270	(0.948)	597609	10.0000	9.82
42	tert-Amylmethylether	73	9.552	9.553	(0.977)	1478082	10.0000	10.1
43	Benzene	78	9.493	9.493	(0.971)	2393878	10.0000	9.95
44	1,2-Dichloroethane	62	9.478	9.478	(0.970)	789110	10.0000	9.79
45	Trichloroethene	95	10.192	10.192	(1.043)	607711	10.0000	9.52
46	1,2-Dichloropropane	63	10.430	10.445	(1.067)	645244	10.0000	9.62
47	1,4-Dioxane	88	10.549	10.549	(1.079)	64143	250.000	239
48	Dibromomethane	93	10.579	10.579	(1.082)	396668	10.0000	9.64
49	Bromodichloromethane	83	10.712	10.713	(1.096)	809478	10.0000	9.45
50	2-Chloroethylvinyl ether	63	10.965	10.981	(1.122)	3795881	100.000	107
51	cis-1,3-Dichloropropene	75	11.188	11.189	(1.145)	983209	10.0000	9.88
52	4-Methyl-2-pentanone	43	11.307	11.308	(1.157)	2465440	50.0000	49.4
53	Toluene	92	11.590	11.591	(0.884)	1328869	10.0000	9.62
54	trans-1,3-Dichloropropene	75	11.768	11.769	(0.898)	836608	10.0000	9.47
55	1,1,2-Trichloroethane	83	11.992	11.992	(0.915)	440605	10.0000	9.21
56	Tetrachloroethene	166	12.230	12.230	(0.933)	643406	10.0000	9.43
57	1,3-Dichloropropane	76	12.185	12.186	(0.930)	837361	10.0000	9.38
58	2-Hexanone	43	12.200	12.200	(0.931)	1559840	50.0000	49.8
59	Dibromochloromethane	129	12.453	12.468	(0.950)	595049	10.0000	9.20
60	1,2-Dibromoethane	107	12.616	12.632	(0.963)	499040	10.0000	9.26
61	1-Chlorohexane	91	13.033	13.033	(0.994)	685495	10.0000	10.1
62	Chlorobenzene	112	13.137	13.152	(1.002)	1369427	10.0000	9.31
63	1,1,1,2-Tetrachloroethane	131	13.211	13.212	(1.008)	548997	10.0000	9.24
64	Ethylbenzene	91	13.226	13.227	(1.009)	2116802	10.0000	9.89
65	m-,p-Xylene	106	13.345	13.346	(1.018)	1359715	20.0000	19.3
66	o-Xylene	106	13.791	13.792	(1.052)	637710	10.0000	9.81
M 67	Xylene (total)	106				1997425	30.0000	29.2
68	Styrene	104	13.791	13.792	(1.052)	1109961	10.0000	9.89
69	Bromoform	173	14.044	14.045	(1.071)	316532	10.0000	9.35
70	Isopropylbenzene	105	14.178	14.179	(1.082)	1641326	10.0000	10.1
71	1,1,2,2-Tetrachloroethane	83	14.461	14.461	(0.920)	462693	10.0000	9.37
72	Bromobenzene	156	14.580	14.580	(0.928)	526238	10.0000	9.49
73	1,2,3-Trichloropropane	110	14.535	14.551	(0.925)	108338	10.0000	10.8
74	n-Propylbenzene	120	14.624	14.625	(0.931)	411210	10.0000	9.97
75	trans-1,4-Dichloro-2-butene	53	14.505	14.506	(0.923)	1136410	10.0000	9.89(A)
76	2-Chlorotoluene	126	14.773	14.774	(0.940)	400121	10.0000	9.93

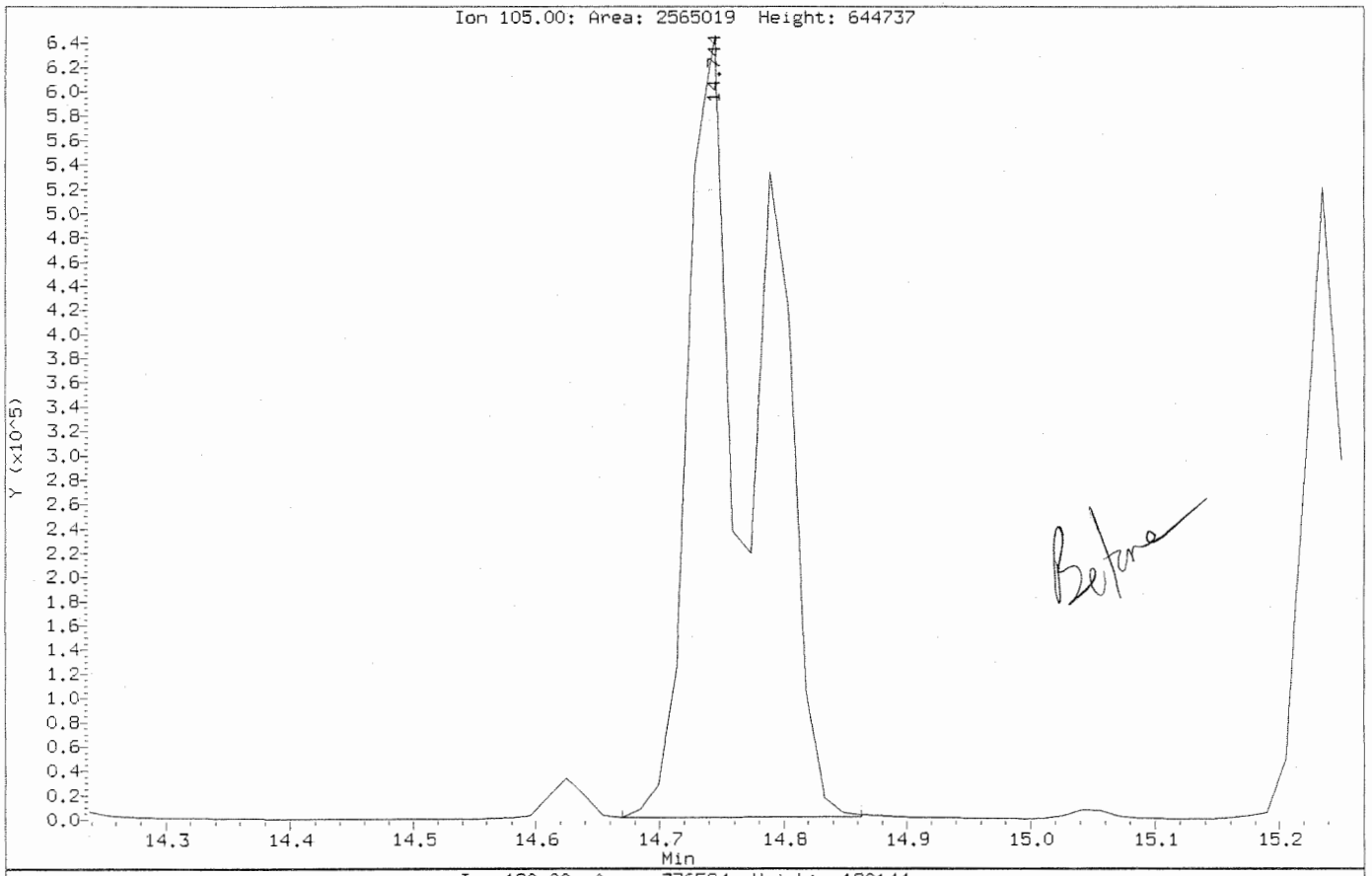
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 4-Ethyltoluene	105	14.743	14.744	(0.938)	1601956	10.0000	11.0(AM)
78 1,3,5-Trimethylbenzene	105	14.788	14.803	(0.941)	1147491	10.0000	8.84(M)
79 4-Chlorotoluene	126	14.877	14.878	(0.947)	397601	10.0000	9.75
80 tert-Butylbenzene	119	15.189	15.190	(0.967)	1081226	10.0000	10.2
81 1,2,4-Trimethylbenzene	105	15.234	15.235	(0.970)	1106512	10.0000	10.2
82 sec-Butylbenzene	105	15.442	15.443	(0.983)	1328983	10.0000	10.1
83 1,3-Dichlorobenzene	146	15.636	15.636	(0.995)	748987	10.0000	9.46
84 p-Isopropyltoluene	119	15.591	15.592	(0.992)	1094343	10.0000	10.1
85 1,4-Dichlorobenzene	146	15.740	15.740	(1.002)	772071	10.0000	9.27
86 BenzylChloride	126	14.877	14.878	(0.947)	397601	10.0000	9.75
87 n-Butylbenzene	91	16.097	16.097	(1.025)	1081193	10.0000	10.1
88 1,2-Dichlorobenzene	146	16.231	16.231	(1.033)	672014	10.0000	9.38
89 1,2-Dibromo-3-chloropropane	75	17.287	17.287	(1.100)	207820	40.0000	35.5
90 1,2,4-Trichlorobenzene	180	18.715	18.715	(1.191)	405307	10.0000	9.45
91 Hexachlorobutadiene	225	18.982	18.998	(1.208)	203266	10.0000	9.18
92 Naphthalene	128	19.220	19.221	(1.223)	663079	10.0000	9.70
93 1,2,3-Trichlorobenzene	180	19.711	19.712	(1.255)	364938	10.0000	9.47

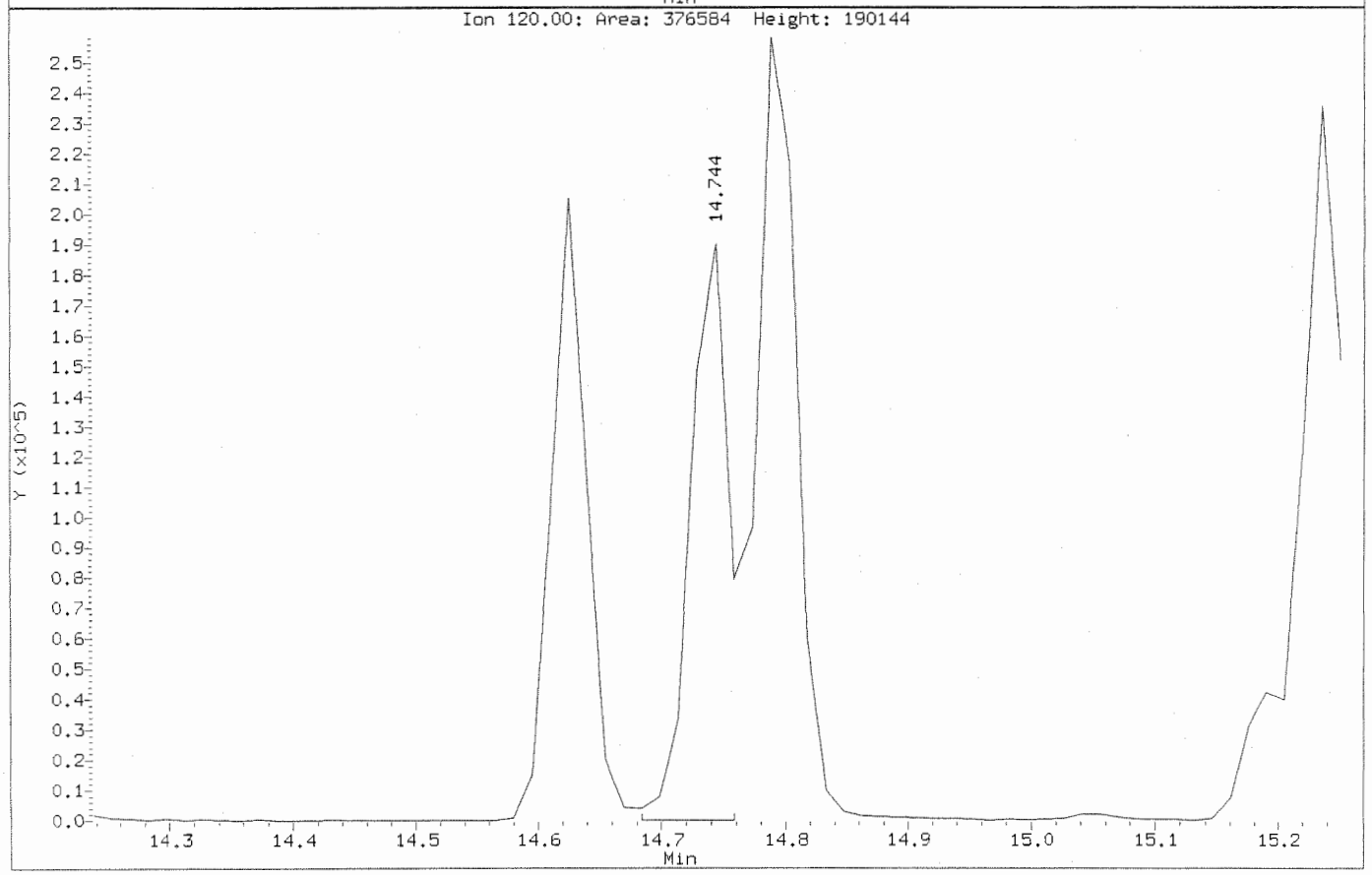
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067562.D
Injection Date: 13-OCT-2006 12:36
Instrument: MSK.i
Client Sample ID: VSTD010

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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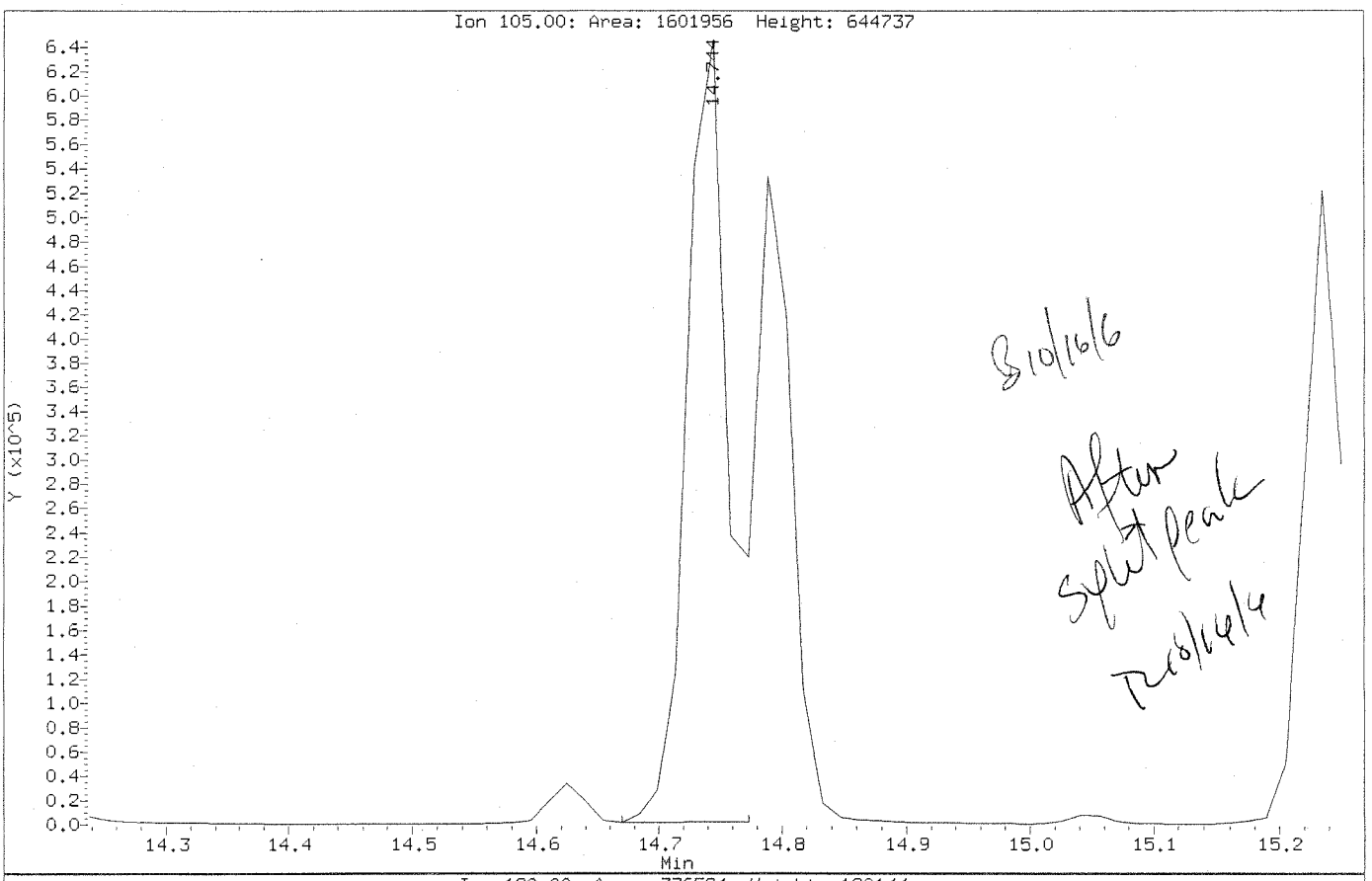
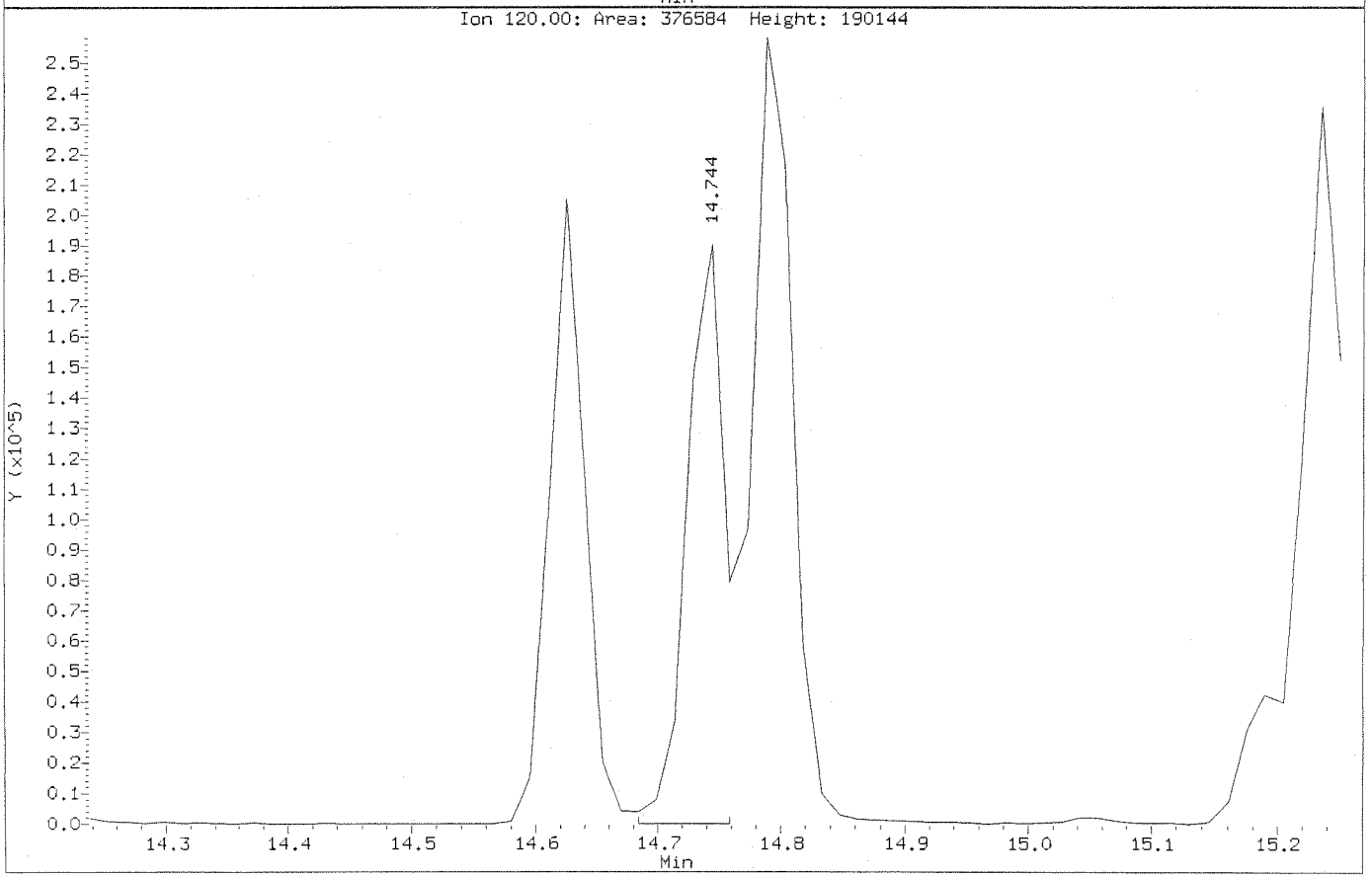
Injection Date: 13-OCT-2006 12:36
Instrument: MSK.i
Client Sample ID: VSTD010

Compound: 4-Ethyltoluene
CAS Number: 622-96-8





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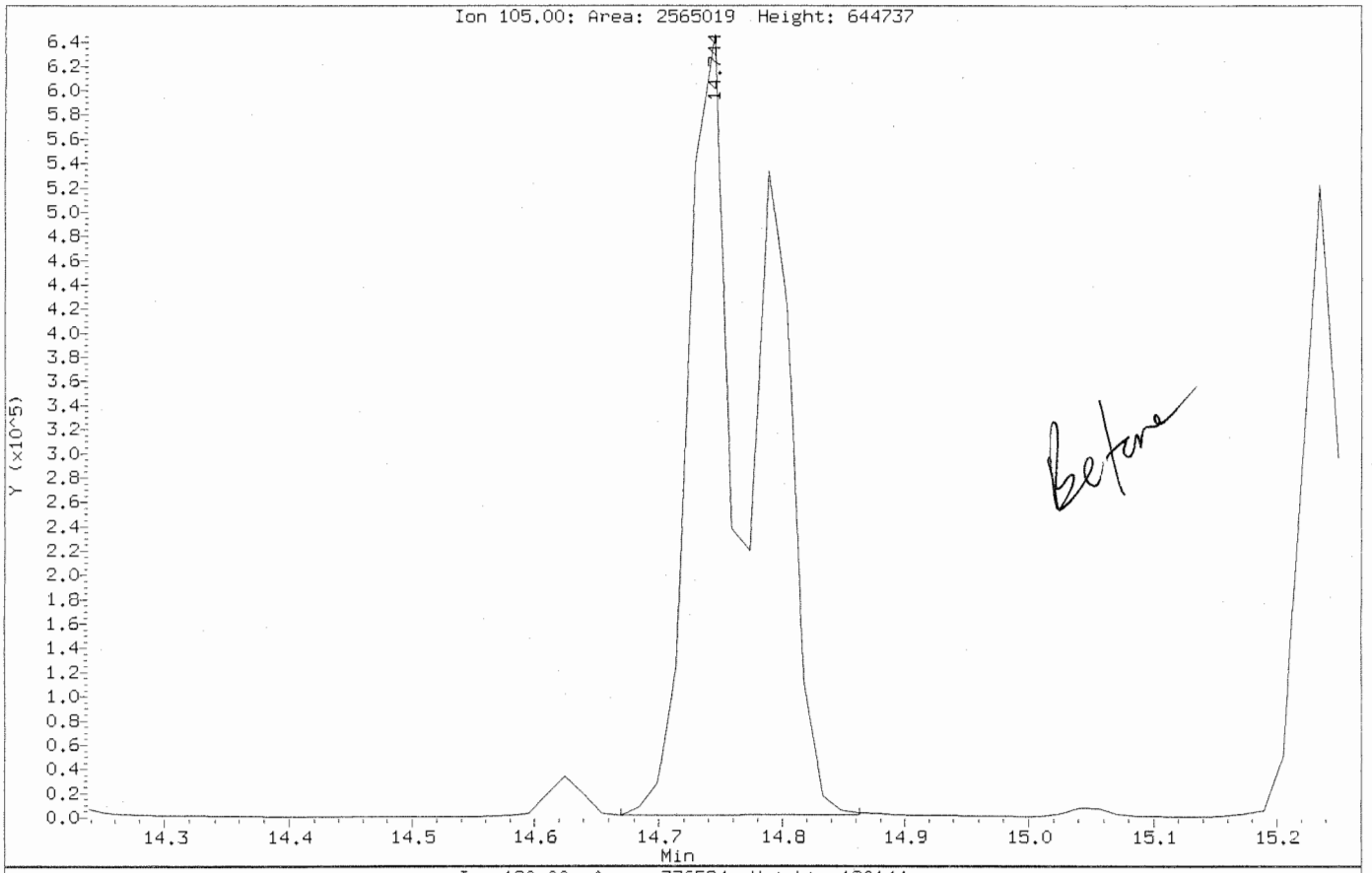
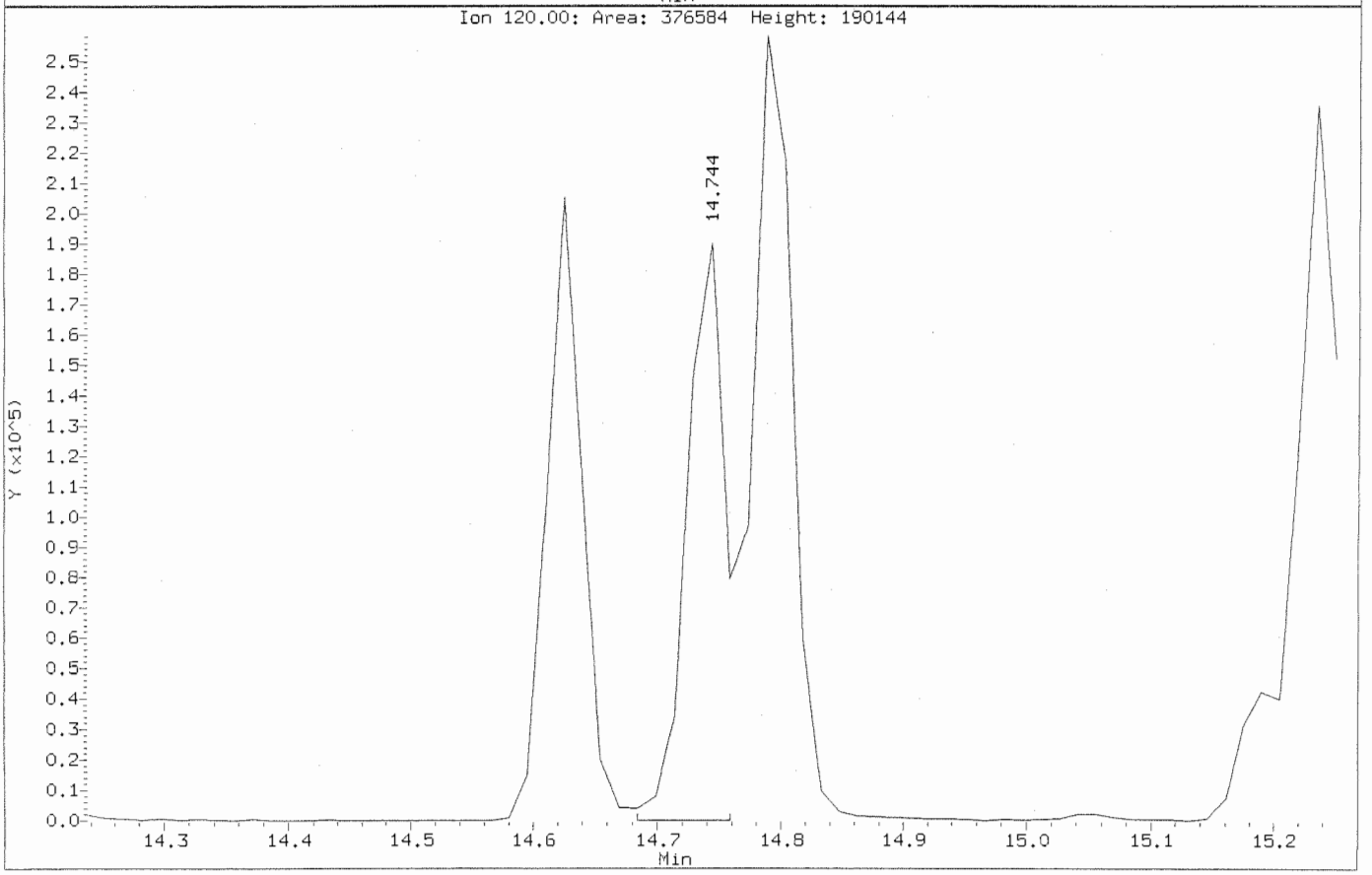
Injection Date: 13-OCT-2006 12:36
Instrument: MSK.i
Client Sample ID: VSTD010

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





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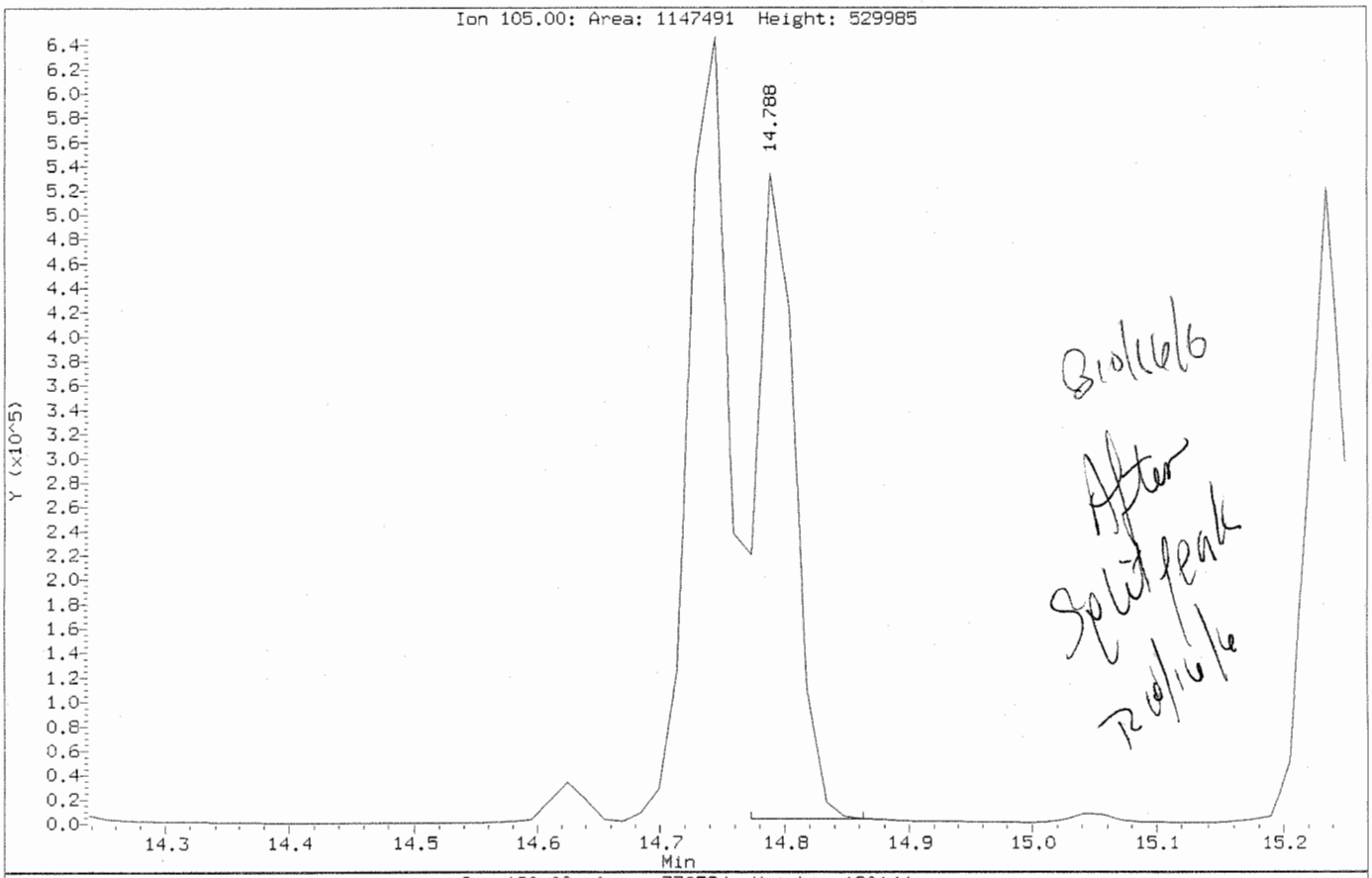
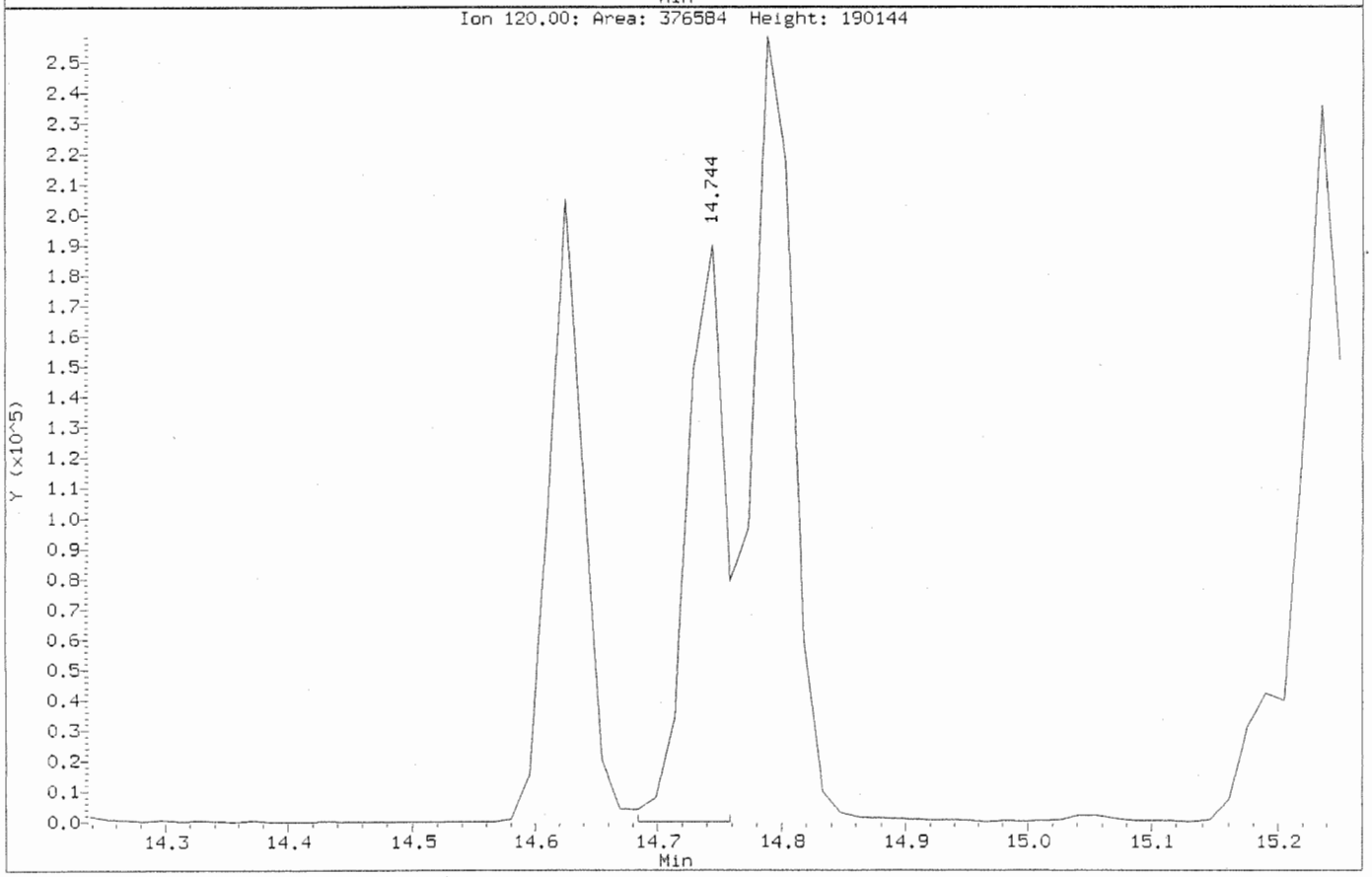
Injection Date: 13-OCT-2006 12:36
Instrument: MSK.i
Client Sample ID: VSTD010

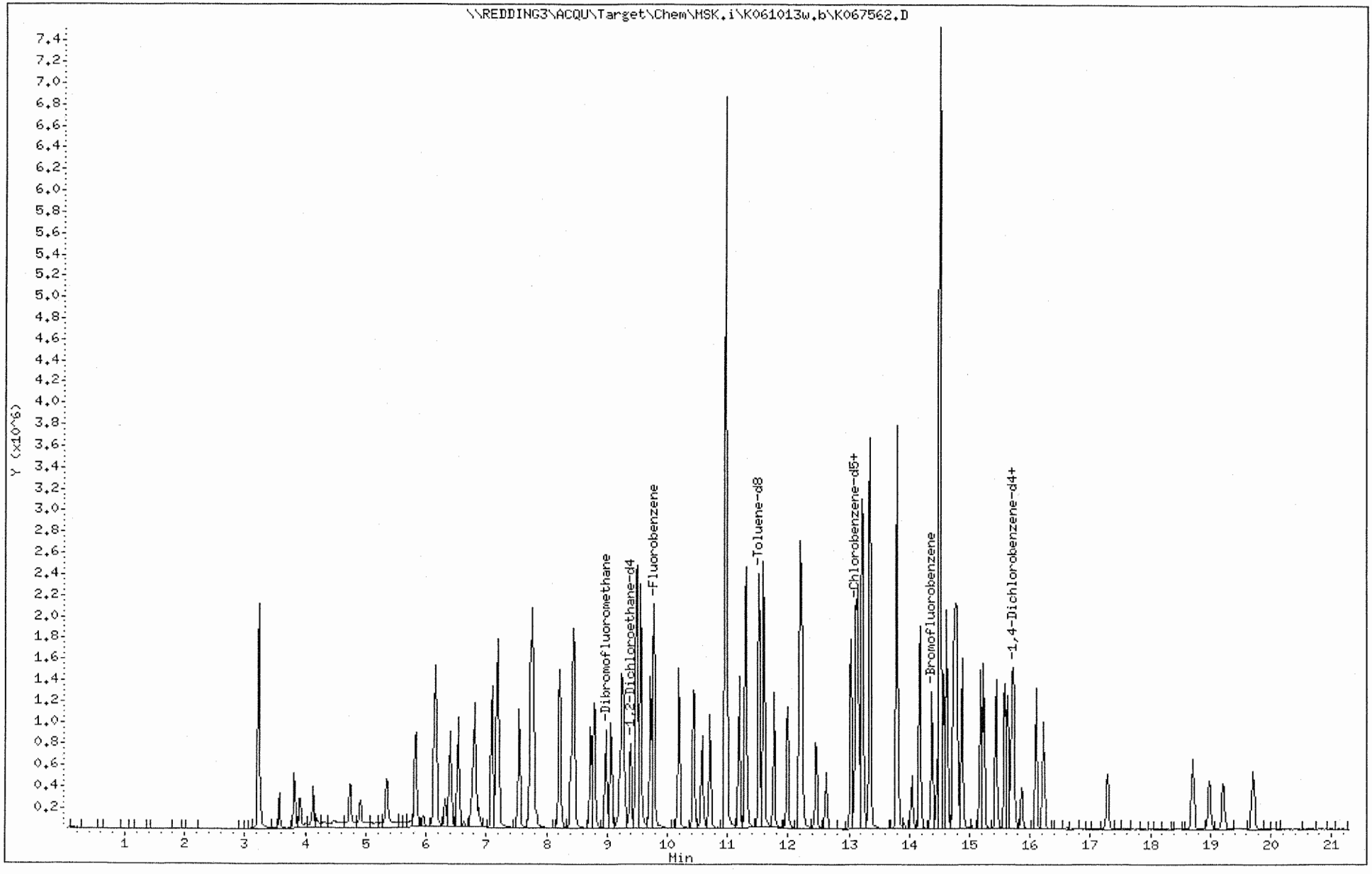
Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8





Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067562.D
Date : 13-OCT-2006 12:36
Client ID: VSTD010
Sample Info: VSTD010;VSTD010
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067563.D
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Inj Date : 13-OCT-2006 13:03
Operator : X Inst ID: MSK.i
Smp Info : VSTD020;VSTD020
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\8260w10(0.5).m
Meth Date : 16-Oct-2006 10:14 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:03 Cal File: K067563.D
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1	Fluorobenzene	96	9.773	9.776	(1.000)	2308507	10.0000	
* 2	Chlorobenzene-d5	117	13.119	13.107	(1.000)	1372560	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.707	15.710	(1.000)	479799	10.0000	
$ 4	Dibromofluoromethane	113	8.969	8.972	(0.918)	1333610	20.0000	19.9
$ 5	1,2-Dichloroethane-d4	65	9.386	9.389	(0.960)	1299536	20.0000	18.9
$ 6	Toluene-d8	98	11.528	11.516	(0.879)	3735344	20.0000	20.9
$ 7	Bromofluorobenzene	174	14.369	14.372	(0.915)	970946	20.0000	20.2
8	Dichlorodifluoromethane	85	3.570	3.574	(0.365)	721904	20.0000	18.9(Q)
9	1,2-Dichlorotetrafluoroethane	85	3.808	3.811	(0.390)	828917	20.0000	19.3(Q)
10	Chloromethane	50	3.912	3.916	(0.400)	704871	20.0000	18.9
11	Vinyl chloride	62	4.120	4.123	(0.422)	865693	20.0000	19.0
12	Bromomethane	94	4.745	4.719	(0.486)	687244	20.0000	19.1
13	Chloroethane	64	4.909	4.897	(0.502)	471985	20.0000	19.2
14	Trichlorofluoromethane	101	5.355	5.344	(0.548)	1046884	20.0000	18.7
15	1,1,2-Trichlorotrifluoroethane	101	6.143	6.132	(0.629)	1022082	20.0000	19.4
16	Acrolein	56	5.965	5.953	(0.610)	285195	200.000	167(Q)
17	1,1-Dichloroethene	96	6.158	6.162	(0.630)	834512	20.0000	18.7
18	Acetone	43	6.173	6.176	(0.632)	1178138	100.000	97.4
19	Bromoethane	108	6.411	6.400	(0.656)	813280	20.0000	20.4
20	Iodomethane	142	6.411	6.400	(0.656)	1628113	20.0000	20.6
21	Carbon disulfide	76	6.545	6.533	(0.670)	3913413	20.0000	19.3
22	Methylene chloride	84	6.813	6.816	(0.697)	1312169	20.0000	18.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 tert-Butanol	59	6.872	6.876	(0.703)	510337	200.000	157
	24 Acrylonitrile	53	7.095	7.099	(0.726)	2852113	200.000	185
	25 n-Hexane	57	8.211	8.214	(0.840)	1022405	20.0000	20.1
	26 trans-1,2-Dichloroethene	96	7.199	7.203	(0.737)	1119218	20.0000	19.6
	27 tert-Butylmethylether	73	7.170	7.173	(0.734)	2448909	20.0000	19.5
	28 1,1-Dichloroethane	63	7.735	7.723	(0.791)	2213352	20.0000	19.6
	29 Isopropylether	45	7.765	7.768	(0.795)	5092186	20.0000	20.6
	30 Vinyl acetate	43	7.735	7.723	(0.791)	4092862	20.0000	19.2
	31 tert-Butylethylether	59	8.211	8.214	(0.840)	3524235	20.0000	20.3
	32 2,2-Dichloropropane	77	8.464	8.452	(0.866)	1588123	20.0000	19.2(Q)
	33 cis-1,2-Dichloroethene	96	8.434	8.436	(0.863)	1227202	20.0000	19.2
M	34 1,2-Dichloroethene (total)	96				2346420	40.0000	38.8
	35 2-Butanone	43	8.404	8.393	(0.860)	2023385	100.000	89.8
	36 Bromochloromethane	128	8.731	8.734	(0.893)	664286	20.0000	19.1(Q)
	37 Chloroform	83	8.791	8.779	(0.900)	2283049	20.0000	20.3
	38 1,1,1-Trichloroethane	97	9.073	9.062	(0.928)	1559480	20.0000	19.4(Q)
	39 Isobutyl alcohol	43	9.549	9.553	(0.977)	1206440	500.000	499(Q)
	40 1,1-Dichloropropene	75	9.252	9.240	(0.947)	1576611	20.0000	20.4
	41 Carbon tetrachloride	119	9.282	9.270	(0.950)	1232479	20.0000	19.7
	42 tert-Amylmethylether	73	9.549	9.553	(0.977)	3033596	20.0000	20.1
	43 Benzene	78	9.490	9.493	(0.971)	5008930	20.0000	20.2
	44 1,2-Dichloroethane	62	9.475	9.478	(0.970)	1554869	20.0000	18.7
	45 Trichloroethene	95	10.189	10.192	(1.043)	1263606	20.0000	19.2
	46 1,2-Dichloropropane	63	10.442	10.445	(1.068)	1359201	20.0000	19.7
	47 1,4-Dioxane	88	10.561	10.549	(1.081)	133850	500.000	468(Q)
	48 Dibromomethane	93	10.576	10.579	(1.082)	787953	20.0000	18.6
	49 Bromodichloromethane	83	10.710	10.713	(1.096)	1679191	20.0000	19.0
	50 2-Chloroethylvinyl ether	63	10.977	10.981	(1.123)	7580599	200.000	207
	51 cis-1,3-Dichloropropene	75	11.200	11.189	(1.146)	2021050	20.0000	19.7
	52 4-Methyl-2-pentanone	43	11.305	11.308	(1.157)	4942768	100.000	96.2
	53 Toluene	92	11.602	11.591	(0.884)	2718736	20.0000	20.1
	54 trans-1,3-Dichloropropene	75	11.766	11.769	(0.897)	1703218	20.0000	19.7
	55 1,1,2-Trichloroethane	83	11.989	11.992	(0.914)	883951	20.0000	18.9
	56 Tetrachloroethene	166	12.227	12.230	(0.932)	1319302	20.0000	19.7
	57 1,3-Dichloropropane	76	12.182	12.186	(0.929)	1728093	20.0000	19.8
	58 2-Hexanone	43	12.197	12.200	(0.930)	3088854	100.000	101
	59 Dibromochloromethane	129	12.465	12.468	(0.950)	1232514	20.0000	19.5
	60 1,2-Dibromoethane	107	12.628	12.632	(0.963)	1030503	20.0000	19.5
	61 1-Chlorohexane	91	13.030	13.033	(0.993)	1456267	20.0000	22.0
	62 Chlorobenzene	112	13.149	13.152	(1.002)	2770238	20.0000	19.2(Q)
	63 1,1,1,2-Tetrachloroethane	131	13.208	13.212	(1.007)	1122466	20.0000	19.3
	64 Ethylbenzene	91	13.223	13.227	(1.008)	4260198	20.0000	20.3
	65 m-,p-Xylene	106	13.342	13.346	(1.017)	2791681	40.0000	40.6
	66 o-Xylene	106	13.789	13.792	(1.051)	1306959	20.0000	20.5
M	67 Xylene (total)	106				4098640	60.0000	61.1
	68 Styrene	104	13.789	13.792	(1.051)	2281152	20.0000	20.8
	69 Bromoform	173	14.041	14.045	(1.070)	663391	20.0000	20.0
	70 Isopropylbenzene	105	14.175	14.179	(1.080)	3404881	20.0000	21.4
	71 1,1,2,2-Tetrachloroethane	83	14.458	14.461	(0.920)	878357	20.0000	17.4
	72 Bromobenzene	156	14.577	14.580	(0.928)	1049576	20.0000	18.6
	73 1,2,3-Trichloropropane	110	14.547	14.551	(0.926)	209228	20.0000	23.2(Q)
	74 n-Propylbenzene	120	14.621	14.625	(0.931)	838868	20.0000	20.0
	75 trans-1,4-Dichloro-2-butene	53	14.502	14.506	(0.923)	2099361	20.0000	17.9(A)
	76 2-Chlorotoluene	126	14.770	14.774	(0.940)	786792	20.0000	19.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77 4-Ethyltoluene	105	14.740	14.744	(0.938)	2971814	20.0000	20.1(A)
78 1,3,5-Trimethylbenzene	105	14.800	14.803	(0.942)	2318027	20.0000	18.2(QH)
79 4-Chlorotoluene	126	14.874	14.878	(0.947)	813660	20.0000	19.6
80 tert-Butylbenzene	119	15.187	15.190	(0.967)	2226132	20.0000	20.6
81 1,2,4-Trimethylbenzene	105	15.231	15.235	(0.970)	2307330	20.0000	20.8
82 sec-Butylbenzene	105	15.440	15.443	(0.983)	2770396	20.0000	20.7
83 1,3-Dichlorobenzene	146	15.633	15.636	(0.995)	1541049	20.0000	19.1
84 p-Isopropyltoluene	119	15.588	15.592	(0.992)	2297089	20.0000	20.9
85 1,4-Dichlorobenzene	146	15.737	15.740	(1.002)	1551549	20.0000	18.3
86 BenzylChloride	126	14.874	14.878	(0.947)	813660	20.0000	19.6
87 n-Butylbenzene	91	16.094	16.097	(1.025)	2282422	20.0000	20.8
88 1,2-Dichlorobenzene	146	16.228	16.231	(1.033)	1395331	20.0000	19.1
89 1,2-Dibromo-3-chloropropane	75	17.284	17.287	(1.100)	415114	80.0000	69.6(Q)
90 1,2,4-Trichlorobenzene	180	18.712	18.715	(1.191)	883029	20.0000	20.2
91 Hexachlorobutadiene	225	18.994	18.998	(1.209)	434015	20.0000	19.2
92 Naphthalene	128	19.218	19.221	(1.223)	1492339	20.0000	21.4
93 1,2,3-Trichlorobenzene	180	19.708	19.712	(1.255)	789249	20.0000	20.1

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067563.D

Date : 13-OCT-2006 13:03

Client ID: VSTD020

Instrument: MSK.i

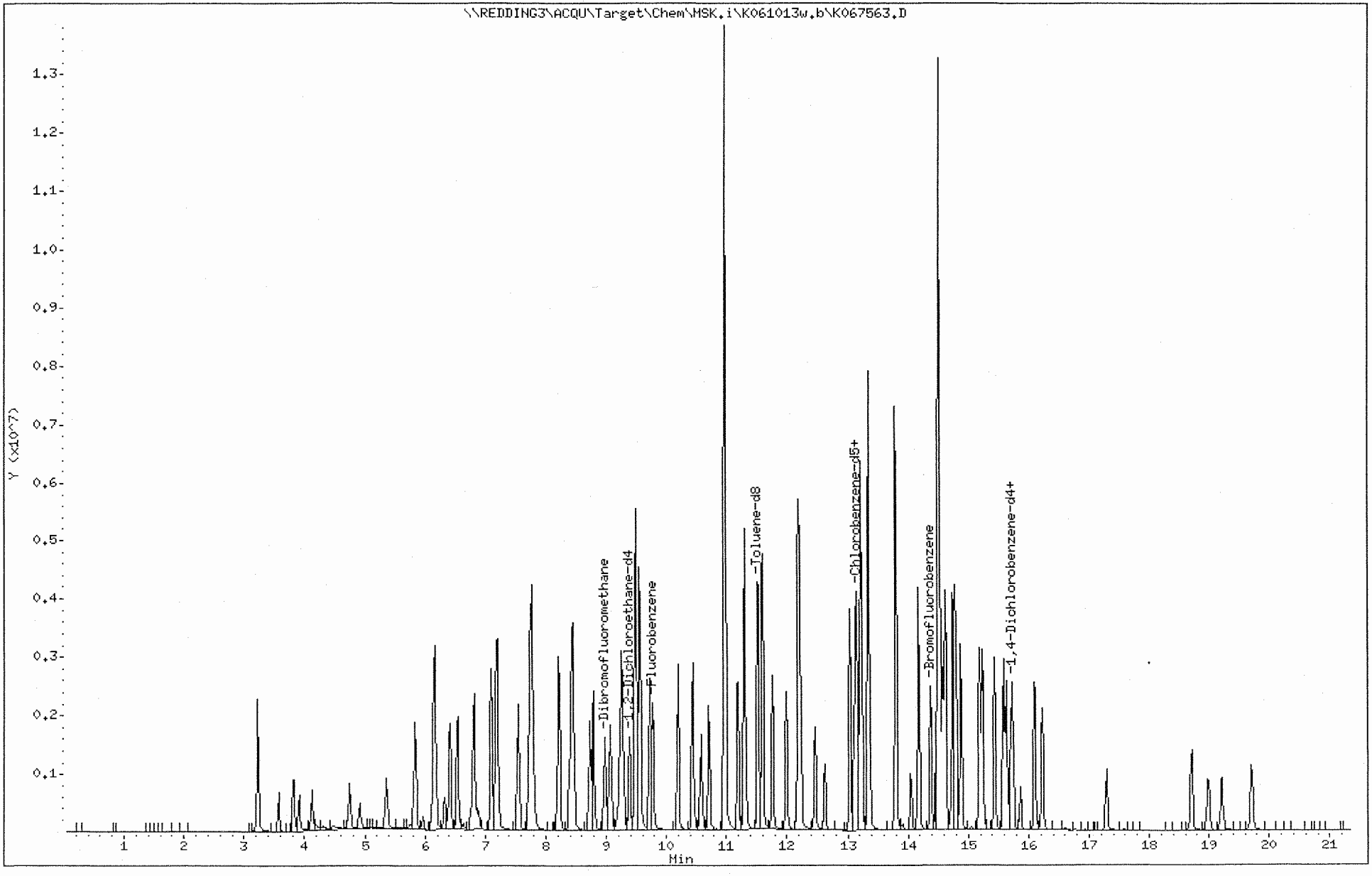
Sample Info: VSTD020;VSTD020

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067564.D
Lab Smp Id: VSTD040 Client Smp ID: VSTD040
Inj Date : 13-OCT-2006 13:30
Operator : X Inst ID: MSK.i
Smp Info : VSTD040;VSTD040
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\8260w10(0.5).m
Meth Date : 16-Oct-2006 10:14 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:30 Cal File: K067564.D
Als bottle: 11 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	9.774	9.776	(1.000)	2267456	10.0000	
*	2 Chlorobenzene-d5	117	13.106	13.107	(1.000)	1346593	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.709	15.710	(1.000)	485098	10.0000	
$	4 Dibromofluoromethane	113	8.971	8.972	(0.918)	2498059	40.0000	37.9
$	5 1,2-Dichloroethane-d4	65	9.388	9.389	(0.960)	2460238	40.0000	36.5
$	6 Toluene-d8	98	11.515	11.516	(0.879)	7283979	40.0000	41.6(A)
$	7 Bromofluorobenzene	174	14.370	14.372	(0.915)	1818963	40.0000	37.5
	8 Dichlorodifluoromethane	85	3.572	3.574	(0.365)	1393864	40.0000	37.1(Q)
	9 1,2-Dichlorotetrafluoroethane	85	3.810	3.811	(0.390)	1575897	40.0000	37.3(Q)
	10 Chloromethane	50	3.914	3.916	(0.400)	1348350	40.0000	36.7
	11 Vinyl chloride	62	4.122	4.123	(0.422)	1713668	40.0000	38.4
	12 Bromomethane	94	4.732	4.719	(0.484)	1352588	40.0000	38.4
	13 Chloroethane	64	4.911	4.897	(0.502)	906150	40.0000	37.5
	14 Trichlorofluoromethane	101	5.342	5.344	(0.547)	2066397	40.0000	37.6
	15 1,1,2-Trichlorotrifluoroethane	101	6.130	6.132	(0.627)	1953049	40.0000	37.8
	16 Acrolein	56	5.952	5.953	(0.609)	644794	400.000	385(Q)
	17 1,1-Dichloroethene	96	6.160	6.162	(0.630)	1646981	40.0000	37.6
	18 Acetone	43	6.175	6.176	(0.632)	2385097	200.000	206(A)
	19 Bromoethane	108	6.413	6.400	(0.656)	1595326	40.0000	41.5(A)
	20 Iodomethane	142	6.398	6.400	(0.655)	3222503	40.0000	42.4(A)
	21 Carbon disulfide	76	6.532	6.533	(0.668)	7973899	40.0000	40.1(A)
	22 Methylene chloride	84	6.814	6.816	(0.697)	2630140	40.0000	38.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	23 tert-Butanol	59	6.874	6.876	(0.703)	1155304	400.000	362
	24 Acrylonitrile	53	7.097	7.099	(0.726)	5933249	400.000	392
	25 n-Hexane	57	8.213	8.214	(0.840)	2096495	40.0000	42.0(A)
	26 trans-1,2-Dichloroethene	96	7.201	7.203	(0.737)	2143337	40.0000	38.1
	27 tert-Butylmethylether	73	7.171	7.173	(0.734)	5030202	40.0000	40.8(A)
	28 1,1-Dichloroethane	63	7.722	7.723	(0.790)	4304527	40.0000	38.7
	29 Isopropylether	45	7.766	7.768	(0.795)	10097329	40.0000	41.6(A)
	30 Vinyl acetate	43	7.722	7.723	(0.790)	8339509	40.0000	39.8
	31 tert-Butylethylether	59	8.213	8.214	(0.840)	7298924	40.0000	42.7(A)
	32 2,2-Dichloropropane	77	8.451	8.452	(0.865)	3142934	40.0000	38.8(Q)
	33 cis-1,2-Dichloroethene	96	8.436	8.436	(0.863)	2417445	40.0000	38.5
M	34 1,2-Dichloroethene (total)	96				4560782	80.0000	76.6
	35 2-Butanone	43	8.391	8.393	(0.858)	4401046	200.000	199
	36 Bromochloromethane	128	8.733	8.734	(0.893)	1323803	40.0000	38.8
	37 Chloroform	83	8.793	8.779	(0.900)	4457264	40.0000	40.8(A)
	38 1,1,1-Trichloroethane	97	9.060	9.062	(0.927)	3065634	40.0000	38.8(Q)
	39 Isobutyl alcohol	43	9.551	9.553	(0.977)	2465464	1000.00	1040(AQ)
	40 1,1-Dichloropropene	75	9.239	9.240	(0.945)	3121584	40.0000	41.0(A)
	41 Carbon tetrachloride	119	9.269	9.270	(0.948)	2457976	40.0000	39.9
	42 tert-Amylmethylether	73	9.551	9.553	(0.977)	6258377	40.0000	42.2(A)
	43 Benzene	78	9.492	9.493	(0.971)	9781397	40.0000	40.2(A)
	44 1,2-Dichloroethane	62	9.477	9.478	(0.970)	3070686	40.0000	37.6
	45 Trichloroethene	95	10.191	10.192	(1.043)	2462451	40.0000	38.1
	46 1,2-Dichloropropane	63	10.444	10.445	(1.068)	2649245	40.0000	39.1
	47 1,4-Dioxane	88	10.548	10.549	(1.079)	286113	1000.00	1000(AQ)
	48 Dibromomethane	93	10.578	10.579	(1.082)	1579090	40.0000	37.9
	49 Bromodichloromethane	83	10.711	10.713	(1.096)	3357238	40.0000	38.7
	50 2-Chloroethylvinyl ether	63	10.964	10.981	(1.122)	14612067	400.000	407(A)
	51 cis-1,3-Dichloropropene	75	11.187	11.189	(1.145)	4094868	40.0000	40.7(A)
	52 4-Methyl-2-pentanone	43	11.306	11.308	(1.157)	10654979	200.000	211(A)
	53 Toluene	92	11.589	11.591	(0.884)	5476483	40.0000	41.3(A)
	54 trans-1,3-Dichloropropene	75	11.768	11.769	(0.898)	3571982	40.0000	42.1(A)
	55 1,1,2-Trichloroethane	83	11.991	11.992	(0.915)	1796994	40.0000	39.1
	56 Tetrachloroethene	166	12.229	12.230	(0.933)	2624931	40.0000	40.0(A)
	57 1,3-Dichloropropane	76	12.184	12.186	(0.930)	3397299	40.0000	39.6
	58 2-Hexanone	43	12.199	12.200	(0.931)	6297351	200.000	209(A)
	59 Dibromochloromethane	129	12.467	12.468	(0.951)	2531242	40.0000	40.8(A)
	60 1,2-Dibromcethane	107	12.630	12.632	(0.964)	2092917	40.0000	40.4(A)
	61 1-Chlorohexane	91	13.032	13.033	(0.994)	2854777	40.0000	43.9(A)
	62 Chlorobenzene	112	13.151	13.152	(1.003)	5444710	40.0000	38.5(Q)
	63 1,1,1,2-Tetrachloroethane	131	13.210	13.212	(1.008)	2243099	40.0000	39.3
	64 Ethylbenzene	91	13.225	13.227	(1.009)	8366657	40.0000	40.7(A)
	65 m-,p-Xylene	106	13.344	13.346	(1.018)	5559523	80.0000	82.3(A)
	66 o-Xylene	106	13.790	13.792	(1.052)	2596034	40.0000	41.6(A)
M	67 Xylene (total)	106				8155557	120.000	124
	68 Styrene	104	13.790	13.792	(1.052)	4591533	40.0000	42.6(A)
	69 Bromoform	173	14.043	14.045	(1.071)	1338663	40.0000	41.2(A)
	70 Isopropylbenzene	105	14.177	14.179	(1.082)	6643962	40.0000	42.5(A)
	71 1,1,2,2-Tetrachloroethane	83	14.460	14.461	(0.920)	1704029	40.0000	33.5
	72 Bromobenzene	156	14.579	14.580	(0.928)	2027285	40.0000	35.5
	73 1,2,3-Trichloropropane	110	14.534	14.551	(0.925)	385371	40.0000	44.9(AQ)
	74 n-Propylbenzene	120	14.623	14.625	(0.931)	1570125	40.0000	36.9
	75 trans-1,4-Dichloro-2-butene	53	14.504	14.506	(0.923)	3959393	40.0000	33.4(A)
	76 2-Chlorotoluene	126	14.772	14.774	(0.940)	1531144	40.0000	36.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77	4-Ethyltoluene	105	14.742	14.744	(0.938)	5884388	40.0000	39.4(A)
78	1,3,5-Trimethylbenzene	105	14.802	14.803	(0.942)	4408654	40.0000	35.6(QH)
79	4-Chlorotoluene	126	14.876	14.878	(0.947)	1556918	40.0000	37.1
80	tert-Butylbenzene	119	15.189	15.190	(0.967)	4356076	40.0000	39.9
81	1,2,4-Trimethylbenzene	105	15.233	15.235	(0.970)	4607367	40.0000	41.1(A)
82	sec-Butylbenzene	105	15.441	15.443	(0.983)	5567278	40.0000	41.2(A)
83	1,3-Dichlorobenzene	146	15.635	15.636	(0.995)	3144730	40.0000	38.5
84	p-Isopropyltoluene	119	15.590	15.592	(0.992)	4751044	40.0000	42.7(A)
85	1,4-Dichlorobenzene	146	15.739	15.740	(1.002)	3225463	40.0000	37.6
86	BenzylChloride	126	14.876	14.878	(0.947)	1556918	40.0000	37.1
87	n-Butylbenzene	91	16.096	16.097	(1.025)	4861082	40.0000	43.9(A)
88	1,2-Dichlorobenzene	146	16.230	16.231	(1.033)	2958917	40.0000	40.1(A)
89	1,2-Dibromo-3-chloropropane	75	17.286	17.287	(1.100)	930987	160.000	154(Q)
90	1,2,4-Trichlorobenzene	180	18.714	18.715	(1.191)	1911788	40.0000	43.2(A)
91	Hexachlorobutadiene	225	18.996	18.998	(1.209)	884558	40.0000	38.8
92	Naphthalene	128	19.219	19.221	(1.223)	3348561	40.0000	47.5(A)
93	1,2,3-Trichlorobenzene	180	19.710	19.712	(1.255)	1708226	40.0000	43.0(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067564.D

Date : 13-OCT-2006 13:30

Client ID: VSTD040

Instrument: MSK.i

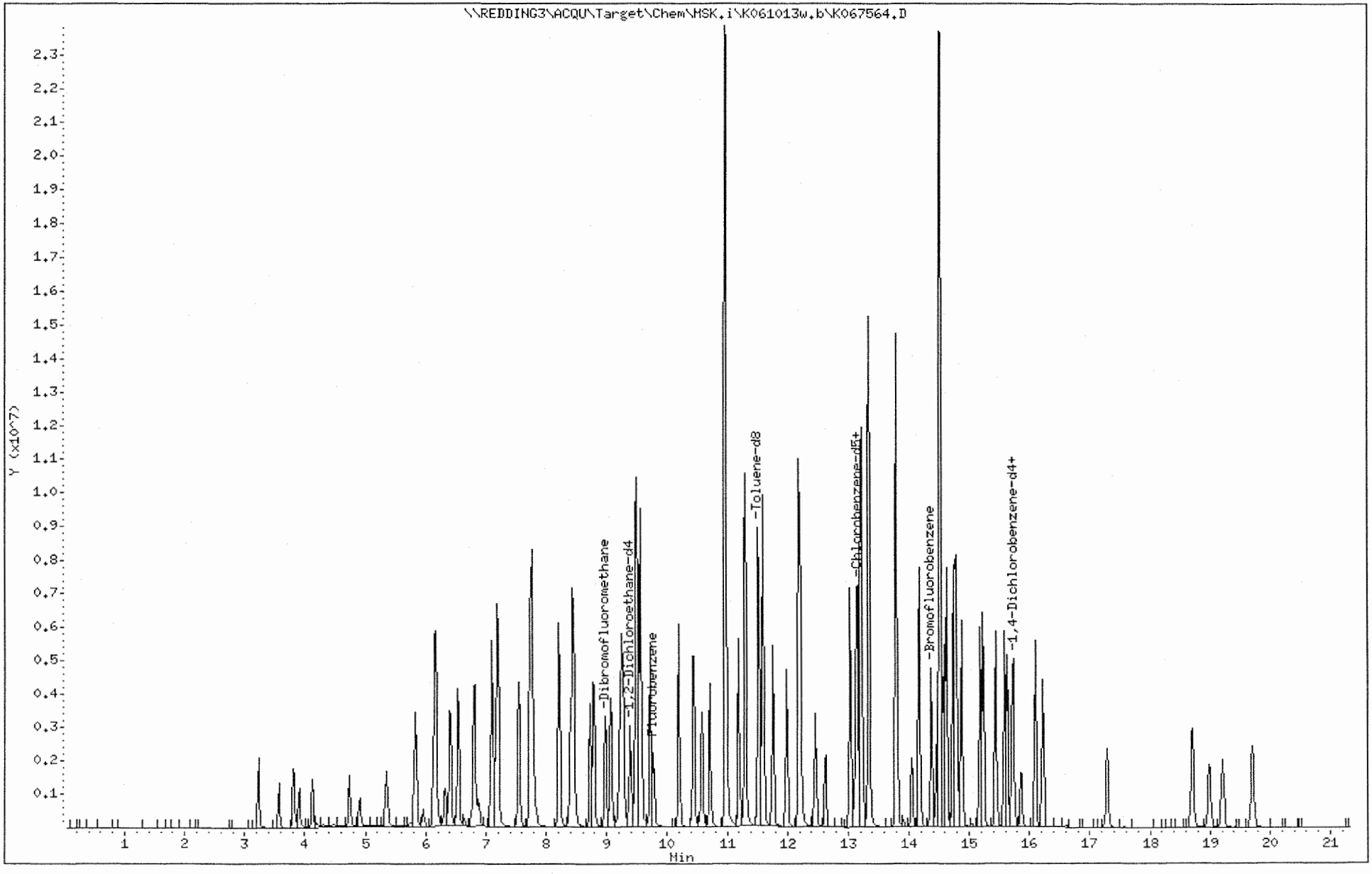
Sample Info: VSTD040;VSTD040

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067565.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 13-OCT-2006 13:56
Operator : X Inst ID: MSK.i
Smp Info : VSTD100;VSTD100
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\8260w10(0.5).m
Meth Date : 16-Oct-2006 10:14 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 12 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	9.775	9.776	(1.000)	2178563	10.0000	
*	2 Chlorobenzene-d5	117	13.107	13.107	(1.000)	1227762	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.710	15.710	(1.000)	488569	10.0000	
$	4 Dibromofluoromethane	113	8.972	8.972	(0.918)	6254491	100.000	98.8(A)
$	5 1,2-Dichloroethane-d4	65	9.389	9.389	(0.960)	5789426	100.000	89.4(A)
$	6 Toluene-d8	98	11.516	11.516	(0.879)	16376897	100.000	102(A)
$	7 Bromofluorobenzene	174	14.372	14.372	(0.915)	4308623	100.000	88.3(A)
	8 Dichlorodifluoromethane	85	3.573	3.574	(0.366)	3288746	100.000	91.1(AQ)
	9 1,2-Dichlorotetrafluoroethane	85	3.811	3.811	(0.390)	3579804	100.000	88.2(AQ)
	10 Chloromethane	50	3.915	3.916	(0.401)	3483719	100.000	98.8(A)
	11 Vinyl chloride	62	4.123	4.123	(0.422)	4011195	100.000	93.4(A)
	12 Bromomethane	94	4.718	4.719	(0.483)	3331172	100.000	98.3(A)
	13 Chloroethane	64	4.897	4.897	(0.501)	2123017	100.000	91.5(A)
	14 Trichlorofluoromethane	101	5.343	5.344	(0.547)	5124499	100.000	97.1(A)
	15 1,1,2-Trichlorotrifluoroethane	101	6.131	6.132	(0.627)	4480851	100.000	90.3(A)
	16 Acrolein	56	5.953	5.953	(0.609)	1666929	1000.00	1040(AQ)
	17 1,1-Dichloroethene	96	6.161	6.162	(0.630)	3992547	100.000	94.8(A)
	18 Acetone	43	6.176	6.176	(0.632)	5470610	500.000	498(A)
	19 Bromoethane	108	6.399	6.400	(0.655)	3627996	100.000	99.3(A)
	20 Iodomethane	142	6.399	6.400	(0.655)	7128265	100.000	98.8(A)
	21 Carbon disulfide	76	6.533	6.533	(0.668)	18062100	100.000	94.6(A)
	22 Methylene chloride	84	6.816	6.816	(0.697)	6250588	100.000	94.1(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	tert-Butanol	59	6.875	6.876	(0.703)	2479192	1000.00	809(A)
24	Acrylonitrile	53	7.098	7.099	(0.726)	13828443	1000.00	951(A)
25	n-Hexane	57	8.214	8.214	(0.840)	4928325	100.000	103(A)
26	trans-1,2-Dichloroethene	96	7.202	7.203	(0.737)	4993261	100.000	92.4(A)
27	tert-Butylmethylether	73	7.173	7.173	(0.734)	12042428	100.000	102(A)
28	1,1-Dichloroethane	63	7.723	7.723	(0.790)	9903517	100.000	92.7(A)
29	Isopropylether	45	7.767	7.768	(0.795)	22031162	100.000	94.4(A)
30	Vinyl acetate	43	7.723	7.723	(0.790)	19681580	100.000	97.9(A)
31	tert-Butylethylether	59	8.214	8.214	(0.840)	17271630	100.000	105(A)
32	2,2-Dichloropropane	77	8.452	8.452	(0.865)	7410141	100.000	95.2(AQ)
33	cis-1,2-Dichloroethene	96	8.437	8.436	(0.863)	5657625	100.000	93.8(A)
M 34	1,2-Dichloroethene (total)	96				10650886	200.000	186
35	2-Butanone	43	8.392	8.393	(0.859)	10159245	500.000	478(A)
36	Bromochloromethane	128	8.734	8.734	(0.893)	3236066	100.000	98.8(A)
37	Chloroform	83	8.779	8.779	(0.898)	10372081	100.000	99.6(A)
38	1,1,1-Trichloroethane	97	9.062	9.062	(0.927)	7531389	100.000	99.3(AQ)
39	Isobutyl alcohol	43	9.552	9.553	(0.977)	5894139	2500.00	2580(AQ)
40	1,1-Dichloropropene	75	9.240	9.240	(0.945)	7350477	100.000	101(A)
41	Carbon tetrachloride	119	9.270	9.270	(0.948)	6106203	100.000	103(A)
42	tert-Amylmethylether	73	9.552	9.553	(0.977)	15152944	100.000	106(A)
43	Benzene	78	9.493	9.493	(0.971)	20023096	100.000	85.7(A)
44	1,2-Dichloroethane	62	9.478	9.478	(0.970)	7163424	100.000	91.4(A)
45	Trichloroethene	95	10.192	10.192	(1.043)	5999450	100.000	96.7(A)
46	1,2-Dichloropropane	63	10.445	10.445	(1.068)	6407974	100.000	98.4(A)
47	1,4-Dioxane	88	10.549	10.549	(1.079)	695011	2500.00	2510(AQ)
48	Dibromomethane	93	10.579	10.579	(1.082)	3740876	100.000	93.5(A)
49	Bromodichloromethane	83	10.713	10.713	(1.096)	8384156	100.000	101(A)
50	2-Chloroethylvinyl ether	63	10.980	10.981	(1.123)	21912517	1000.00	635(A)
51	cis-1,3-Dichloropropene	75	11.188	11.189	(1.145)	10045264	100.000	104(A)
52	4-Methyl-2-pentanone	43	11.307	11.308	(1.157)	18706987	500.000	386(A)
53	Toluene	92	11.590	11.591	(0.884)	12869084	100.000	106(A)
54	trans-1,3-Dichloropropene	75	11.769	11.769	(0.898)	8516346	100.000	110(A)
55	1,1,2-Trichloroethane	83	11.992	11.992	(0.915)	4164035	100.000	99.4(A)
56	Tetrachloroethene	166	12.230	12.230	(0.933)	6248132	100.000	104(A)
57	1,3-Dichloropropane	76	12.185	12.186	(0.930)	7986136	100.000	102(A)
58	2-Hexanone	43	12.200	12.200	(0.931)	11143832	500.000	406(A)
59	Dibromochloromethane	129	12.468	12.468	(0.951)	6083043	100.000	107(A)
60	1,2-Dibromoethane	107	12.631	12.632	(0.964)	4876911	100.000	103(A)
61	1-Chlorohexane	91	13.033	13.033	(0.994)	6662441	100.000	112(A)
62	Chlorobenzene	112	13.152	13.152	(1.003)	12467666	100.000	96.8(AQ)
63	1,1,1,2-Tetrachloroethane	131	13.211	13.212	(1.008)	5130679	100.000	98.6(A)
64	Ethylbenzene	91	13.226	13.227	(1.009)	16598489	100.000	88.5(A)
65	m-,p-Xylene	106	13.345	13.346	(1.018)	12767816	200.000	207(AQ)
66	o-Xylene	106	13.791	13.792	(1.052)	5957092	100.000	105(A)
M 67	Xylene (total)	106				18724908	300.000	312
68	Styrene	104	13.791	13.792	(1.052)	10417833	100.000	106(A)
69	Bromoform	173	14.044	14.045	(1.071)	2800826	100.000	94.4(A)
70	Isopropylbenzene	105	14.178	14.179	(1.082)	14110378	100.000	99.0(A)
71	1,1,2,2-Tetrachloroethane	83	14.461	14.461	(0.920)	3847883	100.000	75.1(A)
72	Bromobenzene	156	14.580	14.580	(0.928)	4744351	100.000	82.4(A)
73	1,2,3-Trichloropropane	110	14.550	14.551	(0.926)	807044	100.000	96.8(AQ)
74	n-Propylbenzene	120	14.624	14.625	(0.931)	3848391	100.000	89.9(AQ)
75	trans-1,4-Dichloro-2-butene	53	14.505	14.506	(0.923)	7994277	100.000	67.0(A)
76	2-Chlorotoluene	126	14.773	14.774	(0.940)	3724442	100.000	89.0(A)

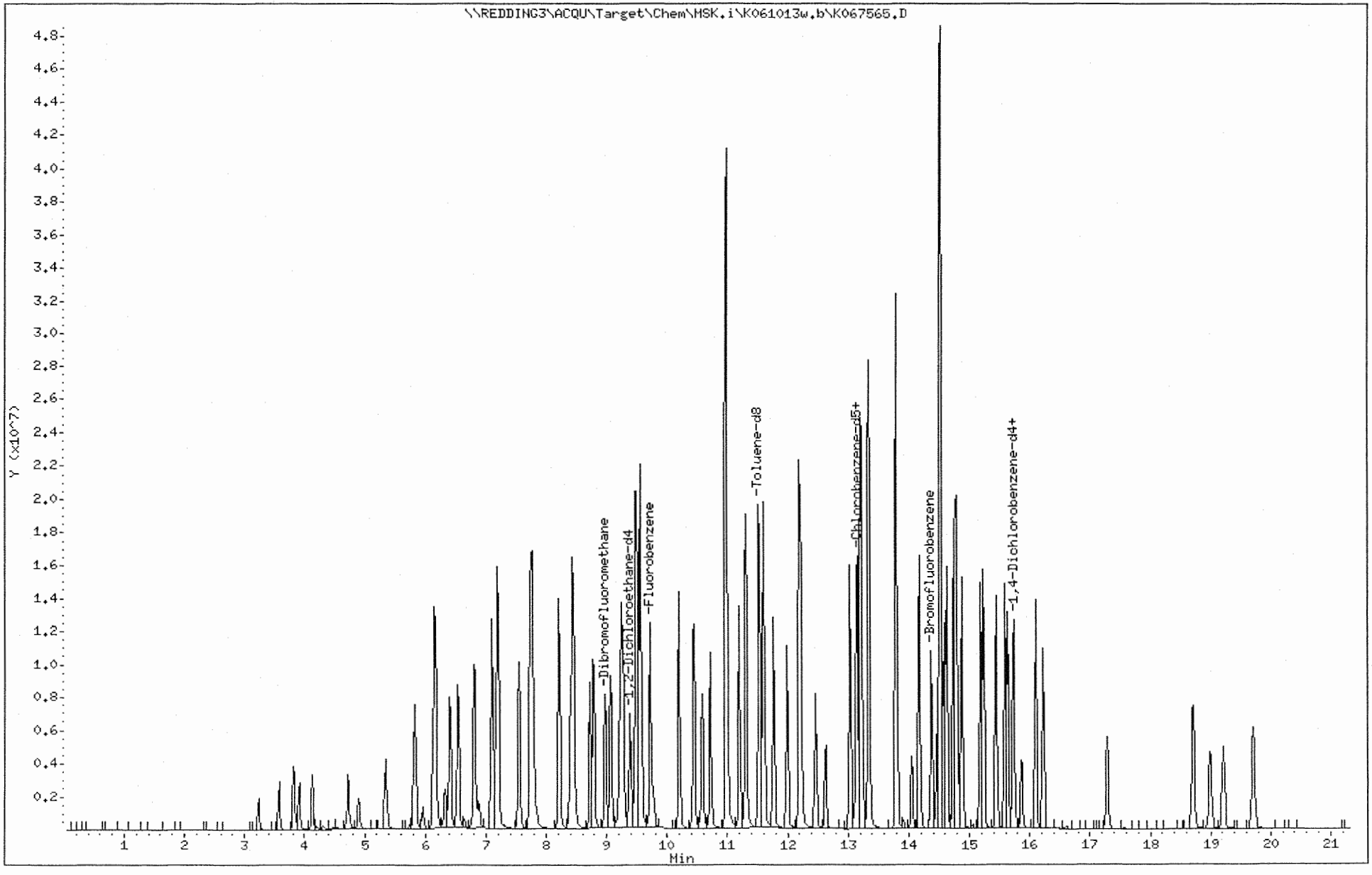
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77 4-Ethyltoluene	105	14.743	14.744	(0.938)	14082433	100.000	93.6(A)
78 1,3,5-Trimethylbenzene	105	14.803	14.803	(0.942)	11213903	100.000	93.0(AQH)
79 4-Chlorotoluene	126	14.877	14.878	(0.947)	3895525	100.000	92.1(A)
80 tert-Butylbenzene	119	15.190	15.190	(0.967)	11008394	100.000	100(A)
81 1,2,4-Trimethylbenzene	105	15.234	15.235	(0.970)	11701405	100.000	104(A)
82 sec-Butylbenzene	105	15.442	15.443	(0.983)	13656154	100.000	100(A)
83 1,3-Dichlorobenzene	146	15.636	15.636	(0.995)	8014001	100.000	97.5(A)
84 p-Isopropyltoluene	119	15.591	15.592	(0.992)	12287488	100.000	110(A)
85 1,4-Dichlorobenzene	146	15.740	15.740	(1.002)	8195464	100.000	94.8(A)
86 BenzylChloride	126	14.877	14.878	(0.947)	3895525	100.000	92.1(A)
87 n-Butylbenzene	91	16.097	16.097	(1.025)	12229662	100.000	110(A)
88 1,2-Dichlorobenzene	146	16.231	16.231	(1.033)	7332205	100.000	98.7(A)
89 1,2-Dibromo-3-chloropropane	75	17.287	17.287	(1.100)	2132595	400.000	351(AQ)
90 1,2,4-Trichlorobenzene	180	18.715	18.715	(1.191)	4886056	100.000	110(A)
91 Hexachlorobutadiene	225	18.997	18.998	(1.209)	2255615	100.000	98.1(A)
92 Naphthalene	128	19.220	19.221	(1.223)	8445027	100.000	119(A)
93 1,2,3-Trichlorobenzene	180	19.711	19.712	(1.255)	4298650	100.000	108(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067565.D
Date : 13-OCT-2006 13:56
Client ID: VSTD100
Sample Info: VSTD100;VSTD100
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/18/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID
A	U064372
B	U064373
C	U064374
D	U064375
E	U064376

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dichlorodifluoromethane (CFC 12)							C	5.000	0.117	D	25.00	0.113	E	50.00	0.111
	F	75.00	0.102	G	100.0	0.110									
* Chloromethane							C	5.000	0.233	D	25.00	0.226	E	50.00	0.227
	F	75.00	0.221	G	100.0	0.230									
# Vinyl Chloride							C	5.000	0.177	D	25.00	0.177	E	50.00	0.181
	F	75.00	0.171	G	100.0	0.177									
Bromomethane							C	5.000	0.036	D	25.00	0.041	E	50.00	0.041
	F	75.00	0.038	G	100.0	0.042									
Chloroethane							C	5.000	0.065	D	25.00	0.070	E	50.00	0.069
	F	75.00	0.061	G	100.0	0.067									
Trichlorofluoromethane (CFC 11)							C	5.000	0.228	D	25.00	0.226	E	50.00	0.221
	F	75.00	0.201	G	100.0	0.210									
1,1,2-Trichlorotrifluoroethane							C	5.000	0.135	D	25.00	0.141	E	50.00	0.141
	F	75.00	0.144	G	100.0	0.146									
# 1,1-Dichloroethene (1,1-DCE)							C	5.000	0.111	D	25.00	0.116	E	50.00	0.116
	F	75.00	0.114	G	100.0	0.113									
Acetone							C	25.00	0.111	D	125.0	0.104	E	250.0	0.110
	F	375.0	0.109	G	500.0	0.108									
Carbon Disulfide							C	5.000	0.360	D	25.00	0.370	E	50.00	0.368
	F	75.00	0.362	G	100.0	0.367									
Dichloromethane (Methylene Chloride)							C	5.000	0.148	D	25.00	0.126	E	50.00	0.123
	F	75.00	0.119	G	100.0	0.120									
trans-1,2-Dichloroethene							C	5.000	0.156	D	25.00	0.196	E	50.00	0.206
	F	75.00	0.194	G	100.0	0.189									
Methyl tert-Butyl Ether							C	5.000	0.571	D	25.00	0.625	E	50.00	0.635
	F	75.00	0.630	G	100.0	0.630									
* 1,1-Dichloroethane (1,1-DCA)							C	5.000	0.535	D	25.00	0.551	E	50.00	0.552
	F	75.00	0.573	G	100.0	0.578									
Vinyl Acetate							C	5.000	1.460	D	25.00	1.539	E	50.00	1.572
	F	75.00	1.609	G	100.0	1.699									
2,2-Dichloropropane							C	5.000	0.262	D	25.00	0.290	E	50.00	0.319
	F	75.00	0.343	G	100.0	0.356									
cis-1,2-Dichloroethene							C	5.000	0.256	D	25.00	0.268	E	50.00	0.263
	F	75.00	0.272	G	100.0	0.274									

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/18/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID
A	U064372
B	U064373
C	U064374
D	U064375
E	U064376

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Butanone (MEK)							C	25.00	0.240	D	125.0	0.241	E	250.0	0.260
	F	375.0	0.262	G	500.0	0.263									
Bromochloromethane							C	5.000	0.124	D	25.00	0.130	E	50.00	0.129
	F	75.00	0.130	G	100.0	0.132									
# Chloroform							C	5.000	0.426	D	25.00	0.442	E	50.00	0.441
	F	75.00	0.452	G	100.0	0.458									
1,1,1-Trichloroethane (TCA)							C	5.000	0.324	D	25.00	0.345	E	50.00	0.357
	F	75.00	0.370	G	100.0	0.383									
1,1-Dichloropropene							C	5.000	0.307	D	25.00	0.317	E	50.00	0.310
	F	75.00	0.315	G	100.0	0.316									
Carbon Tetrachloride							C	5.000	0.216	D	25.00	0.258	E	50.00	0.287
	F	75.00	0.300	G	100.0	0.318									
Benzene							C	5.000	1.006	D	25.00	1.019	E	50.00	0.996
	F	75.00	0.998	G	100.0	0.983									
1,2-Dichloroethane (EDC)							C	5.000	0.417	D	25.00	0.439	E	50.00	0.450
	F	75.00	0.456	G	100.0	0.461									
Trichloroethene (TCE)							C	5.000	0.269	D	25.00	0.274	E	50.00	0.278
	F	75.00	0.280	G	100.0	0.280									
# 1,2-Dichloropropane							C	5.000	0.325	D	25.00	0.333	E	50.00	0.337
	F	75.00	0.341	G	100.0	0.347									
Dibromomethane							C	5.000	0.150	D	25.00	0.158	E	50.00	0.161
	F	75.00	0.167	G	100.0	0.170									
Bromodichloromethane							C	5.000	0.290	D	25.00	0.324	E	50.00	0.338
	F	75.00	0.352	G	100.0	0.359									
cis-1,3-Dichloropropene							C	5.000	0.344	D	25.00	0.398	E	50.00	0.408
	F	75.00	0.413	G	100.0	0.417									
4-Methyl-2-pentanone (MIBK)							C	25.00	0.148	D	125.0	0.159	E	250.0	0.167
	F	375.0	0.166	G	500.0	0.162									
# Toluene							C	5.000	0.975	D	25.00	0.945	E	50.00	0.920
	F	75.00	0.899	G	100.0	0.872									
trans-1,3-Dichloropropene							C	5.000	0.397	D	25.00	0.517	E	50.00	0.558
	F	75.00	0.574	G	100.0	0.574									
1,1,2-Trichloroethane							C	5.000	0.246	D	25.00	0.270	E	50.00	0.282
	F	75.00	0.281	G	100.0	0.281									

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/18/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID
A	U064372
B	U064373
C	U064374
D	U064375
E	U064376

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Tetrachloroethene (PCE)							C	5.000	0.430	D	25.00	0.448	E	50.00	0.433
	F	75.00	0.426	G	100.0	0.418									
1,3-Dichloropropane							C	5.000	0.565	D	25.00	0.601	E	50.00	0.610
	F	75.00	0.613	G	100.0	0.607									
2-Hexanone							C	25.00	0.447	D	125.0	0.506	E	250.0	0.542
	F	375.0	0.507	G	500.0	0.497									
Dibromochloromethane							C	5.000	0.282	D	25.00	0.367	E	50.00	0.401
	F	75.00	0.410	G	100.0	0.417									
1,2-Dibromoethane (EDB)							C	5.000	0.318	D	25.00	0.365	E	50.00	0.380
	F	75.00	0.382	G	100.0	0.376									
* Chlorobenzene							C	5.000	1.011	D	25.00	0.973	E	50.00	0.933
	F	75.00	0.911	G	100.0	0.864									
1,1,1,2-Tetrachloroethane							C	5.000	0.290	D	25.00	0.372	E	50.00	0.403
	F	75.00	0.407	G	100.0	0.406									
# Ethylbenzene							C	5.000	1.661	D	25.00	1.585	E	50.00	1.524
	F	75.00	1.500	G	100.0	1.426									
Xylenes, Total							C	15.00	0.546	D	75.00	0.532	E	150.0	0.512
	F	225.0	0.504	G	300.0	0.474									
Styrene							C	5.000	0.910	D	25.00	0.909	E	50.00	0.862
	F	75.00	0.852	G	100.0	0.802									
* Bromoform							C	5.000	0.127	D	25.00	0.194	E	50.00	0.223
	F	75.00	0.220	G	100.0	0.220									
Isopropylbenzene							C	5.000	1.537	D	25.00	1.497	E	50.00	1.403
	F	75.00	1.370	G	100.0	1.267									
* 1,1,2,2-Tetrachloroethane							C	5.000	1.051	D	25.00	1.184	E	50.00	1.200
	F	75.00	1.133	G	100.0	1.136									
Bromobenzene							C	5.000	1.419	D	25.00	1.417	E	50.00	1.421
	F	75.00	1.419	G	100.0	1.368									
1,2,3-Trichloropropane							C	5.000	0.429	D	25.00	0.447	E	50.00	0.462
	F	75.00	0.440	G	100.0	0.426									
n-Propylbenzene							C	5.000	1.610	D	25.00	1.459	E	50.00	1.368
	F	75.00	1.288	G	100.0	1.195									
2-Chlorotoluene							C	5.000	1.246	D	25.00	1.197	E	50.00	1.181
	F	75.00	1.163	G	100.0	1.109									

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/18/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID
A	U064372
B	U064373
C	U064374
D	U064375
E	U064376

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,3,5-Trimethylbenzene							C	5.000	4.096	D	25.00	4.007	E	50.00	3.759
	F	75.00	3.517	G	100.0	3.218									
4-Chlorotoluene							C	5.000	1.209	D	25.00	1.169	E	50.00	1.126
	F	75.00	1.091	G	100.0	1.038									
tert-Butylbenzene							C	5.000	3.914	D	25.00	3.774	E	50.00	3.550
	F	75.00	3.471	G	100.0	3.228									
1,2,4-Trimethylbenzene							C	5.000	3.682	D	25.00	3.700	E	50.00	3.474
	F	75.00	3.349	G	100.0	3.160									
sec-Butylbenzene							C	5.000	5.108	D	25.00	4.909	E	50.00	4.600
	F	75.00	4.395	G	100.0	4.113									
1,3-Dichlorobenzene							C	5.000	1.734	D	25.00	1.723	E	50.00	1.702
	F	75.00	1.710	G	100.0	1.697									
4-Isopropyltoluene							C	5.000	3.968	D	25.00	3.886	E	50.00	3.654
	F	75.00	3.518	G	100.0	3.330									
1,4-Dichlorobenzene							C	5.000	1.704	D	25.00	1.672	E	50.00	1.679
	F	75.00	1.683	G	100.0	1.659									
n-Butylbenzene							C	5.000	2.913	D	25.00	2.914	E	50.00	2.747
	F	75.00	2.702	G	100.0	2.633									
1,2-Dichlorobenzene							C	5.000	1.372	D	25.00	1.412	E	50.00	1.457
	F	75.00	1.490	G	100.0	1.513									
1,2-Dibromo-3-chloropropane (DBCP)							C	20.00	0.097	D	100.0	0.129	E	200.0	0.156
	F	300.0	0.168	G	400.0	0.175									
1,2,4-Trichlorobenzene							C	5.000	0.883	D	25.00	0.918	E	50.00	0.970
	F	75.00	1.028	G	100.0	1.040									
Hexachlorobutadiene							C	5.000	0.552	D	25.00	0.570	E	50.00	0.587
	F	75.00	0.613	G	100.0	0.605									
Naphthalene							C	5.000	1.793	D	25.00	1.914	E	50.00	2.227
	F	75.00	2.478	G	100.0	2.556									
1,2,3-Trichlorobenzene							C	5.000	0.862	D	25.00	0.883	E	50.00	0.935
	F	75.00	1.005	G	100.0	1.022									
Dibromofluoromethane							C	5.000	0.261	D	25.00	0.281	E	50.00	0.265
	F	75.00	0.277	G	100.0	0.297									
1,2-Dichloroethane-d4							C	5.000	0.511	D	25.00	0.547	E	50.00	0.533
	F	75.00	0.560	G	100.0	0.597									

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* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/18/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID
A	U064372
B	U064373
C	U064374
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Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Toluene-d8							C	5.000	1.388	D	25.00	1.395	E	50.00	1.263
	F	75.00	1.284	G	100.0	1.304									
4-Bromofluorobenzene							C	5.000	1.438	D	25.00	1.431	E	50.00	1.353
	F	75.00	1.392	G	100.0	1.430									

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* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/18/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU
Mean RSD: 6.19

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
Dichlorodifluoromethane (CFC 12)	TRG	AverageRF	% RSD	4.7		15.0	0.111		0.01
* Chloromethane	TRG	AverageRF	% RSD	2.0		15.0	0.227		0.10
# Vinyl Chloride	TRG	AverageRF	% RSD	2.0		15.0	0.177		0.01
Bromomethane	TRG	AverageRF	% RSD	5.9		15.0	0.040		0.01
Chloroethane	TRG	AverageRF	% RSD	5.1		15.0	0.066		0.01
Trichlorofluoromethane (CFC 11)	TRG	AverageRF	% RSD	5.3		15.0	0.217		0.01
1,1,2-Trichlorotrifluoroethane	TRG	AverageRF	% RSD	3.1		15.0	0.141		0.01
# 1,1-Dichloroethene (1,1-DCE)	TRG	AverageRF	% RSD	1.8		15.0	0.114		0.01
Acetone	TRG	AverageRF	% RSD	2.5		15.0	0.108		0.01
Carbon Disulfide	TRG	AverageRF	% RSD	1.2		15.0	0.365		0.01
Dichloromethane (Methylene Chloride)	TRG	AverageRF	% RSD	9.2		15.0	0.127		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	10.2		15.0	0.188		0.01
Methyl tert-Butyl Ether	TRG	AverageRF	% RSD	4.3		15.0	0.618		0.01
* 1,1-Dichloroethane (1,1-DCA)	TRG	AverageRF	% RSD	3.2		15.0	0.558		0.10
Vinyl Acetate	TRG	AverageRF	% RSD	5.6		15.0	1.576		0.01
2,2-Dichloropropane	TRG	AverageRF	% RSD	12.3		15.0	0.314		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	2.8		15.0	0.267		0.01
2-Butanone (MEK)	TRG	AverageRF	% RSD	4.6		15.0	0.253		0.01
Bromochloromethane	TRG	AverageRF	% RSD	2.4		15.0	0.129		0.01
# Chloroform	TRG	AverageRF	% RSD	2.8		15.0	0.444		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	6.3		15.0	0.356		0.01
1,1-Dichloropropene	TRG	AverageRF	% RSD	1.3		15.0	0.313		0.01
Carbon Tetrachloride	TRG	AverageRF	% RSD	14.5		15.0	0.276		0.01
Benzene	TRG	AverageRF	% RSD	1.3		15.0	1.000		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	3.9		15.0	0.445		0.01
Trichloroethene (TCE)	TRG	AverageRF	% RSD	1.7		15.0	0.276		0.01
# 1,2-Dichloropropane	TRG	AverageRF	% RSD	2.5		15.0	0.337		0.01
Dibromomethane	TRG	AverageRF	% RSD	4.8		15.0	0.161		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	8.2		15.0	0.333		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	7.5		15.0	0.396		0.01
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF	% RSD	4.9		15.0	0.160		0.01
# Toluene	TRG	AverageRF	% RSD	4.3		15.0	0.922		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	14.2		15.0	0.524		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	5.5		15.0	0.272		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	2.6		15.0	0.431		0.01
1,3-Dichloropropane	TRG	AverageRF	% RSD	3.3		15.0	0.599		0.01
2-Hexanone	TRG	AverageRF	% RSD	6.8		15.0	0.500		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
ICAL Date: 10/18/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU
Mean RSD: 6.19

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
Dibromochloromethane	TRG	AverageRF	% RSD	14.9		15.0	0.375		0.01
1,2-Dibromoethane (EDB)	TRG	AverageRF	% RSD	7.4		15.0	0.364		0.01
* Chlorobenzene	TRG	AverageRF	% RSD	6.0		15.0	0.938		0.30
1,1,1,2-Tetrachloroethane	TRG	AverageRF	% RSD	13.3		15.0	0.376		0.01
# Ethylbenzene	TRG	AverageRF	% RSD	5.8		15.0	1.539		0.01
Xylenes, Total	TRG	AverageRF	% RSD	5.3		15.0	0.514		0.01
Styrene	TRG	AverageRF	% RSD	5.2		15.0	0.867		0.01
* Bromoform	TRG	AverageRF	% RSD	20.6		15.0	0.197		0.10
Isopropylbenzene	TRG	AverageRF	% RSD	7.6		15.0	1.415		0.01
* 1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	5.1		15.0	1.141		0.30
Bromobenzene	TRG	AverageRF	% RSD	1.6		15.0	1.409		0.01
1,2,3-Trichloropropane	TRG	AverageRF	% RSD	3.3		15.0	0.441		0.01
n-Propylbenzene	TRG	AverageRF	% RSD	11.5		15.0	1.384		0.01
2-Chlorotoluene	TRG	AverageRF	% RSD	4.2		15.0	1.179		0.01
1,3,5-Trimethylbenzene	TRG	AverageRF	% RSD	9.7		15.0	3.719		0.01
4-Chlorotoluene	TRG	AverageRF	% RSD	5.9		15.0	1.127		0.01
tert-Butylbenzene	TRG	AverageRF	% RSD	7.5		15.0	3.587		0.01
1,2,4-Trimethylbenzene	TRG	AverageRF	% RSD	6.6		15.0	3.473		0.01
sec-Butylbenzene	TRG	AverageRF	% RSD	8.6		15.0	4.625		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	0.9		15.0	1.713		0.01
4-Isopropyltoluene	TRG	AverageRF	% RSD	7.1		15.0	3.671		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	1.0		15.0	1.679		0.01
n-Butylbenzene	TRG	AverageRF	% RSD	4.6		15.0	2.782		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	4.0		15.0	1.449		0.01
1,2-Dibromo-3-chloropropane (DBCP)	TRG	AverageRF	% RSD	22.0		15.0	0.145		0.01
1,2,4-Trichlorobenzene	TRG	AverageRF	% RSD	7.0		15.0	0.968		0.01
Hexachlorobutadiene	TRG	AverageRF	% RSD	4.3		15.0	0.585		0.01
Naphthalene	TRG	AverageRF	% RSD	15.3		15.0	2.194		0.01
1,2,3-Trichlorobenzene	TRG	AverageRF	% RSD	7.6		15.0	0.941		0.01
Dibromofluoromethane	SUR	AverageRF	% RSD	5.2		15.0	0.276		0.01
1,2-Dichloroethane-d4	SUR	AverageRF	% RSD	5.9		15.0	0.550		0.01
Toluene-d8	SUR	AverageRF	% RSD	4.6		15.0	1.327		0.01
4-Bromofluorobenzene	SUR	AverageRF	% RSD	2.6		15.0	1.409		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064372.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 18-OCT-2006 15:05
Operator : Reggie Inst ID: MSU.i
Smp Info : VSTD005;VSTD005
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\8260s5.m
Meth Date : 26-Oct-2006 09:00 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 15:05 Cal File: U064372.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * UF*Vo*Vt/(Ws*Va*((100-M)/100)) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Vo	10.000	Total MeOH
Vt	5.000	Volume Sample Purged
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)	
*	1 Fluorobenzene	96	6.435	6.435	(1.000)	1797239	50.0000		(a)
*	2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1255630	50.0000		(a)
*	3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	301454	50.0000		(a)
*	4 tert-Butanol-d10	65	3.215	3.215	(1.000)	686469	600.000		
$	5 Dibromofluoromethane	113	5.564	5.564	(0.865)	46918	5.00000	4.72	(a)
$	6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	64142	5.00000	4.64	(a)
$	7 Toluene-d8	98	8.450	8.450	(0.827)	174323	5.00000	5.23	
$	8 Bromofluorobenzene	174	11.680	11.680	(0.892)	43353	5.00000	5.10	
	9 Dichlorodifluoromethane	85	1.250	1.250	(0.194)	20958	5.00000	5.27	
	10 Chloromethane	50	1.412	1.412	(0.220)	41826	5.00000	5.12	
	11 Vinyl chloride	62	1.483	1.483	(0.231)	31871	5.00000	5.01	
	12 Bromomethane	94	1.746	1.746	(0.271)	6514	5.00000	4.58	(a)
	13 Chloroethane	64	1.827	1.827	(0.284)	11753	5.00000	4.92	(aQ)
	14 Trichlorofluoromethane	101	2.050	2.050	(0.319)	41037	5.00000	5.25	
	15 Dichlorotrifluoroethane	83	2.415	2.415	(0.375)	34620	5.00000	4.88	(a)
	16 1,1,2-Trichlorotrifluoroethane	101	2.546	2.546	(0.396)	24200	5.00000	4.76	(a)
	17 Acrolein	56	2.475	2.475	(0.385)	26686	50.0000	37.30	(aQ)
	18 1,1-Dichloroethene	96	2.546	2.546	(0.396)	19958	5.00000	4.87	(aQ)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	19 Acetone	43	2.637	2.637	(0.410)	99517	25.0000	25.50
	20 Iodomethane	142	2.708	2.708	(0.421)	21544	5.00000	4.60(a)
	21 Carbon disulfide	76	2.759	2.759	(0.429)	64641	5.00000	4.92(a)
	22 2-Propanol	45	2.830	2.830	(0.440)	92933	125.000	121.4
	23 Methylene chloride	84	3.093	3.093	(0.481)	26542	5.00000	5.80(Q)
	24 tert-Butanol	59	3.316	3.316	(1.031)	45385	50.0000	52.36(Q)
	25 Acrylonitrile	53	3.427	3.437	(0.533)	212351	50.0000	43.99(a)
	26 trans-1,2-Dichloroethene	96	3.417	3.417	(0.531)	28013	5.00000	4.14(aQ)
	27 tert-Butylmethylether	73	3.437	3.448	(0.534)	102625	5.00000	4.62(aQ)
	28 Isopropylether	45	4.156	4.156	(0.646)	309543	5.00000	4.87(a)
	29 1,1-Dichloroethane	63	4.015	4.015	(0.624)	96115	5.00000	4.79(a)
	30 Vinyl acetate	43	4.146	4.146	(0.644)	262410	5.00000	4.62(a)
	31 tert-Butylethylether	59	4.693	4.693	(0.729)	200240	5.00000	4.68(a)
	32 2,2-Dichloropropane	77	4.845	4.855	(0.753)	47080	5.00000	4.17(aQ)
	33 cis-1,2-Dichloroethene	96	4.875	4.875	(0.758)	45949	5.00000	4.79(aQ)
M	34 1,2-Dichloroethene (total)	96				73962	5.00000	8.93
	35 2-Butanone	43	4.946	4.946	(0.769)	215711	25.0000	23.70(a)
	36 Bromochloromethane	128	5.210	5.210	(0.810)	22199	5.00000	4.80(aQ)
	37 Chloroform	83	5.341	5.341	(0.830)	76499	5.00000	4.80(a)
	38 1,1,1-Trichloroethane	97	5.544	5.544	(0.862)	58327	5.00000	4.56(a)
	39 1,1-Dichloropropene	75	5.777	5.777	(0.898)	55220	5.00000	4.90(a)
	40 Carbon tetrachloride	119	5.756	5.756	(0.895)	38797	5.00000	3.91(a)
	41 Benzene	78	6.050	6.050	(0.940)	180878	5.00000	5.03(Q)
	42 tert-Amylmethylether	73	6.242	6.242	(0.970)	125204	5.00000	4.61(aQ)
	43 1,2-Dichloroethane	62	6.101	6.101	(0.948)	74966	5.00000	4.69(a)
	44 Trichloroethene	95	6.911	6.911	(1.074)	48286	5.00000	4.86(a)
	45 1,2-Dichloropropane	63	7.194	7.204	(1.118)	58472	5.00000	4.83(aQ)
	46 1,4-Dioxane	88	7.417	7.417	(1.153)	3641	125.000	72.48(aQ)
	47 Dibromomethane	93	7.346	7.346	(1.142)	27030	5.00000	4.67(a)
	48 Bromodichloromethane	83	7.569	7.569	(1.176)	52133	5.00000	4.36(a)
	49 2-Chloroethylvinyl ether	63	7.984	7.994	(1.241)	230349	50.0000	50.39
	50 cis-1,3-Dichloropropene	75	8.136	8.136	(1.264)	61870	5.00000	4.35(a)
	51 4-Methyl-2-pentanone	58	8.359	8.359	(1.299)	132635	25.0000	23.01(aQ)
	52 Toluene	92	8.531	8.531	(0.835)	122378	5.00000	5.28
	53 trans-1,3-Dichloropropene	75	8.845	8.845	(0.865)	49869	5.00000	3.79(a)
	54 1,1,2-Trichloroethane	83	9.057	9.057	(0.886)	30956	5.00000	4.53(a)
	55 Tetrachloroethene	166	9.189	9.189	(0.899)	54059	5.00000	4.99(a)
	56 1,3-Dichloropropane	76	9.260	9.260	(0.906)	70965	5.00000	4.71(aQ)
	57 2-Hexanone	43	9.392	9.402	(0.919)	280767	25.0000	22.38(a)
	58 Dibromochloromethane	129	9.523	9.533	(0.932)	35362	5.00000	3.75(a)
	59 1,2-Dibromoethane	107	9.645	9.645	(0.944)	39885	5.00000	4.36(a)
	60 1-Chlorohexane	91	10.252	10.263	(1.003)	68015	5.00000	5.47(Q)
	61 Chlorobenzene	112	10.252	10.252	(1.003)	126894	5.00000	5.38
	62 1,1,1,2-Tetrachloroethane	131	10.364	10.374	(1.014)	36426	5.00000	3.86(a)
	63 Ethylbenzene	91	10.404	10.404	(1.018)	208607	5.00000	5.40
	64 m-,p-Xylene	106	10.546	10.556	(1.032)	139581	10.0000	10.77
	65 o-Xylene	106	11.032	11.032	(1.079)	66112	5.00000	5.18
M	66 Xylene (total)	106				205693	15.0000	15.94
	67 Styrene	104	11.052	11.062	(1.081)	114291	5.00000	5.25
	68 Bromoform	173	11.275	11.275	(1.103)	16003	5.00000	3.24(a)
	69 Isopropylbenzene	105	11.488	11.498	(1.124)	192980	5.00000	5.43
	70 1,1,2,2-Tetrachloroethane	83	11.883	11.893	(0.907)	31696	5.00000	4.61(a)
	71 Bromobenzene	156	11.842	11.842	(0.904)	42785	5.00000	5.04
	72 1,2,3-Trichloropropane	110	11.923	11.923	(0.910)	12945	5.00000	4.87(aQ)

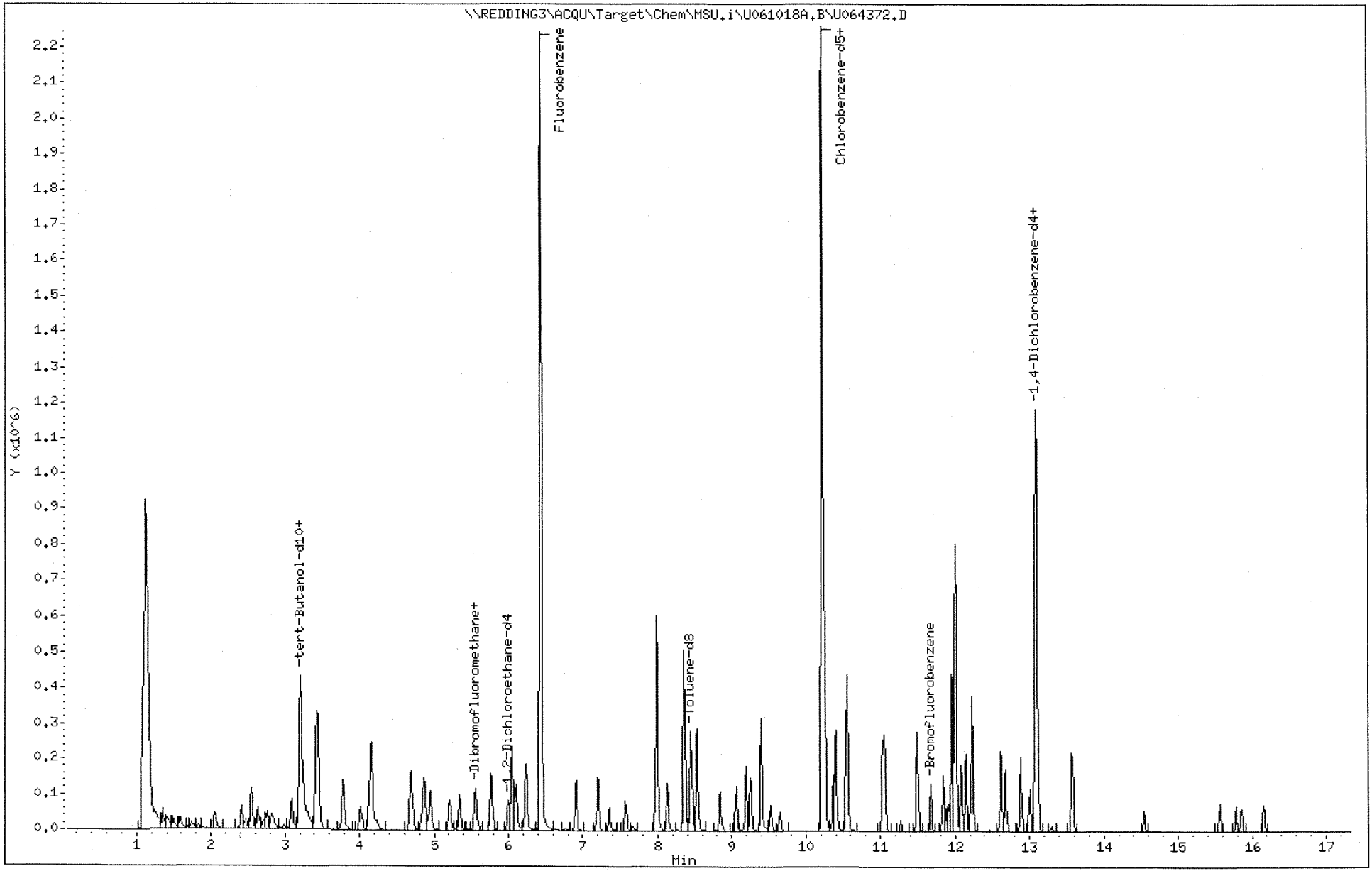
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
73	trans-1,4-Dichloro-2-butene	53	11.954	11.964	(0.913)	148918	50.0000	45.40(AQ)
74	n-Propylbenzene	120	12.004	12.004	(0.917)	48544	5.00000	5.82
75	5-Methyl-3-heptanone	57	12.004	12.014	(0.917)	218959	25.0000	26.78(Q)
76	2-Chlorotoluene	126	12.085	12.095	(0.923)	37564	5.00000	5.28(Q)
77	1,3,5-Trimethylbenzene	105	12.227	12.227	(0.934)	123474	5.00000	5.51
78	4-Chlorotoluene	126	12.227	12.237	(0.934)	36442	5.00000	5.36
79	tert-Butylbenzene	119	12.622	12.622	(0.964)	117991	5.00000	5.46
80	1,2,4-Trimethylbenzene	105	12.683	12.683	(0.968)	110986	5.00000	5.30
81	sec-Butylbenzene	105	12.885	12.895	(0.984)	153980	5.00000	5.52
82	1,3-Dichlorobenzene	146	13.007	13.007	(0.993)	52286	5.00000	5.06
83	p-Isopropyltoluene	119	13.078	13.078	(0.998)	119611	5.00000	5.40
84	1,4-Dichlorobenzene	146	13.118	13.118	(1.002)	51378	5.00000	5.07
85	n-Butylbenzene	91	13.584	13.584	(1.037)	87809	5.00000	5.24
86	1,2-Dichlorobenzene	146	13.574	13.574	(1.036)	41345	5.00000	4.73(a)
87	1,2-Dibromo-3-chloropropane	75	14.546	14.546	(1.111)	11756	20.0000	13.43(aQ)
88	1,2,4-Trichlorobenzene	180	15.559	15.559	(1.188)	26624	5.00000	4.56(a)
89	Hexachlorobutadiene	225	15.781	15.781	(1.205)	16630	5.00000	4.71(a)
90	Naphthalene	128	15.862	15.862	(1.211)	54039	5.00000	4.08(a)
91	1,2,3-Trichlorobenzene	180	16.156	16.156	(1.233)	25990	5.00000	4.58(a)
M 92	Total Chlorobenzenes	100				436256	5.00000	37.53

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064372.D
Date : 18-OCT-2006 15:05
Client ID: VSTD005
Sample Info: VSTD005;VSTD005
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: Reggie
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064373.D
Lab Smp Id: VSTD025 Client Smp ID: VSTD025
Inj Date : 18-OCT-2006 15:29
Operator : Reggie Inst ID: MSU.i
Smp Info : VSTD025;VSTD025
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\8260s5.m
Meth Date : 26-Oct-2006 09:00 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 15:29 Cal File: U064373.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * UF*Vo*Vt/(Ws*Va*((100-M)/100)) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Vo	10.000	Total MeOH
Vt	5.000	Volume Sample Purged
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)	
*	1 Fluorobenzene	96	6.435	6.435	(1.000)	1769204	50.0000		(a)
*	2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1208506	50.0000		(a)
*	3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	299501	50.0000		(a)
*	4 tert-Butanol-d10	65	3.215	3.215	(1.000)	722340	600.000		
$	5 Dibromofluoromethane	113	5.564	5.564	(0.865)	248275	25.0000	25.40	
$	6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	330778	25.0000	24.89	
$	7 Toluene-d8	98	8.450	8.450	(0.827)	842850	25.0000	26.28	
$	8 Bromofluorobenzene	174	11.680	11.680	(0.892)	214328	25.0000	25.40	
	9 Dichlorodifluoromethane	85	1.250	1.250	(0.194)	99880	25.0000	25.52	
	10 Chloromethane	50	1.412	1.412	(0.220)	199886	25.0000	24.85	
	11 Vinyl chloride	62	1.483	1.483	(0.231)	156964	25.0000	25.08	
	12 Bromomethane	94	1.746	1.746	(0.271)	35926	25.0000	25.67	
	13 Chloroethane	64	1.827	1.827	(0.284)	61591	25.0000	26.20(Q)	
	14 Trichlorofluoromethane	101	2.050	2.050	(0.319)	200438	25.0000	26.06	
	15 Dichlorotrifluoroethane	83	2.415	2.415	(0.375)	173648	25.0000	24.87	
	16 1,1,2-Trichlorotrifluoroethane	101	2.546	2.546	(0.396)	124553	25.0000	24.91	
	17 Acrolein	56	2.476	2.475	(0.385)	152228	250.000	216.2(Q)	
	18 1,1-Dichloroethene	96	2.546	2.546	(0.396)	102632	25.0000	25.46(Q)	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
19	Acetone	43	2.638	2.637	(0.410)	459485	125.000	119.6
20	Iodomethane	142	2.708	2.708	(0.421)	117784	25.0000	25.56
21	Carbon disulfide	76	2.759	2.759	(0.429)	327143	25.0000	25.30
22	2-Propanol	45	2.830	2.830	(0.440)	444875	625.000	590.4
23	Methylene chloride	84	3.093	3.093	(0.481)	111570	25.0000	24.78(Q)
24	tert-Butanol	59	3.316	3.316	(1.031)	216976	250.000	237.9
25	Acrylonitrile	53	3.427	3.437	(0.533)	1184122	250.000	249.2
26	trans-1,2-Dichloroethene	96	3.417	3.417	(0.531)	173812	25.0000	26.08(Q)
27	tert-Butylmethylether	73	3.438	3.448	(0.534)	553176	25.0000	25.28(Q)
28	Isopropylether	45	4.156	4.156	(0.646)	1566030	25.0000	25.04
29	1,1-Dichloroethane	63	4.015	4.015	(0.624)	487222	25.0000	24.68
30	Vinyl acetate	43	4.146	4.146	(0.644)	1361483	25.0000	24.38
31	tert-Butylethylether	59	4.693	4.693	(0.729)	1024401	25.0000	24.30
32	2,2-Dichloropropane	77	4.855	4.855	(0.755)	256438	25.0000	23.08(Q)
33	cis-1,2-Dichloroethene	96	4.875	4.875	(0.758)	236853	25.0000	25.10(Q)
M 34	1,2-Dichloroethene (total)	96				410665	25.0000	51.17
35	2-Butanone	43	4.946	4.946	(0.769)	1066910	125.000	119.0
36	Bromochloromethane	128	5.210	5.210	(0.810)	114990	25.0000	25.24(Q)
37	Chloroform	83	5.341	5.341	(0.830)	390878	25.0000	24.89
38	1,1,1-Trichloroethane	97	5.544	5.544	(0.862)	305199	25.0000	24.23
39	1,1-Dichloropropene	75	5.777	5.777	(0.898)	280557	25.0000	25.31
40	Carbon tetrachloride	119	5.756	5.756	(0.895)	228355	25.0000	23.39
41	Benzene	78	6.050	6.050	(0.940)	901463	25.0000	25.46(Q)
42	tert-Amylmethylether	73	6.242	6.242	(0.970)	657696	25.0000	24.58(Q)
43	1,2-Dichloroethane	62	6.101	6.101	(0.948)	388134	25.0000	24.68
44	Trichloroethene	95	6.911	6.911	(1.074)	242826	25.0000	24.84
45	1,2-Dichloropropane	63	7.204	7.204	(1.120)	294374	25.0000	24.71(Q)
46	1,4-Dioxane	88	7.417	7.417	(1.153)	29419	625.000	594.9(Q)
47	Dibromomethane	93	7.346	7.346	(1.142)	139353	25.0000	24.44
48	Bromodichloromethane	83	7.569	7.569	(1.176)	286553	25.0000	24.34
49	2-Chloroethylvinyl ether	63	7.984	7.994	(1.241)	1166778	250.000	259.3
50	cis-1,3-Dichloropropene	75	8.136	8.136	(1.264)	351700	25.0000	25.10
51	4-Methyl-2-pentanone	58	8.359	8.359	(1.299)	704057	125.000	124.1(Q)
52	Toluene	92	8.531	8.531	(0.835)	570834	25.0000	25.61
53	trans-1,3-Dichloropropene	75	8.845	8.845	(0.865)	312487	25.0000	24.67
54	1,1,2-Trichloroethane	83	9.058	9.057	(0.886)	163503	25.0000	24.85
55	Tetrachloroethene	166	9.189	9.189	(0.899)	270557	25.0000	25.97
56	1,3-Dichloropropane	76	9.250	9.260	(0.905)	363160	25.0000	25.07(Q)
57	2-Hexanone	43	9.392	9.402	(0.919)	1528477	125.000	126.6
58	Dibromochloromethane	129	9.523	9.533	(0.932)	221608	25.0000	24.43
59	1,2-Dibromoethane	107	9.645	9.645	(0.944)	220697	25.0000	25.07
60	1-Chlorohexane	91	10.252	10.263	(1.003)	312726	25.0000	26.13(Q)
61	Chlorobenzene	112	10.252	10.252	(1.003)	587925	25.0000	25.92
62	1,1,1,2-Tetrachloroethane	131	10.364	10.374	(1.014)	225047	25.0000	24.78
63	Ethylbenzene	91	10.404	10.404	(1.018)	957698	25.0000	25.74
64	m-,p-Xylene	106	10.546	10.556	(1.032)	646319	50.0000	51.80
65	o-Xylene	106	11.032	11.032	(1.079)	318043	25.0000	25.88
M 66	Xylene (total)	106				964362	75.0000	77.68
67	Styrene	104	11.052	11.062	(1.081)	549095	25.0000	26.20
68	Bromoform	173	11.275	11.275	(1.103)	117126	25.0000	24.61
69	Isopropylbenzene	105	11.488	11.498	(1.124)	904482	25.0000	26.45
70	1,1,2,2-Tetrachloroethane	83	11.893	11.893	(0.908)	177386	25.0000	25.95
71	Bromobenzene	156	11.842	11.842	(0.904)	212155	25.0000	25.14
72	1,2,3-Trichloropropane	110	11.923	11.923	(0.910)	66925	25.0000	25.33(Q)

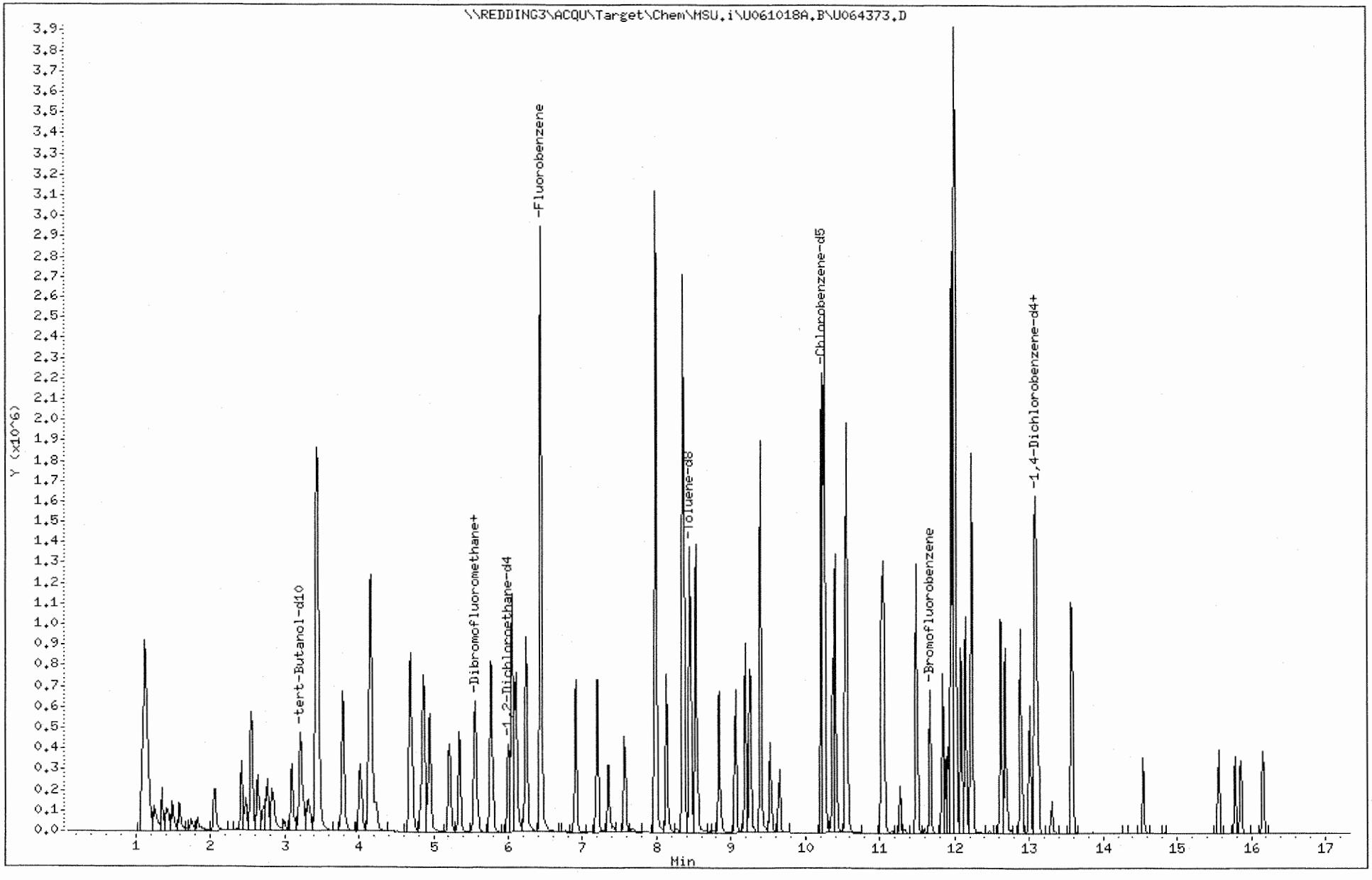
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
73	trans-1,4-Dichloro-2-butene	53	11.964	11.964	(0.913)	887960	250.000	272.5(AQ)
74	n-Propylbenzene	120	12.004	12.004	(0.917)	218538	25.0000	26.35
75	5-Methyl-3-heptanone	57	12.004	12.014	(0.917)	1106154	125.000	136.2
76	2-Chlorotoluene	126	12.085	12.095	(0.923)	179239	25.0000	25.38(Q)
77	1,3,5-Trimethylbenzene	105	12.227	12.227	(0.934)	600111	25.0000	26.94
78	4-Chlorotoluene	126	12.227	12.237	(0.934)	175005	25.0000	25.94(Q)
79	tert-Butylbenzene	119	12.622	12.622	(0.964)	565230	25.0000	26.30
80	1,2,4-Trimethylbenzene	105	12.683	12.683	(0.968)	554160	25.0000	26.64
81	sec-Butylbenzene	105	12.885	12.895	(0.984)	735092	25.0000	26.53
82	1,3-Dichlorobenzene	146	13.007	13.007	(0.993)	258056	25.0000	25.14
83	p-Isopropyltoluene	119	13.078	13.078	(0.998)	581957	25.0000	26.46
84	1,4-Dichlorobenzene	146	13.118	13.118	(1.002)	250469	25.0000	24.90
85	n-Butylbenzene	91	13.584	13.584	(1.037)	436314	25.0000	26.19
86	1,2-Dichlorobenzene	146	13.574	13.574	(1.036)	211431	25.0000	24.36
87	1,2-Dibromo-3-chloropropane	75	14.546	14.546	(1.111)	77181	100.000	88.77(Q)
88	1,2,4-Trichlorobenzene	180	15.559	15.559	(1.188)	137467	25.0000	23.71
89	Hexachlorobutadiene	225	15.781	15.781	(1.205)	85433	25.0000	24.36
90	Naphthalene	128	15.862	15.862	(1.211)	286659	25.0000	21.81
91	1,2,3-Trichlorobenzene	180	16.156	16.156	(1.233)	132245	25.0000	23.45
M 92	Total Chlorobenzenes	100				2241780	25.0000	197.2

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064373.D
Date : 18-OCT-2006 15:29
Client ID: VSTD025
Sample Info: VSTD025;VSTD025
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: Reggie
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064374.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 18-OCT-2006 15:53
Operator : Reggie Inst ID: MSU.i
Smp Info : VSTD050;VSTD050
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\8260s5.m
Meth Date : 26-Oct-2006 09:00 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 15:53 Cal File: U064374.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * UF*Vo*Vt/(Ws*Va*((100-M)/100)) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Vo	10.000	Total MeOH
Vt	5.000	Volume Sample Purged
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)	
* 1 Fluorobenzene	96	6.435	6.435	(1.000)	1701302	50.0000		(a)
* 2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1142801	50.0000		(a)
* 3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	268574	50.0000		(a)
* 4 tert-Butanol-d10	65	3.215	3.215	(1.000)	811088	600.000		
$ 5 Dibromofluoromethane	113	5.564	5.564	(0.865)	450512	50.0000	47.93	
$ 6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	609391	50.0000	48.49	
$ 7 Toluene-d8	98	8.450	8.450	(0.827)	1443644	50.0000	47.60	
$ 8 Bromofluorobenzene	174	11.680	11.680	(0.892)	363407	50.0000	48.02	
9 Dichlorodifluoromethane	85	1.250	1.250	(0.194)	188960	50.0000	50.21	
10 Chloromethane	50	1.412	1.412	(0.220)	385531	50.0000	49.84	
11 Vinyl chloride	62	1.483	1.483	(0.231)	308008	50.0000	51.18	
12 Bromomethane	94	1.746	1.746	(0.271)	70381	50.0000	52.29	
13 Chloroethane	64	1.827	1.827	(0.284)	116747	50.0000	51.64	(Q)
14 Trichlorofluoromethane	101	2.050	2.050	(0.319)	375617	50.0000	50.79	
15 Dichlorotrifluoroethane	83	2.415	2.415	(0.375)	337148	50.0000	50.22	
16 1,1,2-Trichlorotrifluoroethane	101	2.546	2.546	(0.396)	239591	50.0000	49.84	
17 Acrolein	56	2.475	2.475	(0.385)	354852	500.000	524.0	(Q)
18 1,1-Dichloroethene	96	2.546	2.546	(0.396)	196753	50.0000	50.77	(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
19	Acetone	43	2.637	2.637	(0.410)	938169	250.000	254.0
20	Iodomethane	142	2.708	2.708	(0.421)	228259	50.0000	51.52
21	Carbon disulfide	76	2.759	2.759	(0.429)	626916	50.0000	50.42
22	2-Propanol	45	2.830	2.830	(0.440)	952786	1250.00	1315
23	Methylene chloride	84	3.093	3.093	(0.481)	208636	50.0000	48.19(Q)
24	tert-Butanol	59	3.316	3.316	(1.031)	483126	500.000	471.7
25	Acrylonitrile	53	3.427	3.437	(0.533)	2430580	500.000	531.9
26	trans-1,2-Dichloroethene	96	3.417	3.417	(0.531)	351157	50.0000	54.78(Q)
27	tert-Butylmethylether	73	3.437	3.448	(0.534)	1080944	50.0000	51.37(Q)
28	Isopropylether	45	4.156	4.156	(0.646)	2996103	50.0000	49.83
29	1,1-Dichloroethane	63	4.015	4.015	(0.624)	939908	50.0000	49.51
30	Vinyl acetate	43	4.146	4.146	(0.644)	2675023	50.0000	49.81
31	tert-Butylethylether	59	4.693	4.693	(0.729)	2025758	50.0000	49.96
32	2,2-Dichloropropane	77	4.855	4.855	(0.755)	543094	50.0000	50.83(Q)
33	cis-1,2-Dichloroethene	96	4.875	4.875	(0.758)	448201	50.0000	49.39(Q)
M 34	1,2-Dichloroethene (total)	96				799358	50.0000	104.2
35	2-Butanone	43	4.946	4.946	(0.769)	2214620	250.000	257.0
36	Bromochloromethane	128	5.210	5.210	(0.810)	219096	50.0000	50.01(Q)
37	Chloroform	83	5.341	5.341	(0.830)	750735	50.0000	49.71
38	1,1,1-Trichloroethane	97	5.544	5.544	(0.862)	607669	50.0000	50.18
39	1,1-Dichloropropene	75	5.777	5.777	(0.898)	528257	50.0000	49.57
40	Carbon tetrachloride	119	5.756	5.756	(0.895)	488315	50.0000	52.02
41	Benzene	78	6.050	6.050	(0.940)	1695191	50.0000	49.79(Q)
42	tert-Amylmethylether	73	6.242	6.242	(0.970)	1301296	50.0000	50.58(Q)
43	1,2-Dichloroethane	62	6.101	6.101	(0.948)	766199	50.0000	50.66
44	Trichloroethene	95	6.911	6.911	(1.074)	473576	50.0000	50.38
45	1,2-Dichloropropane	63	7.204	7.204	(1.120)	573102	50.0000	50.02
46	1,4-Dioxane	88	7.407	7.417	(1.151)	66765	1250.00	1404(Q)
47	Dibromomethane	93	7.346	7.346	(1.142)	274199	50.0000	50.01
48	Bromodichloromethane	83	7.569	7.569	(1.176)	575831	50.0000	50.87
49	2-Chloroethylvinyl ether	63	7.984	7.994	(1.241)	2196488	500.000	507.6
50	cis-1,3-Dichloropropene	75	8.136	8.136	(1.264)	693347	50.0000	51.46
51	4-Methyl-2-pentanone	58	8.359	8.359	(1.299)	1421133	250.000	260.4(Q)
52	Toluene	92	8.531	8.531	(0.835)	1051025	50.0000	49.87
53	trans-1,3-Dichloropropene	75	8.845	8.845	(0.865)	637641	50.0000	53.24
54	1,1,2-Trichloroethane	83	9.058	9.057	(0.886)	321759	50.0000	51.72
55	Tetrachloroethene	166	9.189	9.189	(0.899)	494688	50.0000	50.21
56	1,3-Dichloropropane	76	9.260	9.260	(0.906)	697229	50.0000	50.90(Q)
57	2-Hexanone	43	9.392	9.402	(0.919)	3095389	250.000	271.0
58	Dibromochloromethane	129	9.523	9.533	(0.932)	458516	50.0000	53.45
59	1,2-Dibromoethane	107	9.645	9.645	(0.944)	434162	50.0000	52.16
60	1-Chlorohexane	91	10.252	10.263	(1.003)	562258	50.0000	49.68(Q)
61	Chlorobenzene	112	10.252	10.252	(1.003)	1066783	50.0000	49.73
62	1,1,1,2-Tetrachloroethane	131	10.364	10.374	(1.014)	460943	50.0000	53.67
63	Ethylbenzene	91	10.404	10.404	(1.018)	1742160	50.0000	49.52
64	m-,p-Xylene	106	10.556	10.556	(1.033)	1173442	100.000	99.45
65	o-Xylene	106	11.032	11.032	(1.079)	582395	50.0000	50.11
M 66	Xylene (total)	106				1755837	150.000	149.6
67	Styrene	104	11.052	11.062	(1.081)	985162	50.0000	49.71
68	Bromoform	173	11.275	11.275	(1.103)	254980	50.0000	56.66
69	Isopropylbenzene	105	11.488	11.498	(1.124)	1603583	50.0000	49.59
70	1,1,2,2-Tetrachloroethane	83	11.893	11.893	(0.908)	322352	50.0000	52.59
71	Bromobenzene	156	11.842	11.842	(0.904)	381761	50.0000	50.45
72	1,2,3-Trichloropropane	110	11.923	11.923	(0.910)	124190	50.0000	52.42(Q)

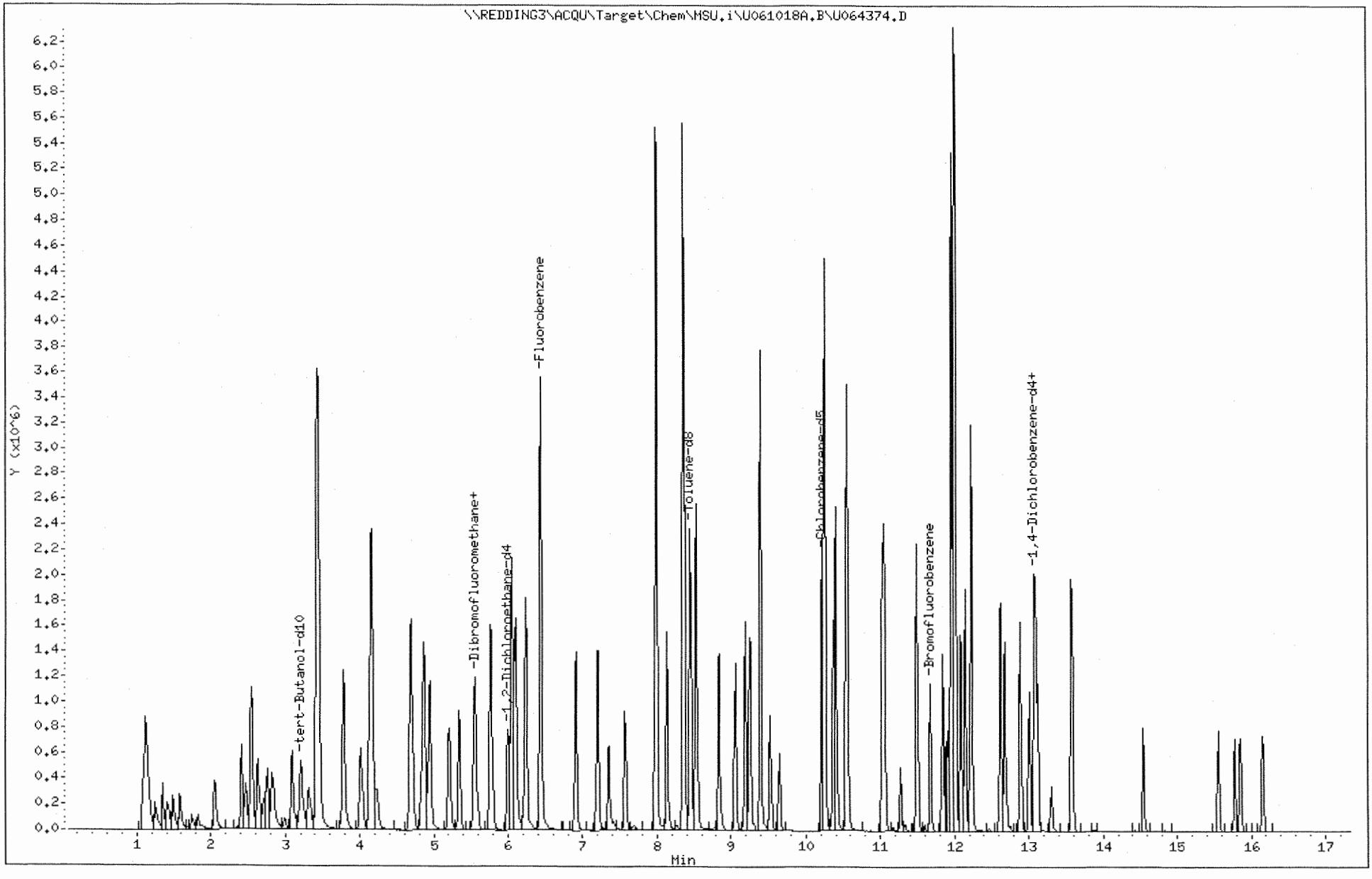
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
73	trans-1,4-Dichloro-2-butene	53	11.964	11.964	(0.913)	1626728	500.000	556.7(AQ)
74	n-Propylbenzene	120	12.004	12.004	(0.917)	367414	50.0000	49.41
75	5-Methyl-3-heptanone	57	12.014	12.014	(0.917)	1900911	250.000	261.0(Q)
76	2-Chlorotoluene	126	12.095	12.095	(0.923)	317154	50.0000	50.07(Q)
77	1,3,5-Trimethylbenzene	105	12.227	12.227	(0.934)	1009469	50.0000	50.53
78	4-Chlorotoluene	126	12.227	12.237	(0.934)	302386	50.0000	49.97(Q)
79	tert-Butylbenzene	119	12.622	12.622	(0.964)	953438	50.0000	49.48
80	1,2,4-Trimethylbenzene	105	12.683	12.683	(0.968)	933172	50.0000	50.02
81	sec-Butylbenzene	105	12.885	12.895	(0.984)	1235501	50.0000	49.73
82	1,3-Dichlorobenzene	146	13.007	13.007	(0.993)	457208	50.0000	49.68
83	p-Isopropyltoluene	119	13.078	13.078	(0.998)	981493	50.0000	49.77
84	1,4-Dichlorobenzene	146	13.118	13.118	(1.002)	450928	50.0000	49.98
85	n-Butylbenzene	91	13.584	13.584	(1.037)	737683	50.0000	49.37
86	1,2-Dichlorobenzene	146	13.574	13.574	(1.036)	391416	50.0000	50.29
87	1,2-Dibromo-3-chloropropane	75	14.546	14.546	(1.111)	168182	200.000	215.7(Q)
88	1,2,4-Trichlorobenzene	180	15.559	15.559	(1.188)	260525	50.0000	50.12
89	Hexachlorobutadiene	225	15.781	15.781	(1.205)	157708	50.0000	50.14
90	Naphthalene	128	15.862	15.862	(1.211)	598182	50.0000	50.76
91	1,2,3-Trichlorobenzene	180	16.166	16.156	(1.234)	251128	50.0000	49.66
M 92	Total Chlorobenzenes	100				4208976	50.0000	404.2

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064374.D
Date : 18-OCT-2006 15:53
Client ID: VSTD050
Sample Info: VSTD050;VSTD050
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: Reggie
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064375.D
Lab Smp Id: VSTD075 Client Smp ID: VSTD075
Inj Date : 18-OCT-2006 16:17
Operator : Reggie Inst ID: MSU.i
Smp Info : VSTD075;VSTD075
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\8260s5.m
Meth Date : 26-Oct-2006 09:00 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 16:17 Cal File: U064375.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * UF*Vo*Vt/(Ws*Va*((100-M)/100)) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Vo	10.000	Total MeOH
Vt	5.000	Volume Sample Purged
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)	
* 1 Fluorobenzene	96	6.435	6.435	(1.000)	1655266	50.0000		(a)
* 2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1130345	50.0000		(a)
* 3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	260701	50.0000		(a)
* 4 tert-Butanol-d10	65	3.225	3.215	(1.000)	742176	600.000		
$ 5 Dibromofluoromethane	113	5.564	5.564	(0.865)	688929	75.0000	75.34	
$ 6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	950023	75.0000	76.43	
$ 7 Toluene-d8	98	8.450	8.450	(0.827)	2176776	75.0000	72.57	
$ 8 Bromofluorobenzene	174	11.680	11.680	(0.892)	544233	75.0000	74.08	
9 Dichlorodifluoromethane	85	1.250	1.250	(0.194)	254709	75.0000	69.56	
10 Chloromethane	50	1.412	1.412	(0.220)	547922	75.0000	72.81	
11 Vinyl chloride	62	1.483	1.483	(0.231)	424734	75.0000	72.54	
12 Bromomethane	94	1.746	1.746	(0.271)	94301	75.0000	72.01	
13 Chloroethane	64	1.827	1.827	(0.284)	151682	75.0000	68.96(Q)	
14 Trichlorofluoromethane	101	2.050	2.050	(0.319)	499896	75.0000	69.47	
15 Dichlorotrifluoroethane	83	2.415	2.415	(0.375)	493175	75.0000	75.50	
16 1,1,2-Trichlorotrifluoroethane	101	2.546	2.546	(0.396)	357544	75.0000	76.44	
17 Acrolein	56	2.475	2.475	(0.385)	565246	750.000	858.0(Q)	
18 1,1-Dichloroethene	96	2.546	2.546	(0.396)	282976	75.0000	75.05(Q)	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	19 Acetone	43	2.637	2.637	(0.410)	1358783	375.000	378.0
	20 Iodomethane	142	2.698	2.708	(0.419)	321353	75.0000	74.55
	21 Carbon disulfide	76	2.759	2.759	(0.429)	899206	75.0000	74.33
	22 2-Propanol	45	2.840	2.830	(0.441)	1301868	1875.00	1846
	23 Methylene chloride	84	3.093	3.093	(0.481)	295931	75.0000	70.25(Q)
	24 tert-Butanol	59	3.326	3.316	(1.031)	763764	750.000	815.0
	25 Acrylonitrile	53	3.437	3.437	(0.534)	3485506	750.000	784.0
	26 trans-1,2-Dichloroethene	96	3.417	3.417	(0.531)	482490	75.0000	77.37(Q)
	27 tert-Butylmethylether	73	3.448	3.448	(0.536)	1565669	75.0000	76.47(Q)
	28 Isopropylether	45	4.156	4.156	(0.646)	4433702	75.0000	75.79
	29 1,1-Dichloroethane	63	4.015	4.015	(0.624)	1422784	75.0000	77.04
	30 Vinyl acetate	43	4.146	4.146	(0.644)	3995432	75.0000	76.57
	31 tert-Butylethylether	59	4.693	4.693	(0.729)	3066786	75.0000	77.74
	32 2,2-Dichloropropane	77	4.855	4.855	(0.755)	852103	75.0000	81.96(Q)
	33 cis-1,2-Dichloroethene	96	4.875	4.875	(0.758)	676742	75.0000	76.65(Q)
M	34 1,2-Dichloroethene (total)	96				1159232	75.0000	154.0
	35 2-Butanone	43	4.946	4.946	(0.769)	3252723	375.000	388.0
	36 Bromochloromethane	128	5.209	5.210	(0.810)	322313	75.0000	75.62(Q)
	37 Chloroform	83	5.341	5.341	(0.830)	1122095	75.0000	76.37
	38 1,1,1-Trichloroethane	97	5.544	5.544	(0.862)	919163	75.0000	78.01
	39 1,1-Dichloropropene	75	5.777	5.777	(0.898)	781749	75.0000	75.39
	40 Carbon tetrachloride	119	5.756	5.756	(0.895)	745118	75.0000	81.59
	41 Benzene	78	6.050	6.050	(0.940)	2478763	75.0000	74.82(Q)
	42 tert-Amylmethylether	73	6.242	6.242	(0.970)	1954281	75.0000	78.08(Q)
	43 1,2-Dichloroethane	62	6.101	6.101	(0.948)	1131295	75.0000	76.87
	44 Trichloroethene	95	6.911	6.911	(1.074)	695441	75.0000	76.04
	45 1,2-Dichloropropane	63	7.204	7.204	(1.120)	847530	75.0000	76.03
	46 1,4-Dioxane	88	7.417	7.417	(1.153)	100046	1875.00	2162(Q)
	47 Dibromomethane	93	7.346	7.346	(1.142)	413916	75.0000	77.59
	48 Bromodichloromethane	83	7.569	7.569	(1.176)	872785	75.0000	79.24
	49 2-Chloroethylvinyl ether	63	7.994	7.994	(1.242)	3147621	750.000	747.6
	50 cis-1,3-Dichloropropene	75	8.136	8.136	(1.264)	1026648	75.0000	78.32
	51 4-Methyl-2-pentanone	58	8.359	8.359	(1.299)	2057991	375.000	387.6(Q)
	52 Toluene	92	8.531	8.531	(0.835)	1523712	75.0000	73.10
	53 trans-1,3-Dichloropropene	75	8.845	8.845	(0.865)	972878	75.0000	82.12
	54 1,1,2-Trichloroethane	83	9.057	9.057	(0.886)	476636	75.0000	77.46
	55 Tetrachloroethene	166	9.189	9.189	(0.899)	722850	75.0000	74.18
	56 1,3-Dichloropropane	76	9.260	9.260	(0.906)	1039512	75.0000	76.72(Q)
	57 2-Hexanone	43	9.392	9.402	(0.919)	4294917	375.000	380.2
	58 Dibromochloromethane	129	9.533	9.533	(0.933)	695142	75.0000	81.92
	59 1,2-Dibromoethane	107	9.645	9.645	(0.944)	647552	75.0000	78.66
	60 1-Chlorohexane	91	10.262	10.263	(1.004)	803071	75.0000	71.74(Q)
	61 Chlorobenzene	112	10.252	10.252	(1.003)	1544745	75.0000	72.81
	62 1,1,1,2-Tetrachloroethane	131	10.364	10.374	(1.014)	690099	75.0000	81.24
	63 Ethylbenzene	91	10.404	10.404	(1.018)	2543138	75.0000	73.08
	64 m-,p-Xylene	106	10.556	10.556	(1.033)	1705117	150.000	146.1
	65 o-Xylene	106	11.032	11.032	(1.079)	856212	75.0000	74.49
M	66 Xylene (total)	106				2561329	225.000	220.6
	67 Styrene	104	11.052	11.062	(1.081)	1445103	75.0000	73.72
	68 Bromoform	173	11.275	11.275	(1.103)	373308	75.0000	83.87
	69 Isopropylbenzene	105	11.498	11.498	(1.125)	2322885	75.0000	72.63
	70 1,1,2,2-Tetrachloroethane	83	11.893	11.893	(0.908)	443132	75.0000	74.48
	71 Bromobenzene	156	11.842	11.842	(0.904)	554970	75.0000	75.55
	72 1,2,3-Trichloropropane	110	11.923	11.923	(0.910)	172129	75.0000	74.85(Q)

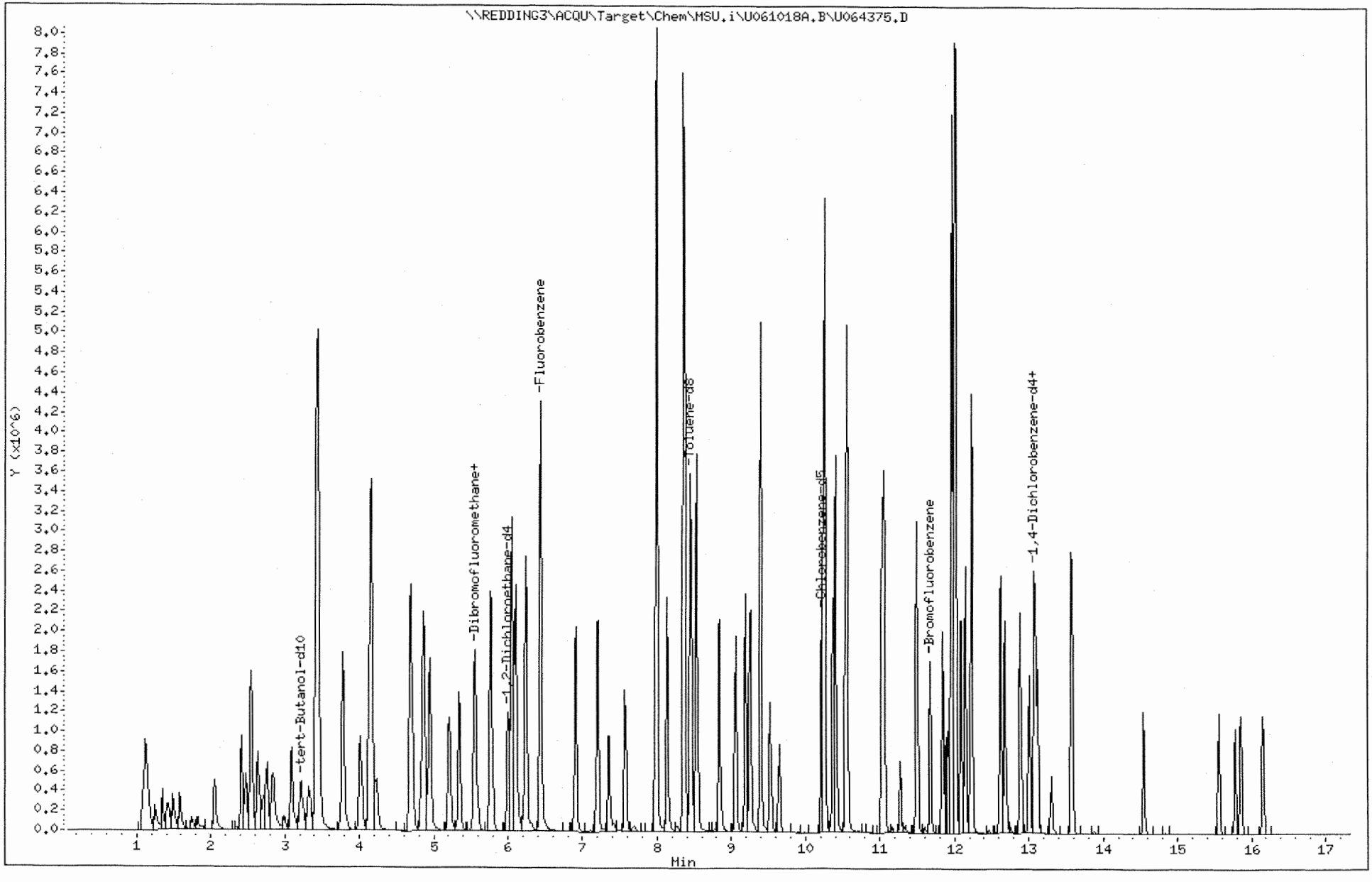
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
73 trans-1,4-Dichloro-2-butene	53	11.964	11.964	(0.913)	2065510	750.000	728.2(AQ)
74 n-Propylbenzene	120	12.004	12.004	(0.917)	503894	75.0000	69.81
75 5-Methyl-3-heptanone	57	12.014	12.014	(0.917)	2453827	375.000	347.0(Q)
76 2-Chlorotoluene	126	12.095	12.095	(0.923)	454959	75.0000	74.00(Q)
77 1,3,5-Trimethylbenzene	105	12.227	12.227	(0.934)	1375276	75.0000	70.92
78 4-Chlorotoluene	126	12.237	12.237	(0.934)	426612	75.0000	72.63(Q)
79 tert-Butylbenzene	119	12.622	12.622	(0.964)	1357395	75.0000	72.57
80 1,2,4-Trimethylbenzene	105	12.683	12.683	(0.968)	1309694	75.0000	72.32
81 sec-Butylbenzene	105	12.885	12.895	(0.984)	1718667	75.0000	71.27
82 1,3-Dichlorobenzene	146	13.007	13.007	(0.993)	668716	75.0000	74.85
83 p-Isopropyltoluene	119	13.078	13.078	(0.998)	1375778	75.0000	71.87
84 1,4-Dichlorobenzene	146	13.118	13.118	(1.002)	658099	75.0000	75.15
85 n-Butylbenzene	91	13.584	13.584	(1.037)	1056707	75.0000	72.86
86 1,2-Dichlorobenzene	146	13.574	13.574	(1.036)	582831	75.0000	77.15
87 1,2-Dibromo-3-chloropropane	75	14.546	14.546	(1.111)	262757	300.000	347.2(Q)
88 1,2,4-Trichlorobenzene	180	15.559	15.559	(1.188)	401870	75.0000	79.64
89 Hexachlorobutadiene	225	15.781	15.781	(1.205)	239900	75.0000	78.58
90 Naphthalene	128	15.862	15.862	(1.211)	969250	75.0000	84.73
91 1,2,3-Trichlorobenzene	180	16.156	16.156	(1.233)	393003	75.0000	80.06
M 92 Total Chlorobenzenes	100				6248790	75.0000	620.1

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064375.D
Date : 18-OCT-2006 16:17
Client ID: VSTD075
Sample Info: VSTD075;VSTD075
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: Reggie
Column diameter: 0.32



Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064376.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 18-OCT-2006 16:41
Operator : Reggie Inst ID: MSU.i
Smp Info : VSTD100;VSTD100
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\8260s5.m
Meth Date : 26-Oct-2006 09:00 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 16:41 Cal File: U064376.D
Als bottle: 6 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * UF*Vo*Vt/(Ws*Va*((100-M)/100)) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Vo	10.000	Total MeOH
Vt	5.000	Volume Sample Purged
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
*	1 Fluorobenzene	96	6.435	6.435	(1.000)	1646948	50.0000	(a)
*	2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1128838	50.0000	(a)
*	3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	251434	50.0000	(a)
*	4 tert-Butanol-d10	65	3.215	3.215	(1.000)	809433	600.000	
$	5 Dibromofluoromethane	113	5.564	5.564	(0.865)	978646	100.000	107.6(A)
$	6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	1348470	100.000	108.6(A)
$	7 Toluene-d8	98	8.450	8.450	(0.827)	2944005	100.000	98.28
$	8 Bromofluorobenzene	174	11.680	11.680	(0.892)	719243	100.000	101.5(A)
	9 Dichlorodifluoromethane	85	1.250	1.250	(0.194)	361916	100.000	99.34
	10 Chloromethane	50	1.412	1.412	(0.220)	759554	100.000	101.4(A)
	11 Vinyl chloride	62	1.483	1.483	(0.231)	584494	100.000	100.3(A)
	12 Bromomethane	94	1.746	1.746	(0.271)	136979	100.000	105.1(A)
	13 Chloroethane	64	1.827	1.827	(0.284)	222326	100.000	101.6(A)
	14 Trichlorofluoromethane	101	2.050	2.050	(0.319)	690789	100.000	96.49
	15 Dichlorotrifluoroethane	83	2.415	2.415	(0.375)	661517	100.000	101.8(A)
	16 1,1,2-Trichlorotrifluoroethane	101	2.546	2.546	(0.396)	481421	100.000	103.4(A)
	17 Acrolein	56	2.475	2.475	(0.385)	784726	1000.00	1197(AQ)
	18 1,1-Dichloroethene	96	2.546	2.546	(0.396)	371585	100.000	99.04(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	19 Acetone	43	2.637	2.637	(0.410)	1786729	500.000	499.6
	20 Iodomethane	142	2.708	2.708	(0.421)	442775	100.000	103.2(A)
	21 Carbon disulfide	76	2.759	2.759	(0.429)	1208686	100.000	100.4(A)
	22 2-Propanol	45	2.830	2.830	(0.440)	1836983	2500.00	2619(A)
	23 Methylene chloride	84	3.093	3.093	(0.481)	397119	100.000	94.75(Q)
	24 tert-Butanol	59	3.316	3.316	(1.031)	992659	1000.00	971.2
	25 Acrylonitrile	53	3.437	3.437	(0.534)	4485696	1000.00	1014(A)
	26 trans-1,2-Dichloroethene	96	3.417	3.417	(0.531)	621924	100.000	100.2(AQ)
	27 tert-Butylmethylether	73	3.448	3.448	(0.536)	2074748	100.000	101.8(AQ)
	28 Isopropylether	45	4.156	4.156	(0.646)	5916587	100.000	101.6(A)
	29 1,1-Dichloroethane	63	4.015	4.015	(0.624)	1905125	100.000	103.7(A)
	30 Vinyl acetate	43	4.146	4.146	(0.644)	5596325	100.000	107.8(A)
	31 tert-Butylethylether	59	4.693	4.693	(0.729)	4149165	100.000	105.7(A)
	32 2,2-Dichloropropane	77	4.855	4.855	(0.755)	1172166	100.000	113.3(AQ)
	33 cis-1,2-Dichloroethene	96	4.875	4.875	(0.758)	902733	100.000	102.8(AQ)
M	34 1,2-Dichloroethene (total)	96				1524657	100.000	203.0
	35 2-Butanone	43	4.946	4.946	(0.769)	4325705	500.000	518.6(A)
	36 Bromochloromethane	128	5.210	5.210	(0.810)	433677	100.000	102.2(AQ)
	37 Chloroform	83	5.341	5.341	(0.830)	1510121	100.000	103.3(A)
	38 1,1,1-Trichloroethane	97	5.544	5.544	(0.862)	1260559	100.000	107.5(A)
	39 1,1-Dichloropropene	75	5.777	5.777	(0.898)	1041942	100.000	101.0(A)
	40 Carbon tetrachloride	119	5.756	5.756	(0.895)	1047934	100.000	115.3(A)
	41 Benzene	78	6.050	6.050	(0.940)	3238524	100.000	98.25(Q)
	42 tert-Amylmethylether	73	6.242	6.242	(0.970)	2595917	100.000	104.2(AQ)
	43 1,2-Dichloroethane	62	6.101	6.101	(0.948)	1517660	100.000	103.6(A)
	44 Trichloroethene	95	6.911	6.911	(1.074)	920958	100.000	101.2(A)
	45 1,2-Dichloropropane	63	7.204	7.204	(1.120)	1143864	100.000	103.1(A)
	46 1,4-Dioxane	88	7.417	7.417	(1.153)	137131	2500.00	2979(AQ)
	47 Dibromomethane	93	7.346	7.346	(1.142)	559711	100.000	105.4(A)
	48 Bromodichloromethane	83	7.569	7.569	(1.176)	1183947	100.000	108.0(A)
	49 2-Chloroethylvinyl ether	63	7.994	7.994	(1.242)	3950748	1000.00	943.1
	50 cis-1,3-Dichloropropene	75	8.136	8.136	(1.264)	1373003	100.000	105.3(A)
	51 4-Methyl-2-pentanone	58	8.359	8.359	(1.299)	2672464	500.000	505.9(AQ)
	52 Toluene	92	8.531	8.531	(0.835)	1969620	100.000	94.62
	53 trans-1,3-Dichloropropene	75	8.845	8.845	(0.865)	1296153	100.000	109.6(A)
	54 1,1,2-Trichloroethane	83	9.057	9.057	(0.886)	634648	100.000	103.3(A)
	55 Tetrachloroethene	166	9.189	9.189	(0.899)	942972	100.000	96.90
	56 1,3-Dichloropropane	76	9.260	9.260	(0.906)	1371069	100.000	101.3(AQ)
	57 2-Hexanone	43	9.402	9.402	(0.920)	5608324	500.000	497.2
	58 Dibromochloromethane	129	9.533	9.533	(0.933)	941749	100.000	111.1(A)
	59 1,2-Dibromoethane	107	9.645	9.645	(0.944)	848922	100.000	103.2(A)
	60 1-Chlorohexane	91	10.263	10.263	(1.004)	1017690	100.000	91.04(Q)
	61 Chlorobenzene	112	10.252	10.252	(1.003)	1951168	100.000	92.09
	62 1,1,1,2-Tetrachloroethane	131	10.374	10.374	(1.015)	916396	100.000	108.0(A)
	63 Ethylbenzene	91	10.404	10.404	(1.018)	3219276	100.000	92.63
	64 m-,p-Xylene	106	10.556	10.556	(1.033)	2142305	200.000	183.8
	65 o-Xylene	106	11.032	11.032	(1.079)	1072096	100.000	93.39
M	66 Xylene (total)	106				3214401	300.000	277.2
	67 Styrene	104	11.062	11.062	(1.082)	1810498	100.000	92.49
	68 Bromoform	173	11.275	11.275	(1.103)	496373	100.000	111.7(A)
	69 Isopropylbenzene	105	11.498	11.498	(1.125)	2860088	100.000	89.54
	70 1,1,2,2-Tetrachloroethane	83	11.893	11.893	(0.908)	571381	100.000	99.57
	71 Bromobenzene	156	11.842	11.842	(0.904)	687773	100.000	97.08
	72 1,2,3-Trichloropropane	110	11.923	11.923	(0.910)	214360	100.000	96.65(Q)

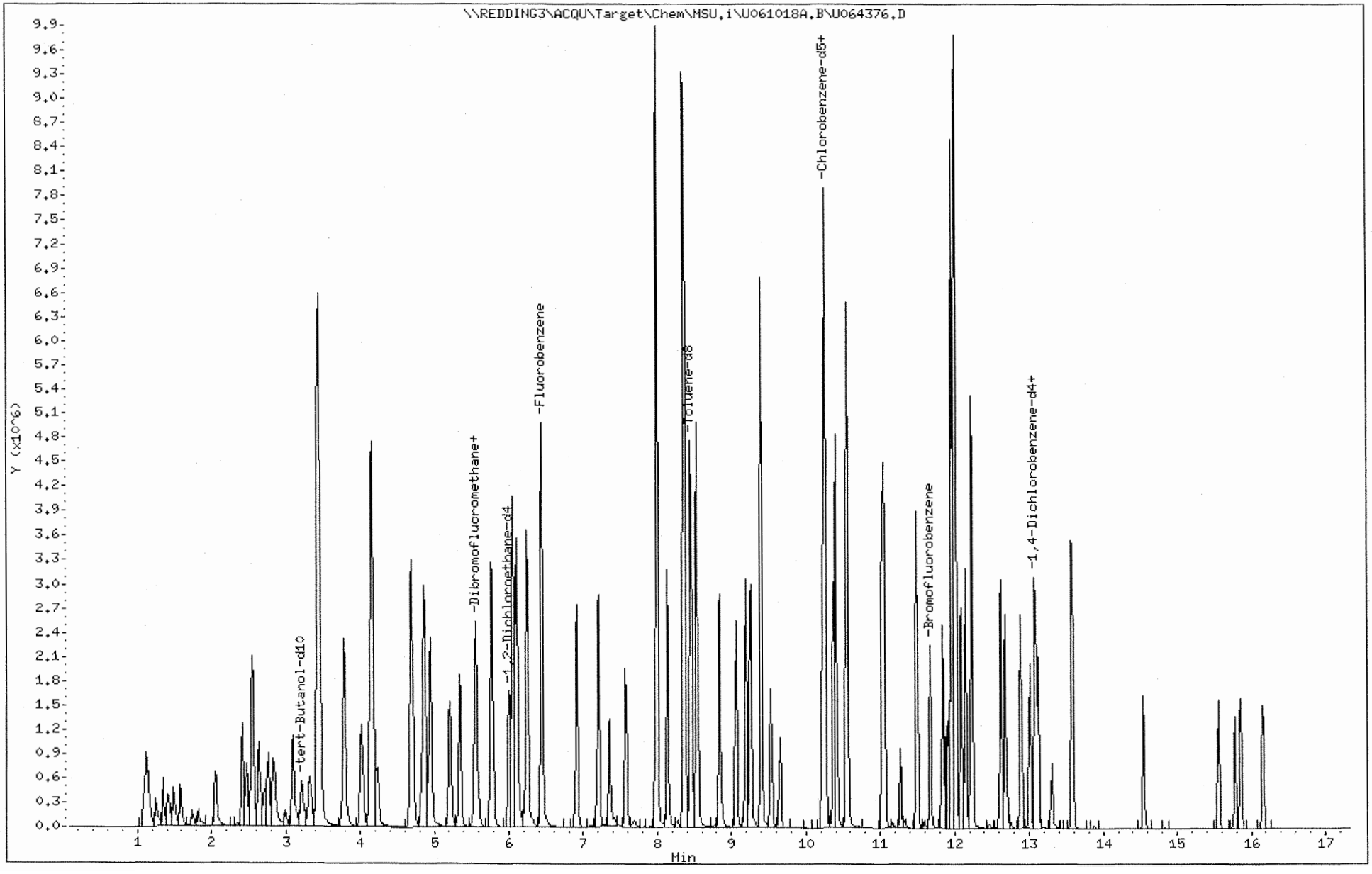
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
73	trans-1,4-Dichloro-2-butene	53	11.964	11.964	(0.913)	2510115	1000.00	917.6(AQ)
74	n-Propylbenzene	120	12.004	12.004	(0.917)	601101	100.000	86.35(Q)
75	5-Methyl-3-heptanone	57	12.014	12.014	(0.917)	2967231	500.000	435.1
76	2-Chlorotoluene	126	12.095	12.095	(0.923)	557558	100.000	94.02(Q)
77	1,3,5-Trimethylbenzene	105	12.227	12.227	(0.934)	1617999	100.000	86.51
78	4-Chlorotoluene	126	12.237	12.237	(0.934)	522032	100.000	92.15(Q)
79	tert-Butylbenzene	119	12.622	12.622	(0.964)	1623292	100.000	89.98
80	1,2,4-Trimethylbenzene	105	12.683	12.683	(0.968)	1589290	100.000	90.99
81	sec-Butylbenzene	105	12.895	12.895	(0.985)	2068401	100.000	88.93
82	1,3-Dichlorobenzene	146	13.007	13.007	(0.993)	853514	100.000	99.06
83	p-Isopropyltoluene	119	13.078	13.078	(0.998)	1674512	100.000	90.70
84	1,4-Dichlorobenzene	146	13.118	13.118	(1.002)	834290	100.000	98.78
85	n-Butylbenzene	91	13.584	13.584	(1.037)	1323950	100.000	94.65
86	1,2-Dichlorobenzene	146	13.574	13.574	(1.036)	760886	100.000	104.4(A)
87	1,2-Dibromo-3-chloropropane	75	14.546	14.546	(1.111)	351717	400.000	481.9(Q)
88	1,2,4-Trichlorobenzene	180	15.559	15.559	(1.188)	522957	100.000	107.4(A)
89	Hexachlorobutadiene	225	15.781	15.781	(1.205)	304104	100.000	103.3(A)
90	Naphthalene	128	15.862	15.862	(1.211)	1285558	100.000	116.5(A)
91	1,2,3-Trichlorobenzene	180	16.156	16.156	(1.233)	514053	100.000	108.6(A)
M 92	Total Chlorobenzenes	100				8106024	100.000	825.2

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064376.D
Date : 18-OCT-2006 16:41
Client ID: VSTD100
Sample Info: VSTD100;VSTD100
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: Reggie
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/13/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK
File ID: K067570

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Dichlorodifluoromethane (CFC 12)	10.0	10.29	0.166	0.171	2.9	NA	+/- 25.0	AverageRF	
Chloromethane	10.0	9.781	0.162	0.158	-2.2	NA	+/- 25.0	AverageRF	
Vinyl Chloride	10.0	10.27	0.197	0.202	2.7	NA	+/- 25.0	AverageRF	
Bromomethane	10.0	10.20	0.155	0.159	2.0	NA	+/- 25.0	AverageRF	
Chloroethane	10.0	10.28	0.106	0.110	2.8	NA	+/- 25.0	AverageRF	
Trichlorofluoromethane (CFC 11)	10.0	9.916	0.242	0.240	-0.8	NA	+/- 25.0	AverageRF	
1,1,2-Trichlorotrifluoroethane	10.0	10.39	0.228	0.237	3.9	NA	+/- 25.0	AverageRF	
1,1-Dichloroethene (1,1-DCE)	10.0	10.99	0.193	0.212	9.9	NA	+/- 25.0	AverageRF	
Acetone	50.0	49.23	0.067	0.054	NA	-1.5	+/- 25.0	Linear	
Carbon Disulfide	10.0	9.995	0.877	0.876	-0.0	NA	+/- 25.0	AverageRF	
Dichloromethane (Methylene Chloride)	10.0	10.32	0.305	0.315	3.2	NA	+/- 25.0	AverageRF	
trans-1,2-Dichloroethene	10.0	9.793	0.248	0.243	-2.1	NA	+/- 25.0	AverageRF	
Methyl tert-Butyl Ether	10.0	10.09	0.543	0.548	0.9	NA	+/- 25.0	AverageRF	
1,1-Dichloroethane (1,1-DCA)	10.0	9.722	0.490	0.477	-2.8	NA	+/- 25.0	AverageRF	
Vinyl Acetate	10.0	10.44	0.923	0.963	4.4	NA	+/- 25.0	AverageRF	
2,2-Dichloropropane	10.0	10.24	0.357	0.366	2.4	NA	+/- 25.0	AverageRF	
cis-1,2-Dichloroethene	10.0	10.43	0.277	0.289	4.3	NA	+/- 25.0	AverageRF	
2-Butanone (MEK)	50.0	47.34	0.098	0.087	NA	-5.3	+/- 25.0	Linear	
Bromochloromethane	10.0	9.748	0.150	0.147	-2.5	NA	+/- 25.0	AverageRF	
Chloroform	10.0	9.577	0.517	0.495	-4.2	NA	+/- 25.0	AverageRF	
1,1,1-Trichloroethane (TCA)	10.0	9.799	0.348	0.341	-2.0	NA	+/- 25.0	AverageRF	
1,1-Dichloropropene	10.0	10.55	0.335	0.354	5.5	NA	+/- 25.0	AverageRF	
Carbon Tetrachloride	10.0	10.06	0.272	0.273	0.6	NA	+/- 25.0	AverageRF	
Benzene	10.0	10.34	1.073	1.109	3.4	NA	+/- 25.0	AverageRF	
1,2-Dichloroethane (EDC)	10.0	9.544	0.360	0.343	-4.6	NA	+/- 25.0	AverageRF	
Trichloroethene (TCE)	10.0	9.947	0.285	0.283	-0.5	NA	+/- 25.0	AverageRF	
1,2-Dichloropropane	10.0	9.875	0.299	0.295	-1.2	NA	+/- 25.0	AverageRF	
Dibromomethane	10.0	9.502	0.184	0.174	-5.0	NA	+/- 25.0	AverageRF	
Bromodichloromethane	10.0	9.630	0.382	0.368	-3.7	NA	+/- 25.0	AverageRF	
cis-1,3-Dichloropropene	10.0	10.22	0.444	0.454	2.2	NA	+/- 25.0	AverageRF	
4-Methyl-2-pentanone (MIBK)	50.0	46.51	0.231	0.215	-7.0	NA	+/- 25.0	AverageRF	
Toluene	10.0	9.793	0.985	0.965	-2.1	NA	+/- 25.0	AverageRF	
trans-1,3-Dichloropropene	10.0	9.709	0.630	0.612	-2.9	NA	+/- 25.0	AverageRF	
1,1,2-Trichloroethane	10.0	9.146	0.341	0.312	-8.5	NA	+/- 25.0	AverageRF	
Tetrachloroethene (PCE)	10.0	10.23	0.487	0.498	2.3	NA	+/- 25.0	AverageRF	
1,3-Dichloropropane	10.0	9.723	0.637	0.619	-2.8	NA	+/- 25.0	AverageRF	
2-Hexanone	50.0	48.44	0.224	0.217	-3.1	NA	+/- 25.0	AverageRF	
Dibromochloromethane	10.0	9.652	0.461	0.445	-3.5	NA	+/- 25.0	AverageRF	
1,2-Dibromoethane (EDB)	10.0	9.789	0.385	0.377	-2.1	NA	+/- 25.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/13/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK
File ID: K067570

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chlorobenzene	10.0	9.860	1.049	1.035	-1.4	NA	+/- 25.0	AverageRF	
1,1,1,2-Tetrachloroethane	10.0	9.889	0.424	0.419	-1.1	NA	+/- 25.0	AverageRF	
Ethylbenzene	10.0	10.76	1.527	1.643	7.6	NA	+/- 25.0	AverageRF	
Xylenes, Total	N/A	N/A	0.489	0.508	3.9	NA	+/- 25.0	AverageRF	
Styrene	10.0	10.63	0.801	0.851	6.3	NA	+/- 25.0	AverageRF	
Bromoform	10.0	10.04	0.242	0.243	0.4	NA	+/- 25.0	AverageRF	
Isopropylbenzene	10.0	11.13	1.161	1.293	11.3	NA	+/- 25.0	AverageRF	
1,1,2,2-Tetrachloroethane	10.0	10.45	1.049	0.971	NA	4.5	+/- 25.0	Linear	
Bromobenzene	10.0	10.65	1.178	1.159	NA	6.5	+/- 25.0	Linear	
1,2,3-Trichloropropane	10.0	9.772	0.250	0.214	NA	-2.3	+/- 25.0	Linear	
n-Propylbenzene	10.0	10.27	0.876	0.900	2.7	NA	+/- 25.0	AverageRF	
2-Chlorotoluene	10.0	10.02	0.856	0.858	0.2	NA	+/- 25.0	AverageRF	
1,3,5-Trimethylbenzene	10.0	10.40	2.468	2.565	4.0	NA	+/- 25.0	AverageRF	
4-Chlorotoluene	10.0	10.26	0.866	0.888	2.6	NA	+/- 25.0	AverageRF	
tert-Butylbenzene	10.0	10.89	2.251	2.452	8.9	NA	+/- 25.0	AverageRF	
1,2,4-Trimethylbenzene	10.0	10.80	2.308	2.494	8.0	NA	+/- 25.0	AverageRF	
sec-Butylbenzene	10.0	11.27	2.788	3.143	12.7	NA	+/- 25.0	AverageRF	
1,3-Dichlorobenzene	10.0	9.817	1.682	1.651	-1.8	NA	+/- 25.0	AverageRF	
4-Isopropyltoluene	10.0	10.82	2.292	2.481	8.2	NA	+/- 25.0	AverageRF	
1,4-Dichlorobenzene	10.0	9.625	1.770	1.704	-3.7	NA	+/- 25.0	AverageRF	
n-Butylbenzene	10.0	9.988	2.283	2.280	-0.1	NA	+/- 25.0	AverageRF	
1,2-Dichlorobenzene	10.0	9.754	1.521	1.484	-2.5	NA	+/- 25.0	AverageRF	
1,2-Dibromo-3-chloropropane (DBCP)	40.0	37.39	0.124	0.108	NA	-6.5	+/- 25.0	Linear	
1,2,4-Trichlorobenzene	10.0	10.33	0.911	0.941	3.2	NA	+/- 25.0	AverageRF	
Hexachlorobutadiene	10.0	9.592	0.470	0.451	-4.1	NA	+/- 25.0	AverageRF	
Naphthalene	10.0	9.710	1.453	1.509	NA	-2.9	+/- 25.0	Linear	
1,2,3-Trichlorobenzene	10.0	9.807	0.818	0.803	-1.9	NA	+/- 25.0	AverageRF	
Dibromofluoromethane	N/A	N/A	0.291	0.299	0.0	NA	+/- 25.0	AverageRF	
1,2-Dichloroethane-d4	N/A	N/A	0.297	0.278	0.0	NA	+/- 25.0	AverageRF	
Toluene-d8	N/A	N/A	1.302	1.370	0.0	NA	+/- 25.0	AverageRF	
4-Bromofluorobenzene	N/A	N/A	0.999	1.080	0.0	NA	+/- 25.0	AverageRF	

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067570.D
Lab Smp Id: QCALTSTD Client Smp ID: QCALTSTD
Inj Date : 13-OCT-2006 16:10
Operator : X Inst ID: MSK.i
Smp Info : QCALTSTD;QCALTSTD
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\8260w10(0.5).m
Meth Date : 16-Oct-2006 10:17 MSK.i Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1	Fluorobenzene	96	9.788	9.788	(1.000)	2162833	10.0000	
* 2	Chlorobenzene-d5	117	13.120	13.120	(1.000)	1343569	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.708	15.708	(1.000)	459971	10.0000	
$ 4	Dibromofluoromethane	113	8.985	8.985	(0.918)	647722	10.0000	10.3
$ 5	1,2-Dichloroethane-d4	65	9.386	9.386	(0.959)	600755	10.0000	9.34
$ 6	Toluene-d8	98	11.528	11.528	(0.879)	1840637	10.0000	10.5
$ 7	Bromofluorobenzene	174	14.384	14.384	(0.916)	496642	10.0000	10.8
8	Dichlorodifluoromethane	85	3.570	3.570	(0.365)	368845	10.0000	10.3(Q)
9	1,2-Dichlorotetrafluoroethane	85	3.823	3.823	(0.391)	415206	10.0000	10.3(Q)
10	Chloromethane	50	3.913	3.913	(0.400)	342358	10.0000	9.78
11	Vinyl chloride	62	4.121	4.121	(0.421)	437523	10.0000	10.3
12	Bromomethane	94	4.746	4.746	(0.485)	343081	10.0000	10.2
13	Chloroethane	64	4.909	4.909	(0.502)	236862	10.0000	10.3
14	Trichlorofluoromethane	101	5.355	5.355	(0.547)	519419	10.0000	9.92
15	1,1,2-Trichlorotrifluoroethane	101	6.144	6.144	(0.628)	511677	10.0000	10.4
16	Acrolein	56	5.965	5.965	(0.609)	302889	100.000	196(Q)
17	1,1-Dichloroethene	96	6.159	6.159	(0.629)	459525	10.0000	11.0
18	Acetone	43	6.173	6.173	(0.631)	583120	50.0000	49.2
19	Bromoethane	108	6.411	6.411	(0.655)	373616	10.0000	9.39
20	Iodomethane	142	6.411	6.411	(0.655)	708128	10.0000	9.25
21	Carbon disulfide	76	6.545	6.545	(0.669)	1895203	10.0000	9.99
22	Methylene chloride	84	6.813	6.813	(0.696)	680944	10.0000	10.3
23	tert-Butanol	59	6.887	6.887	(0.704)	263685	100.000	100

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
24	Acrylonitrile	53	7.096	7.096	(0.725)	1426291	100.000	98.8
25	n-Hexane	57	8.226	8.226	(0.840)	487095	10.0000	10.2
26	trans-1,2-Dichloroethene	96	7.200	7.200	(0.736)	525228	10.0000	9.79
27	tert-Butylmethylether	73	7.185	7.185	(0.734)	1185205	10.0000	10.1
28	1,1-Dichloroethane	63	7.735	7.735	(0.790)	1030665	10.0000	9.72
29	Isopropylether	45	7.780	7.780	(0.795)	2325955	10.0000	10.0
30	Vinyl acetate	43	7.735	7.735	(0.790)	2082922	10.0000	10.4
31	tert-Butylethylether	59	8.226	8.226	(0.840)	1678396	10.0000	10.3
32	2,2-Dichloropropane	77	8.464	8.464	(0.865)	791342	10.0000	10.2(Q)
33	cis-1,2-Dichloroethene	96	8.449	8.449	(0.863)	624495	10.0000	10.4
M 34	1,2-Dichloroethene (total)	96				1149723	20.0000	(a)
35	2-Butanone	43	8.405	8.405	(0.859)	944696	50.0000	47.3
36	Bromochloromethane	128	8.732	8.732	(0.892)	317104	10.0000	9.75
37	Chloroform	83	8.791	8.791	(0.898)	1071401	10.0000	9.58
38	1,1,1-Trichloroethane	97	9.074	9.074	(0.927)	737561	10.0000	9.80(Q)
39	Isobutyl alcohol	43	9.565	9.565	(0.977)	518267	250.000	229(Q)
40	1,1-Dichloropropene	75	9.252	9.252	(0.945)	764961	10.0000	10.5
41	Carbon tetrachloride	119	9.282	9.282	(0.948)	591001	10.0000	10.1
42	tert-Amylmethylether	73	9.565	9.565	(0.977)	1387779	10.0000	9.82
43	Benzene	78	9.505	9.505	(0.971)	2398123	10.0000	10.3
44	1,2-Dichloroethane	62	9.475	9.475	(0.968)	742363	10.0000	9.54
45	Trichloroethene	95	10.204	10.204	(1.043)	612536	10.0000	9.95
46	1,2-Dichloropropane	63	10.442	10.442	(1.067)	638556	10.0000	9.88
47	1,4-Dioxane	88	10.561	10.561	(1.079)	68523	250.000	250(Q)
48	Dibromomethane	93	10.576	10.576	(1.081)	377297	10.0000	9.50
49	Bromodichloromethane	83	10.725	10.725	(1.096)	795912	10.0000	9.63
50	2-Chloroethylvinyl ether	63	10.978	10.978	(1.122)	3298308	100.000	90.7
51	cis-1,3-Dichloropropene	75	11.201	11.201	(1.144)	980871	10.0000	10.2
52	4-Methyl-2-pentanone	43	11.305	11.305	(1.155)	2323835	50.0000	46.5
53	Toluene	92	11.602	11.602	(0.884)	1296592	10.0000	9.79
54	trans-1,3-Dichloropropene	75	11.766	11.766	(0.897)	822278	10.0000	9.71
55	1,1,2-Trichloroethane	83	11.989	11.989	(0.914)	419351	10.0000	9.15
56	Tetrachloroethene	166	12.227	12.227	(0.932)	669014	10.0000	10.2
57	1,3-Dichloropropane	76	12.197	12.197	(0.930)	832007	10.0000	9.72
58	2-Hexanone	43	12.197	12.197	(0.930)	1454763	50.0000	48.4
59	Dibromochloromethane	129	12.465	12.465	(0.950)	598101	10.0000	9.65
60	1,2-Dibromoethane	107	12.629	12.629	(0.963)	505968	10.0000	9.79
61	1-Chlorohexane	91	13.030	13.030	(0.993)	699937	10.0000	10.8
62	Chlorobenzene	112	13.149	13.149	(1.002)	1390300	10.0000	9.86(Q)
63	1,1,1,2-Tetrachloroethane	131	13.209	13.209	(1.007)	563173	10.0000	9.89
64	Ethylbenzene	91	13.224	13.224	(1.008)	2207530	10.0000	10.8
65	m-,p-Xylene	106	13.343	13.343	(1.017)	1389938	20.0000	20.6
66	o-Xylene	106	13.804	13.804	(1.052)	657766	10.0000	10.6
M 67	Xylene (total)	106				2047704	30.0000	(a)
68	Styrene	104	13.804	13.804	(1.052)	1143703	10.0000	10.6
69	Bromoform	173	14.057	14.057	(1.071)	325854	10.0000	10.0
70	Isopropylbenzene	105	14.176	14.176	(1.080)	1737173	10.0000	11.1
71	1,1,2,2-Tetrachloroethane	83	14.458	14.458	(0.920)	446776	10.0000	10.4
72	Bromobenzene	156	14.592	14.592	(0.929)	532915	10.0000	10.6
73	1,2,3-Trichloropropane	110	14.547	14.547	(0.926)	98372	10.0000	9.77(Q)
74	n-Propylbenzene	120	14.637	14.637	(0.932)	413835	10.0000	10.3
75	trans-1,4-Dichloro-2-butene	53	14.518	14.518	(0.924)	1055518	10.0000	10.4(A)
76	2-Chlorotoluene	126	14.771	14.771	(0.940)	394678	10.0000	10.0
77	4-Ethyltoluene	105	14.741	14.741	(0.938)	1478393	10.0000	10.4(A)

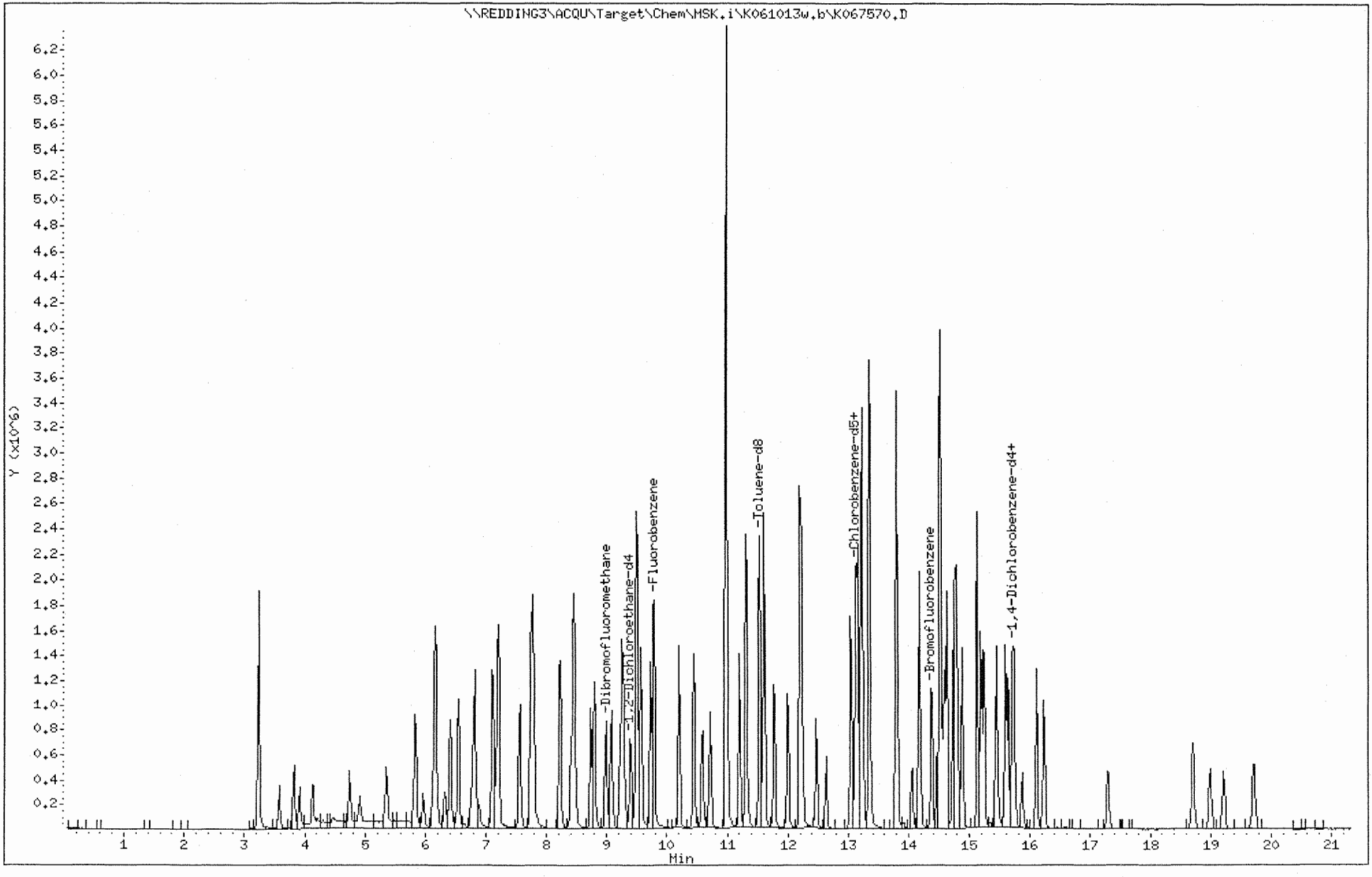
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3,5-Trimethylbenzene	105	14.800	14.800	(0.942)	1179963	10.0000	10.4(Q)
79 4-Chlorotoluene	126	14.890	14.890	(0.948)	408576	10.0000	10.2
80 tert-Butylbenzene	119	15.187	15.187	(0.967)	1127886	10.0000	10.9
81 1,2,4-Trimethylbenzene	105	15.247	15.247	(0.971)	1146952	10.0000	10.8
82 sec-Butylbenzene	105	15.440	15.440	(0.983)	1445664	10.0000	11.3
83 1,3-Dichlorobenzene	146	15.633	15.633	(0.995)	759563	10.0000	9.82
84 p-Isopropyltoluene	119	15.589	15.589	(0.992)	1141080	10.0000	10.8
85 1,4-Dichlorobenzene	146	15.737	15.737	(1.002)	783582	10.0000	9.62
86 BenzylChloride	126	14.890	14.890	(0.948)	408576	10.0000	10.2
87 n-Butylbenzene	91	16.109	16.109	(1.026)	1048783	10.0000	9.99
88 1,2-Dichlorobenzene	146	16.228	16.228	(1.033)	682421	10.0000	9.75
89 1,2-Dibromo-3-chloropropane	75	17.284	17.284	(1.100)	198281	40.0000	37.4(Q)
90 1,2,4-Trichlorobenzene	180	18.712	18.712	(1.191)	432906	10.0000	10.3
91 Hexachlorobutadiene	225	18.995	18.995	(1.209)	207546	10.0000	9.59
92 Naphthalene	128	19.218	19.218	(1.223)	694062	10.0000	9.71
93 1,2,3-Trichlorobenzene	180	19.724	19.724	(1.256)	369186	10.0000	9.81

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067570.D
Date : 13-OCT-2006 16:10
Client ID: QCALTSTD
Sample Info: QCALTSTD;QCALTSTD
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/18/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU
File ID: U064377

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Dichlorodifluoromethane (CFC 12)	50.0	59.05	0.111	0.131	18.1	NA	+/- 25.0	AverageRF	
Chloromethane	50.0	57.15	0.227	0.260	14.3	NA	+/- 25.0	AverageRF	
Vinyl Chloride	50.0	58.71	0.177	0.208	17.4	NA	+/- 25.0	AverageRF	
Bromomethane	50.0	59.51	0.040	0.047	18.9	NA	+/- 25.0	AverageRF	
Chloroethane	50.0	60.77	0.066	0.081	21.6	NA	+/- 25.0	AverageRF	
Trichlorofluoromethane (CFC 11)	50.0	59.15	0.217	0.257	18.3	NA	+/- 25.0	AverageRF	
1,1,2-Trichlorotrifluoroethane	50.0	56.53	0.141	0.160	13.1	NA	+/- 25.0	AverageRF	
1,1-Dichloroethene (1,1-DCE)	50.0	61.04	0.114	0.139	22.1	NA	+/- 25.0	AverageRF	
Acetone	250.0	252.4	0.109	0.110	1.0	NA	+/- 25.0	AverageRF	
Carbon Disulfide	50.0	54.85	0.365	0.401	9.7	NA	+/- 25.0	AverageRF	
Dichloromethane (Methylene Chloride)	50.0	52.98	0.127	0.135	6.0	NA	+/- 25.0	AverageRF	
trans-1,2-Dichloroethene	50.0	57.38	0.188	0.216	14.8	NA	+/- 25.0	AverageRF	
Methyl tert-Butyl Ether	50.0	54.19	0.618	0.670	8.4	NA	+/- 25.0	AverageRF	
1,1-Dichloroethane (1,1-DCA)	50.0	53.08	0.558	0.592	6.2	NA	+/- 25.0	AverageRF	
Vinyl Acetate	50.0	51.70	1.576	1.630	3.4	NA	+/- 25.0	AverageRF	
2,2-Dichloropropane	50.0	57.37	0.314	0.360	14.7	NA	+/- 25.0	AverageRF	
cis-1,2-Dichloroethene	50.0	55.18	0.267	0.294	10.4	NA	+/- 25.0	AverageRF	
2-Butanone (MEK)	250.0	246.7	0.253	0.250	-1.3	NA	+/- 25.0	AverageRF	
Bromochloromethane	50.0	52.80	0.129	0.136	5.6	NA	+/- 25.0	AverageRF	
Chloroform	50.0	52.24	0.444	0.464	4.5	NA	+/- 25.0	AverageRF	
1,1,1-Trichloroethane (TCA)	50.0	54.46	0.356	0.388	8.9	NA	+/- 25.0	AverageRF	
1,1-Dichloropropene	50.0	54.66	0.313	0.342	9.3	NA	+/- 25.0	AverageRF	
Carbon Tetrachloride	50.0	57.87	0.276	0.319	15.7	NA	+/- 25.0	AverageRF	
Benzene	50.0	53.55	1.001	1.072	7.1	NA	+/- 25.0	AverageRF	
1,2-Dichloroethane (EDC)	50.0	52.84	0.445	0.470	5.7	NA	+/- 25.0	AverageRF	
Trichloroethene (TCE)	50.0	54.63	0.276	0.302	9.2	NA	+/- 25.0	AverageRF	
1,2-Dichloropropane	50.0	52.94	0.337	0.356	5.9	NA	+/- 25.0	AverageRF	
Dibromomethane	50.0	52.44	0.161	0.169	4.9	NA	+/- 25.0	AverageRF	
Bromodichloromethane	50.0	52.52	0.333	0.349	5.0	NA	+/- 25.0	AverageRF	
cis-1,3-Dichloropropene	50.0	54.72	0.396	0.433	9.4	NA	+/- 25.0	AverageRF	
4-Methyl-2-pentanone (MIBK)	250.0	254.3	0.160	0.163	1.7	NA	+/- 25.0	AverageRF	
Toluene	50.0	52.17	0.922	0.962	4.3	NA	+/- 25.0	AverageRF	
trans-1,3-Dichloropropene	50.0	56.04	0.524	0.587	12.1	NA	+/- 25.0	AverageRF	
1,1,2-Trichloroethane	50.0	52.55	0.272	0.286	5.1	NA	+/- 25.0	AverageRF	
Tetrachloroethene (PCE)	50.0	54.77	0.431	0.472	9.5	NA	+/- 25.0	AverageRF	
1,3-Dichloropropane	50.0	52.57	0.599	0.630	5.1	NA	+/- 25.0	AverageRF	
2-Hexanone	250.0	259.2	0.500	0.518	3.7	NA	+/- 25.0	AverageRF	
Dibromochloromethane	50.0	55.15	0.375	0.414	10.3	NA	+/- 25.0	AverageRF	
1,2-Dibromoethane (EDB)	50.0	52.78	0.364	0.384	5.6	NA	+/- 25.0	AverageRF	

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/18/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU
File ID: U064377

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chlorobenzene	50.0	52.15	0.938	0.979	4.3	NA	+/- 25.0	AverageRF	
1,1,1,2-Tetrachloroethane	50.0	54.80	0.376	0.412	9.6	NA	+/- 25.0	AverageRF	
Ethylbenzene	50.0	52.03	1.539	1.602	4.1	NA	+/- 25.0	AverageRF	
Xylenes, Total	150.0	157.1	0.514	0.538	4.7	NA	+/- 25.0	AverageRF	
Styrene	50.0	52.31	0.867	0.907	4.6	NA	+/- 25.0	AverageRF	
Bromoform	50.0	56.50	0.197	0.222	13.0	NA	+/- 25.0	AverageRF	
Isopropylbenzene	50.0	52.83	1.415	1.495	5.7	NA	+/- 25.0	AverageRF	
1,1,2,2-Tetrachloroethane	50.0	51.62	1.141	1.178	3.2	NA	+/- 25.0	AverageRF	
Bromobenzene	50.0	52.03	1.409	1.466	4.0	NA	+/- 25.0	AverageRF	
1,2,3-Trichloropropane	50.0	50.19	0.441	0.443	0.4	NA	+/- 25.0	AverageRF	
n-Propylbenzene	50.0	54.36	1.384	1.505	8.7	NA	+/- 25.0	AverageRF	
2-Chlorotoluene	50.0	51.79	1.179	1.221	3.6	NA	+/- 25.0	AverageRF	
1,3,5-Trimethylbenzene	50.0	52.39	3.719	3.897	4.8	NA	+/- 25.0	AverageRF	
4-Chlorotoluene	50.0	51.70	1.126	1.165	3.4	NA	+/- 25.0	AverageRF	
tert-Butylbenzene	50.0	51.17	3.588	3.671	2.3	NA	+/- 25.0	AverageRF	
1,2,4-Trimethylbenzene	50.0	52.09	3.473	3.619	4.2	NA	+/- 25.0	AverageRF	
sec-Butylbenzene	50.0	54.00	4.625	4.995	8.0	NA	+/- 25.0	AverageRF	
1,3-Dichlorobenzene	50.0	51.11	1.713	1.752	2.2	NA	+/- 25.0	AverageRF	
4-Isopropyltoluene	50.0	50.88	3.671	3.736	1.8	NA	+/- 25.0	AverageRF	
1,4-Dichlorobenzene	50.0	51.70	1.680	1.737	3.4	NA	+/- 25.0	AverageRF	
n-Butylbenzene	50.0	49.71	2.782	2.765	-0.6	NA	+/- 25.0	AverageRF	
1,2-Dichlorobenzene	50.0	51.59	1.449	1.495	3.2	NA	+/- 25.0	AverageRF	
1,2-Dibromo-3-chloropropane (DBCP)	200.0	197.4	0.145	0.143	-1.3	NA	+/- 25.0	AverageRF	
1,2,4-Trichlorobenzene	50.0	52.72	0.968	1.020	5.4	NA	+/- 25.0	AverageRF	
Hexachlorobutadiene	50.0	50.47	0.586	0.591	0.9	NA	+/- 25.0	AverageRF	
Naphthalene	50.0	58.49	2.194	2.566	17.0	NA	+/- 25.0	AverageRF	
1,2,3-Trichlorobenzene	50.0	51.58	0.942	0.971	3.2	NA	+/- 25.0	AverageRF	
Dibromofluoromethane	N/A	N/A	0.276	0.275	0.0	NA	+/- 25.0	AverageRF	
1,2-Dichloroethane-d4	N/A	N/A	0.550	0.545	0.0	NA	+/- 25.0	AverageRF	
Toluene-d8	N/A	N/A	1.327	1.321	0.0	NA	+/- 25.0	AverageRF	
4-Bromofluorobenzene	N/A	N/A	1.409	1.414	0.0	NA	+/- 25.0	AverageRF	

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064377.D
Lab Smp Id: QCALTSTD5 Client Smp ID: QCALTSTD5
Inj Date : 18-OCT-2006 17:05
Operator : Reggie Inst ID: MSU.i
Smp Info : QCALTSTD5;QCALTSTD5
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\8260s5.m
Meth Date : 26-Oct-2006 09:00 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 16:41 Cal File: U064376.D
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * UF*Vo*Vt/(Ws*Va*((100-M)/100)) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Vo	10.000	Total MeOH
Vt	5.000	Volume Sample Purged
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)	
* 1 Fluorobenzene	96	6.435	6.435	(1.000)	1742043	50.0000		(a)
* 2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1174412	50.0000		(a)
* 3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	278250	50.0000		(a)
* 4 tert-Butanol-d10	65	3.205	3.215	(1.000)	759605	600.000		
$ 5 Dibromofluoromethane	113	5.564	5.564	(0.865)	478282	50.0000	49.70	
$ 6 1,2-Dichloroethane-d4	65	6.000	5.999	(0.587)	639974	50.0000	49.56	
$ 7 Toluene-d8	98	8.450	8.450	(0.827)	1551113	50.0000	49.77	
$ 8 Bromofluorobenzene	174	11.680	11.680	(0.892)	393533	50.0000	50.19	
9 Dichlorodifluoromethane	85	1.250	1.250	(0.194)	227549	50.0000	59.05	
10 Chloromethane	50	1.412	1.412	(0.220)	452610	50.0000	57.15	
11 Vinyl chloride	62	1.483	1.483	(0.231)	361754	50.0000	58.70	
12 Bromomethane	94	1.746	1.746	(0.271)	82015	50.0000	59.51	
13 Chloroethane	64	1.827	1.827	(0.284)	140677	50.0000	60.77	(Q)
14 Trichlorofluoromethane	101	2.060	2.050	(0.320)	447924	50.0000	59.15	
15 Dichlorotrifluoroethane	83	2.415	2.415	(0.375)	378324	50.0000	55.03	
16 1,1,2-Trichlorotrifluoroethane	101	2.546	2.546	(0.396)	278278	50.0000	56.53	
17 Acrolein	56	2.476	2.475	(0.385)	381334	500.000	550.0	(Q)
18 1,1-Dichloroethene	96	2.546	2.546	(0.396)	242230	50.0000	61.04	(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	19 Acetone	43	2.638	2.637	(0.410)	954757	250.000	252.4
	20 Iodomethane	142	2.708	2.708	(0.421)	245696	50.0000	54.16
	21 Carbon disulfide	76	2.769	2.759	(0.430)	698309	50.0000	54.85
	22 2-Propanol	45	2.830	2.830	(0.440)	905532	1250.00	1220
	23 Methylene chloride	84	3.093	3.093	(0.481)	234877	50.0000	52.98(Q)
	24 tert-Butanol	59	3.316	3.316	(1.035)	475426	500.000	495.7
	25 Acrylonitrile	53	3.438	3.437	(0.534)	2593094	500.000	554.2
	26 trans-1,2-Dichloroethene	96	3.417	3.417	(0.531)	376595	50.0000	57.38(Q)
	27 tert-Butylmethylether	73	3.448	3.448	(0.536)	1167532	50.0000	54.18(Q)
	28 Isopropylether	45	4.157	4.156	(0.646)	3131358	50.0000	50.86
	29 1,1-Dichloroethane	63	4.015	4.015	(0.624)	1031763	50.0000	53.08
	30 Vinyl acetate	43	4.146	4.146	(0.644)	2838840	50.0000	51.70
	31 tert-Butylethylether	59	4.693	4.693	(0.729)	2207174	50.0000	53.17
	32 2,2-Dichloropropane	77	4.855	4.855	(0.755)	627703	50.0000	57.37(Q)
	33 cis-1,2-Dichloroethene	96	4.875	4.875	(0.758)	512757	50.0000	55.18(Q)
M	34 1,2-Dichloroethene (total)	96				889352	50.0000	112.6
	35 2-Butanone	43	4.946	4.946	(0.769)	2177136	250.000	246.7
	36 Bromochloromethane	128	5.210	5.210	(0.810)	236857	50.0000	52.80(Q)
	37 Chloroform	83	5.341	5.341	(0.830)	807814	50.0000	52.24
	38 1,1,1-Trichloroethane	97	5.544	5.544	(0.862)	675385	50.0000	54.46
	39 1,1-Dichloropropene	75	5.777	5.777	(0.898)	596527	50.0000	54.66
	40 Carbon tetrachloride	119	5.767	5.756	(0.896)	556152	50.0000	57.86
	41 Benzene	78	6.050	6.050	(0.940)	1866851	50.0000	53.54(Q)
	42 tert-Amylmethylether	73	6.243	6.242	(0.970)	1383020	50.0000	52.50(Q)
	43 1,2-Dichloroethane	62	6.101	6.101	(0.948)	818324	50.0000	52.84
	44 Trichloroethene	95	6.911	6.911	(1.074)	525745	50.0000	54.62
	45 1,2-Dichloropropane	63	7.205	7.204	(1.120)	621032	50.0000	52.94
	46 1,4-Dioxane	88	7.417	7.417	(1.153)	63201	1250.00	1298(Q)
	47 Dibromomethane	93	7.346	7.346	(1.142)	294399	50.0000	52.44
	48 Bromodichloromethane	83	7.569	7.569	(1.176)	608777	50.0000	52.52
	49 2-Chloroethylvinyl ether	63	7.994	7.994	(1.242)	2511617	500.000	566.8
	50 cis-1,3-Dichloropropene	75	8.136	8.136	(1.264)	754869	50.0000	54.72
	51 4-Methyl-2-pentanone	58	8.359	8.359	(1.299)	1421133	250.000	254.3(Q)
	52 Toluene	92	8.531	8.531	(0.835)	1129899	50.0000	52.17
	53 trans-1,3-Dichloropropene	75	8.845	8.845	(0.865)	689776	50.0000	56.04
	54 1,1,2-Trichloroethane	83	9.058	9.057	(0.886)	335940	50.0000	52.55
	55 Tetrachloroethene	166	9.189	9.189	(0.899)	554491	50.0000	54.77
	56 1,3-Dichloropropane	76	9.260	9.260	(0.906)	740109	50.0000	52.57(Q)
	57 2-Hexanone	43	9.392	9.402	(0.919)	3041654	250.000	259.2
	58 Dibromochloromethane	129	9.523	9.533	(0.932)	486202	50.0000	55.15
	59 1,2-Dibromoethane	107	9.645	9.645	(0.944)	451477	50.0000	52.78
	60 1-Chlorohexane	91	10.253	10.263	(1.003)	611320	50.0000	52.56(Q)
	61 Chlorobenzene	112	10.253	10.252	(1.003)	1149596	50.0000	52.15
	62 1,1,1,2-Tetrachloroethane	131	10.364	10.374	(1.014)	483627	50.0000	54.80
	63 Ethylbenzene	91	10.404	10.404	(1.018)	1881370	50.0000	52.03
	64 m-,p-Xylene	106	10.556	10.556	(1.033)	1267220	100.000	104.5
	65 o-Xylene	106	11.032	11.032	(1.079)	628196	50.0000	52.60
M	66 Xylene (total)	106				1895416	150.000	157.1
	67 Styrene	104	11.053	11.062	(1.081)	1065382	50.0000	52.31
	68 Bromoform	173	11.275	11.275	(1.103)	261275	50.0000	56.50
	69 Isopropylbenzene	105	11.488	11.498	(1.124)	1755581	50.0000	52.83
	70 1,1,2,2-Tetrachloroethane	83	11.893	11.893	(0.908)	327794	50.0000	51.62
	71 Bromobenzene	156	11.842	11.842	(0.904)	407913	50.0000	52.03
	72 1,2,3-Trichloropropane	110	11.923	11.923	(0.910)	123189	50.0000	50.19(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
73	trans-1,4-Dichloro-2-butene	53	11.964	11.964	(0.913)	1610559	500.000	532.0(AQ)
74	n-Propylbenzene	120	12.004	12.004	(0.917)	418786	50.0000	54.36
75	5-Methyl-3-heptanone	57	12.713	12.014	(0.971)	1177540	250.000	156.0(QM)
76	2-Chlorotoluene	126	12.096	12.095	(0.923)	339840	50.0000	51.79(Q)
77	1,3,5-Trimethylbenzene	105	12.227	12.227	(0.934)	1084260	50.0000	52.38
78	4-Chlorotoluene	126	12.227	12.237	(0.934)	324094	50.0000	51.70(Q)
79	tert-Butylbenzene	119	12.622	12.622	(0.964)	1021548	50.0000	51.17
80	1,2,4-Trimethylbenzene	105	12.683	12.683	(0.968)	1006912	50.0000	52.09
81	sec-Butylbenzene	105	12.885	12.895	(0.984)	1389941	50.0000	54.00
82	1,3-Dichlorobenzene	146	13.007	13.007	(0.993)	487357	50.0000	51.11
83	p-Isopropyltoluene	119	13.078	13.078	(0.998)	1039493	50.0000	50.88
84	1,4-Dichlorobenzene	146	13.118	13.118	(1.002)	483218	50.0000	51.70
85	n-Butylbenzene	91	13.584	13.584	(1.037)	769479	50.0000	49.71
86	1,2-Dichlorobenzene	146	13.574	13.574	(1.036)	415940	50.0000	51.59
87	1,2-Dibromo-3-chloropropane	75	14.546	14.546	(1.111)	159483	200.000	197.4(Q)
88	1,2,4-Trichlorobenzene	180	15.559	15.559	(1.188)	283951	50.0000	52.72
89	Hexachlorobutadiene	225	15.781	15.781	(1.205)	164456	50.0000	50.47
90	Naphthalene	128	15.862	15.862	(1.211)	714119	50.0000	58.49
91	1,2,3-Trichlorobenzene	180	16.156	16.156	(1.233)	270229	50.0000	51.58
M 92	Total Chlorobenzenes	100				4534936	50.0000	421.6

non-target

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064377.D

Date : 18-OCT-2006 17:05

Client ID: QCALTSTD5

Instrument: MSU.i

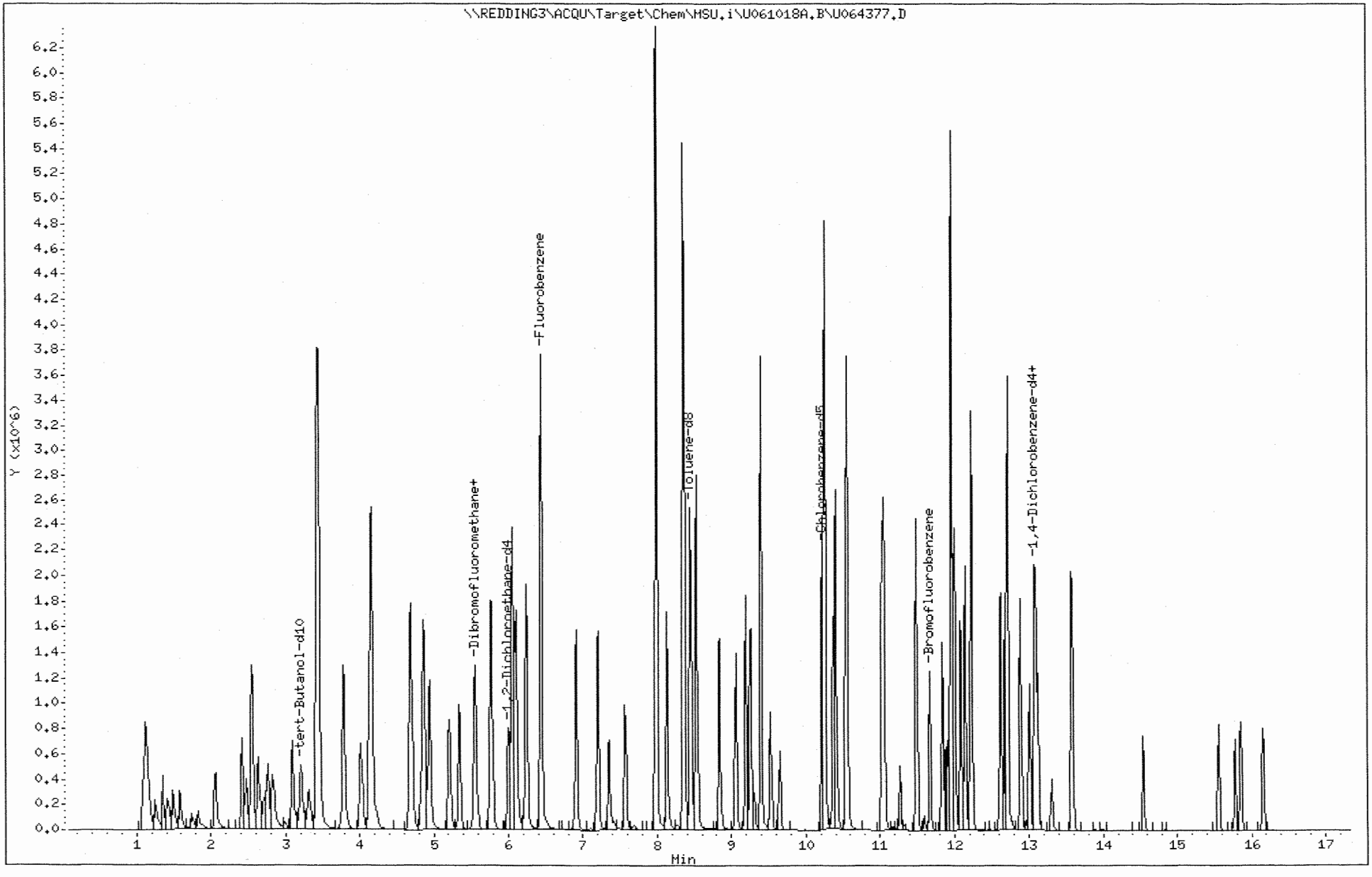
Sample Info: QCALTSTD5;QCALTSTD5

Purge Volume: 10.0

Operator: Reggie

Column phase: DB-624

Column diameter: 0.32



Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/20/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU
File ID: U064399

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
	Dichlorodifluoromethane	50.0	51.42	0.01	0.111	0.114	2.8	NA	+/- 40.0	AverageRF	
*	Chloromethane	50.0	53.34	0.10	0.227	0.243	6.7	NA	+/- 40.0	AverageRF	
#	Vinyl chloride	50.0	49.70	0.01	0.177	0.176	-0.6	NA	+/- 20.0	AverageRF	
	Bromomethane	50.0	52.06	0.01	0.040	0.041	4.0	NA	+/- 40.0	AverageRF	
	Chloroethane	50.0	53.65	0.01	0.066	0.071	7.4	NA	+/- 40.0	AverageRF	
	Trichlorofluoromethane	50.0	55.27	0.01	0.217	0.240	10.5	NA	+/- 40.0	AverageRF	
	1,1,2-Trichlorotrifluoroethane	50.0	53.20	0.01	0.141	0.150	6.4	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene	50.0	51.27	0.01	0.114	0.117	2.5	NA	+/- 20.0	AverageRF	
	Acetone	250.0	227.2	0.01	0.109	0.099	-9.1	NA	+/- 40.0	AverageRF	
	Carbon disulfide	50.0	51.17	0.01	0.365	0.374	2.3	NA	+/- 40.0	AverageRF	
	Methylene chloride	50.0	46.95	0.01	0.127	0.119	-6.1	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	50.0	54.49	0.01	0.188	0.205	9.0	NA	+/- 40.0	AverageRF	
	Tert-butylmethylether	50.0	49.36	0.01	0.618	0.610	-1.3	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane	50.0	48.17	0.10	0.558	0.537	-3.7	NA	+/- 40.0	AverageRF	
	Vinyl acetate	50.0	51.54	0.01	1.576	1.625	3.1	NA	+/- 40.0	AverageRF	
	2,2-Dichloropropane	50.0	54.45	0.01	0.314	0.342	8.9	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	50.0	48.22	0.01	0.267	0.257	-3.6	NA	+/- 40.0	AverageRF	
	2-Butanone	250.0	223.3	0.01	0.253	0.226	-10.7	NA	+/- 40.0	AverageRF	
	Bromochloromethane	50.0	48.47	0.01	0.129	0.125	-3.1	NA	+/- 40.0	AverageRF	
#	Chloroform	50.0	48.72	0.01	0.444	0.432	-2.6	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane	50.0	51.28	0.01	0.356	0.365	2.6	NA	+/- 40.0	AverageRF	
	1,1-Dichloropropene	50.0	50.09	0.01	0.313	0.314	0.2	NA	+/- 40.0	AverageRF	
	Carbon tetrachloride	50.0	54.81	0.01	0.276	0.302	9.6	NA	+/- 40.0	AverageRF	
	Benzene	50.0	48.12	0.01	1.001	0.963	-3.8	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane	50.0	46.97	0.01	0.445	0.418	-6.1	NA	+/- 40.0	AverageRF	
	Trichloroethene	50.0	49.57	0.01	0.276	0.274	-0.9	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	50.0	48.13	0.01	0.337	0.324	-3.7	NA	+/- 20.0	AverageRF	
	Dibromomethane	50.0	47.51	0.01	0.161	0.153	-5.0	NA	+/- 40.0	AverageRF	
	Bromodichloromethane	50.0	49.79	0.01	0.333	0.331	-0.4	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	50.0	50.84	0.01	0.396	0.403	1.7	NA	+/- 40.0	AverageRF	
	4-methyl-2-pentanone	250.0	229.1	0.01	0.160	0.147	-8.4	NA	+/- 40.0	AverageRF	
#	Toluene	50.0	48.49	0.01	0.922	0.894	-3.0	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	50.0	51.47	0.01	0.524	0.539	2.9	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	50.0	46.77	0.01	0.272	0.255	-6.5	NA	+/- 40.0	AverageRF	
	Tetrachloroethene	50.0	51.52	0.01	0.431	0.444	3.0	NA	+/- 40.0	AverageRF	
	1,3-Dichloropropane	50.0	46.81	0.01	0.599	0.561	-6.4	NA	+/- 40.0	AverageRF	
	2-Hexanone	250.0	235.5	0.01	0.500	0.471	-5.8	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	50.0	51.43	0.01	0.375	0.386	2.8	NA	+/- 40.0	AverageRF	
	1,2-Dibromoethane	50.0	47.08	0.01	0.364	0.343	-5.8	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/20/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 10/18/2006MSU
Instrument ID: MSU
File ID: U064399

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chlorobenzene	50.0	48.56	0.30	0.938	0.912	-2.9	NA	+/- 40.0	AverageRF	
	1,1,1,2-Tetrachloroethane	50.0	52.58	0.01	0.376	0.395	5.2	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	50.0	48.77	0.01	1.539	1.502	-2.4	NA	+/- 20.0	AverageRF	
	Xylene (total)	N/A	N/A	0.01	0.514	0.502	-2.2	NA	+/- 40.0	AverageRF	
	Styrene	50.0	48.74	0.01	0.867	0.845	-2.5	NA	+/- 40.0	AverageRF	
*	Bromoform	50.0	55.02	0.10	0.197	0.217	10.0	NA	+/- 40.0	AverageRF	
	Isopropylbenzene	50.0	49.83	0.01	1.415	1.410	-0.3	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	50.0	47.54	0.30	1.141	1.085	-4.9	NA	+/- 40.0	AverageRF	
	Bromobenzene	50.0	48.35	0.01	1.409	1.362	-3.3	NA	+/- 40.0	AverageRF	
	1,2,3-Trichloropropane	50.0	46.43	0.01	0.441	0.410	-7.1	NA	+/- 40.0	AverageRF	
	n-Propylbenzene	50.0	48.55	0.01	1.384	1.344	-2.9	NA	+/- 40.0	AverageRF	
	2-Chlorotoluene	50.0	48.25	0.01	1.179	1.138	-3.5	NA	+/- 40.0	AverageRF	
	1,3,5-Trimethylbenzene	50.0	48.73	0.01	3.719	3.625	-2.5	NA	+/- 40.0	AverageRF	
	4-Chlorotoluene	50.0	48.95	0.01	1.126	1.103	-2.1	NA	+/- 40.0	AverageRF	
	tert-Butylbenzene	50.0	47.39	0.01	3.588	3.400	-5.2	NA	+/- 40.0	AverageRF	
	1,2,4-Trimethylbenzene	50.0	47.93	0.01	3.473	3.329	-4.1	NA	+/- 40.0	AverageRF	
	sec-Butylbenzene	50.0	48.23	0.01	4.625	4.461	-3.5	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	50.0	49.02	0.01	1.713	1.680	-2.0	NA	+/- 40.0	AverageRF	
	p-Isopropyltoluene	50.0	48.93	0.01	3.671	3.592	-2.1	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	50.0	49.18	0.01	1.680	1.652	-1.6	NA	+/- 40.0	AverageRF	
	n-Butylbenzene	50.0	50.56	0.01	2.782	2.813	1.1	NA	+/- 40.0	AverageRF	
	1,2-Dichlorobenzene	50.0	47.97	0.01	1.449	1.390	-4.0	NA	+/- 40.0	AverageRF	
	1,2-Dibromo-3-chloropropane	200.0	178.0	0.01	0.145	0.129	-11.0	NA	+/- 40.0	AverageRF	
	1,2,4-Trichlorobenzene	50.0	51.18	0.01	0.968	0.991	2.4	NA	+/- 40.0	AverageRF	
	Hexachlorobutadiene	50.0	50.83	0.01	0.586	0.595	1.6	NA	+/- 40.0	AverageRF	
	Naphthalene	50.0	46.23	0.01	2.194	2.028	-7.5	NA	+/- 40.0	AverageRF	
	1,2,3-Trichlorobenzene	50.0	47.75	0.01	0.942	0.899	-4.5	NA	+/- 40.0	AverageRF	
	Dibromofluoromethane	50.0	47.26	0.01	0.276	0.261	-5.5	NA	+/- 40.0	AverageRF	
	1,2-dichloroethane-d4	50.0	45.23	0.01	0.550	0.497	-9.5	NA	+/- 40.0	AverageRF	
	Toluene-d8	50.0	46.26	0.01	1.327	1.228	-7.5	NA	+/- 40.0	AverageRF	
	Bromofluorobenzene	50.0	46.36	0.01	1.409	1.306	-7.3	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064399.D
Lab Smp Id: VSTD50E Client Smp ID: VSTD50E
Inj Date : 20-OCT-2006 12:13
Operator : Reggie Inst ID: MSU.i
Smp Info : VSTD50E;VSTD50E
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\8260s5.m
Meth Date : 26-Oct-2006 09:35 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 16:41 Cal File: U064376.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: RDD-MS-3

Concentration Formula: Amt * DF * UF*Vo*Vt/(Ws*Va*((100-M)/100)) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Vo	10.000	Total MeOH
Vt	5.000	Volume Sample Purged
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)	
*	1 Fluorobenzene	96	6.435	6.435	(1.000)	1751763	50.0000		(a)
*	2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1207338	50.0000		(a)
*	3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	294197	50.0000		(a)
*	4 tert-Butanol-d10	65	3.204	3.215	(1.000)	733040	600.000		
$	5 Dibromofluoromethane	113	5.564	5.564	(0.865)	457344	50.0000	47.26	
$	6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	600480	50.0000	45.23	
$	7 Toluene-d8	98	8.450	8.450	(0.827)	1482274	50.0000	46.26	
$	8 Bromofluorobenzene	174	11.680	11.680	(0.892)	384353	50.0000	46.36	
	9 Dichlorodifluoromethane	85	1.250	1.250	(0.194)	199256	50.0000	51.42	
	10 Chloromethane	50	1.412	1.412	(0.220)	424816	50.0000	53.34	
	11 Vinyl chloride	62	1.483	1.483	(0.231)	307945	50.0000	49.70	
	12 Bromomethane	94	1.746	1.746	(0.271)	72147	50.0000	52.06	
	13 Chloroethane	64	1.827	1.827	(0.284)	124883	50.0000	53.64	(Q)
	14 Trichlorofluoromethane	101	2.050	2.050	(0.319)	420906	50.0000	55.27	
	15 Dichlorotrifluoroethane	83	2.415	2.415	(0.375)	349018	50.0000	50.49	
	16 1,1,2-Trichlorotrifluoroethane	101	2.546	2.546	(0.396)	263354	50.0000	53.20	
	17 Acrolein	56	2.475	2.475	(0.385)	321786	500.000	461.5	(Q)
	18 1,1-Dichloroethene	96	2.546	2.546	(0.396)	204592	50.0000	51.27	(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	19 Acetone	43	2.637	2.637	(0.410)	864129	250.000	227.2
	20 Iodomethane	142	2.708	2.708	(0.421)	234454	50.0000	51.39
	21 Carbon disulfide	76	2.759	2.759	(0.429)	655075	50.0000	51.17
	22 2-Propanol	45	2.830	2.830	(0.440)	848592	1250.00	1137
	23 Methylene chloride	84	3.093	3.093	(0.481)	209285	50.0000	46.95(Q)
	24 tert-Butanol	59	3.316	3.316	(1.035)	434995	500.000	469.9
	25 Acrylonitrile	53	3.427	3.437	(0.533)	2228412	500.000	473.6
	26 trans-1,2-Dichloroethene	96	3.417	3.417	(0.531)	359623	50.0000	54.49(Q)
	27 tert-Butylmethylether	73	3.437	3.448	(0.534)	1069382	50.0000	49.36(Q)
	28 Isopropylether	45	4.156	4.156	(0.646)	3011563	50.0000	48.64
	29 1,1-Dichloroethane	63	4.015	4.015	(0.624)	941453	50.0000	48.17
	30 Vinyl acetate	43	4.146	4.146	(0.644)	2845761	50.0000	51.54
	31 tert-Butylethylether	59	4.693	4.693	(0.729)	2007755	50.0000	48.09
	32 2,2-Dichloropropane	77	4.855	4.855	(0.755)	599070	50.0000	54.45(Q)
	33 cis-1,2-Dichloroethene	96	4.875	4.875	(0.758)	450577	50.0000	48.22(Q)
M	34 1,2-Dichloroethene (total)	96				810200	50.0000	102.7
	35 2-Butanone	43	4.946	4.946	(0.769)	1981729	250.000	223.3
	36 Bromochloromethane	128	5.209	5.210	(0.810)	218641	50.0000	48.47(Q)
	37 Chloroform	83	5.341	5.341	(0.830)	757618	50.0000	48.72
	38 1,1,1-Trichloroethane	97	5.544	5.544	(0.862)	639406	50.0000	51.28
	39 1,1-Dichloropropene	75	5.777	5.777	(0.898)	549647	50.0000	50.09
	40 Carbon tetrachloride	119	5.756	5.756	(0.895)	529723	50.0000	54.81
	41 Benzene	78	6.050	6.050	(0.940)	1687080	50.0000	48.12(Q)
	42 tert-Amylmethylether	73	6.242	6.242	(0.970)	1274380	50.0000	48.11(Q)
	43 1,2-Dichloroethane	62	6.101	6.101	(0.948)	731471	50.0000	46.97
	44 Trichloroethene	95	6.911	6.911	(1.074)	479715	50.0000	49.57
	45 1,2-Dichloropropane	63	7.194	7.204	(1.118)	567821	50.0000	48.13(Q)
	46 1,4-Dioxane	88	7.407	7.417	(1.151)	56594	1250.00	1156(Q)
	47 Dibromomethane	93	7.346	7.346	(1.142)	268252	50.0000	47.51
	48 Bromodichloromethane	83	7.569	7.569	(1.176)	580326	50.0000	49.79
	49 2-Chloroethylvinyl ether	63	7.984	7.994	(1.241)	1999353	500.000	448.7
	50 cis-1,3-Dichloropropene	75	8.136	8.136	(1.264)	705263	50.0000	50.84
	51 4-Methyl-2-pentanone	58	8.359	8.359	(1.299)	1287311	250.000	229.1(Q)
	52 Toluene	92	8.531	8.531	(0.835)	1079485	50.0000	48.49
	53 trans-1,3-Dichloropropene	75	8.845	8.845	(0.865)	651253	50.0000	51.47
	54 1,1,2-Trichloroethane	83	9.057	9.057	(0.886)	307376	50.0000	46.77
	55 Tetrachloroethene	166	9.189	9.189	(0.899)	536182	50.0000	51.52
	56 1,3-Dichloropropane	76	9.260	9.260	(0.906)	677446	50.0000	46.81(Q)
	57 2-Hexanone	43	9.392	9.402	(0.919)	2841847	250.000	235.5
	58 Dibromochloromethane	129	9.523	9.533	(0.932)	466125	50.0000	51.43
	59 1,2-Dibromoethane	107	9.645	9.645	(0.944)	414015	50.0000	47.08
	60 1-Chlorohexane	91	10.252	10.263	(1.003)	606679	50.0000	50.74(Q)
	61 Chlorobenzene	112	10.252	10.252	(1.003)	1100507	50.0000	48.56
	62 1,1,1,2-Tetrachloroethane	131	10.364	10.374	(1.014)	477108	50.0000	52.58
	63 Ethylbenzene	91	10.404	10.404	(1.018)	1812838	50.0000	48.77
	64 m-,p-Xylene	106	10.556	10.556	(1.033)	1220778	100.000	97.93
	65 o-Xylene	106	11.032	11.032	(1.079)	598998	50.0000	48.79
M	66 Xylene (total)	106				1819776	150.000	146.7
	67 Styrene	104	11.052	11.062	(1.081)	1020424	50.0000	48.74
	68 Bromoform	173	11.275	11.275	(1.103)	261571	50.0000	55.02
	69 Isopropylbenzene	105	11.488	11.498	(1.124)	1702208	50.0000	49.83
	70 1,1,2,2-Tetrachloroethane	83	11.893	11.893	(0.908)	319217	50.0000	47.54
	71 Bromobenzene	156	11.842	11.842	(0.904)	400769	50.0000	48.34
	72 1,2,3-Trichloropropane	110	11.923	11.923	(0.910)	120477	50.0000	46.43(Q)

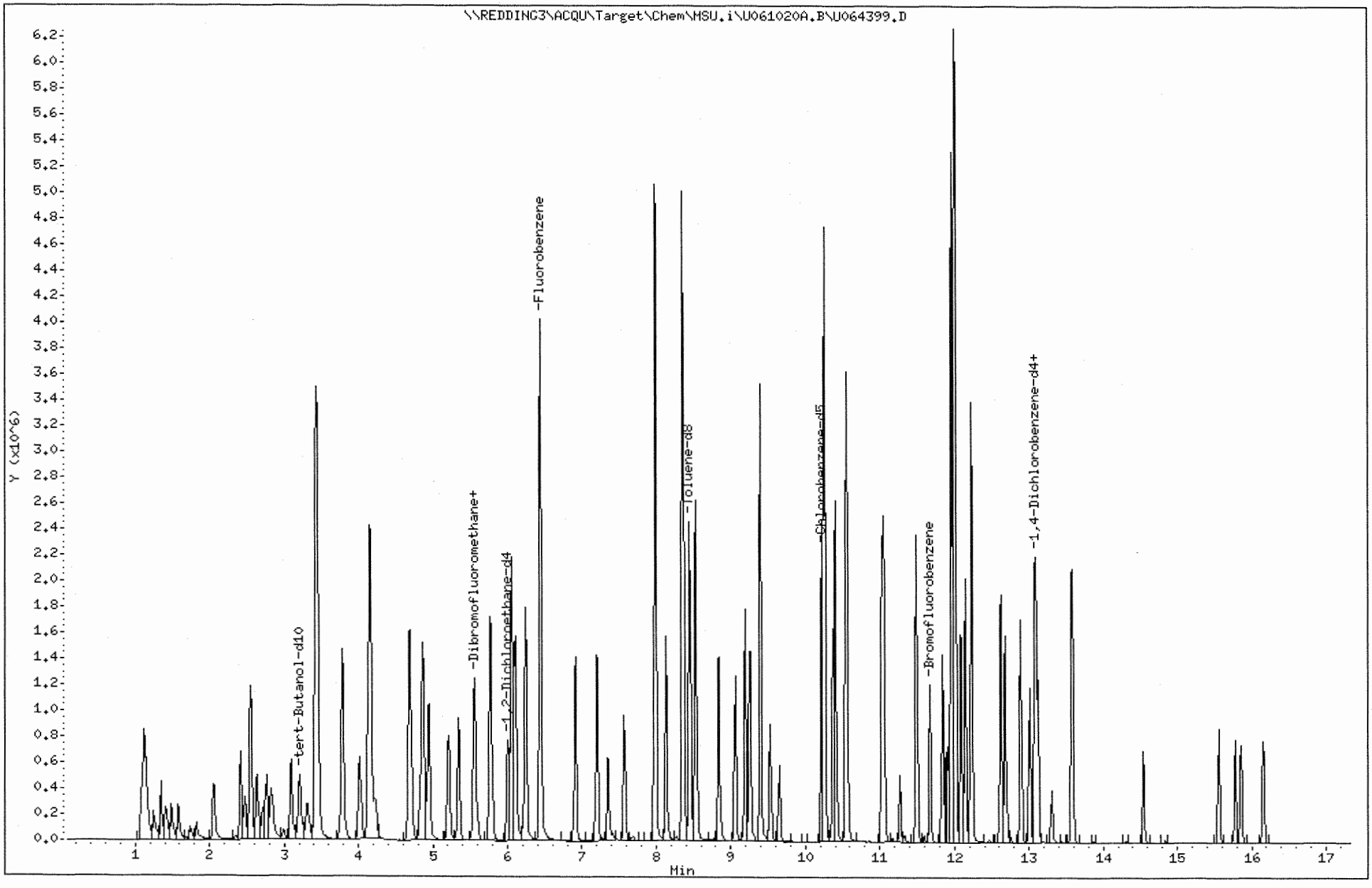
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
73	trans-1,4-Dichloro-2-butene	53	11.964	11.964	(0.913)	1607513	500.000	502.2(AQ)
74	n-Propylbenzene	120	12.004	12.004	(0.917)	395414	50.0000	48.54
75	5-Methyl-3-heptanone	57	12.014	12.014	(0.917)	1823501	250.000	228.5(Q)
76	2-Chlorotoluene	126	12.095	12.095	(0.923)	334763	50.0000	48.25(Q)
77	1,3,5-Trimethylbenzene	105	12.227	12.227	(0.934)	1066491	50.0000	48.73
78	4-Chlorotoluene	126	12.227	12.237	(0.934)	324455	50.0000	48.95(Q)
79	tert-Butylbenzene	119	12.622	12.622	(0.964)	1000376	50.0000	47.39
80	1,2,4-Trimethylbenzene	105	12.683	12.683	(0.968)	979454	50.0000	47.93
81	sec-Butylbenzene	105	12.885	12.895	(0.984)	1312538	50.0000	48.23
82	1,3-Dichlorobenzene	146	13.007	13.007	(0.993)	494229	50.0000	49.02
83	p-Isopropyltoluene	119	13.078	13.078	(0.998)	1056891	50.0000	48.93
84	1,4-Dichlorobenzene	146	13.118	13.118	(1.002)	486039	50.0000	49.18
85	n-Butylbenzene	91	13.584	13.584	(1.037)	827582	50.0000	50.56
86	1,2-Dichlorobenzene	146	13.574	13.574	(1.036)	408984	50.0000	47.97
87	1,2-Dibromo-3-chloropropane	75	14.546	14.546	(1.111)	152011	200.000	178.0(Q)
88	1,2,4-Trichlorobenzene	180	15.558	15.559	(1.188)	291405	50.0000	51.18
89	Hexachlorobutadiene	225	15.781	15.781	(1.205)	175111	50.0000	50.83
90	Naphthalene	128	15.862	15.862	(1.211)	596705	50.0000	46.23
91	1,2,3-Trichlorobenzene	180	16.156	16.156	(1.233)	264506	50.0000	47.75
M 92	Total Chlorobenzenes	100				4402186	50.0000	396.0

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064399.D
Date : 20-OCT-2006 12:13
Client ID: VSTD50E
Sample Info: VSTD50E;VSTD50E
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: Reggie
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/26/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK
File ID: K067909

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
	Dichlorodifluoromethane	10.0	8.235	0.01	0.166	0.136	-17.6	NA	+/- 40.0	AverageRF	
*	Chloromethane	10.0	8.697	0.10	0.162	0.141	-13.0	NA	+/- 40.0	AverageRF	
#	Vinyl chloride	10.0	9.421	0.01	0.197	0.186	-5.8	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	8.327	0.01	0.155	0.129	-16.7	NA	+/- 40.0	AverageRF	
	Chloroethane	10.0	9.587	0.01	0.106	0.102	-4.1	NA	+/- 40.0	AverageRF	
	Trichlorofluoromethane	10.0	9.907	0.01	0.242	0.240	-0.9	NA	+/- 40.0	AverageRF	
	1,1,2-Trichlorotrifluoroethane	10.0	9.714	0.01	0.228	0.221	-2.9	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene	10.0	9.476	0.01	0.193	0.183	-5.2	NA	+/- 20.0	AverageRF	
	Acetone	50.0	44.84	0.01	0.067	0.050	NA	-10.3	+/- 40.0	Linear	
	Carbon disulfide	10.0	9.450	0.01	0.877	0.829	-5.5	NA	+/- 40.0	AverageRF	
	Methylene chloride	10.0	9.213	0.01	0.305	0.281	-7.9	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	9.921	0.01	0.248	0.246	-0.8	NA	+/- 40.0	AverageRF	
	Tert-butylmethylether	10.0	9.472	0.01	0.543	0.515	-5.3	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane	10.0	10.21	0.10	0.490	0.501	2.1	NA	+/- 40.0	AverageRF	
	Vinyl acetate	10.0	8.766	0.01	0.923	0.809	-12.3	NA	+/- 40.0	AverageRF	
	2,2-Dichloropropane	10.0	7.767	0.01	0.357	0.277	-22.3	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	9.798	0.01	0.277	0.271	-2.0	NA	+/- 40.0	AverageRF	
	2-Butanone	50.0	43.42	0.01	0.098	0.080	NA	-13.2	+/- 40.0	Linear	
	Bromochloromethane	10.0	9.465	0.01	0.150	0.142	-5.3	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	9.892	0.01	0.517	0.512	-1.1	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane	10.0	9.550	0.01	0.348	0.332	-4.5	NA	+/- 40.0	AverageRF	
	1,1-Dichloropropene	10.0	9.862	0.01	0.335	0.331	-1.4	NA	+/- 40.0	AverageRF	
	Carbon tetrachloride	10.0	9.671	0.01	0.272	0.263	-3.3	NA	+/- 40.0	AverageRF	
	Benzene	10.0	9.762	0.01	1.073	1.047	-2.4	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane	10.0	9.513	0.01	0.360	0.342	-4.9	NA	+/- 40.0	AverageRF	
	Trichloroethene	10.0	9.192	0.01	0.285	0.262	-8.1	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	9.664	0.01	0.299	0.289	-3.4	NA	+/- 20.0	AverageRF	
	Dibromomethane	10.0	9.220	0.01	0.184	0.169	-7.8	NA	+/- 40.0	AverageRF	
	Bromodichloromethane	10.0	9.543	0.01	0.382	0.365	-4.6	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	9.079	0.01	0.444	0.403	-9.2	NA	+/- 40.0	AverageRF	
	4-methyl-2-pentanone	50.0	43.82	0.01	0.231	0.202	-12.4	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	9.944	0.01	0.985	0.980	-0.6	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	9.383	0.01	0.630	0.591	-6.2	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	9.839	0.01	0.341	0.336	-1.6	NA	+/- 40.0	AverageRF	
	Tetrachloroethene	10.0	9.874	0.01	0.487	0.481	-1.2	NA	+/- 40.0	AverageRF	
	1,3-Dichloropropane	10.0	10.19	0.01	0.637	0.649	1.9	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	49.67	0.01	0.224	0.222	-0.7	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	10.0	9.866	0.01	0.461	0.455	-1.3	NA	+/- 40.0	AverageRF	
	1,2-Dibromoethane	10.0	9.399	0.01	0.385	0.362	-6.0	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/26/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 10/13/2006MSK
Instrument ID: MSK
File ID: K067909

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chlorobenzene	10.0	9.651	0.30	1.049	1.013	-3.5	NA	+/- 40.0	AverageRF	
	1,1,1,2-Tetrachloroethane	10.0	9.963	0.01	0.424	0.422	-0.4	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	9.797	0.01	1.527	1.496	-2.0	NA	+/- 20.0	AverageRF	
	Xylene (total)	30.0	29.39	0.01	0.489	0.479	-2.1	NA	+/- 40.0	AverageRF	
	Styrene	10.0	9.927	0.01	0.801	0.795	-0.7	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	9.313	0.10	0.242	0.225	-6.9	NA	+/- 40.0	AverageRF	
	Isopropylbenzene	10.0	9.875	0.01	1.161	1.147	-1.2	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	10.43	0.30	1.049	0.970	NA	4.3	+/- 40.0	Linear	
	Bromobenzene	10.0	10.37	0.01	1.178	1.131	NA	3.7	+/- 40.0	Linear	
	1,2,3-Trichloropropane	10.0	10.23	0.01	0.250	0.221	NA	2.3	+/- 40.0	Linear	
	n-Propylbenzene	10.0	9.751	0.01	0.876	0.854	-2.5	NA	+/- 40.0	AverageRF	
	2-Chlorotoluene	10.0	10.24	0.01	0.856	0.877	2.4	NA	+/- 40.0	AverageRF	
	1,3,5-Trimethylbenzene	10.0	9.817	0.01	2.468	2.422	-1.8	NA	+/- 40.0	AverageRF	
	4-Chlorotoluene	10.0	10.00	0.01	0.866	0.866	0.0	NA	+/- 40.0	AverageRF	
	tert-Butylbenzene	10.0	10.41	0.01	2.251	2.343	4.1	NA	+/- 40.0	AverageRF	
	1,2,4-Trimethylbenzene	10.0	10.46	0.01	2.308	2.415	4.6	NA	+/- 40.0	AverageRF	
	sec-Butylbenzene	10.0	10.32	0.01	2.788	2.879	3.2	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	10.06	0.01	1.682	1.692	0.6	NA	+/- 40.0	AverageRF	
	p-Isopropyltoluene	10.0	10.26	0.01	2.292	2.351	2.6	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	9.805	0.01	1.770	1.735	-1.9	NA	+/- 40.0	AverageRF	
	n-Butylbenzene	10.0	10.21	0.01	2.283	2.332	2.1	NA	+/- 40.0	AverageRF	
	1,2-Dichlorobenzene	10.0	10.07	0.01	1.521	1.532	0.7	NA	+/- 40.0	AverageRF	
	1,2-Dibromo-3-chloropropane	40.0	40.55	0.01	0.124	0.116	NA	1.4	+/- 40.0	Linear	
	1,2,4-Trichlorobenzene	10.0	9.181	0.01	0.911	0.837	-8.2	NA	+/- 40.0	AverageRF	
	Hexachlorobutadiene	10.0	9.702	0.01	0.470	0.456	-3.0	NA	+/- 40.0	AverageRF	
	Naphthalene	10.0	8.728	0.01	1.453	1.337	NA	-12.7	+/- 40.0	Linear	
	1,2,3-Trichlorobenzene	10.0	9.302	0.01	0.818	0.761	-7.0	NA	+/- 40.0	AverageRF	
	Dibromofluoromethane	10.0	10.15	0.01	0.291	0.295	1.5	NA	+/- 40.0	AverageRF	
	1,2-dichloroethane-d4	10.0	9.238	0.01	0.297	0.275	-7.6	NA	+/- 40.0	AverageRF	
	Toluene-d8	10.0	10.38	0.01	1.302	1.351	3.8	NA	+/- 40.0	AverageRF	
	Bromofluorobenzene	10.0	9.958	0.01	0.999	0.995	-0.4	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067909.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 26-OCT-2006 02:05
Operator : X Inst ID: MSK.i
Smp Info : VSTD010;VSTD010
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	9.733	9.733	(1.000)	2162167	10.0000	
*	2 Chlorobenzene-d5	117	13.065	13.065	(1.000)	1226906	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.668	15.668	(1.000)	411638	10.0000	
$	4 Dibromofluoromethane	113	8.930	8.930	(0.917)	637988	10.0000	10.2
$	5 1,2-Dichloroethane-d4	65	9.331	9.331	(0.959)	593658	10.0000	9.24
$	6 Toluene-d8	98	11.473	11.473	(0.878)	1657456	10.0000	10.4
$	7 Bromofluorobenzene	174	14.329	14.329	(0.915)	409581	10.0000	9.96
	8 Dichlorodifluoromethane	85	3.531	3.531	(0.363)	295020	10.0000	8.23(Q)
	10 Chloromethane	50	3.873	3.873	(0.398)	304343	10.0000	8.70
	11 Vinyl chloride	62	4.081	4.081	(0.419)	401374	10.0000	9.42
	12 Bromomethane	94	4.691	4.691	(0.482)	279941	10.0000	8.33
	13 Chloroethane	64	4.854	4.854	(0.499)	220737	10.0000	9.59
	14 Trichlorofluoromethane	101	5.301	5.301	(0.545)	518786	10.0000	9.91
	15 1,1,2-Trichlorotrifluoroethane	101	6.089	6.089	(0.626)	478385	10.0000	9.71
	17 1,1-Dichloroethene	96	6.104	6.104	(0.627)	395987	10.0000	9.48
	18 Acetone	43	6.119	6.119	(0.629)	535518	50.0000	44.8
	21 Carbon disulfide	76	6.490	6.490	(0.667)	1791357	10.0000	9.45
	22 Methylene chloride	84	6.758	6.758	(0.694)	607457	10.0000	9.21
	26 trans-1,2-Dichloroethene	96	7.145	7.145	(0.734)	531928	10.0000	9.92
	27 tert-Butylmethylether	73	7.130	7.130	(0.733)	1112588	10.0000	9.47(Q)
	28 1,1-Dichloroethane	63	7.680	7.680	(0.789)	1082461	10.0000	10.2
	30 Vinyl acetate	43	7.680	7.680	(0.789)	1749177	10.0000	8.77(a)

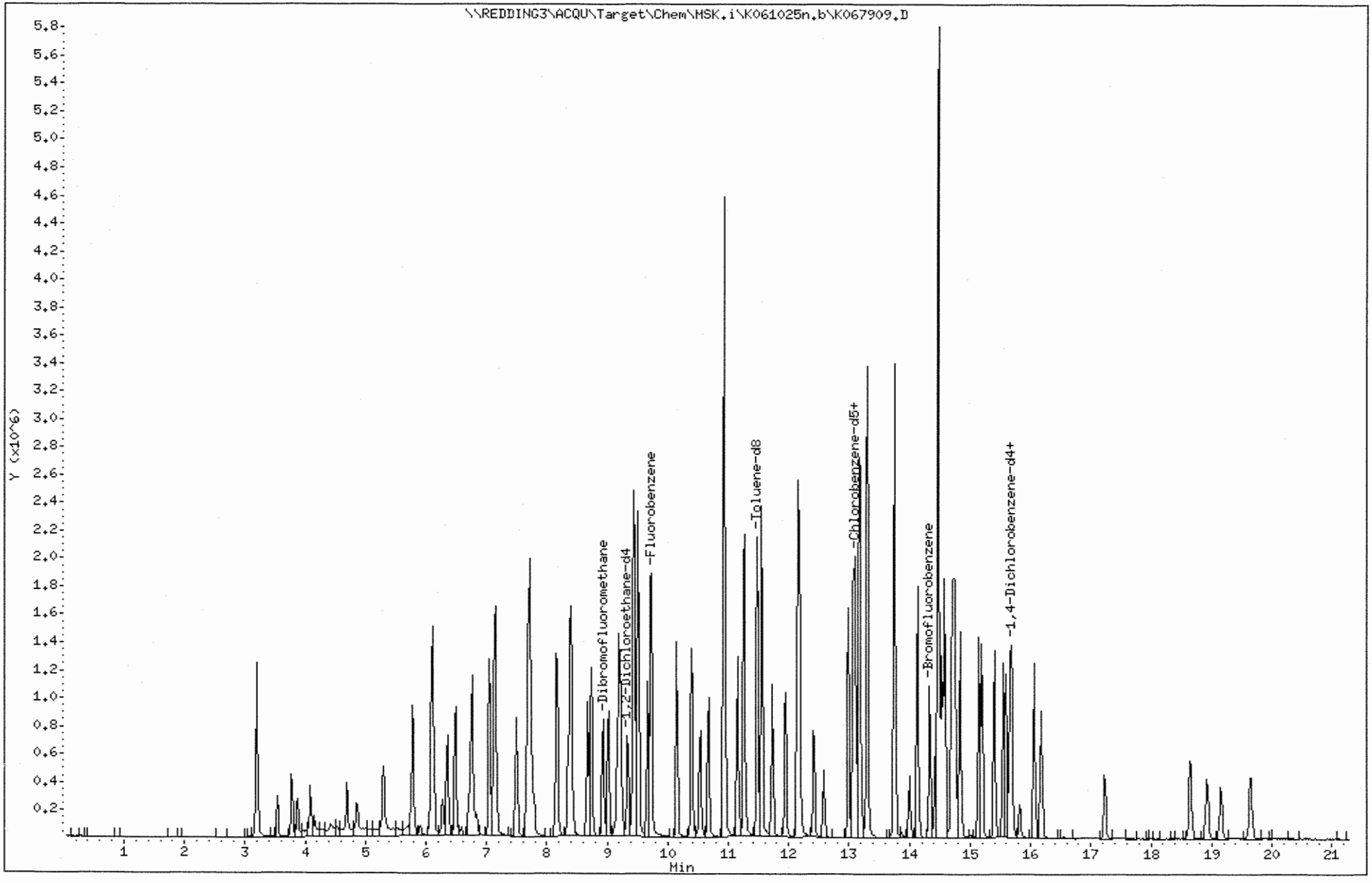
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
32	2,2-Dichloropropane	77	8.409	8.409	(0.864)	599894	10.0000	7.77(Q)
33	cis-1,2-Dichloroethene	96	8.379	8.379	(0.861)	586386	10.0000	9.80
35	2-Butanone	43	8.350	8.350	(0.858)	865001	50.0000	43.4
36	Bromochloromethane	128	8.677	8.677	(0.892)	307807	10.0000	9.46
37	Chloroform	83	8.736	8.736	(0.898)	1106387	10.0000	9.89
38	1,1,1-Trichloroethane	97	9.019	9.019	(0.927)	718600	10.0000	9.55(Q)
40	1,1-Dichloropropene	75	9.197	9.197	(0.945)	715122	10.0000	9.86
41	Carbon tetrachloride	119	9.227	9.227	(0.948)	567767	10.0000	9.67
43	Benzene	78	9.435	9.435	(0.969)	2264482	10.0000	9.76
44	1,2-Dichloroethane	62	9.421	9.421	(0.968)	739695	10.0000	9.51
45	Trichloroethene	95	10.149	10.149	(1.043)	565906	10.0000	9.19
46	1,2-Dichloropropane	63	10.387	10.387	(1.067)	624702	10.0000	9.66
48	Dibromomethane	93	10.536	10.536	(1.083)	366000	10.0000	9.22
49	Bromodichloromethane	83	10.670	10.670	(1.096)	788481	10.0000	9.54
51	cis-1,3-Dichloropropene	75	11.146	11.146	(1.145)	871150	10.0000	9.08
52	4-Methyl-2-pentanone	43	11.265	11.265	(1.157)	2188616	50.0000	43.8
53	Toluene	92	11.548	11.548	(0.884)	1202315	10.0000	9.94
54	trans-1,3-Dichloropropene	75	11.726	11.726	(0.898)	725658	10.0000	9.38
55	1,1,2-Trichloroethane	83	11.949	11.949	(0.915)	411937	10.0000	9.84
56	Tetrachloroethene	166	12.172	12.172	(0.932)	589668	10.0000	9.87
57	1,3-Dichloropropane	76	12.143	12.143	(0.929)	796134	10.0000	10.2
58	2-Hexanone	43	12.157	12.157	(0.931)	1362107	50.0000	49.7
59	Dibromochloromethane	129	12.410	12.410	(0.950)	558301	10.0000	9.87
60	1,2-Dibromoethane	107	12.574	12.574	(0.962)	443616	10.0000	9.40
62	Chlorobenzene	112	13.109	13.109	(1.003)	1242622	10.0000	9.65(Q)
63	1,1,1,2-Tetrachloroethane	131	13.169	13.169	(1.008)	518124	10.0000	9.96
64	Ethylbenzene	91	13.184	13.184	(1.009)	1835778	10.0000	9.80
65	m-,p-Xylene	106	13.303	13.303	(1.018)	1188998	20.0000	19.3
66	o-Xylene	106	13.749	13.749	(1.052)	572502	10.0000	10.1
M 67	Xylene (total)	106				1761500	30.0000	29.4
68	Styrene	104	13.749	13.749	(1.052)	975163	10.0000	9.93
69	Bromoform	173	14.002	14.002	(1.072)	276004	10.0000	9.31
70	Isopropylbenzene	105	14.136	14.136	(1.082)	1406773	10.0000	9.87
71	1,1,2,2-Tetrachloroethane	83	14.418	14.418	(0.920)	399325	10.0000	10.4
72	Bromobenzene	156	14.537	14.537	(0.928)	465481	10.0000	10.4
73	1,2,3-Trichloropropane	110	14.508	14.508	(0.926)	91144	10.0000	10.2(Q)
74	n-Propylbenzene	120	14.582	14.582	(0.931)	351727	10.0000	9.75
76	2-Chlorotoluene	126	14.731	14.731	(0.940)	361094	10.0000	10.2
78	1,3,5-Trimethylbenzene	105	14.760	14.760	(0.942)	997155	10.0000	9.82(Q)
79	4-Chlorotoluene	126	14.835	14.835	(0.947)	356615	10.0000	10.0
80	tert-Butylbenzene	119	15.147	15.147	(0.967)	964537	10.0000	10.4
81	1,2,4-Trimethylbenzene	105	15.192	15.192	(0.970)	994054	10.0000	10.5
82	sec-Butylbenzene	105	15.400	15.400	(0.983)	1185041	10.0000	10.3
83	1,3-Dichlorobenzene	146	15.593	15.593	(0.995)	696562	10.0000	10.0
84	p-Isopropyltoluene	119	15.549	15.549	(0.992)	967882	10.0000	10.2
85	1,4-Dichlorobenzene	146	15.697	15.697	(1.002)	714362	10.0000	9.80
87	n-Butylbenzene	91	16.054	16.054	(1.025)	959894	10.0000	10.2
88	1,2-Dichlorobenzene	146	16.188	16.188	(1.033)	630682	10.0000	10.1
89	1,2-Dibromo-3-chloropropane	75	17.229	17.229	(1.100)	191724	40.0000	40.5(Q)
90	1,2,4-Trichlorobenzene	180	18.657	18.657	(1.191)	344449	10.0000	9.18
91	Hexachlorobutadiene	225	18.925	18.925	(1.208)	187869	10.0000	9.70
92	Naphthalene	128	19.148	19.148	(1.222)	550551	10.0000	8.73
93	1,2,3-Trichlorobenzene	180	19.654	19.654	(1.254)	313364	10.0000	9.30

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067909.D
Date : 26-OCT-2006 02:05
Client ID: VSTD010
Sample Info: VSTD010;VSTD010
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Raw Data

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067553.D

Date : 13-OCT-2006 08:34

Client ID: BFB

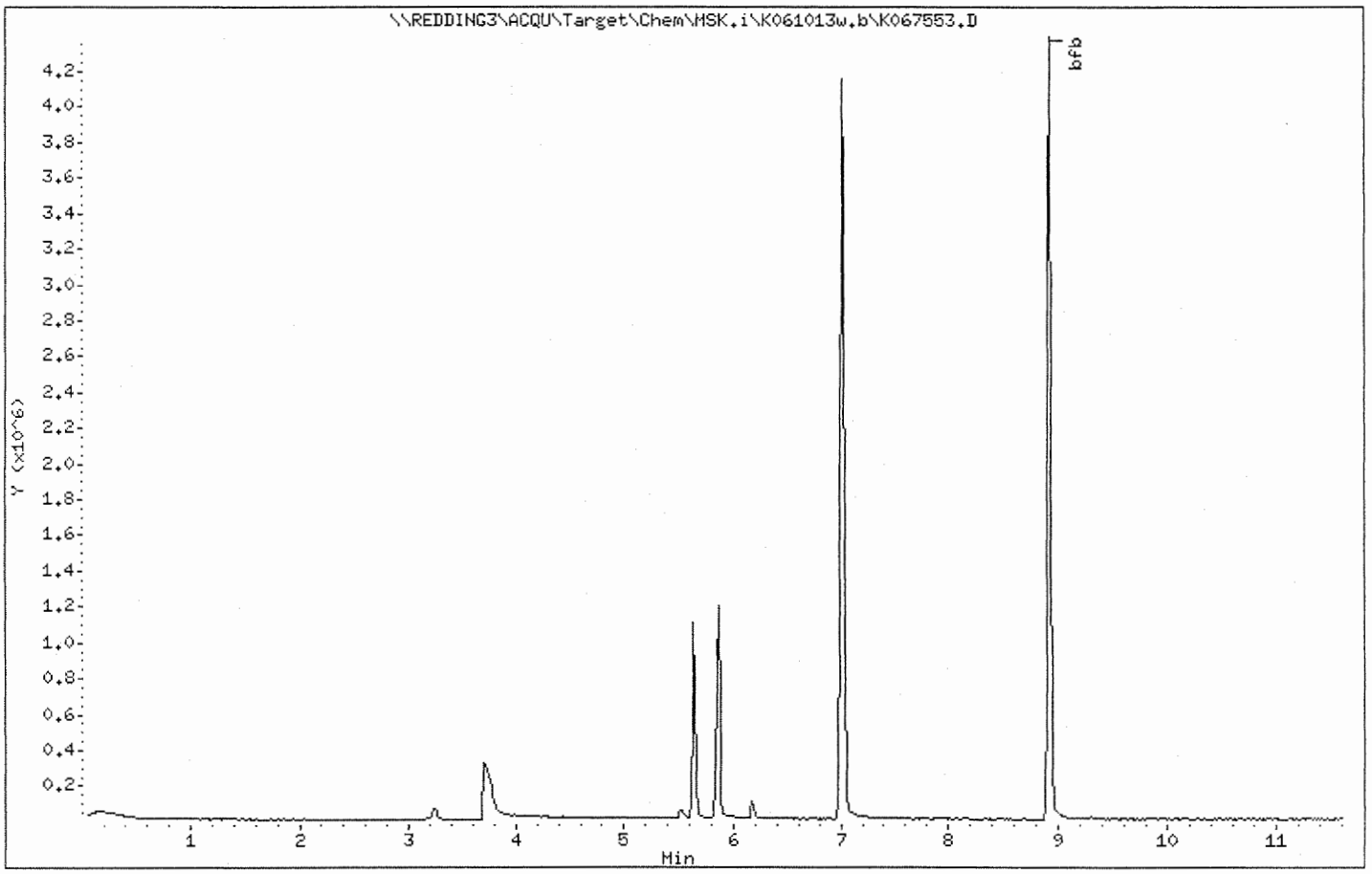
Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061013w.b\K067553.D

Date : 13-OCT-2006 08:34

Client ID: BFB

Instrument: MSK.i

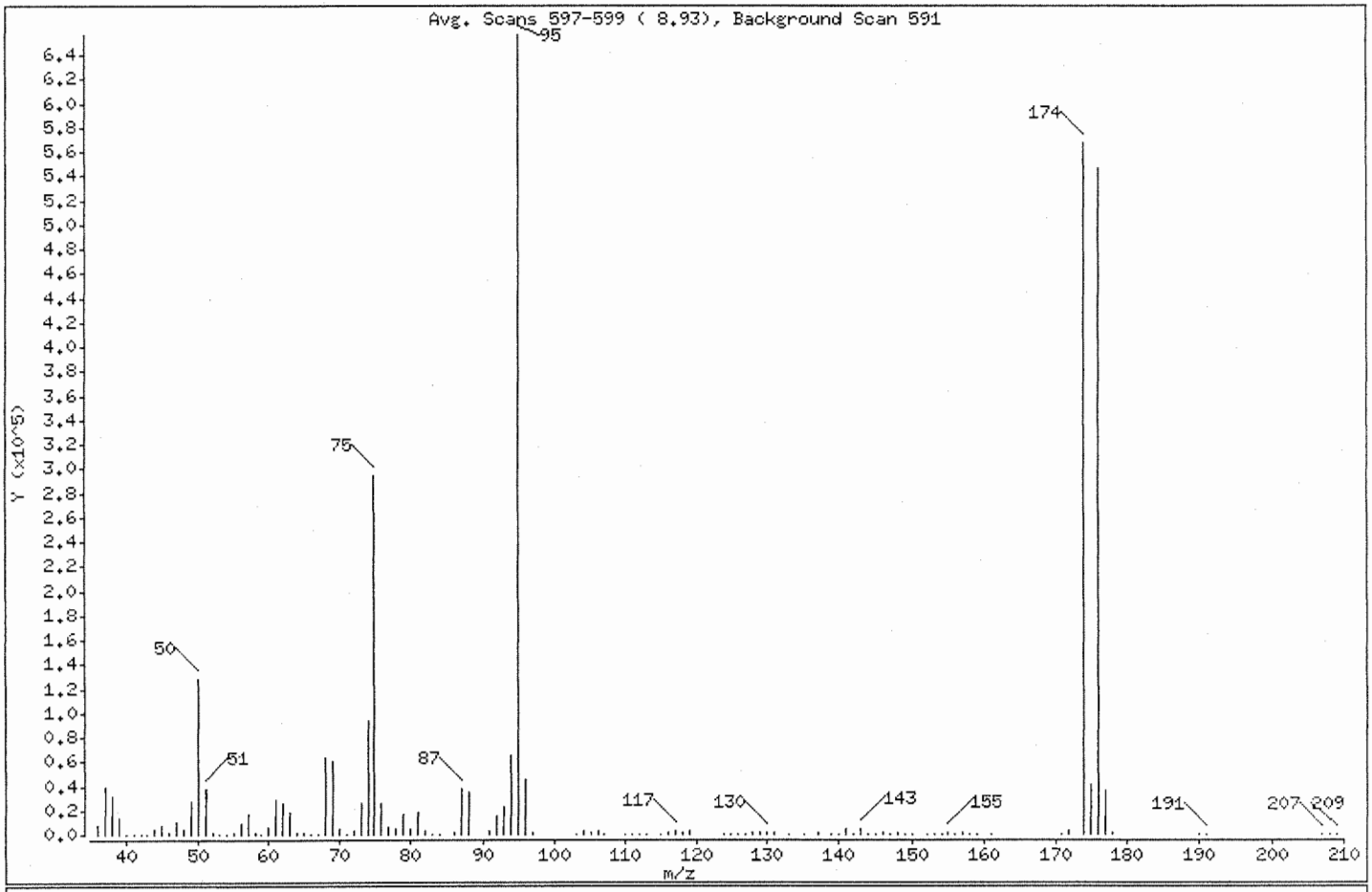
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.43
75	30.00 - 60.00% of mass 95	44.75
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	86.53
175	5.00 - 9.00% of mass 174	6.21 (7.17)
176	95.00 - 101.00% of mass 174	83.12 (96.06)
177	5.00 - 9.00% of mass 176	5.49 (6.61)

Date : 13-OCT-2006 08:34

Client ID: BFB Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624 Column diameter: 0.32

Data File: K067553.D
Spectrum: Avg. Scans 597-599 (8.93), Background Scan 591
Location of Maximum: 95.00
Number of points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7833	66.00	219	104.00	2466	145.00	620
37.00	39424	67.00	429	105.00	1018	146.00	1014
38.00	31760	68.00	63104	106.00	2465	147.00	578
39.00	13559	69.00	60920	107.00	597	148.00	1456
40.00	750	70.00	5035	110.00	221	149.00	462
41.00	265	71.00	132	111.00	280	150.00	433
42.00	42	72.00	3407	112.00	389	152.00	343
43.00	344	73.00	25824	113.00	379	153.00	476
44.00	4647	74.00	93432	115.00	653	154.00	352
45.00	6876	75.00	293824	116.00	1669	155.00	1334
46.00	799	76.00	26104	117.00	3253	156.00	495
47.00	10877	77.00	5786	118.00	1943	157.00	988
48.00	4563	78.00	3935	119.00	2469	158.00	328
49.00	27568	79.00	16856	124.00	348	159.00	699
50.00	127616	80.00	4646	125.00	220	161.00	632
51.00	37800	81.00	17704	126.00	155	171.00	286
52.00	1671	82.00	3473	127.00	189	172.00	2690
53.00	395	83.00	468	128.00	2015	174.00	568192
54.00	97	84.00	89	129.00	1055	175.00	40752
55.00	1842	86.00	986	130.00	2193	176.00	545792
56.00	9121	87.00	37480	131.00	855	177.00	36080
57.00	16736	88.00	34744	133.00	280	178.00	932
58.00	850	91.00	2502	135.00	748	190.00	85
59.00	118	92.00	14732	137.00	855	191.00	226
60.00	6257	93.00	23064	139.00	117	207.00	631
61.00	28080	94.00	64720	140.00	369	208.00	113
62.00	25336	95.00	656640	141.00	4468	209.00	217
63.00	18584	96.00	45448	142.00	303		
64.00	1967	97.00	1373	143.00	4545		
65.00	1991	103.00	258	144.00	124		

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064370.D

Date : 18-OCT-2006 14:13

Client ID: BFB

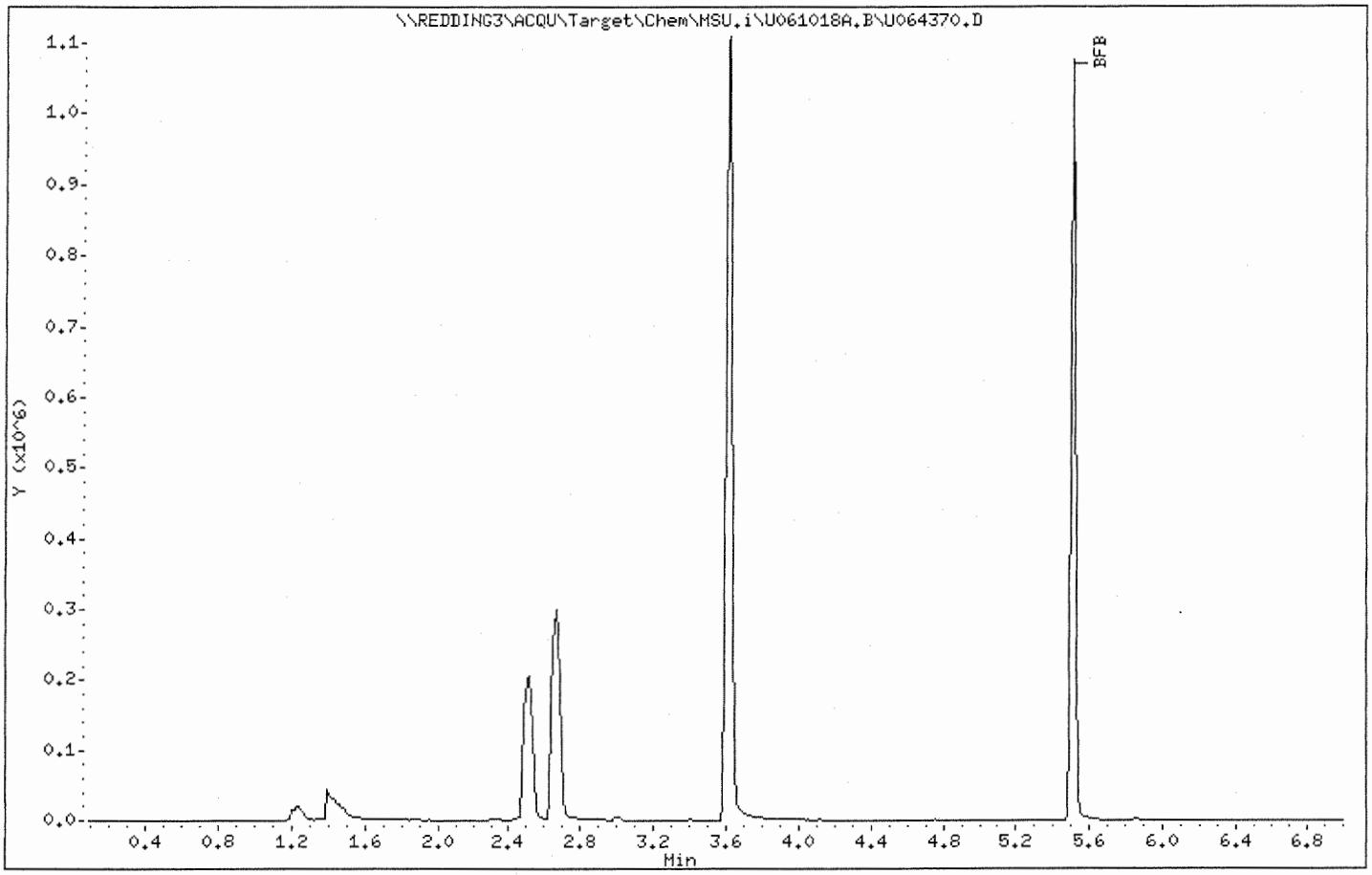
Instrument: MSU.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064370.D

Date : 18-OCT-2006 14:13

Client ID: BFB

Instrument: MSU.i

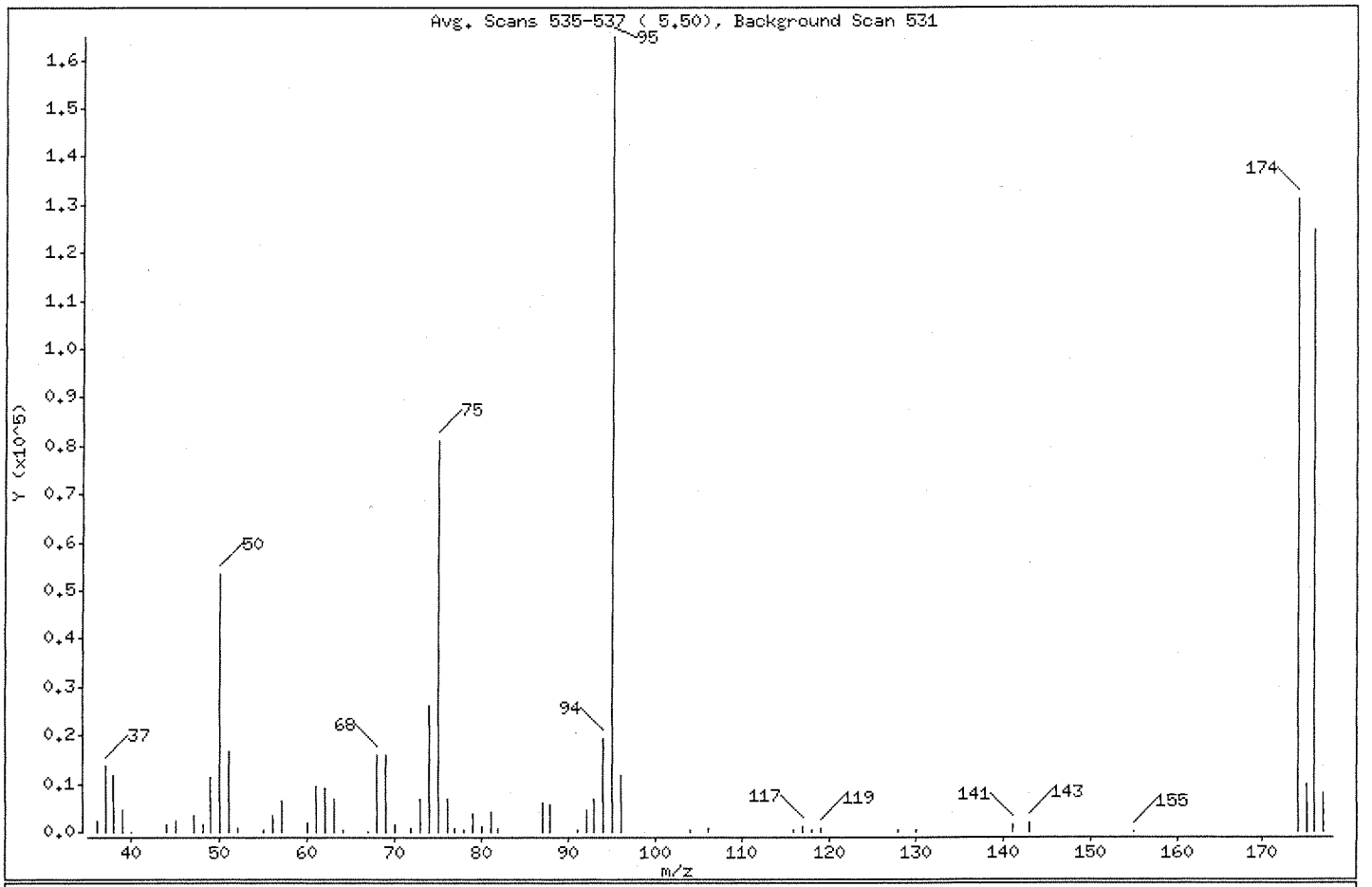
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	32.49
75	30.00 - 60.00% of mass 95	49.21
96	5.00 - 9.00% of mass 95	7.06
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	79.47
175	5.00 - 9.00% of mass 174	6.03 (7.59)
176	95.00 - 101.00% of mass 174	75.66 (95.21)
177	5.00 - 9.00% of mass 176	4.92 (6.51)

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061018A.B\U064370.D

Date : 18-OCT-2006 14:13

Client ID: BFB

Instrument: MSU.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

Data File: U064370.D

Spectrum: Avg. Scans 535-537 (5.50), Background Scan 531

Location of Maximum: 95.00

Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2377	57.00	6347	77.00	863	106.00	717
37.00	13520	60.00	1840	78.00	220	116.00	420
38.00	11816	61.00	9534	79.00	3762	117.00	1076
39.00	4652	62.00	9127	80.00	1095	118.00	463
40.00	170	63.00	6861	81.00	4028	119.00	831
44.00	1511	64.00	449	82.00	874	128.00	409
45.00	2416	67.00	175	87.00	5875	130.00	472
47.00	3381	68.00	16036	88.00	5764	141.00	1699
48.00	1558	69.00	15974	91.00	230	143.00	1794
49.00	11496	70.00	1388	92.00	4432	155.00	176
50.00	53536	72.00	810	93.00	6663	174.00	130960
51.00	16600	73.00	6810	94.00	19432	175.00	9942
52.00	717	74.00	26224	95.00	164800	176.00	124688
55.00	434	75.00	81096	96.00	11633	177.00	8112
56.00	3537	76.00	7000	104.00	525		

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064397.D

Date : 20-OCT-2006 11:19

Client ID: BFB

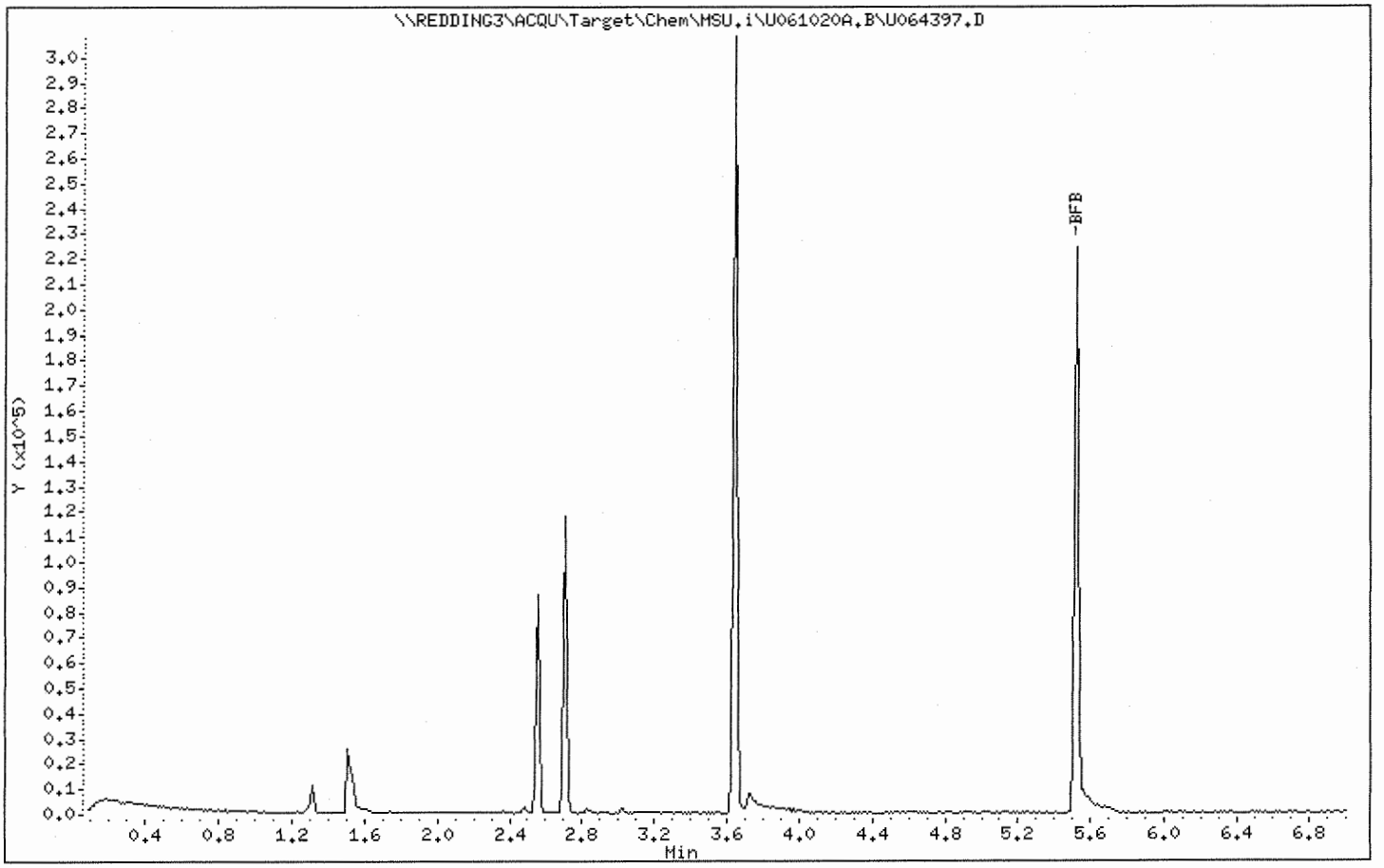
Instrument: MSU.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064397.D

Date : 20-OCT-2006 11:19

Client ID: BFB

Instrument: MSU.i

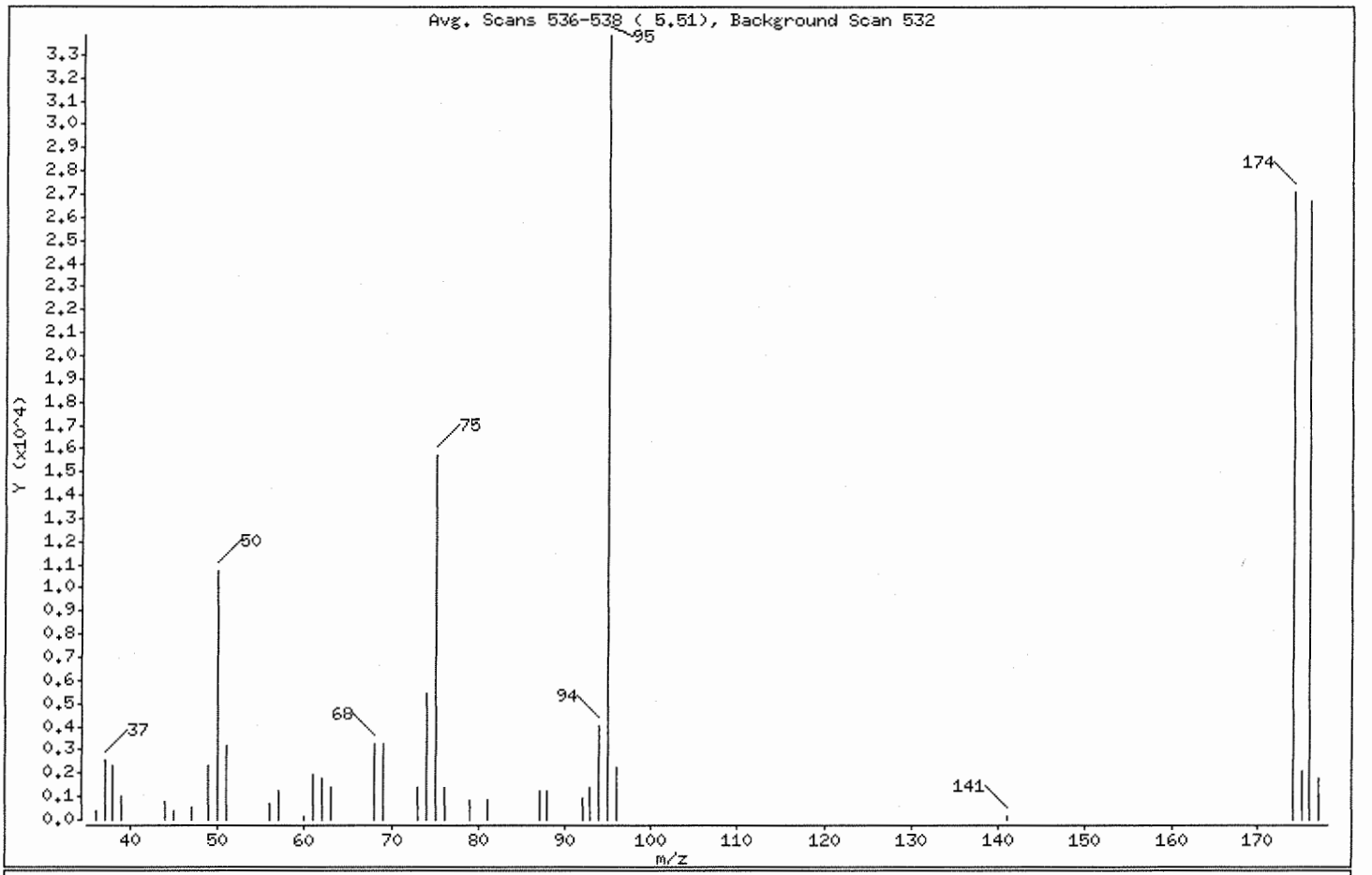
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	31.79
75	30.00 - 60.00% of mass 95	46.39
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	79.93
175	5.00 - 9.00% of mass 174	6.31 (7.90)
176	95.00 - 101.00% of mass 174	78.89 (98.70)
177	5.00 - 9.00% of mass 176	5.20 (6.59)

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064397.D

Date : 20-OCT-2006 11:19

Client ID: BFB

Instrument: MSU.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

Data File: U064397.D

Spectrum: Avg. Scans 536-538 (5.51), Background Scan 532

Location of Maximum: 95.00

Number of points: 36

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	415	56.00	697	75.00	15701	96.00	2295
37.00	2590	57.00	1225	76.00	1384	141.00	171
38.00	2372	60.00	190	79.00	818	174.00	27056
39.00	987	61.00	1967	81.00	818	175.00	2137
44.00	794	62.00	1825	87.00	1242	176.00	26704
45.00	396	63.00	1367	88.00	1229	177.00	1760
47.00	521	68.00	3269	92.00	936		
49.00	2309	69.00	3241	93.00	1424		
50.00	10760	73.00	1363	94.00	4038		
51.00	3207	74.00	5442	95.00	33848		

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067907.D

Date : 26-OCT-2006 01:12

Client ID: BFB

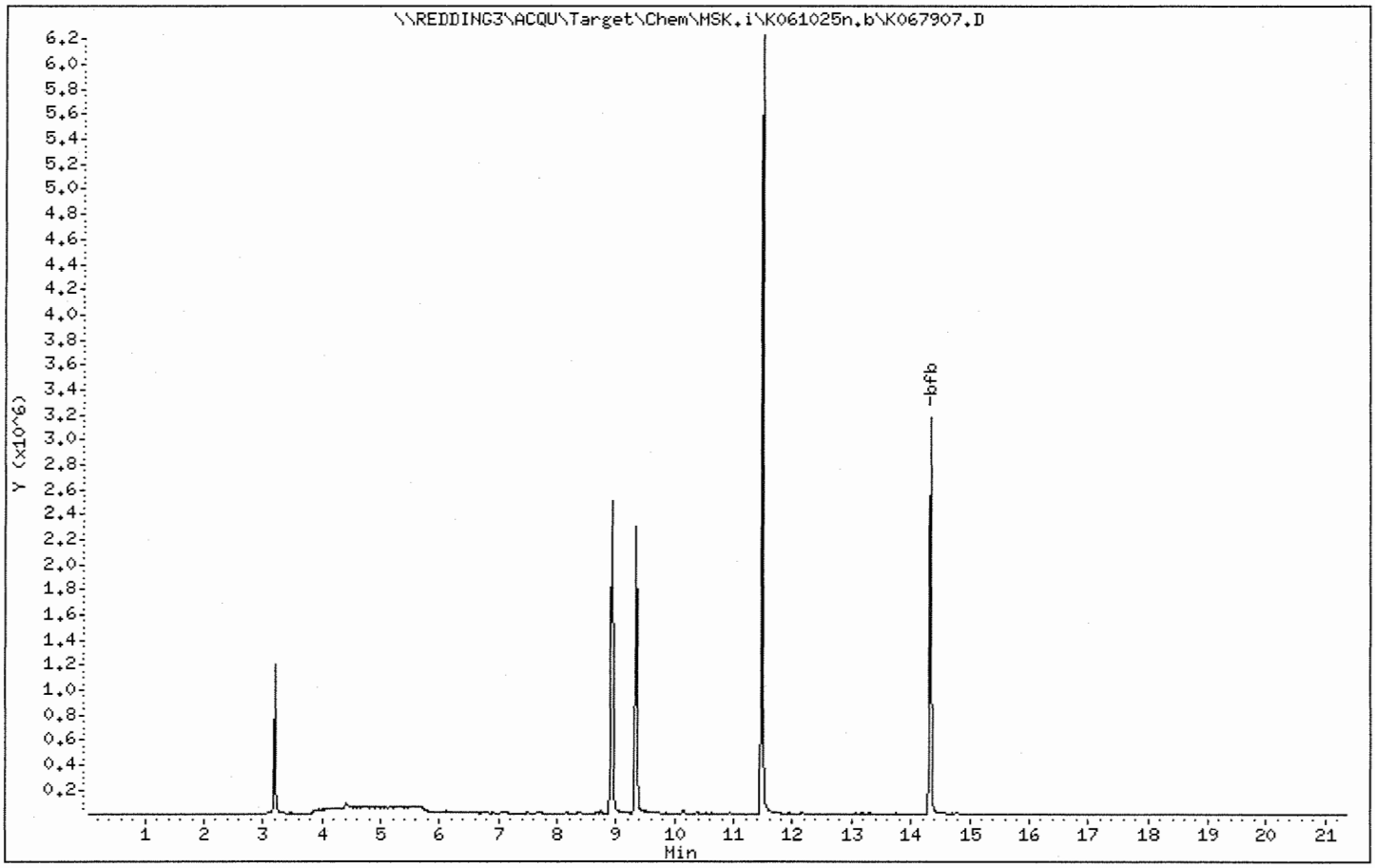
Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067907.D

Date : 26-OCT-2006 01:12

Client ID: BFB

Instrument: MSK.i

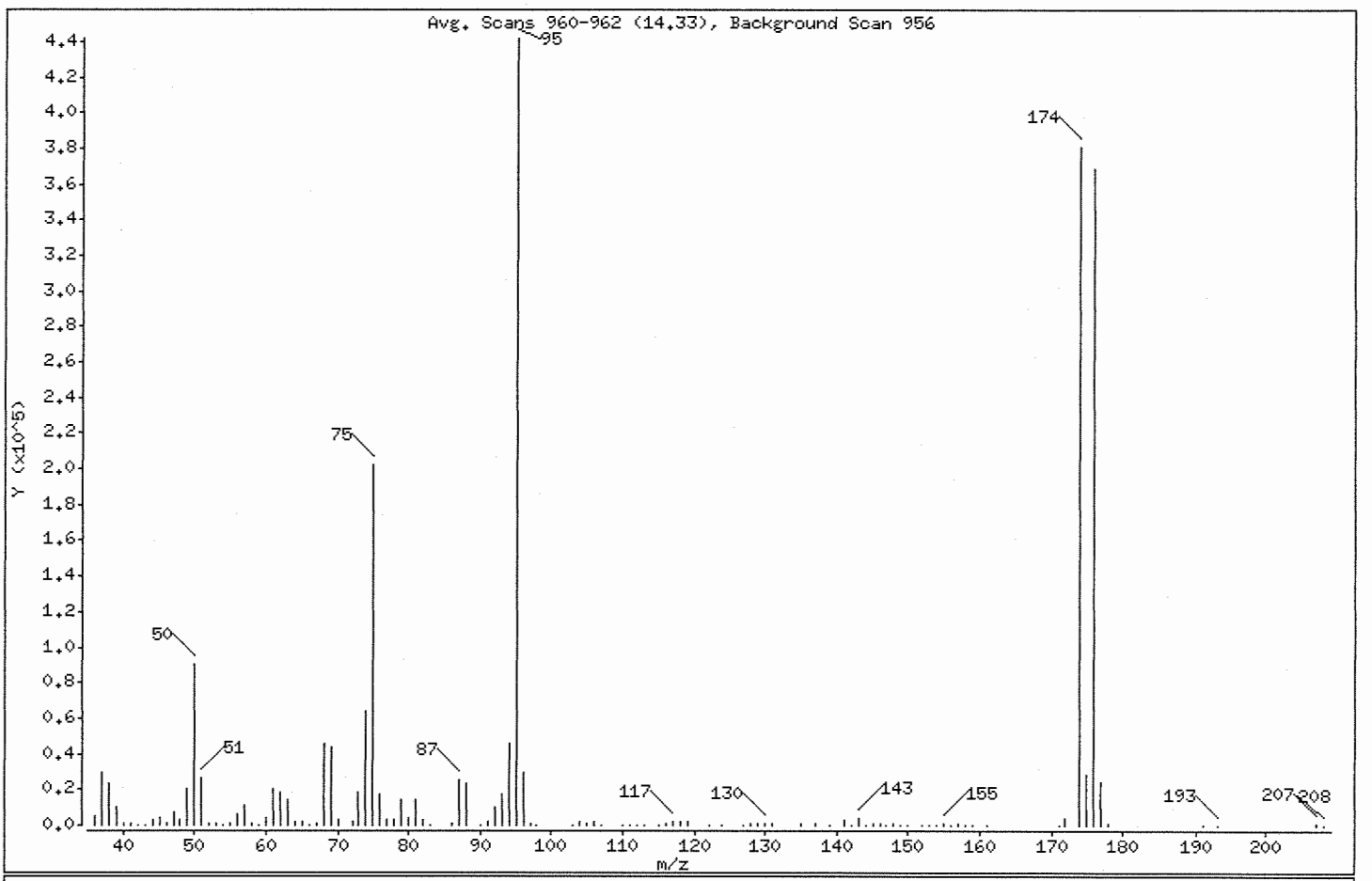
Sample Info: BFB;BFB

Operator:

Column phase: DB-624

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.37
75	30.00 - 60.00% of mass 95	45.79
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	86.15
175	5.00 - 9.00% of mass 174	6.55 (7.60)
176	95.00 - 101.00% of mass 174	83.53 (96.96)
177	5.00 - 9.00% of mass 176	5.41 (6.48)

Date : 26-OCT-2006 01:12

Client ID: BFB Instrument: MSK.i

Sample Info: BFB;BFB

Operator:

Column phase: DB-624 Column diameter: 0.32

Data File: K067907.D
Spectrum: Avg. Scans 960-962 (14.33), Background Scan 956
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5158	65.00	2486	98.00	86	145.00	683
37.00	29144	66.00	340	103.00	374	146.00	668
38.00	23432	67.00	1043	104.00	1596	147.00	349
39.00	10045	68.00	46080	105.00	628	148.00	893
40.00	1073	69.00	43848	106.00	1614	149.00	333
41.00	586	70.00	3229	107.00	429	150.00	335
42.00	205	72.00	2129	110.00	87	152.00	189
43.00	311	73.00	17888	111.00	254	153.00	137
44.00	2605	74.00	63752	112.00	299	154.00	264
45.00	4387	75.00	202304	113.00	108	155.00	1187
46.00	901	76.00	17240	115.00	322	156.00	129
47.00	7227	77.00	3037	116.00	1260	157.00	801
48.00	3518	78.00	2800	117.00	2474	158.00	84
49.00	20088	79.00	13720	118.00	1530	159.00	245
50.00	90008	80.00	3863	119.00	1994	161.00	302
51.00	26816	81.00	13910	122.00	87	171.00	138
52.00	1088	82.00	2894	124.00	172	172.00	3626
53.00	508	83.00	477	127.00	86	174.00	380672
54.00	118	86.00	911	128.00	1476	175.00	28920
55.00	1419	87.00	24888	129.00	736	176.00	369088
56.00	6395	88.00	23520	130.00	1482	177.00	23912
57.00	11627	90.00	107	131.00	514	178.00	736
58.00	730	91.00	1570	135.00	683	191.00	91
59.00	289	92.00	10258	137.00	592	193.00	96
60.00	4439	93.00	17320	139.00	113	207.00	610
61.00	19832	94.00	45848	141.00	3437	208.00	197
62.00	18736	95.00	441856	142.00	263		
63.00	14603	96.00	29672	143.00	3559		
64.00	1813	97.00	923	144.00	228		

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U1020S01
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloromethane	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Chloride	ND	U	0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromomethane	ND	U	5.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroethane	ND	U	1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichlorofluoromethane (CFC 11)	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
Acetone	ND	U	5.1	25	1	10/20/2006	10/20/2006	U1020S01	
Carbon Disulfide	ND	U	0.62	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dichloromethane (Methylene Chloride)	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,2-Dichloroethene	ND	U	0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
Methyl tert-Butyl Ether	ND	U	0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Acetate	ND	U	0.47	5.0	1	10/20/2006	10/20/2006	U1020S01	
2,2-Dichloropropane	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,2-Dichloroethene	ND	U	0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Butanone (MEK)	ND	U	5.0	25	1	10/20/2006	10/20/2006	U1020S01	
Bromochloromethane	ND	U	0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroform	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1-Trichloroethane (TCA)	ND	U	0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloropropene	ND	U	0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
Carbon Tetrachloride	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
Benzene	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloroethane (EDC)	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichloroethene (TCE)	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloropropane	ND	U	0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dibromomethane	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromodichloromethane	ND	U	0.74	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,3-Dichloropropene	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Methyl-2-pentanone (MIBK)	ND	U	6.1	25	1	10/20/2006	10/20/2006	U1020S01	
Toluene	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,3-Dichloropropene	ND	U	0.65	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichloroethane	ND	U	0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
Tetrachloroethene (PCE)	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichloropropane	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Hexanone	ND	U	7.7	25	1	10/20/2006	10/20/2006	U1020S01	
Dibromochloromethane	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U1020S01
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chlorobenzene	ND	U	0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1,2-Tetrachloroethane	ND	U	0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
Ethylbenzene	ND	U	0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
Xylenes, Total	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Styrene	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromoform	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Isopropylbenzene	ND	U	0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2,2-Tetrachloroethane	ND	U	0.61	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromobenzene	ND	U	0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichloropropane	ND	U	1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Propylbenzene	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Chlorotoluene	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3,5-Trimethylbenzene	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Chlorotoluene	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
tert-Butylbenzene	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trimethylbenzene	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
sec-Butylbenzene	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichlorobenzene	ND	U	0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Isopropyltoluene	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,4-Dichlorobenzene	ND	U	0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Butylbenzene	ND	U	0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichlorobenzene	ND	U	1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	3.2	25	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trichlorobenzene	ND	U	1.2	5.0	1	10/20/2006	10/20/2006	U1020S01	
Hexachlorobutadiene	ND	U	1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Naphthalene	ND	U	1.6	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichlorobenzene	ND	U	1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	85	70-148	10/20/2006	
4-Bromofluorobenzene - SS	94	69-138	10/20/2006	
Dibromofluoromethane - SS	91	74-131	10/20/2006	
Toluene-d8 - SS	92	77-132	10/20/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064404.D
Lab Smp Id: U1020S01 Client Smp ID: U1020S01
Inj Date : 20-OCT-2006 14:13
Operator : Reggie Inst ID: MSU.i
Smp Info : U1020S01;U1020S01
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\8260s5.m
Meth Date : 26-Oct-2006 09:35 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 16:41 Cal File: U064376.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12

Concentration Formula: Amt * DF * UF*5/(Ws*((100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	6.435	6.435	(1.000)	1788118	50.0000	
*	2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1240799	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	304479	50.0000	
$	5 Dibromofluoromethane	113	5.564	5.564	(0.865)	449415	45.4952	45.50
$	6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	579493	42.4715	42.47
$	7 Toluene-d8	98	8.450	8.450	(0.827)	1522642	46.2426	46.24
$	8 Bromofluorobenzene	174	11.680	11.680	(0.892)	402571	46.9221	46.92
	9 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	Compound Not Detected.					
	12 Bromomethane	94	Compound Not Detected.					
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	16 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	18 1,1-Dichloroethene	96	Compound Not Detected.					
	19 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	23 Methylene chloride	84	Compound Not Detected.					
	26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	27 tert-Butylmethylether	73	Compound Not Detected.					
	29 1,1-Dichloroethane	63	Compound Not Detected.					

12.5/26/06

06/10-26-06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	30 Vinyl acetate	43	Compound Not Detected.					
	32 2,2-Dichloropropane	77	Compound Not Detected.					
	33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
M	34 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	35 2-Butanone	43	Compound Not Detected.					
	36 Bromochloromethane	128	Compound Not Detected.					
	37 Chloroform	83	Compound Not Detected.					
	38 1,1,1-Trichloroethane	97	Compound Not Detected.					
	39 1,1-Dichloropropene	75	Compound Not Detected.					
	40 Carbon tetrachloride	119	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	43 1,2-Dichloroethane	62	6.435	6.101	(1.000)	31390	1.97455	1.97(a)
	44 Trichloroethene	95	Compound Not Detected.					
	45 1,2-Dichloropropane	63	Compound Not Detected.					
	47 Dibromomethane	93	Compound Not Detected.					
	48 Bromodichloromethane	83	Compound Not Detected.					
	50 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	51 4-Methyl-2-pentanone	58	Compound Not Detected.					
	52 Toluene	92	Compound Not Detected.					
	53 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	54 1,1,2-Trichloroethane	83	Compound Not Detected.					
	55 Tetrachloroethene	166	Compound Not Detected.					
	56 1,3-Dichloropropane	76	Compound Not Detected.					
	57 2-Hexanone	43	Compound Not Detected.					
	58 Dibromochloromethane	129	Compound Not Detected.					
	59 1,2-Dibromoethane	107	Compound Not Detected.					
	61 Chlorobenzene	112	Compound Not Detected.					
	62 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	63 Ethylbenzene	91	Compound Not Detected.					
	64 m-,p-Xylene	106	Compound Not Detected.					
	65 o-Xylene	106	Compound Not Detected.					
M	66 Xylene (total)	106	Compound Not Detected.					
	67 Styrene	104	Compound Not Detected.					
	68 Bromoform	173	Compound Not Detected.					
	69 Isopropylbenzene	105	Compound Not Detected.					
	70 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 1,2,3-Trichloropropane	110	Compound Not Detected.					
	74 n-Propylbenzene	120	Compound Not Detected.					
	76 2-Chlorotoluene	126	Compound Not Detected.					
	77 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	78 4-Chlorotoluene	126	Compound Not Detected.					
	79 tert-Butylbenzene	119	Compound Not Detected.					
	80 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	81 sec-Butylbenzene	105	Compound Not Detected.					
	82 1,3-Dichlorobenzene	146	Compound Not Detected.					
	83 p-Isopropyltoluene	119	Compound Not Detected.					
	84 1,4-Dichlorobenzene	146	Compound Not Detected.					
	85 n-Butylbenzene	91	Compound Not Detected.					
	86 1,2-Dichlorobenzene	146	Compound Not Detected.					
	87 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
	88 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	89 Hexachlorobutadiene	225	Compound Not Detected.					
	90 Naphthalene	128	Compound Not Detected.					

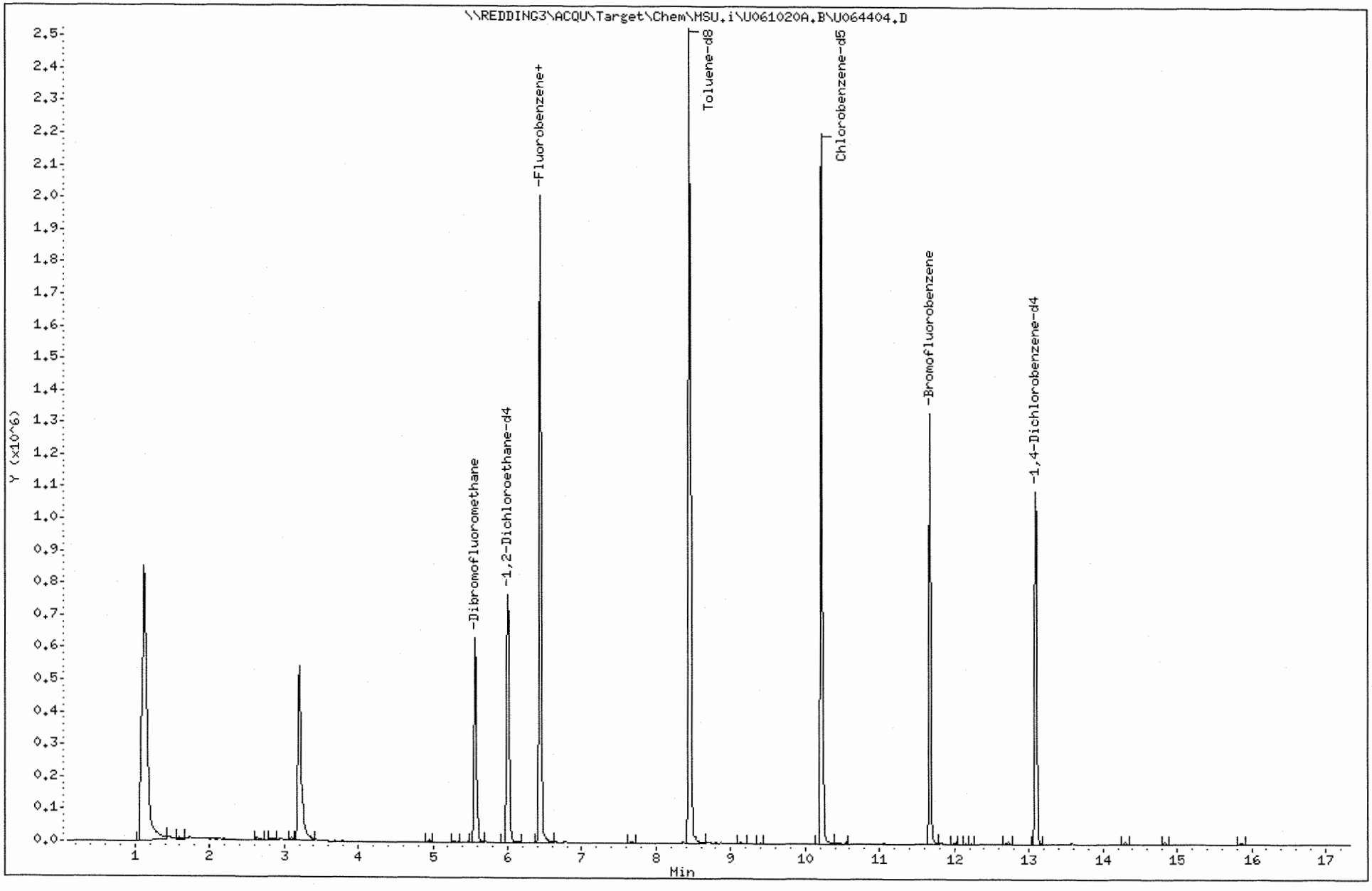
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
91 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064404.D
Date : 20-OCT-2006 14:13
Client ID: U1020S01
Sample Info: U1020S01;U1020S01
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: Reggie
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064404.D

Date : 20-OCT-2006 14:13

Client ID: U1020S01

Instrument: MSU.i

Sample Info: U1020S01;U1020S01

Purge Volume: 10.0

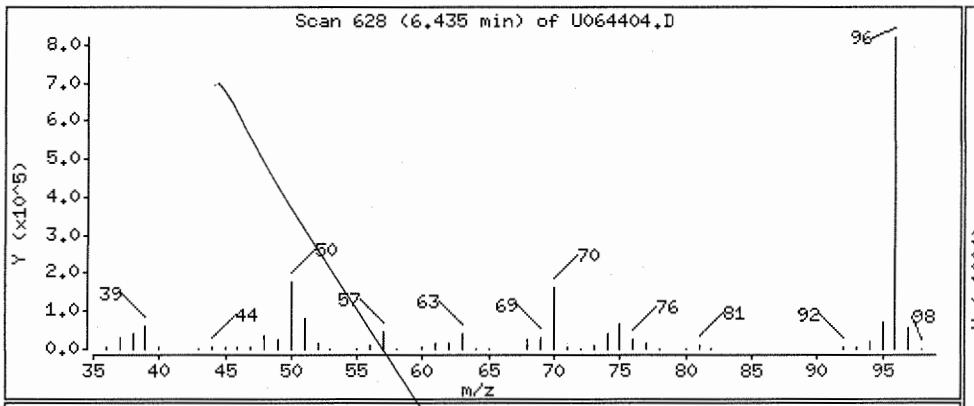
Operator: Reggie

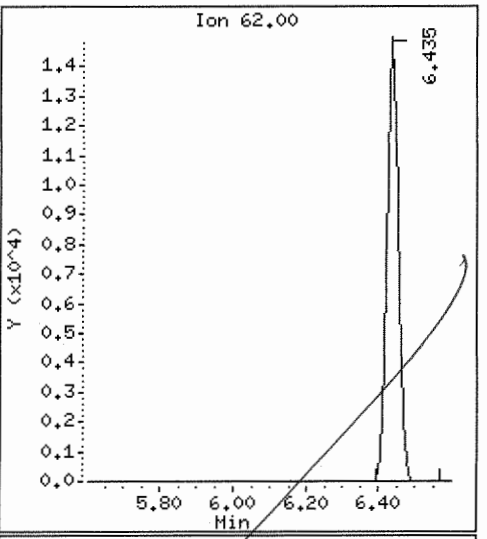
Column phase: DB-624

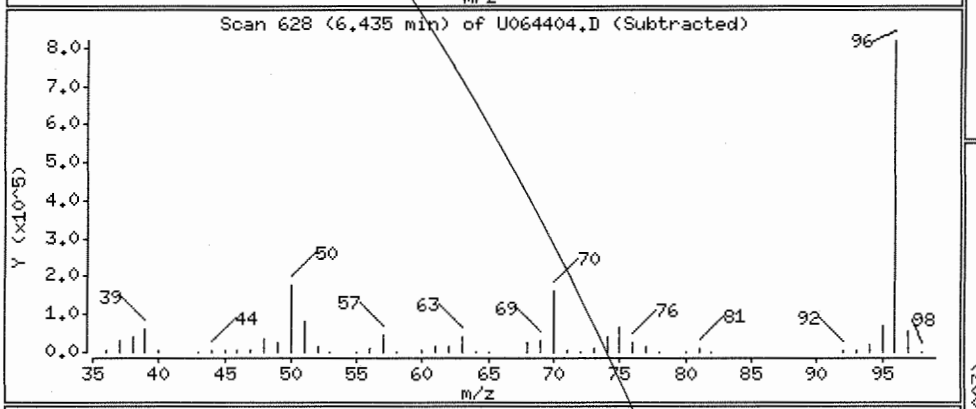
Column diameter: 0.32

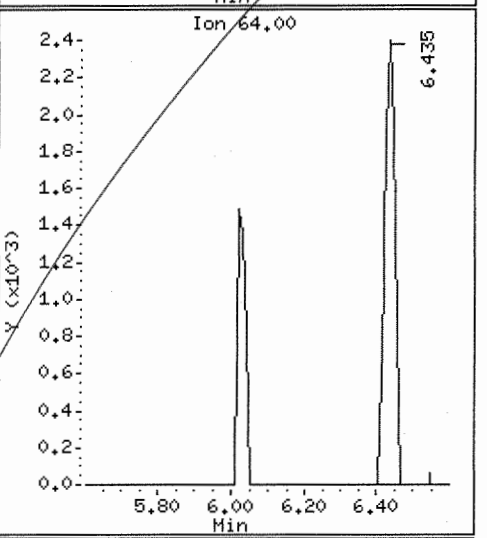
43 1,2-Dichloroethane

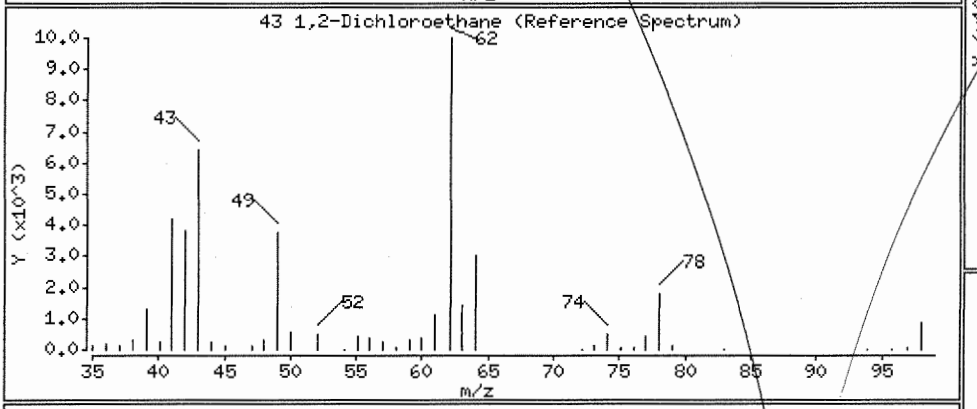
Concentration: 1.97 ug/Kg

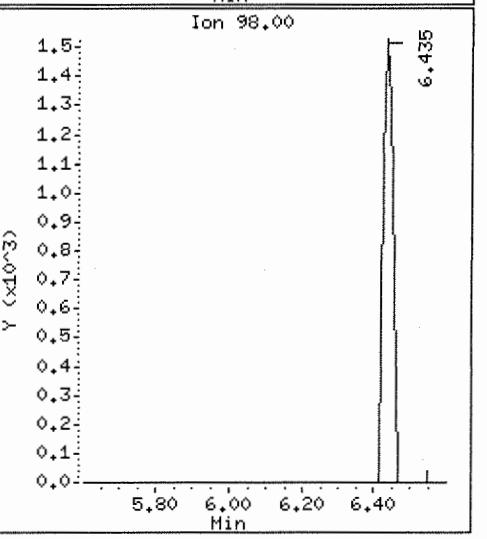


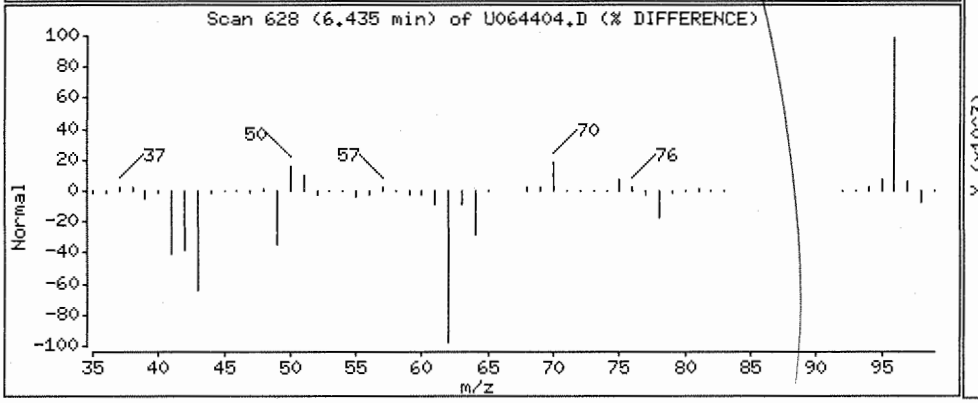












COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: U1020S01LCS
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**56.4**		1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloromethane	**54.4**		0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Chloride	**54.3**		0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromomethane	**57.1**		5.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroethane	**57.1**		1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichlorofluoromethane (CFC 11)	**56.8**		0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichlorotrifluoroethane	**55.7**		0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethene (1,1-DCE)	**56.6**		0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
Acetone	**227**		5.1	25	1	10/20/2006	10/20/2006	U1020S01	
Carbon Disulfide	**51.5**		0.62	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dichloromethane (Methylene Chloride)	**49.2**		0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,2-Dichloroethene	**53.8**		0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
Methyl tert-Butyl Ether	**49.8**		0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethane (1,1-DCA)	**48.3**		0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Acetate	**51.4**		0.47	5.0	1	10/20/2006	10/20/2006	U1020S01	
2,2-Dichloropropane	**54.7**		0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,2-Dichloroethene	**51.0**		0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Butanone (MEK)	**224**		5.0	25	1	10/20/2006	10/20/2006	U1020S01	
Bromochloromethane	**49.3**		0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroform	**48.2**		0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1-Trichloroethane (TCA)	**51.2**		0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloropropene	**52.0**		0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
Carbon Tetrachloride	**55.4**		0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
Benzene	**49.7**		0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloroethane (EDC)	**47.7**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichloroethene (TCE)	**49.6**		0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloropropane	**48.3**		0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dibromomethane	**47.5**		0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromodichloromethane	**48.8**		0.74	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,3-Dichloropropene	**51.2**		0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Methyl-2-pentanone (MIBK)	**226**		6.1	25	1	10/20/2006	10/20/2006	U1020S01	
Toluene	**47.8**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,3-Dichloropropene	**51.4**		0.65	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichloroethane	**46.5**		0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
Tetrachloroethene (PCE)	**51.8**		0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichloropropane	**47.2**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Hexanone	**231**		7.7	25	1	10/20/2006	10/20/2006	U1020S01	
Dibromochloromethane	**50.4**		0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: U1020S01LCS
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**47.7**		0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chlorobenzene	**48.0**		0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1,2-Tetrachloroethane	**50.7**		0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
Ethylbenzene	**48.0**		0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
Xylenes, Total	**145**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Styrene	**47.8**		0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromoform	**52.8**		0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Isopropylbenzene	**48.9**		0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2,2-Tetrachloroethane	**46.9**		0.61	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromobenzene	**46.5**		0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichloropropane	**43.9**		1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Propylbenzene	**50.4**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Chlorotoluene	**47.2**		0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3,5-Trimethylbenzene	**47.3**		0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Chlorotoluene	**47.5**		0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
tert-Butylbenzene	**45.5**		0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trimethylbenzene	**47.0**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
sec-Butylbenzene	**49.5**		0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichlorobenzene	**46.9**		0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Isopropyltoluene	**47.0**		0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,4-Dichlorobenzene	**47.0**		0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Butylbenzene	**46.6**		0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichlorobenzene	**46.2**		1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dibromo-3-chloropropane (DBCP)	**169**		3.2	25	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trichlorobenzene	**48.5**		1.2	5.0	1	10/20/2006	10/20/2006	U1020S01	
Hexachlorobutadiene	**47.4**		1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Naphthalene	**45.8**		1.6	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichlorobenzene	**45.6**		1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	92	70-148	10/20/2006	
4-Bromofluorobenzene - SS	94	69-138	10/20/2006	
Dibromofluoromethane - SS	94	74-131	10/20/2006	
Toluene-d8 - SS	93	77-132	10/20/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064400.D
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Inj Date : 20-OCT-2006 12:37
Operator : Reggie Inst ID: MSU.i
Smp Info : U1020S01LCS;U1020S01LCS
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\8260s5.m
Meth Date : 26-Oct-2006 09:35 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 16:41 Cal File: U064376.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12

Concentration Formula: Amt * DF * UF*5/(Ws*((100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	6.435	6.435	(1.000)	1776528	50.0000	
*	2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1217119	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	296800	50.0000	
$	5 Dibromofluoromethane	113	5.564	5.564	(0.865)	463100	47.1864	47.19
$	6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	614964	45.9481	45.95
$	7 Toluene-d8	98	8.450	8.450	(0.827)	1496302	46.3268	46.33
$	8 Bromofluorobenzene	174	11.680	11.680	(0.892)	393424	47.0424	47.04
	9 Dichlorodifluoromethane	85	1.250	1.250	(0.194)	221692	56.4097	56.41
	10 Chloromethane	50	1.412	1.412	(0.220)	439785	54.4519	54.45
	11 Vinyl chloride	62	1.483	1.483	(0.231)	341465	54.3377	54.34
	12 Bromomethane	94	1.746	1.746	(0.271)	80223	57.0766	57.08
	13 Chloroethane	64	1.827	1.827	(0.284)	134817	57.1050	57.10(Q)
	14 Trichlorofluoromethane	101	2.060	2.050	(0.320)	438375	56.7652	56.76
	16 1,1,2-Trichlorotrifluoroethane	101	2.546	2.546	(0.396)	279646	55.7060	55.71
	18 1,1-Dichloroethene	96	2.546	2.546	(0.396)	228961	56.5767	56.58(Q)
	19 Acetone	43	2.637	2.637	(0.410)	874807	226.775	226.8
	21 Carbon disulfide	76	2.759	2.759	(0.429)	668663	51.5011	51.50
	23 Methylene chloride	84	3.093	3.093	(0.481)	222429	49.2009	49.20(Q)
	26 trans-1,2-Dichloroethene	96	3.417	3.417	(0.531)	360439	53.8515	53.85(Q)
	27 tert-Butylmethylether	73	3.437	3.448	(0.534)	1094764	49.8224	49.82(Q)
	29 1,1-Dichloroethane	63	4.015	4.015	(0.624)	957234	48.2911	48.29

06/10-26-06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	30 Vinyl acetate	43	4.146	4.146	(0.644)	2877816	51.3952	51.40
	32 2,2-Dichloropropane	77	4.855	4.855	(0.755)	610141	54.6847	54.68(Q)
	33 cis-1,2-Dichloroethene	96	4.875	4.875	(0.758)	482962	50.9674	50.97(Q)
M	34 1,2-Dichloroethene (total)	96				843401	104.819	104.8
	35 2-Butanone	43	4.946	4.946	(0.769)	2013125	223.724	223.7
	36 Bromochloromethane	128	5.210	5.210	(0.810)	225401	49.2717	49.27(Q)
	37 Chloroform	83	5.341	5.341	(0.830)	760358	48.2163	48.22
	38 1,1,1-Trichloroethane	97	5.544	5.544	(0.862)	648130	51.2510	51.25
	39 1,1-Dichloropropene	75	5.777	5.777	(0.898)	578602	51.9915	51.99
	40 Carbon tetrachloride	119	5.756	5.756	(0.895)	543300	55.4312	55.43
	41 Benzene	78	6.050	6.050	(0.940)	1766852	49.6937	49.69(Q)
	43 1,2-Dichloroethane	62	6.101	6.101	(0.948)	753968	47.7369	47.74
	44 Trichloroethene	95	6.911	6.911	(1.074)	486356	49.5518	49.55
	45 1,2-Dichloropropane	63	7.204	7.204	(1.120)	577315	48.2551	48.26(Q)
	47 Dibromomethane	93	7.346	7.346	(1.142)	272188	47.5387	47.54
	48 Bromodichloromethane	83	7.569	7.569	(1.176)	577468	48.8531	48.85
	50 cis-1,3-Dichloropropene	75	8.136	8.136	(1.264)	719719	51.1604	51.16
	51 4-Methyl-2-pentanone	58	8.359	8.359	(1.299)	1286526	225.774	225.8(Q)
	52 Toluene	92	8.531	8.531	(0.835)	1072051	47.7652	47.76
	53 trans-1,3-Dichloropropene	75	8.845	8.845	(0.865)	655345	51.3744	51.37
	54 1,1,2-Trichloroethane	83	9.058	9.057	(0.886)	307926	46.4758	46.48
	55 Tetrachloroethene	166	9.189	9.189	(0.899)	543288	51.7794	51.78
	56 1,3-Dichloropropane	76	9.260	9.260	(0.906)	689343	47.2501	47.25(Q)
	57 2-Hexanone	43	9.392	9.402	(0.919)	2811121	231.124	231.1
	58 Dibromochloromethane	129	9.523	9.533	(0.932)	460773	50.4308	50.43
	59 1,2-Dibromoethane	107	9.645	9.645	(0.944)	422788	47.6961	47.70
	61 Chlorobenzene	112	10.252	10.252	(1.003)	1095375	47.9488	47.95
	62 1,1,1,2-Tetrachloroethane	131	10.364	10.374	(1.014)	463962	50.7234	50.72
	63 Ethylbenzene	91	10.404	10.404	(1.018)	1800478	48.0502	48.05
	64 m-,p-Xylene	106	10.546	10.556	(1.032)	1213518	96.5633	96.56
	65 o-Xylene	106	11.032	11.032	(1.079)	597152	48.2457	48.24
M	66 Xylene (total)	106				1810670	144.809	144.8
	67 Styrene	104	11.052	11.062	(1.081)	1008730	47.7935	47.79
	68 Bromoform	173	11.275	11.275	(1.103)	253113	52.8120	52.81
	69 Isopropylbenzene	105	11.488	11.498	(1.124)	1684155	48.9029	48.90
	70 1,1,2,2-Tetrachloroethane	83	11.893	11.893	(0.908)	317711	46.9034	46.90
	71 Bromobenzene	156	11.842	11.842	(0.904)	388566	46.4624	46.46
	72 1,2,3-Trichloropropane	110	11.923	11.923	(0.910)	114995	43.9250	43.92(Q)
	74 n-Propylbenzene	120	12.004	12.004	(0.917)	413759	50.3520	50.35
	76 2-Chlorotoluene	126	12.095	12.095	(0.923)	330321	47.1899	47.19(Q)
	77 1,3,5-Trimethylbenzene	105	12.227	12.227	(0.934)	1044083	47.2914	47.29
	78 4-Chlorotoluene	126	12.227	12.237	(0.934)	317590	47.4947	47.49(Q)
	79 tert-Butylbenzene	119	12.622	12.622	(0.964)	968039	45.4570	45.46
	80 1,2,4-Trimethylbenzene	105	12.683	12.683	(0.968)	969269	47.0122	47.01
	81 sec-Butylbenzene	105	12.885	12.895	(0.984)	1357964	49.4630	49.46
	82 1,3-Dichlorobenzene	146	13.007	13.007	(0.993)	477065	46.9035	46.90
	83 p-Isopropyltoluene	119	13.078	13.078	(0.998)	1025178	47.0419	47.04
	84 1,4-Dichlorobenzene	146	13.118	13.118	(1.002)	468776	47.0190	47.02
	85 n-Butylbenzene	91	13.584	13.584	(1.037)	768850	46.5638	46.56
	86 1,2-Dichlorobenzene	146	13.574	13.574	(1.036)	397468	46.2148	46.21
	87 1,2-Dibromo-3-chloropropane	75	14.546	14.546	(1.111)	145549	168.931	168.9(Q)
	88 1,2,4-Trichlorobenzene	180	15.559	15.559	(1.188)	278596	48.4968	48.50
	89 Hexachlorobutadiene	225	15.781	15.781	(1.205)	164839	47.4272	47.43
	90 Naphthalene	128	15.862	15.862	(1.211)	596661	45.8175	45.82

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
91 1,2,3-Trichlorobenzene	180	16.156	16.156	(1.233)	254754	45.5831	45.58

QC Flag Legend

Q - Qualifier signal failed the ratio test.

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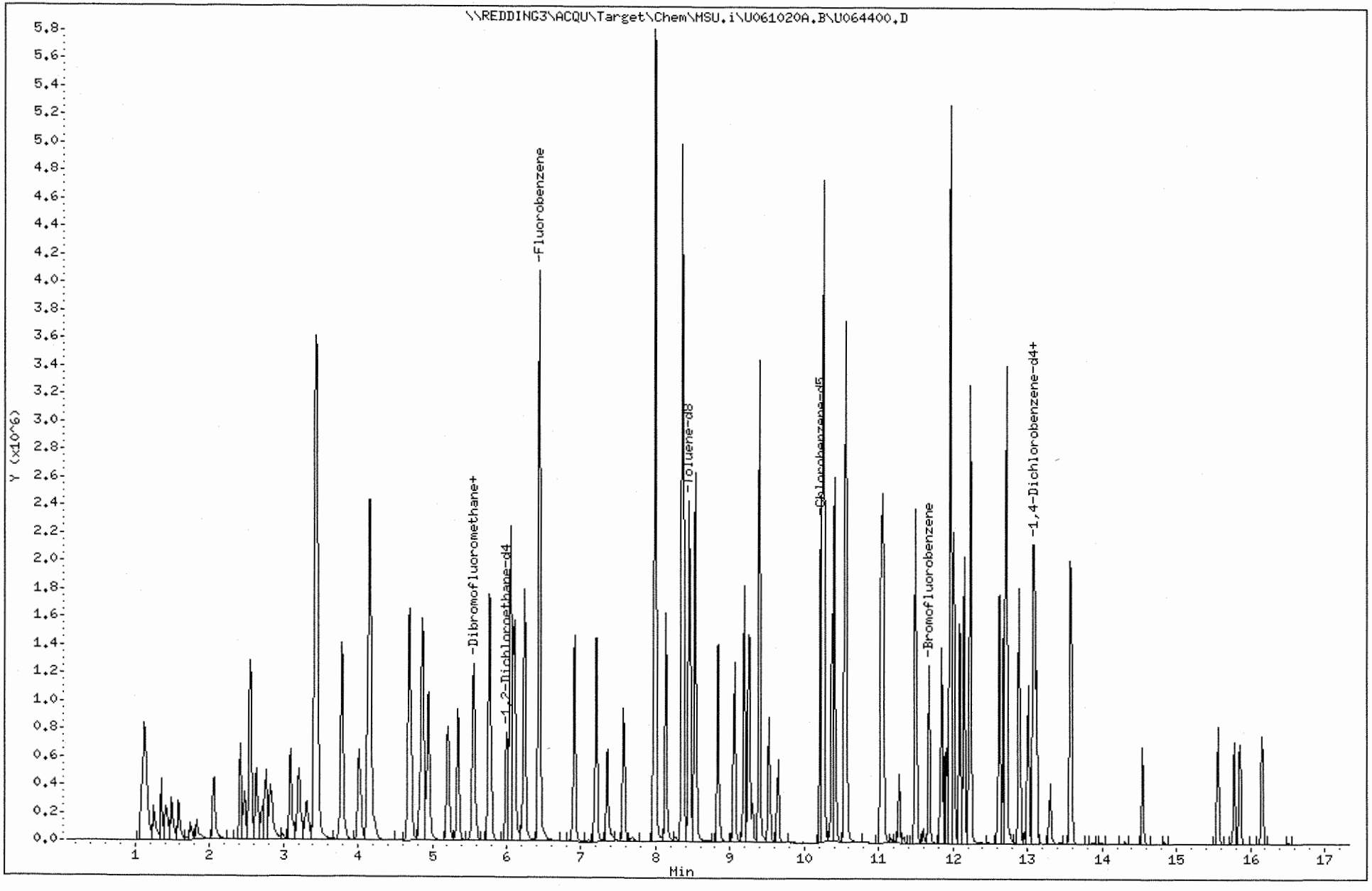
Date : 20-OCT-2006 12:37
Client ID: U1020S01LCS
Sample Info: U1020S01LCS;U1020S01LCS
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i

Operator: Reggie
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: U1020S01LCSD
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**48.5**		0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chlorobenzene	**48.1**		0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1,2-Tetrachloroethane	**51.4**		0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
Ethylbenzene	**47.9**		0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
Xylenes, Total	**144**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Styrene	**48.1**		0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromoform	**54.3**		0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Isopropylbenzene	**49.2**		0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2,2-Tetrachloroethane	**47.0**		0.61	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromobenzene	**46.0**		0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichloropropane	**46.2**		1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Propylbenzene	**49.8**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Chlorotoluene	**47.3**		0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3,5-Trimethylbenzene	**46.7**		0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Chlorotoluene	**47.4**		0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
tert-Butylbenzene	**45.5**		0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trimethylbenzene	**47.2**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
sec-Butylbenzene	**49.3**		0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichlorobenzene	**47.1**		0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Isopropyltoluene	**47.2**		0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,4-Dichlorobenzene	**47.4**		0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Butylbenzene	**47.0**		0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichlorobenzene	**46.5**		1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dibromo-3-chloropropane (DBCP)	**175**		3.2	25	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trichlorobenzene	**48.7**		1.2	5.0	1	10/20/2006	10/20/2006	U1020S01	
Hexachlorobutadiene	**47.7**		1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Naphthalene	**47.2**		1.6	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichlorobenzene	**46.3**		1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	93	70-148	10/20/2006	
4-Bromofluorobenzene - SS	92	69-138	10/20/2006	
Dibromofluoromethane - SS	93	74-131	10/20/2006	
Toluene-d8 - SS	92	77-132	10/20/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: U1020S01LCSD
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**54.6**		1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloromethane	**53.2**		0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Chloride	**53.6**		0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromomethane	**53.7**		5.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroethane	**55.2**		1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichlorofluoromethane (CFC 11)	**55.1**		0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichlorotrifluoroethane	**55.5**		0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethene (1,1-DCE)	**55.7**		0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
Acetone	**239**		5.1	25	1	10/20/2006	10/20/2006	U1020S01	
Carbon Disulfide	**50.8**		0.62	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dichloromethane (Methylene Chloride)	**48.6**		0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,2-Dichloroethene	**54.4**		0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
Methyl tert-Butyl Ether	**50.9**		0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethane (1,1-DCA)	**48.6**		0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Acetate	**51.4**		0.47	5.0	1	10/20/2006	10/20/2006	U1020S01	
2,2-Dichloropropane	**54.5**		0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,2-Dichloroethene	**51.1**		0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Butanone (MEK)	**236**		5.0	25	1	10/20/2006	10/20/2006	U1020S01	
Bromochloromethane	**49.3**		0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroform	**48.1**		0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1-Trichloroethane (TCA)	**51.4**		0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloropropene	**51.8**		0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
Carbon Tetrachloride	**54.8**		0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
Benzene	**49.9**		0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloroethane (EDC)	**48.8**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichloroethene (TCE)	**49.9**		0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloropropane	**48.3**		0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dibromomethane	**48.5**		0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromodichloromethane	**49.6**		0.74	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,3-Dichloropropene	**50.9**		0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Methyl-2-pentanone (MIBK)	**237**		6.1	25	1	10/20/2006	10/20/2006	U1020S01	
Toluene	**47.4**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,3-Dichloropropene	**52.3**		0.65	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichloroethane	**47.9**		0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
Tetrachloroethene (PCE)	**51.5**		0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichloropropane	**48.3**		0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Hexanone	**242**		7.7	25	1	10/20/2006	10/20/2006	U1020S01	
Dibromochloromethane	**51.2**		0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064401.D
Lab Smp Id: U1020S01LCSD Client Smp ID: U1020S01LCSD
Inj Date : 20-OCT-2006 13:01
Operator : Reggie Inst ID: MSU.i
Smp Info : U1020S01LCSD;U1020S01LCSD
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\8260s5.m
Meth Date : 26-Oct-2006 09:35 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 16:41 Cal File: U064376.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12

Concentration Formula: Amt * DF * UF*5/(Ws*((100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 1	Fluorobenzene	96	6.435	6.435	(1.000)	1768113	50.0000	
* 2	Chlorobenzene-d5	117	10.222	10.222	(1.000)	1204962	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	296840	50.0000	
$ 5	Dibromofluoromethane	113	5.564	5.564	(0.865)	456511	46.7364	46.74
$ 6	1,2-Dichloroethane-d4	65	6.000	5.999	(0.587)	614872	46.4047	46.40
$ 7	Toluene-d8	98	8.450	8.450	(0.827)	1466584	45.8648	45.86
$ 8	Bromofluorobenzene	174	11.680	11.680	(0.892)	383143	45.8069	45.81
9	Dichlorodifluoromethane	85	1.250	1.250	(0.194)	213462	54.5741	54.57
10	Chloromethane	50	1.412	1.412	(0.220)	427407	53.1712	53.17
11	Vinyl chloride	62	1.483	1.483	(0.231)	335007	53.5637	53.56
12	Bromomethane	94	1.747	1.746	(0.271)	75181	53.7439	53.74
13	Chloroethane	64	1.828	1.827	(0.284)	129760	55.2246	55.22(Q)
14	Trichlorofluoromethane	101	2.050	2.050	(0.319)	423522	55.1029	55.10
16	1,1,2-Trichlorotrifluoroethane	101	2.546	2.546	(0.396)	277399	55.5214	55.52
18	1,1-Dichloroethene	96	2.546	2.546	(0.396)	224497	55.7377	55.74(Q)
19	Acetone	43	2.638	2.637	(0.410)	918365	239.200	239.2
21	Carbon disulfide	76	2.759	2.759	(0.429)	656858	50.8326	50.83
23	Methylene chloride	84	3.093	3.093	(0.481)	218840	48.6374	48.64(Q)
26	trans-1,2-Dichloroethene	96	3.417	3.417	(0.531)	362365	54.3969	54.40(Q)
27	tert-Butylmethylether	73	3.438	3.448	(0.534)	1113143	50.8999	50.90(Q)
29	1,1-Dichloroethane	63	4.015	4.015	(0.624)	958862	48.6035	48.60

Recheck

10-26-06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	30 Vinyl acetate	43	4.146	4.146	(0.644)	2865805	51.4242	51.42
	32 2,2-Dichloropropane	77	4.855	4.855	(0.755)	605318	54.5106	54.51(Q)
	33 cis-1,2-Dichloroethene	96	4.876	4.875	(0.758)	481937	51.1013	51.10(Q)
M	34 1,2-Dichloroethene (total)	96				844302	105.498	105.5
	35 2-Butanone	43	4.946	4.946	(0.769)	2113971	236.049	236.0
	36 Bromochloromethane	128	5.210	5.210	(0.810)	224507	49.3099	49.31(Q)
	37 Chloroform	83	5.341	5.341	(0.830)	754606	48.0793	48.08
	38 1,1,1-Trichloroethane	97	5.544	5.544	(0.862)	646582	51.3719	51.37
	39 1,1-Dichloropropene	75	5.777	5.777	(0.898)	573235	51.7544	51.75
	40 Carbon tetrachloride	119	5.757	5.756	(0.895)	534919	54.8359	54.84
	41 Benzene	78	6.050	6.050	(0.940)	1764802	49.8723	49.87(Q)
	43 1,2-Dichloroethane	62	6.101	6.101	(0.948)	767162	48.8034	48.80
	44 Trichloroethene	95	6.911	6.911	(1.074)	487104	49.8642	49.86
	45 1,2-Dichloropropane	63	7.205	7.204	(1.120)	575348	48.3196	48.32(Q)
	47 Dibromomethane	93	7.346	7.346	(1.142)	276312	48.4887	48.49
	48 Bromodichloromethane	83	7.569	7.569	(1.176)	583402	49.5900	49.59
	50 cis-1,3-Dichloropropene	75	8.136	8.136	(1.264)	712935	50.9194	50.92
	51 4-Methyl-2-pentanone	58	8.359	8.359	(1.299)	1345091	237.176	237.2(Q)
	52 Toluene	92	8.531	8.531	(0.835)	1054011	47.4353	47.44
	53 trans-1,3-Dichloropropene	75	8.845	8.845	(0.865)	659979	52.2596	52.26
	54 1,1,2-Trichloroethane	83	9.058	9.057	(0.886)	314115	47.8883	47.89
	55 Tetrachloroethene	166	9.189	9.189	(0.899)	534851	51.4895	51.49
	56 1,3-Dichloropropane	76	9.260	9.260	(0.906)	697997	48.3260	48.33(Q)
	57 2-Hexanone	43	9.392	9.402	(0.919)	2919374	242.446	242.4
	58 Dibromochloromethane	129	9.523	9.533	(0.932)	463234	51.2116	51.21
	59 1,2-Dibromoethane	107	9.645	9.645	(0.944)	425777	48.5179	48.52
	61 Chlorobenzene	112	10.253	10.252	(1.003)	1086998	48.0621	48.06
	62 1,1,1,2-Tetrachloroethane	131	10.364	10.374	(1.014)	465170	51.3686	51.37
	63 Ethylbenzene	91	10.404	10.404	(1.018)	1775574	47.8637	47.86
	64 m-,p-Xylene	106	10.546	10.556	(1.032)	1196034	96.1323	96.13
	65 o-Xylene	106	11.032	11.032	(1.079)	586434	47.8578	47.86
M	66 Xylene (total)	106				1782468	143.990	144.0
	67 Styrene	104	11.053	11.062	(1.081)	1005509	48.1215	48.12
	68 Bromoform	173	11.275	11.275	(1.103)	257770	54.3264	54.33
	69 Isopropylbenzene	105	11.488	11.498	(1.124)	1676789	49.1803	49.18
	70 1,1,2,2-Tetrachloroethane	83	11.893	11.893	(0.908)	318357	46.9924	46.99
	71 Bromobenzene	156	11.842	11.842	(0.904)	384736	45.9982	46.00
	72 1,2,3-Trichloropropane	110	11.923	11.923	(0.910)	120995	46.2106	46.21(Q)
	74 n-Propylbenzene	120	12.004	12.004	(0.917)	409655	49.8459	49.84
	76 2-Chlorotoluene	126	12.096	12.095	(0.923)	331334	47.3283	47.33(Q)
	77 1,3,5-Trimethylbenzene	105	12.227	12.227	(0.934)	1032127	46.7436	46.74
	78 4-Chlorotoluene	126	12.227	12.237	(0.934)	317125	47.4188	47.42(Q)
	79 tert-Butylbenzene	119	12.622	12.622	(0.964)	969521	45.5205	45.52
	80 1,2,4-Trimethylbenzene	105	12.683	12.683	(0.968)	973538	47.2129	47.21
	81 sec-Butylbenzene	105	12.885	12.895	(0.984)	1353811	49.3051	49.30
	82 1,3-Dichlorobenzene	146	13.007	13.007	(0.993)	479469	47.1335	47.13
	83 p-Isopropyltoluene	119	13.078	13.078	(0.998)	1028217	47.1750	47.18
	84 1,4-Dichlorobenzene	146	13.118	13.118	(1.002)	472832	47.4195	47.42
	85 n-Butylbenzene	91	13.584	13.584	(1.037)	776532	47.0227	47.02
	86 1,2-Dichlorobenzene	146	13.574	13.574	(1.036)	400223	46.5289	46.53
	87 1,2-Dibromo-3-chloropropane	75	14.546	14.546	(1.111)	150540	174.700	174.7(Q)
	88 1,2,4-Trichlorobenzene	180	15.559	15.559	(1.188)	279946	48.7252	48.72
	89 Hexachlorobutadiene	225	15.781	15.781	(1.205)	165779	47.6912	47.69
	90 Naphthalene	128	15.862	15.862	(1.211)	614667	47.1938	47.19

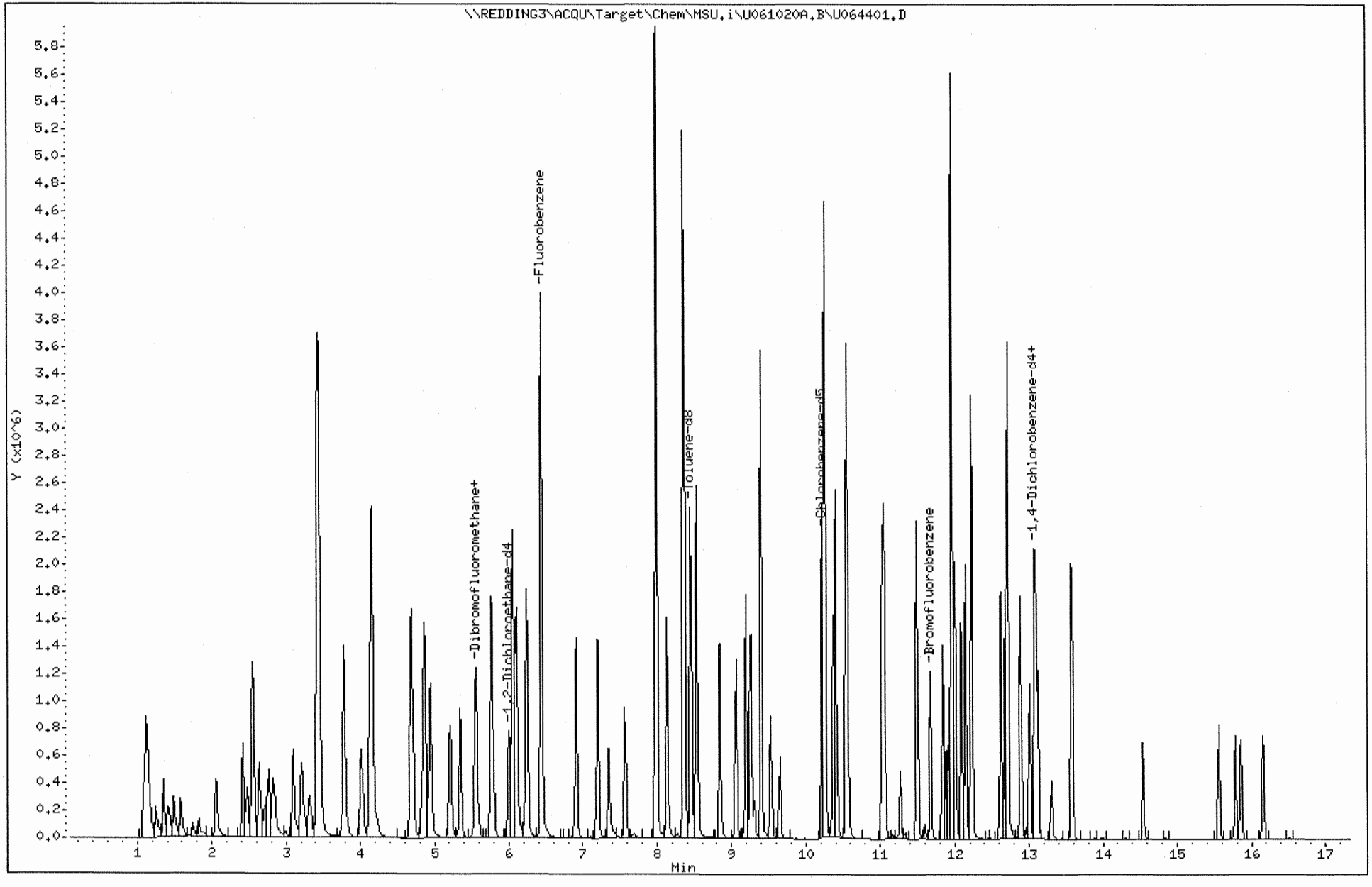
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
91 1,2,3-Trichlorobenzene	180	16.156	16.156	(1.233)	258618	46.2682	46.27

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064401.D
Date : 20-OCT-2006 13:01
Client ID: U1020S01LCSD
Sample Info: U1020S01LCSD;U1020S01LCSD
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: Reggie
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K1025W02
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloromethane	ND	U	0.24	1.0	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromomethane	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloroethane	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Acetone	ND	U	0.91	10	1	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	ND	U	0.14	2.0	1	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	ND	U	0.24	10	1	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	**1.2**	J	0.66	10	1	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	ND	U	0.17	0.50	1	10/26/2006	10/26/2006	K1025W02	
Chloroform	**0.16**	J	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
Benzene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	10/26/2006	10/26/2006	K1025W02	
Toluene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	ND	U	0.49	10	1	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	ND	U	0.12	1.0	1	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K1025W02
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	10/26/2006	10/26/2006	K1025W02	
Ethylbenzene	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	ND	U	0.10	1.5	1	10/26/2006	10/26/2006	K1025W02	
Styrene	ND	U	0.070	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromoform	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	ND	U	0.13	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	10/26/2006	10/26/2006	K1025W02	
Naphthalene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	104	79-135	10/26/2006	
4-Bromofluorobenzene - SS	112	82-124	10/26/2006	
Dibromofluoromethane - SS	111	84-127	10/26/2006	
Toluene-d8 - SS	103	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067913.D
Lab Smp Id: K1025W02 Client Smp ID: K1025W02
Inj Date : 26-OCT-2006 03:52
Operator : X Inst ID: MSK.i
Smp Info : K1025W02;K1025W02
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 35 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8/10/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	9.729	9.733	(1.000)	1926504	10.0000	
*	2 Chlorobenzene-d5	117	13.075	13.065	(1.000)	1139026	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.663	15.668	(1.000)	324032	10.0000	
$	4 Dibromofluoromethane	113	8.925	8.930	(0.917)	619310	11.0601	11.1
$	5 1,2-Dichloroethane-d4	65	9.327	9.331	(0.959)	596440	10.4161	10.4
$	6 Toluene-d8	98	11.469	11.473	(0.877)	1524035	10.2790	10.3
$	7 Bromofluorobenzene	174	14.340	14.329	(0.915)	362751	11.2044	11.2
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	Compound Not Detected.					
	12 Bromomethane	94	Compound Not Detected.					
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	17 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Methylene chloride	84	Compound Not Detected.					
	26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	27 tert-Butylmethylether	73	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 Vinyl acetate	43	Compound Not Detected.					

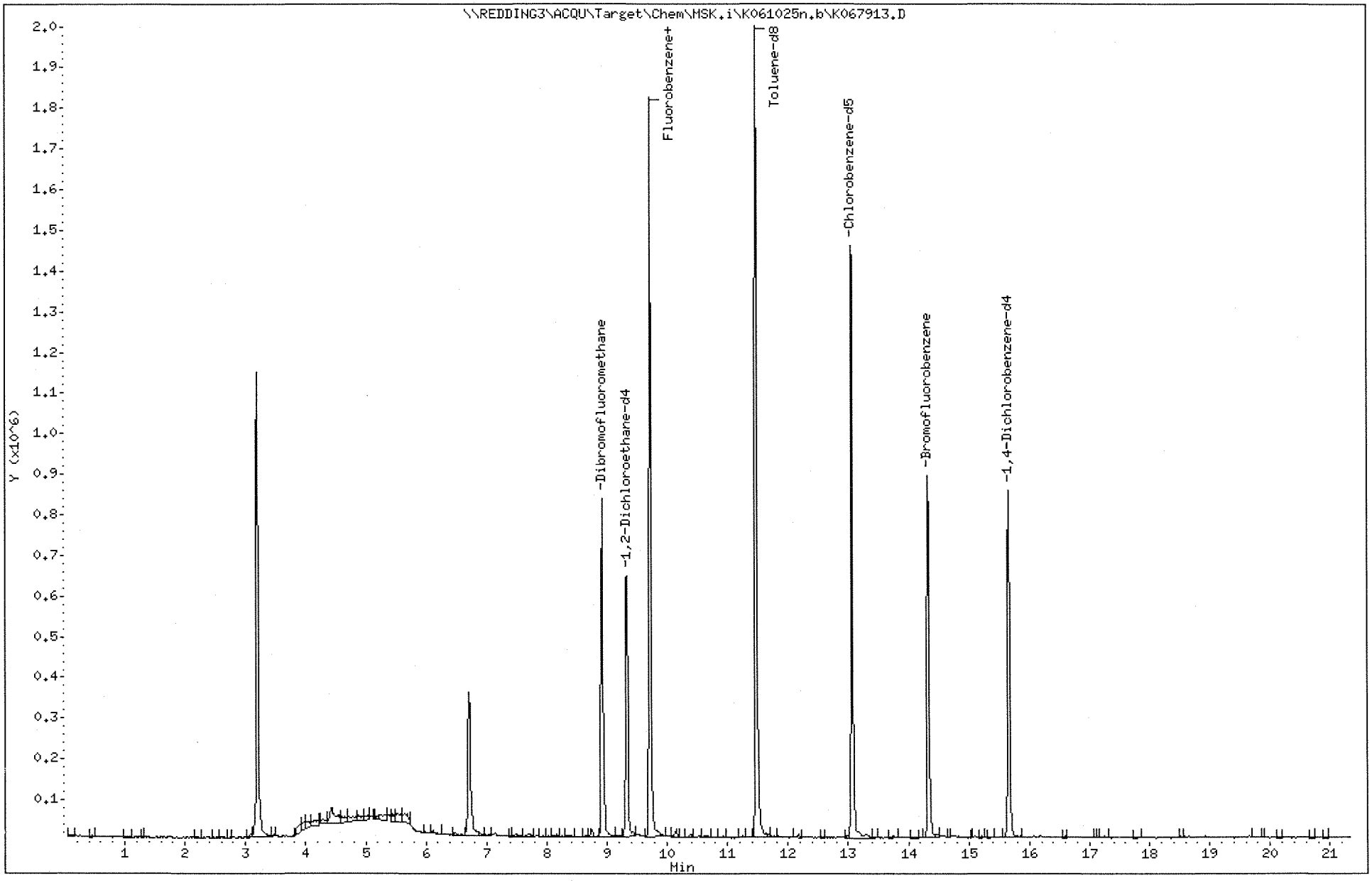
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.345	8.350	(0.858)	7426	1.16762	1.17(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.732	8.736	(0.898)	16399	0.16456	0.164(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.729	9.421	(1.000)	27285	0.39383	0.394(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	19.144	19.148	(1.222)	2622	1.11696	1.12
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067913.D
Date : 26-OCT-2006 03:52
Client ID: K1025W02
Sample Info: K1025W02;K1025W02
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



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Date : 26-OCT-2006 03:52

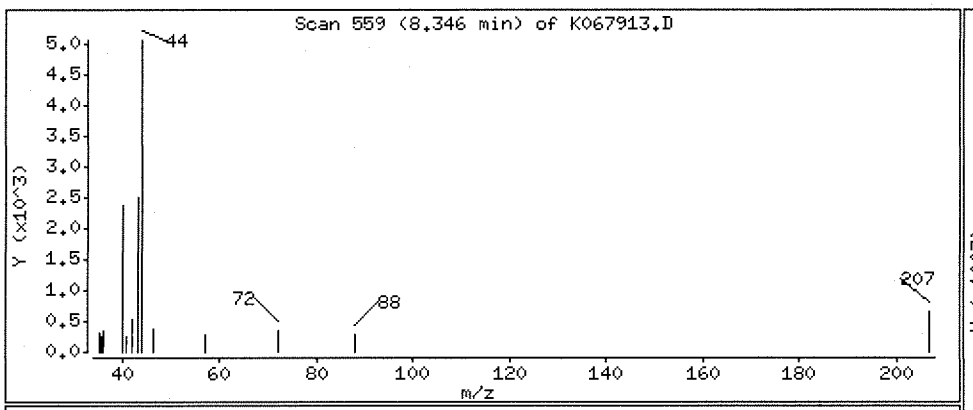
Client ID: K1025W02 Instrument: MSK.i

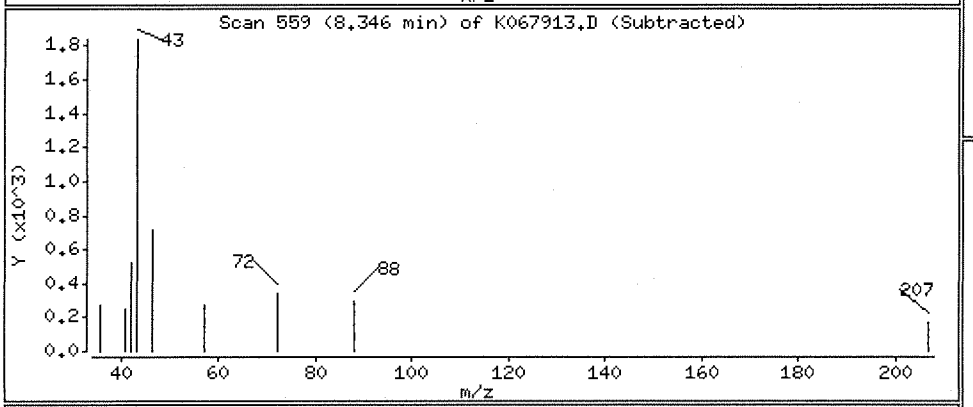
Sample Info: K1025W02;K1025W02

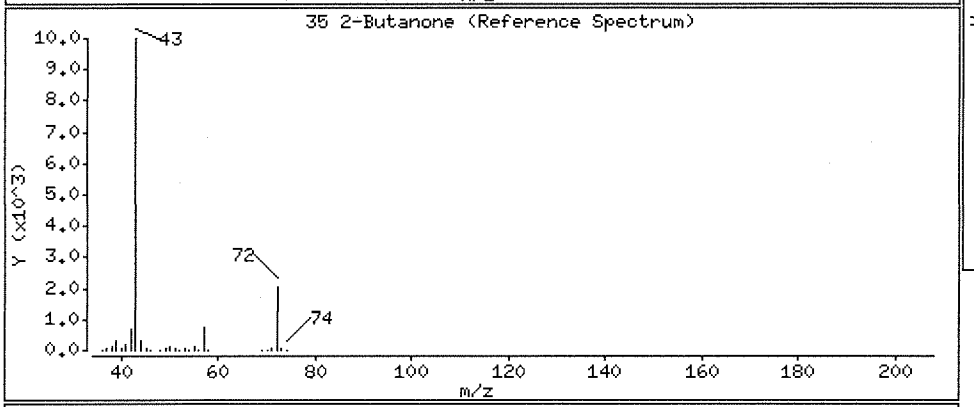
Purge Volume: 10.0 Operator: X

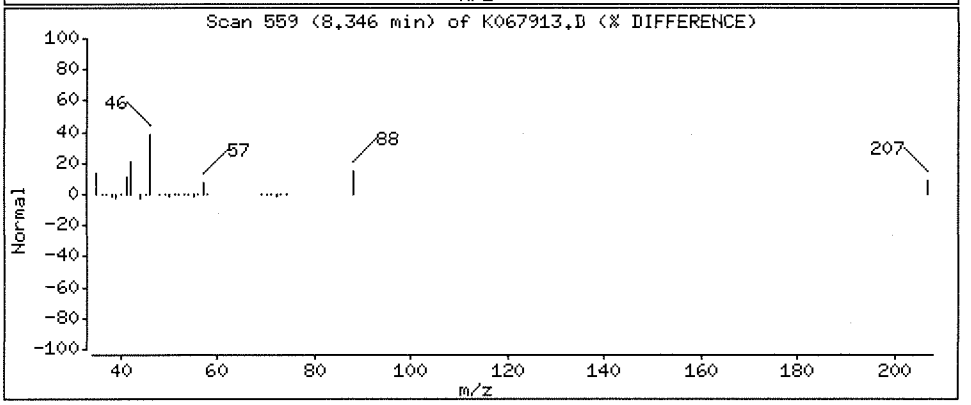
Column phase: DB-624 Column diameter: 0.32

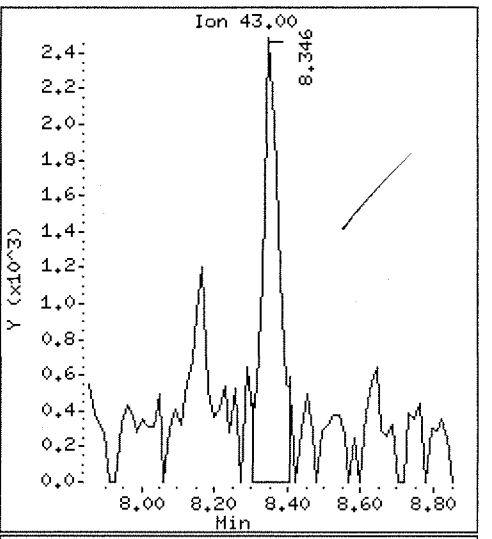
35 2-Butanone Concentration: 1.17 ug/L

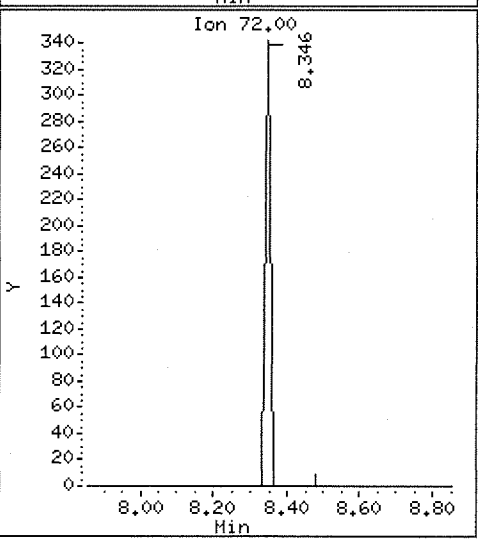












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Date : 26-OCT-2006 03:52

Client ID: K1025W02

Instrument: MSK.i

Sample Info: K1025W02;K1025W02

Purge Volume: 10.0

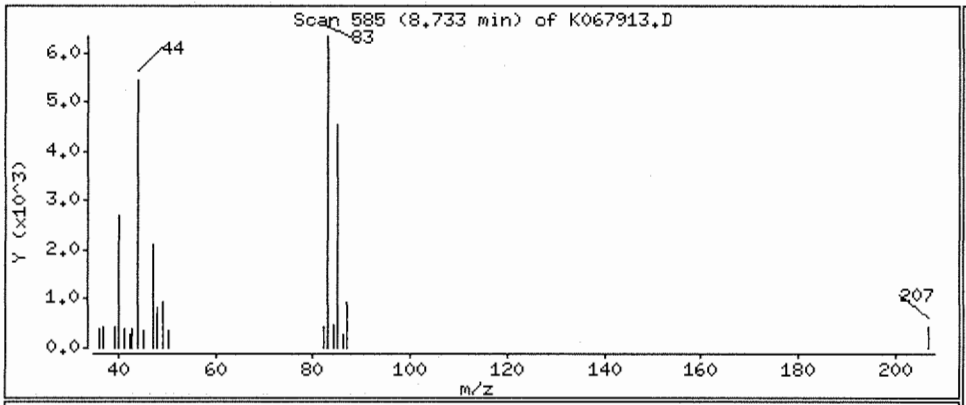
Operator: X

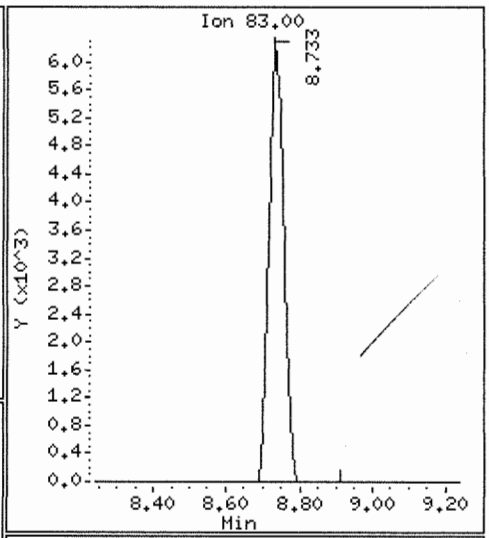
Column phase: DB-624

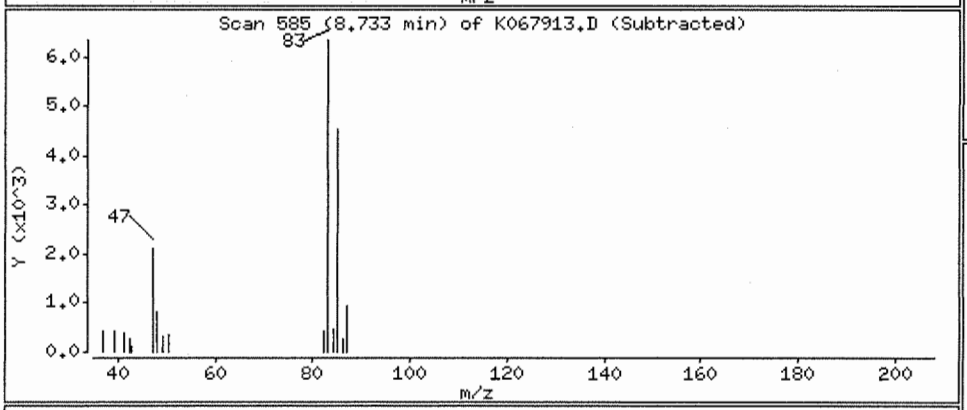
Column diameter: 0.32

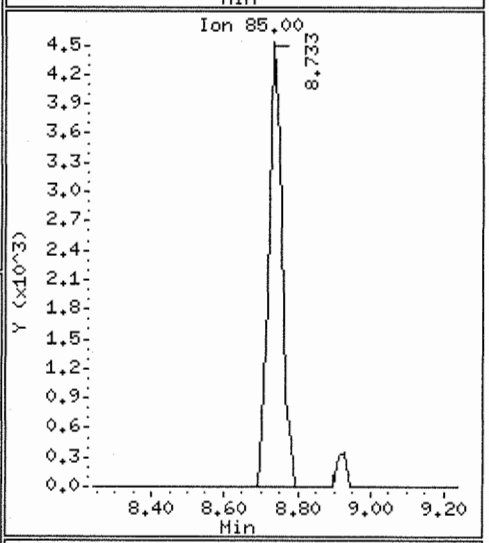
37 Chloroform

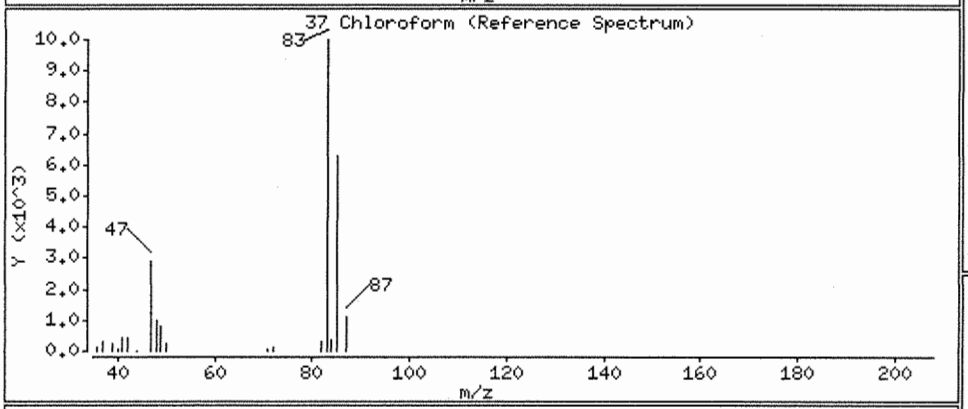
Concentration: 0.164 ug/L

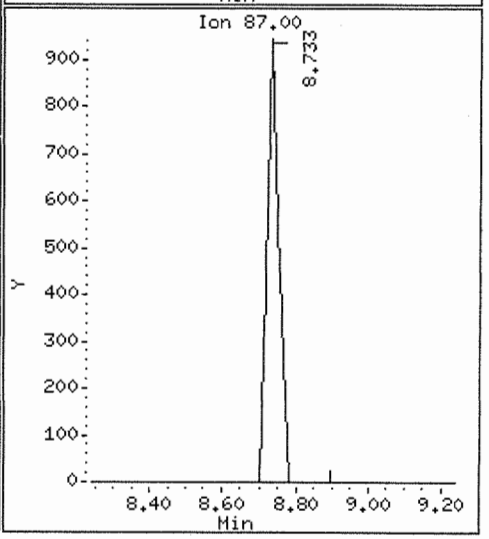


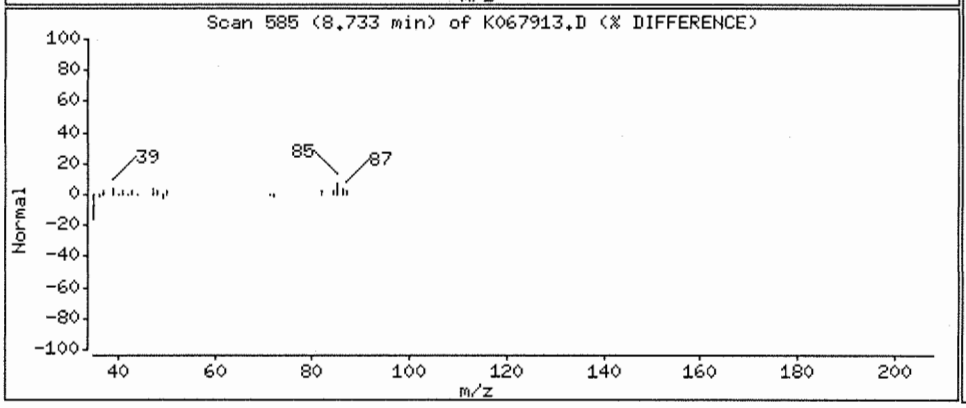












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067913.D

Date : 26-OCT-2006 03:52

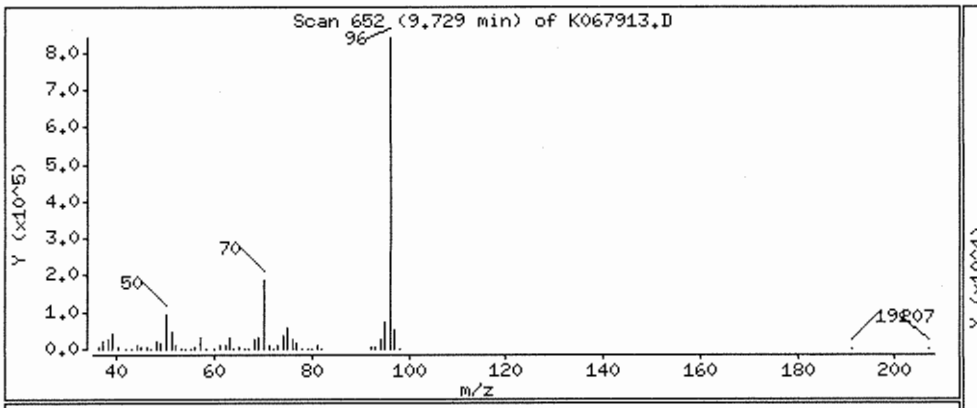
Client ID: K1025W02 Instrument: MSK.i

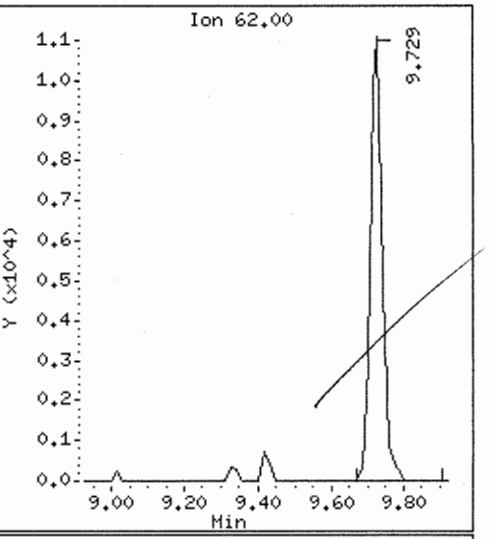
Sample Info: K1025W02;K1025W02

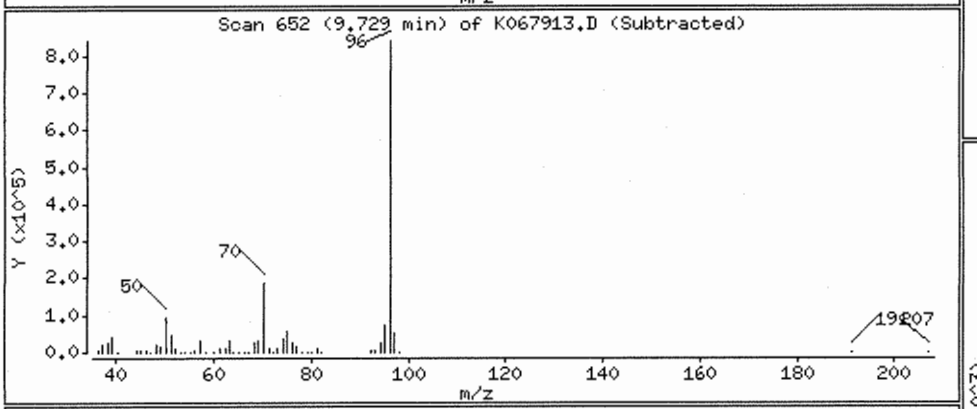
Purge Volume: 10.0 Operator: X

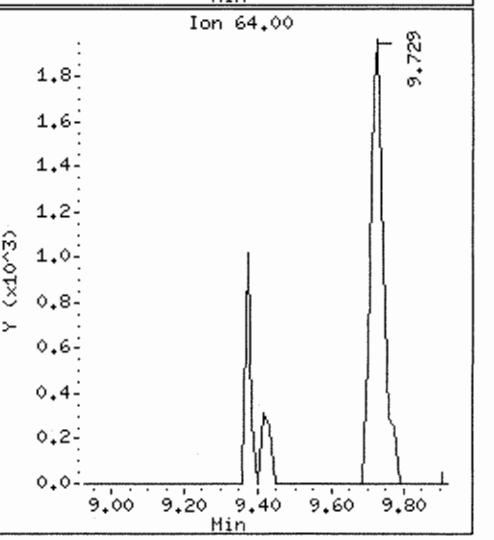
Column phase: DB-624 Column diameter: 0.32

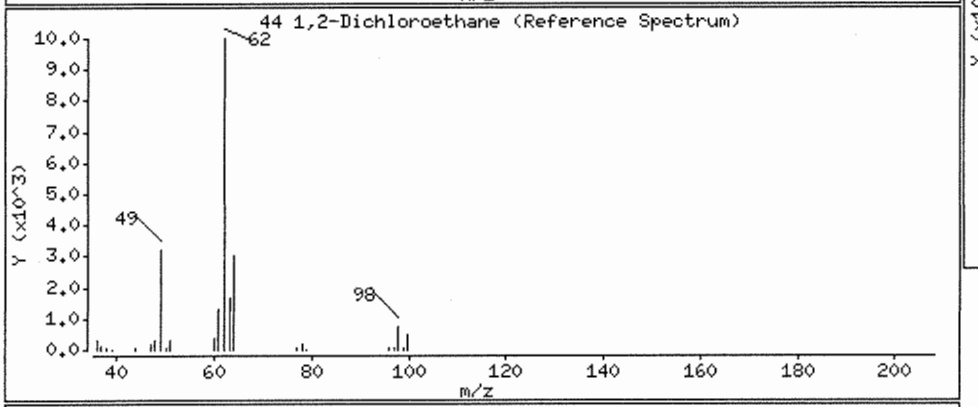
44 1,2-Dichloroethane Concentration: 0.394 ug/L

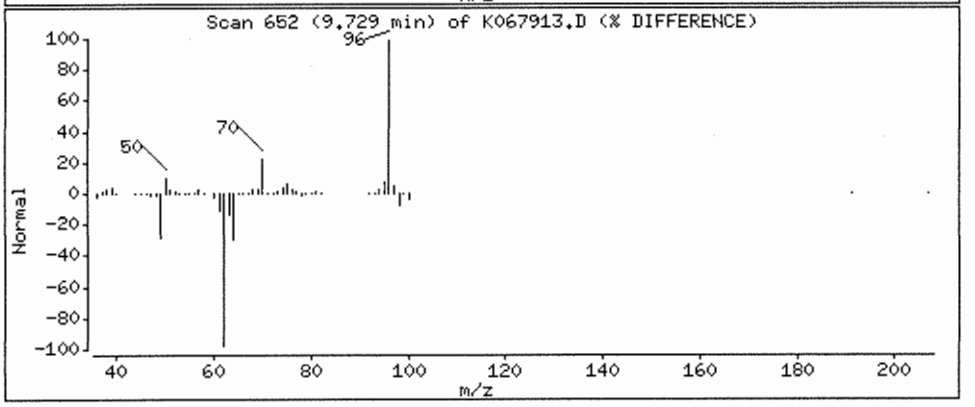












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067913.D

Date : 26-OCT-2006 03:52

Client ID: K1025W02

Instrument: MSK.i

Sample Info: K1025W02;K1025W02

Purge Volume: 10.0

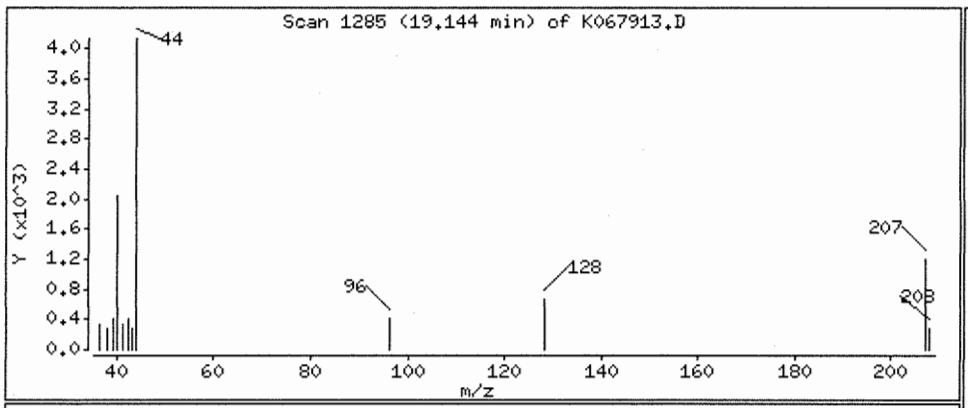
Operator: X

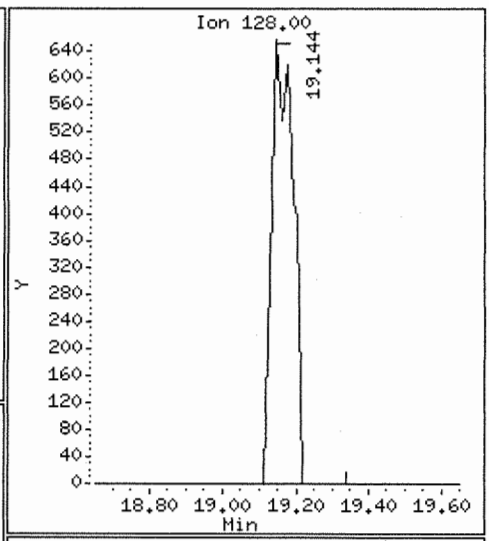
Column phase: DB-624

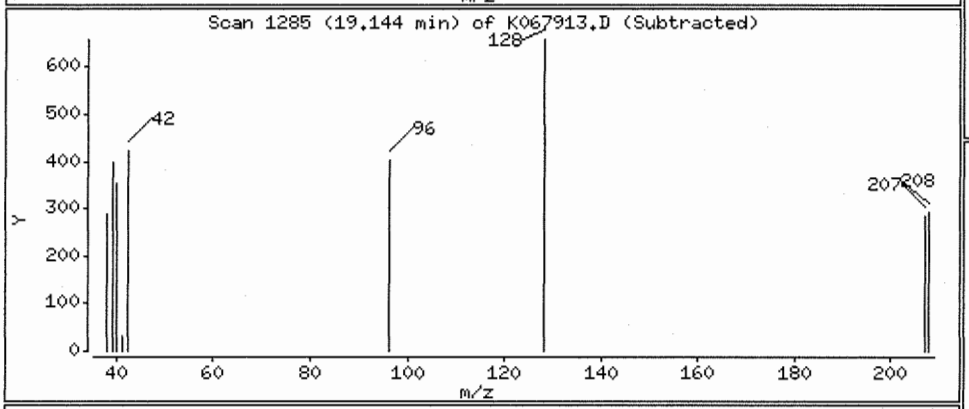
Column diameter: 0.32

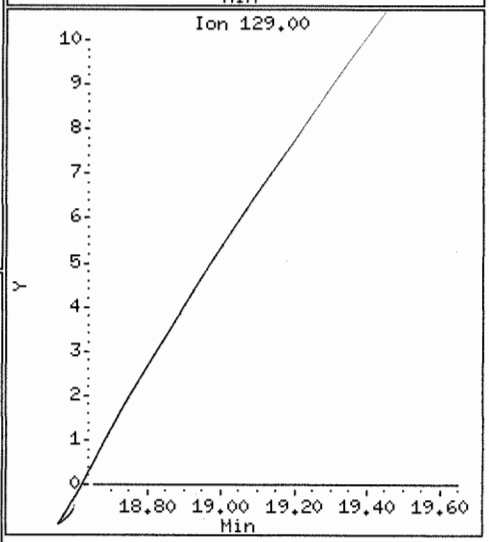
92 Naphthalene

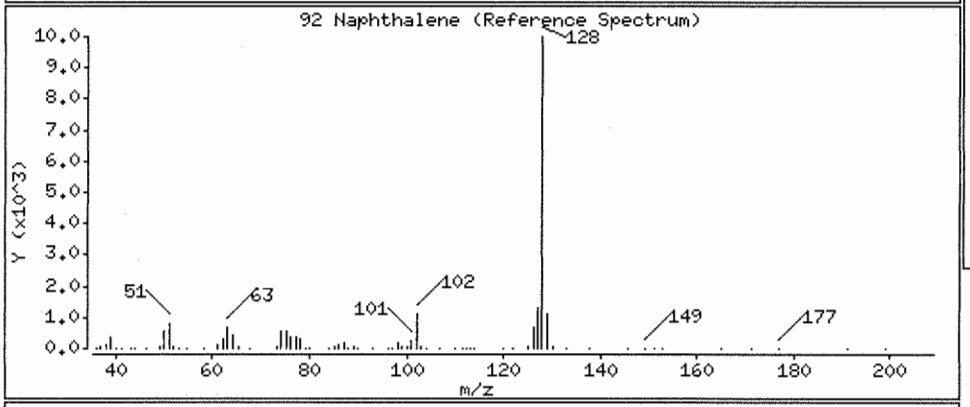
Concentration: 1.12 ug/L

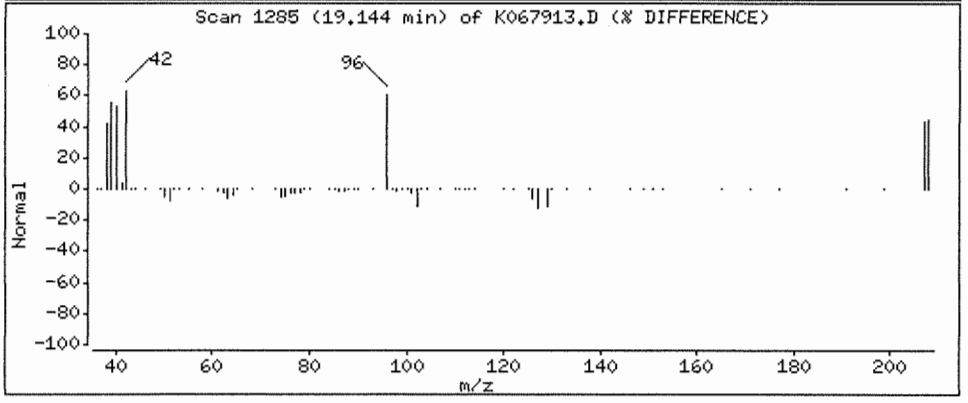












COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: K1025W02LCS
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**9.52**		0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloromethane	**10.2**		0.24	1.0	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	**10.4**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromomethane	**9.20**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloroethane	**10.4**		0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	**10.7**		0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	**10.1**		0.15	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	**10.9**		0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Acetone	**48.8**		0.91	10	1	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	**9.76**		0.14	2.0	1	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	**10.0**		0.19	2.0	1	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	**9.96**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	**9.86**		0.11	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	**10.3**		0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	**8.76**	J	0.24	10	1	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	**7.95**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	**10.5**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	**45.1**		0.66	10	1	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	**9.72**		0.17	0.50	1	10/26/2006	10/26/2006	K1025W02	
Chloroform	**10.1**		0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	**9.70**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	**10.3**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	**10.2**		0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
Benzene	**10.2**		0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	**9.65**		0.10	0.50	1	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	**9.75**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	**9.85**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	**9.56**		0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	**9.73**		0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	**9.23**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	**43.2**		0.56	10	1	10/26/2006	10/26/2006	K1025W02	
Toluene	**9.96**		0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	**9.43**		0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	**9.78**		0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	**10.2**		0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	**10.1**		0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	**47.6**		0.49	10	1	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	**9.88**		0.12	1.0	1	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample
Lab Code: K1025W02LCS
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**9.43**		0.19	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	**9.58**		0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1,2-Tetrachloroethane	**9.91**		0.19	0.50	1	10/26/2006	10/26/2006	K1025W02	
Ethylbenzene	**10.1**		0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	**29.9**		0.10	1.5	1	10/26/2006	10/26/2006	K1025W02	
Styrene	**10.0**		0.070	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromoform	**9.29**		0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	**10.1**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	**9.79**		0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	**9.91**		0.13	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichloropropane	**9.44**		0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	**9.74**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	**9.55**		0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	**9.84**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	**9.77**		0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	**10.4**		0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	**10.2**		0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	**10.4**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	**9.74**		0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	**9.80**		0.060	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	**9.34**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	**9.51**		0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	**9.79**		0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	**37.9**		0.95	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	**9.13**		0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	**8.95**		0.26	1.0	1	10/26/2006	10/26/2006	K1025W02	
Naphthalene	**8.58**		0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	**9.20**		0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	93	79-135	10/26/2006	
4-Bromofluorobenzene - SS	99	82-124	10/26/2006	
Dibromofluoromethane - SS	101	84-127	10/26/2006	
Toluene-d8 - SS	104	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067910.D
Lab Smp Id: K1025W02LCS Client Smp ID: K1025W02LCS
Inj Date : 26-OCT-2006 02:32
Operator : X Inst ID: MSK.i
Smp Info : K1025W02LCS;K1025W02LCS
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8/14/27/06

2/5/26/4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	9.728	9.733	(1.000)	2177633	10.0000	
*	2 Chlorobenzene-d5	117	13.060	13.065	(1.000)	1221166	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.663	15.668	(1.000)	412283	10.0000	
$	4 Dibromofluoromethane	113	8.925	8.930	(0.917)	636825	10.0613	10.1
$	5 1,2-Dichloroethane-d4	65	9.327	9.331	(0.959)	603745	9.32774	9.33
$	6 Toluene-d8	98	11.469	11.473	(0.878)	1659619	10.4405	10.4
$	7 Bromofluorobenzene	174	14.339	14.329	(0.915)	409363	9.93760	9.94
	8 Dichlorodifluoromethane	85	3.526	3.531	(0.362)	343384	9.51636	9.52(Q)
	10 Chloromethane	50	3.868	3.873	(0.398)	359250	10.1934	10.2
	11 Vinyl chloride	62	4.076	4.081	(0.419)	447901	10.4384	10.4
	12 Bromomethane	94	4.686	4.691	(0.482)	311501	9.20032	9.20
	13 Chloroethane	64	4.865	4.854	(0.500)	241587	10.4175	10.4
	14 Trichlorofluoromethane	101	5.296	5.301	(0.544)	564999	10.7125	10.7
	15 1,1,2-Trichlorotrifluoroethane	101	6.084	6.089	(0.625)	501218	10.1051	10.1
	17 1,1-Dichloroethene	96	6.099	6.104	(0.627)	459834	10.9252	10.9
	18 Acetone	43	6.114	6.119	(0.628)	582901	48.8457	48.8
	21 Carbon disulfide	76	6.486	6.490	(0.667)	1863901	9.76269	9.76
	22 Methylene chloride	84	6.754	6.758	(0.694)	666437	10.0360	10.0
	26 trans-1,2-Dichloroethene	96	7.140	7.145	(0.734)	538059	9.96420	9.96
	27 tert-Butylmethylether	73	7.125	7.130	(0.732)	1166756	9.86280	9.86(Q)
	28 1,1-Dichloroethane	63	7.676	7.680	(0.789)	1100133	10.3068	10.3
	30 Vinyl acetate	43	7.676	7.680	(0.789)	1760347	8.75945	8.76(a)

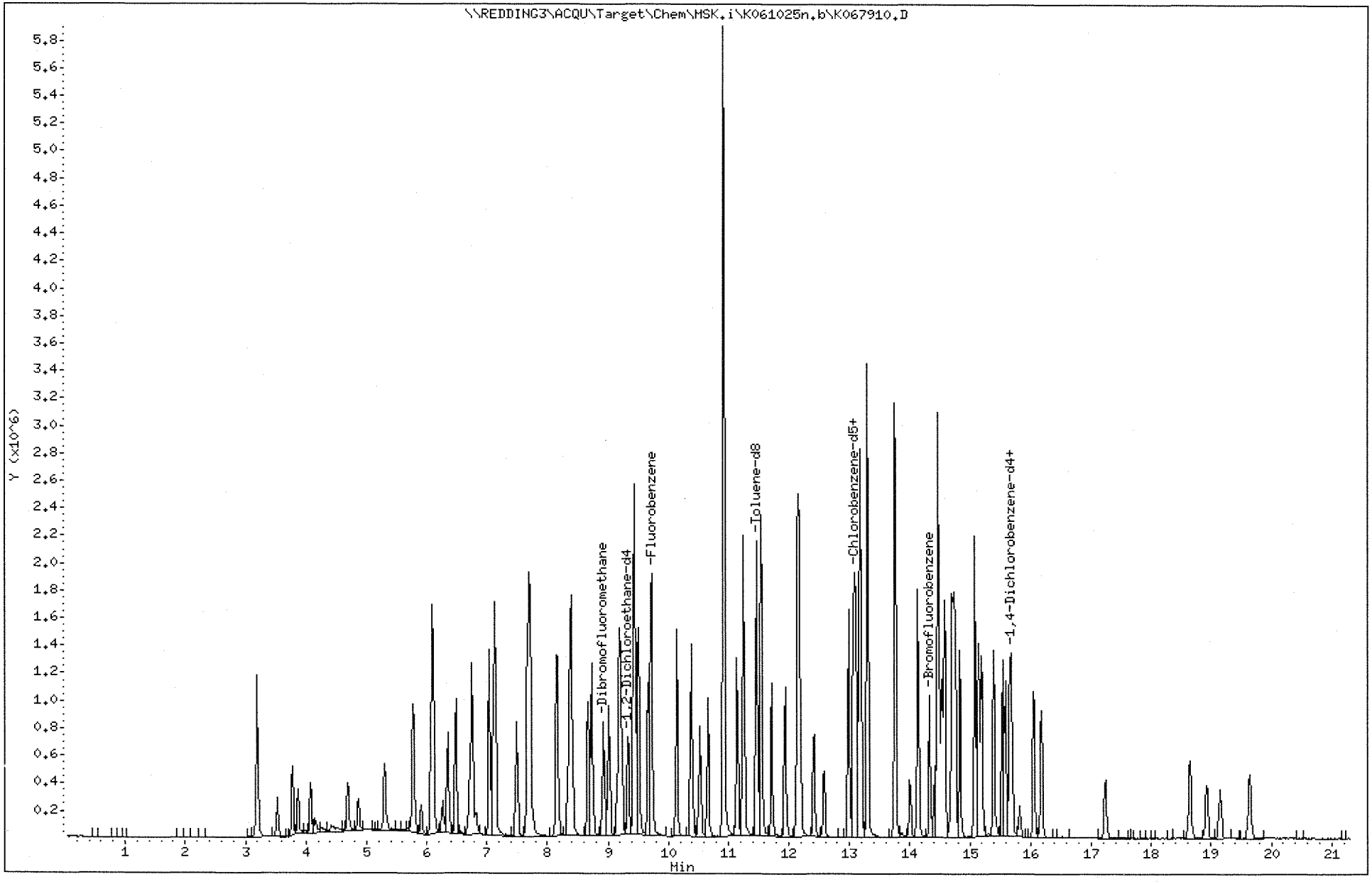
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	8.405	8.409	(0.864)	618238	7.94737	7.95(Q)
33	cis-1,2-Dichloroethene	96	8.375	8.379	(0.861)	631239	10.4724	10.5
35	2-Butanone	43	8.345	8.350	(0.858)	904970	45.0734	45.1
36	Bromochloromethane	128	8.672	8.677	(0.891)	318482	9.72371	9.72
37	Chloroform	83	8.732	8.736	(0.898)	1139688	10.1177	10.1
38	1,1,1-Trichloroethane	97	9.014	9.019	(0.927)	734805	9.69628	9.70(Q)
40	1,1-Dichloropropene	75	9.193	9.197	(0.945)	752986	10.3104	10.3
41	Carbon tetrachloride	119	9.223	9.227	(0.948)	602786	10.1947	10.2
43	Benzene	78	9.446	9.435	(0.971)	2378374	10.1802	10.2
44	1,2-Dichloroethane	62	9.416	9.421	(0.968)	756058	9.65436	9.65
45	Trichloroethene	95	10.145	10.149	(1.043)	604649	9.75196	9.75
46	1,2-Dichloropropane	63	10.383	10.387	(1.067)	641144	9.84781	9.85
48	Dibromomethane	93	10.532	10.536	(1.083)	382236	9.56065	9.56
49	Bromodichloromethane	83	10.665	10.670	(1.096)	809390	9.72683	9.73
51	cis-1,3-Dichloropropene	75	11.141	11.146	(1.145)	891803	9.22776	9.23
52	4-Methyl-2-pentanone	43	11.260	11.265	(1.157)	2172299	43.1814	43.2
53	Toluene	92	11.543	11.548	(0.884)	1198126	9.95617	9.96
54	trans-1,3-Dichloropropene	75	11.722	11.726	(0.898)	726030	9.43194	9.43
55	1,1,2-Trichloroethane	83	11.945	11.949	(0.915)	407642	9.78228	9.78
56	Tetrachloroethene	166	12.183	12.172	(0.933)	608081	10.2304	10.2
57	1,3-Dichloropropane	76	12.138	12.143	(0.929)	784359	10.0846	10.1
58	2-Hexanone	43	12.153	12.157	(0.931)	1299349	47.6001	47.6
59	Dibromochloromethane	129	12.421	12.410	(0.951)	556230	9.87561	9.88
60	1,2-Dibromoethane	107	12.584	12.574	(0.964)	442942	9.42890	9.43
62	Chlorobenzene	112	13.105	13.109	(1.003)	1228427	9.58555	9.58(Q)
63	1,1,1,2-Tetrachloroethane	131	13.164	13.169	(1.008)	512860	9.90821	9.91
64	Ethylbenzene	91	13.179	13.184	(1.009)	1887616	10.1210	10.1
65	m-,p-Xylene	106	13.298	13.303	(1.018)	1214284	19.8246	19.8
66	o-Xylene	106	13.744	13.749	(1.052)	568967	10.0505	10.0
M 67	Xylene (total)	106				1783251	29.8751	29.9
68	Styrene	104	13.759	13.749	(1.054)	979237	10.0149	10.0
69	Bromoform	173	13.997	14.002	(1.072)	274129	9.29293	9.29
70	Isopropylbenzene	105	14.131	14.136	(1.082)	1426583	10.0607	10.1
71	1,1,2,2-Tetrachloroethane	83	14.414	14.418	(0.920)	379090	9.78761	9.79
72	Bromobenzene	156	14.548	14.537	(0.929)	447925	9.90938	9.91
73	1,2,3-Trichloropropane	110	14.503	14.508	(0.926)	85947	9.44501	9.44(Q)
74	n-Propylbenzene	120	14.577	14.582	(0.931)	352053	9.74500	9.74
76	2-Chlorotoluene	126	14.726	14.731	(0.940)	337094	9.54874	9.55
78	1,3,5-Trimethylbenzene	105	14.756	14.760	(0.942)	1000868	9.83826	9.84(Q)
79	4-Chlorotoluene	126	14.830	14.835	(0.947)	348918	9.77365	9.77
80	tert-Butylbenzene	119	15.143	15.147	(0.967)	963731	10.3841	10.4
81	1,2,4-Trimethylbenzene	105	15.187	15.192	(0.970)	975842	10.2547	10.2
82	sec-Butylbenzene	105	15.395	15.400	(0.983)	1201879	10.4551	10.4
83	1,3-Dichlorobenzene	146	15.589	15.593	(0.995)	675679	9.74254	9.74
84	p-Isopropyltoluene	119	15.544	15.549	(0.992)	926626	9.80585	9.80
85	1,4-Dichlorobenzene	146	15.693	15.697	(1.002)	681302	9.33690	9.34
87	n-Butylbenzene	91	16.050	16.054	(1.025)	894773	9.50663	9.51
88	1,2-Dichlorobenzene	146	16.184	16.188	(1.033)	613868	9.78891	9.79
89	1,2-Dibromo-3-chloropropane	75	17.225	17.229	(1.100)	180108	37.9168	37.9(Q)
90	1,2,4-Trichlorobenzene	180	18.653	18.657	(1.191)	343247	9.13424	9.13
91	Hexachlorobutadiene	225	18.935	18.925	(1.209)	173551	8.94857	8.95
92	Naphthalene	128	19.159	19.148	(1.223)	540718	8.57984	8.58
93	1,2,3-Trichlorobenzene	180	19.649	19.654	(1.254)	310396	9.19933	9.20

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067910.D
Date : 26-OCT-2006 02:32
Client ID: K1025W02LCS
Sample Info: K1025W02LCS;K1025W02LCS
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: K1025W02LCSD
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	**9.48**		0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloromethane	**9.45**		0.24	1.0	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	**10.8**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromomethane	**9.15**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloroethane	**10.4**		0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	**11.3**		0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	**10.6**		0.15	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	**11.4**		0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Acetone	**51.0**		0.91	10	1	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	**9.95**		0.14	2.0	1	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	**10.0**		0.19	2.0	1	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	**10.2**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	**10.2**		0.11	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	**10.6**		0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	**8.58**	J	0.24	10	1	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	**8.16**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	**10.8**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	**46.2**		0.66	10	1	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	**10.2**		0.17	0.50	1	10/26/2006	10/26/2006	K1025W02	
Chloroform	**10.3**		0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	**9.94**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	**10.6**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	**10.5**		0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
Benzene	**10.6**		0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	**10.1**		0.10	0.50	1	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	**10.1**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	**10.0**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	**9.60**		0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	**9.71**		0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	**9.32**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	**43.2**		0.56	10	1	10/26/2006	10/26/2006	K1025W02	
Toluene	**10.2**		0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	**9.91**		0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	**9.87**		0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	**10.4**		0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	**10.6**		0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	**49.5**		0.49	10	1	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	**9.82**		0.12	1.0	1	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Laboratory Control Sample Duplicate
Lab Code: K1025W02LCSD
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**9.71**		0.19	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	**9.57**		0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1,2-Tetrachloroethane	**9.74**		0.19	0.50	1	10/26/2006	10/26/2006	K1025W02	
Ethylbenzene	**9.99**		0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	**29.6**		0.10	1.5	1	10/26/2006	10/26/2006	K1025W02	
Styrene	**9.87**		0.070	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromoform	**9.28**		0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	**9.90**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	**8.82**		0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	**9.56**		0.13	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichloropropane	**8.76**		0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	**9.14**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	**9.49**		0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	**9.54**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	**9.17**		0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	**10.1**		0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	**10.3**		0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	**10.4**		0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	**9.54**		0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	**9.77**		0.060	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	**9.26**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	**9.46**		0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	**9.66**		0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	**36.6**		0.95	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	**9.04**		0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	**8.96**		0.26	1.0	1	10/26/2006	10/26/2006	K1025W02	
Naphthalene	**8.66**		0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	**9.22**		0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	95	79-135	10/26/2006	
4-Bromofluorobenzene - SS	95	82-124	10/26/2006	
Dibromofluoromethane - SS	104	84-127	10/26/2006	
Toluene-d8 - SS	104	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067911.D
Lab Smp Id: K1025W02LCSD Client Smp ID: K1025W02LCSD
Inj Date : 26-OCT-2006 02:59
Operator : X Inst ID: MSK.i
Smp Info : K1025W02LCSD;K1025W02LCSD
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 33 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8/9/26/06
R 10/24/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	9.728	9.733	(1.000)	2246957	10.0000	
*	2 Chlorobenzene-d5	117	13.060	13.065	(1.000)	1232067	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.663	15.668	(1.000)	427647	10.0000	
$	4 Dibromofluoromethane	113	8.925	8.930	(0.917)	677998	10.3813	10.4
$	5 1,2-Dichloroethane-d4	65	9.327	9.331	(0.959)	637642	9.54750	9.55
$	6 Toluene-d8	98	11.468	11.473	(0.878)	1663284	10.3710	10.4
$	7 Bromofluorobenzene	174	14.339	14.329	(0.915)	405307	9.48565	9.48
	8 Dichlorodifluoromethane	85	3.526	3.531	(0.362)	352969	9.48020	9.48(Q)
	10 Chloromethane	50	3.868	3.873	(0.398)	343693	9.45115	9.45
	11 Vinyl chloride	62	4.076	4.081	(0.419)	476312	10.7580	10.8
	12 Bromomethane	94	4.686	4.691	(0.482)	319548	9.14680	9.15
	13 Chloroethane	64	4.864	4.854	(0.500)	250278	10.4593	10.4
	14 Trichlorofluoromethane	101	5.296	5.301	(0.544)	613662	11.2761	11.3
	15 1,1,2-Trichlorotrifluoroethane	101	6.084	6.089	(0.625)	540356	10.5581	10.6
	17 1,1-Dichloroethene	96	6.099	6.104	(0.627)	493120	11.3546	11.4
	18 Acetone	43	6.114	6.119	(0.628)	625485	50.9862	51.0
	21 Carbon disulfide	76	6.486	6.490	(0.667)	1960832	9.95353	9.95
	22 Methylene chloride	84	6.753	6.758	(0.694)	684931	9.99631	10.0
	26 trans-1,2-Dichloroethene	96	7.140	7.145	(0.734)	571287	10.2531	10.2
	27 tert-Butylmethylether	73	7.125	7.130	(0.732)	1247664	10.2213	10.2(Q)
	28 1,1-Dichloroethane	63	7.676	7.680	(0.789)	1168499	10.6095	10.6
	30 Vinyl acetate	43	7.676	7.680	(0.789)	1779888	8.58344	8.58(a)

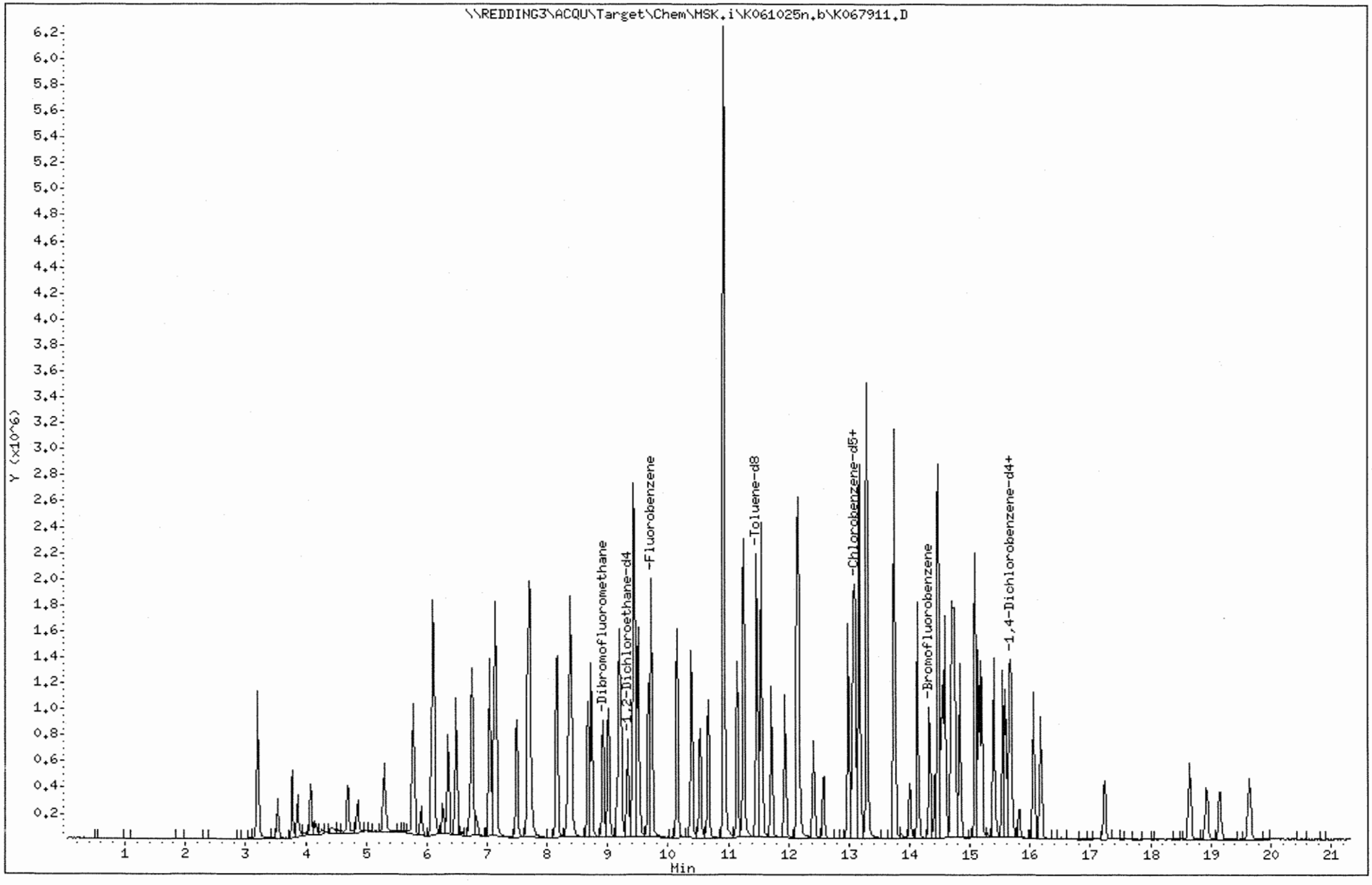
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	8.404	8.409	(0.864)	654925	8.15923	8.16(Q)
33	cis-1,2-Dichloroethene	96	8.390	8.379	(0.862)	669935	10.7714	10.8
35	2-Butanone	43	8.345	8.350	(0.858)	958583	46.2506	46.2
36	Bromochloromethane	128	8.672	8.677	(0.891)	345090	10.2110	10.2(Q)
37	Chloroform	83	8.732	8.736	(0.898)	1197968	10.3070	10.3
38	1,1,1-Trichloroethane	97	9.014	9.019	(0.927)	777552	9.94380	9.94(Q)
40	1,1-Dichloropropene	75	9.193	9.197	(0.945)	797505	10.5831	10.6
41	Carbon tetrachloride	119	9.223	9.227	(0.948)	641805	10.5197	10.5
43	Benzene	78	9.446	9.435	(0.971)	2545174	10.5581	10.6
44	1,2-Dichloroethane	62	9.416	9.421	(0.968)	817901	10.1218	10.1
45	Trichloroethene	95	10.145	10.149	(1.043)	647752	10.1248	10.1
46	1,2-Dichloropropane	63	10.383	10.387	(1.067)	674644	10.0427	10.0
48	Dibromomethane	93	10.531	10.536	(1.083)	395947	9.59805	9.60
49	Bromodichloromethane	83	10.665	10.670	(1.096)	833988	9.71322	9.71
51	cis-1,3-Dichloropropene	75	11.141	11.146	(1.145)	929521	9.32130	9.32
52	4-Methyl-2-pentanone	43	11.260	11.265	(1.157)	2240761	43.1681	43.2
53	Toluene	92	11.543	11.548	(0.884)	1245225	10.2560	10.2
54	trans-1,3-Dichloropropene	75	11.721	11.726	(0.898)	769464	9.90776	9.91
55	1,1,2-Trichloroethane	83	11.944	11.949	(0.915)	414903	9.86843	9.87
56	Tetrachloroethene	166	12.182	12.172	(0.933)	622930	10.3875	10.4
57	1,3-Dichloropropane	76	12.138	12.143	(0.929)	834418	10.6333	10.6
58	2-Hexanone	43	12.153	12.157	(0.931)	1363954	49.5248	49.5
59	Dibromochloromethane	129	12.420	12.410	(0.951)	558009	9.81954	9.82
60	1,2-Dibromoethane	107	12.584	12.574	(0.964)	460190	9.70939	9.71
62	Chlorobenzene	112	13.105	13.109	(1.003)	1237901	9.57401	9.57(Q)
63	1,1,1,2-Tetrachloroethane	131	13.164	13.169	(1.008)	508507	9.73719	9.74
64	Ethylbenzene	91	13.179	13.184	(1.009)	1880366	9.99295	9.99
65	m-,p-Xylene	106	13.298	13.303	(1.018)	1209687	19.5749	19.6
66	o-Xylene	106	13.744	13.749	(1.052)	572814	10.0289	10.0
M 67	Xylene (total)	106				1782501	29.6038	29.6
68	Styrene	104	13.759	13.749	(1.054)	973737	9.87053	9.87
69	Bromoform	173	13.997	14.002	(1.072)	276354	9.28547	9.28
70	Isopropylbenzene	105	14.131	14.136	(1.082)	1415961	9.89742	9.90
71	1,1,2,2-Tetrachloroethane	83	14.414	14.418	(0.920)	360606	8.81619	8.82
72	Bromobenzene	156	14.547	14.537	(0.929)	449973	9.55589	9.56
73	1,2,3-Trichloropropane	110	14.503	14.508	(0.926)	84307	8.75953	8.76(Q)
74	n-Propylbenzene	120	14.577	14.582	(0.931)	342450	9.13863	9.14
76	2-Chlorotoluene	126	14.726	14.731	(0.940)	347417	9.48759	9.49
78	1,3,5-Trimethylbenzene	105	14.756	14.760	(0.942)	1007293	9.54569	9.54(Q)
79	4-Chlorotoluene	126	14.830	14.835	(0.947)	339527	9.16891	9.17
80	tert-Butylbenzene	119	15.142	15.147	(0.967)	975107	10.1292	10.1
81	1,2,4-Trimethylbenzene	105	15.187	15.192	(0.970)	1013804	10.2709	10.3
82	sec-Butylbenzene	105	15.395	15.400	(0.983)	1235577	10.3621	10.4
83	1,3-Dichlorobenzene	146	15.589	15.593	(0.995)	686414	9.54175	9.54
84	p-Isopropyltoluene	119	15.544	15.549	(0.992)	957990	9.77354	9.77
85	1,4-Dichlorobenzene	146	15.693	15.697	(1.002)	700788	9.25890	9.26
87	n-Butylbenzene	91	16.050	16.054	(1.025)	923533	9.45967	9.46
88	1,2-Dichlorobenzene	146	16.184	16.188	(1.033)	628421	9.66096	9.66
89	1,2-Dibromo-3-chloropropane	75	17.240	17.229	(1.101)	180739	36.6232	36.6(Q)
90	1,2,4-Trichlorobenzene	180	18.653	18.657	(1.191)	352473	9.04277	9.04
91	Hexachlorobutadiene	225	18.935	18.925	(1.209)	180181	8.95665	8.96
92	Naphthalene	128	19.158	19.148	(1.223)	566792	8.65915	8.66
93	1,2,3-Trichlorobenzene	180	19.649	19.654	(1.254)	322531	9.21555	9.22

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067911.D
Date : 26-OCT-2006 02:59
Client ID: K1025W02LCSD
Sample Info: K1025W02LCSD;K1025W02LCSD
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



SUPPORT DOCUMENTATION

Columbia Analytical Services

GC/MS VOA Injection Log

MSK; Karl

Date
10/13/04

Analyst: R
ICAL Date/Time: 10/13/04
Method: SW8260B

Internal Standard Std Prep # 9mSV-26-1
BFB / Surrogate Std Prep # 9mSV-26-2
Calibration Std Prep # 9mSV-28-1A
QCALTSTD / LCS Std Prep # 9mSV-28-2A/G 10/13/04
MS/MSD Std Prep #

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
0834	KQ67553	BFB	NA	NA	NA	NA	NA	NA	✓	✓	
0903	54	VSTD010							N	N	Bromoform
0930	55	VSTD050							N	N	1,1,2,2 Tet.
0956	56	VSTD020							N	N	Vial I CE; 1,1,2,2
—	57	Wash							—	—	
1049	58	VSTD00.3							✓	✓	
1116	59	VSTD005							✓	✓	
1143	60	VSTD001							✓	✓	
1210	61	VSTD0005							✓	✓	
1236	62	VSTD070							✓	✓	
1303	63	VSTD050							✓	✓	
1330	64	VSTD040							✓	✓	
1356	65	VSTD100							✓	✓	
1423	66	QCALTSTD							N 10/14/04	N	Gases ↓ vial A
1450	67	QCALTSTD	↓	↓	↓	↓	↓	↓	N	N	↓ ↓
1516	68	~~K1013W01LCS~~ QCALTSTD	NA	NA	NA	NA	NA	NA	N	N	QCALT not valid serum Gases ↓
1543	69	~~K1013W01LCSD~~ QCALTSTD							✓	N	vial G use 2nd
1610	70	~~Wash~~ QCALTSTD							✓	✓	↓
1636	71	~~Wash~~ K1013W01LCS							✓	✓	
1703	72	~~Wash~~ K1013W01LCSD							✓	✓	
—	73	K1013W01 Wash							—	—	
—	74	~~DDL01504-001~~ Wash	.01	NA		<2	1X	NA	—	—	~~MATRIX~~ TCL b/c
—	75	Wash ~~-005~~	.01	NA		<2	1X	NA	—	—	
1849	76	K1013W01 ~~-005~~	.01	NA		<2	1X	NA	✓	✓	
1916	77	DDL01504-005	.01			<2	1X		✓	✓	matrix
1943	78	-001 mg	.01			<2	1X		✓	✓	
2009	79	-001 mSD	.01			<2	1X		✓	✓	↓
											R 10/13/04

Last Analysis within 12-Hour clock? ☒ Yes ☐ No

CCV Used? ~~☐ #3~~ ☐ #4 ICAL

MS/MSD present? ~~☒~~ ☐ Yes ☐ No

Columbia Analytical Services

GC/MS VOA Injection Log

MSU; Gummo

Date
10-18-06

Analyst: BB
ICAL Date: 10-18-06
Method: 8260B

Internal Standard Std Prep # 9-MSV-28-3
BFB / Surrogate Std Prep # -29-1
Calibration Std Prep # -28-16
QCALTSTD / LCS Std Prep # -28-26
MS/MSD Std Prep # -28-26

68432

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
1413	W064370	BFB	NA	NA	NA	NA	NA	NA	✓	✓	
1441	71	VSTD002							✓	✓	
1505	72	005							✓	✓	
1529	73	025							✓	✓	
1553	74	050							✓	✓	
1617	75	075							✓	✓	
1641	76	100							✓	✓	
1705	77	QCALTSTD							✓	✓	
1728	78	W1018SO1LCS							✓	✓	
1752	79	LCSD							✓	✓	
—	80	Wonky							—	—	
—	81	Wonky							—	—	
1904	82	W1018SO1	↓	↓		↓	↓	↓	✓	✓	
1928	83	D060616-001	02	Soil		1.0X	5.0	5	✓	N	Report second injection
1952	84	-001R					5.0	5	✓	✓	
2016	85	D060615-001					5.3	2	✓	✓	
2039	86	002					5.2	2	✓	✓	
2103	87	003					5.2	2	✓	✓	
2127	88	004					4.7	13	✓	✓	
2151	89	005					5.9	13	N	N	IS✓
2215	90	006					4.9	13	✓	✓	
2240	91	007					5.6	13	✓	✓	
2303	92	008					5.2	13	✓	✓	
2327	93	009					5.3	13	✓	✓	
2351	94	010	↓				4.7	13	✓	✓	
0015	95	010MS	03				4.9	2	✓	✓	
0039	96	010MSD	04	↓	↓	↓	5.3	2	✓	✓	

Last Analysis within 12-Hour clock? ☒ Yes ☐ No

CCV Used? ~~☐ #3 ☐ #4~~ T.C.AL

MS/MSD present? ☒ Yes ☐ No

Columbia Analytical Services

GC/MS VOA Injection Log

MSU; Gummo

Date
10/20/06

Analyst: B
ICAL Date: 10/18/06
Method: SW8260

Internal Standard Std Prep # 9-msv-28-3
BFB / Surrogate Std Prep # 29-1
Calibration Std Prep # 28-1G
QCALTSTD / LCS Std Prep # 28-2G
MS/MSD Std Prep # 28-2G

#68690

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
1119	C064397	BFB	—	—	—	—	—	—	✓	✓	
1136	98	VSTD050	—	—	—	—	—	—	N	N	Naphthalene ↓
1213	99	VSTD050	—	—	—	—	—	—	✓	✓	
1237	4400	U1020501CCS	—	S	—	1X	5.0	—	✓	✓	
1301	01	U1020501CCSD	—	S	—	↓	5.0	—	✓	✓	
—	02	Rinse	—	—	—	—	—	—	—	—	
—	03	Rinse	—	—	—	—	—	—	—	—	
1413	04	U1020501Blk	—	S	—	1X	5.0	—	✓	✓	
1437	05	D0601615-005	.03		—		5.3	13	✓	✓	
1501	06	D0601624-001			—		5.4	23	✓	✓	
1525	07	-002			—		5.2	14	✓	✓	
1549	08	-003			—		6.1	14	✓	✓	
1613	09	-004			—		5.5	15	✓	✓	
1637	10	-005	↓		—		5.0	19	✓	✓	
1701	11	D0601622-001	.01		—		6.0	17	✓	✓	
1724	12	-002	.01		—			16	✓	✓	
1748	13	-003	.02		—			26	✓	✓	
1812	14	-004	.01		—		↓	24	✓	✓	
1836	15	D0601625-001			—		5.0	WW	✓	✓	
1900	16	-006			—		5.0	WW	✓	✓	
1924	17	D0601622-002MS			—		6.0	16	✓	✓	
1948	18	-002MSD	↓	↓	—	↓	↓	16	✓	✓	
											B 10/20/06

Last Analysis within 12-Hour clock? ☒ Yes ☐ No CCV Used? ☒ #3 ☐ #4 MS/MSD present? ☒ Yes ☐ No

Columbia Analytical Services

GC/MS VOA Injection Log

MSK; Karl

Date
10/25/02

Analyst: R

ICAL Date/Time: 10/13/02

Method: SW846 8260B

Internal Standard Std Prep # 9MSV-28-3

BFB / Surrogate Std Prep # 9MSV-29-1

Calibration Std Prep # 9MSV-28-1A

QCALTSTD / LCS Std Prep # 9MSV-28-2B

MS/MSD Std Prep # ↓

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
—	K0607906	BFB	NA	WA	NA	NA	NA	NA	✓	N	Use 2nd
0112	09	BFB							✓	✓	
0139	08	VSTD010							✓	N	Use 2nd
0205	09	VSTD010							✓	✓	
0232	10	K025WQLCS							✓	✓	
0259	11	K025WQLCSD							✓	✓	
—	12	Wash							—	—	
0352	13	K025WQ	↓		↓	↓			✓	✓	
0419	14	D026K625-003	.01		<2	1x			✓	✓	TDX LJ51063
0446	15	-004	.01		<2	1x			✓	✓	
0512	16	-004DL	.01		<2	100x			✓	N	not needed
0539	17	-008	.01		<2	1x			✓	✓	
0605	18	-008DL	.01		<2	100x			✓	N	not needed
0632	19	-009	.01		<2	1x			✓	✓	
0659	20	-009DL	.01		<2	100x			✓	N	not needed
0726	21	-005	.01		<2	1x			✓	✓	
0752	22	-005DL	.01		<2	100x			✓	N	not needed
0819	23	-005DL	.01		<2	1000x			✓	N	not needed
0846	24	-002	.01		<2	~~100x~~ 10x			N	✓	CS @119; TCE @165; Tet @ 286 (2860) (1190) (1640)
0913	25	-002DL	.01		<2	~~1000x~~ 100x			✓	✓	
0939	26	-007 2DL (Dup 1757)	.01		<2	~~100x~~ 1000x			✓	N	not needed
1006	27	-007DL (12/19/2526)	.01		<2	~~1000x~~ 10x			N	✓	TCE @ 367 (3670); Tet @ 312 (3120)
1033	28	-007DL	01		<2	100x			✓	✓	
1100	29	-007DL	.01		<2	1000x			✓	N	not needed
1127	30	-004MS	.01		<2	1x			✓	N	Not requested
1153	31	-004MSD	.01		<2	1x			✓	N	↓
—	32	Wash	NA		NA	NA			—		
—	33	Wash	NA	↓	NA	NA	↓	↓	—		

Last Analysis within 12-Hour clock? ☒ Yes ☐ No

CCV Used? ☒ #3 ☐ #4

MS/MSD present? ☒ Yes ☐ No

GC/MS SEMIVOLATILE ORGANICS

Client: GeoSyntec Consultants
Project: TDY/SC0307
Service Request: D0601625

Cover Page - Organic Analysis Data Package
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name	Lab Code	Date Collected	Date Received
T-52-GW11	D0601625-002	10/17/2006	10/19/2006
T-52-GW26	D0601625-004	10/17/2006	10/19/2006
T-52-GW37	D0601625-005	10/17/2006	10/19/2006
T-53-GW11	D0601625-007	10/17/2006	10/19/2006
T-53-GW26	D0601625-008	10/17/2006	10/19/2006
T-53-GW38	D0601625-009	10/17/2006	10/19/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Gina Johnson
Name: Gina Johnson
Date: 10/26/06
Title: Chemist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-52-GW11	**Units:**	ug/L
Lab Code:	D0601625-002	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	10/23/06	10/25/06	DWG0600914	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	10/23/06	10/25/06	DWG0600914	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	10/23/06	10/25/06	DWG0600914	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
1,4-Dioxane	**1100**	D	99	21	50	10/23/06	10/25/06	DWG0600914	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	10/23/06	10/25/06	DWG0600914	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
2,4-Dimethylphenol	ND	U	9.9	0.83	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrophenol	ND	U	50	10	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2-Chloronaphthalene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
2-Chlorophenol	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/23/06	10/25/06	DWG0600914	
2-Methylnaphthalene	ND	U	5.0	0.18	1	10/23/06	10/25/06	DWG0600914	
2-Methylphenol	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
2-Nitroaniline	ND	U	20	0.27	1	10/23/06	10/25/06	DWG0600914	
2-Nitrophenol	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/23/06	10/25/06	DWG0600914	
3-Nitroaniline	ND	U	20	0.29	1	10/23/06	10/25/06	DWG0600914	*
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	10/23/06	10/25/06	DWG0600914	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
4-Chloroaniline	ND	U	5.0	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
4-Methylphenol	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
4-Nitroaniline	ND	U	20	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Nitrophenol	ND	U	50	20	1	10/23/06	10/25/06	DWG0600914	
Acenaphthene	ND	U	5.0	0.15	1	10/23/06	10/25/06	DWG0600914	
Acenaphthylene	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
Aniline	ND	U	5.0	0.34	1	10/23/06	10/25/06	DWG0600914	
Anthracene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Benz(a)anthracene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Benzo(a)pyrene	ND	U	5.0	0.54	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-52-GW11
Lab Code: D0601625-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	10/23/06	10/25/06	DWG0600914	
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	10/23/06	10/25/06	DWG0600914	
Benzo(k)fluoranthene	**0.32**	J	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
Benzoic acid	ND	U	50	20	1	10/23/06	10/25/06	DWG0600914	
Benzyl alcohol	ND	U	9.9	0.22	1	10/23/06	10/25/06	DWG0600914	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-Chloroisopropyl)ether	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-ethylhexyl) Phthalate	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	10/23/06	10/25/06	DWG0600914	
Chrysene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Di-n-butyl Phthalate	**0.26**	J	5.0	0.25	1	10/23/06	10/25/06	DWG0600914	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	10/23/06	10/25/06	DWG0600914	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	10/23/06	10/25/06	DWG0600914	
Dibenzofuran	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Diethyl Phthalate	**0.43**	J	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
Dimethyl Phthalate	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
Fluoranthene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Fluorene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobutadiene	ND	U	9.9	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorocyclopentadiene	ND	U	9.9	1.8	1	10/23/06	10/25/06	DWG0600914	
Hexachloroethane	ND	U	9.9	2.5	1	10/23/06	10/25/06	DWG0600914	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	10/23/06	10/25/06	DWG0600914	
Isophorone	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
Naphthalene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Nitrobenzene	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
Pentachlorophenol	ND	U	30	0.63	1	10/23/06	10/25/06	DWG0600914	
Phenanthrene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Phenol	ND	U	5.0	0.11	1	10/23/06	10/25/06	DWG0600914	
Pyrene	ND	U	5.0	0.33	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-52-GW11	**Units:**	ug/L
Lab Code:	D0601625-002	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.9	0.33	1	10/23/06	10/25/06	DWG0600914	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	93	31-112	10/25/06	Acceptable
2-Fluorobiphenyl	85	47-110	10/25/06	Acceptable
2-Fluorophenol	47	23-115	10/25/06	Acceptable
Nitrobenzene-d5	85	42-122	10/25/06	Acceptable
Phenol-d5	34	23-121	10/25/06	Acceptable
Terphenyl-d14	76	37-130	10/25/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-52-GW26	**Units:**	ug/L
Lab Code:	D0601625-004	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	10/23/06	10/25/06	DWG0600914	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	10/23/06	10/25/06	DWG0600914	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	10/23/06	10/25/06	DWG0600914	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
1,4-Dioxane	ND	U	2.0	0.41	1	10/23/06	10/25/06	DWG0600914	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	10/23/06	10/25/06	DWG0600914	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
2,4-Dimethylphenol	ND	U	10	0.83	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrophenol	ND	U	50	10	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2-Chloronaphthalene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
2-Chlorophenol	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/23/06	10/25/06	DWG0600914	
2-Methylnaphthalene	ND	U	5.0	0.18	1	10/23/06	10/25/06	DWG0600914	
2-Methylphenol	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
2-Nitroaniline	ND	U	20	0.27	1	10/23/06	10/25/06	DWG0600914	
2-Nitrophenol	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/23/06	10/25/06	DWG0600914	
3-Nitroaniline	ND	U	20	0.29	1	10/23/06	10/25/06	DWG0600914	*
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	10/23/06	10/25/06	DWG0600914	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
4-Chloroaniline	ND	U	5.0	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
4-Methylphenol	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
4-Nitroaniline	ND	U	20	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Nitrophenol	ND	U	50	20	1	10/23/06	10/25/06	DWG0600914	
Acenaphthene	ND	U	5.0	0.15	1	10/23/06	10/25/06	DWG0600914	
Acenaphthylene	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
Aniline	ND	U	5.0	0.34	1	10/23/06	10/25/06	DWG0600914	
Anthracene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Benz(a)anthracene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Benzo(a)pyrene	ND	U	5.0	0.54	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-52-GW26
Lab Code: D0601625-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	10/23/06	10/25/06	DWG0600914	
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	10/23/06	10/25/06	DWG0600914	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
Benzoic acid	ND	U	50	20	1	10/23/06	10/25/06	DWG0600914	
Benzyl alcohol	ND	U	10	0.22	1	10/23/06	10/25/06	DWG0600914	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-Chloroisopropyl)ether	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-ethylhexyl) Phthalate	**7.0**		5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	10/23/06	10/25/06	DWG0600914	
Chrysene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Di-n-butyl Phthalate	**0.28**	J	5.0	0.25	1	10/23/06	10/25/06	DWG0600914	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	10/23/06	10/25/06	DWG0600914	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	10/23/06	10/25/06	DWG0600914	
Dibenzofuran	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Diethyl Phthalate	**1.8**	J	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
Dimethyl Phthalate	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
Fluoranthene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Fluorene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobutadiene	ND	U	10	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorocyclopentadiene	ND	U	10	1.8	1	10/23/06	10/25/06	DWG0600914	
Hexachloroethane	ND	U	10	2.5	1	10/23/06	10/25/06	DWG0600914	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	10/23/06	10/25/06	DWG0600914	
Isophorone	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
Naphthalene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Nitrobenzene	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
Pentachlorophenol	ND	U	30	0.63	1	10/23/06	10/25/06	DWG0600914	
Phenanthrene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Phenol	ND	U	5.0	0.11	1	10/23/06	10/25/06	DWG0600914	
Pyrene	ND	U	5.0	0.33	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-52-GW26	**Units:**	ug/L
Lab Code:	D0601625-004	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	0.33	1	10/23/06	10/25/06	DWG0600914	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	85	31-112	10/25/06	Acceptable
2-Fluorobiphenyl	79	47-110	10/25/06	Acceptable
2-Fluorophenol	46	23-115	10/25/06	Acceptable
Nitrobenzene-d5	78	42-122	10/25/06	Acceptable
Phenol-d5	37	23-121	10/25/06	Acceptable
Terphenyl-d14	87	37-130	10/25/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-52-GW37	**Units:**	ug/L
Lab Code:	D0601625-005	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	19	0.75	1	10/23/06	10/25/06	DWG0600914	
1,2-Dichlorobenzene	ND	U	19	0.63	1	10/23/06	10/25/06	DWG0600914	
1,3-Dichlorobenzene	ND	U	19	0.75	1	10/23/06	10/25/06	DWG0600914	
1,4-Dichlorobenzene	ND	U	19	0.89	1	10/23/06	10/25/06	DWG0600914	
1,4-Dioxane	**4.7**	J	7.5	1.6	1	10/23/06	10/25/06	DWG0600914	
2,4,5-Trichlorophenol	ND	U	19	1.1	1	10/23/06	10/25/06	DWG0600914	
2,4,6-Trichlorophenol	ND	U	19	1.0	1	10/23/06	10/25/06	DWG0600914	
2,4-Dichlorophenol	ND	U	19	0.86	1	10/23/06	10/25/06	DWG0600914	
2,4-Dimethylphenol	ND	U	38	3.1	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrophenol	ND	U	190	38	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrotoluene	ND	U	7.5	1.2	1	10/23/06	10/25/06	DWG0600914	
2,6-Dinitrotoluene	ND	U	19	1.2	1	10/23/06	10/25/06	DWG0600914	
2-Chloronaphthalene	ND	U	19	0.82	1	10/23/06	10/25/06	DWG0600914	
2-Chlorophenol	ND	U	19	0.89	1	10/23/06	10/25/06	DWG0600914	
2-Methyl-4,6-dinitrophenol	ND	U	75	0.75	1	10/23/06	10/25/06	DWG0600914	
2-Methylnaphthalene	ND	U	19	0.67	1	10/23/06	10/25/06	DWG0600914	
2-Methylphenol	ND	U	19	1.2	1	10/23/06	10/25/06	DWG0600914	
2-Nitroaniline	ND	U	75	1.0	1	10/23/06	10/25/06	DWG0600914	
2-Nitrophenol	ND	U	19	0.97	1	10/23/06	10/25/06	DWG0600914	
3,3'-Dichlorobenzidine	ND	U	75	3.2	1	10/23/06	10/25/06	DWG0600914	
3-Nitroaniline	ND	U	75	1.1	1	10/23/06	10/25/06	DWG0600914	*
4-Bromophenyl Phenyl Ether	ND	U	19	0.67	1	10/23/06	10/25/06	DWG0600914	
4-Chloro-3-methylphenol	ND	U	19	1.2	1	10/23/06	10/25/06	DWG0600914	
4-Chloroaniline	ND	U	19	1.4	1	10/23/06	10/25/06	DWG0600914	
4-Chlorophenyl Phenyl Ether	ND	U	19	0.78	1	10/23/06	10/25/06	DWG0600914	
4-Methylphenol	ND	U	19	1.1	1	10/23/06	10/25/06	DWG0600914	
4-Nitroaniline	ND	U	75	1.4	1	10/23/06	10/25/06	DWG0600914	
4-Nitrophenol	ND	U	190	75	1	10/23/06	10/25/06	DWG0600914	
Acenaphthene	ND	U	19	0.56	1	10/23/06	10/25/06	DWG0600914	
Acenaphthylene	ND	U	19	0.86	1	10/23/06	10/25/06	DWG0600914	
Aniline	ND	U	19	1.3	1	10/23/06	10/25/06	DWG0600914	
Anthracene	ND	U	19	0.78	1	10/23/06	10/25/06	DWG0600914	
Benz(a)anthracene	ND	U	19	0.78	1	10/23/06	10/25/06	DWG0600914	
Benzo(a)pyrene	ND	U	19	2.0	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-52-GW37
Lab Code: D0601625-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	19	1.6	1	10/23/06	10/25/06	DWG0600914	
Benzo(g,h,i)perylene	ND	U	19	2.8	1	10/23/06	10/25/06	DWG0600914	
Benzo(k)fluoranthene	ND	U	19	1.2	1	10/23/06	10/25/06	DWG0600914	
Benzoic acid	ND	U	190	75	1	10/23/06	10/25/06	DWG0600914	
Benzyl alcohol	ND	U	38	0.82	1	10/23/06	10/25/06	DWG0600914	
bis(2-Chloroethoxy)methane	ND	U	19	1.2	1	10/23/06	10/25/06	DWG0600914	
Bis(2-chloroethyl) Ether	ND	U	19	0.89	1	10/23/06	10/25/06	DWG0600914	
Bis(2-Chloroisopropyl)ether	ND	U	19	0.89	1	10/23/06	10/25/06	DWG0600914	
Bis(2-ethylhexyl) Phthalate	**210**		19	1.2	1	10/23/06	10/25/06	DWG0600914	
Butyl Benzyl Phthalate	ND	U	19	1.8	1	10/23/06	10/25/06	DWG0600914	
Chrysene	ND	U	19	0.82	1	10/23/06	10/25/06	DWG0600914	
Di-n-butyl Phthalate	ND	U	19	0.93	1	10/23/06	10/25/06	DWG0600914	
Di-n-octyl Phthalate	ND	U	19	1.3	1	10/23/06	10/25/06	DWG0600914	
Dibenz(a,h)anthracene	ND	U	19	2.3	1	10/23/06	10/25/06	DWG0600914	
Dibenzofuran	ND	U	19	0.82	1	10/23/06	10/25/06	DWG0600914	
Diethyl Phthalate	**2.3**	J	19	1.1	1	10/23/06	10/25/06	DWG0600914	
Dimethyl Phthalate	ND	U	19	0.97	1	10/23/06	10/25/06	DWG0600914	
Fluoranthene	ND	U	19	0.78	1	10/23/06	10/25/06	DWG0600914	
Fluorene	ND	U	19	0.82	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobenzene	ND	U	7.5	0.78	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobutadiene	ND	U	38	0.82	1	10/23/06	10/25/06	DWG0600914	
Hexachlorocyclopentadiene	ND	U	38	6.7	1	10/23/06	10/25/06	DWG0600914	
Hexachloroethane	ND	U	38	9.3	1	10/23/06	10/25/06	DWG0600914	
Indeno(1,2,3-cd)pyrene	ND	U	19	2.5	1	10/23/06	10/25/06	DWG0600914	
Isophorone	ND	U	19	1.2	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodi-n-propylamine	ND	U	19	1.1	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodimethylamine	ND	U	19	1.8	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodiphenylamine	ND	U	19	0.86	1	10/23/06	10/25/06	DWG0600914	
Naphthalene	ND	U	19	0.78	1	10/23/06	10/25/06	DWG0600914	
Nitrobenzene	ND	U	19	0.97	1	10/23/06	10/25/06	DWG0600914	
Pentachlorophenol	ND	U	120	2.4	1	10/23/06	10/25/06	DWG0600914	
Phenanthrene	ND	U	19	0.82	1	10/23/06	10/25/06	DWG0600914	
Phenol	ND	U	19	0.41	1	10/23/06	10/25/06	DWG0600914	
Pyrene	ND	U	19	1.3	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-52-GW37	**Units:**	ug/L
Lab Code:	D0601625-005	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	38	1.3	1	10/23/06	10/25/06	DWG0600914	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	91	31-112	10/25/06	Acceptable
2-Fluorobiphenyl	84	47-110	10/25/06	Acceptable
2-Fluorophenol	52	23-115	10/25/06	Acceptable
Nitrobenzene-d5	84	42-122	10/25/06	Acceptable
Phenol-d5	44	23-121	10/25/06	Acceptable
Terphenyl-d14	59	37-130	10/25/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-53-GW11
Lab Code: D0601625-007

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	10/23/06	10/25/06	DWG0600914	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	10/23/06	10/25/06	DWG0600914	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	10/23/06	10/25/06	DWG0600914	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	10/23/06	10/25/06	DWG0600914	
1,4-Dioxane	**760**	D	96	21	50	10/23/06	10/25/06	DWG0600914	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	10/23/06	10/25/06	DWG0600914	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	10/23/06	10/25/06	DWG0600914	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	10/23/06	10/25/06	DWG0600914	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrophenol	ND	U	48	10	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	10/23/06	10/25/06	DWG0600914	
2-Chloronaphthalene	ND	U	4.8	0.22	1	10/23/06	10/25/06	DWG0600914	
2-Chlorophenol	ND	U	4.8	0.24	1	10/23/06	10/25/06	DWG0600914	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/23/06	10/25/06	DWG0600914	
2-Methylnaphthalene	ND	U	4.8	0.18	1	10/23/06	10/25/06	DWG0600914	
2-Methylphenol	ND	U	4.8	0.32	1	10/23/06	10/25/06	DWG0600914	
2-Nitroaniline	ND	U	20	0.27	1	10/23/06	10/25/06	DWG0600914	
2-Nitrophenol	ND	U	4.8	0.26	1	10/23/06	10/25/06	DWG0600914	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/23/06	10/25/06	DWG0600914	
3-Nitroaniline	ND	U	20	0.29	1	10/23/06	10/25/06	DWG0600914	*
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	10/23/06	10/25/06	DWG0600914	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	10/23/06	10/25/06	DWG0600914	
4-Chloroaniline	ND	U	4.8	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	10/23/06	10/25/06	DWG0600914	
4-Methylphenol	ND	U	4.8	0.28	1	10/23/06	10/25/06	DWG0600914	
4-Nitroaniline	ND	U	20	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Nitrophenol	ND	U	48	20	1	10/23/06	10/25/06	DWG0600914	
Acenaphthene	ND	U	4.8	0.15	1	10/23/06	10/25/06	DWG0600914	
Acenaphthylene	ND	U	4.8	0.23	1	10/23/06	10/25/06	DWG0600914	
Aniline	ND	U	4.8	0.34	1	10/23/06	10/25/06	DWG0600914	
Anthracene	ND	U	4.8	0.21	1	10/23/06	10/25/06	DWG0600914	
Benz(a)anthracene	ND	U	4.8	0.21	1	10/23/06	10/25/06	DWG0600914	
Benzo(a)pyrene	ND	U	4.8	0.54	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-53-GW11
Lab Code: D0601625-007

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	10/23/06	10/25/06	DWG0600914	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	10/23/06	10/25/06	DWG0600914	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	10/23/06	10/25/06	DWG0600914	
Benzoic acid	ND	U	48	20	1	10/23/06	10/25/06	DWG0600914	
Benzyl alcohol	ND	U	9.6	0.22	1	10/23/06	10/25/06	DWG0600914	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	10/23/06	10/25/06	DWG0600914	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-ethylhexyl) Phthalate	**1.3**	J	4.8	0.30	1	10/23/06	10/25/06	DWG0600914	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	10/23/06	10/25/06	DWG0600914	
Chrysene	ND	U	4.8	0.22	1	10/23/06	10/25/06	DWG0600914	
Di-n-butyl Phthalate	ND	U	4.8	0.25	1	10/23/06	10/25/06	DWG0600914	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	10/23/06	10/25/06	DWG0600914	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	10/23/06	10/25/06	DWG0600914	
Dibenzofuran	ND	U	4.8	0.22	1	10/23/06	10/25/06	DWG0600914	
Diethyl Phthalate	**0.36**	J	4.8	0.28	1	10/23/06	10/25/06	DWG0600914	
Dimethyl Phthalate	ND	U	4.8	0.26	1	10/23/06	10/25/06	DWG0600914	
Fluoranthene	ND	U	4.8	0.21	1	10/23/06	10/25/06	DWG0600914	
Fluorene	ND	U	4.8	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobutadiene	ND	U	9.6	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	10/23/06	10/25/06	DWG0600914	
Hexachloroethane	ND	U	9.6	2.5	1	10/23/06	10/25/06	DWG0600914	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	10/23/06	10/25/06	DWG0600914	
Isophorone	ND	U	4.8	0.30	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	10/23/06	10/25/06	DWG0600914	
Naphthalene	ND	U	4.8	0.21	1	10/23/06	10/25/06	DWG0600914	
Nitrobenzene	ND	U	4.8	0.26	1	10/23/06	10/25/06	DWG0600914	
Pentachlorophenol	ND	U	29	0.63	1	10/23/06	10/25/06	DWG0600914	
Phenanthrene	ND	U	4.8	0.22	1	10/23/06	10/25/06	DWG0600914	
Phenol	ND	U	4.8	0.11	1	10/23/06	10/25/06	DWG0600914	
Pyrene	ND	U	4.8	0.33	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-53-GW11	**Units:**	ug/L
Lab Code:	D0601625-007	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	10/23/06	10/25/06	DWG0600914	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	90	31-112	10/25/06	Acceptable
2-Fluorobiphenyl	84	47-110	10/25/06	Acceptable
2-Fluorophenol	44	23-115	10/25/06	Acceptable
Nitrobenzene-d5	82	42-122	10/25/06	Acceptable
Phenol-d5	32	23-121	10/25/06	Acceptable
Terphenyl-d14	78	37-130	10/25/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-53-GW26
Lab Code: D0601625-008

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.9	0.20	1	10/23/06	10/25/06	DWG0600914	
1,2-Dichlorobenzene	ND	U	4.9	0.17	1	10/23/06	10/25/06	DWG0600914	
1,3-Dichlorobenzene	ND	U	4.9	0.20	1	10/23/06	10/25/06	DWG0600914	
1,4-Dichlorobenzene	ND	U	4.9	0.24	1	10/23/06	10/25/06	DWG0600914	
1,4-Dioxane	ND	U	2.0	0.41	1	10/23/06	10/25/06	DWG0600914	
2,4,5-Trichlorophenol	ND	U	4.9	0.28	1	10/23/06	10/25/06	DWG0600914	
2,4,6-Trichlorophenol	ND	U	4.9	0.27	1	10/23/06	10/25/06	DWG0600914	
2,4-Dichlorophenol	ND	U	4.9	0.23	1	10/23/06	10/25/06	DWG0600914	
2,4-Dimethylphenol	ND	U	9.8	0.83	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrophenol	ND	U	49	10	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2,6-Dinitrotoluene	ND	U	4.9	0.30	1	10/23/06	10/25/06	DWG0600914	
2-Chloronaphthalene	ND	U	4.9	0.22	1	10/23/06	10/25/06	DWG0600914	
2-Chlorophenol	ND	U	4.9	0.24	1	10/23/06	10/25/06	DWG0600914	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/23/06	10/25/06	DWG0600914	
2-Methylnaphthalene	ND	U	4.9	0.18	1	10/23/06	10/25/06	DWG0600914	
2-Methylphenol	ND	U	4.9	0.32	1	10/23/06	10/25/06	DWG0600914	
2-Nitroaniline	ND	U	20	0.27	1	10/23/06	10/25/06	DWG0600914	
2-Nitrophenol	ND	U	4.9	0.26	1	10/23/06	10/25/06	DWG0600914	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/23/06	10/25/06	DWG0600914	
3-Nitroaniline	ND	U	20	0.29	1	10/23/06	10/25/06	DWG0600914	*
4-Bromophenyl Phenyl Ether	ND	U	4.9	0.18	1	10/23/06	10/25/06	DWG0600914	
4-Chloro-3-methylphenol	ND	U	4.9	0.32	1	10/23/06	10/25/06	DWG0600914	
4-Chloroaniline	ND	U	4.9	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Chlorophenyl Phenyl Ether	ND	U	4.9	0.21	1	10/23/06	10/25/06	DWG0600914	
4-Methylphenol	ND	U	4.9	0.28	1	10/23/06	10/25/06	DWG0600914	
4-Nitroaniline	ND	U	20	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Nitrophenol	ND	U	49	20	1	10/23/06	10/25/06	DWG0600914	
Acenaphthene	ND	U	4.9	0.15	1	10/23/06	10/25/06	DWG0600914	
Acenaphthylene	ND	U	4.9	0.23	1	10/23/06	10/25/06	DWG0600914	
Aniline	ND	U	4.9	0.34	1	10/23/06	10/25/06	DWG0600914	
Anthracene	ND	U	4.9	0.21	1	10/23/06	10/25/06	DWG0600914	
Benz(a)anthracene	ND	U	4.9	0.21	1	10/23/06	10/25/06	DWG0600914	
Benzo(a)pyrene	ND	U	4.9	0.54	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-53-GW26
Lab Code: D0601625-008

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.9	0.42	1	10/23/06	10/25/06	DWG0600914	
Benzo(g,h,i)perylene	ND	U	4.9	0.74	1	10/23/06	10/25/06	DWG0600914	
Benzo(k)fluoranthene	ND	U	4.9	0.32	1	10/23/06	10/25/06	DWG0600914	
Benzoic acid	ND	U	49	20	1	10/23/06	10/25/06	DWG0600914	
Benzyl alcohol	ND	U	9.8	0.22	1	10/23/06	10/25/06	DWG0600914	
bis(2-Chloroethoxy)methane	ND	U	4.9	0.32	1	10/23/06	10/25/06	DWG0600914	
Bis(2-chloroethyl) Ether	ND	U	4.9	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-Chloroisopropyl)ether	ND	U	4.9	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-ethylhexyl) Phthalate	**0.49**	J	4.9	0.30	1	10/23/06	10/25/06	DWG0600914	
Butyl Benzyl Phthalate	ND	U	4.9	0.48	1	10/23/06	10/25/06	DWG0600914	
Chrysene	ND	U	4.9	0.22	1	10/23/06	10/25/06	DWG0600914	
Di-n-butyl Phthalate	ND	U	4.9	0.25	1	10/23/06	10/25/06	DWG0600914	
Di-n-octyl Phthalate	ND	U	4.9	0.33	1	10/23/06	10/25/06	DWG0600914	
Dibenz(a,h)anthracene	ND	U	4.9	0.62	1	10/23/06	10/25/06	DWG0600914	
Dibenzofuran	ND	U	4.9	0.22	1	10/23/06	10/25/06	DWG0600914	
Diethyl Phthalate	**0.42**	J	4.9	0.28	1	10/23/06	10/25/06	DWG0600914	
Dimethyl Phthalate	ND	U	4.9	0.26	1	10/23/06	10/25/06	DWG0600914	
Fluoranthene	ND	U	4.9	0.21	1	10/23/06	10/25/06	DWG0600914	
Fluorene	ND	U	4.9	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobutadiene	ND	U	9.8	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorocyclopentadiene	ND	U	9.8	1.8	1	10/23/06	10/25/06	DWG0600914	
Hexachloroethane	ND	U	9.8	2.5	1	10/23/06	10/25/06	DWG0600914	
Indeno(1,2,3-cd)pyrene	ND	U	4.9	0.65	1	10/23/06	10/25/06	DWG0600914	
Isophorone	ND	U	4.9	0.30	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodi-n-propylamine	ND	U	4.9	0.28	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodimethylamine	ND	U	4.9	0.48	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodiphenylamine	ND	U	4.9	0.23	1	10/23/06	10/25/06	DWG0600914	
Naphthalene	ND	U	4.9	0.21	1	10/23/06	10/25/06	DWG0600914	
Nitrobenzene	ND	U	4.9	0.26	1	10/23/06	10/25/06	DWG0600914	
Pentachlorophenol	ND	U	30	0.63	1	10/23/06	10/25/06	DWG0600914	
Phenanthrene	ND	U	4.9	0.22	1	10/23/06	10/25/06	DWG0600914	
Phenol	ND	U	4.9	0.11	1	10/23/06	10/25/06	DWG0600914	
Pyrene	ND	U	4.9	0.33	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-53-GW26	**Units:**	ug/L
Lab Code:	D0601625-008	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.8	0.33	1	10/23/06	10/25/06	DWG0600914	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	86	31-112	10/25/06	Acceptable
2-Fluorobiphenyl	82	47-110	10/25/06	Acceptable
2-Fluorophenol	47	23-115	10/25/06	Acceptable
Nitrobenzene-d5	82	42-122	10/25/06	Acceptable
Phenol-d5	36	23-121	10/25/06	Acceptable
Terphenyl-d14	86	37-130	10/25/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-53-GW38
Lab Code: D0601625-009

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	10/23/06	10/25/06	DWG0600914	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	10/23/06	10/25/06	DWG0600914	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	10/23/06	10/25/06	DWG0600914	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
1,4-Dioxane	**0.70**	J	2.0	0.41	1	10/23/06	10/25/06	DWG0600914	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	10/23/06	10/25/06	DWG0600914	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
2,4-Dimethylphenol	ND	U	10	0.83	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrophenol	ND	U	50	10	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2-Chloronaphthalene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
2-Chlorophenol	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/23/06	10/25/06	DWG0600914	
2-Methylnaphthalene	ND	U	5.0	0.18	1	10/23/06	10/25/06	DWG0600914	
2-Methylphenol	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
2-Nitroaniline	ND	U	20	0.27	1	10/23/06	10/25/06	DWG0600914	
2-Nitrophenol	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/23/06	10/25/06	DWG0600914	
3-Nitroaniline	ND	U	20	0.29	1	10/23/06	10/25/06	DWG0600914	*
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	10/23/06	10/25/06	DWG0600914	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
4-Chloroaniline	ND	U	5.0	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
4-Methylphenol	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
4-Nitroaniline	ND	U	20	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Nitrophenol	ND	U	50	20	1	10/23/06	10/25/06	DWG0600914	
Acenaphthene	ND	U	5.0	0.15	1	10/23/06	10/25/06	DWG0600914	
Acenaphthylene	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
Aniline	ND	U	5.0	0.34	1	10/23/06	10/25/06	DWG0600914	
Anthracene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Benz(a)anthracene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Benzo(a)pyrene	ND	U	5.0	0.54	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-53-GW38
Lab Code: D0601625-009

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	10/23/06	10/25/06	DWG0600914	
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	10/23/06	10/25/06	DWG0600914	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
Benzoic acid	ND	U	50	20	1	10/23/06	10/25/06	DWG0600914	
Benzyl alcohol	ND	U	10	0.22	1	10/23/06	10/25/06	DWG0600914	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-Chloroisopropyl)ether	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-ethylhexyl) Phthalate	**0.54**	J	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	10/23/06	10/25/06	DWG0600914	
Chrysene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Di-n-butyl Phthalate	**0.70**	J	5.0	0.25	1	10/23/06	10/25/06	DWG0600914	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	10/23/06	10/25/06	DWG0600914	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	10/23/06	10/25/06	DWG0600914	
Dibenzofuran	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Diethyl Phthalate	**0.52**	J	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
Dimethyl Phthalate	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
Fluoranthene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Fluorene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobutadiene	ND	U	10	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorocyclopentadiene	ND	U	10	1.8	1	10/23/06	10/25/06	DWG0600914	
Hexachloroethane	ND	U	10	2.5	1	10/23/06	10/25/06	DWG0600914	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	10/23/06	10/25/06	DWG0600914	
Isophorone	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
Naphthalene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Nitrobenzene	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
Pentachlorophenol	ND	U	30	0.63	1	10/23/06	10/25/06	DWG0600914	
Phenanthrene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Phenol	ND	U	5.0	0.11	1	10/23/06	10/25/06	DWG0600914	
Pyrene	ND	U	5.0	0.33	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	T-53-GW38	**Units:**	ug/L
Lab Code:	D0601625-009	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	0.33	1	10/23/06	10/25/06	DWG0600914	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	82	31-112	10/25/06	Acceptable
2-Fluorobiphenyl	77	47-110	10/25/06	Acceptable
2-Fluorophenol	54	23-115	10/25/06	Acceptable
Nitrobenzene-d5	77	42-122	10/25/06	Acceptable
Phenol-d5	69	23-121	10/25/06	Acceptable
Terphenyl-d14	64	37-130	10/25/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Ground water

Service Request: D0601625
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0600914-3

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	10/23/06	10/25/06	DWG0600914	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	10/23/06	10/25/06	DWG0600914	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	10/23/06	10/25/06	DWG0600914	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
1,4-Dioxane	ND	U	2.0	0.41	1	10/23/06	10/25/06	DWG0600914	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	10/23/06	10/25/06	DWG0600914	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
2,4-Dimethylphenol	ND	U	10	0.83	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrophenol	ND	U	50	10	1	10/23/06	10/25/06	DWG0600914	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
2-Chloronaphthalene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
2-Chlorophenol	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/23/06	10/25/06	DWG0600914	
2-Methylnaphthalene	ND	U	5.0	0.18	1	10/23/06	10/25/06	DWG0600914	
2-Methylphenol	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
2-Nitroaniline	ND	U	20	0.27	1	10/23/06	10/25/06	DWG0600914	
2-Nitrophenol	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/23/06	10/25/06	DWG0600914	
3-Nitroaniline	ND	U	20	0.29	1	10/23/06	10/25/06	DWG0600914	*
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	10/23/06	10/25/06	DWG0600914	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
4-Chloroaniline	ND	U	5.0	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
4-Methylphenol	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
4-Nitroaniline	ND	U	20	0.36	1	10/23/06	10/25/06	DWG0600914	
4-Nitrophenol	ND	U	50	20	1	10/23/06	10/25/06	DWG0600914	
Acenaphthene	ND	U	5.0	0.15	1	10/23/06	10/25/06	DWG0600914	
Acenaphthylene	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
Aniline	ND	U	5.0	0.34	1	10/23/06	10/25/06	DWG0600914	
Anthracene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Benz(a)anthracene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Benzo(a)pyrene	ND	U	5.0	0.54	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Ground water

Service Request: D0601625
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0600914-3

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	10/23/06	10/25/06	DWG0600914	
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	10/23/06	10/25/06	DWG0600914	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
Benzoic acid	ND	U	50	20	1	10/23/06	10/25/06	DWG0600914	
Benzyl alcohol	ND	U	10	0.22	1	10/23/06	10/25/06	DWG0600914	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	10/23/06	10/25/06	DWG0600914	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-Chloroisopropyl)ether	ND	U	5.0	0.24	1	10/23/06	10/25/06	DWG0600914	
Bis(2-ethylhexyl) Phthalate	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	10/23/06	10/25/06	DWG0600914	
Chrysene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Di-n-butyl Phthalate	ND	U	5.0	0.25	1	10/23/06	10/25/06	DWG0600914	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	10/23/06	10/25/06	DWG0600914	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	10/23/06	10/25/06	DWG0600914	
Dibenzofuran	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Diethyl Phthalate	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
Dimethyl Phthalate	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
Fluoranthene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Fluorene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Hexachlorobutadiene	ND	U	10	0.22	1	10/23/06	10/25/06	DWG0600914	
Hexachlorocyclopentadiene	ND	U	10	1.8	1	10/23/06	10/25/06	DWG0600914	
Hexachloroethane	ND	U	10	2.5	1	10/23/06	10/25/06	DWG0600914	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	10/23/06	10/25/06	DWG0600914	
Isophorone	ND	U	5.0	0.30	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	10/23/06	10/25/06	DWG0600914	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	10/23/06	10/25/06	DWG0600914	
Naphthalene	ND	U	5.0	0.21	1	10/23/06	10/25/06	DWG0600914	
Nitrobenzene	ND	U	5.0	0.26	1	10/23/06	10/25/06	DWG0600914	
Pentachlorophenol	ND	U	30	0.63	1	10/23/06	10/25/06	DWG0600914	
Phenanthrene	ND	U	5.0	0.22	1	10/23/06	10/25/06	DWG0600914	
Phenol	ND	U	5.0	0.11	1	10/23/06	10/25/06	DWG0600914	
Pyrene	ND	U	5.0	0.33	1	10/23/06	10/25/06	DWG0600914	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	NA
Sample Matrix:	Ground water	**Date Received:**	NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	DWG0600914-3	**Basis:**	NA
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	0.33	1	10/23/06	10/25/06	DWG0600914	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	82	31-112	10/25/06	Acceptable
2-Fluorobiphenyl	89	47-110	10/25/06	Acceptable
2-Fluorophenol	52	23-115	10/25/06	Acceptable
Nitrobenzene-d5	89	42-122	10/25/06	Acceptable
Phenol-d5	39	23-121	10/25/06	Acceptable
Terphenyl-d14	88	37-130	10/25/06	Acceptable

Comments:

QC Summary

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625

Surrogate Recovery Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4	Sur5	Sur6
T-52-GW11	D0601625-002	93	85	47	85	34	76
T-52-GW26	D0601625-004	85	79	46	78	37	87
T-52-GW37	D0601625-005	91	84	52	84	44	59
T-53-GW11	D0601625-007	90	84	44	82	32	78
T-53-GW26	D0601625-008	86	82	47	82	36	86
T-53-GW38	D0601625-009	82	77	54	77	69	64
Method Blank	DWG0600914-3	82	89	52	89	39	88
Lab Control Sample	DWG0600914-1	89	88	50	88	46	84
Duplicate Lab Control Sample	DWG0600914-2	82	79	44	78	36	89

Surrogate Recovery Control Limits (%)

Sur1 = 2,4,6-Tribromophenol	31-112	Sur5 = Phenol-d5	23-121
Sur2 = 2-Fluorobiphenyl	47-110	Sur6 = Terphenyl-d14	37-130
Sur3 = 2-Fluorophenol	23-115		
Sur4 = Nitrobenzene-d5	42-122		

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Analyzed:**	10/25/2006
		Time Analyzed:	09:09

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID:	C:\MSDCHEM\1\DATA\E061025\E061487.D	**Lab Code:**	DWG0600915-2
Instrument ID:	MSE	**Analysis Lot:**	DWG0600915
Analysis Method:	8270C		

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	184,095	5.98	435,633	9.75	512,840	15.96
	Upper Limit ==>	368,190	6.48	871,266	10.25	1,025,680	16.46
	Lower Limit ==>	92,048	5.48	217,817	9.25	256,420	15.46
	ICAL Result ==>	150,260	6.03	364,280	9.82	362,337	16.08
Associated Analyses							
Method Blank	DWG0600914-3	182,308	5.97	425,451	9.74	416,001	15.95
Lab Control Sample	DWG0600914-1	198,812	5.98	477,455	9.75	511,280	15.96
Duplicate Lab Control Sample	DWG0600914-2	231,903	5.98	549,344	9.75	487,775	15.96
T-52-GW11	D0601625-002	205,024	5.98	488,092	9.75	423,259	15.95
T-52-GW26	D0601625-004	199,132	5.98	473,620	9.74	392,474	15.96
T-52-GW37	D0601625-005	210,642	5.98	494,708	9.75	398,080	15.96
T-53-GW11	D0601625-007	257,479	5.98	617,356	9.75	486,487	15.96
T-53-GW26	D0601625-008	215,012	5.98	509,505	9.74	429,616	15.95
T-53-GW38	D0601625-009	204,860	5.98	486,131	9.75	428,297	15.96
T-52-GW11DL	D0601625-002	205,420	5.97	486,802	9.74	402,121	15.95
T-53-GW11DL	D0601625-007	215,345	5.98	512,135	9.75	451,628	15.96

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
Date Analyzed: 10/25/2006
Time Analyzed: 09:09

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E061025\E061487.D
Instrument ID: MSE
Analysis Method: 8270C

Lab Code: DWG0600915-2
Analysis Lot: DWG0600915

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	687,786	7.54	352,770	18.84	699,783	11.58
	Upper Limit ==>	1,375,572	8.04	705,540	19.34	1,399,566	12.08
	Lower Limit ==>	343,893	7.04	176,385	18.34	349,892	11.08
	ICAL Result ==>	572,301	7.61	192,975	18.98	593,161	11.66
Associated Analyses							
Method Blank	DWG0600914-3	688,691	7.54	314,581	18.83	676,798	11.58
Lab Control Sample	DWG0600914-1	757,229	7.54	298,949	18.84	825,446	11.58
Duplicate Lab Control Sample	DWG0600914-2	881,298	7.54	255,565	18.84	961,449	11.58
T-52-GW11	D0601625-002	789,941	7.54	275,151	18.84	785,450	11.58
T-52-GW26	D0601625-004	763,897	7.54	202,714	18.83	797,880	11.58
T-52-GW37	D0601625-005	808,973	7.54	247,494	18.84	794,435	11.58
T-53-GW11	D0601625-007	992,051	7.54	309,868	18.84	1,005,951	11.58
T-53-GW26	D0601625-008	816,139	7.54	234,202	18.83	866,227	11.58
T-53-GW38	D0601625-009	776,903	7.54	252,231	18.84	816,400	11.58
T-52-GW11DL	D0601625-002	789,248	7.54	243,230	18.83	820,218	11.58
T-53-GW11DL	D0601625-007	823,663	7.54	252,146	18.84	896,084	11.58

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Extracted:**	10/23/2006
Sample Matrix:	Ground water	**Date Analyzed:**	10/25/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method:	EPA 3510C/3520C	**Units:**	ug/L
Analysis Method:	8270C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	DWG0600914

	Lab Control Sample DWG0600914-1 Lab Control Spike			Duplicate Lab Control Sample DWG0600914-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	40.9	50.0	82	36.1	50.0	72	30-101	12	20
1,2-Dichlorobenzene	39.7	50.0	79	35.6	50.0	71	20-105	11	20
1,3-Dichlorobenzene	39.3	50.0	79	34.5	50.0	69	15-104	13	20
1,4-Dichlorobenzene	38.4	50.0	77	34.3	50.0	69	19-102	11	20
1,4-Dioxane	39.3	50.0	79	35.1	50.0	70	35-101	11	20
2,4,5-Trichlorophenol	42.5	50.0	85	40.7	50.0	81	48-114	4	20
2,4,6-Trichlorophenol	43.8	50.0	88	41.0	50.0	82	48-112	6	20
2,4-Dichlorophenol	41.3	50.0	83	37.9	50.0	76	49-114	9	20
2,4-Dimethylphenol	43.8	50.0	88	39.7	50.0	79	38-107	10	20
2,4-Dinitrophenol	61.9	100	62	64.2	100	64	16-134	4	20
2,4-Dinitrotoluene	44.1	50.0	88	41.4	50.0	83	23-132	6	20
2,6-Dinitrotoluene	45.1	50.0	90	42.0	50.0	84	47-116	7	20
2-Chloronaphthalene	41.9	50.0	84	38.3	50.0	77	41-113	9	20
2-Chlorophenol	39.3	50.0	79	35.8	50.0	72	45-108	9	20
2-Methyl-4,6-dinitrophenol	72.8	100	73	71.6	100	72	21-134	2	20
2-Methylnaphthalene	41.3	50.0	83	37.6	50.0	75	41-112	10	20
2-Methylphenol	42.9	50.0	86	37.9	50.0	76	44-110	13	20
2-Nitroaniline	42.9	50.0	86	40.4	50.0	81	19-137	6	20
2-Nitrophenol	42.4	50.0	85	39.0	50.0	78	47-117	8	20
3,3'-Dichlorobenzidine	88.3	100	88	77.6	100	78	10-122	13	20
3-Nitroaniline	42.4	50.0	85	41.2	50.0	82	25-146	3	20
4-Bromophenyl Phenyl Ether	41.8	50.0	84	38.1	50.0	76	46-117	9	20
4-Chloro-3-methylphenol	44.7	50.0	89	40.5	50.0	81	45-115	10	20
4-Chloroaniline	43.8	50.0	88	41.4	50.0	83	16-139	6	20
4-Chlorophenyl Phenyl Ether	43.9	50.0	88	39.9	50.0	80	45-115	9	20
4-Methylphenol	41.1	50.0	82	36.5	50.0	73	60-108	12	20
4-Nitroaniline	42.0	50.0	84	39.9	50.0	80	16-147	5	20
4-Nitrophenol	30.8	100	31	30.0	100	30	10-134	3	20
Acenaphthene	42.1	50.0	84	38.0	50.0	76	39-119	10	20
Acenaphthylene	42.7	50.0	85	38.5	50.0	77	51-112	10	20
Aniline	41.2	50.0	82	38.5	50.0	77	10-144	7	20
Anthracene	39.8	50.0	80	36.8	50.0	74	40-123	8	20
Benz(a)anthracene	44.3	50.0	89	40.5	50.0	81	36-126	9	20
Benzo(a)pyrene	45.3	50.0	91	41.8	50.0	84	41-125	8	20
Benzo(b)fluoranthene	44.8	50.0	90	40.4	50.0	81	48-126	10	20
Benzo(g,h,i)perylene	45.6	50.0	91	43.4	50.0	87	33-138	5	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Ground water

Service Request: D0601625
Date Extracted: 10/23/2006
Date Analyzed: 10/25/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: DWG0600914

	Lab Control Sample DWG0600914-1 Lab Control Spike			Duplicate Lab Control Sample DWG0600914-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Benzo(k)fluoranthene	43.3	50.0	87	41.4	50.0	83	49-125	4	20
Benzoic acid	5.88	50.0	12	6.75	50.0	14	10-148	14	20
Benzyl alcohol	45.0	50.0	90	41.1	50.0	82	48-119	9	20
bis(2-Chloroethoxy)methane	40.9	50.0	82	37.3	50.0	75	39-120	9	20
Bis(2-chloroethyl) Ether	39.6	50.0	79	35.6	50.0	71	41-108	11	20
Bis(2-Chloroisopropyl)ether	39.9	50.0	80	35.6	50.0	71	38-119	12	20
Bis(2-ethylhexyl) Phthalate	49.2	50.0	98	49.5	50.0	99	42-127	1	20
Butyl Benzyl Phthalate	45.3	50.0	91	46.4	50.0	93	40-126	2	20
Chrysene	43.6	50.0	87	40.1	50.0	80	47-117	8	20
Di-n-butyl Phthalate	44.7	50.0	89	39.7	50.0	79	40-126	12	20
Di-n-octyl Phthalate	44.7	50.0	89	45.7	50.0	91	48-127	2	20
Dibenz(a,h)anthracene	43.9	50.0	88	40.8	50.0	82	44-137	7	20
Dibenzofuran	42.0	50.0	84	38.7	50.0	77	45-115	8	20
Diethyl Phthalate	46.4	50.0	93	41.6	50.0	83	41-120	11	20
Dimethyl Phthalate	44.7	50.0	89	40.4	50.0	81	46-116	10	20
Fluoranthene	42.8	50.0	86	38.6	50.0	77	35-127	10	20
Fluorene	43.3	50.0	87	39.4	50.0	79	46-121	10	20
Hexachlorobenzene	41.1	50.0	82	37.1	50.0	74	44-117	10	20
Hexachlorobutadiene	41.8	50.0	84	37.5	50.0	75	17-101	11	20
Hexachlorocyclopentadiene	25.1	50.0	50	25.7	50.0	51	10-74	2	20
Hexachloroethane	39.2	50.0	78	34.5	50.0	69	10-105	13	20
Indeno(1,2,3-cd)pyrene	45.6	50.0	91	43.3	50.0	87	38-131	5	20
Isophorone	45.1	50.0	90	40.6	50.0	81	44-115	10	20
N-Nitrosodi-n-propylamine	45.4	50.0	91	40.9	50.0	82	43-112	11	20
N-Nitrosodimethylamine	38.8	50.0	78	34.9	50.0	70	35-119	11	20
N-Nitrosodiphenylamine	42.8	50.0	86	39.0	50.0	78	53-106	9	20
Naphthalene	40.4	50.0	81	36.6	50.0	73	36-111	10	20
Nitrobenzene	42.1	50.0	84	38.2	50.0	76	42-116	10	20
Pentachlorophenol	71.1	100	71	69.4	100	69	15-141	2	20
Phenanthrene	38.9	50.0	78	35.5	50.0	71	43-120	9	20
Phenol	23.5	50.0	47	19.3	50.0	39	20-119	20	20
Pyrene	40.1	50.0	80	44.0	50.0	88	29-140	9	20
Pyridine	36.0	50.0	72	33.1	50.0	66	23-98	8	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Extracted:**	10/23/2006
Sample Matrix:	Ground water	**Date Analyzed:**	10/25/2006
		Time Analyzed:	10:45

Method Blank Summary
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	Method Blank	**File ID:**	Q:\TARGET\CHEM\MSE.I\E061025\E061490
Lab Code:	DWG0600914-3	**Instrument ID:**	MSE
Extraction Method:	EPA 3510C/3520C	**Level:**	Low
Analysis Method:	8270C	**Extraction Lot:**	DWG0600914

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	DWG0600914-1	Q:\TARGET\CHEM\MSE.I\E061025\E061491.D	10/25/06	11:18
Duplicate Lab Control Sample	DWG0600914-2	Q:\TARGET\CHEM\MSE.I\E061025\E061492.D	10/25/06	11:50
T-52-GW11	D0601625-002	Q:\TARGET\CHEM\MSE.I\E061025\E061494.D	10/25/06	12:54
T-52-GW26	D0601625-004	Q:\TARGET\CHEM\MSE.I\E061025\E061495.D	10/25/06	13:26
T-52-GW37	D0601625-005	Q:\TARGET\CHEM\MSE.I\E061025\E061496.D	10/25/06	13:59
T-53-GW11	D0601625-007	Q:\TARGET\CHEM\MSE.I\E061025\E061497.D	10/25/06	14:31
T-53-GW26	D0601625-008	Q:\TARGET\CHEM\MSE.I\E061025\E061498.D	10/25/06	15:03
T-53-GW38	D0601625-009	Q:\TARGET\CHEM\MSE.I\E061025\E061499.D	10/25/06	15:36
T-52-GW11	D0601625-002	Q:\TARGET\CHEM\MSE.I\E061025\E061502.D	10/25/06	17:12
T-53-GW11	D0601625-007	Q:\TARGET\CHEM\MSE.I\E061025\E061503.D	10/25/06	17:45

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Ground water

Service Request: D0601625

Lab Control Sample/Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	Lab Control Sample	**Sample Name:**	Duplicate Lab Control Sample
Lab Code:	DWG0600914-1	**Lab Code:**	DWG0600914-2
File ID:	Q:\TARGET\CHEM\MSE.I\E061025\E061491.D	**File ID:**	Q:\TARGET\CHEM\MSE.I\E061025\E061492.D
Instrument ID:	MSE	**Instrument ID:**	MSE
Date Extracted:	10/23/2006	**Date Extracted:**	10/23/2006
Date Analyzed:	10/25/2006	**Date Analyzed:**	10/25/2006
Time Analyzed:	11:18	**Time Analyzed:**	11:50

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Level: Low
Extraction Lot: DWG0600914

These Lab Control Samples apply to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	DWG0600914-3	Q:\TARGET\CHEM\MSE.I\E061025\E061490.D	10/25/06	10:45
T-52-GW11	D0601625-002	Q:\TARGET\CHEM\MSE.I\E061025\E061494.D	10/25/06	12:54
T-52-GW26	D0601625-004	Q:\TARGET\CHEM\MSE.I\E061025\E061495.D	10/25/06	13:26
T-52-GW37	D0601625-005	Q:\TARGET\CHEM\MSE.I\E061025\E061496.D	10/25/06	13:59
T-53-GW11	D0601625-007	Q:\TARGET\CHEM\MSE.I\E061025\E061497.D	10/25/06	14:31
T-53-GW26	D0601625-008	Q:\TARGET\CHEM\MSE.I\E061025\E061498.D	10/25/06	15:03
T-53-GW38	D0601625-009	Q:\TARGET\CHEM\MSE.I\E061025\E061499.D	10/25/06	15:36
T-52-GW11	D0601625-002	Q:\TARGET\CHEM\MSE.I\E061025\E061502.D	10/25/06	17:12
T-53-GW11	D0601625-007	Q:\TARGET\CHEM\MSE.I\E061025\E061503.D	10/25/06	17:45

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
Date Analyzed: 10/25/2006
Time Analyzed: 08:53

Tune Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E061025\E061486.D
Instrument ID: MSE
Column:

Analysis Method: 8270C
Analysis Lot: DWG0600915

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	60	35.9	6420	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	40.8	7300	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	46.6	8343	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	17897	PASS
199	198	5	9	7.1	1267	PASS
275	198	10	30	29.3	5235	PASS
365	198	1	100	4.9	884	PASS
441	443	0	100	67.3	1746	PASS
442	198	40	100	69.5	12438	PASS
443	442	17	23	20.9	2595	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	DWG0600915-2	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	09:09	
Method Blank	DWG0600914-3	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	10:45	
Lab Control Sample	DWG0600914-1	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	11:18	
Duplicate Lab Control Sample	DWG0600914-2	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	11:50	
T-52-GW11	D0601625-002	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	12:54	
T-52-GW26	D0601625-004	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	13:26	
T-52-GW37	D0601625-005	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	13:59	
T-53-GW11	D0601625-007	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	14:31	
T-53-GW26	D0601625-008	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	15:03	
T-53-GW38	D0601625-009	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	15:36	
T-52-GW11	D0601625-002	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	17:12	
T-53-GW11	D0601625-007	Q:\TARGET\CHEM\MSE.I\E061025\	10/25/2006	17:45	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 10/11/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1207
Instrument ID: MSE

Column: MS

Level ID	File ID	Level ID	File ID
A	C:\MSDCHEM\1\DATA\E061011\E061331.D	E	C:\MSDCHEM\1\DATA\E061011\E061335.D
B	C:\MSDCHEM\1\DATA\E061011\E061332.D	F	C:\MSDCHEM\1\DATA\E061011\E061336.D
C	C:\MSDCHEM\1\DATA\E061011\E061333.D	G	C:\MSDCHEM\1\DATA\E061011\E061337.D
D	C:\MSDCHEM\1\DATA\E061011\E061334.D	H	C:\MSDCHEM\1\DATA\E061011\E061338.D

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,2,4-Trichlorobenzene	A	1.0	0.331	B	2.0	0.346	C	4.0	0.348	D	10	0.350	E	25	0.348
	F	50	0.352	G	70	0.352	H	100	0.350						
1,2-Dichlorobenzene	A	1.0	1.38	B	2.0	1.39	C	4.0	1.42	D	10	1.42	E	25	1.45
	F	50	1.48	G	70	1.48	H	100	1.47						
1,3-Dichlorobenzene	A	1.0	1.45	B	2.0	1.53	C	4.0	1.48	D	10	1.50	E	25	1.51
	F	50	1.56	G	70	1.56	H	100	1.55						
‡ 1,4-Dichlorobenzene	A	1.0	1.61	B	2.0	1.59	C	4.0	1.52	D	10	1.55	E	25	1.54
	F	50	1.59	G	70	1.59	H	100	1.60						
1,4-Dioxane	A	1.0	0.662	B	2.0	0.677	C	4.0	0.658	D	10	0.658	E	25	0.658
	F	50	0.666	G	70	0.655	H	100	0.648						
2,4,5-Trichlorophenol	A	1.0	0.345	B	2.0	0.354	C	4.0	0.377	D	10	0.385	E	25	0.391
	F	50	0.412	G	70	0.417	H	100	0.420						
‡ 2,4,6-Trichlorophenol	A	1.0	0.305	B	2.0	0.331	C	4.0	0.351	D	10	0.355	E	25	0.364
	F	50	0.381	G	70	0.387	H	100	0.388						
‡ 2,4-Dichlorophenol	A	1.0	0.256	B	2.0	0.283	C	4.0	0.281	D	10	0.288	E	25	0.298
	F	50	0.305	G	70	0.303	H	100	0.304						
2,4-Dimethylphenol	A	1.0	0.252	B	2.0	0.250	C	4.0	0.271	D	10	0.278	E	25	0.292
	F	50	0.304	G	70	0.306	H	100	0.312						
† 2,4-Dinitrophenol							C	8.0	0.111	D	20	0.153	E	50	0.187
	F	100	0.205	G	140	0.211	H	200	0.221						
2,4-Dinitrotoluene	A	1.0	0.301	B	2.0	0.317	C	4.0	0.342	D	10	0.359	E	25	0.375
	F	50	0.380	G	70	0.392	H	100	0.397						
2,6-Dinitrotoluene	A	1.0	0.225	B	2.0	0.241	C	4.0	0.268	D	10	0.278	E	25	0.284
	F	50	0.295	G	70	0.294	H	100	0.299						
2-Chloronaphthalene	A	1.0	1.01	B	2.0	1.01	C	4.0	1.02	D	10	1.02	E	25	1.03
	F	50	1.06	G	70	1.08	H	100	1.08						
‡ 2-Chlorophenol	A	1.0	1.16	B	2.0	1.23	C	4.0	1.23	D	10	1.28	E	25	1.30
	F	50	1.32	G	70	1.32	H	100	1.31						

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 10/11/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1207
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Methyl-4,6-dinitrophenol							C	8.0	0.112	D	20	0.135	E	50	0.149
	F	100	0.155	G	140	0.160	H	200	0.160						
2-Methylnaphthalene	A	1.0	0.654	B	2.0	0.683	C	4.0	0.686	D	10	0.697	E	25	0.713
	F	50	0.725	G	70	0.733	H	100	0.736						
2-Methylphenol	A	1.0	1.03	B	2.0	1.09	C	4.0	1.09	D	10	1.12	E	25	1.13
	F	50	1.13	G	70	1.16	H	100	1.15						
2-Nitroaniline				B	2.0	0.268	C	4.0	0.291	D	10	0.303	E	25	0.313
	F	50	0.327	G	70	0.338	H	100	0.335						
‡ 2-Nitrophenol	A	1.0	0.150	B	2.0	0.167	C	4.0	0.185	D	10	0.184	E	25	0.194
	F	50	0.198	G	70	0.198	H	100	0.197						
3,3'-Dichlorobenzidine							C	8.0	0.275	D	20	0.220	E	50	0.260
	F	100	0.337	G	140	0.354	H	200	0.350						
3-Nitroaniline				B	2.0	0.223	C	4.0	0.237	D	10	0.190	E	25	0.212
	F	50	0.248	G	70	0.269	H	100	0.270						
4-Bromophenyl Phenyl Ether	A	1.0	0.210	B	2.0	0.215	C	4.0	0.221	D	10	0.224	E	25	0.224
	F	50	0.231	G	70	0.233	H	100	0.236						
4-Chloro-3-methylphenol	A	1.0	0.249	B	2.0	0.255	C	4.0	0.275	D	10	0.281	E	25	0.296
	F	50	0.302	G	70	0.310	H	100	0.306						
4-Chloroaniline	A	1.0	0.296	B	2.0	0.339	C	4.0	0.355	D	10	0.320	E	25	0.357
	F	50	0.365	G	70	0.367	H	100	0.376						
4-Chlorophenyl Phenyl Ether	A	1.0	0.598	B	2.0	0.620	C	4.0	0.624	D	10	0.630	E	25	0.634
	F	50	0.654	G	70	0.665	H	100	0.676						
4-Methylphenol	A	1.0	1.35	B	2.0	1.40	C	4.0	1.40	D	10	1.44	E	25	1.47
	F	50	1.51	G	70	1.52	H	100	1.51						
4-Nitroaniline	A	1.0	0.168	B	2.0	0.196	C	4.0	0.203	D	10	0.203	E	25	0.205
	F	50	0.231	G	70	0.241	H	100	0.247						
4-Nitrophenol							C	8.0	0.153	D	20	0.165	E	50	0.177
	F	100	0.188	G	140	0.198	H	200	0.199						
Acenaphthene	A	1.0	0.947	B	2.0	0.985	C	4.0	1.00	D	10	0.998	E	25	1.01
	F	50	1.02	G	70	1.05	H	100	1.08						
Acenaphthylene	A	1.0	1.51	B	2.0	1.56	C	4.0	1.63	D	10	1.64	E	25	1.66
	F	50	1.70	G	70	1.75	H	100	1.76						
Aniline	A	1.0	1.67	B	2.0	1.78	C	4.0	1.86	D	10	1.80	E	25	1.76
	F	50	1.79	G	70	1.80	H	100	1.81						

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 10/11/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1207
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Anthracene	A	1.0	0.964	B	2.0	1.06	C	4.0	1.07	D	10	1.09	E	25	1.12
	F	50	1.14	G	70	1.16	H	100	1.17						
Benz(a)anthracene	A	1.0	1.10	B	2.0	1.07	C	4.0	1.08	D	10	1.12	E	25	1.12
	F	50	1.15	G	70	1.16	H	100	1.15						
† Benzo(a)pyrene	A	1.0	0.872	B	2.0	0.871	C	4.0	0.976	D	10	1.02	E	25	1.08
	F	50	1.11	G	70	1.11	H	100	1.13						
Benzo(b)fluoranthene	A	1.0	1.19	B	2.0	1.18	C	4.0	1.21	D	10	1.24	E	25	1.27
	F	50	1.37	G	70	1.36	H	100	1.43						
Benzo(g,h,i)perylene	A	1.0	0.678	B	2.0	0.667	C	4.0	0.655	D	10	0.697	E	25	0.775
	F	50	0.708	G	70	0.723	H	100	0.674						
Benzo(k)fluoranthene	A	1.0	1.10	B	2.0	1.17	C	4.0	1.29	D	10	1.29	E	25	1.29
	F	50	1.32	G	70	1.34	H	100	1.35						
Benzoic acid										D	10	0.164	E	25	0.188
	F	50	0.201	G	70	0.205	H	100	0.207						
Benzyl alcohol	A	1.0	0.687	B	2.0	0.727	C	4.0	0.773	D	10	0.787	E	25	0.800
	F	50	0.809	G	70	0.821	H	100	0.807						
bis(2-Chloroethoxy)methane	A	1.0	0.368	B	2.0	0.381	C	4.0	0.380	D	10	0.384	E	25	0.393
	F	50	0.398	G	70	0.399	H	100	0.394						
Bis(2-chloroethyl) Ether	A	1.0	1.27	B	2.0	1.28	C	4.0	1.28	D	10	1.28	E	25	1.29
	F	50	1.30	G	70	1.31	H	100	1.31						
Bis(2-Chloroisopropyl)ether	A	1.0	1.80	B	2.0	1.81	C	4.0	1.78	D	10	1.80	E	25	1.77
	F	50	1.81	G	70	1.80	H	100	1.78						
Bis(2-ethylhexyl) Phthalate	A	1.0	0.641	B	2.0	0.655	C	4.0	0.742	D	10	0.753	E	25	0.823
	F	50	0.819	G	70	0.816	H	100	0.787						
Butyl Benzyl Phthalate	A	1.0	0.488	B	2.0	0.542	C	4.0	0.630	D	10	0.626	E	25	0.658
	F	50	0.655	G	70	0.678	H	100	0.670						
Chrysene	A	1.0	1.02	B	2.0	1.04	C	4.0	1.03	D	10	1.04	E	25	1.04
	F	50	1.06	G	70	1.06	H	100	1.06						
Di-n-butyl Phthalate	A	1.0	0.921	B	2.0	1.01	C	4.0	1.08	D	10	1.13	E	25	1.20
	F	50	1.18	G	70	1.19	H	100	1.17						
‡ Di-n-octyl Phthalate							C	4.0	1.69	D	10	1.73	E	25	1.95
	F	50	2.14	G	70	2.25	H	100	2.30						
Dibenz(a,h)anthracene	A	1.0	0.665	B	2.0	0.670	C	4.0	0.656	D	10	0.725	E	25	0.793
	F	50	0.750	G	70	0.764	H	100	0.717						

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 10/11/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1207
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dibenzofuran	A	1.0	1.49	B	2.0	1.49	C	4.0	1.51	D	10	1.52	E	25	1.53
	F	50	1.57	G	70	1.60	H	100	1.62						
Diethyl Phthalate	A	1.0	1.12	B	2.0	1.15	C	4.0	1.18	D	10	1.20	E	25	1.23
	F	50	1.25	G	70	1.28	H	100	1.28						
Dimethyl Phthalate	A	1.0	1.10	B	2.0	1.16	C	4.0	1.19	D	10	1.19	E	25	1.21
	F	50	1.24	G	70	1.26	H	100	1.25						
‡ Fluoranthene	A	1.0	0.906	B	2.0	0.932	C	4.0	1.01	D	10	0.993	E	25	1.06
	F	50	1.08	G	70	1.08	H	100	1.07						
Fluorene	A	1.0	1.11	B	2.0	1.18	C	4.0	1.20	D	10	1.21	E	25	1.24
	F	50	1.29	G	70	1.33	H	100	1.35						
Hexachlorobenzene	A	1.0	0.217	B	2.0	0.234	C	4.0	0.230	D	10	0.229	E	25	0.231
	F	50	0.234	G	70	0.240	H	100	0.242						
‡ Hexachlorobutadiene	A	1.0	0.214	B	2.0	0.215	C	4.0	0.205	D	10	0.207	E	25	0.214
	F	50	0.219	G	70	0.220	H	100	0.220						
† Hexachlorocyclopentadiene							C	4.0	0.283	D	10	0.311	E	25	0.347
	F	50	0.367	G	70	0.376	H	100	0.382						
Hexachloroethane	A	1.0	0.577	B	2.0	0.564	C	4.0	0.594	D	10	0.584	E	25	0.586
	F	50	0.602	G	70	0.604	H	100	0.609						
Indeno(1,2,3-cd)pyrene	A	1.0	0.811	B	2.0	0.792	C	4.0	0.750	D	10	0.842	E	25	0.936
	F	50	0.872	G	70	0.890	H	100	0.842						
Isophorone	A	1.0	0.592	B	2.0	0.607	C	4.0	0.621	D	10	0.652	E	25	0.662
	F	50	0.677	G	70	0.677	H	100	0.667						
† N-Nitrosodi-n-propylamine	A	1.0	0.842	B	2.0	0.884	C	4.0	0.905	D	10	0.926	E	25	0.941
	F	50	0.959	G	70	0.969	H	100	0.954						
N-Nitrosodimethylamine	A	1.0	0.765	B	2.0	0.759	C	4.0	0.787	D	10	0.763	E	25	0.764
	F	50	0.784	G	70	0.776	H	100	0.762						
‡ N-Nitrosodiphenylamine	A	1.0	0.501	B	2.0	0.539	C	4.0	0.524	D	10	0.523	E	25	0.472
	F	50	0.502	G	70	0.526	H	100	0.555						
Naphthalene	A	1.0	0.975	B	2.0	0.982	C	4.0	0.975	D	10	0.981	E	25	0.998
	F	50	1.00	G	70	1.01	H	100	1.01						
Nitrobenzene	A	1.0	0.367	B	2.0	0.381	C	4.0	0.381	D	10	0.385	E	25	0.395
	F	50	0.399	G	70	0.395	H	100	0.392						
‡ Pentachlorophenol										D	20	0.130	E	50	0.153
	F	100	0.164	G	140	0.172	H	200	0.178						

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 10/11/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1207
Instrument ID: MSE

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Phenanthrene	A	1.0	1.11	B	2.0	1.13	C	4.0	1.12	D	10	1.11	E	25	1.13
	F	50	1.15	G	70	1.18	H	100	1.19						
‡ Phenol	A	1.0	1.43	B	2.0	1.54	C	4.0	1.50	D	10	1.54	E	25	1.55
	F	50	1.59	G	70	1.60	H	100	1.59						
Pyrene	A	1.0	1.60	B	2.0	1.58	C	4.0	1.67	D	10	1.67	E	25	1.65
	F	50	1.71	G	70	1.81	H	100	1.87						
Pyridine	A	1.0	1.59	B	2.0	1.58	C	4.0	1.63	D	10	1.64	E	25	1.64
	F	50	1.69	G	70	1.68	H	100	1.65						
2,4,6-Tribromophenol	A	1.0	0.0699	B	2.0	0.0800	C	4.0	0.0842	D	10	0.0915	E	25	0.0945
	F	50	0.100	G	70	0.102	H	100	0.104						
2-Fluorobiphenyl	A	1.0	1.16	B	2.0	1.18	C	4.0	1.19	D	10	1.18	E	25	1.19
	F	50	1.22	G	70	1.24	H	100	1.26						
2-Fluorophenol	A	1.0	1.05	B	2.0	1.00	C	4.0	1.05	D	10	1.06	E	25	1.09
	F	50	1.12	G	70	1.11	H	100	1.12						
Nitrobenzene-d5	A	1.0	0.326	B	2.0	0.340	C	4.0	0.349	D	10	0.348	E	25	0.360
	F	50	0.363	G	70	0.362	H	100	0.355						
Phenol-d5	A	1.0	1.40	B	2.0	1.35	C	4.0	1.41	D	10	1.42	E	25	1.45
	F	50	1.48	G	70	1.49	H	100	1.48						
Terphenyl-d14	A	1.0	0.963	B	2.0	0.978	C	4.0	1.02	D	10	1.05	E	25	1.05
	F	50	1.09	G	70	1.15	H	100	1.19						

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 10/11/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1207
Instrument ID: MSE

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	2.0		≤ 15	0.347		
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	2.7		≤ 15	1.44		
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	2.6		≤ 15	1.52		
‡ 1,4-Dichlorobenzene	MS	AverageRF	% RSD	1.9		≤ 30	1.57		
1,4-Dioxane	MS	AverageRF	% RSD	1.3		≤ 15	0.660		
2,4,5-Trichlorophenol	TRG	AverageRF	% RSD	7.3		≤ 15	0.388		
‡ 2,4,6-Trichlorophenol	TRG	AverageRF	% RSD	8.1		≤ 30	0.358		
‡ 2,4-Dichlorophenol	TRG	AverageRF	% RSD	5.8		≤ 30	0.290		
2,4-Dimethylphenol	TRG	AverageRF	% RSD	8.6		≤ 15	0.283		
† 2,4-Dinitrophenol	TRG	Linear	R2	0.999		≥ 0.99	0.181		0.05
2,4-Dinitrotoluene	MS	AverageRF	% RSD	9.8		≤ 15	0.358		
2,6-Dinitrotoluene	TRG	AverageRF	% RSD	9.8		≤ 15	0.273		
2-Chloronaphthalene	TRG	AverageRF	% RSD	2.7		≤ 15	1.04		
2-Chlorophenol	MS	AverageRF	% RSD	4.6		≤ 15	1.27		
2-Methyl-4,6-dinitrophenol	TRG	AverageRF	% RSD	12.8		≤ 15	0.145		
2-Methylnaphthalene	TRG	AverageRF	% RSD	4.1		≤ 15	0.703		
2-Methylphenol	TRG	AverageRF	% RSD	3.8		≤ 15	1.11		
2-Nitroaniline	TRG	AverageRF	% RSD	8.2		≤ 15	0.311		
‡ 2-Nitrophenol	TRG	AverageRF	% RSD	9.4		≤ 30	0.184		
3,3'-Dichlorobenzidine	TRG	Linear	R2	0.997		≥ 0.99	0.299		
3-Nitroaniline	TRG	AverageRF	% RSD	12.5		≤ 15	0.236		
4-Bromophenyl Phenyl Ether	TRG	AverageRF	% RSD	4.0		≤ 15	0.224		
4-Chloro-3-methylphenol	MS	AverageRF	% RSD	8.2		≤ 15	0.284		
4-Chloroaniline	TRG	AverageRF	% RSD	7.9		≤ 15	0.347		
4-Chlorophenyl Phenyl Ether	TRG	AverageRF	% RSD	4.0		≤ 15	0.638		
4-Methylphenol	TRG	AverageRF	% RSD	4.4		≤ 15	1.45		
4-Nitroaniline	TRG	AverageRF	% RSD	12.4		≤ 15	0.212		
† 4-Nitrophenol	MS	AverageRF	% RSD	10.4		≤ 15	0.180		0.05
‡ Acenaphthene	MS	AverageRF	% RSD	4.0		≤ 30	1.01		
Acenaphthylene	TRG	AverageRF	% RSD	5.2		≤ 15	1.65		
Aniline	TRG	AverageRF	% RSD	3.0		≤ 15	1.78		
Anthracene	TRG	AverageRF	% RSD	6.1		≤ 15	1.10		
Benz(a)anthracene	TRG	AverageRF	% RSD	3.1		≤ 15	1.12		
‡ Benzo(a)pyrene	TRG	AverageRF	% RSD	10.3		≤ 30	1.02		
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	7.2		≤ 15	1.28		
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	5.5		≤ 15	0.697		
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	7.0		≤ 15	1.27		
Benzoic acid	TRG	AverageRF	% RSD	9.2		≤ 15	0.193		
Benzyl alcohol	TRG	AverageRF	% RSD	6.0		≤ 15	0.776		
bis(2-Chloroethoxy)methane	TRG	AverageRF	% RSD	2.7		≤ 15	0.387		
Bis(2-chloroethyl) Ether	TRG	AverageRF	% RSD	1.2		≤ 15	1.29		
Bis(2-Chloroisopropyl)ether	TRG	AverageRF	% RSD	0.8		≤ 15	1.79		

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 10/11/2006

Initial Calibration Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL ID: CAL1207
Instrument ID: MSE

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Bis(2-ethylhexyl) Phthalate	TRG	AverageRF	% RSD	9.6		≤ 15	0.754		
Butyl Benzyl Phthalate	TRG	AverageRF	% RSD	11.0		≤ 15	0.618		
Chrysene	TRG	AverageRF	% RSD	1.6		≤ 15	1.05		
Di-n-butyl Phthalate	TRG	AverageRF	% RSD	9.0		≤ 15	1.11		
‡ Di-n-octyl Phthalate	TRG	AverageRF	% RSD	13.0		≤ 30	2.01		
Dibenz(a,h)anthracene	TRG	AverageRF	% RSD	7.0		≤ 15	0.717		
Dibenzofuran	TRG	AverageRF	% RSD	3.3		≤ 15	1.54		
Diethyl Phthalate	TRG	AverageRF	% RSD	4.9		≤ 15	1.21		
Dimethyl Phthalate	TRG	AverageRF	% RSD	4.5		≤ 15	1.20		
‡ Fluoranthene	TRG	AverageRF	% RSD	6.9		≤ 30	1.02		
Fluorene	TRG	AverageRF	% RSD	6.3		≤ 15	1.24		
Hexachlorobenzene	TRG	AverageRF	% RSD	3.3		≤ 15	0.232		
‡ Hexachlorobutadiene	TRG	AverageRF	% RSD	2.8		≤ 30	0.214		
† Hexachlorocyclopentadiene	TRG	AverageRF	% RSD	11.5		≤ 15	0.344		0.05
Hexachloroethane	TRG	AverageRF	% RSD	2.6		≤ 15	0.590		
Indeno(1,2,3-cd)pyrene	TRG	AverageRF	% RSD	6.9		≤ 15	0.842		
Isophorone	TRG	AverageRF	% RSD	5.1		≤ 15	0.644		
† N-Nitrosodi-n-propylamine	MS	AverageRF	% RSD	4.7		≤ 15	0.923		0.05
N-Nitrosodimethylamine	TRG	AverageRF	% RSD	1.4		≤ 15	0.770		
‡ N-Nitrosodiphenylamine	TRG	AverageRF	% RSD	4.9		≤ 15	0.518		
Naphthalene	TRG	AverageRF	% RSD	1.6		≤ 15	0.992		
Nitrobenzene	TRG	AverageRF	% RSD	2.7		≤ 15	0.387		
‡ Pentachlorophenol	MS	AverageRF	% RSD	11.8		≤ 30	0.159		
Phenanthrene	TRG	AverageRF	% RSD	2.6		≤ 15	1.14		
‡ Phenol	MS	AverageRF	% RSD	3.5		≤ 30	1.54		
Pyrene	MS	AverageRF	% RSD	5.9		≤ 15	1.70		
Pyridine	TRG	AverageRF	% RSD	2.3		≤ 15	1.64		
2,4,6-Tribromophenol	SURR	AverageRF	% RSD	13.1		≤ 15	0.0908		
2-Fluorobiphenyl	SURR	AverageRF	% RSD	2.9		≤ 15	1.20		
2-Fluorophenol	SURR	AverageRF	% RSD	3.9		≤ 15	1.07		
Nitrobenzene-d5	SURR	AverageRF	% RSD	3.6		≤ 15	0.350		
Phenol-d5	SURR	AverageRF	% RSD	3.3		≤ 15	1.44		
Terphenyl-d14	SURR	AverageRF	% RSD	7.3		≤ 15	1.06		

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† SPCC Compound **‡ CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 10/11/2006
Date Analyzed: 10/11/2006

Second Source Calibration Verification
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL ID: CAL1207
Units: mg/L

File ID: C:\MSDCHEM\1\DATA\E061011\E061339.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	50	50	0.347	0.347	0	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	50	51	1.44	1.46	2	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	50	50	1.52	1.53	1	NA	± 30 %	AverageRF
‡ 1,4-Dichlorobenzene	50	50	1.57	1.57	0	NA	± 30 %	AverageRF
1,4-Dioxane	50	49	0.660	0.643	-3	NA	± 30 %	AverageRF
2,4,5-Trichlorophenol	50	52	0.388	0.405	4	NA	± 30 %	AverageRF
‡ 2,4,6-Trichlorophenol	50	52	0.358	0.374	5	NA	± 30 %	AverageRF
‡ 2,4-Dichlorophenol	50	50	0.290	0.291	0	NA	± 30 %	AverageRF
2,4-Dimethylphenol	50	51	0.283	0.290	2	NA	± 30 %	AverageRF
† 2,4-Dinitrophenol	100	98	0.181	0.206	NA	-2	± 30 %	Linear
2,4-Dinitrotoluene	50	55	0.358	0.391	9	NA	± 30 %	AverageRF
2,6-Dinitrotoluene	50	54	0.273	0.295	8	NA	± 30 %	AverageRF
2-Chloronaphthalene	50	51	1.04	1.06	2	NA	± 30 %	AverageRF
2-Chlorophenol	50	51	1.27	1.30	3	NA	± 30 %	AverageRF
2-Methyl-4,6-dinitrophenol	100	110	0.145	0.162	12	NA	± 30 %	AverageRF
2-Methylnaphthalene	50	50	0.703	0.701	0	NA	± 30 %	AverageRF
2-Methylphenol	50	50	1.11	1.11	-1	NA	± 30 %	AverageRF
2-Nitroaniline	50	53	0.311	0.329	6	NA	± 30 %	AverageRF
‡ 2-Nitrophenol	50	53	0.184	0.194	6	NA	± 30 %	AverageRF
3,3'-Dichlorobenzidine	100	91	0.299	0.306	NA	-9	± 30 %	Linear
3-Nitroaniline	50	52	0.236	0.247	5	NA	± 30 %	AverageRF
4-Bromophenyl Phenyl Ether	50	52	0.224	0.235	5	NA	± 30 %	AverageRF
4-Chloro-3-methylphenol	50	53	0.284	0.302	6	NA	± 30 %	AverageRF
4-Chloroaniline	50	50	0.347	0.350	1	NA	± 30 %	AverageRF
4-Chlorophenyl Phenyl Ether	50	51	0.638	0.655	3	NA	± 30 %	AverageRF
4-Methylphenol	50	50	1.45	1.45	0	NA	± 30 %	AverageRF
4-Nitroaniline	50	54	0.212	0.230	9	NA	± 30 %	AverageRF
† 4-Nitrophenol	100	100	0.180	0.186	3	NA	± 30 %	AverageRF
‡ Acenaphthene	50	50	1.01	1.01	0	NA	± 30 %	AverageRF
Acenaphthylene	50	50	1.65	1.66	1	NA	± 30 %	AverageRF
Aniline	50	48	1.78	1.72	-4	NA	± 30 %	AverageRF
Anthracene	50	51	1.10	1.13	3	NA	± 30 %	AverageRF
Benz(a)anthracene	50	53	1.12	1.18	5	NA	± 30 %	AverageRF
‡ Benzo(a)pyrene	50	53	1.02	1.09	7	NA	± 30 %	AverageRF
Benzo(b)fluoranthene	50	55	1.28	1.41	10	NA	± 30 %	AverageRF
Benzo(g,h,i)perylene	50	45	0.697	0.631	-9	NA	± 30 %	AverageRF
‡ Benzo(k)fluoranthene	50	54	1.27	1.36	8	NA	± 30 %	AverageRF
Benzoic acid	50	52	0.193	0.200	3	NA	± 30 %	AverageRF
Benzyl alcohol	50	51	0.776	0.793	2	NA	± 30 %	AverageRF
bis(2-Chloroethoxy)methane	50	51	0.387	0.395	2	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 10/11/2006
Date Analyzed: 10/11/2006

Second Source Calibration Verification
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL ID: CAL1207
Units: mg/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Bis(2-chloroethyl) Ether	50	50	1.29	1.28	-1	NA	± 30 %	AverageRF
Bis(2-Chloroisopropyl)ether	50	49	1.79	1.77	-2	NA	± 30 %	AverageRF
Bis(2-ethylhexyl) Phthalate	50	54	0.754	0.810	7	NA	± 30 %	AverageRF
Butyl Benzyl Phthalate	50	55	0.618	0.675	9	NA	± 30 %	AverageRF
Chrysene	50	49	1.05	1.03	-1	NA	± 30 %	AverageRF
Di-n-butyl Phthalate	50	53	1.11	1.17	6	NA	± 30 %	AverageRF
‡ Di-n-octyl Phthalate	50	55	2.01	2.21	10	NA	± 30 %	AverageRF
Dibenz(a,h)anthracene	50	46	0.717	0.665	-7	NA	± 30 %	AverageRF
Dibenzofuran	50	50	1.54	1.55	0	NA	± 30 %	AverageRF
Diethyl Phthalate	50	52	1.21	1.26	4	NA	± 30 %	AverageRF
Dimethyl Phthalate	50	52	1.20	1.25	4	NA	± 30 %	AverageRF
‡ Fluoranthene	50	49	1.02	1.00	-2	NA	± 30 %	AverageRF
Fluorene	50	51	1.24	1.26	2	NA	± 30 %	AverageRF
Hexachlorobenzene	50	51	0.232	0.238	3	NA	± 30 %	AverageRF
‡ Hexachlorobutadiene	50	51	0.214	0.218	2	NA	± 30 %	AverageRF
† Hexachlorocyclopentadiene	50	52	0.344	0.357	4	NA	± 30 %	AverageRF
Hexachloroethane	50	52	0.590	0.610	3	NA	± 30 %	AverageRF
Indeno(1,2,3-cd)pyrene	50	48	0.842	0.812	-4	NA	± 30 %	AverageRF
Isophorone	50	52	0.644	0.674	5	NA	± 30 %	AverageRF
† N-Nitrosodi-n-propylamine	50	51	0.923	0.949	3	NA	± 30 %	AverageRF
N-Nitrosodimethylamine	50	50	0.770	0.765	-1	NA	± 30 %	AverageRF
‡ N-Nitrosodiphenylamine	50	47	0.518	0.488	-6	NA	± 30 %	AverageRF
Naphthalene	50	49	0.992	0.982	-1	NA	± 30 %	AverageRF
Nitrobenzene	50	51	0.387	0.396	2	NA	± 30 %	AverageRF
‡ Pentachlorophenol	100	100	0.159	0.161	1	NA	± 30 %	AverageRF
Phenanthrene	50	50	1.14	1.13	0	NA	± 30 %	AverageRF
‡ Phenol	50	50	1.54	1.55	1	NA	± 30 %	AverageRF
Pyrene	50	54	1.70	1.82	7	NA	± 30 %	AverageRF
Pyridine	50	50	1.64	1.64	0	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
Date Analyzed: 10/25/2006

Continuing Calibration Verification Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 10/11/2006
ICAL ID: CAL1207
Analysis Lot: DWG0600915
Units: mg/L

File ID: C:\MSDCHEM\1\DATA\E061025\E061487.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D		%Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	50	51		0.347	0.357	3		NA	± 40 %	AverageRF
1,2-Dichlorobenzene	50	50		1.44	1.43	-1		NA	± 40 %	AverageRF
1,3-Dichlorobenzene	50	50		1.52	1.52	0		NA	± 40 %	AverageRF
‡ 1,4-Dichlorobenzene	50	49		1.57	1.55	-1		NA	± 20 %	AverageRF
1,4-Dioxane	50	56		0.660	0.735	11		NA	± 40 %	AverageRF
2,4,5-Trichlorophenol	50	50		0.388	0.384	-1		NA	± 40 %	AverageRF
‡ 2,4,6-Trichlorophenol	50	52		0.358	0.371	4		NA	± 20 %	AverageRF
‡ 2,4-Dichlorophenol	50	48		0.290	0.281	-3		NA	± 20 %	AverageRF
2,4-Dimethylphenol	50	49		0.283	0.279	-1		NA	± 40 %	AverageRF
† 2,4-Dinitrophenol	100	75	0.05	0.181	0.155	NA		-25	± 40 %	Linear
2,4-Dinitrotoluene	50	53		0.358	0.382	7		NA	± 40 %	AverageRF
2,6-Dinitrotoluene	50	53		0.273	0.292	7		NA	± 40 %	AverageRF
2-Chloronaphthalene	50	50		1.04	1.05	1		NA	± 40 %	AverageRF
2-Chlorophenol	50	50		1.27	1.26	-1		NA	± 40 %	AverageRF
2-Methyl-4,6-dinitrophenol	100	98		0.145	0.142	-2		NA	± 40 %	AverageRF
2-Methylnaphthalene	50	50		0.703	0.701	0		NA	± 40 %	AverageRF
2-Methylphenol	50	48		1.11	1.08	-3		NA	± 40 %	AverageRF
2-Nitroaniline	50	49		0.311	0.304	-2		NA	± 40 %	AverageRF
‡ 2-Nitrophenol	50	52		0.184	0.190	3		NA	± 20 %	AverageRF
3,3'-Dichlorobenzidine	100	80		0.299	0.265	NA		-20	± 40 %	Linear
3-Nitroaniline	50	30		0.236	0.140	-41	*	NA	± 40 %	AverageRF
4-Bromophenyl Phenyl Ether	50	56		0.224	0.249	11		NA	± 40 %	AverageRF
4-Chloro-3-methylphenol	50	53		0.284	0.302	6		NA	± 40 %	AverageRF
4-Chloroaniline	50	41		0.347	0.286	-17		NA	± 40 %	AverageRF
4-Chlorophenyl Phenyl Ether	50	53		0.638	0.679	6		NA	± 40 %	AverageRF
4-Methylphenol	50	48		1.45	1.40	-3		NA	± 40 %	AverageRF
4-Nitroaniline	50	35		0.212	0.148	-30		NA	± 40 %	AverageRF
† 4-Nitrophenol	100	88	0.05	0.180	0.158	-12		NA	± 40 %	AverageRF
‡ Acenaphthene	50	50		1.01	1.00	-1		NA	± 20 %	AverageRF
Acenaphthylene	50	49		1.65	1.63	-1		NA	± 40 %	AverageRF
Aniline	50	41		1.78	1.46	-18		NA	± 40 %	AverageRF
Anthracene	50	51		1.10	1.12	2		NA	± 40 %	AverageRF
Benz(a)anthracene	50	55		1.12	1.24	11		NA	± 40 %	AverageRF
Benzo(a)pyrene	50	52		1.02	1.05	3		NA	± 20 %	AverageRF
Benzo(b)fluoranthene	50	50		1.28	1.28	-1		NA	± 40 %	AverageRF
Benzo(g,h,i)perylene	50	59		0.697	0.819	17		NA	± 40 %	AverageRF
Benzo(k)fluoranthene	50	50		1.27	1.28	1		NA	± 40 %	AverageRF
Benzoic acid	50	39		0.193	0.150	-22		NA	± 40 %	AverageRF
Benzyl alcohol	50	52		0.776	0.813	5		NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
Date Analyzed: 10/25/2006

Continuing Calibration Verification Summary
Semivolatile Organic Compounds by EPA Method 8270C

ICAL Type: Internal Standard
Analysis Method: 8270C

ICAL Date: 10/11/2006
ICAL ID: CAL1207
Analysis Lot: DWG0600915
Units: mg/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
bis(2-Chloroethoxy)methane	50	49		0.387	0.382	-1	NA	± 40 %	AverageRF
Bis(2-chloroethyl) Ether	50	49		1.29	1.26	-3	NA	± 40 %	AverageRF
Bis(2-Chloroisopropyl)ether	50	50		1.79	1.78	-1	NA	± 40 %	AverageRF
Bis(2-ethylhexyl) Phthalate	50	66		0.754	0.994	32	NA	± 40 %	AverageRF
Butyl Benzyl Phthalate	50	57		0.618	0.708	14	NA	± 40 %	AverageRF
Chrysene	50	53		1.05	1.10	5	NA	± 40 %	AverageRF
Di-n-butyl Phthalate	50	60		1.11	1.33	20	NA	± 40 %	AverageRF
‡ Di-n-octyl Phthalate	50	52		2.01	2.09	4	NA	± 20 %	AverageRF
Dibenz(a,h)anthracene	50	56		0.717	0.801	12	NA	± 40 %	AverageRF
Dibenzofuran	50	49		1.54	1.52	-2	NA	± 40 %	AverageRF
Diethyl Phthalate	50	54		1.21	1.31	8	NA	± 40 %	AverageRF
Dimethyl Phthalate	50	53		1.20	1.26	5	NA	± 40 %	AverageRF
‡ Fluoranthene	50	55		1.02	1.12	10	NA	± 20 %	AverageRF
Fluorene	50	51		1.24	1.25	1	NA	± 40 %	AverageRF
Hexachlorobenzene	50	55		0.232	0.255	10	NA	± 40 %	AverageRF
‡ Hexachlorobutadiene	50	54		0.214	0.230	7	NA	± 20 %	AverageRF
† Hexachlorocyclopentadiene	50	32	0.05	0.344	0.222	-35	NA	± 40 %	AverageRF
Hexachloroethane	50	52		0.590	0.614	4	NA	± 40 %	AverageRF
Indeno(1,2,3-cd)pyrene	50	60		0.842	1.00	19	NA	± 40 %	AverageRF
Isophorone	50	55		0.644	0.708	10	NA	± 40 %	AverageRF
† N-Nitrosodi-n-propylamine	50	54	0.05	0.923	0.996	8	NA	± 40 %	AverageRF
N-Nitrosodimethylamine	50	52		0.770	0.801	4	NA	± 40 %	AverageRF
‡ N-Nitrosodiphenylamine	50	43		0.518	0.444	-14	NA	± 40 %	AverageRF
Naphthalene	50	49		0.992	0.973	-2	NA	± 40 %	AverageRF
Nitrobenzene	50	52		0.387	0.406	5	NA	± 40 %	AverageRF
‡ Pentachlorophenol	100	99		0.159	0.158	-1	NA	± 20 %	AverageRF
Phenanthrene	50	50		1.14	1.13	-1	NA	± 40 %	AverageRF
‡ Phenol	50	50		1.54	1.54	0	NA	± 20 %	AverageRF
Pyrene	50	46		1.70	1.56	-8	NA	± 40 %	AverageRF
Pyridine	50	55		1.64	1.80	10	NA	± 40 %	AverageRF
2,4,6-Tribromophenol	50	57		0.0908	0.104	14	NA	± 40 %	AverageRF
2-Fluorobiphenyl	50	50		1.20	1.20	0	NA	± 40 %	AverageRF
2-Fluorophenol	50	47		1.07	1.01	-6	NA	± 40 %	AverageRF
Nitrobenzene-d5	50	52		0.350	0.361	3	NA	± 40 %	AverageRF
‡ Phenol-d5	50	49		1.44	1.42	-1	NA	± 40 %	AverageRF
Terphenyl-d14	50	49		1.06	1.04	-2	NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625

Analysis Run Log
Semivolatile Organic Compounds by EPA Method 8270C

Analysis Method: 8270C

Analysis Lot: DWG0600915
Instrument ID: MSE

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\E061486.D	GC/MS Tuning - Decafluorotriphenyl	DWG0600915-1	10/25/2006	08:53		10/25/2006	09:02
\E061487.D	Continuing Calibration Verification	DWG0600915-2	10/25/2006	09:09		10/25/2006	09:34
\E061490.D	Method Blank	DWG0600914-3	10/25/2006	10:45		10/25/2006	11:10
\E061491.D	Lab Control Sample	DWG0600914-1	10/25/2006	11:18		10/25/2006	11:43
\E061492.D	Duplicate Lab Control Sample	DWG0600914-2	10/25/2006	11:50		10/25/2006	12:15
\E061494.D	T-52-GW11	D0601625-002	10/25/2006	12:54		10/25/2006	13:19
\E061495.D	T-52-GW26	D0601625-004	10/25/2006	13:26		10/25/2006	13:51
\E061496.D	T-52-GW37	D0601625-005	10/25/2006	13:59		10/25/2006	14:24
\E061497.D	T-53-GW11	D0601625-007	10/25/2006	14:31		10/25/2006	14:56
\E061498.D	T-53-GW26	D0601625-008	10/25/2006	15:03		10/25/2006	15:28
\E061499.D	T-53-GW38	D0601625-009	10/25/2006	15:36		10/25/2006	16:01
\E061502.D	T-52-GW11	D0601625-002	10/25/2006	17:12		10/25/2006	17:37
\E061503.D	T-53-GW11	D0601625-007	10/25/2006	17:45		10/25/2006	18:10

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Extracted: 10/23/2006

Extraction Prep Log
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3510C/3520C
Analysis Method: 8270C

Extraction Lot: DWG0600914
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
T-52-GW11DL	D0601625-002	10/17/06	10/19/06	1020ml	1ml	NA	
T-52-GW11	D0601625-002	10/17/06	10/19/06	1020ml	1ml	NA	
T-52-GW26	D0601625-004	10/17/06	10/19/06	1010ml	1ml	NA	
T-52-GW37	D0601625-005	10/17/06	10/19/06	270ml	1ml	NA	
T-53-GW11DL	D0601625-007	10/17/06	10/19/06	1050ml	1ml	NA	
T-53-GW11	D0601625-007	10/17/06	10/19/06	1050ml	1ml	NA	
T-53-GW26	D0601625-008	10/17/06	10/19/06	1030ml	1ml	NA	
T-53-GW38	D0601625-009	10/17/06	10/19/06	1010ml	1ml	NA	
Method Blank	DWG0600914-3	NA	NA	1000ml	1ml	NA	
Lab Control Sample	DWG0600914-1	NA	NA	1000ml	1ml	NA	
Duplicate Lab Control Sample	DWG0600914-2	NA	NA	1000ml	1ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Initial Calibration Data

Initial Calibration - Summary Report

Calibration ID:	CAL1207	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS

SPCC and CCC Evaluations

Parameter Name	Type	SPCC Criteria	SPCC Result	CCC Criteria	CCC Result
Phenol	CCC			30	3.5
1,4-Dichlorobenzene	CCC			30	1.9
N-Nitrosodi-n-propylamine	SPCC	0.050	0.923		
2-Nitrophenol	CCC			30	9.4
2,4-Dichlorophenol	CCC			30	5.8
Hexachlorobutadiene	CCC			30	2.8
Hexachlorocyclopentadiene	SPCC	0.050	0.344		
2,4,6-Trichlorophenol	CCC			30	8.1
Acenaphthene	CCC			30	4.0
2,4-Dinitrophenol	SPCC	0.050	0.181		
4-Nitrophenol	SPCC	0.050	0.180		
N-Nitrosodiphenylamine	CCC			30	4.9
Pentachlorophenol	CCC			30	11.8
Fluoranthene	CCC			30	6.9
Di-n-octyl Phthalate	CCC			30	13.0
Benzo(a)pyrene	CCC			30	10.3

Initial Calibration - Summary Report

Calibration ID:	CAL1207	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
1,4-Dioxane	MS	AverageRF		0.660	15	1.3			OK	
N-Nitrosodimethylamine	TRG	AverageRF		0.770	15	1.4			OK	
Pyridine	TRG	AverageRF		1.638	15	2.3			OK	
PGMEA	TRG	AverageRF		1.911	15	1.4			OK	
2-Fluorophenol	SURR	AverageRF		1.074	15	3.9			NA	
Phenol-d5	SURR	AverageRF		1.435	15	3.3			NA	
Phenol	MS	AverageRF		1.541	15	3.5			OK	
Aniline	TRG	AverageRF		1.783	15	3.0			OK	
Bis(2-chloroethyl) Ether	TRG	AverageRF		1.289	15	1.2			OK	
2-Chlorophenol	MS	AverageRF		1.270	15	4.6			OK	
1,3-Dichlorobenzene	TRG	AverageRF		1.518	15	2.6			OK	
1,4-Dichlorobenzene	MS	AverageRF		1.575	15	1.9			OK	
Benzyl alcohol	TRG	AverageRF		0.776	15	6.0			OK	
1,2-Dichlorobenzene	TRG	AverageRF		1.436	15	2.7			OK	
1-Methyl-2-pyrrolidinone	TRG	AverageRF		0.809	15	5.3			OK	
2-Methylphenol	TRG	AverageRF		1.114	15	3.8			OK	
4-Methylphenol	TRG	AverageRF		1.448	15	4.4			OK	
N-Nitrosodi-n-propylamine	MS	AverageRF	0.050	0.923	15	4.7			OK	
Hexachloroethane	TRG	AverageRF		0.590	15	2.6			OK	
Nitrobenzene-d5	SURR	AverageRF		0.350	15	3.6			NA	
Nitrobenzene	TRG	AverageRF		0.387	15	2.7			OK	
Isophorone	TRG	AverageRF		0.644	15	5.1			OK	
2-Nitrophenol	TRG	AverageRF		0.184	15	9.4			OK	
2,4-Dimethylphenol	TRG	AverageRF		0.283	15	8.6			OK	
Benzoic acid	TRG	AverageRF		0.193	15	9.2			OK	
bis(2-Chloroethoxy)methane	TRG	AverageRF		0.387	15	2.7			OK	
2,4-Dichlorophenol	TRG	AverageRF		0.290	15	5.8			OK	
1,2,4-Trichlorobenzene	MS	AverageRF		0.347	15	2.0			OK	
Naphthalene	TRG	AverageRF		0.992	15	1.6			OK	
4-Chloroaniline	TRG	AverageRF		0.347	15	7.9			OK	
Hexachlorobutadiene	TRG	AverageRF		0.214	15	2.8			OK	
4-Chloro-3-methylphenol	MS	AverageRF		0.284	15	8.2			OK	
2-Methylnaphthalene	TRG	AverageRF		0.703	15	4.1			OK	
Hexachlorocyclopentadiene	TRG	AverageRF	0.050	0.344	15	11.5			OK	
2,4,6-Trichlorophenol	TRG	AverageRF		0.358	15	8.1			OK	
2,4,5-Trichlorophenol	TRG	AverageRF		0.388	15	7.3			OK	
2-Fluorobiphenyl	SURR	AverageRF		1.203	15	2.9			NA	
2-Chloronaphthalene	TRG	AverageRF		1.038	15	2.7			OK	
2-Nitroaniline	TRG	AverageRF		0.311	15	8.2			OK	
Dimethyl Phthalate	TRG	AverageRF		1.199	15	4.5			OK	
Acenaphthylene	TRG	AverageRF		1.653	15	5.2			OK	
2,6-Dinitrotoluene	TRG	AverageRF		0.273	15	9.8			OK	
3-Nitroaniline	TRG	AverageRF		0.236	15	12.5			OK	
Acenaphthene	MS	AverageRF		1.013	15	4.0			OK	
2,4-Dinitrophenol	TRG	Linear	0.050	0.181			0.99	0.9990	OK	8.81 *
4-Nitrophenol	MS	AverageRF	0.050	0.180	15	10.4			OK	
Dibenzofuran	TRG	AverageRF		1.541	15	3.3			OK	
2,4-Dinitrotoluene	MS	AverageRF		0.358	15	9.8			OK	
Fluorene	TRG	AverageRF		1.239	15	6.3			OK	
Diethyl Phthalate	TRG	AverageRF		1.210	15	4.9			OK	
4-Chlorophenyl Phenyl Ether	TRG	AverageRF		0.638	15	4.0			OK	
4-Nitroaniline	TRG	AverageRF		0.212	15	12.4			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL1207	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
2-Methyl-4,6-dinitrophenol	TRG	AverageRF		0.145	15	12.8			OK	
N-Nitrosodiphenylamine	TRG	AverageRF		0.518	15	4.9			OK	
Azobenzene	TRG	AverageRF		0.761	15	3.3			OK	
2,4,6-Tribromophenol	SURR	AverageRF		0.091	15	13.1			NA	
4-Bromophenyl Phenyl Ether	TRG	AverageRF		0.224	15	4.0			OK	
Hexachlorobenzene	TRG	AverageRF		0.232	15	3.3			OK	
Pentachlorophenol	MS	AverageRF		0.159	15	11.8			OK	
Phenanthrene	TRG	AverageRF		1.141	15	2.6			OK	
Anthracene	TRG	AverageRF		1.098	15	6.1			OK	
Carbazole	TRG	Linear		0.730			0.99	0.9905	OK	6.41 *
Di-n-butyl Phthalate	TRG	AverageRF		1.110	15	9.0			OK	
Fluoranthene	TRG	AverageRF		1.017	15	6.9			OK	
Benzidine	TRG	AverageRF		0.453	15	13.7			OK	
Pyrene	MS	AverageRF		1.697	15	5.9			OK	
Terphenyl-d14	SURR	AverageRF		1.061	15	7.3			NA	
Butyl Benzyl Phthalate	TRG	AverageRF		0.618	15	11.0			OK	
3,3'-Dichlorobenzidine	TRG	Linear		0.299			0.99	0.9968	OK	10.23 *
Benz(a)anthracene	TRG	AverageRF		1.118	15	3.1			OK	
Chrysene	TRG	AverageRF		1.046	15	1.6			OK	
Bis(2-ethylhexyl) Phthalate	TRG	AverageRF		0.754	15	9.6			OK	
Mirex	TRG	AverageRF		0.227	15	7.1			OK	
Di-n-octyl Phthalate	TRG	AverageRF		2.012	15	13.0			OK	
Benzo(b)fluoranthene	TRG	AverageRF		1.283	15	7.2			OK	
Benzo(k)fluoranthene	TRG	AverageRF		1.268	15	7.0			OK	
Benzo(a)pyrene	TRG	AverageRF		1.022	15	10.3			OK	
Indeno(1,2,3-cd)pyrene	TRG	AverageRF		0.842	15	6.9			OK	
Dibenz(a,h)anthracene	TRG	AverageRF		0.717	15	7.0			OK	
Benzo(g,h,i)perylene	TRG	AverageRF		0.697	15	5.5			OK	

Method Specified Maximum Average %RSD = 15.0 **Calculated Average %RSD =** 6.4

Initial Calibration - Detailed Report

Calibration ID:	CAL1207	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
15124	C:\MSDCHEM\1\DATA\E061011\E061331.D	10/11/2006 14:35	10/12/2006 10:37	10/12/2006 11:40
15125	C:\MSDCHEM\1\DATA\E061011\E061332.D	10/11/2006 15:07	10/12/2006 10:34	10/12/2006 11:40
15126	C:\MSDCHEM\1\DATA\E061011\E061333.D	10/11/2006 15:39	10/12/2006 10:33	10/12/2006 11:40
15127	C:\MSDCHEM\1\DATA\E061011\E061334.D	10/11/2006 16:12	10/12/2006 10:09	10/12/2006 11:40
15128	C:\MSDCHEM\1\DATA\E061011\E061335.D	10/11/2006 16:44	10/12/2006 10:07	10/12/2006 11:40
15129	C:\MSDCHEM\1\DATA\E061011\E061336.D	10/11/2006 17:17	10/12/2006 10:06	10/12/2006 11:40
15130	C:\MSDCHEM\1\DATA\E061011\E061337.D	10/11/2006 17:49	10/12/2006 10:38	10/12/2006 11:40
15131	C:\MSDCHEM\1\DATA\E061011\E061338.D	10/11/2006 18:21	10/12/2006 10:40	10/12/2006 11:40

	FileID								Mean	
Parameter Name	**15124**	**15125**	**15126**	**15127**	**15128**	**15129**	**15130**	**15131**	**RF**	**%RSD**
1,4-Dioxane	0.662	0.677	0.658	0.658	0.658	0.666	0.655	0.648	0.660	1.3
N-Nitrosodimethylamine	0.765	0.759	0.787	0.763	0.764	0.784	0.776	0.762	0.770	1.4
Pyridine	1.588	1.580	1.635	1.639	1.645	1.687	1.680	1.652	1.638	2.3
PGMEA	1.871	1.873	1.918	1.909	1.930	1.945	1.935	1.907	1.911	1.4
2-Fluorophenol	1.045	1.004	1.049	1.061	1.086	1.117	1.114	1.117	1.074	3.9
Phenol-d5	1.404	1.350	1.412	1.422	1.454	1.475	1.489	1.477	1.435	3.3
Phenol	1.433	1.535	1.503	1.538	1.551	1.586	1.600	1.585	1.541	3.5
Aniline	1.672	1.782	1.855	1.800	1.755	1.790	1.801	1.810	1.783	3.0
Bis(2-chloroethyl) Ether	1.266	1.284	1.283	1.278	1.288	1.296	1.309	1.311	1.289	1.2
2-Chlorophenol	1.157	1.234	1.234	1.276	1.302	1.323	1.321	1.315	1.270	4.6
1,3-Dichlorobenzene	1.451	1.528	1.479	1.499	1.512	1.560	1.560	1.552	1.518	2.6
1,4-Dichlorobenzene	1.614	1.587	1.524	1.555	1.544	1.591	1.586	1.595	1.575	1.9
Benzyl alcohol	0.687	0.727	0.773	0.787	0.800	0.809	0.821	0.807	0.776	6.0
1,2-Dichlorobenzene	1.378	1.395	1.418	1.419	1.451	1.476	1.476	1.474	1.436	2.7
1-Methyl-2-pyrrolidinone	0.744	0.764	0.781	0.804	0.825	0.840	0.862	0.849	0.809	5.3
2-Methylphenol	1.032	1.085	1.094	1.118	1.130	1.134	1.161	1.154	1.114	3.8
4-Methylphenol	1.347	1.397	1.396	1.443	1.465	1.508	1.516	1.511	1.448	4.4
N-Nitrosodi-n-propylamine	0.842	0.884	0.905	0.926	0.941	0.959	0.969	0.954	0.923	4.7
Hexachloroethane	0.577	0.564	0.594	0.584	0.586	0.602	0.604	0.609	0.590	2.6
Nitrobenzene-d5	0.326	0.340	0.349	0.348	0.360	0.363	0.362	0.355	0.350	3.6
Nitrobenzene	0.367	0.381	0.381	0.385	0.395	0.399	0.395	0.392	0.387	2.7
Isophorone	0.592	0.607	0.621	0.652	0.662	0.677	0.677	0.667	0.644	5.1
2-Nitrophenol	0.150	0.167	0.185	0.184	0.194	0.198	0.198	0.197	0.184	9.4
2,4-Dimethylphenol	0.252	0.250	0.271	0.278	0.292	0.304	0.306	0.312	0.283	8.6
Benzoic acid				0.164	0.188	0.201	0.205	0.207	0.193	9.2
bis(2-Chloroethoxy)methane	0.368	0.381	0.380	0.384	0.393	0.398	0.399	0.394	0.387	2.7
2,4-Dichlorophenol	0.256	0.283	0.281	0.288	0.298	0.305	0.303	0.304	0.290	5.8
1,2,4-Trichlorobenzene	0.331	0.346	0.348	0.350	0.348	0.352	0.352	0.350	0.347	2.0
Naphthalene	0.975	0.982	0.975	0.981	0.998	1.004	1.009	1.013	0.992	1.6
4-Chloroaniline	0.296	0.339	0.355	0.320	0.357	0.365	0.367	0.376	0.347	7.9
Hexachlorobutadiene	0.214	0.215	0.205	0.207	0.214	0.219	0.220	0.220	0.214	2.8
4-Chloro-3-methylphenol	0.249	0.255	0.275	0.281	0.296	0.302	0.310	0.306	0.284	8.2
2-Methylnaphthalene	0.654	0.683	0.686	0.697	0.713	0.725	0.733	0.736	0.703	4.1
Hexachlorocyclopentadiene			0.283	0.311	0.347	0.367	0.376	0.382	0.344	11.5
2,4,6-Trichlorophenol	0.305	0.331	0.351	0.355	0.364	0.381	0.387	0.388	0.358	8.1
2,4,5-Trichlorophenol	0.345	0.354	0.377	0.385	0.391	0.412	0.417	0.420	0.388	7.3
2-Fluorobiphenyl	1.158	1.184	1.187	1.178	1.191	1.222	1.244	1.260	1.203	2.9
2-Chloronaphthalene	1.013	1.015	1.015	1.020	1.030	1.058	1.078	1.077	1.038	2.7
2-Nitroaniline		0.268	0.291	0.303	0.313	0.327	0.338	0.335	0.311	8.2

Initial Calibration - Detailed Report

Calibration ID:	CAL1207	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	AverageRF

	FileID								Mean	
Parameter Name	**15124**	**15125**	**15126**	**15127**	**15128**	**15129**	**15130**	**15131**	**RF**	**%RSD**
Dimethyl Phthalate	1.099	1.156	1.191	1.188	1.214	1.236	1.262	1.249	1.199	4.5
Acenaphthylene	1.515	1.562	1.632	1.637	1.661	1.703	1.747	1.763	1.653	5.2
2,6-Dinitrotoluene	0.225	0.241	0.268	0.278	0.284	0.295	0.294	0.299	0.273	9.8
3-Nitroaniline		0.223	0.237	0.190	0.212	0.248	0.269	0.270	0.236	12.5
Acenaphthene	0.947	0.985	1.005	0.998	1.014	1.020	1.055	1.080	1.013	4.0
2,4-Dinitrophenol			0.111	0.153	0.187	0.205	0.211	0.221	0.181	23.1#
4-Nitrophenol			0.153	0.165	0.177	0.188	0.198	0.199	0.180	10.4
Dibenzofuran	1.495	1.488	1.505	1.518	1.525	1.570	1.601	1.622	1.541	3.3
2,4-Dinitrotoluene	0.301	0.317	0.342	0.359	0.375	0.380	0.392	0.397	0.358	9.8
Fluorene	1.115	1.185	1.201	1.208	1.243	1.289	1.327	1.349	1.239	6.3
Diethyl Phthalate	1.120	1.151	1.175	1.198	1.231	1.249	1.283	1.275	1.210	4.9
4-Chlorophenyl Phenyl Ether	0.598	0.620	0.624	0.630	0.634	0.654	0.665	0.676	0.638	4.0
4-Nitroaniline	0.168	0.196	0.203	0.203	0.205	0.231	0.241	0.247	0.212	12.4
2-Methyl-4,6-dinitrophenol			0.112	0.135	0.149	0.155	0.160	0.160	0.145	12.8
N-Nitrosodiphenylamine	0.501	0.539	0.524	0.523	0.472	0.502	0.526	0.555	0.518	4.9
Azobenzene	0.711	0.748	0.745	0.764	0.772	0.774	0.785	0.785	0.761	3.3
2,4,6-Tribromophenol	0.070	0.080	0.084	0.091	0.094	0.100	0.102	0.104	0.091	13.1
4-Bromophenyl Phenyl Ether	0.210	0.215	0.221	0.224	0.224	0.231	0.233	0.236	0.224	4.0
Hexachlorobenzene	0.217	0.234	0.230	0.229	0.231	0.234	0.240	0.242	0.232	3.3
Pentachlorophenol				0.130	0.153	0.164	0.172	0.178	0.159	11.8
Phenanthrene	1.111	1.134	1.119	1.109	1.134	1.154	1.177	1.186	1.141	2.6
Anthracene	0.964	1.062	1.074	1.089	1.120	1.144	1.158	1.171	1.098	6.1
Carbazole			0.816	0.612	0.558	0.727	0.808	0.862	0.730	16.7#
Di-n-butyl Phthalate	0.921	1.010	1.079	1.129	1.195	1.183	1.190	1.172	1.110	9.0
Fluoranthene	0.906	0.932	1.006	0.993	1.061	1.084	1.084	1.072	1.017	6.9
Benzidine		0.482	0.581	0.426	0.407	0.406	0.425	0.444	0.453	13.7
Pyrene	1.600	1.578	1.674	1.675	1.654	1.714	1.811	1.872	1.697	5.9
Terphenyl-d14	0.963	0.978	1.023	1.055	1.049	1.086	1.146	1.186	1.061	7.3
Butyl Benzyl Phthalate	0.488	0.542	0.630	0.626	0.658	0.655	0.678	0.670	0.618	11.0
3,3'-Dichlorobenzidine			0.275	0.220	0.260	0.337	0.354	0.350	0.299	18.5#
Benz(a)anthracene	1.099	1.068	1.077	1.119	1.122	1.150	1.156	1.154	1.118	3.1
Chrysene	1.015	1.044	1.032	1.044	1.041	1.065	1.065	1.059	1.046	1.6
Bis(2-ethylhexyl) Phthalate	0.641	0.655	0.742	0.753	0.823	0.819	0.816	0.787	0.754	9.6
Mirex	0.232	0.191	0.221	0.224	0.239	0.239	0.237	0.231	0.227	7.1
Di-n-octyl Phthalate			1.691	1.735	1.949	2.145	2.254	2.301	2.012	13.0
Benzo(b)fluoranthene	1.189	1.183	1.210	1.243	1.275	1.372	1.361	1.428	1.283	7.2
Benzo(k)fluoranthene	1.098	1.169	1.295	1.294	1.285	1.318	1.342	1.345	1.268	7.0
Benzo(a)pyrene	0.872	0.871	0.976	1.025	1.084	1.106	1.110	1.130	1.022	10.3
Indeno(1,2,3-cd)pyrene	0.811	0.792	0.750	0.842	0.936	0.872	0.890	0.842	0.842	6.9
Dibenz(a,h)anthracene	0.665	0.670	0.656	0.725	0.793	0.750	0.764	0.717	0.717	7.0
Benzo(g,h,i)perylene	0.678	0.667	0.655	0.697	0.775	0.708	0.723	0.674	0.697	5.5

 # RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

Alternate Calibration Evaluation Summary

Maximum Allowable Average %RSD =	15.0
Calculated Average %RSD =	6.4

Initial Calibration - Detailed Report

Calibration ID:	CAL1207	**Instrument ID:**	MSE
Method ID:	MJ360	**Column Name:**	MS
		Calibration Fit:	Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
15124	C:\MSDCHEM\1\DATA\E061011\E061331.D	10/11/2006 14:35	10/12/2006 10:37	10/12/2006 11:40
15125	C:\MSDCHEM\1\DATA\E061011\E061332.D	10/11/2006 15:07	10/12/2006 10:34	10/12/2006 11:40
15126	C:\MSDCHEM\1\DATA\E061011\E061333.D	10/11/2006 15:39	10/12/2006 10:33	10/12/2006 11:40
15127	C:\MSDCHEM\1\DATA\E061011\E061334.D	10/11/2006 16:12	10/12/2006 10:09	10/12/2006 11:40
15128	C:\MSDCHEM\1\DATA\E061011\E061335.D	10/11/2006 16:44	10/12/2006 10:07	10/12/2006 11:40
15129	C:\MSDCHEM\1\DATA\E061011\E061336.D	10/11/2006 17:17	10/12/2006 10:06	10/12/2006 11:40
15130	C:\MSDCHEM\1\DATA\E061011\E061337.D	10/11/2006 17:49	10/12/2006 10:38	10/12/2006 11:40
15131	C:\MSDCHEM\1\DATA\E061011\E061338.D	10/11/2006 18:21	10/12/2006 10:40	10/12/2006 11:40

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
2,4-Dinitrophenol		0.226	-0.039	0.9990	0.181
Carbazole		0.873	-0.099	0.9905	0.730
3,3'-Dichlorobenzidine		0.364	-0.066	0.9968	0.299

Second Source Calibration Verification Summary

CalibrationID: CAL1207 **Units:** ug/L

Method ID: MJ360 **Column:** MS

DataFile Location: C:\MSDCHEM\1\DATA\E061011\E061339.D

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
1,4-Dioxane	15132	AverageRF	30	0.660	0.643	-2.6	50.00	48.7	
N-Nitrosodimethylamine	15132	AverageRF	30	0.770	0.765	-0.6	50.00	49.7	
Pyridine	15132	AverageRF	30	1.638	1.640	0.1	50.00	50.0	
PGMEA	15132	AverageRF	30	1.911	1.889	-1.2	50.00	49.4	
Phenol	15132	AverageRF	30	1.541	1.554	0.8	50.00	50.4	
Aniline	15132	AverageRF	30	1.783	1.717	-3.7	50.00	48.1	
Bis(2-chloroethyl) Ether	15132	AverageRF	30	1.289	1.277	-1.0	50.00	49.5	
2-Chlorophenol	15132	AverageRF	30	1.270	1.305	2.7	50.00	51.4	
1,3-Dichlorobenzene	15132	AverageRF	30	1.518	1.530	0.8	50.00	50.4	
1,4-Dichlorobenzene	15132	AverageRF	30	1.575	1.571	-0.2	50.00	49.9	
Benzyl alcohol	15132	AverageRF	30	0.776	0.793	2.2	50.00	51.1	
1,2-Dichlorobenzene	15132	AverageRF	30	1.436	1.458	1.5	50.00	50.8	
1-Methyl-2-pyrrolidinone	15132	AverageRF	30	0.809	0.830	2.7	50.00	51.3	
2-Methylphenol	15132	AverageRF	30	1.114	1.106	-0.7	50.00	49.6	
4-Methylphenol	15132	AverageRF	30	1.448	1.454	0.4	50.00	50.2	
N-Nitrosodi-n-propylamine	15132	AverageRF	30	0.923	0.949	2.9	50.00	51.4	
Hexachloroethane	15132	AverageRF	30	0.590	0.610	3.3	50.00	51.7	
Nitrobenzene	15132	AverageRF	30	0.387	0.396	2.4	50.00	51.2	
Isophorone	15132	AverageRF	30	0.644	0.674	4.5	50.00	52.3	
2-Nitrophenol	15132	AverageRF	30	0.184	0.194	5.5	50.00	52.8	
2,4-Dimethylphenol	15132	AverageRF	30	0.283	0.290	2.3	50.00	51.1	
Benzoic acid	15132	AverageRF	30	0.193	0.200	3.4	50.00	51.7	
bis(2-Chloroethoxy)methane	15132	AverageRF	30	0.387	0.395	2.0	50.00	51.0	
2,4-Dichlorophenol	15132	AverageRF	30	0.290	0.291	0.4	50.00	50.2	
1,2,4-Trichlorobenzene	15132	AverageRF	30	0.347	0.347	0.0	50.00	50.0	
Naphthalene	15132	AverageRF	30	0.992	0.982	-1.0	50.00	49.5	
4-Chloroaniline	15132	AverageRF	30	0.347	0.350	0.9	50.00	50.4	
Hexachlorobutadiene	15132	AverageRF	30	0.214	0.218	1.8	50.00	50.9	
4-Chloro-3-methylphenol	15132	AverageRF	30	0.284	0.302	6.4	50.00	53.2	
2-Methylnaphthalene	15132	AverageRF	30	0.703	0.701	-0.3	50.00	49.8	
Hexachlorocyclopentadiene	15132	AverageRF	30	0.344	0.357	3.7	50.00	51.9	
2,4,6-Trichlorophenol	15132	AverageRF	30	0.358	0.374	4.5	50.00	52.3	
2,4,5-Trichlorophenol	15132	AverageRF	30	0.388	0.405	4.5	50.00	52.2	
2-Chloronaphthalene	15132	AverageRF	30	1.038	1.057	1.8	50.00	50.9	
2-Nitroaniline	15132	AverageRF	30	0.311	0.329	5.9	50.00	52.9	
Dimethyl Phthalate	15132	AverageRF	30	1.199	1.248	4.1	50.00	52.0	
Acenaphthylene	15132	AverageRF	30	1.653	1.663	0.6	50.00	50.3	
2,6-Dinitrotoluene	15132	AverageRF	30	0.273	0.295	8.0	50.00	54.0	
3-Nitroaniline	15132	AverageRF	30	0.236	0.247	4.7	50.00	52.3	
Acenaphthene	15132	AverageRF	30	1.013	1.014	0.1	50.00	50.0	
2,4-Dinitrophenol	15132	Linear	30				100.00	98.0	-2.0
4-Nitrophenol	15132	AverageRF	30	0.180	0.186	3.1	100.00	103.1	
Dibenzofuran	15132	AverageRF	30	1.541	1.546	0.3	50.00	50.2	
2,4-Dinitrotoluene	15132	AverageRF	30	0.358	0.391	9.2	50.00	54.6	
Fluorene	15132	AverageRF	30	1.239	1.260	1.6	50.00	50.8	
Diethyl Phthalate	15132	AverageRF	30	1.210	1.258	4.0	50.00	52.0	
4-Chlorophenyl Phenyl Ether	15132	AverageRF	30	0.638	0.655	2.7	50.00	51.3	

Second Source Calibration Verification Summary

CalibrationID: CAL1207

Method ID: MJ360

DataFile Location: C:\MSDCHEM\1\DATA\E061011\E061339.D

Units: ug/L

Column: MS

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
4-Nitroaniline	15132	AverageRF	30	0.212	0.230	8.6	50.00	54.3	
2-Methyl-4,6-dinitrophenol	15132	AverageRF	30	0.145	0.162	11.5	100.00	111.5	
N-Nitrosodiphenylamine	15132	AverageRF	30	0.518	0.488	-5.7	50.00	47.1	
Azobenzene	15132	AverageRF	30	0.761	0.787	3.4	50.00	51.7	
4-Bromophenyl Phenyl Ether	15132	AverageRF	30	0.224	0.235	4.8	50.00	52.4	
Hexachlorobenzene	15132	AverageRF	30	0.232	0.238	2.7	50.00	51.3	
Pentachlorophenol	15132	AverageRF	30	0.159	0.161	1.3	100.00	101.3	
Phenanthrene	15132	AverageRF	30	1.141	1.135	-0.5	50.00	49.8	
Anthracene	15132	AverageRF	30	1.098	1.129	2.9	50.00	51.4	
Carbazole	15132	Linear	30				50.00	46.6	-6.7
Di-n-butyl Phthalate	15132	AverageRF	30	1.110	1.173	5.7	50.00	52.9	
Fluoranthene	15132	AverageRF	30	1.017	1.000	-1.7	50.00	49.2	
Benzidine	15132	AverageRF	30	0.453	0.251	-44.5 *	100.00	55.5	
Pyrene	15132	AverageRF	30	1.697	1.820	7.2	50.00	53.6	
Butyl Benzyl Phthalate	15132	AverageRF	30	0.618	0.675	9.2	50.00	54.6	
3,3'-Dichlorobenzidine	15132	Linear	30				100.00	91.2	-8.8
Benz(a)anthracene	15132	AverageRF	30	1.118	1.177	5.3	50.00	52.7	
Chrysene	15132	AverageRF	30	1.046	1.034	-1.1	50.00	49.4	
Bis(2-ethylhexyl) Phthalate	15132	AverageRF	30	0.754	0.810	7.4	50.00	53.7	
Mirex	15132	AverageRF	30	0.227	0.236	3.8	25.00	26.0	
Di-n-octyl Phthalate	15132	AverageRF	30	2.012	2.210	9.8	50.00	54.9	
Benzo(b)fluoranthene	15132	AverageRF	30	1.283	1.406	9.6	50.00	54.8	
Benzo(k)fluoranthene	15132	AverageRF	30	1.268	1.364	7.5	50.00	53.8	
Benzo(a)pyrene	15132	AverageRF	30	1.022	1.093	6.9	50.00	53.5	
Indeno(1,2,3-cd)pyrene	15132	AverageRF	30	0.842	0.812	-3.5	50.00	48.2	
Dibenz(a,h)anthracene	15132	AverageRF	30	0.717	0.665	-7.2	50.00	46.4	
Benzo(g,h,i)perylene	15132	AverageRF	30	0.697	0.631	-9.5	50.00	45.3	

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	0.0
Calculated Average %D =	4.3

1 compound out of 74 failed max individual %D criteria.

Injection Log

Directory: C:\MSDCHEM\1\DATA\E061011

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E061328.d	1.	STUN1011	TUNE;;;;;;;23-MS-...	11 Oct 2006 13:13
2	2	E061329.d	1.	SSTD025		11 Oct 2006 13:29
3	3	E061330.d	1.	IB 8270 10/11/06		11 Oct 2006 14:02
4	4	E061331.d	1.	1PPM ICAL 8270 10/11/06	23-MS-71-2	11 Oct 2006 14:35
5	5	E061332.d	1.	2PPM ICAL 8270 10/11/06	23-MS-71-3	11 Oct 2006 15:07
6	6	E061333.d	1.	4PPM ICAL 8270 10/11/06	23-MS-71-4	11 Oct 2006 15:39
7	7	E061334.d	1.	10PPM ICAL 8270 10/11/06	23-MS-71-5	11 Oct 2006 16:12
8	8	E061335.d	1.	25PPM ICAL 8270 10/11/06	23-MS-71-6	11 Oct 2006 16:44
9	9	E061336.d	1.	50PPM ICAL 8270 10/11/06	23-MS-71-7	11 Oct 2006 17:17
10	10	E061337.d	1.	70PPM ICAL 8270 10/11/06	23-MS-71-8	11 Oct 2006 17:49
11	11	E061338.d	1.	100PPM ICAL 8270 10/11/06	23-MS-71-9	11 Oct 2006 18:21
12	12	E061339.d	1.	50PPM ICV/CCV 8270 10/11/06	23-MS-71-10	11 Oct 2006 18:54
13	13	E061340.d	1.	MB 8270W 10/11/06		11 Oct 2006 19:26
14	14	E061341.d	1.	LCS 8270W 10/11/06		11 Oct 2006 19:59
15	15	E061342.d	1.	LCSD 8270W 10/11/06		11 Oct 2006 20:31
16	16	E061343.d	1.	D0601532-002 8270W 10/11/06		11 Oct 2006 21:03
17	17	E061344.d	1.	MB 8270S 10/11/06		11 Oct 2006 21:36
18	18	E061345.d	1.	LCS 8270S 10/11/06		11 Oct 2006 22:08
19	19	E061346.d	1.	D0601532-001 8270S 10/11/06		11 Oct 2006 22:40
20	20	E061347.d	1.	D0601532-003 8270S 10/11/06		11 Oct 2006 23:13
21	21	E061348.d	1.	D0601558-001 8270S 10/11/06		11 Oct 2006 23:45
22	22	E061349.d	1.	D0601558-001MS 8270S 10/11/06		12 Oct 2006 00:17
23	23	E061350.d	1.	D0601558-001MSD 8270S 10/11/06		12 Oct 2006 00:49
24	24	E061351.d	1.	MB 625 10/6/06		12 Oct 2006 01:22
25	25	E061352.d	1.	LCS 625 10/6/06		12 Oct 2006 01:54
26	26	E061353.d	1.	D0601507-002 625 10/6/06		12 Oct 2006 02:26
27	27	E061354.d	1.	D0601512-001 625 10/6/06		12 Oct 2006 02:58
28	28	E061355.d	1.	D0601512-003 625 10/6/06		12 Oct 2006 03:31

Calibration Status Report MSE

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 11:21:10 2006
Response via : Initial Calibration

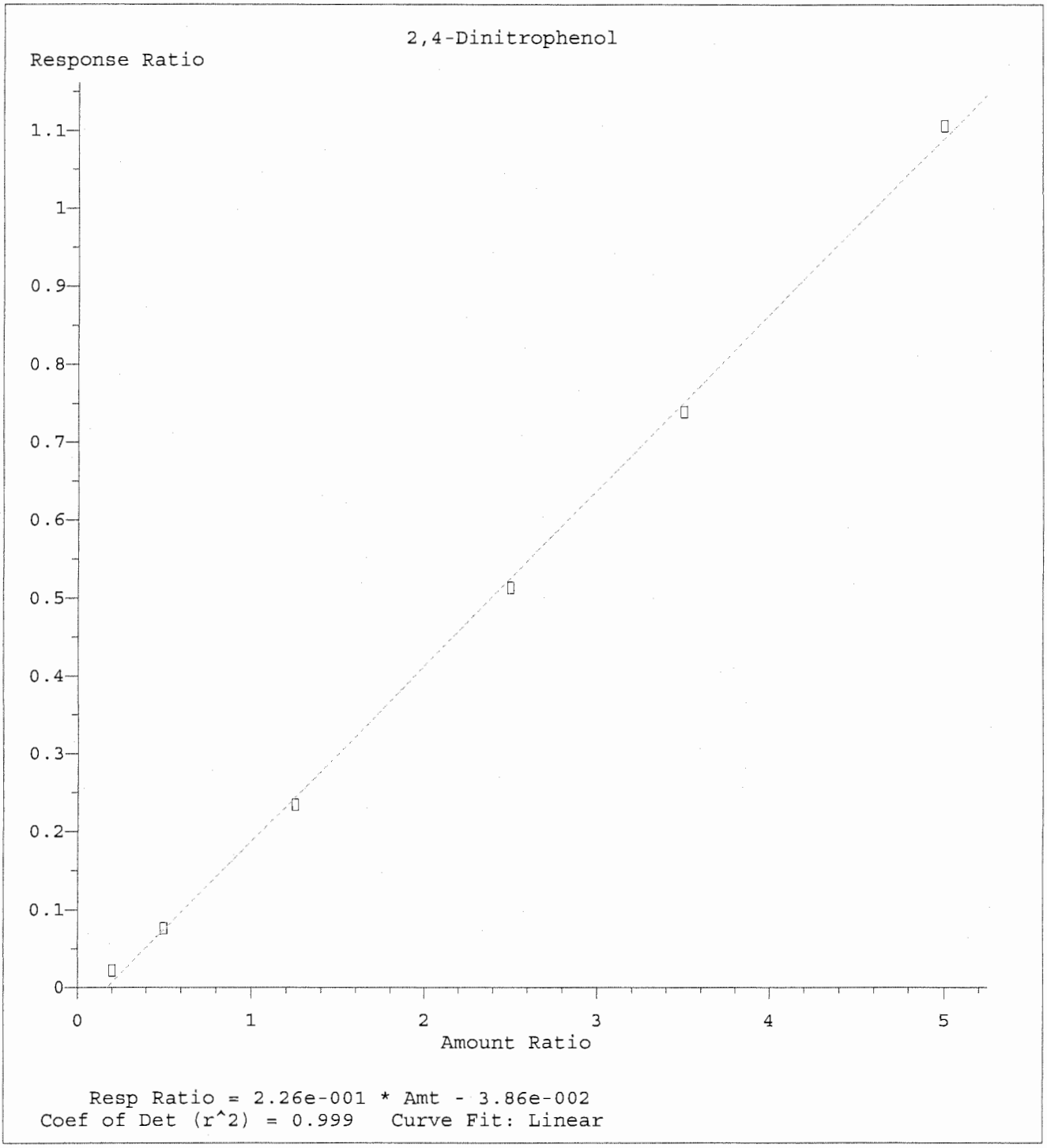
#	ID	Conc	ISTD Conc	Path\File
1	1	1	40	C:\MSDCHEM\1\DATA\E061011\E061331.D
2	2	2	40	C:\MSDCHEM\1\DATA\E061011\E061332.D
3	3	4	40	C:\MSDCHEM\1\DATA\E061011\E061333.D
4	4	10	40	C:\MSDCHEM\1\DATA\E061011\E061334.D
5	5	25	40	C:\MSDCHEM\1\DATA\E061011\E061335.D
6	6	50	40	C:\MSDCHEM\1\DATA\E061011\E061336.D
7	7	70	40	C:\MSDCHEM\1\DATA\E061011\E061337.D
8	8	100	40	C:\MSDCHEM\1\DATA\E061011\E061338.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Oct 12 10:48 2006	Oct 12 10:37 2006	11 Oct 2006 2:35 pm
2	2	Oct 12 10:48 2006	Oct 12 10:34 2006	11 Oct 2006 3:07 pm
3	3	Oct 12 10:49 2006	Oct 12 10:33 2006	11 Oct 2006 3:39 pm
4	4	Oct 12 10:49 2006	Oct 12 10:09 2006	11 Oct 2006 4:12 pm
5	5	Oct 12 10:49 2006	Oct 12 10:07 2006	11 Oct 2006 4:44 pm
6	6	Oct 12 10:50 2006	Oct 12 10:06 2006	11 Oct 2006 5:17 pm
7	7	Oct 12 10:51 2006	Oct 12 10:38 2006	11 Oct 2006 5:49 pm
8	8	Oct 12 10:51 2006	Oct 12 10:40 2006	11 Oct 2006 6:21 pm

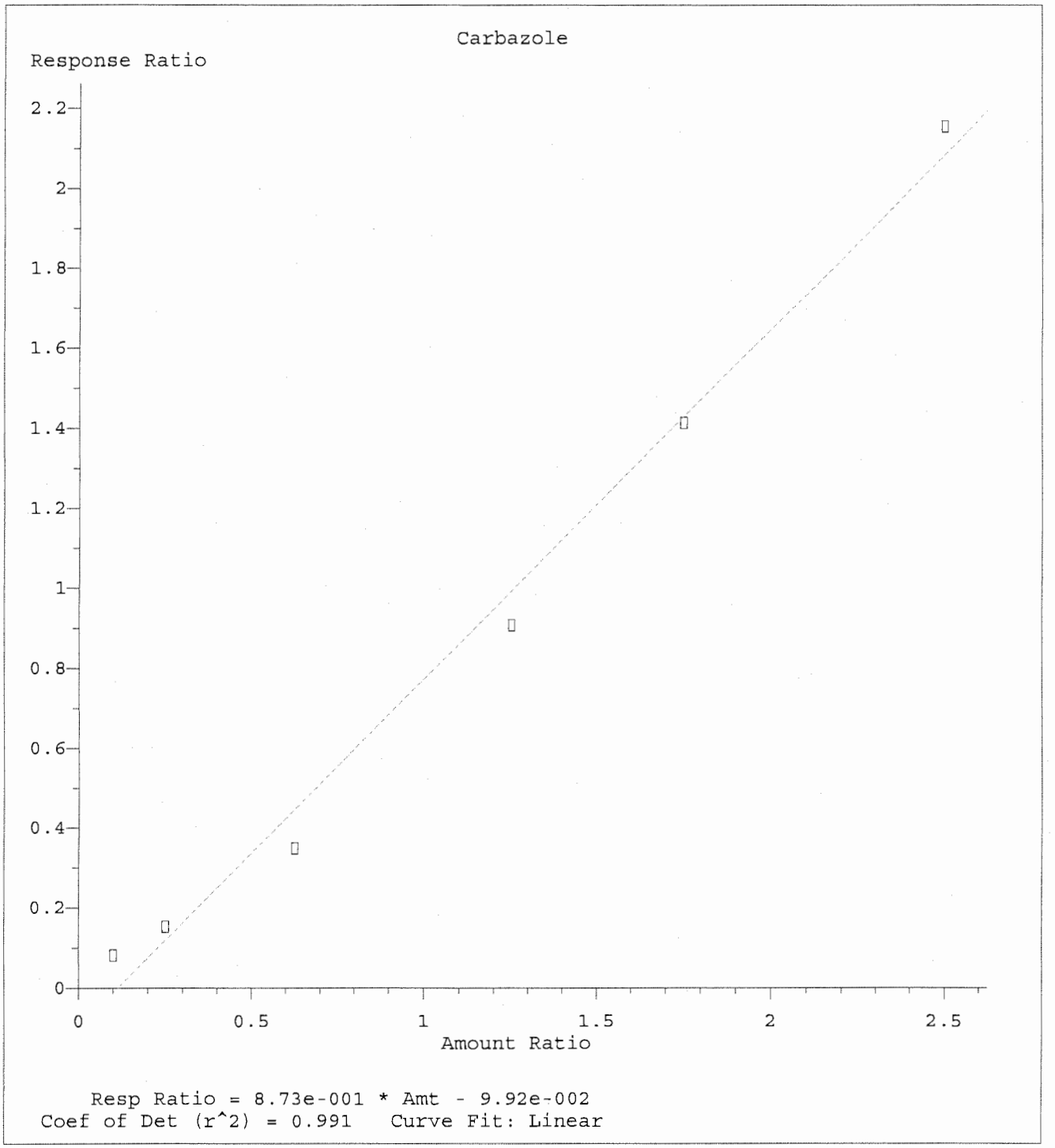
BA061011.M Thu Oct 12 11:21:37 2006

10/12/06

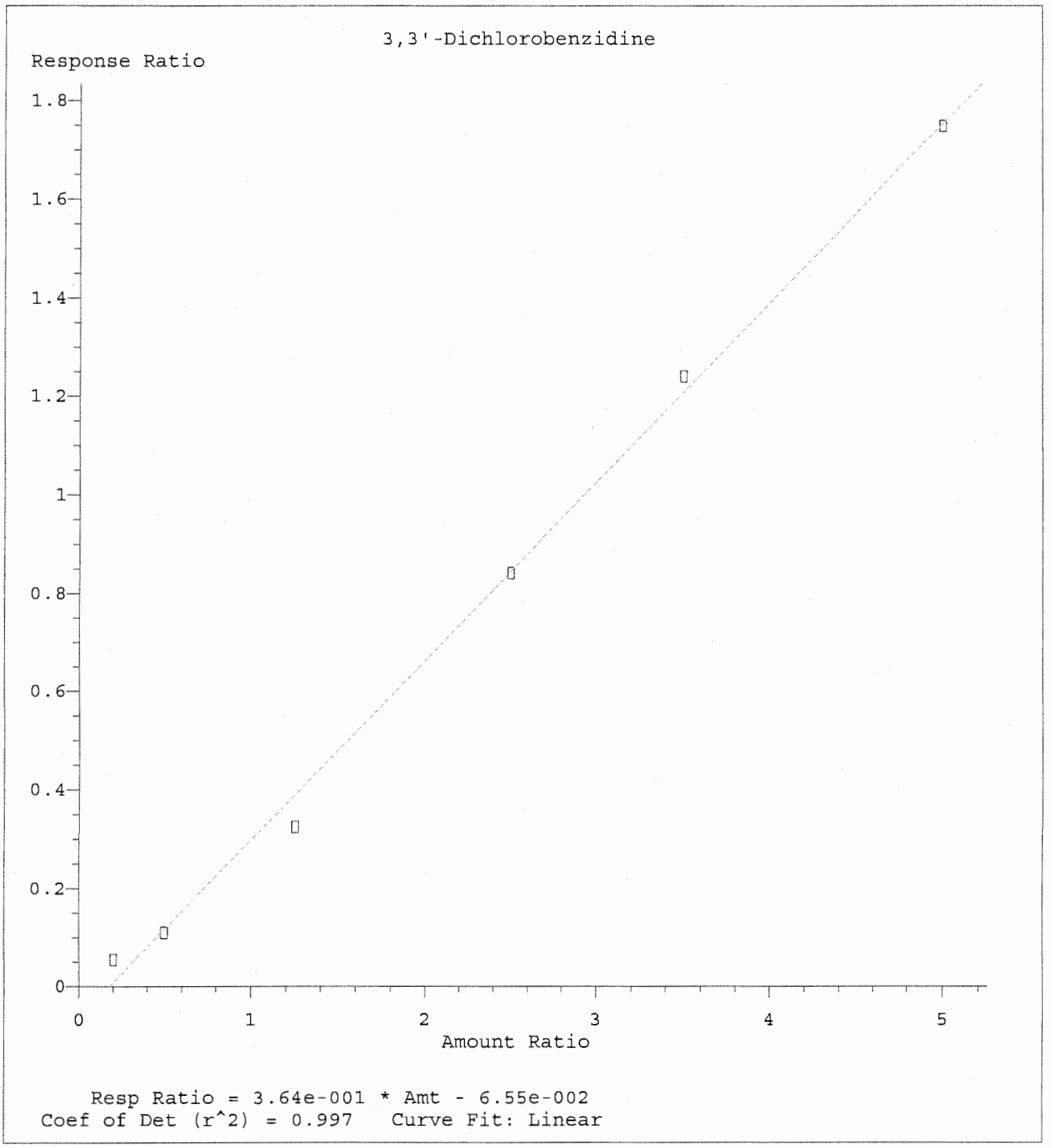
10/17/06



Method Name: C:\MSDCHEM\1\METHODS\BA061011.M
Calibration Table Last Updated: Thu Oct 12 11:03:51 2006



Method Name: C:\MSDCHEM\1\METHODS\BA061011.M
Calibration Table Last Updated: Thu Oct 12 11:18:41 2006



Method Name: C:\MSDCHEM\1\METHODS\BA061011.M
Calibration Table Last Updated: Thu Oct 12 11:19:55 2006

DATA ANALYSIS PARAMETERS

Method Name: C:\MSDCHEM\1\METHODS\BA061011.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: Meth Default

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search	Minimum Quality
C:\Database\NIST98.L	0

Integration Events: Meth Default

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

MS09 EPA Method 625/8270C
Calibration Last Updated: Thu Oct 12 11:21:10 2006

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

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1) 1,4-Dichlorobenzene-d4 (ISTD TR)

Ret. Time 6.03 min., Extract & Integrate from 5.73 to 6.33 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	152.00			*** METH DEFAULT ***
Q1	150.00	156.00	20.0	*** METH DEFAULT ***
Q2	115.00	62.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	160154
2		40.000	147602
3		40.000	149272
4		40.000	156964
5		40.000	163012
6		40.000	150260
7		40.000	139984
8		40.000	132370

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF
---

2) 1,4-Dioxane ( )

Ret. Time 2.98 min., Extract & Integrate from 2.68 to 3.28 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	88.10			*** METH DEFAULT ***
Q1	58.00	77.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2650
2		2.000	4996
3		4.000	9819
4		10.000	25814
5		25.000	67026
6		50.000	125099
7		70.000	160482
8		100.000	214527

Qualifier Peak Analysis ON
Curve Fit: Avg. RF
---

3) N-Nitrosodimethylamine ( )

Ret. Time 3.33 min., Extract & Integrate from 3.03 to 3.63 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	42.10			*** METH DEFAULT ***
Q1	74.10	105.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3063
2		2.000	5602
3		4.000	11742
4		10.000	29936

5	25.000	77805
6	50.000	147274
7	70.000	190144
8	100.000	252169

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

4) Pyridine ( )

Ret. Time 3.35 min., Extract & Integrate from 3.05 to 3.65 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	79.10			*** METH DEFAULT ***
Q1	52.00	77.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	6359
2		2.000	11660
3		4.000	24404
4		10.000	64330
5		25.000	167555
6		50.000	316948
7		70.000	411664
8		100.000	546757

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

5) PGMEA ( )

Ret. Time 4.54 min., Extract & Integrate from 4.24 to 4.84 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	43.00			*** METH DEFAULT ***
Q1	58.10	10.80	20.0	*** METH DEFAULT ***
Q2	72.10	19.30	20.0	*** METH DEFAULT ***
Q3	87.10	7.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	7491
2		2.000	13824
3		4.000	28633
4		10.000	74893
5		25.000	196653
6		50.000	365358
7		70.000	473978
8		100.000	630985

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

6) 2-Fluorophenol ( )

Ret. Time 4.62 min., Extract & Integrate from 4.32 to 4.92 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	112.00			*** METH DEFAULT ***
Q1	64.00	56.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	4186
2		2.000	7412
3		4.000	15659
4		10.000	41636
5		25.000	110647

6	50.000	209855
7	70.000	272995
8	100.000	369758

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

7) Phenol-d5 ( )

Ret. Time 5.59 min., Extract & Integrate from 5.29 to 5.89 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	99.10			*** METH DEFAULT ***
Q1	71.10	36.20	20.0	*** METH DEFAULT ***
Q2	42.10	21.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5623
2		2.000	9962
3		4.000	21080
4		10.000	55790
5		25.000	148117
6		50.000	277051
7		70.000	364874
8		100.000	488915

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

8) Phenol ( )

Ret. Time 5.61 min., Extract & Integrate from 5.31 to 5.91 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	94.10			*** METH DEFAULT ***
Q1	66.10	41.70	20.0	*** METH DEFAULT ***
Q2	65.10	30.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5738
2		2.000	11330
3		4.000	22430
4		10.000	60347
5		25.000	157996
6		50.000	297874
7		70.000	392033
8		100.000	524661

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

9) Aniline ( )

Ret. Time 5.68 min., Extract & Integrate from 5.38 to 5.98 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	93.10			*** METH DEFAULT ***
Q1	66.10	37.70	20.0	*** METH DEFAULT ***
Q2	65.10	20.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	6693
2		2.000	13148
3		4.000	27696
4		10.000	70628
5		25.000	178844

6	50.000	336236
7	70.000	441188
8	100.000	599058

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

10) Bis(2-chloroethyl)ether ( )

Ret. Time 5.73 min., Extract & Integrate from 5.43 to 6.03 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 93.00			*** METH DEFAULT ***
Q1 63.00	74.70	20.0	*** METH DEFAULT ***
Q2 95.00	32.90	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	5067
2	2.000	9476
3	4.000	19155
4	10.000	50138
5	25.000	131202
6	50.000	243495
7	70.000	320727
8	100.000	433689

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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11) 2-Chlorophenol ( )

Ret. Time 5.81 min., Extract & Integrate from 5.51 to 6.11 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 128.00			*** METH DEFAULT ***
Q1 64.00	47.60	20.0	*** METH DEFAULT ***
Q2 130.00	33.30	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	4634
2	2.000	9104
3	4.000	18422
4	10.000	50088
5	25.000	132646
6	50.000	248453
7	70.000	323566
8	100.000	435072

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

12) 1,3-Dichlorobenzene ( )

Ret. Time 5.99 min., Extract & Integrate from 5.69 to 6.29 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	65.00	20.0	*** METH DEFAULT ***
Q2 111.00	40.40	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	5808
2	2.000	11278
3	4.000	22080
4	10.000	58830
5	25.000	154093

6	50.000	293073
7	70.000	382177
8	100.000	513638

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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13) 1,4-Dichlorobenzene ( )

Ret. Time 6.05 min., Extract & Integrate from 5.75 to 6.35 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	65.00	20.0	*** METH DEFAULT ***
Q2 111.00	39.50	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	6463
2	2.000	11712
3	4.000	22746
4	10.000	61015
5	25.000	157294
6	50.000	298844
7	70.000	388622
8	100.000	527845

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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14) Benzyl alcohol ( )

Ret. Time 6.20 min., Extract & Integrate from 5.90 to 6.50 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 108.10			*** METH DEFAULT ***
Q1 79.10	132.40	20.0	*** METH DEFAULT ***
Q2 77.00	85.20	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	2750
2	2.000	5368
3	4.000	11544
4	10.000	30878
5	25.000	81539
6	50.000	151915
7	70.000	201043
8	100.000	266930

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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15) 1,2-Dichlorobenzene ( )

Ret. Time 6.28 min., Extract & Integrate from 5.98 to 6.58 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 146.00			*** METH DEFAULT ***
Q1 148.00	65.10	20.0	*** METH DEFAULT ***
Q2 111.00	42.50	20.0	*** METH DEFAULT ***

Lvl ID	Conc (mg/L)	Response
1	1.000	5517
2	2.000	10292
3	4.000	21168
4	10.000	55677
5	25.000	147874

6	50.000	277210
7	70.000	361490
8	100.000	487722

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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16) N-Methyl pyrrolidine (NMP) ( )

Ret. Time 6.31 min., Extract & Integrate from 6.01 to 6.61 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 99.10			*** METH DEFAULT ***
Q1 98.10	70.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2979
2		2.000	5640
3		4.000	11655
4		10.000	31555
5		25.000	84062
6		50.000	157821
7		70.000	211125
8		100.000	280990

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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17) 2-Methylphenol ( )

Ret. Time 6.35 min., Extract & Integrate from 6.05 to 6.65 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 108.10			*** METH DEFAULT ***
Q1 107.10	88.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	4131
2		2.000	8008
3		4.000	16332
4		10.000	43879
5		25.000	115106
6		50.000	213045
7		70.000	284376
8		100.000	381924

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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18) Bis(2-chloroisopropyl)ether ( )

Ret. Time 6.38 min., Extract & Integrate from 6.08 to 6.68 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 45.10			*** METH DEFAULT ***
Q1 77.00	12.80	20.0	*** METH DEFAULT ***
Q2 121.10	25.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	7191
2		2.000	13348
3		4.000	26546
4		10.000	70680
5		25.000	180596
6		50.000	339705
7		70.000	442146

8	100.000	590162

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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19) 4-Methylphenol ( )

Ret. Time 6.52 min., Extract & Integrate from 6.22 to 6.82 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 107.10			*** METH DEFAULT ***
Q1 108.10	80.00	20.0	*** METH DEFAULT ***
Q2 77.10	32.00	20.0	*** METH DEFAULT ***
Q3 79.10	23.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5393
2		2.000	10310
3		4.000	20838
4		10.000	56612
5		25.000	149273
6		50.000	283304
7		70.000	371361
8		100.000	499981

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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20) N-Nitrosodi-n-propylamine ( )

Ret. Time 6.56 min., Extract & Integrate from 6.26 to 6.66 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 70.10			*** METH DEFAULT ***
Q1 43.10	103.50	20.0	*** METH DEFAULT ***
Q2 130.10	30.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3373
2		2.000	6523
3		4.000	13507
4		10.000	36348
5		25.000	95879
6		50.000	180167
7		70.000	237274
8		100.000	315834

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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21) Hexachloroethane ( )

Ret. Time 6.66 min., Extract & Integrate from 6.36 to 6.96 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 116.90			*** METH DEFAULT ***
Q1 200.90	91.60	20.0	*** METH DEFAULT ***
Q2 198.90	57.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2310
2		2.000	4159
3		4.000	8862
4		10.000	22924
5		25.000	59725
6		50.000	113137

7	70.000	148056
8	100.000	201640

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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22) Naphthalene-d8 (ISTD TR)

Ret. Time 7.61 min., Extract & Integrate from 7.31 to 7.91 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 136.10			*** METH DEFAULT ***
Q1 68.00	5.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	613677
2		40.000	560532
3		40.000	564071
4		40.000	599262
5		40.000	616843
6		40.000	572301
7		40.000	537827
8		40.000	508189

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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23) Nitrobenzene-d5 ( )

Ret. Time 6.74 min., Extract & Integrate from 6.44 to 7.04 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 82.10			*** METH DEFAULT ***
Q1 128.10	45.80	20.0	*** METH DEFAULT ***
Q2 54.10	54.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5002
2		2.000	9530
3		4.000	19671
4		10.000	52065
5		25.000	138643
6		50.000	259902
7		70.000	340915
8		100.000	450411

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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24) Nitrobenzene ( )

Ret. Time 6.76 min., Extract & Integrate from 6.46 to 7.06 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 77.00			*** METH DEFAULT ***
Q1 123.00	49.00	20.0	*** METH DEFAULT ***
Q2 51.00	54.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5629
2		2.000	10678
3		4.000	21489
4		10.000	57636
5		25.000	152163
6		50.000	285603
7		70.000	371344

8	100.000	497815

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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25) Isophorone ( )

Ret. Time 7.04 min., Extract & Integrate from 6.74 to 7.34 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 82.10			*** METH DEFAULT ***
Q1 138.10	19.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	9090
2		2.000	17014
3		4.000	35014
4		10.000	97705
5		25.000	255186
6		50.000	484629
7		70.000	636850
8		100.000	847926

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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26) 2-Nitrophenol ( )

Ret. Time 7.15 min., Extract & Integrate from 6.85 to 7.45 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 139.00			*** METH DEFAULT ***
Q1 65.00	56.40	20.0	*** METH DEFAULT ***
Q2 109.00	32.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2296
2		2.000	4694
3		4.000	10423
4		10.000	27626
5		25.000	74774
6		50.000	141382
7		70.000	186323
8		100.000	249855

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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27) 2,4-Dimethylphenol ( )

Ret. Time 7.17 min., Extract & Integrate from 6.87 to 7.47 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 122.10			*** METH DEFAULT ***
Q1 107.10	118.90	20.0	*** METH DEFAULT ***
Q2 121.10	57.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3861
2		2.000	7014
3		4.000	15277
4		10.000	41717
5		25.000	112419
6		50.000	217674
7		70.000	287793
8		100.000	396656

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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28) Benzoic acid ( )

Ret. Time 7.32 min., Extract & Integrate from 7.02 to 7.62 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 122.10			*** METH DEFAULT ***
Q1 105.10	129.20	20.0	*** METH DEFAULT ***
Q2 77.10	94.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		not used for this compound	
4		10.000	24590
5		25.000	72480
6		50.000	143618
7		70.000	193147
8		100.000	262708

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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29) Bis(2-chloroethoxy)methane ( )

Ret. Time 7.30 min., Extract & Integrate from 7.00 to 7.60 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 93.00			*** METH DEFAULT ***
Q1 63.00	71.50	20.0	*** METH DEFAULT ***
Q2 123.00	16.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5651
2		2.000	10685
3		4.000	21453
4		10.000	57517
5		25.000	151369
6		50.000	284884
7		70.000	375411
8		100.000	500122

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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30) 2,4-Dichlorophenol ( )

Ret. Time 7.44 min., Extract & Integrate from 7.14 to 7.74 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 162.00			*** METH DEFAULT ***
Q1 164.00	63.00	20.0	*** METH DEFAULT ***
Q2 98.00	36.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3924
2		2.000	7941
3		4.000	15840
4		10.000	43191
5		25.000	115023
6		50.000	218326
7		70.000	285546
8		100.000	385738

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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31) 1,2,4-Trichlorobenzene ( )

Ret. Time 7.55 min., Extract & Integrate from 7.25 to 7.85 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	179.90			*** METH DEFAULT ***
Q1	181.90	96.00	20.0	*** METH DEFAULT ***
Q2	145.00	31.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5074
2		2.000	9709
3		4.000	19633
4		10.000	52508
5		25.000	134107
6		50.000	251556
7		70.000	331597
8		100.000	444611

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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32) Naphthalene ( )

Ret. Time 7.63 min., Extract & Integrate from 7.33 to 7.93 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	128.10			*** METH DEFAULT ***
Q1	129.10	11.20	20.0	*** METH DEFAULT ***
Q2	127.10	13.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	14956
2		2.000	27525
3		4.000	54980
4		10.000	147037
5		25.000	384633
6		50.000	718321
7		70.000	949683
8		100.000	1287160

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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33) 4-Chloroaniline ( )

Ret. Time 7.71 min., Extract & Integrate from 7.41 to 8.01 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	127.00			*** METH DEFAULT ***
Q1	129.00	32.30	20.0	*** METH DEFAULT ***
Q2	65.00	31.10	20.0	*** METH DEFAULT ***
Q3	92.10	17.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	4536
2		2.000	9497
3		4.000	20050
4		10.000	47920
5		25.000	137741
6		50.000	260983
7		70.000	345468

8	100.000	478128

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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34) Hexachlorobutadiene ( )

Ret. Time 7.85 min., Extract & Integrate from 7.55 to 8.15 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 224.90			*** METH DEFAULT ***
Q1 222.90	63.50	20.0	*** METH DEFAULT ***
Q2 226.80	64.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3286
2		2.000	6026
3		4.000	11553
4		10.000	31022
5		25.000	82478
6		50.000	156994
7		70.000	207482
8		100.000	279984

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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35) 4-Chloro-3-methylphenol ( )

Ret. Time 8.29 min., Extract & Integrate from 7.99 to 8.59 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 107.10			*** METH DEFAULT ***
Q1 142.00	83.20	20.0	*** METH DEFAULT ***
Q2 144.00	27.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3827
2		2.000	7147
3		4.000	15489
4		10.000	42024
5		25.000	113986
6		50.000	216263
7		70.000	291780
8		100.000	388910

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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36) 2-Methylnaphthalene ( )

Ret. Time 8.49 min., Extract & Integrate from 8.19 to 8.79 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 142.10			*** METH DEFAULT ***
Q1 141.10	86.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	10026
2		2.000	19143
3		4.000	38683
4		10.000	104457
5		25.000	274853
6		50.000	518304
7		70.000	689713
8		100.000	935221

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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37) Acenaphthene-d10 (ISTD TR)

Ret. Time 9.82 min., Extract & Integrate from 9.52 to 10.12 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	164.20			*** METH DEFAULT ***
Q1	162.10	91.10	20.0	*** METH DEFAULT ***
Q2	160.10	39.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	384655
2		40.000	352526
3		40.000	355452
4		40.000	379892
5		40.000	396841
6		40.000	364280
7		40.000	340769
8		40.000	318490

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

38) Hexachlorocyclopentadiene ( )

Ret. Time 8.77 min., Extract & Integrate from 8.47 to 9.07 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	236.90			*** METH DEFAULT ***
Q1	234.90	60.60	20.0	*** METH DEFAULT ***
Q2	271.80	12.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	10050
4		10.000	29511
5		25.000	86096
6		50.000	167293
7		70.000	224126
8		100.000	304283

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

39) 2,4,6-Trichlorophenol ( )

Ret. Time 8.87 min., Extract & Integrate from 8.57 to 9.17 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	95.60	20.0	*** METH DEFAULT ***
Q2	199.90	30.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2929
2		2.000	5837
3		4.000	12483
4		10.000	33755
5		25.000	90298
6		50.000	173299
7		70.000	230670
8		100.000	308782

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

40) 2,4,5-Trichlorophenol ( )

Ret. Time 8.92 min., Extract & Integrate from 8.62 to 9.22 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	95.00	20.0	*** METH DEFAULT ***
Q2	97.00	52.00	20.0	*** METH DEFAULT ***
Q3	132.00	28.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3313
2		2.000	6231
3		4.000	13402
4		10.000	36552
5		25.000	97089
6		50.000	187379
7		70.000	248775
8		100.000	334526

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

41) 2-Fluorobiphenyl ( )

Ret. Time 8.96 min., Extract & Integrate from 8.66 to 9.26 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	172.10			*** METH DEFAULT ***
Q1	171.10	34.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	11131
2		2.000	20869
3		4.000	42187
4		10.000	111860
5		25.000	295446
6		50.000	556223
7		70.000	742068
8		100.000	1003557

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

42) 2-Chloronaphthalene ( )

Ret. Time 9.10 min., Extract & Integrate from 8.80 to 9.40 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	162.00			*** METH DEFAULT ***
Q1	164.00	33.30	20.0	*** METH DEFAULT ***
Q2	127.10	38.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	9746
2		2.000	17882
3		4.000	36095
4		10.000	96890
5		25.000	255473
6		50.000	481889
7		70.000	642599
8		100.000	857617

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

43) 2-Nitroaniline ( )

Ret. Time 9.26 min., Extract & Integrate from 8.96 to 9.56 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 65.00			*** METH DEFAULT ***
Q1 92.10	65.30	20.0	*** METH DEFAULT ***
Q2 138.10	104.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	4723
3		4.000	10330
4		10.000	28817
5		25.000	77637
6		50.000	148858
7		70.000	201335
8		100.000	266377

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

44) Dimethylphthalate ( )

Ret. Time 9.51 min., Extract & Integrate from 9.21 to 9.81 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 163.10			*** METH DEFAULT ***
Q1 77.00	21.70	20.0	*** METH DEFAULT ***
Q2 194.10	6.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	10573
2		2.000	20368
3		4.000	42319
4		10.000	112795
5		25.000	301128
6		50.000	562949
7		70.000	752434
8		100.000	994579

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

45) Acenaphthylene ( )

Ret. Time 9.64 min., Extract & Integrate from 9.34 to 9.94 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 152.10			*** METH DEFAULT ***
Q1 151.10	19.80	20.0	*** METH DEFAULT ***
Q2 153.10	12.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	14568
2		2.000	27541
3		4.000	58016
4		10.000	155512
5		25.000	411961
6		50.000	775570
7		70.000	1042076
8		100.000	1403962

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

46) 2,6-Dinitrotoluene ( )

Ret. Time 9.60 min., Extract & Integrate from 9.30 to 9.80 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	165.00			*** METH DEFAULT ***
Q1	63.00	58.50	20.0	*** METH DEFAULT ***
Q2	89.10	54.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2168
2		2.000	4254
3		4.000	9527
4		10.000	26402
5		25.000	70456
6		50.000	134323
7		70.000	175393
8		100.000	237999

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

47) 3-Nitroaniline ( )

Ret. Time 9.78 min., Extract & Integrate from 9.48 to 10.08 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	138.10			*** METH DEFAULT ***
Q1	92.10	105.30	20.0	*** METH DEFAULT ***
Q2	108.10	9.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		2.000	3935
3		4.000	8441
4		10.000	18052
5		25.000	52665
6		50.000	112753
7		70.000	160307
8		100.000	214643

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

48) Acenaphthene ( )

Ret. Time 9.87 min., Extract & Integrate from 9.57 to 10.17 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	154.10			*** METH DEFAULT ***
Q1	153.10	103.80	20.0	*** METH DEFAULT ***
Q2	152.10	49.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	9106
2		2.000	17362
3		4.000	35719
4		10.000	94763
5		25.000	251555
6		50.000	464629
7		70.000	629075
8		100.000	859982

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

49) 2,4-Dinitrophenol ( )

Ret. Time 9.90 min., Extract & Integrate from 9.80 to 10.20 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 184.00			*** METH DEFAULT ***
Q1 63.00	65.90	20.0	*** METH DEFAULT ***
Q2 154.00	56.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		8.000	7909
4		20.000	28989
5		50.000	92939
6		100.000	186959
7		140.000	251750
8		200.000	352271

Qualifier Peak Analysis ON
Curve Fit: Linear

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50) 4-Nitrophenol ( )

Ret. Time 9.96 min., Extract & Integrate from 9.86 to 10.26 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 109.10			*** METH DEFAULT ***
Q1 65.10	124.90	20.0	*** METH DEFAULT ***
Q2 139.10	132.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		8.000	10878
4		20.000	31308
5		50.000	88019
6		100.000	171152
7		140.000	236684
8		200.000	317489

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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51) Dibenzofuran ( )

Ret. Time 10.06 min., Extract & Integrate from 9.76 to 10.36 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 168.10			*** METH DEFAULT ***
Q1 139.10	36.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	14376
2		2.000	26231
3		4.000	53505
4		10.000	144187
5		25.000	378259
6		50.000	714987
7		70.000	954965
8		100.000	1291175

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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52) 2,4-Dinitrotoluene ( )

Ret. Time 10.09 min., Extract & Integrate from 9.89 to 10.39 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	165.10			*** METH DEFAULT ***
Q1	63.00	46.90	20.0	*** METH DEFAULT ***
Q2	89.00	70.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	2891
2		2.000	5595
3		4.000	12155
4		10.000	34063
5		25.000	93046
6		50.000	173056
7		70.000	234035
8		100.000	315818

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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53) Fluorene ( )

Ret. Time 10.49 min., Extract & Integrate from 10.19 to 10.79 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	166.10			*** METH DEFAULT ***
Q1	165.10	91.40	20.0	*** METH DEFAULT ***
Q2	167.10	13.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	10722
2		2.000	20886
3		4.000	42683
4		10.000	114691
5		25.000	308175
6		50.000	586891
7		70.000	791465
8		100.000	1074108

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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54) Diethylphthalate ( )

Ret. Time 10.39 min., Extract & Integrate from 10.09 to 10.69 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	177.10	21.80	20.0	*** METH DEFAULT ***
Q2	150.10	12.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	10774
2		2.000	20296
3		4.000	41770
4		10.000	113791
5		25.000	305414
6		50.000	568567
7		70.000	764923
8		100.000	1015198

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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55) 4-Chlorophenyl phenyl ether ( )

Ret. Time 10.47 min., Extract & Integrate from 10.17 to 10.77 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	204.00			*** METH DEFAULT ***
Q1	206.00	32.10	20.0	*** METH DEFAULT ***
Q2	141.10	63.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5752
2		2.000	10932
3		4.000	22176
4		10.000	59805
5		25.000	157138
6		50.000	298022
7		70.000	396326
8		100.000	538543

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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56) 4-Nitroaniline ( )

Ret. Time 10.55 min., Extract & Integrate from 10.25 to 10.85 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	138.10			*** METH DEFAULT ***
Q1	65.00	107.20	20.0	*** METH DEFAULT ***
Q2	108.10	85.60	20.0	*** METH DEFAULT ***
Q3	92.10	49.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	1617
2		2.000	3452
3		4.000	7199
4		10.000	19270
5		25.000	50755
6		50.000	105377
7		70.000	143728
8		100.000	196636

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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57) Phenanthrene-d10 (ISTD TR)

Ret. Time 11.66 min., Extract & Integrate from 11.36 to 11.96 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	188.20			*** METH DEFAULT ***
Q1	94.00	9.80	20.0	*** METH DEFAULT ***
Q2	80.00	10.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	608666
2		40.000	554715
3		40.000	567798
4		40.000	603069
5		40.000	639466
6		40.000	593161
7		40.000	560407
8		40.000	520720

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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58) 2-Methyl-4,6-dinitrophenol ( )

Ret. Time 10.60 min., Extract & Integrate from 10.30 to 10.90 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 198.00			*** METH DEFAULT ***
Q1 51.00	50.70	20.0	*** METH DEFAULT ***
Q2 105.00	43.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		8.000	12754
4		20.000	40732
5		50.000	119227
6		100.000	229129
7		140.000	313812
8		200.000	417159

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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59) N-Nitrosodiphenylamine ( )

Ret. Time 10.63 min., Extract & Integrate from 10.33 to 10.93 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 169.10			*** METH DEFAULT ***
Q1 168.10	63.70	20.0	*** METH DEFAULT ***
Q2 167.10	34.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	7624
2		2.000	14937
3		4.000	29740
4		10.000	78812
5		25.000	188635
6		50.000	372210
7		70.000	515778
8		100.000	722806

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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60) Azobenzene ( )

Ret. Time 10.67 min., Extract & Integrate from 10.37 to 10.97 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt 77.00			*** METH DEFAULT ***
Q1 51.00	33.00	20.0	*** METH DEFAULT ***
Q2 182.10	29.20	20.0	*** METH DEFAULT ***
Q3 105.10	16.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	10822
2		2.000	20736
3		4.000	42316
4		10.000	115209
5		25.000	308544
6		50.000	573748
7		70.000	770049

8 100.000 1022477

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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61) 2,4,6-Tribromophenol ( )

Ret. Time 10.81 min., Extract & Integrate from 10.51 to 11.11 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	329.80			*** METH DEFAULT ***
Q1	331.80	96.60	20.0	*** METH DEFAULT ***
Q2	141.00	47.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	1064
2		2.000	2220
3		4.000	4783
4		10.000	13793
5		25.000	37756
6		50.000	74272
7		70.000	99976
8		100.000	135070

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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62) 4-Bromophenyl phenyl ether ( )

Ret. Time 11.08 min., Extract & Integrate from 10.78 to 11.38 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	248.00			*** METH DEFAULT ***
Q1	250.00	98.90	20.0	*** METH DEFAULT ***
Q2	141.10	88.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3193
2		2.000	5950
3		4.000	12559
4		10.000	33728
5		25.000	89596
6		50.000	171357
7		70.000	228325
8		100.000	307308

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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63) Hexachlorobenzene ( )

Ret. Time 11.28 min., Extract & Integrate from 10.98 to 11.58 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	283.80			*** METH DEFAULT ***
Q1	141.90	45.60	20.0	*** METH DEFAULT ***
Q2	248.90	31.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3300
2		2.000	6483
3		4.000	13067
4		10.000	34529
5		25.000	92192
6		50.000	173799
7		70.000	235053

8	100.000	314900

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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64) Pentachlorophenol ( )

Ret. Time 11.49 min., Extract & Integrate from 11.19 to 11.79 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	265.90			*** METH DEFAULT ***
Q1	263.90	62.20	20.0	*** METH DEFAULT ***
Q2	267.90	62.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		not used for this compound	
4		20.000	39266
5		50.000	122110
6		100.000	242877
7		140.000	337171
8		200.000	463659

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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65) Phenanthrene ( )

Ret. Time 11.69 min., Extract & Integrate from 11.39 to 11.99 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	178.10			*** METH DEFAULT ***
Q1	179.10	15.50	20.0	*** METH DEFAULT ***
Q2	176.10	19.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	16906
2		2.000	31463
3		4.000	63511
4		10.000	167252
5		25.000	453288
6		50.000	855521
7		70.000	1154025
8		100.000	1543924

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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66) Anthracene ( )

Ret. Time 11.75 min., Extract & Integrate from 11.45 to 12.05 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	178.10			*** METH DEFAULT ***
Q1	176.10	17.80	20.0	*** METH DEFAULT ***
Q2	179.10	15.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	14674
2		2.000	29468
3		4.000	61001
4		10.000	164198
5		25.000	447531
6		50.000	848078
7		70.000	1135411

8 100.000 1523950

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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67) Carbazole ( )

Ret. Time 11.96 min., Extract & Integrate from 11.66 to 12.26 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	167.10			*** METH DEFAULT ***
Q1	166.10	21.30	20.0	*** METH DEFAULT ***
Q2	139.10	12.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	46330
4		10.000	92245
5		25.000	223039
6		50.000	538684
7		70.000	791995
8		100.000	1121877

Qualifier Peak Analysis ON
Curve Fit: Linear

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68) Di-n-butylphthalate ( )

Ret. Time 12.48 min., Extract & Integrate from 12.18 to 12.78 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	150.10	9.40	20.0	*** METH DEFAULT ***
Q2	104.00	5.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	14010
2		2.000	28013
3		4.000	61293
4		10.000	170291
5		25.000	477665
6		50.000	877365
7		70.000	1167519
8		100.000	1526164

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

69) Fluoranthene ( )

Ret. Time 13.44 min., Extract & Integrate from 13.14 to 13.74 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	202.10			*** METH DEFAULT ***
Q1	101.00	11.00	20.0	*** METH DEFAULT ***
Q2	203.10	17.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	13790
2		2.000	25844
3		4.000	57134
4		10.000	149768
5		25.000	424240
6		50.000	803371
7		70.000	1063018

8 100.000 1396111

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

70) Chrysene-d12 (ISTD TR)

Ret. Time 16.08 min., Extract & Integrate from 15.78 to 16.38 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	240.20			*** METH DEFAULT ***
Q1	120.10	12.60	20.0	*** METH DEFAULT ***
Q2	236.20	24.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	355266
2		40.000	333966
3		40.000	342797
4		40.000	348425
5		40.000	399556
6		40.000	362337
7		40.000	323981
8		40.000	284978

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

---

71) Benzidine ( )

Ret. Time 13.63 min., Extract & Integrate from 13.33 to 13.93 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	184.10			*** METH DEFAULT ***
Q1	92.10	7.90	20.0	*** METH DEFAULT ***
Q2	185.10	14.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		4.000	16113
3		8.000	39800
4		20.000	74225
5		50.000	203124
6		100.000	367538
7		140.000	481678
8		200.000	633342

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

72) Pyrene ( )

Ret. Time 13.82 min., Extract & Integrate from 13.52 to 14.12 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	202.10			*** METH DEFAULT ***
Q1	200.10	20.30	20.0	*** METH DEFAULT ***
Q2	203.10	17.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	14213
2		2.000	26343
3		4.000	57386
4		10.000	145902
5		25.000	412960
6		50.000	776345
7		70.000	1026796

8 100.000 1333999

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

73) Terphenyl-d14 ( )

Ret. Time 14.07 min., Extract & Integrate from 13.77 to 14.37 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	244.20			*** METH DEFAULT ***
Q1	122.10	12.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	8556
2		2.000	16325
3		4.000	35079
4		10.000	91867
5		25.000	261978
6		50.000	491955
7		70.000	649709
8		100.000	845188

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

74) Butylbenzylphthalate ( )

Ret. Time 15.02 min., Extract & Integrate from 14.72 to 15.32 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	91.10	70.00	20.0	*** METH DEFAULT ***
Q2	206.10	21.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	4330
2		2.000	9048
3		4.000	21602
4		10.000	54512
5		25.000	164406
6		50.000	296760
7		70.000	384337
8		100.000	477088

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

75) 3,3'-Dichlorobenzidine ( )

Ret. Time 16.02 min., Extract & Integrate from 15.72 to 16.32 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	254.10	64.70	20.0	*** METH DEFAULT ***
Q2	126.10	13.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		8.000	18878
4		20.000	38399
5		50.000	129875
6		100.000	304962
7		140.000	401735
8		200.000	498303

Qualifier Peak Analysis ON
Curve Fit: Linear

---

76) Benz(a)anthracene ( )

Ret. Time 16.04 min., Extract & Integrate from 15.74 to 16.34 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	229.10	19.80	20.0	*** METH DEFAULT ***
Q2	226.10	25.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	9758
2		2.000	17834
3		4.000	36914
4		10.000	97465
5		25.000	280251
6		50.000	520638
7		70.000	655482
8		100.000	822261

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

77) Chrysene ( )

Ret. Time 16.13 min., Extract & Integrate from 15.83 to 16.43 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	226.10	28.40	20.0	*** METH DEFAULT ***
Q2	229.10	20.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	9018
2		2.000	17428
3		4.000	35378
4		10.000	90955
5		25.000	260074
6		50.000	482191
7		70.000	603580
8		100.000	754390

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

78) Bis(2-ethylhexyl)phthalate ( )

Ret. Time 16.22 min., Extract & Integrate from 15.92 to 16.52 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	167.10	30.60	20.0	*** METH DEFAULT ***
Q2	279.20	7.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5694
2		2.000	10930
3		4.000	25437
4		10.000	65559
5		25.000	205540
6		50.000	370877
7		70.000	462906
8		100.000	560683

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

79) Mirex ( )

Ret. Time 16.91 min., Extract & Integrate from 16.61 to 17.21 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	271.80			*** METH DEFAULT ***
Q1	236.90	63.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		0.500	1031
2		1.000	1591
3		2.000	3790
4		5.000	9766
5		12.500	29824
6		25.000	54161
7		35.000	67298
8		50.000	82463

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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80) Perylene-d12 (ISTD)

Ret. Time 18.98 min., Extract & Integrate from 18.68 to 19.28 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	264.20			*** METH DEFAULT ***
Q1	260.20	21.60	20.0	*** METH DEFAULT ***
Q2	265.20	21.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		40.000	196219
2		40.000	188444
3		40.000	182206
4		40.000	187523
5		40.000	231654
6		40.000	192975
7		40.000	163476
8		40.000	132253

Qualifier Peak Analysis ON ISTD conc: 40.000 mg/L
Curve Fit: Avg. RF

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81) Di-n-octylphthalate ( )

Ret. Time 17.47 min., Extract & Integrate from 17.17 to 17.77 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	150.00	9.60	20.0	*** METH DEFAULT ***
Q2	167.10	1.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		not used for this compound	
2		not used for this compound	
3		4.000	30809
4		10.000	81315
5		25.000	282151
6		50.000	517388
7		70.000	644721
8		100.000	760852

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

82) Benzo(b)fluoranthene ( )

Ret. Time 18.22 min., Extract & Integrate from 17.92 to 18.52 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	22.40	20.0	*** METH DEFAULT ***
Q2	125.10	13.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5834
2		2.000	11150
3		4.000	22056
4		10.000	58266
5		25.000	184587
6		50.000	330833
7		70.000	389217
8		100.000	472111

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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83) Benzo(k)fluoranthene ( )

Ret. Time 18.26 min., Extract & Integrate from 17.96 to 18.56 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	22.20	20.0	*** METH DEFAULT ***
Q2	125.10	11.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	5385
2		2.000	11011
3		4.000	23591
4		10.000	60681
5		25.000	186081
6		50.000	318001
7		70.000	383938
8		100.000	444782

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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84) Benzo(a)pyrene ( )

Ret. Time 18.86 min., Extract & Integrate from 18.56 to 19.16 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	22.80	20.0	*** METH DEFAULT ***
Q2	125.10	14.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	4277
2		2.000	8209
3		4.000	17792
4		10.000	48038
5		25.000	157009
6		50.000	266677
7		70.000	317459
8		100.000	373462

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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85) Indeno(1,2,3-c,d)pyrene ( )

Ret. Time 21.64 min., Extract & Integrate from 21.34 to 21.94 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.10	23.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3978
2		2.000	7461
3		4.000	13670
4		10.000	39484
5		25.000	135561
6		50.000	210305
7		70.000	254535
8		100.000	278316

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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86) Dibenz(a,h)anthracene ( )

Ret. Time 21.68 min., Extract & Integrate from 21.38 to 21.98 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	278.10			*** METH DEFAULT ***
Q1	139.10	20.10	20.0	*** METH DEFAULT ***
Q2	279.10	23.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3260
2		2.000	6311
3		4.000	11947
4		10.000	33979
5		25.000	114790
6		50.000	180935
7		70.000	218486
8		100.000	237176

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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87) Benzo(g,h,i)perylene ( )

Ret. Time 22.41 min., Extract & Integrate from 22.11 to 22.71 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.10	24.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (mg/L)	Response
1		1.000	3327
2		2.000	6289
3		4.000	11939
4		10.000	32684
5		25.000	112194
6		50.000	170700
7		70.000	206933
8		100.000	222988

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Thu Oct 12 11:21:41 2006

Response Factor Report MSE

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 11:21:10 2006
Response via : Initial Calibration

Calibration Files
1 =E061331.D 2 =E061332.D 3 =E061333.D
4 =E061334.D 5 =E061335.D 6 =E061336.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------	ISTD	----------					
2)	N	1,4-Dioxane	0.662	0.677	0.658	0.658	0.658	0.666	0.660	1.28
3)	T	N-Nitrosodimeth	0.765	0.759	0.787	0.763	0.764	0.784	0.770	1.40
4)	T	Pyridine	1.588	1.580	1.635	1.639	1.645	1.687	1.638	2.35
5)	N	PGMEA	1.871	1.873	1.918	1.909	1.930	1.945	1.911	1.43
6)	S	2-Fluorophenol	1.045	1.004	1.049	1.061	1.086	1.117	1.074	3.85
7)	S	Phenol-d5	1.404	1.350	1.412	1.422	1.454	1.475	1.435	3.29
8)	CMT	Phenol	1.433	1.535	1.503	1.538	1.551	1.586	1.541	3.53#
9)	T	Aniline	1.672	1.782	1.855	1.800	1.755	1.790	1.783	2.98
10)	T	Bis(2-chloroeth	1.266	1.284	1.283	1.278	1.288	1.296	1.289	1.20
11)	MT	2-Chlorophenol	1.157	1.234	1.234	1.276	1.302	1.323	1.270	4.58
12)	T	1,3-Dichloroben	1.451	1.528	1.479	1.499	1.512	1.560	1.518	2.64
13)	CMT	1,4-Dichloroben	1.614	1.587	1.524	1.555	1.544	1.591	1.575	1.93#
14)	T	Benzyl alcohol	0.687	0.727	0.773	0.787	0.800	0.809	0.776	5.97
15)	T	1,2-Dichloroben	1.378	1.395	1.418	1.419	1.451	1.476	1.436	2.70
16)	N	N-Methyl pyrrol	0.744	0.764	0.781	0.804	0.825	0.840	0.809	5.26
17)	T	2-Methylphenol	1.032	1.085	1.094	1.118	1.130	1.134	1.114	3.79
18)	T	Bis(2-chloroiso	1.796	1.809	1.778	1.801	1.773	1.809	1.794	0.79
19)	T	4-Methylphenol	1.347	1.397	1.396	1.443	1.465	1.508	1.448	4.37
20)	PMT	N-Nitrosodi-n-p	0.842	0.884	0.905	0.926	0.941	0.959	0.923	4.68
21)	T	Hexachloroethan	0.577	0.564	0.594	0.584	0.586	0.602	0.590	2.61
22)	I	Naphthalene-d8	----------	ISTD	----------					
23)	S	Nitrobenzene-d5	0.326	0.340	0.349	0.348	0.360	0.363	0.350	3.61
24)	T	Nitrobenzene	0.367	0.381	0.381	0.385	0.395	0.399	0.387	2.71
25)	T	Isophorone	0.592	0.607	0.621	0.652	0.662	0.677	0.644	5.14
26)	CT	2-Nitrophenol	0.150	0.167	0.185	0.184	0.194	0.198	0.184	9.39#
27)	T	2,4-Dimethylphe	0.252	0.250	0.271	0.278	0.292	0.304	0.283	8.57
28)	T	Benzoic acid				0.164	0.188	0.201	0.193	9.19
29)	T	Bis(2-chloroeth	0.368	0.381	0.380	0.384	0.393	0.398	0.387	2.72
30)	CT	2,4-Dichlorophe	0.256	0.283	0.281	0.288	0.298	0.305	0.290	5.79#
31)	MT	1,2,4-Trichloro	0.331	0.346	0.348	0.350	0.348	0.352	0.347	2.00
32)	T	Naphthalene	0.975	0.982	0.975	0.981	0.998	1.004	0.992	1.58
33)	T	4-Chloroaniline	0.296	0.339	0.355	0.320	0.357	0.365	0.347	7.85
34)	CT	Hexachlorobutad	0.214	0.215	0.205	0.207	0.214	0.219	0.214	2.75#
35)	CMT	4-Chloro-3-meth	0.249	0.255	0.275	0.281	0.296	0.302	0.284	8.17#
36)	T	2-Methylnaphtha	0.654	0.683	0.686	0.697	0.713	0.725	0.703	4.07
37)	I	Acenaphthene-d10	----------	ISTD	----------					
38)	PT	Hexachlorocyclo			0.283	0.311	0.347	0.367	0.344	11.53
39)	CT	2,4,6-Trichloro	0.305	0.331	0.351	0.355	0.364	0.381	0.358	8.11#
40)	T	2,4,5-Trichloro	0.345	0.354	0.377	0.385	0.391	0.412	0.388	7.34
41)	S	2-Fluorobipheny	1.158	1.184	1.187	1.178	1.191	1.222	1.203	2.95
42)	T	2-Chloronaphtha	1.013	1.015	1.015	1.020	1.030	1.058	1.038	2.71
43)	T	2-Nitroaniline		0.268	0.291	0.303	0.313	0.327	0.311	8.15
44)	T	Dimethylphthala	1.099	1.156	1.191	1.188	1.214	1.236	1.199	4.46
45)	T	Acenaphthylene	1.515	1.562	1.632	1.637	1.661	1.703	1.653	5.19
46)	T	2,6-Dinitrotolu	0.225	0.241	0.268	0.278	0.284	0.295	0.273	9.82
47)	T	3-Nitroaniline		0.223	0.237	0.190	0.212	0.248	0.236	12.46
48)	CMT	Acenaphthene	0.947	0.985	1.005	0.998	1.014	1.020	1.013	4.05#
49)	PT	2,4-Dinitrophen			0.111	0.153	0.187	0.205	0.181	23.15
50)	PMT	4-Nitrophenol			0.153	0.165	0.177	0.188	0.180	10.36

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSE

Method : C:\MSDCHEM\1\METHODS\BA061011.M (RTE Integrator)
Title : MS09 EPA Method 625/8270C
Last Update : Thu Oct 12 11:21:10 2006
Response via : Initial Calibration

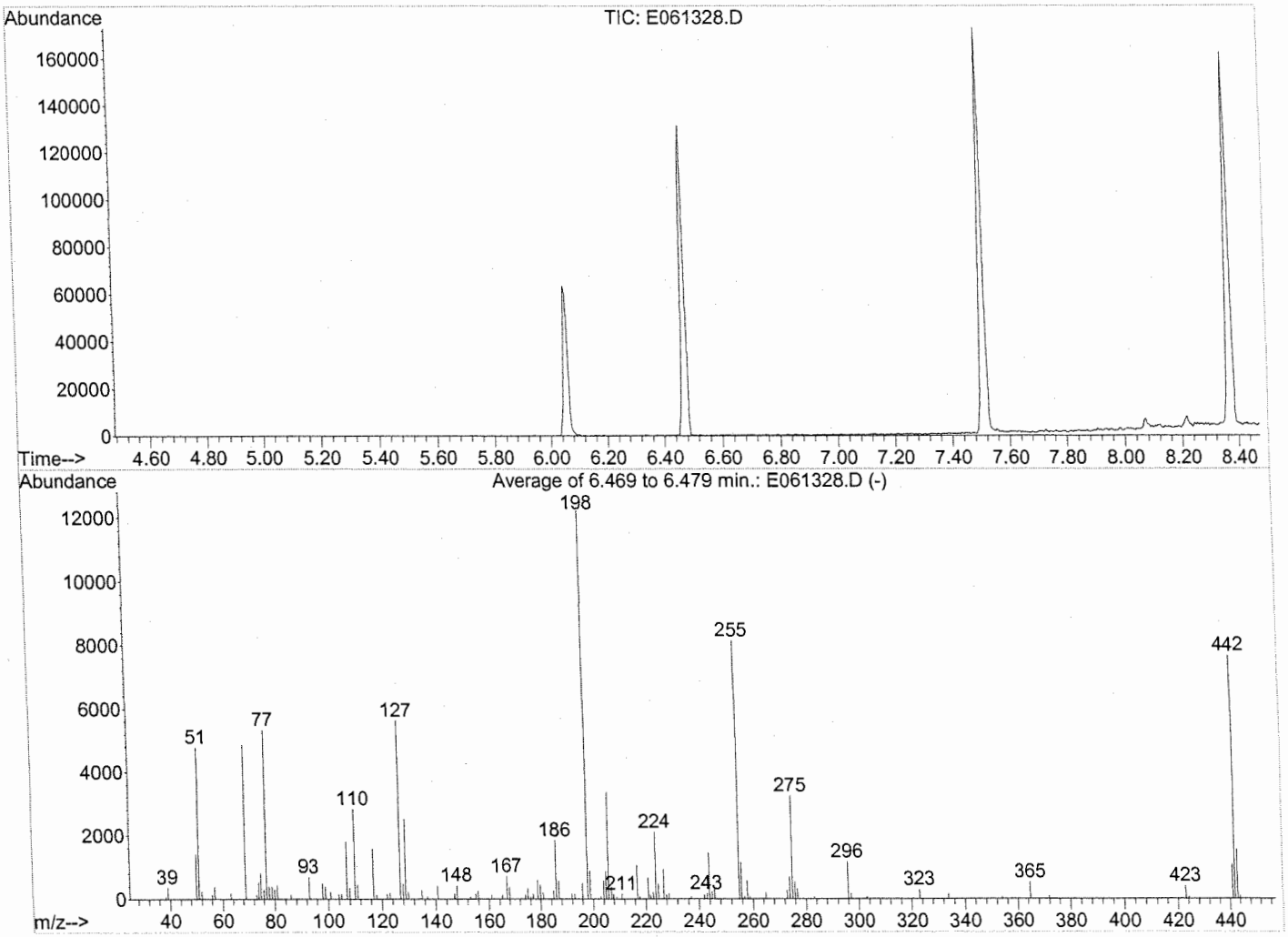
Calibration Files
1 =E061331.D 2 =E061332.D 3 =E061333.D
4 =E061334.D 5 =E061335.D 6 =E061336.D

		Compound	1	2	3	4	5	6	Avg	%RSD
51)	T	Dibenzofuran	1.495	1.488	1.505	1.518	1.525	1.570	1.541	3.29
52)	MT	2,4-Dinitrotolu	0.301	0.317	0.342	0.359	0.375	0.380	0.358	9.83
53)	T	Fluorene	1.115	1.185	1.201	1.208	1.243	1.289	1.239	6.33
54)	T	Diethylphthalat	1.120	1.151	1.175	1.198	1.231	1.249	1.210	4.87
55)	T	4-Chlorophenyl	0.598	0.620	0.624	0.630	0.634	0.654	0.638	4.04
56)	T	4-Nitroaniline	0.168	0.196	0.203	0.203	0.205	0.231	0.212	12.44
57)	I	Phenanthrene-d10	ISTD							
58)	T	2-Methyl-4,6-di			0.112	0.135	0.149	0.155	0.145	12.81
59)	CT	N-Nitrosodiphen	0.501	0.539	0.524	0.523	0.472	0.502	0.518	4.95#
60)	N	Azobenzene	0.711	0.748	0.745	0.764	0.772	0.774	0.761	3.29
61)	S	2,4,6-Tribromop	0.070	0.080	0.084	0.091	0.094	0.100	0.091	13.09
62)	T	4-Bromophenyl p	0.210	0.215	0.221	0.224	0.224	0.231	0.224	4.03
63)	T	Hexachlorobenze	0.217	0.234	0.230	0.229	0.231	0.234	0.232	3.29
64)	CMT	Pentachlorophen				0.130	0.153	0.164	0.159	11.82#
65)	T	Phenanthrene	1.111	1.134	1.119	1.109	1.134	1.154	1.141	2.56
66)	T	Anthracene	0.964	1.062	1.074	1.089	1.120	1.144	1.098	6.08
67)	N	Carbazole			0.816	0.612	0.558	0.727	0.730	16.69
68)	T	Di-n-butylphtha	0.921	1.010	1.079	1.129	1.195	1.183	1.110	9.02
69)	CT	Fluoranthene	0.906	0.932	1.006	0.993	1.061	1.084	1.017	6.87#
70)	I	Chrysene-d12	ISTD							
71)	N	Benzidine		0.482	0.581	0.426	0.407	0.406	0.453	13.70
72)	MT	Pyrene	1.600	1.578	1.674	1.675	1.654	1.714	1.697	5.92
73)	S	Terphenyl-d14	0.963	0.978	1.023	1.055	1.049	1.086	1.061	7.27
74)	T	Butylbenzylphth	0.488	0.542	0.630	0.626	0.658	0.655	0.618	10.99
75)	T	3,3'-Dichlorobe			0.275	0.220	0.260	0.337	0.299	18.47
76)	T	Benz(a)anthrace	1.099	1.068	1.077	1.119	1.122	1.150	1.118	3.09
77)	T	Chrysene	1.015	1.044	1.032	1.044	1.041	1.065	1.046	1.62
78)	T	Bis(2-ethylhexy	0.641	0.655	0.742	0.753	0.823	0.819	0.754	9.60
79)	N	Mirex	0.232	0.191	0.221	0.224	0.239	0.239	0.227	7.09
80)	I	Perylene-d12	ISTD							
81)	CT	Di-n-octylphtha			1.691	1.735	1.949	2.145	2.012	13.03#
82)	T	Benzo(b)fluoran	1.189	1.183	1.210	1.243	1.275	1.372	1.283	7.25
83)	T	Benzo(k)fluoran	1.098	1.169	1.295	1.294	1.285	1.318	1.268	6.96
84)	CT	Benzo(a)pyrene	0.872	0.871	0.976	1.025	1.084	1.106	1.022	10.30#
85)	T	Indeno(1,2,3-c,	0.811	0.792	0.750	0.842	0.936	0.872	0.842	6.95
86)	T	Dibenz(a,h)anth	0.665	0.670	0.656	0.725	0.793	0.750	0.717	7.03
87)	T	Benzo(g,h,i)per	0.678	0.667	0.655	0.697	0.775	0.708	0.697	5.52

(#) = Out of Range ### Number of calibration levels exceeded format ###

DFTPP

Data File : C:\MSDCHEM\1\DATA\E061011\E061328.D Vial: 1
Acq On : 11 Oct 2006 1:13 pm Operator: SC
Sample : STUN1011 Inst : MSE
Misc : TUNE;;;;;;;23-MS-67-2 Multiplr: 1.00
MS Integration Params: events.e
Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method



AutoFind: Scans 260, 261, 262; Background Corrected with Scan 248

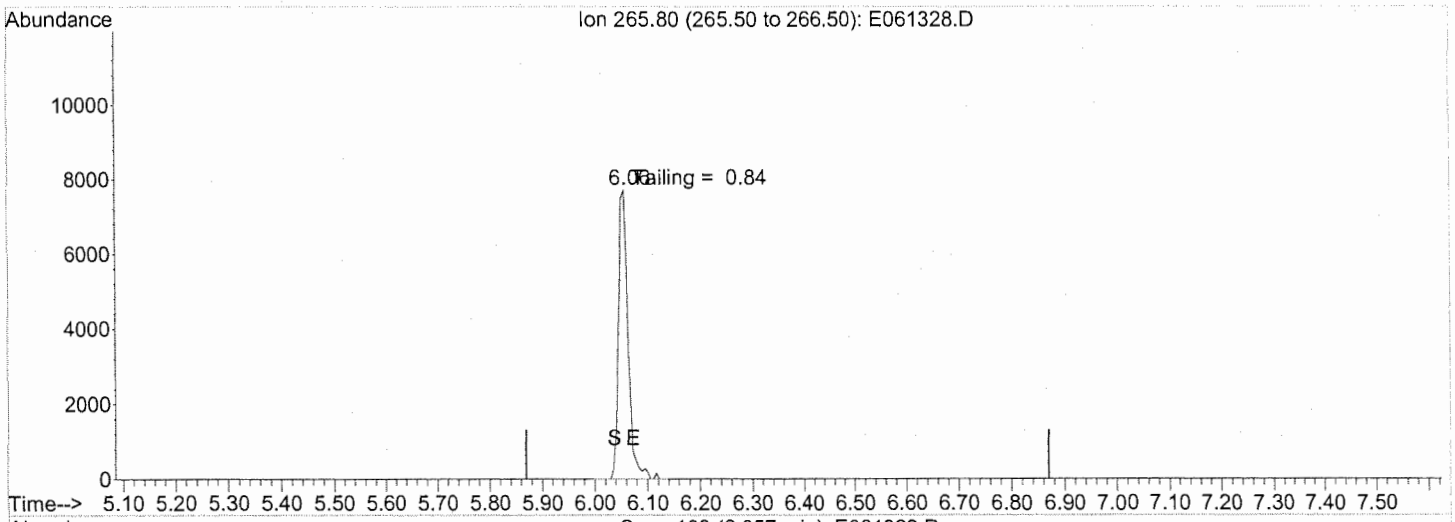
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.1	4769	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.7	4851	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	46.0	5616	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	12211	PASS
199	198	5	9	7.2	875	PASS
275	198	10	30	26.5	3231	PASS
365	198	1	100	4.2	514	PASS
441	443	0.01	100	68.8	1055	PASS
442	198	40	100	62.7	7655	PASS
443	442	17	23	20.0	1534	PASS

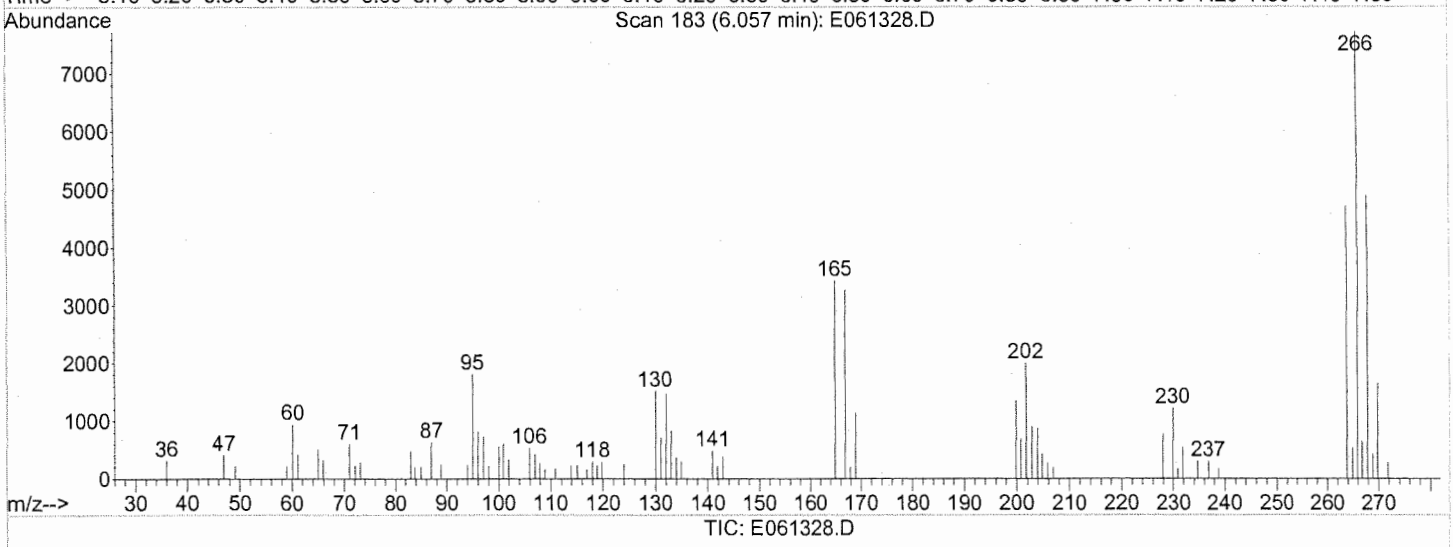
E061328.D TUNE.M Thu Oct 12 13:52:48 2006

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\E061011\E061328.D Vial: 1
Acq On : 11 Oct 2006 1:13 pm Operator: SC
Sample : STUN1011 Inst : MSE
Misc : TUNE;;;;;;;23-MS-67-2 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Oct 12 13:52 2006 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE.M (Chemstation Integrator)
Title : MS09 Tune Method
Last Update : Wed Nov 10 06:28:04 2004
Response via : Single Level Calibration





TIC: E061328.D

(1) Pentachlorophenol

6.06min 0.00

response 94463

Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

October 30, 2006 Service Request No: D0601625

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road
Suite 200
San Diego, CA 92127

RE: TDY/SC0307

Dear Brian:

Enclosed are the results of the sample(s) submitted to our laboratory on October 19, 2006. For your reference, these analyses have been assigned our service request number D0601625.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 123. You may also contact me via email at DBurnett@redding.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Douglas Burnett
Project Chemist

TABLE OF CONTENTS

CAS Service Request: d0601625
CAS Tier Level: IV

PAGE	SECTION
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Current CAS Redding Accreditation Programs

Federal and National Programs

- U.S Air Force, Air Force Center for Environmental Excellence (AFCEE)
  Approved laboratory for Wastewater and Hazardous Waste
- U.S. Army Corps of Engineers – MRD, HTRW Mandatory Center of Expertise
  Validated for Wastewater and Hazardous Waste
- Department of the Navy, Naval Facilities Engineering Service Center (NFESC)
  Approved laboratory for Wastewater and Hazardous Waste

State and Local Programs

- State of Alaska, Department of Environmental Conservation
  Approved Laboratory for Contaminated Sites
  Lab ID UST-001
- State of Arizona, Department of Health Services, Office of Laboratory Licensure
  Approved Laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID AZ0604
- State of California, Department of Health Services, National Environmental Laboratory Accreditation Program **(NELAP)**
  Approved Laboratory for Drinking Water, Wastewater and Hazardous Waste
  Lab ID 01105CA
  - Los Angeles County Sanitation District
    Approved Laboratory for Wastewater
    Lab ID 10243
- State of California, Department of Health Services, Environmental Laboratory Accreditation Program (ELAP)
  Approved Laboratory for Microbiology of Drinking Water and Wastewater
  Lab ID 2635
- State of Florida, Department of Health, Bureau of Laboratories **(NELAP)**
  Approved Environmental Testing Laboratory for Wastewater and Hazardous Waste
  Lab ID E87203
- State of Kansas, Department of Health and Environment **(NELAP)**
  Approved Laboratory for Hazardous Waste
  Lab ID E-10323
- State of Massachusetts, Department of Environmental Protection
  Approved laboratory for Drinking Water and Wastewater
  Lab ID M-CA025
- State of Oklahoma, Department of Environmental Quality
  Approved Laboratory for General Water Quality/Sludge Testing
  Lab ID 9952
- State of Oregon, Environmental Laboratory Accreditation Program **(ORELAP)**
  Approved Laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID CA200004
- State of Utah, Department of Health, Bureau of Laboratory Improvement **(NELAP)**
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID QUAL1
- State of Washington, Department of Ecology
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID C1234
- State of Wisconsin, Department of Natural Resources
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID 999767340

Data Qualifiers for Organic Analyses

A -- This qualifier indicates that a Tentatively Identified Compound (TIC) is a suspected aldol-condensation product.

B -- This qualifier is used when the analyte is found in the associated blank as well as the sample, indicating possible blank contamination. The data user should carefully evaluate the qualified analyte and the reported concentrations.

C -- This qualifier indicates the presence of this compound has been confirmed by the GC/MS analysis.

D -- This qualifier is used for all the analytes identified in an analysis at a secondary dilution factor. "D" qualifiers are used only for the samples reported at more than one dilution factor.

E -- This qualifier indicates that the value reported exceeds the linear calibration range for that analyte. Therefore, the sample should be reanalyzed at the appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

J -- Indicates an estimated value. This qualifier is used when the data indicates the presence of a target analyte below the reporting limit or the presence of a Tentatively Identified Compound (TIC).

N -- This qualifier indicates presumptive evidence of an analyte. This flag is only used for Tentatively Identified Compounds (TIC) where the identification is based on a mass spectral library research. It is applied to all TIC results. For generic characterization of a TIC, such as a chlorinated hydrocarbon, the "N" qualifier is not used.

P -- This qualifier is used for target analytes when there is a greater than 40% difference for detected concentrations between the two columns or detectors. The concentration value is reported on Form I and flagged with a "P".

U -- Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustments when indicated.

DL -- Diluted reanalysis. "DL" indicates that the results were determined in an analysis of a secondary dilution of a sample or extract. A digit to indicate multiple dilutions of the sample or extract may follow the "DL" suffix. The results of more than one diluted reanalysis may be reported.

MS -- Matrix spike (may be followed by a digit to indicate multiple matrix spikes within a sample set).

MSD -- Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spikes within a sample set).

R -- Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. It may be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE -- Re-extraction and reanalysis. The sample was re-extracted and reanalyzed. It may be followed by a digit to indicate multiple re-extracted analysis of the same sample at the same dilution.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
D0601625-001	T-52-56.5	10/17/06	08:40
D0601625-002	T-52-GW11	10/17/06	09:05
D0601625-003	QCEB	10/17/06	09:45
D0601625-004	T-52-GW26	10/17/06	10:20
D0601625-005	T-52-GW37	10/17/06	13:15
D0601625-006	T-53-S7	10/17/06	14:45
D0601625-007	T-53-GW11	10/17/06	15:13
D0601625-008	T-53-GW26	10/17/06	16:10
D0601625-009	T-53-GW38	10/17/06	17:30

CASE NARRATIVE

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	D0601625
Project:	TDY	**Date Received:**	10/19/06
Sample Matrix:	Solid \ Aqueous		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS).This report contains analytical results for samples designated for Tier IV data deliverables.

Sample Receipt

Two solid samples and seven aqueous samples were received for analysis at Columbia Analytical Services on 10/19/06.

The following discrepancies were noted upon initial sample inspection:

- Sample T-52-GW37 arrived with approximately 300mL in the 1000mL Amber glass container.

The samples were received in good condition and otherwise consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Fuel Scan (C6-C36) by EPA Method 8015B

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

Volatile Organic Compounds by EPA Method 8260B

Samples T-52-GW11 and T-53-G11 were analyzed and reanalyzed at a dilution due to the levels of target analytes. The reporting limits are adjusted to reflect the dilution.

Semivolatile Organic Compounds by EPA Method 8270C

The primary evaluation criterion was exceeded for 3-Nitroaniline in Continuing Calibration Verification (CCV) of DWG0600915. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the average percent recovery of all analytes in the verification standard. The standard meets the alternative evaluation criteria. A low level standard at Reporting Limit (PQL) was analyzed within the analysis sequence to confirm that instrument had enough sensitivity to detect this analyte. Since the analyte in question did not found in field samples and the spike recovery was within the control criteria; the quality of the sample data is not affected.

The Method Reporting Limits (MRL) for sample T-52-GW37 was elevated due to less than optimal sample volume available for analysis.

Approved by: _____ **Date:** 10-30-06

CHAIN OF CUSTODY DOCUMENTATION .

Document N[redacted]

Analysis Request and Chain of Custody Record

Page 1 of 1

White copy: to accompany samples

Yellow copy: field copy

Project Name: TDY	Project Number: SC0307
Samplers Names: CL RG BH	Project Contact: Brian Hitchens
Laboratory Name: Columbia Analytical	Lab Contact: Doug Bennet
Lab Address: 5090 Caterpillar Rd Redding CA 96003	Lab Phone: 530-244-5227
	Carrier/Waybill No.

Required Analyses

VOCs by 8260	Metals	SVOCs by 8270	TPH 8015M						

Bottle Type and Volume/Preservative

1 Liter Amber HCl 6 vials 40ml each		1 Liter Amber	VOA						

	Sample Name	Date	Time	Sample Type	Number of Containers										Comments	Lab Use Only: Condition of Bottles
-1	T-52-S6.5	10/17/06	8:40	soil	1			1							Analyze from "Bottom" side	
-2	T-52-GW11	10/17/06	9:05	H_2O	3		1	3								
-3	QCEB	10/17/06	9:45	H_2O	3											
-4	T-52-GW26	10/17/06	10:20	H_2O	3		1	3								
-5	T-52-GW37	10/17/06	13:15	H_2O	3		1	3								
-6	T-53-S7	10/17/06	14:45	soil	1			1							Analyze from "Bottom" side	
-7	T-53-GW11	10/17/06	15:13	H_2O	3		1	3								
-8	T-53-GW26	10/17/06	16:10	H_2O	3		1	3								
-9	T-53-GW36	10/17/06	17:30	H_2O	3		1	3								

Special Instructions: Analyze the soil sample from the "Bottom" labeled side

Turn-around Time: ☐ Normal ☐ Rush: _____

1. Relinquished by (Signiture/Affiliation)	Date 10/18/06 Time 12:12	1. Received by (Signiture/Affiliation)	Date 10/19/06 Time 0930
2. Relinquished by (Signiture/Affiliation)	Date Time	2. Received by (Signiture/Affiliation)	Date Time
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

Columbia Analytical Services inc.
An Employee-Owned Company

5090 Caterpillar Road
Redding, CA 96003
Phone: (530) 244-5262
Fax #: (530) 244-4109

[redacted]

COOLER RECEIPT FORM

Project/Client: TDY Batch

1. Cooler(s)/Sample(s) received on: 10/19/06 Shipped via: UPS

   Shipping Bill # (s): J196 909 137 5 # of Coolers/Packages 1

2. Radiological Screening by: M McCullough (Acceptable) Rejected

3. Custody seals on outside of cooler: YES (NO) N/A
   If yes, where? Front_____ Rear_____ Lt Side_____ Rt Side_____
   Seals intact: YES (NO)

COOLER/SAMPLE PROCESSING

4. Sample Processing/Tagging by: M McCullough

5. Cooler(s)/Sample(s) Temp's: 3.0°c _____ _____ _____ _____
   (or)
   Temp. Blank (if included): _____ _____ _____ _____ _____

6. Type of packing material (circle): (Ice) Blue Ice Bubble Wrap Bubble Bags (Zip Locks) Webbing
   Other:_____

7. Custody papers properly filled out (ink, signed, dated, released, etc.)? (YES) NO
8. Containers arrived in good condition (not broken, leaking, etc.)? (YES) NO
9. Samples received with adequate holding time remaining to conduct analysis? (YES) NO
10. Container labels complete (i.e. analysis, preservation, date/time, etc.)? (YES) NO
11. Container labels and tags agree with custody papers? (YES) NO
12. Correct types of containers used for the tests indicated? (YES) NO
    a.) Adequate sample received? If not, note on Exception Report. (YES) NO
13. Containers supplied by: (CAS) Other
14. Preserved containers received with the appropriate preservative? (YES) NO N/A
    pH: VOAS @ <2 per DOCS (or) See pH log.
15. VOA vials free of air bubbles? (YES) NO N/A
16. Trip Blank preparation date: _____ CAS Other (N/A)
17. Volatile Soil samples: Encores or Plugs in Vials
    Freezer or GC/MS Date:_____ Time:_____ (N/A)

See Exception Report for discrepancies.

Rev. 8/18/2004/ds

Columbia Analytical Services INC.
An Employee - Owned Company

5090 Caterpillar Road
Redding, CA 96003
530-244-5227
FAX 530-244-4109

BATCH: [redacted]
CLIENT:
PROJECT:

SAMPLE RECEIPT EXCEPTION REPORT

Issue Type Legend	
	1) Holding Time
	2) Temperature
	3) COC/Label
	4) Container
	5) Other

SMO Technician / Date: Tammy Reed 10/19/06
Project Chemist / Date: (AD) 10-30-06.
Client Contact(s):

Item #	Issue Type	DESCRIPTION
1	4	Sample -005 the 1000mL amber has 1/4 sample - 250-300mL.

Corrective Actions Taken

1	Noted. RL elevated.

Hydrocarbon Scan

Client: GeoSyntec Consultants
Project: TDY/SC0307
Service Request: D0601625

Cover Page - Organic Analysis Data Package
Hydrocarbon Scan / Fuel Characterization

Sample Name	Lab Code	Date Collected	Date Received
T-52-56.5	D0601625-001	10/17/2006	10/19/2006
T-52-GW11	D0601625-002	10/17/2006	10/19/2006
T-52-GW26	D0601625-004	10/17/2006	10/19/2006
T-52-GW37	D0601625-005	10/17/2006	10/19/2006
T-53-S7	D0601625-006	10/17/2006	10/19/2006
T-53-GW11	D0601625-007	10/17/2006	10/19/2006
T-53-GW26	D0601625-008	10/17/2006	10/19/2006
T-53-GW38	D0601625-009	10/17/2006	10/19/2006
T-52-56.5MS	DWG0600919-1	10/17/2006	10/19/2006
T-52-56.5DMS	DWG0600919-2	10/17/2006	10/19/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang
Name: WIDA ANG
Date: 10/27/06
Title: Organic Manager

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-52-GW11	**Units:**	mg/L
Lab Code:	D0601625-002	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	10/25/06	10/26/06	DWG0600916	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	94	50-140	10/26/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-52-GW26	**Units:**	mg/L
Lab Code:	D0601625-004	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	10/25/06	10/26/06	DWG0600916	
Heavy Range Organics (C24-C36)	**0.61**	J	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	90	50-140	10/26/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-52-GW37	**Units:**	mg/L
Lab Code:	D0601625-005	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	
Diesel Range Organics (C13-C22)	**1.1**		1.0	0.44	1	10/25/06	10/26/06	DWG0600916	
Heavy Range Organics (C24-C36)	**1.0**		1.0	0.50	1	10/25/06	10/26/06	DWG0600916	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	90	50-140	10/26/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-53-GW11	**Units:**	mg/L
Lab Code:	D0601625-007	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	
Diesel Range Organics (C13-C22)	**0.51**	J	1.0	0.44	1	10/25/06	10/26/06	DWG0600916	
Heavy Range Organics (C24-C36)	**0.86**	J	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	92	50-140	10/26/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-53-GW26	**Units:**	mg/L
Lab Code:	D0601625-008	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	10/25/06	10/26/06	DWG0600916	
Heavy Range Organics (C24-C36)	**0.53**	J	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	90	50-140	10/26/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Water	**Date Received:**	10/19/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-53-GW38	**Units:**	mg/L
Lab Code:	D0601625-009	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	10/25/06	10/26/06	DWG0600916	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	80	50-140	10/26/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	DWG0600916-3	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	10/25/06	10/26/06	DWG0600916	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	10/25/06	10/26/06	DWG0600916	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	92	50-140	10/26/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Soil	**Date Received:**	10/19/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-52-56.5	**Units:**	mg/Kg
Lab Code:	D0601625-001	**Basis:**	Wet
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	10	3.3	1	10/23/06	10/26/06	DWG0600919	
Diesel Range Organics (C13-C22)	ND	U	10	5.4	1	10/23/06	10/26/06	DWG0600919	
Heavy Range Organics (C24-C36)	ND	U	10	5.5	1	10/23/06	10/26/06	DWG0600919	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	84	40-150	10/26/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	10/17/2006
Sample Matrix:	Soil	**Date Received:**	10/19/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-53-S7	**Units:**	mg/Kg
Lab Code:	D0601625-006	**Basis:**	Wet
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	9.9	3.3	1	10/23/06	10/26/06	DWG0600919	
Diesel Range Organics (C13-C22)	ND	U	9.9	5.4	1	10/23/06	10/26/06	DWG0600919	
Heavy Range Organics (C24-C36)	ND	U	9.9	5.5	1	10/23/06	10/26/06	DWG0600919	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	82	40-150	10/26/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	DWG0600919-4	**Basis:**	Wet
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	10	3.3	1	10/23/06	10/26/06	DWG0600919	
Diesel Range Organics (C13-C22)	ND	U	10	5.4	1	10/23/06	10/26/06	DWG0600919	
Heavy Range Organics (C24-C36)	ND	U	10	5.5	1	10/23/06	10/26/06	DWG0600919	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	80	40-150	10/26/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3510M
Analysis Method: 8015B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
T-52-GW11	D0601625-002	94
T-52-GW26	D0601625-004	90
T-52-GW37	D0601625-005	90
T-53-GW11	D0601625-007	92
T-53-GW26	D0601625-008	90
T-53-GW38	D0601625-009	80
Method Blank	DWG0600916-3	92
Lab Control Sample	DWG0600916-1	90
Duplicate Lab Control Sample	DWG0600916-2	95

Surrogate Recovery Control Limits (%)

Sur1 = Octacosane	50-140

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Soil

Service Request: D0601625

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3550B Micro
Analysis Method: 8015B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
T-52-56.5	D0601625-001	84
T-53-S7	D0601625-006	82
Method Blank	DWG0600919-4	80
T-52-56.5MS	DWG0600919-1	81
T-52-56.5DMS	DWG0600919-2	83
Lab Control Sample	DWG0600919-3	84

Surrogate Recovery Control Limits (%)

Sur1 = Octacosane	40-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Extracted:**	10/23/2006
Sample Matrix:	Soil	**Date Analyzed:**	10/26/2006

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-52-56.5	**Units:**	mg/Kg
Lab Code:	D0601625-001	**Basis:**	Wet
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B	**Extraction Lot:**	DWG0600919

		T-52-56.5MS DWG0600919-1 Matrix Spike			T-52-56.5DMS DWG0600919-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Diesel Range Organics (C13-C22)	ND	243	300	81	246	300	82	50-140	1	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Extracted: 10/25/2006
Date Analyzed: 10/26/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3510M
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low
Extraction Lot: DWG0600916

	Lab Control Sample DWG0600916-1 Lab Control Spike			Duplicate Lab Control Sample DWG0600916-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Diesel Range Organics (C13-C22)	21.9	30.0	73	22.8	30.0	76	50-130	4	25

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Extracted:**	10/23/2006
Sample Matrix:	Soil	**Date Analyzed:**	10/26/2006

Lab Control Spike Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method:	EPA 3550B Micro	**Units:**	mg/Kg
Analysis Method:	8015B	**Basis:**	Wet
		Level:	Low
		Extraction Lot:	DWG0600919

	Lab Control Sample DWG0600919-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Diesel Range Organics (C13-C22)	258	300	86	50-140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Extracted: 10/25/2006
Date Analyzed: 10/26/2006
Time Analyzed: 01:07

Method Blank Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name: Method Blank
Lab Code: DWG0600916-3

File ID: Q:\TARGET\CHEM\GCQ.I\102506S\1025024.
Instrument ID: GCQ

Extraction Method: EPA 3510M
Analysis Method: 8015B

Level: Low
Extraction Lot: DWG0600916

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	DWG0600916-1	Q:\TARGET\CHEM\GCQ.I\102506S\1025025.D	10/26/06	01:47
Duplicate Lab Control Sample	DWG0600916-2	Q:\TARGET\CHEM\GCQ.I\102506S\1025026.D	10/26/06	02:26
T-52-GW11	D0601625-002	Q:\TARGET\CHEM\GCQ.I\102506S\1025027.D	10/26/06	03:06
T-52-GW26	D0601625-004	Q:\TARGET\CHEM\GCQ.I\102506S\1025028.D	10/26/06	03:45
T-52-GW37	D0601625-005	Q:\TARGET\CHEM\GCQ.I\102506S\1025029.D	10/26/06	04:25
T-53-GW11	D0601625-007	Q:\TARGET\CHEM\GCQ.I\102506S\1025030.D	10/26/06	05:04
T-53-GW26	D0601625-008	Q:\TARGET\CHEM\GCQ.I\102506S\1025031.D	10/26/06	05:44
T-53-GW38	D0601625-009	Q:\TARGET\CHEM\GCQ.I\102506S\1025032.D	10/26/06	06:23

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Extracted:**	10/23/2006
Sample Matrix:	Soil	**Date Analyzed:**	10/26/2006
		Time Analyzed:	16:58

Method Blank Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	**File ID:**	Q:\TARGET\CHEM\GCQ.I\102606\1026004.
Lab Code:	DWG0600919-4	**Instrument ID:**	GCQ
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B	**Extraction Lot:**	DWG0600919

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	DWG0600919-3	Q:\TARGET\CHEM\GCQ.I\102606\1026005.D	10/26/06	17:38
T-52-56.5	D0601625-001	Q:\TARGET\CHEM\GCQ.I\102606\1026007.D	10/26/06	18:57
T-52-56.5MS	DWG0600919-1	Q:\TARGET\CHEM\GCQ.I\102606\1026008.D	10/26/06	19:37
T-52-56.5DMS	DWG0600919-2	Q:\TARGET\CHEM\GCQ.I\102606\1026009.D	10/26/06	20:16
T-53-S7	D0601625-006	Q:\TARGET\CHEM\GCQ.I\102606\1026010.D	10/26/06	20:56

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625

Lab Control Sample/Duplicate Lab Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	Lab Control Sample	**Sample Name:**	Duplicate Lab Control Sample
Lab Code:	DWG0600916-1	**Lab Code:**	DWG0600916-2
File ID:	Q:\TARGET\CHEM\GCQ.I\102506S\1025025.D	**File ID:**	Q:\TARGET\CHEM\GCQ.I\102506S\1025026.D
Instrument ID:	GCQ	**Instrument ID:**	GCQ
Date Extracted:	10/25/2006	**Date Extracted:**	10/25/2006
Date Analyzed:	10/26/2006	**Date Analyzed:**	10/26/2006
Time Analyzed:	01:47	**Time Analyzed:**	02:26

Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B	**Extraction Lot:**	DWG0600916

These Lab Control Samples apply to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	DWG0600916-3	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D	10/26/06	01:07
T-52-GW11	D0601625-002	Q:\TARGET\CHEM\GCQ.I\102506S\1025027.D	10/26/06	03:06
T-52-GW26	D0601625-004	Q:\TARGET\CHEM\GCQ.I\102506S\1025028.D	10/26/06	03:45
T-52-GW37	D0601625-005	Q:\TARGET\CHEM\GCQ.I\102506S\1025029.D	10/26/06	04:25
T-53-GW11	D0601625-007	Q:\TARGET\CHEM\GCQ.I\102506S\1025030.D	10/26/06	05:04
T-53-GW26	D0601625-008	Q:\TARGET\CHEM\GCQ.I\102506S\1025031.D	10/26/06	05:44
T-53-GW38	D0601625-009	Q:\TARGET\CHEM\GCQ.I\102506S\1025032.D	10/26/06	06:23

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Extracted:**	10/23/2006
Sample Matrix:	Soil	**Date Analyzed:**	10/26/2006
		Time Analyzed:	17:38

Lab Control Sample Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	Lab Control Sample	**File ID:**	Q:\TARGET\CHEM\GCQ.I\102606\1026005.
Lab Code:	DWG0600919-3	**Instrument ID:**	GCQ
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B	**Extraction Lot:**	DWG0600919

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	DWG0600919-4	Q:\TARGET\CHEM\GCQ.I\102606\1026004.D	10/26/06	16:58
T-52-56.5	D0601625-001	Q:\TARGET\CHEM\GCQ.I\102606\1026007.D	10/26/06	18:57
T-52-56.5MS	DWG0600919-1	Q:\TARGET\CHEM\GCQ.I\102606\1026008.D	10/26/06	19:37
T-52-56.5DMS	DWG0600919-2	Q:\TARGET\CHEM\GCQ.I\102606\1026009.D	10/26/06	20:16
T-53-S7	D0601625-006	Q:\TARGET\CHEM\GCQ.I\102606\1026010.D	10/26/06	20:56

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 09/15/2006

Initial Calibration Summary
Hydrocarbon Scan / Fuel Characterization

ICAL ID: CAL1210
Instrument ID: GCQ

Column: RTX-5

Level ID	File ID	Level ID	File ID
A	C:\HPCHEM\1\DATA\091506P\0915004.D	E	C:\HPCHEM\1\DATA\091506P\0915008.D
B	C:\HPCHEM\1\DATA\091506P\0915005.D	F	C:\HPCHEM\1\DATA\091506P\0915009.D
C	C:\HPCHEM\1\DATA\091506P\0915006.D	G	C:\HPCHEM\1\DATA\091506P\0915010.D
D	C:\HPCHEM\1\DATA\091506P\0915007.D	H	C:\HPCHEM\1\DATA\091506P\0915011.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Gasoline Range Organics (C6-C12)	A	5.0	1.83E+5	B	10	1.45E+5	C	50	1.14E+5	D	100	1.08E+5	E	500	1.04E+5
	F	1000	1.01E+5	G	2500	96200	H	5000	93000						
Diesel Range Organics (C13-C22)	A	5.0	1.02E+5	B	10	1.05E+5	C	50	1.07E+5	D	100	1.03E+5	E	500	97100
	F	1000	94600	G	2500	91400	H	5000	87800						
Heavy Range Organics (C24-C36)	A	5.0	96900	B	10	89000	C	50	83000	D	100	85000	E	500	76200
	F	1000	75000	G	2500	71900	H	5000	69700						
Octacosane	A	2.5	1.47E+5	B	5.0	94000	C	25	99900	D	50	98900	E	75	97700
	F	130	96300	G	150	95300	H	300	96700						

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 09/15/2006

Initial Calibration Summary
Hydrocarbon Scan / Fuel Characterization

ICAL ID: CAL1210
Instrument ID: GCQ

Column: RTX-5

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Gasoline Range Organics (C6-C12)	TRG	Linear	R2	1.000		≥ 0.990
Diesel Range Organics (C13-C22)	MS	AverageRF	% RSD	6.9		≤ 20
Heavy Range Organics (C24-C36)	TRG	AverageRF	% RSD	11.5		≤ 20
Octacosane	SURR	AverageRF	% RSD	17.3		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
ICAL Date: 09/15/2006
Date Analyzed: 09/16/2006

Second Source Calibration Verification
Hydrocarbon Scan / Fuel Characterization

ICAL Type: External Standard
Analysis Method: 8015B

ICAL ID: CAL1210
Units: mg/L

File ID: C:\HPCHEM\1\DATA\091506P\0915015.D

Column ID: RTX-5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	1000	930	118000	89700	NA	-7	± 30 %	Linear
Diesel Range Organics (C13-C22)	1000	860	98400	84700	-14	NA	± 30 %	AverageRF
Heavy Range Organics (C24-C36)	1000	830	80800	67200	-17	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
Date Analyzed: 10/25/2006

Continuing Calibration Verification Summary
Hydrocarbon Scan / Fuel Characterization

ICAL Type: External Standard
Analysis Method: 8015B

ICAL Date: 09/15/2006
ICAL ID: CAL1210
Analysis Lot: DWG0600917
Units: mg/L

File ID: C:\HPCHEM\1\DATA\102506S\1025022.D

Column ID: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	500	470	118000	93200	NA	-6	± 15 %	Linear
Diesel Range Organics (C13-C22)	500	470	98400	93400	-5	NA	± 15 %	AverageRF
Heavy Range Organics (C24-C36)	500	530	80800	85400	6	NA	± 15 %	AverageRF
Octacosane	75	71	103000	97300	-6	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Analyzed:**	10/26/2006

Continuing Calibration Verification Summary
Hydrocarbon Scan / Fuel Characterization

ICAL Type:	External Standard	**ICAL Date:**	09/15/2006
Analysis Method:	8015B	**ICAL ID:**	CAL1210
		Analysis Lot:	DWG0600917
		Units:	mg/L
File ID:	C:\HPCHEM\1\DATA\102506S\1025033.D	**Column ID:**	RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	1000	950	118000	91600	NA	-5	± 15 %	Linear
Diesel Range Organics (C13-C22)	1000	910	98400	89500	-9	NA	± 15 %	AverageRF
Heavy Range Organics (C24-C36)	1000	1000	80800	81400	1	NA	± 15 %	AverageRF
Octacosane	130	110	103000	90300	-12	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
Date Analyzed: 10/26/2006

Continuing Calibration Verification Summary
Hydrocarbon Scan / Fuel Characterization

ICAL Type: External Standard
Analysis Method: 8015B

ICAL Date: 09/15/2006
ICAL ID: CAL1210
Analysis Lot: DWG0600921
Units: mg/L

File ID: C:\HPCHEM\1\DATA\102606\1026003.D

Column ID: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	500	480	118000	95000	NA	-4	± 15 %	Linear
Diesel Range Organics (C13-C22)	500	480	98400	94300	-4	NA	± 15 %	AverageRF
Heavy Range Organics (C24-C36)	500	530	80800	85600	6	NA	± 15 %	AverageRF
Octacosane	75	71	103000	98200	-5	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
Date Analyzed: 10/26/2006

Continuing Calibration Verification Summary
Hydrocarbon Scan / Fuel Characterization

ICAL Type: External Standard
Analysis Method: 8015B

ICAL Date: 09/15/2006
ICAL ID: CAL1210
Analysis Lot: DWG0600921
Units: mg/L

File ID: C:\HPCHEM\1\DATA\102606\1026011.D

Column ID: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	1000	990	118000	95200	NA	-1	± 15 %	Linear
Diesel Range Organics (C13-C22)	1000	930	98400	91400	-7	NA	± 15 %	AverageRF
Heavy Range Organics (C24-C36)	1000	1000	80800	82900	3	NA	± 15 %	AverageRF
Octacosane	130	110	103000	92100	-11	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
Date Analyzed: 10/27/2006

Continuing Calibration Verification Summary
Hydrocarbon Scan / Fuel Characterization

ICAL Type: External Standard
Analysis Method: 8015B

ICAL Date: 09/15/2006
ICAL ID: CAL1210
Analysis Lot: DWG0600921
Units: mg/L

File ID: C:\HPCHEM\1\DATA\102606\1026019.D

Column ID: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	500	480	118000	94700	NA	-5	± 15 %	Linear
Diesel Range Organics (C13-C22)	500	470	98400	92900	-6	NA	± 15 %	AverageRF
Heavy Range Organics (C24-C36)	500	530	80800	85100	5	NA	± 15 %	AverageRF
Octacosane	75	70	103000	96500	-7	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625
Date Analyzed: 10/27/2006

Continuing Calibration Verification Summary
Hydrocarbon Scan / Fuel Characterization

ICAL Type: External Standard
Analysis Method: 8015B

ICAL Date: 09/15/2006
ICAL ID: CAL1210
Analysis Lot: DWG0600921
Units: mg/L

File ID: C:\HPCHEM\1\DATA\102606\1026028.D

Column ID: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics (C6-C12)	1000	1000	118000	97200	NA	1	± 15 %	Linear
Diesel Range Organics (C13-C22)	1000	940	98400	92700	-6	NA	± 15 %	AverageRF
Heavy Range Organics (C24-C36)	1000	1000	80800	84100	4	NA	± 15 %	AverageRF
Octacosane	130	110	103000	93100	-10	NA	± 25 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601625

Analysis Run Log
Hydrocarbon Scan / Fuel Characterization

Analysis Method: 8015B

Analysis Lot: DWG0600917
Instrument ID: GCQ
Column: RTX-5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\1025022.D	Continuing Calibration Verification	DWG0600917-1	10/25/2006	23:48		10/26/2006	00:19
\1025024.D	Method Blank	DWG0600916-3	10/26/2006	01:07		10/26/2006	01:38
\1025025.D	Lab Control Sample	DWG0600916-1	10/26/2006	01:47		10/26/2006	02:18
\1025026.D	Duplicate Lab Control Sample	DWG0600916-2	10/26/2006	02:26		10/26/2006	02:57
\1025027.D	T-52-GW11	D0601625-002	10/26/2006	03:06		10/26/2006	03:37
\1025028.D	T-52-GW26	D0601625-004	10/26/2006	03:45		10/26/2006	04:16
\1025029.D	T-52-GW37	D0601625-005	10/26/2006	04:25		10/26/2006	04:56
\1025030.D	T-53-GW11	D0601625-007	10/26/2006	05:04		10/26/2006	05:35
\1025031.D	T-53-GW26	D0601625-008	10/26/2006	05:44		10/26/2006	06:15
\1025032.D	T-53-GW38	D0601625-009	10/26/2006	06:23		10/26/2006	06:54
\1025033.D	Continuing Calibration Verification	DWG0600917-2	10/26/2006	07:03		10/26/2006	07:34

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants **Service Request:** D0601625
Project: TDY/SC0307

Analysis Run Log
Hydrocarbon Scan / Fuel Characterization

Analysis Method: 8015B **Analysis Lot:** DWG0600921
Instrument ID: GCQ
Column: RTX-5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\1026003.D	Continuing Calibration Verification	DWG0600921-1	10/26/2006	12:30		10/26/2006	13:01
\1026004.D	Method Blank	DWG0600919-4	10/26/2006	16:58		10/26/2006	17:29
\1026005.D	Lab Control Sample	DWG0600919-3	10/26/2006	17:38		10/26/2006	18:09
\1026006.D	ZZZZZZ	ZZZZZZ	10/26/2006	18:18		10/26/2006	18:49
\1026007.D	T-52-56.5	D0601625-001	10/26/2006	18:57		10/26/2006	19:28
\1026008.D	T-52-56.5MS	DWG0600919-1	10/26/2006	19:37		10/26/2006	20:08
\1026009.D	T-52-56.5DMS	DWG0600919-2	10/26/2006	20:16		10/26/2006	20:47
\1026010.D	T-53-S7	D0601625-006	10/26/2006	20:56		10/26/2006	21:27
\1026011.D	Continuing Calibration Verification	DWG0600921-2	10/26/2006	21:36		10/26/2006	22:07
\1026015.D	ZZZZZZ	ZZZZZZ	10/27/2006	00:14		10/27/2006	00:45
\1026019.D	Continuing Calibration Verification	DWG0600921-3	10/27/2006	02:52		10/27/2006	03:23
\1026021.D	ZZZZZZ	ZZZZZZ	10/27/2006	04:11		10/27/2006	04:42
\1026022.D	ZZZZZZ	ZZZZZZ	10/27/2006	04:50		10/27/2006	05:21
\1026023.D	ZZZZZZ	ZZZZZZ	10/27/2006	05:30		10/27/2006	06:01
\1026024.D	ZZZZZZ	ZZZZZZ	10/27/2006	06:09		10/27/2006	06:40
\1026026.D	ZZZZZZ	ZZZZZZ	10/27/2006	07:28		10/27/2006	07:59
\1026027.D	ZZZZZZ	ZZZZZZ	10/27/2006	08:07		10/27/2006	08:38
\1026028.D	Continuing Calibration Verification	DWG0600921-4	10/27/2006	08:54		10/27/2006	09:25

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601625
Date Extracted: 10/25/2006

Extraction Prep Log
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3510M
Analysis Method: 8015B

Extraction Lot: DWG0600916
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
T-52-GW11	D0601625-002	10/17/06	10/19/06	30.0ml	3ml	NA	
T-52-GW26	D0601625-004	10/17/06	10/19/06	30.0ml	3ml	NA	
T-52-GW37	D0601625-005	10/17/06	10/19/06	30.0ml	3ml	NA	
T-53-GW11	D0601625-007	10/17/06	10/19/06	30.0ml	3ml	NA	
T-53-GW26	D0601625-008	10/17/06	10/19/06	30.0ml	3ml	NA	
T-53-GW38	D0601625-009	10/17/06	10/19/06	30.0ml	3ml	NA	
Method Blank	DWG0600916-3	NA	NA	30.0ml	3ml	NA	
Lab Control Sample	DWG0600916-1	NA	NA	30.0ml	3ml	NA	
Duplicate Lab Control Sample	DWG0600916-2	NA	NA	30.0ml	3ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY/SC0307	**Date Extracted:**	10/23/2006
Sample Matrix:	Soil		

Extraction Prep Log
Hydrocarbon Scan / Fuel Characterization

Extraction Method:	EPA 3550B Micro	**Extraction Lot:**	DWG0600919
Analysis Method:	8015B	**Level:**	Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
T-52-56.5	D0601625-001	10/17/06	10/19/06	10.0g	10ml	NA	
T-53-S7	D0601625-006	10/17/06	10/19/06	10.2g	10ml	NA	
Method Blank	DWG0600919-4	NA	NA	10.0g	10ml	NA	
T-52-56.5MS	DWG0600919-1	10/17/06	10/19/06	10.0g	10ml	NA	
T-52-56.5DMS	DWG0600919-2	10/17/06	10/19/06	10.0g	10ml	NA	
Lab Control Sample	DWG0600919-3	NA	NA	10.0g	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QC Summary

Surrogate Recovery Summary

Group Type: Analysis
Group Dept: Semivoa GC
Group Name: DWG0600917

DataFile	LabID	ClientID	Octacosane
1025024.D	DWG0600916-3	Method Blank	92
1025025.D	DWG0600916-1	Lab Control Sample	90
1025026.D	DWG0600916-2	Duplicate Lab Control Sa	95
1025027.D	D0601625-002	T-52-GW11	94
1025028.D	D0601625-004	T-52-GW26	90
1025029.D	D0601625-005	T-52-GW37	90
1025030.D	D0601625-007	T-53-GW11	92
1025031.D	D0601625-008	T-53-GW26	90
1025032.D	D0601625-009	T-53-GW38	80

Group Information Summary

Name: DWG0600917
Dept: Semivoa GC
Type: Analysis

DateCreated: 10/26/2006 10:38:55
Last Updated: 10/26/2006 10:38:59

Header Information

File Specification	Client ID	B#	Lab ID	Type	Analysis Lot	Prep Lot	ICAL	List ID	Method
Q:\TARGET\CHEM\GCQ.I\102506S\102	Continuing Calibration Veri		DWG0600917-1	CCV	DWG0600917		CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	Method Blank		DWG0600916-3	MB	DWG0600917	DWG0600916	CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	Lab Control Sample		DWG0600916-1	LCS	DWG0600917	DWG0600916	CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	Duplicate Lab Control Samp		DWG0600916-2	DLCS	DWG0600917	DWG0600916	CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	T-52-GW11		D0601625-002	SMPL	DWG0600917	DWG0600916	CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	T-52-GW26		D0601625-004	SMPL	DWG0600917	DWG0600916	CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	T-52-GW37		D0601625-005	SMPL	DWG0600917	DWG0600916	CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	T-53-GW11		D0601625-007	SMPL	DWG0600917	DWG0600916	CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	T-53-GW26		D0601625-008	SMPL	DWG0600917	DWG0600916	CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	T-53-GW38		D0601625-009	SMPL	DWG0600917	DWG0600916	CAL1210	LJ1401	MJ411
Q:\TARGET\CHEM\GCQ.I\102506S\102	Continuing Calibration Veri		DWG0600917-2	CCV	DWG0600917		CAL1210	LJ1401	MJ411

Preparation Information

Lab ID	Prep Method	Prep Date	Amount Ext.	MeOH Volume	MeOH Aliquot	Final Volume	Conc. Level	%Solids	Dilution
DWG0600917-1							LOW		1
DWG0600916-3	EPA 3510M	10/25/06 12:42	30.0 ml			3 ml	LOW		1
DWG0600916-1	EPA 3510M	10/25/06 12:42	30.0 ml			3 ml	LOW		1
DWG0600916-2	EPA 3510M	10/25/06 12:42	30.0 ml			3 ml	LOW		1
D0601625-002	EPA 3510M	10/25/06 12:42	30.0 ml			3 ml	LOW		1
D0601625-004	EPA 3510M	10/25/06 12:42	30.0 ml			3 ml	LOW		1
D0601625-005	EPA 3510M	10/25/06 12:42	30.0 ml			3 ml	LOW		1
D0601625-007	EPA 3510M	10/25/06 12:42	30.0 ml			3 ml	LOW		1
D0601625-008	EPA 3510M	10/25/06 12:42	30.0 ml			3 ml	LOW		1
D0601625-009	EPA 3510M	10/25/06 12:42	30.0 ml			3 ml	LOW		1
DWG0600917-2							LOW		1

Surrogate Recovery Summary

Group Type: Analysis
Group Dept: Semivoa GC
Group Name: DWG0600921

DataFile	LabID	ClientID	Octacosane
1026004.D	DWG0600919-4	Method Blank	80
1026005.D	DWG0600919-3	Lab Control Sample	84
1026006.D	D0601607-001	20B-4-2	81
1026007.D	D0601625-001	T-52-56.5	84
1026008.D	DWG0600919-1	Matrix Spike	81
1026009.D	DWG0600919-2	Duplicate Matrix Spike	83
1026010.D	D0601625-006	T-53-S7	82
1026015.D	D0601560-001	IDW-MW-51 SPX	80
1026021.D	DWG0600920-5	Method Blank	83
1026022.D	DWG0600920-3	Lab Control Sample	83
1026023.D	DWG0600920-4	Duplicate Lab Control Sa	81
1026024.D	P0600153-001	VM-1	81
1026026.D	DWG0600920-1	Matrix Spike	80
1026027.D	DWG0600920-2	Duplicate Matrix Spike	81

Group Information Summary

Name: DWG0600921
Dept: Semivoa GC
Type: Analysis

DateCreated: 10/27/2006 09:47:28
Last Updated: 10/27/2006 09:48:52

Header Information

File Specification	Client ID	B#	Lab ID	Type	Analysis Lot	Prep Lot	ICAL	List ID	Method
Q:\TARGET\CHEM\GCQ.I\102606\10260	Continuing Calibration Veri		DWG0600921-1	CCV	DWG0600921		CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Method Blank		DWG0600919-4	MB	DWG0600921	DWG0600919	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Lab Control Sample		DWG0600919-3	LCS	DWG0600921	DWG0600919	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	20B-4-2		D0601607-001	SMPL	DWG0600921	DWG0600919	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	T-52-56.5		D0601625-001	SMPL	DWG0600921	DWG0600919	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Matrix Spike		DWG0600919-1	MS	DWG0600921	DWG0600919	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Duplicate Matrix Spike		DWG0600919-2	DMS	DWG0600921	DWG0600919	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	T-53-S7		D0601625-006	SMPL	DWG0600921	DWG0600919	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Continuing Calibration Veri		DWG0600921-2	CCV	DWG0600921		CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	IDW-MW-51 SPX		D0601560-001	SMPL	DWG0600921	DWG0600919	CAL1210	LJ1408	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Continuing Calibration Veri		DWG0600921-3	CCV	DWG0600921		CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Method Blank		DWG0600920-5	MB	DWG0600921	DWG0600920	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Lab Control Sample		DWG0600920-3	LCS	DWG0600921	DWG0600920	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Duplicate Lab Control Samp		DWG0600920-4	DLCS	DWG0600921	DWG0600920	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	VM-1		P0600153-001	SMPL	DWG0600921	DWG0600920	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Matrix Spike		DWG0600920-1	MS	DWG0600921	DWG0600920	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Duplicate Matrix Spike		DWG0600920-2	DMS	DWG0600921	DWG0600920	CAL1210	LJ1402	MJ410
Q:\TARGET\CHEM\GCQ.I\102606\10260	Continuing Calibration Veri		DWG0600921-4	CCV	DWG0600921		CAL1210	LJ1402	MJ410

Group Information Summary

Name: DWG0600921
Dept: Semivoa GC
Type: Analysis

DateCreated: 10/27/2006 09:47:28
Last Updated: 10/27/2006 09:48:52

Preparation Information

Lab ID	Prep Method	Prep Date	Amount Ext.	MeOH Volume	MeOH Aliquot	Final Volume	Conc. Level	%Solids	Dilution
DWG0600921-1							LOW		1
DWG0600919-4	EPA 3550B Micro	10/23/06 13:46	10.0 g			10 ml	LOW		1
DWG0600919-3	EPA 3550B Micro	10/23/06 13:46	10.0 g			10 ml	LOW		1
D0601607-001	EPA 3550B Micro	10/23/06 13:46	10.1 g			10 ml	LOW		1
D0601625-001	EPA 3550B Micro	10/23/06 13:46	10.0 g			10 ml	LOW		1
DWG0600919-1	EPA 3550B Micro	10/23/06 13:46	10.0 g			10 ml	LOW		1
DWG0600919-2	EPA 3550B Micro	10/23/06 13:46	10.0 g			10 ml	LOW		1
D0601625-006	EPA 3550B Micro	10/23/06 13:46	10.2 g			10 ml	LOW		1
DWG0600921-2							LOW		1
D0601560-001	EPA 3550B Micro	10/23/06 13:46	10.0 g			10 ml	LOW		1
DWG0600921-3							LOW		1
DWG0600920-5	EPA 3550B Micro	10/26/06 13:19	10.0 g			10 ml	LOW		1
DWG0600920-3	EPA 3550B Micro	10/26/06 13:19	10.0 g			10 ml	LOW		1
DWG0600920-4	EPA 3550B Micro	10/26/06 13:19	10.0 g			10 ml	LOW		1
P0600153-001	EPA 3550B Micro	10/26/06 13:19	10.0 g			10 ml	LOW		10
DWG0600920-1	EPA 3550B Micro	10/26/06 13:19	10.0 g			10 ml	LOW		1
DWG0600920-2	EPA 3550B Micro	10/26/06 13:19	10.0 g			10 ml	LOW		1
DWG0600921-4							LOW		1

Initial Calibration Data

Initial Calibration - Detailed Report

Calibration ID:	CAL1210	**Instrument ID:**	GCQ
Method ID:	MJ410	**Column Name:**	RTX-5
		Calibration Fit:	AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
15151	C:\HPCHEM\1\DATA\091506P\0915004.D	09/15/2006 17:23	10/23/2006 09:51	10/23/2006 09:59
15152	C:\HPCHEM\1\DATA\091506P\0915005.D	09/15/2006 18:03	10/23/2006 09:51	10/23/2006 09:59
15153	C:\HPCHEM\1\DATA\091506P\0915006.D	09/15/2006 18:43	10/23/2006 09:51	10/23/2006 09:59
15154	C:\HPCHEM\1\DATA\091506P\0915007.D	09/15/2006 19:23	10/23/2006 09:51	10/23/2006 09:59
15155	C:\HPCHEM\1\DATA\091506P\0915008.D	09/15/2006 20:02	10/23/2006 09:51	10/23/2006 09:59
15156	C:\HPCHEM\1\DATA\091506P\0915009.D	09/15/2006 20:42	10/23/2006 09:52	10/23/2006 09:59
15157	C:\HPCHEM\1\DATA\091506P\0915010.D	09/15/2006 21:22	10/23/2006 09:52	10/23/2006 09:59
15158	C:\HPCHEM\1\DATA\091506P\0915011.D	09/15/2006 22:01	10/23/2006 09:52	10/23/2006 09:59

	FileID								Mean	
Parameter Name	**15151**	**15152**	**15153**	**15154**	**15155**	**15156**	**15157**	**15158**	**RF**	**%RSD**
Gasoline Range Organics (C6-C12)	1.8E+5	1.4E+5	1.1E+5	1.1E+5	1.0E+5	1.0E+5	9.6E+4	9.3E+4	1.2E+5	26.2#
Diesel Range Organics (C13-C22)	1.0E+5	1.0E+5	1.1E+5	1.0E+5	9.7E+4	9.5E+4	9.1E+4	8.8E+4	9.8E+4	6.9
Heavy Range Organics (C24-C36)	9.7E+4	8.9E+4	8.3E+4	8.5E+4	7.6E+4	7.5E+4	7.2E+4	7.0E+4	8.1E+4	11.5
Octacosane	1.5E+5	9.4E+4	1.0E+5	9.9E+4	9.8E+4	9.6E+4	9.5E+4	9.7E+4	1.0E+5	17.3

 # RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

Alternate Calibration Evaluation Summary

Maximum Allowable Average %RSD =	20.0
Calculated Average %RSD =	15.5

Initial Calibration - Detailed Report

Calibration ID:	CAL1210	**Instrument ID:**	GCQ
Method ID:	MJ410	**Column Name:**	RTX-5
		Calibration Fit:	Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
15151	C:\HPCHEM\1\DATA\091506P\0915004.D	09/15/2006 17:23	10/23/2006 09:51	10/23/2006 09:59
15152	C:\HPCHEM\1\DATA\091506P\0915005.D	09/15/2006 18:03	10/23/2006 09:51	10/23/2006 09:59
15153	C:\HPCHEM\1\DATA\091506P\0915006.D	09/15/2006 18:43	10/23/2006 09:51	10/23/2006 09:59
15154	C:\HPCHEM\1\DATA\091506P\0915007.D	09/15/2006 19:23	10/23/2006 09:51	10/23/2006 09:59
15155	C:\HPCHEM\1\DATA\091506P\0915008.D	09/15/2006 20:02	10/23/2006 09:51	10/23/2006 09:59
15156	C:\HPCHEM\1\DATA\091506P\0915009.D	09/15/2006 20:42	10/23/2006 09:52	10/23/2006 09:59
15157	C:\HPCHEM\1\DATA\091506P\0915010.D	09/15/2006 21:22	10/23/2006 09:52	10/23/2006 09:59
15158	C:\HPCHEM\1\DATA\091506P\0915011.D	09/15/2006 22:01	10/23/2006 09:52	10/23/2006 09:59

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
Gasoline Range Organics (C6-C12)		9.31E+4	2.96E+6	0.9996	1.2E+5

Response Factor Report GCQ

Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006

10/23/06

Calibration Files
1 =0915004.D 2 =0915005.D 3 =0915006.D
4 =0915007.D 5 =0915008.D 6 =0915009.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	H	GRO (c6-c12)	1.833	1.446	1.138	1.080	1.036	1.008	1.179	E5	26.21
2)	H	DRO (c13-c22)	1.020	1.048	1.070	1.026	0.971	0.946	0.984	E5	6.90
3)	H	HRO (c24-c36)	9.690	8.899	8.304	8.500	7.616	7.498	8.083	E4	11.53
4)	S	Octacosane	1.471	0.940	0.999	0.989	0.977	0.963	1.032	E5	17.27
5)	S	Triacontane	1.506	0.942	1.008	0.994	0.990	0.987	1.046	E5	17.86

(#) = Out of Range ### Number of calibration levels exceeded format ###

Calibration Status Report GCQ

Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:43:36 2006
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	2.50	0.00	C:\HPCHEM\1\DATA\091506P\0915004.D
2	2	5.00	0.00	C:\HPCHEM\1\DATA\091506P\0915005.D
3	3	25.00	0.00	C:\HPCHEM\1\DATA\091506P\0915006.D
4	4	50.00	0.00	C:\HPCHEM\1\DATA\091506P\0915007.D
5	5	75.00	0.00	C:\HPCHEM\1\DATA\091506P\0915008.D
6	6	125.00	0.00	C:\HPCHEM\1\DATA\091506P\0915009.D
7	7	150.00	0.00	C:\HPCHEM\1\DATA\091506P\0915010.D
8	8	300.00	0.00	C:\HPCHEM\1\DATA\091506P\0915011.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Oct 23 09:41 2006	Oct 23 09:32 19106	15 Sep 2006 5:23 pm
2	2	Oct 23 09:42 2006	Oct 23 09:33 19106	15 Sep 2006 6:03 pm
3	3	Oct 23 09:42 2006	Oct 23 09:30 19106	15 Sep 2006 6:43 pm
4	4	Oct 23 09:42 2006	Oct 23 09:30 19106	15 Sep 2006 7:23 pm
5	5	Oct 23 09:42 2006	Oct 23 09:30 19106	15 Sep 2006 8:02 pm
6	6	Oct 23 09:42 2006	Oct 23 09:31 19106	15 Sep 2006 8:42 pm
7	7	Oct 23 09:42 2006	Oct 23 09:31 19106	15 Sep 2006 9:22 pm
8	8	Oct 23 09:43 2006	Oct 23 09:40 19106	15 Sep 2006 10:01 pm

FPQ60915.M Mon Oct 23 09:47:44 2006

DATA ANALYSIS PARAMETERS

Method Name: C:\HPCHEM\1\METHODS\FPQ60915.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

FC6-36 (GRO/DRO/HRO) Calibration
Calibration Last Updated: Mon Oct 23 09:43:36 2006

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---
 1) GRO (c6-c12) ( )
Ret. Time 4.00 min., Extract & Integrate from 1.80 to 8.32 min.

Lvl	ID	Conc (mg/L)	Response
1		5.000	916308
2		10.000	1445742
3		50.000	5690760
4		100.000	10801162
5		500.000	51822184
6		1000.000	100755454

7	2500.000	240560814
8	5000.000	464865852

Curve Fit: Linear

---

2) DRO (c13 - c22) ( )

Ret. Time 13.00 min., Extract & Integrate from 9.02 to 16.85 min.

Lvl	ID	Conc (mg/L)	Response
1		5.000	509861
2		10.000	1048078
3		50.000	5348696
4		100.000	10263699
5		500.000	48525068
6		1000.000	94647702
7		2500.000	228582952
8		5000.000	438863699

Curve Fit: Avg. RF

---

3) HRO (c24 - c36) ( )

Ret. Time 20.00 min., Extract & Integrate from 17.73 to 24.92 min.

Lvl	ID	Conc (mg/L)	Response
1		5.000	484475
2		10.000	889906
3		50.000	4152010
4		100.000	8500258
5		500.000	38081406
6		1000.000	74984046
7		2500.000	179630063
8		5000.000	348383031

Curve Fit: Avg. RF

---

4) Octacosane ( )

Ret. Time 20.25 min., Extract & Integrate from 20.15 to 20.35 min.

Lvl	ID	Conc (mg/L)	Response
1		2.500	367809
2		5.000	470058
3		25.000	2496530
4		50.000	4944514
5		75.000	7329895
6		125.000	12042106
7		150.000	14295807
8		300.000	29020703

Curve Fit: Avg. RF

---

5) Triacontane ( )

Ret. Time 21.28 min., Extract & Integrate from 21.18 to 21.38 min.

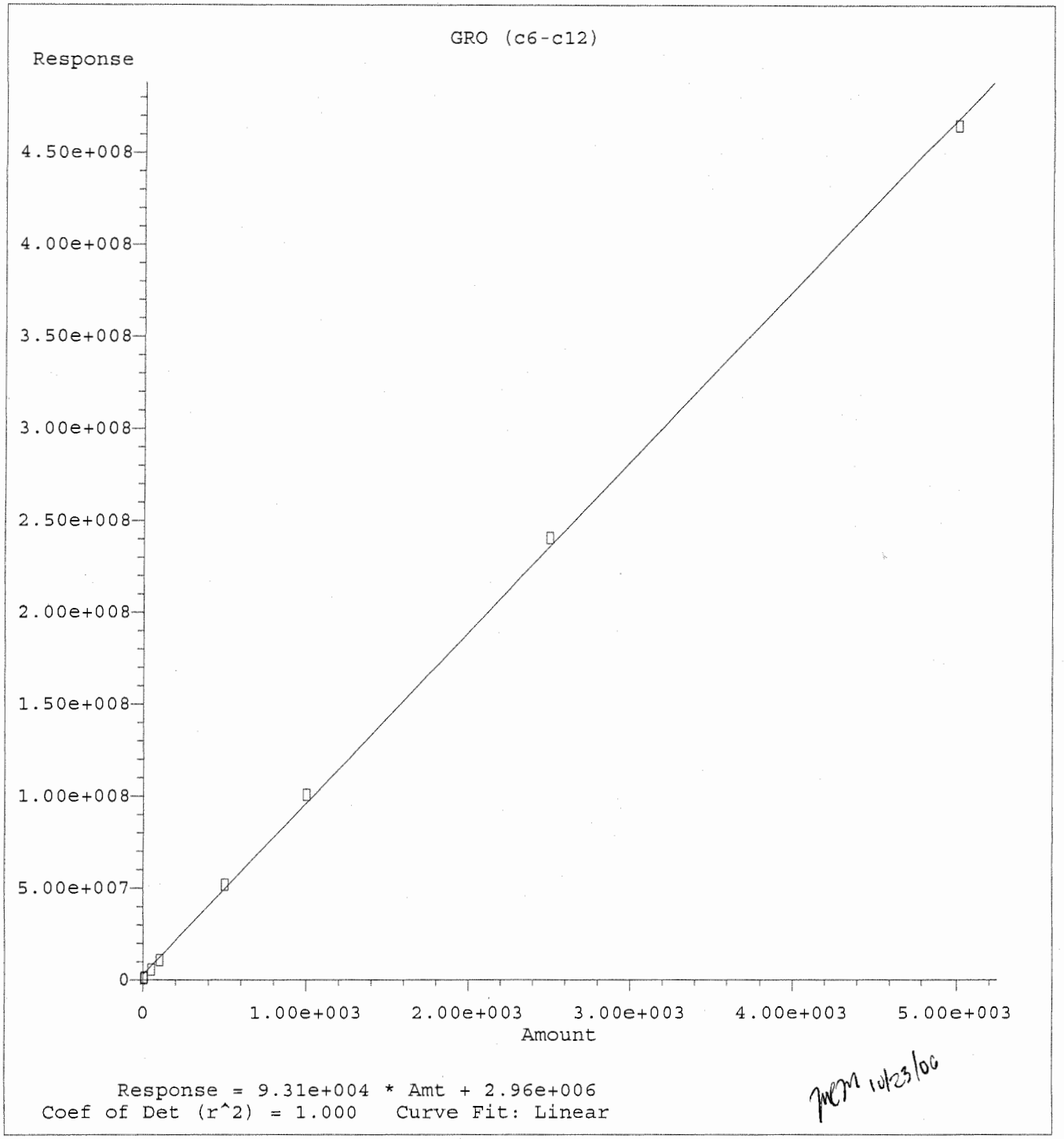
Lvl	ID	Conc (mg/L)	Response
1		2.500	376469
2		5.000	470957
3		25.000	2519521
4		50.000	4970625
5		75.000	7425435
6		125.000	12342832
7		150.000	14435807

8 300.000 29400386

Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Mon Oct 23 09:47:45 2006



JWCM 10/23/06

Method Name: C:\HPCHEM\1\METHODS\FPQ60915.M
Calibration Table Last Updated: Mon Oct 23 09:43:36 2006

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915001.D Vial: 1
Acq On : 15 Sep 2006 3:14 pm Operator: MCM
Sample : Instrument Blk (DCM) Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:29 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

jem 11/13/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4) S	Octacosane	20.25f	2914	0.028	mg/L
Spiked Amount	75.000	Recovery	=	0.04%	
5) S	Triacontane	21.26f	3656	0.035	mg/L
Spiked Amount	75.000	Recovery	=	0.05%	
	Target Compounds				
1) H	GRO (c6-c12)	4.00	728832	N.D.	mg/L
2) H	DRO (c13 - c22)	13.00	199987	2.032	mg/L
3) H	HRO (c24 - c36)	20.00	354165	5.012	mg/L
6) H	Total Petroleum Hydrocarbo	15.00	1153266	11.634	mg/L

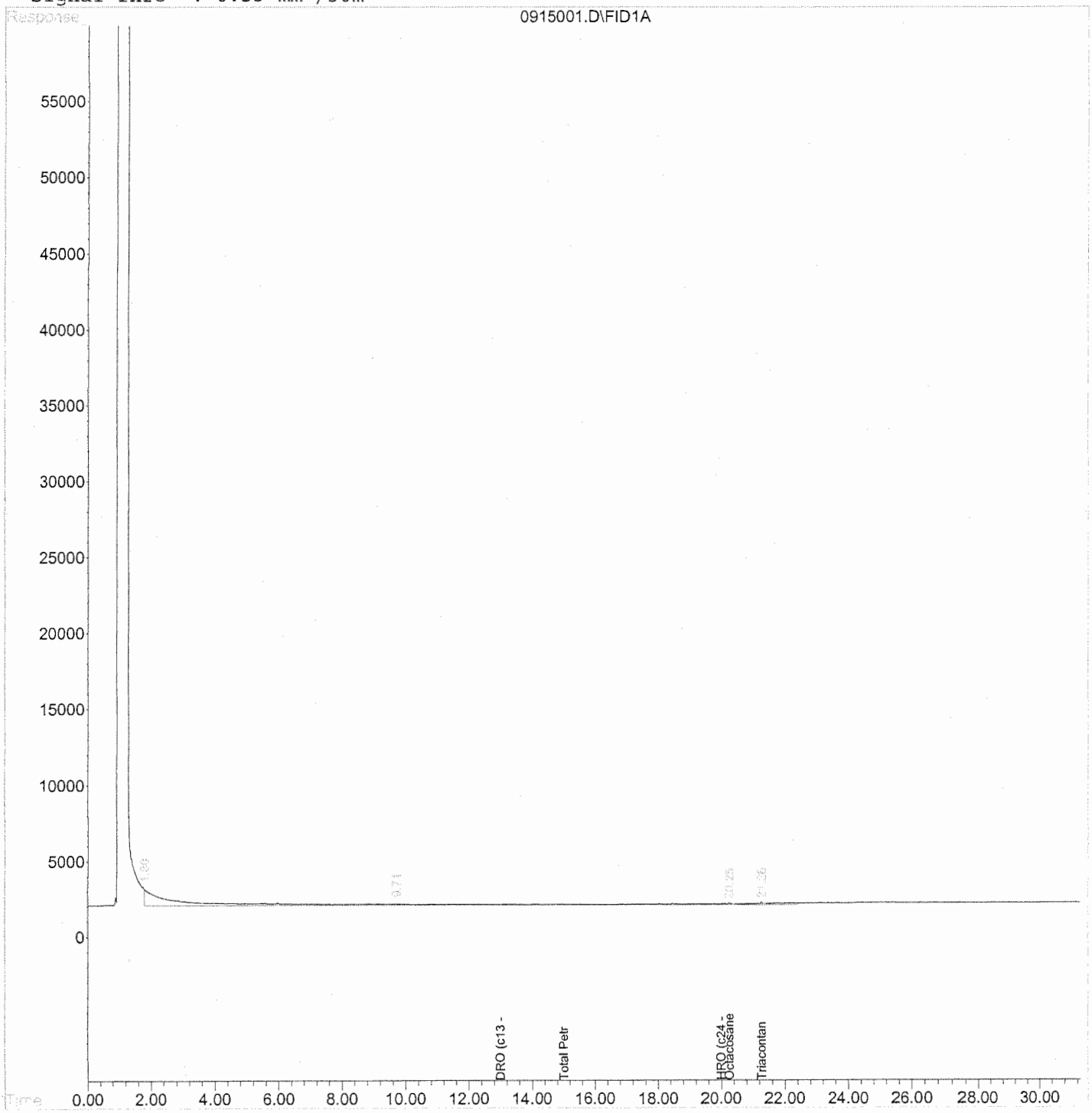
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915001.D Vial: 1
Acq On : 15 Sep 2006 3:14 pm Operator: MCM
Sample : Instrument Blk (DCM) Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:29 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915002.D Vial: 2
Acq On : 15 Sep 2006 3:54 pm Operator: MCM
Sample : RT Marker c6-c40 Inst : GCQ
Misc : 4-S-GC-17C-1 Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:30 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/23/06

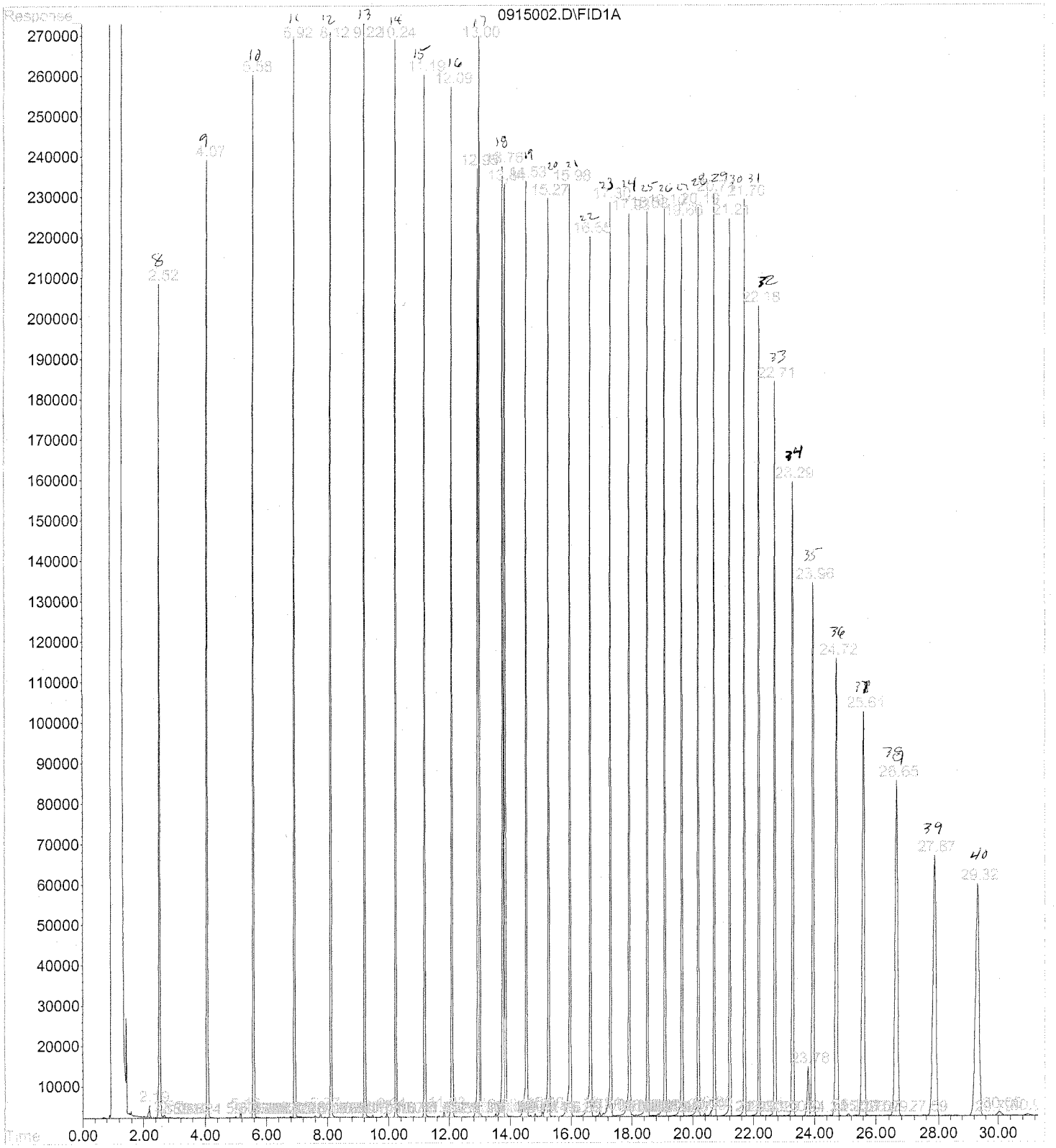
Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4)	S Octacosane	20.19	5153934	49.917	mg/L
Spiked Amount	75.000	Recovery =		66.56%	
5)	S Triacontane	21.21	5157458	49.297	mg/L
Spiked Amount	75.000	Recovery =		65.73%	
	Target Compounds				
1)	H GRO (c6-c12)	4.00	26862516	256.775	mg/L
2)	H DRO (c13 - c22)	13.00	65342233	663.967	mg/L
3)	H HRO (c24 - c36)	20.00	57489524	813.513	mg/L
6)	H Total Petroleum Hydrocarbo	15.00	134496928	1356.770	mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File : C:\HPCHEM\1\DATA\091506P\0915002.D
Operator : MCM
Acquired : 15 Sep 2006 3:54 pm using AcqMethod GCQFC.M
Instrument : GCQ
Sample Name: RT Marker c6-c40
Misc Info : 4-S-GC-17C-1
Vial Number: 2

GRO (c6-c12) = 1.8 min → 8.32 min.
DRO (c13-c22) = 9.02 min → 16.85 min.
HRO (c24-c36) = 17.73 min → 24.92 min.

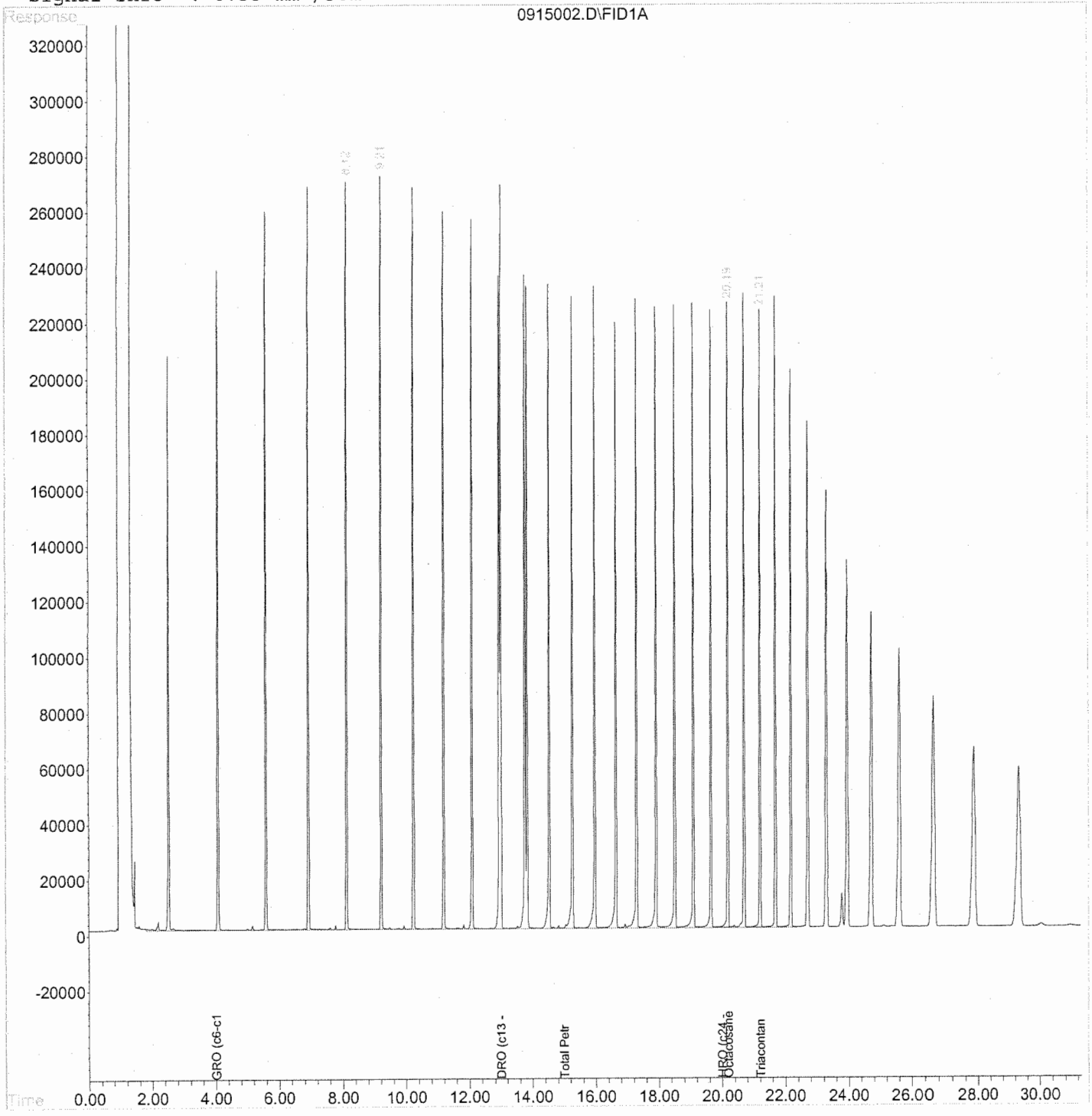


Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915002.D Vial: 2
Acq On : 15 Sep 2006 3:54 pm Operator: MCM
Sample : RT Marker c6-c40 Inst : GCQ
Misc : 4-S-GC-17C-1 Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:30 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915004.D Vial: 4
Acq On : 15 Sep 2006 5:23 pm Operator: MCM
Sample : 5ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64J Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:32 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:32:37 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JMCM 10/23/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	Octacosane	20.18	367809	3.562 mg/L
Spiked Amount	75.000	Recovery =		4.75%
5) S	Triacontane	21.21	376469	3.598 mg/L
Spiked Amount	75.000	Recovery =		4.80%
	Target Compounds			
1) H	GRO (c6-c12)	4.00	916308	7.771 mg/L
2) H	DRO (c13 - c22)	13.00	509861	5.181 mg/L
3) H	HRO (c24 - c36)	20.00	484475	6.856 mg/L
6) H	Total Petroleum Hydrocarbo	15.00	1886594	19.031 mg/L

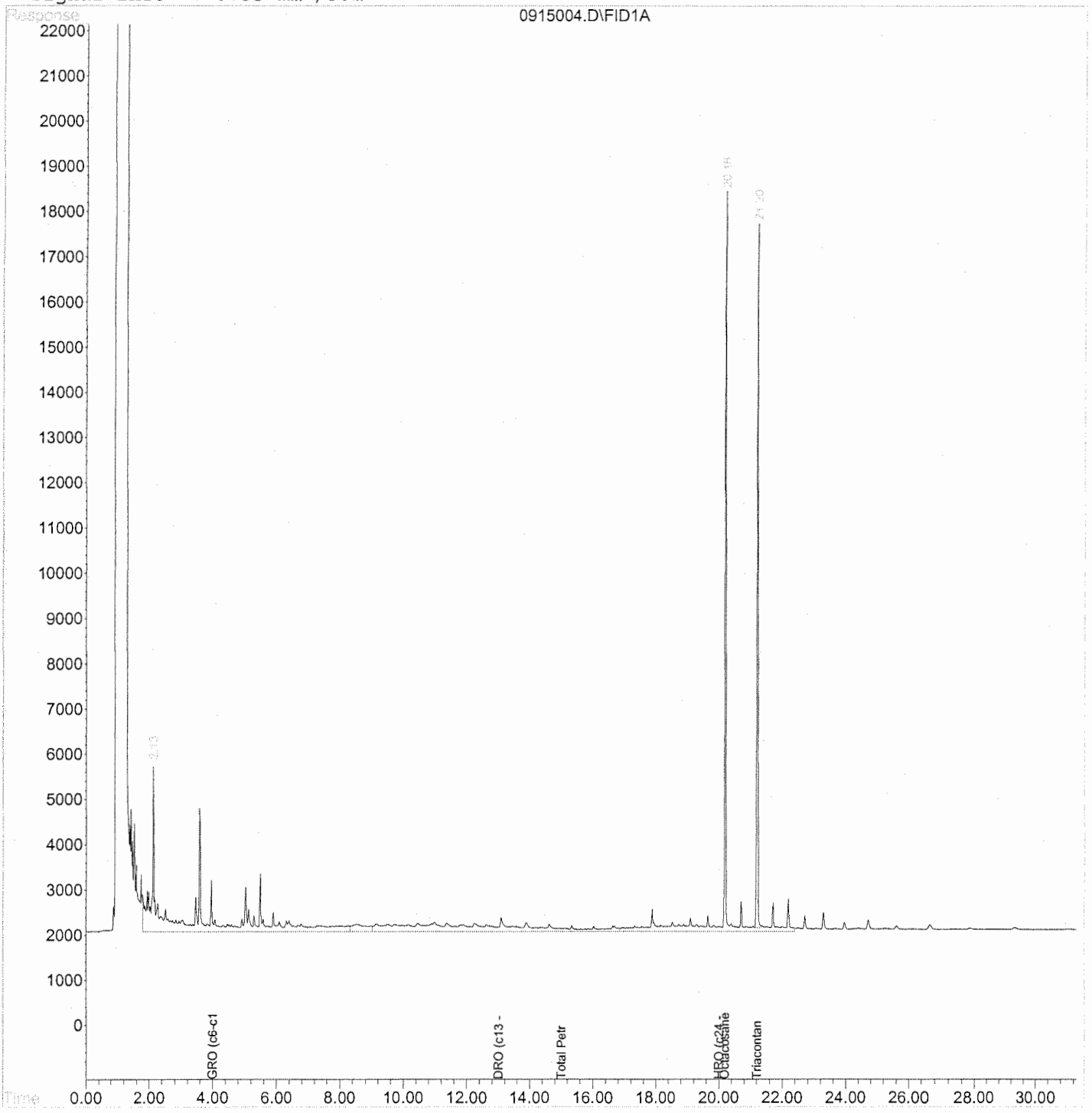
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915004.D Vial: 4
Acq On : 15 Sep 2006 5:23 pm Operator: MCM
Sample : 5ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64J Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:32 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:32:37 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915005.D Vial: 5
Acq On : 15 Sep 2006 6:03 pm Operator: MCM
Sample : 10ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64K Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:33 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:32:37 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/23/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	Octacosane	20.18	470058	4.553 mg/L
Spiked Amount	75.000	Recovery	=	6.07%
5) S	Triacontane	21.20	470957	4.502 mg/L
Spiked Amount	75.000	Recovery	=	6.00%
	Target Compounds			
1) H	GRO (c6-c12)	4.00	1445742	12.262 mg/L
2) H	DRO (c13 - c22)	13.00	1048078	10.650 mg/L
3) H	HRO (c24 - c36)	20.00	889906	12.593 mg/L
6) H	Total Petroleum Hydrocarbo	15.00	3383881	34.136 mg/L

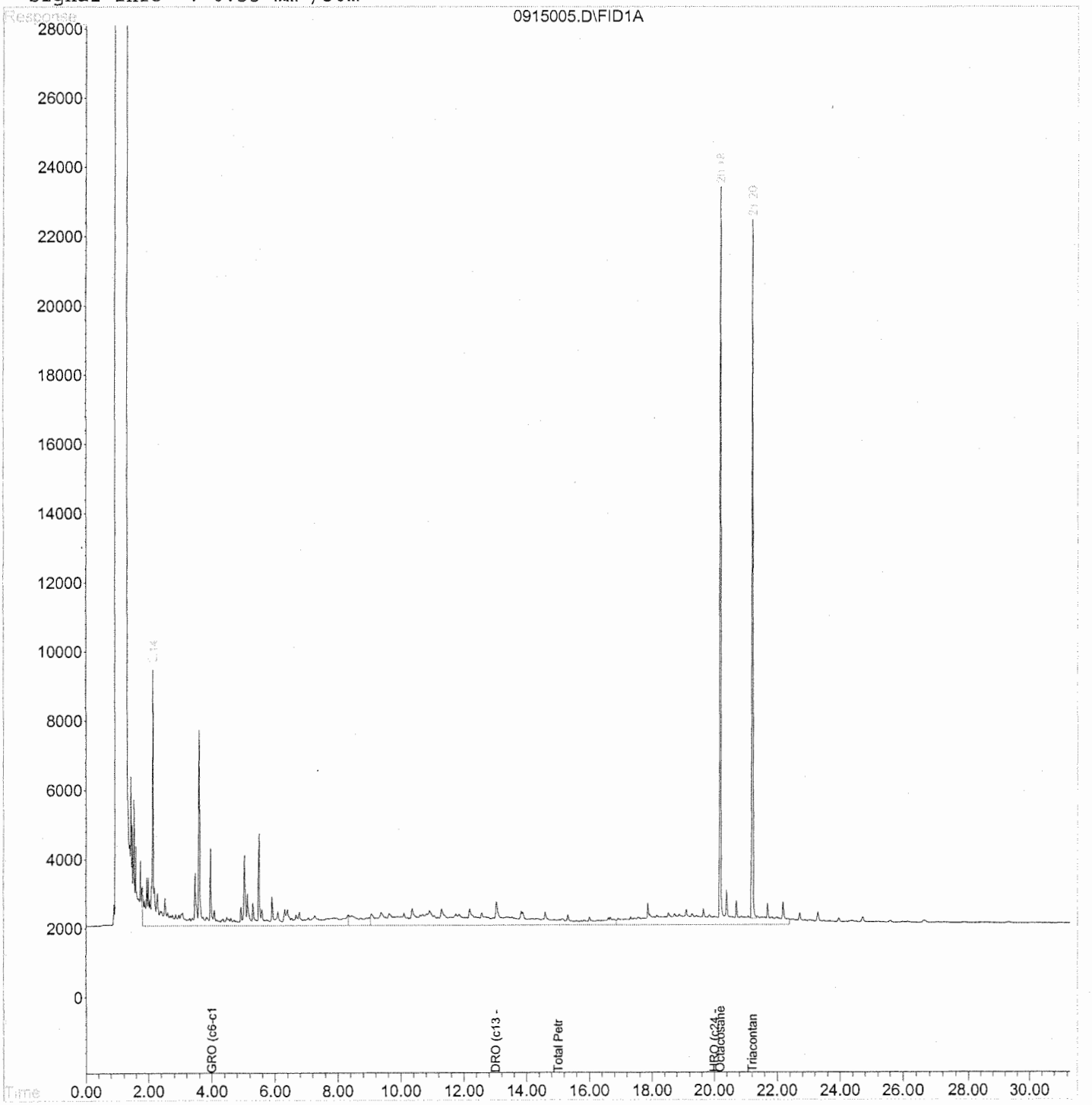
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915005.D Vial: 5
Acq On : 15 Sep 2006 6:03 pm Operator: MCM
Sample : 10ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64K Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:33 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:32:37 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915006.D Vial: 6
Acq On : 15 Sep 2006 6:43 pm Operator: MCM
Sample : 50ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64D Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:30 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

jwem 10/31/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S Octacosane	20.18	2496530	24.179 mg/L
Spiked Amount	75.000	Recovery =		32.24%
5)	S Triacontane	21.20	2519521	24.083 mg/L
Spiked Amount	75.000	Recovery =		32.11%
	Target Compounds			
1)	H GRO (c6-c12)	4.00	5690760	29.347 mg/L
2)	H DRO (c13 - c22)	13.00	5348696	54.350 mg/L
3)	H HRO (c24 - c36)	20.00	4152010	58.754 mg/L
6)	H Total Petroleum Hydrocarbo	15.00	15297363	154.316 mg/L

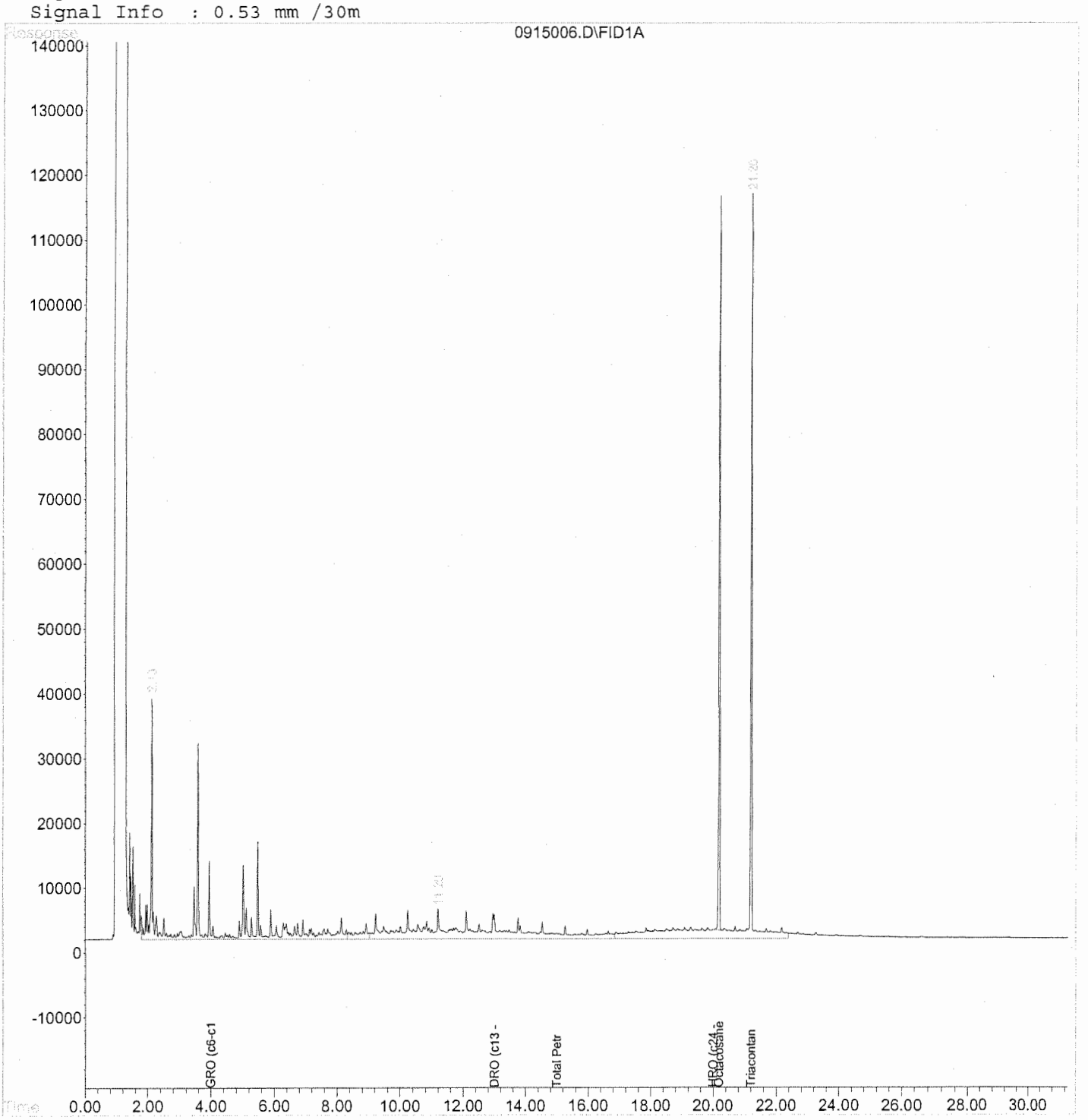
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915006.D Vial: 6
Acq On : 15 Sep 2006 6:43 pm Operator: MCM
Sample : 50ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64D Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:30 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915007.D Vial: 7
Acq On : 15 Sep 2006 7:23 pm Operator: MCM
Sample : 100ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64E Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:30 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4)	S Octacosane	20.19	4944514	47.889	mg/L
Spiked Amount	75.000	Recovery =		63.85%	
5)	S Triacontane	21.21	4970625	47.511	mg/L
Spiked Amount	75.000	Recovery =		63.35%	
	Target Compounds				
1)	H GRO (c6-c12)	4.00	10801162	84.243	mg/L
2)	H DRO (c13 - c22)	13.00	10263699	104.293	mg/L
3)	H HRO (c24 - c36)	20.00	8500258	120.284	mg/L
6)	H Total Petroleum Hydrocarbo	15.00	29573643	298.331	mg/L

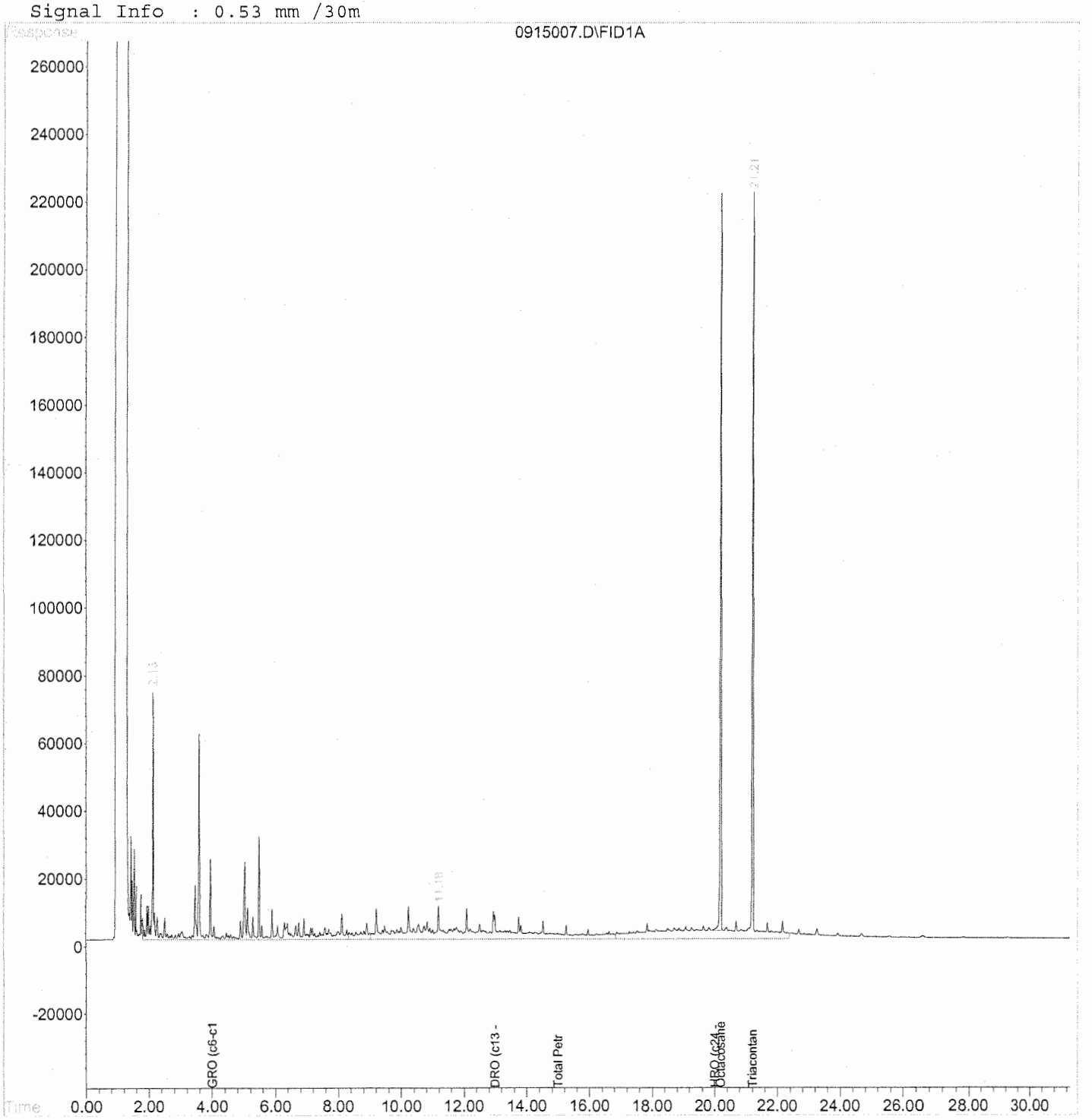
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915007.D Vial: 7
Acq On : 15 Sep 2006 7:23 pm Operator: MCM
Sample : 100ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64E Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:30 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915008.D Vial: 8
Acq On : 15 Sep 2006 8:02 pm Operator: MCM
Sample : 500ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64F Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:30 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JMCM 10/25/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4)	S Octacosane	20.20	7329895	70.992	mg/L
Spiked Amount	75.000	Recovery	=	94.66%	
5)	S Triacontane	21.22	7425435	70.975	mg/L
Spiked Amount	75.000	Recovery	=	94.63%	
	Target Compounds				
1)	H GRO (c6-c12)	4.00	51822184	524.894	mg/L
2)	H DRO (c13 - c22)	13.00	48525068	493.082	mg/L
3)	H HRO (c24 - c36)	20.00	38081406	538.876	mg/L
6)	H Total Petroleum Hydrocarbo	15.00	139145507	1403.664	mg/L

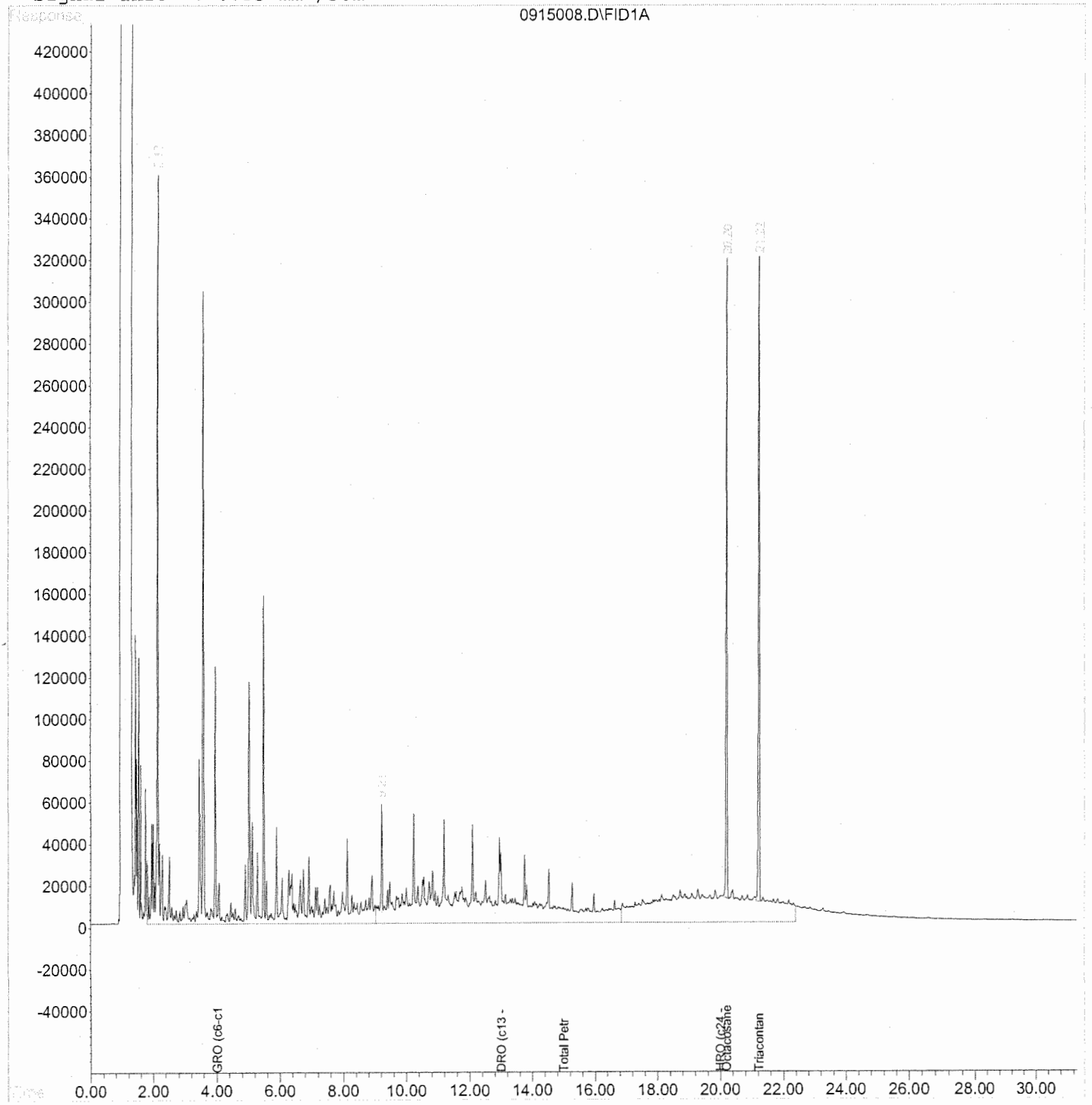
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915008.D Vial: 8
Acq On : 15 Sep 2006 8:02 pm Operator: MCM
Sample : 500ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64F Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:30 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915009.D Vial: 9
Acq On : 15 Sep 2006 8:42 pm Operator: MCM
Sample : 1000ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64G Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:31 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JMCM 10/23/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4)	S Octacosane	20.21f	12042106	116.630	mg/L
Spiked Amount	75.000	Recovery =		155.51%	
5)	S Triacontane	21.23f	12342832	117.978	mg/L
Spiked Amount	75.000	Recovery =		157.30%	
	Target Compounds				
1)	H GRO (c6-c12)	4.00	100755454	1050.538	mg/L
2)	H DRO (c13 - c22)	13.00	94647702	961.751	mg/L
3)	H HRO (c24 - c36)	20.00	74984046	1061.072	mg/L
6)	H Total Petroleum Hydrocarbo	15.00	271555687	2739.383	mg/L

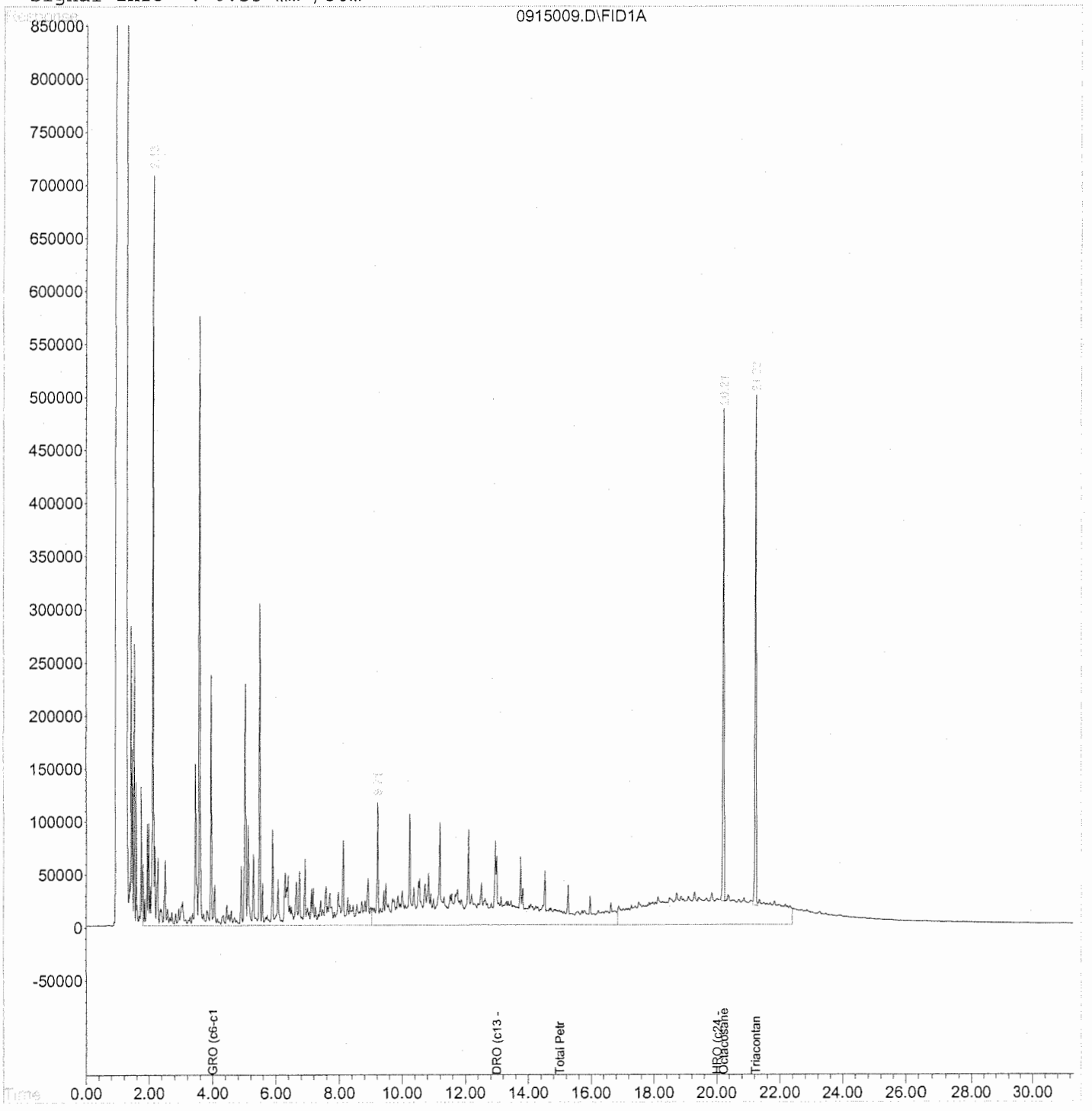
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915009.D Vial: 9
Acq On : 15 Sep 2006 8:42 pm Operator: MCM
Sample : 1000ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64G Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:31 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915010.D Vial: 10
Acq On : 15 Sep 2006 9:22 pm Operator: MCM
Sample : 2500ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64H Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:31 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JWCM 10/23/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4) S	Octacosane	20.22f	14295807	138.458	mg/L
Spiked Amount	75.000	Recovery =		184.61%	
5) S	Triacontane	21.24f	14435807	137.983	mg/L
Spiked Amount	75.000	Recovery =		183.98%	
	Target Compounds				
1) H	GRO (c6-c12)	4.00	240560814	2552.336	mg/L
2) H	DRO (c13 - c22)	13.00	228582952	2322.718	mg/L
3) H	HRO (c24 - c36)	20.00	179630063	2541.879	mg/L
6) H	Total Petroleum Hydrocarbo	15.00	651584874	6573.019	mg/L

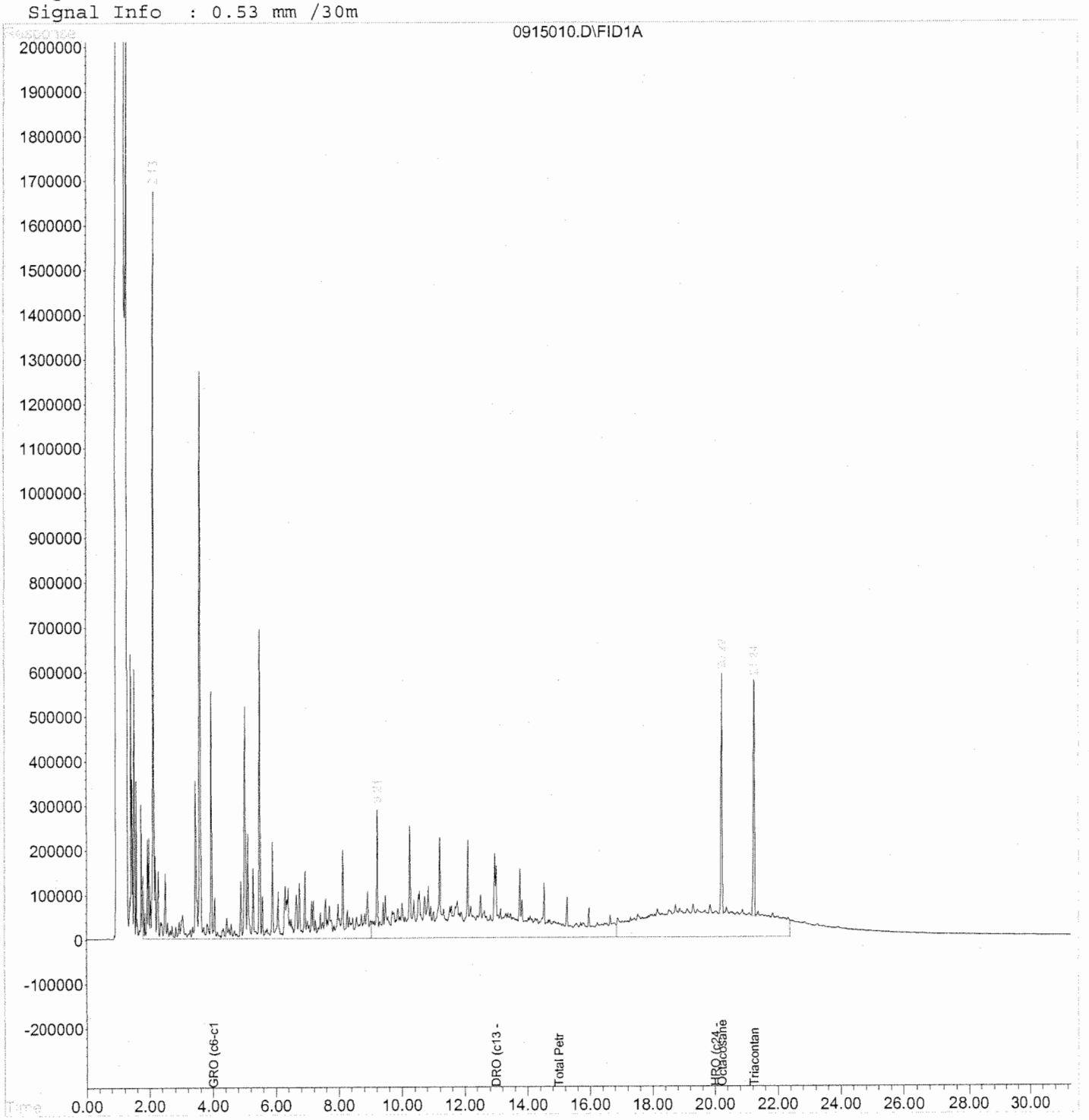
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915010.D Vial: 10
Acq On : 15 Sep 2006 9:22 pm Operator: MCM
Sample : 2500ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-64H Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:31 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:26:02 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915011.D Vial: 11
Acq On : 15 Sep 2006 10:01 pm Operator: MCM
Sample : 5000ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-72A Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:40 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:40:08 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JMcM 10/25/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	Octacosane	20.26	29020703	281.071 mg/L
Spiked Amount	75.000	Recovery	=	374.76%
5) S	Triacontane	21.28	29400386	281.021 mg/L
Spiked Amount	75.000	Recovery	=	374.69%
	Target Compounds			
1) H	GRO (c6-c12)	4.00	464865852	3942.632 mg/L
2) H	DRO (c13 - c22)	13.00	438863699	4459.461 mg/L
3) H	HRO (c24 - c36)	20.00	348383031	4929.841 mg/L
6) H	Total Petroleum Hydrocarbo	15.00	1256286036	12673.086 mg/L

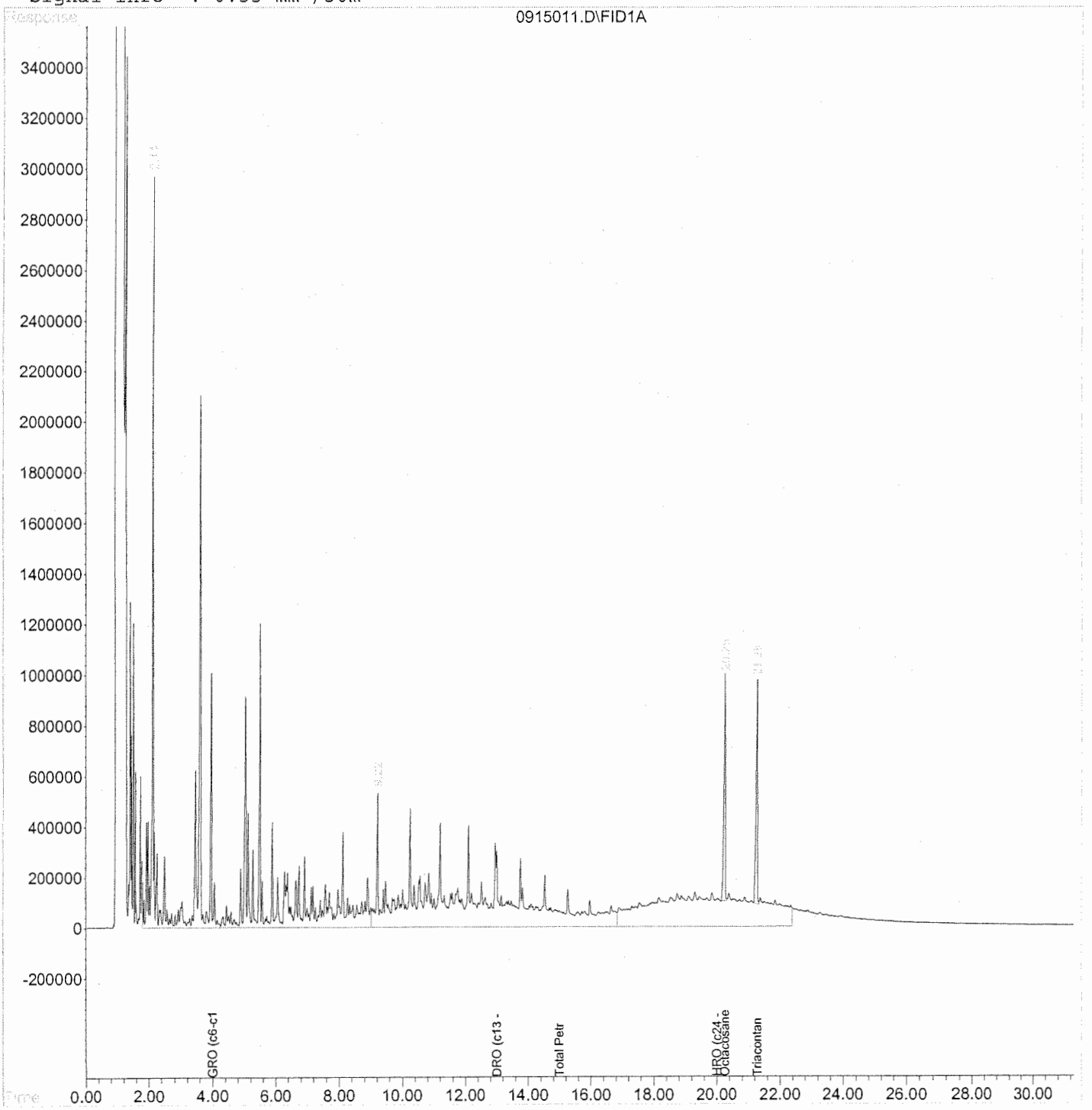
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915011.D Vial: 11
Acq On : 15 Sep 2006 10:01 pm Operator: MCM
Sample : 5000ppm Gas/Dsl/Oil Std. Inst : GCQ
Misc : 22-GC-72A Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:40 2006 Quant Results File: FPQTEMP.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQTEMP.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:40:08 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Second Source Calibration Verification Summary

CalibrationID: CAL1210

Method ID: MJ410

DataFile Location: C:\HPCHEM\1\DATA\091506P\0915015.D

Units: mg/Kg

Column: RTX-5

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Gasoline Range Organics (C6-C12)	15159	Linear	30				1000.00	932.0	-6.8
Diesel Range Organics (C13-C22)	15159	AverageRF	30	9.8E+4	8.5E+4	-13.9	1000.00	860.8	
Heavy Range Organics (C24-C36)	15159	AverageRF	30	8.1E+4	6.7E+4	-16.8	1000.00	831.7	

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	30.0
Calculated Average %D =	12.5

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\091506P\0915015.D Vial: 13
Acq On : 16 Sep 2006 12:39 am Operator: MCM
Sample : 1000ppm Gas/Dsl/Oil ICV Std. Inst : GCQ
Misc : 22-GC-64L Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:43:36 2006
Response via : Multiple Level Calibration

JMCM 10/23/06

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
1	H	GRO (c6-c12)	117.907	89.724	E3	~~23.9~~ LR	89	0.00
2	H	DRO (c13 - c22)	98.412	84.717	E3	13.9	90	0.00
3	H	HRO (c24 - c36)	80.825	67.224	E3	16.8	90	0.00
4	S	Octacosane	103.250	85.767	E3	16.9	89	-0.05
5	S	Triacontane	104.620	86.326	E3	17.5	87	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
0915015.D FPQ60915.M Mon Oct 23 09:47:02 2006 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\091506P\0915015.D Vial: 13
Acq On : 16 Sep 2006 12:39 am Operator: MCM
Sample : 1000ppm Gas/Dsl/Oil ICV Std. Inst : GCQ
Misc : 22-GC-64L Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:46 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:43:36 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JMcM 10/23/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.21	10720869	103.835 mg/L
Spiked Amount 75.000	Recovery =		138.45%
5) S Triacontane	21.23	10790730	103.142 mg/L
Spiked Amount 75.000	Recovery =		137.52%
Target Compounds			
1) H GRO (c6-c12)	4.00	89723700	932.034 mg/L
2) H DRO (c13 - c22)	13.00	84717098	860.843 mg/L
3) H HRO (c24 - c36)	20.00	67224076	831.719 mg/L

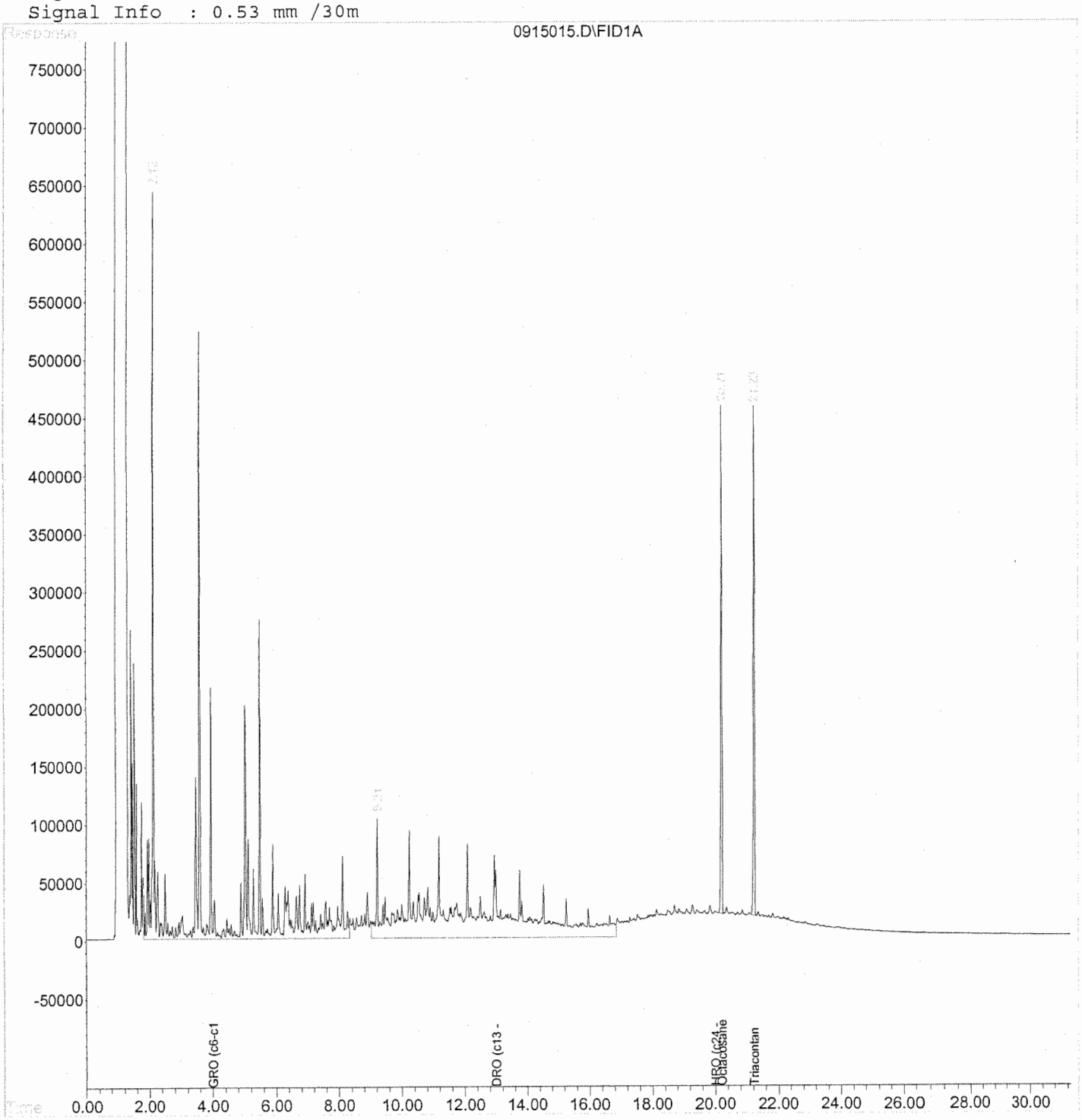
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091506P\0915015.D Vial: 13
Acq On : 16 Sep 2006 12:39 am Operator: MCM
Sample : 1000ppm Gas/Dsl/Oil ICV Std. Inst : GCQ
Misc : 22-GC-64L Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 9:46 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:43:36 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



QC Sample Data

(Batch ID.: LWG0600916)

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600917	**Prep Lot:**	DWG0600916	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	75192	**Prep Date:**	10/25/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ411
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 01:07	**Quant Date:**	10/26/2006 10:21	**Vial:**	18
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0600916-3			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	7134718	69.10	92	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			454642**m**		0.50	U	
Diesel Range Organics (C13-C22	13.00		215775**m**	2.19	0.44	U	
Heavy Range Organics (C24-C3	20.00		334114**m**	4.13	0.50	U	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual iutegration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025024.D Vial: 18
Acq On : 26 Oct 2006 1:07 am Operator: MCM
Sample : mb 10/25/06 wtr Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MEM 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16	7134718	69.102 mg/L
Spiked Amount 75.000	Recovery =		92.14%
5) S Triacontane	21.18f	7065013	67.530 mg/L
Spiked Amount 75.000	Recovery =		90.04%
Target Compounds			
1) H GRO (c6-c12)	4.00	454642	N.D. mg/L
2) H DRO (c13-c22)	13.00	215775	2.193 mg/L
3) H HRO (c24-c36)	20.00	334114	4.134 mg/L

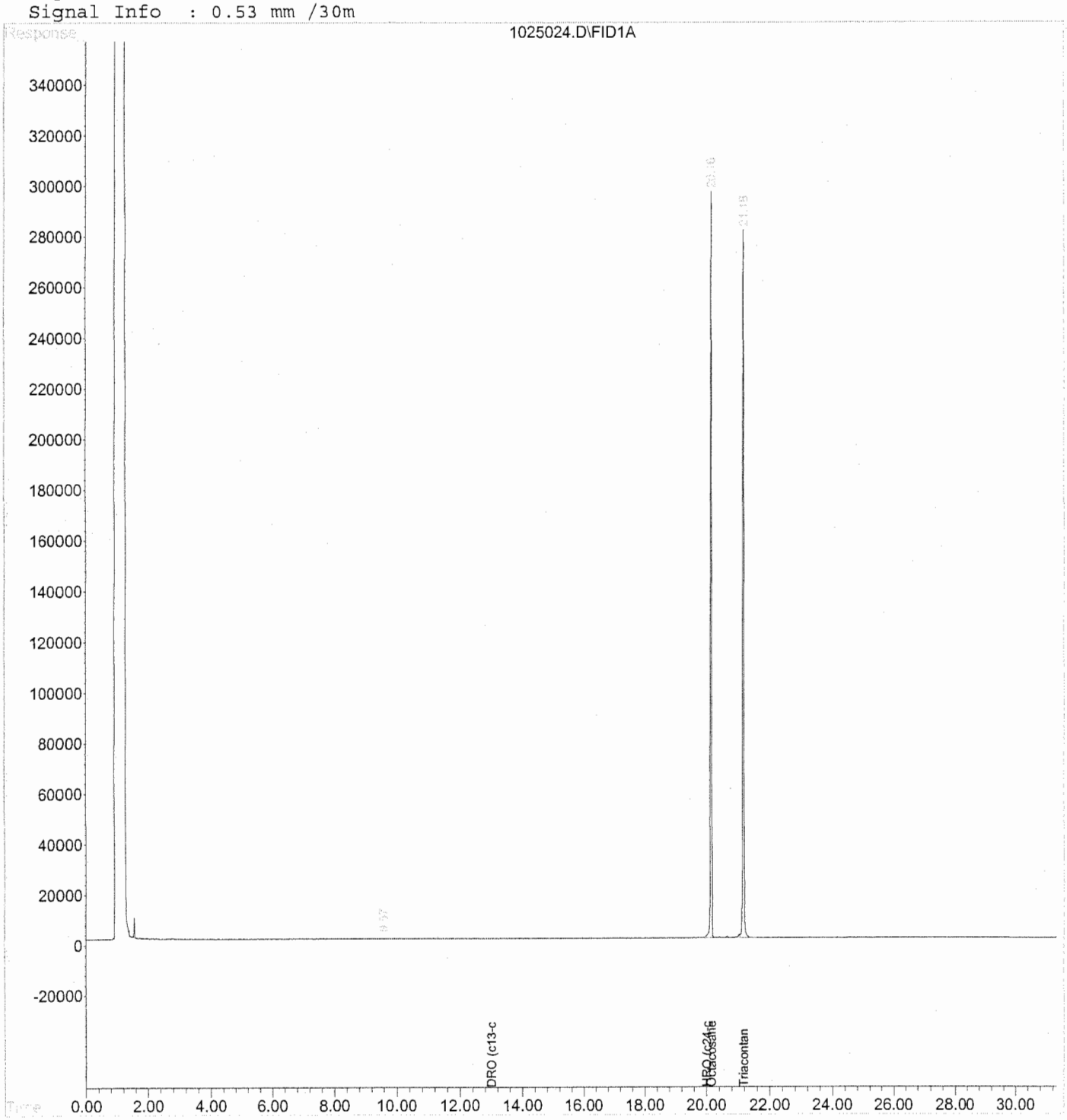
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025024.D Vial: 18
Acq On : 26 Oct 2006 1:07 am Operator: MCM
Sample : mb 10/25/06 wtr Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600917	**Prep Lot:**	DWG0600916	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	75190	**Prep Date:**	10/25/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025025.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 01:47	**Quant Date:**	10/26/2006 10:21	**Vial:**	19
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0600916-1			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	6991204	67.71	90	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		5056710**m**	22.54	2.25		
Diesel Range Organics (C13-C22	13.00		21591535**m**	219.40	21.9		
Heavy Range Organics (C24-C3	20.00		445565**m**	5.51	0.551	J	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, bnt below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidenee of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-clution

Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1401

Data File:	C:\HPCHEM\1\DATA\102506S\1025025.D	**Instrument:**	GCQ
Lab ID:	DWG0600916-1	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	mg/L
Prod Code:	8015B	**Acqu Date:**	10/26/2006 01:47
Matrix:	WATER	**Quant Date:**	10/26/2006 10:21

Duplicate Lab Control Spike Information

Data File:	C:\HPCHEM\1\DATA\102506S\1025026.D	**Instrument:**	GCQ
Lab ID:	DWG0600916-2	**Dilution:**	1
Client ID:	Duplicate Lab Control Sample	**Units:**	mg/L
Prod Code:	8015B	**Acqu Date:**	10/26/2006 02:26
Matrix:	WATER	**Quant Date:**	10/26/2006 10:21

	LCS			DLCS					
Parameter Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Diesel Range Organics (C13-C	21.9	30.0	73	22.8	30.0	76	50-130	4	25

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025025.D Vial: 19
Acq On : 26 Oct 2006 1:47 am Operator: MCM
Sample : lcs 10/23/06 wtr Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

mcm 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16	6991204	67.712 mg/L
Spiked Amount 75.000	Recovery =		90.28%
5) S Triacontane	21.18f	6893670	65.892 mg/L
Spiked Amount 75.000	Recovery =		87.86%
Target Compounds			
1) H GRO (c6-c12)	4.00	5056710	22.536 mg/L
2) H DRO (c13-c22)	13.00	21591535	219.400 mg/L
3) H HRO (c24-c36)	20.00	445565	5.513 mg/L

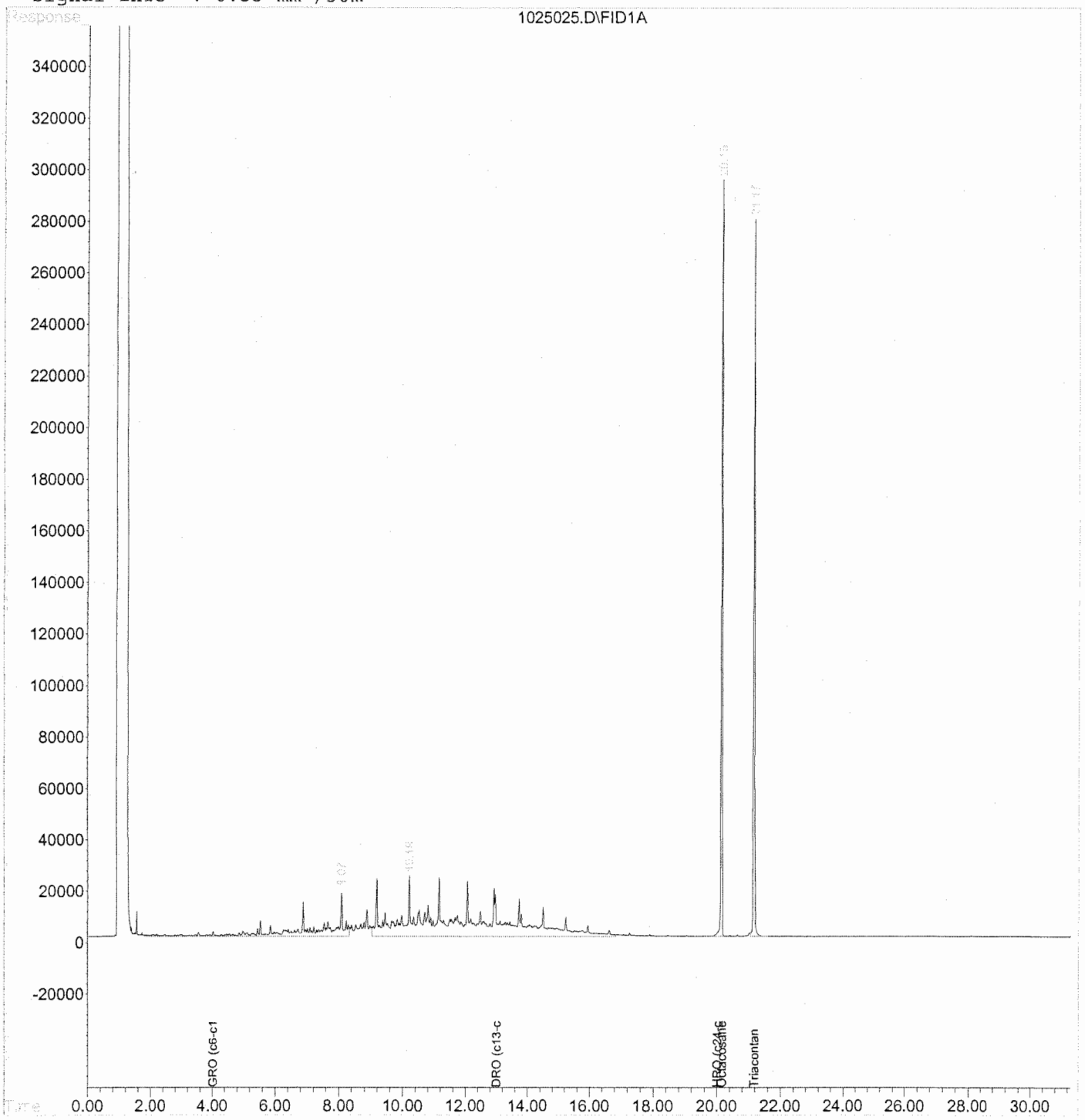
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025025.D Vial: 19
Acq On : 26 Oct 2006 1:47 am Operator: MCM
Sample : lcs 10/23/06 wtr Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600917	**Prep Lot:**	DWG0600916	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	75191	**Prep Date:**	10/25/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025026.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 02:26	**Quant Date:**	10/26/2006 10:21	**Vial:**	20
Run Type:	DLCS			**Dilution:**	1.0
Lab ID:	DWG0600916-2			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	7338196	71.07	95	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		5206006**m**	24.14	2.41		
Diesel Range Organics (C13-C22	13.00		22391713**m**	227.53	22.8		
Heavy Range Organics (C24-C3	20.00		455629**m**	5.64	0.564	J	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte dctected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025026.D Vial: 20
Acq On : 26 Oct 2006 2:26 am Operator: MCM
Sample : dlcs 10/23/06 wtr Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

mcp 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16	7338196	71.072 mg/L
Spiked Amount 75.000	Recovery =		94.76%
5) S Triacontane	21.18	7242145	69.223 mg/L
Spiked Amount 75.000	Recovery =		92.30%
Target Compounds			
1) H GRO (c6-c12)	4.00	5206006	24.140 mg/L
2) H DRO (c13-c22)	13.00	22391713	227.531 mg/L
3) H HRO (c24-c36)	20.00	455629	5.637 mg/L

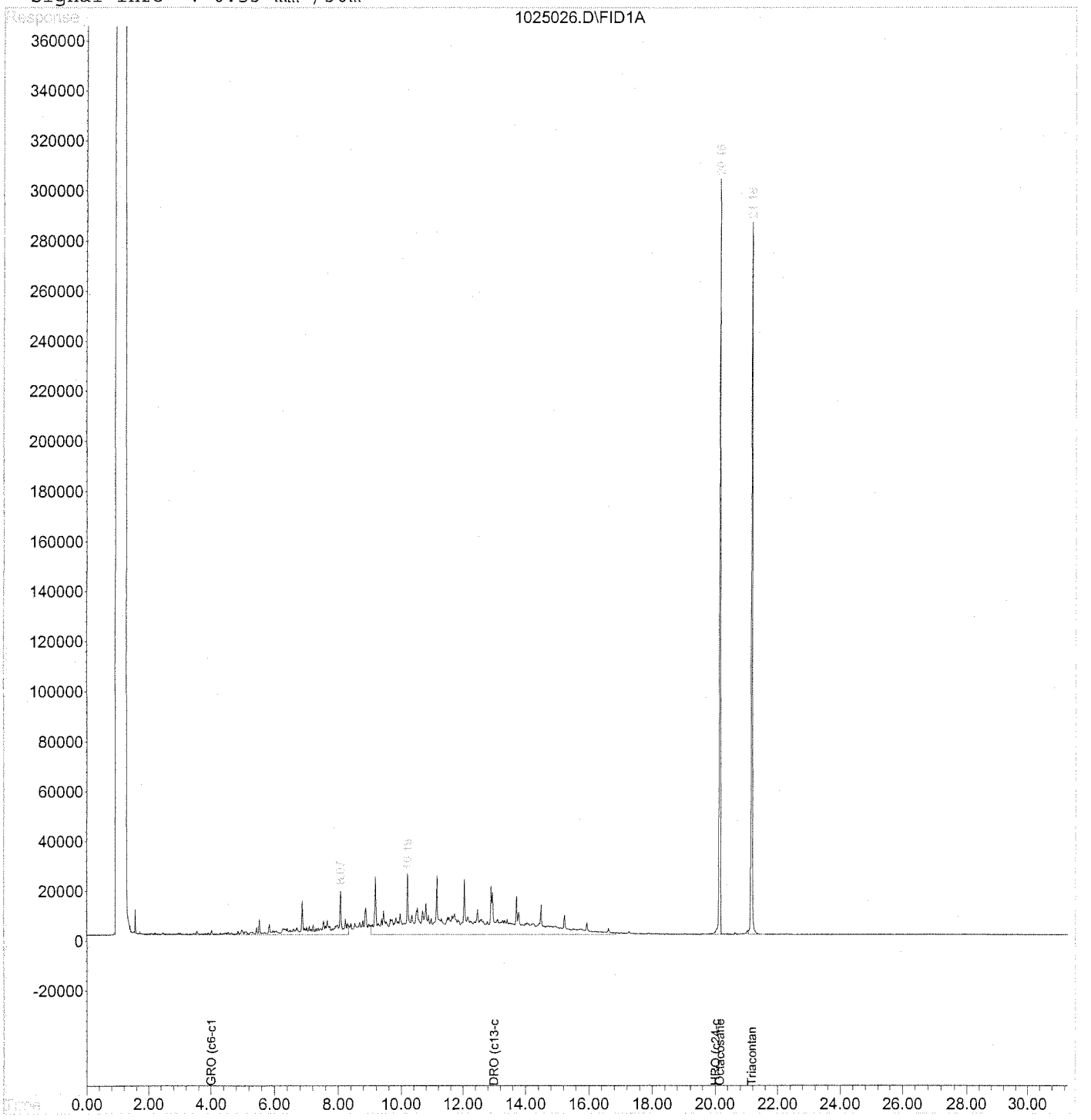
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025026.D Vial: 20
Acq On : 26 Oct 2006 2:26 am Operator: MCM
Sample : dlcs 10/23/06 wtr Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



QC Sample Data

(Batch ID.: LWG0600919)

Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600921	**Prep Lot:**	DWG0600919	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3550B Micro		
Prep Ref:	75208	**Prep Date:**	10/23/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ410
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102606\1026004.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 16:58	**Quant Date:**	10/27/2006 08:40	**Vial:**	4
Run Type:	MB			**Dilution:**	1.0
Lab ID:	DWG0600919-4			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	6231270	60.35	80	40-150	OK	

Target Compounds

Final Conc. Units: mg/KgDry

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			386044**m**		3.3	U	
Diesel Range Organics (C13-C22	13.00		79378**m**	0.8070	5.4	U	
Heavy Range Organics (C24-C3	20.00		217736**m**	2.69	5.5	U	

Prep Amount:	10.0 g	**Dilution:**	1.0
Prep Final Vol:	10 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026004.D Vial: 4
Acq On : 26 Oct 2006 4:58 pm Operator: MCM
Sample : mb 10/23/06 soil Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JLCM 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16f	6231270	60.352 mg/L
Spiked Amount 75.000	Recovery =		80.47%
5) S Triacontane	21.18f	6153401	58.817 mg/L
Spiked Amount 75.000	Recovery =		78.42%
Target Compounds			
1) H GRO (c6-c12)	4.00	386044	N.D. mg/L
2) H DRO (c13-c22)	13.00	79378	0.807 mg/L
3) H HRO (c24-c36)	20.00	217736	2.694 mg/L

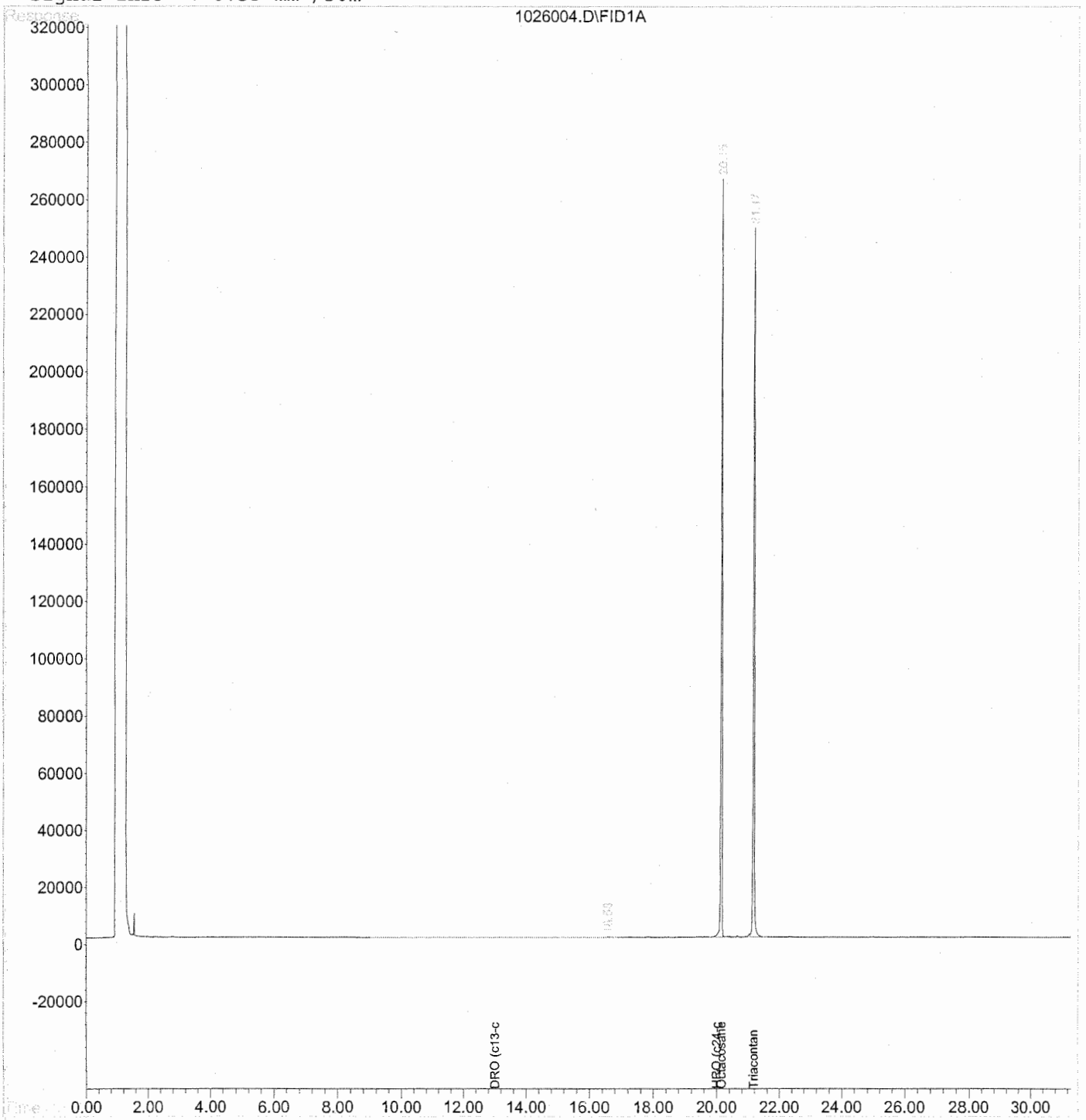
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102606\1026004.D Vial: 4
Acq On : 26 Oct 2006 4:58 pm Operator: MCM
Sample : mb 10/23/06 soil Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600921	**Prep Lot:**	DWG0600919	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3550B Micro		
Prep Ref:	75207	**Prep Date:**	10/23/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ410
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102606\1026004.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102606\1026005.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 17:38	**Quant Date:**	10/27/2006 08:40	**Vial:**	5
Run Type:	LCS			**Dilution:**	1.0
Lab ID:	DWG0600919-3			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	6540532	63.35	84	40-150	OK	

Target Compounds

Final Conc. Units: mg/KgDry

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		5927680**m**	31.89	31.9		
Diesel Range Organics (C13-C22	13.00		25387548**m**	257.97	258		
Heavy Range Organics (C24-C3	20.00		382706**m**	4.74	4.74	J	

Prep Amount:	10.0 g	**Dilution:**	1.0
Prep Final Vol:	10 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Lab Control Spike Summary Report

Lab Control Spike Information ***ListJoinID :*** LJ1402

Data File:	C:\HPCHEM\1\DATA\102606\1026005.D	**Instrument:**	GCQ
Lab ID:	DWG0600919-3	**Dilution:**	1
Client ID:	Lab Control Sample	**Units:**	mg/Kg
Prod Code:	8015B	**Acqu Date:**	10/26/2006 17:38
Matrix:	SOIL	**Quant Date:**	10/27/2006 08:40

	Lab Control Spike			%Rec
Parameter Name	**Result**	**Expected**	**%Rec**	**Limits**
Diesel Range Organics (C13-(	258	300	86	50-140

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026005.D Vial: 5
Acq On : 26 Oct 2006 5:38 pm Operator: MCM
Sample : lcs 10/23/06 soil Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

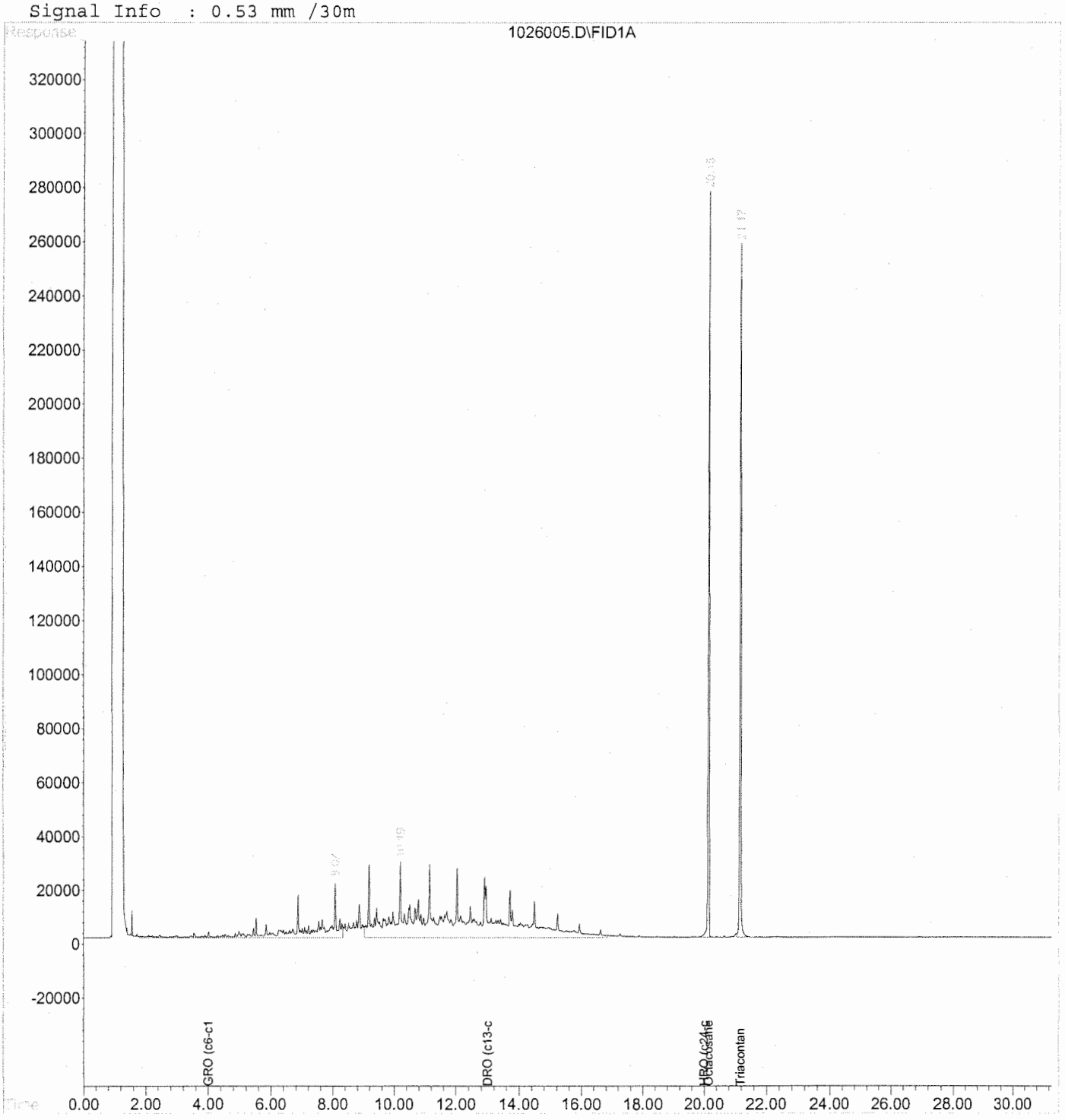
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16f	6540532	63.347 mg/L
Spiked Amount 75.000	Recovery =		84.46%
5) S Triacontane	21.18f	6439835	61.554 mg/L
Spiked Amount 75.000	Recovery =		82.07%
Target Compounds			
1) H GRO (c6-c12)	4.00	5927680	31.892 mg/L
2) H DRO (c13-c22)	13.00	25387548	257.973 mg/L
3) H HRO (c24-c36)	20.00	382706	4.735 mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\102606\1026005.D Vial: 5
Acq On : 26 Oct 2006 5:38 pm Operator: MCM
Sample : lcs 10/23/06 soil Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600921	**Prep Lot:**	DWG0600919	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3550B Micro		
Prep Ref:	75205	**Prep Date:**	10/23/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ410
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102606\1026004.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102606\1026008.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 19:37	**Quant Date:**	10/27/2006 08:40	**Vial:**	8
Run Type:	MS			**Dilution:**	1.0
Lab ID:	DWG0600919-1 -- D0601625-001MS			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.15	-0.01	6309481	61.11	81	40-150	OK	

Target Compounds

Final Conc. Units: mg/KgDry

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		5595708**m**	28.33	28.3		
Diesel Range Organics (C13-C22	13.00		23963038**m**	243.50	243		
Heavy Range Organics (C24-C3	20.00		378642**m**	4.69	4.69	J	

Prep Amount:	10.0 g	**Dilution:**	1.0
Prep Final Vol:	10 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Matrix Spike Summary Report

Matrix Spike Information ***ListJoinID :*** LJ1402

Data File:	C:\HPCHEM\1\DATA\102606\1026008.D	**Instrument:**	GCQ
Lab ID:	DWG0600919-1	**Dilution:**	1.00
Client ID:	Matrix Spike	**Units:**	mg/Kg
Prod Code:	8015B	**Acqu Date:**	10/26/2006 19:37
Matrix:	SOIL	**Quant Date:**	10/27/2006 08:40

Duplicate Matrix Spike Information

Data File:	C:\HPCHEM\1\DATA\102606\1026009.D	**Instrument:**	GCQ
Lab ID:	DWG0600919-2	**Dilution:**	1.00
Client ID:	Duplicate Matrix Spike	**Units:**	mg/Kg
Prod Code:	8015B	**Acqu Date:**	10/26/2006 20:16
Matrix:	SOIL	**Quant Date:**	10/27/2006 08:40

Sample Reference Information

Data File:	C:\HPCHEM\1\DATA\102606\1026007.D	**Instrument:**	GCQ
Lab ID:	D0601625-001	**Dilution:**	1.00
Client ID:	T-52-56.5	**Units:**	mg/Kg
Prod Code:	8015B	**Acqu Date:**	10/26/2006 18:57
Matrix:	SOIL	**Quant Date:**	10/27/2006 08:40

Parameter Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Diesel Range Organics (C13-(	ND	243	300	81	246	300	82	50-140	1	40
Octacosane				81			83	40-150		

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026008.D Vial: 8
Acq On : 26 Oct 2006 7:37 pm Operator: MCM
Sample : D0601625-001.01ms 10g:10mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.15f	6309481	61.109 mg/L
Spiked Amount 75.000	Recovery =		81.48%
5) S Triacontane	21.17f	6195279	59.217 mg/L
Spiked Amount 75.000	Recovery =		78.96%
Target Compounds			
1) H GRO (c6-c12)	4.00	5595708	28.326 mg/L
2) H DRO (c13-c22)	13.00	23963038	243.498 mg/L
3) H HRO (c24-c36)	20.00	378642	4.685 mg/L

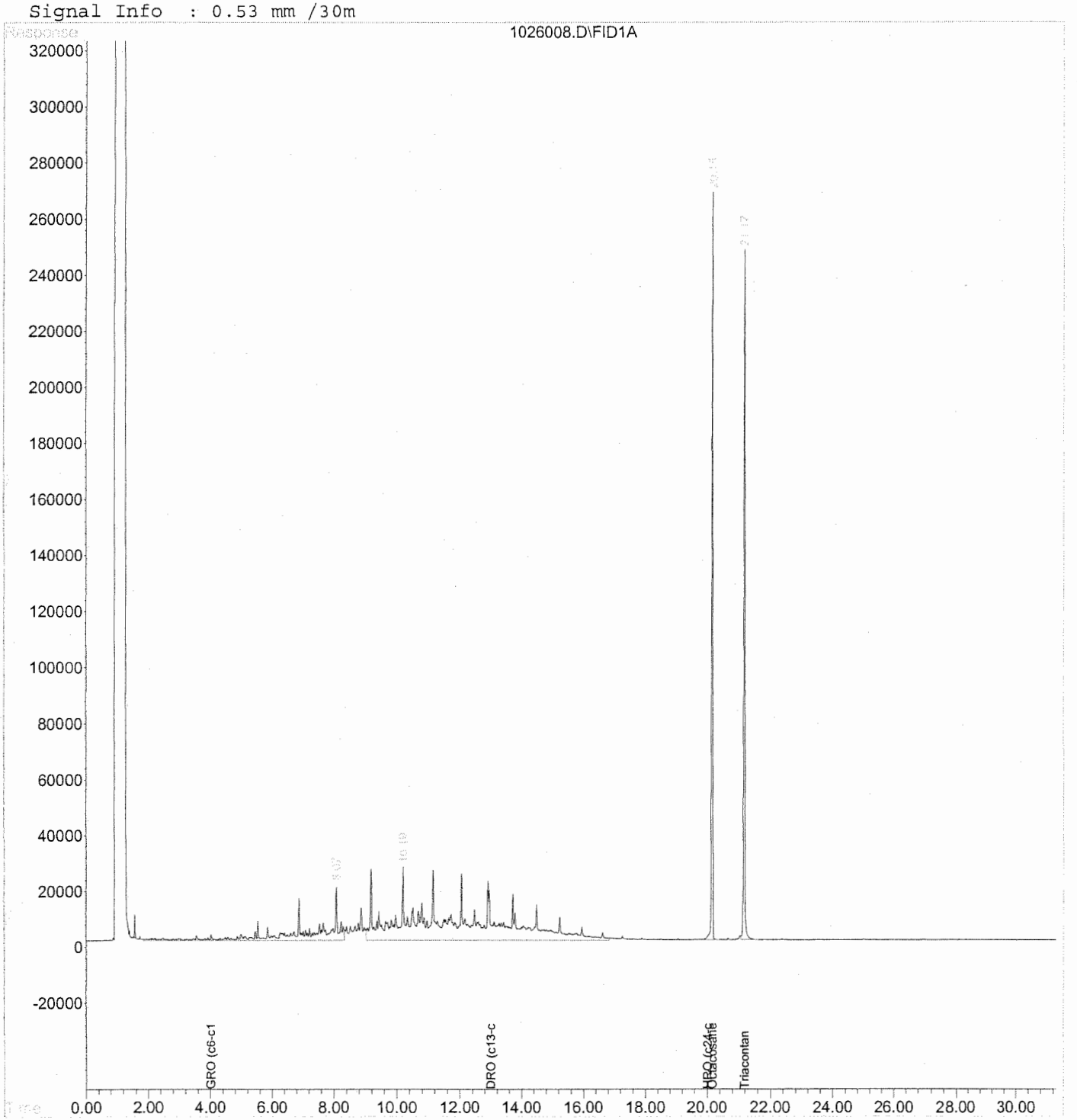
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102606\1026008.D Vial: 8
Acq On : 26 Oct 2006 7:37 pm Operator: MCM
Sample : D0601625-001.01ms 10g:10mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600921	**Prep Lot:**	DWG0600919	**Report Group:**	
Analysis Method:	8015B	**Prep Method:**	EPA 3550B Micro		
Prep Ref:	75206	**Prep Date:**	10/23/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ410
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102606\1026004.D	**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102606\1026009.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 20:16	**Quant Date:**	10/27/2006 08:40	**Vial:**	9
Run Type:	DMS			**Dilution:**	1.0
Lab ID:	DWG0600919-2 -- D0601625-001DMS			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	6427992	62.26	83	40-150	OK	

Target Compounds

Final Conc. Units: mg/KgDry

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		5614800**m**	28.53	28.5		
Diesel Range Organics (C13-C22	13.00		24189029**m**	245.79	246		
Heavy Range Organics (C24-C3	20.00		426099**m**	5.27	5.27	J	

Prep Amount:	10.0 g	**Dilution:**	1.0
Prep Final Vol:	10 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026009.D Vial: 9
Acq On : 26 Oct 2006 8:16 pm Operator: MCM
Sample : D0601625-001.01dms 10g:10mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16f	6427992	62.257 mg/L
Spiked Amount 75.000	Recovery =		83.01%
5) S Triacontane	21.18f	6331848	60.522 mg/L
Spiked Amount 75.000	Recovery =		80.70%
Target Compounds			
1) H GRO (c6-c12)	4.00	5614800	28.531 mg/L
2) H DRO (c13-c22)	13.00	24189029	245.794 mg/L
3) H HRO (c24-c36)	20.00	426099	5.272 mg/L

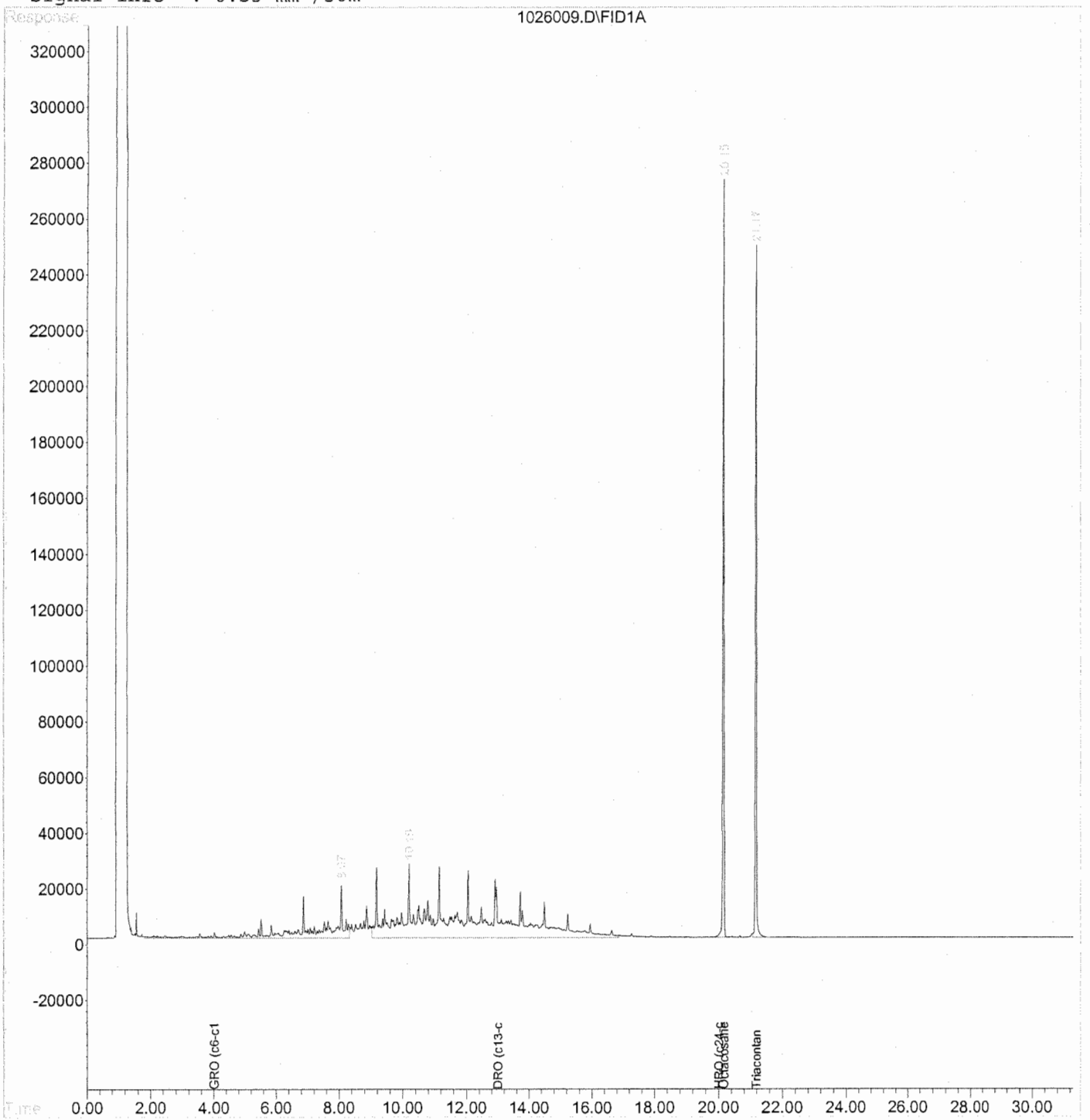
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102606\1026009.D Vial: 9
Acq On : 26 Oct 2006 8:16 pm Operator: MCM
Sample : D0601625-001.01dms 10g:10mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Continuing Calibration Data

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026001.D Vial: 1
Acq On : 26 Oct 2006 11:11 am Operator: MCM
Sample : Instrument Blk (DCM/SS) Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JCM 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.17	8744729	84.695 mg/L
Spiked Amount 75.000	Recovery =		112.93%
5) S Triacontane	21.19	8703117	83.188 mg/L
Spiked Amount 75.000	Recovery =		110.92%
Target Compounds			
1) H GRO (c6-c12)	4.00	565714	N.D. mg/L
2) H DRO (c13-c22)	13.00	490054	4.980 mg/L
3) H HRO (c24-c36)	20.00	670103	8.291 mg/L

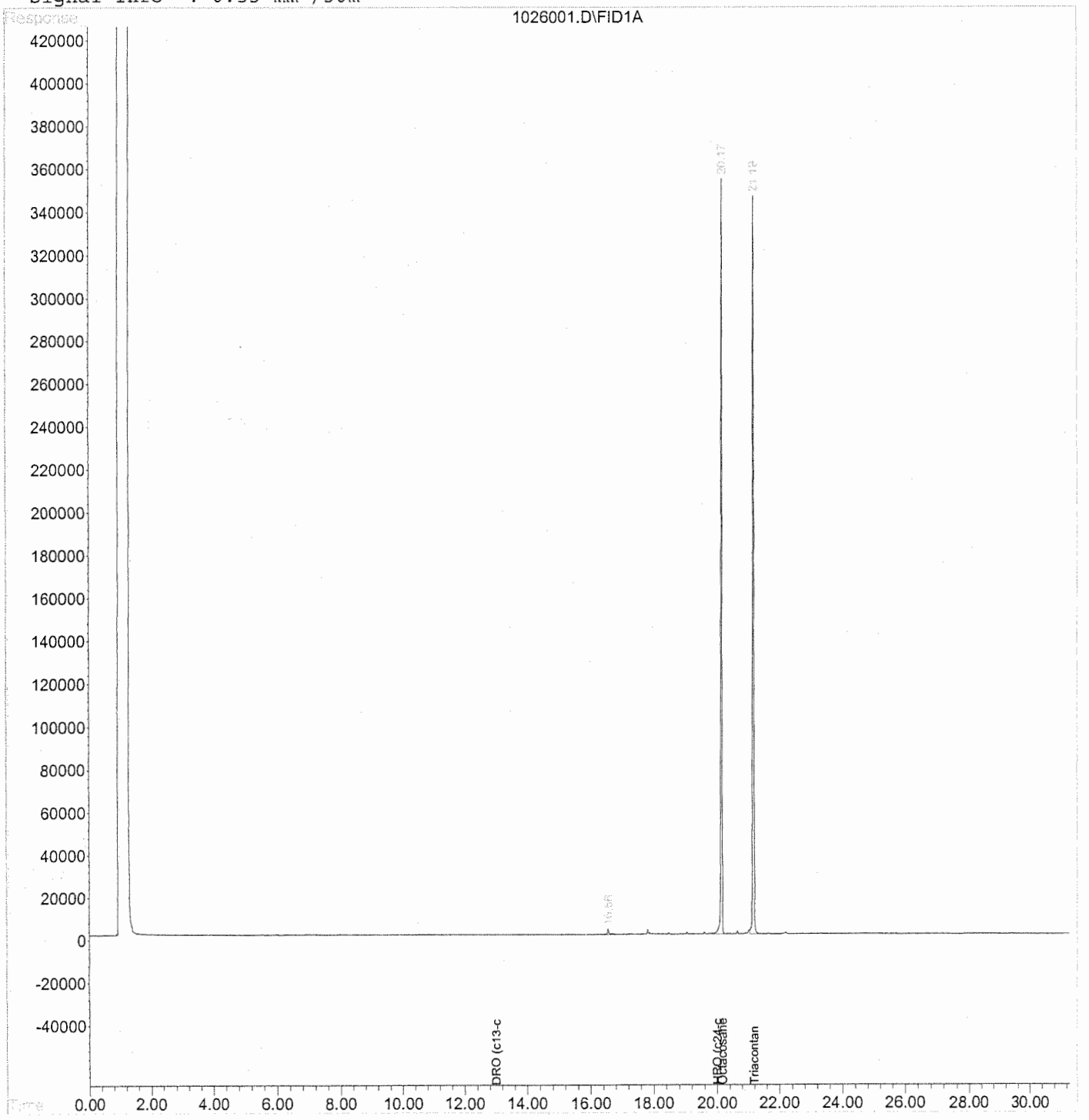
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102606\1026001.D Vial: 1
Acq On : 26 Oct 2006 11:11 am Operator: MCM
Sample : Instrument Blk (DCM/SS) Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026002.D Vial: 2
Acq On : 26 Oct 2006 11:50 am Operator: MCM
Sample : RT Marker c6_c40 Inst : GCQ
Misc : 4-S-GC-17C-1 Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

mcm 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.15f	1989668	19.270 mg/L
Spiked Amount 75.000	Recovery =		25.69%
5) S Triacontane	21.16f	1881788	17.987 mg/L
Spiked Amount 75.000	Recovery =		23.98%
Target Compounds			
1) H GRO (c6-c12)	4.00	10192270	77.702 mg/L
2) H DRO (c13-c22)	13.00	23474149	238.530 mg/L
3) H HRO (c24-c36)	20.00	18090575	223.823 mg/L

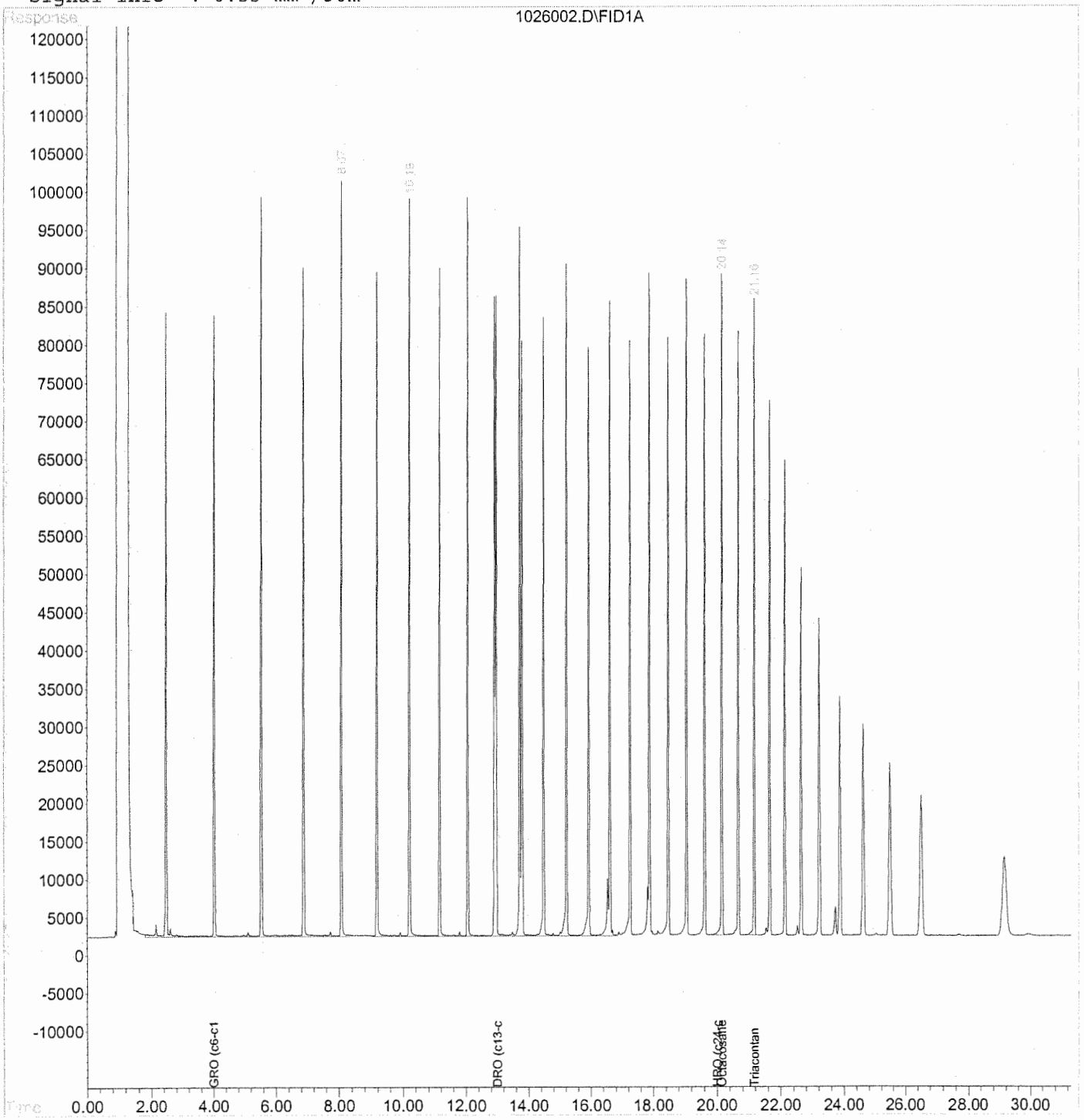
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102606\1026002.D Vial: 2
Acq On : 26 Oct 2006 11:50 am Operator: MCM
Sample : RT Marker c6_c40 Inst : GCQ
Misc : 4-S-GC-17C-1 Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/27/2006

Analysis Lot:	DWG0600921	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ410
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102606\1026003.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 12:30	**Quant Date:**	10/27/2006 08:40	**Vial:**	3
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0600921-1			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16		7362579	71.31		40-150	NA	

Target Compounds

Final Conc. Units: mg/KgDry

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		47520928**m**	478.69			
Diesel Range Organics (C13-C22	13.00		47168231**m**	479.29			
Heavy Range Organics (C24-C3	20.00		42796011**m**	529.49			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL1210
Method ID: MJ410
DataFile: C:\HPCHEM\1\DATA\102606\1026003.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Gasoline Range Organics (C6-C12)		TRG	Linear	15		1.2E+5	9.5E+4		478.7	500.0	-4.3
Diesel Range Organics (C13-C22)		MS	AverageRF	15		9.8E+4	9.4E+4	-4.1			
Heavy Range Organics (C24-C36)		TRG	AverageRF	15		8.1E+4	8.6E+4	5.9			
Octacosane		SURR	AverageRF	25		1.0E+5	9.8E+4	-4.9			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	4.8

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\102606\1026003.D Vial: 3
Acq On : 26 Oct 2006 12:30 pm Operator: MCM
Sample : 500ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65h Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration

MCM 10/27/06

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	H	GRO (c6-c12)	117.907	95.042 E3	19.4	92	0.00
2	H	DRO (c13-c22)	98.412	94.336 E3	4.1	97	0.00
3	H	HRO (c24-c36)	80.825	85.592 E3	-5.9	112	0.00
4	S	Octacosane	103.250	98.168 E3	4.9	100	-0.04
5	S	Triacontane	104.620	99.161 E3	5.2	100	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1026003.D FPQ60915.M Fri Oct 27 08:43:23 2006

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026003.D Vial: 3
Acq On : 26 Oct 2006 12:30 pm Operator: MCM
Sample : 500ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65h Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16	7362579	71.309 mg/L
Spiked Amount 75.000	Recovery =		95.08%
5) S Triacontane	21.18	7437079	71.087 mg/L
Spiked Amount 75.000	Recovery =		94.78%
Target Compounds			
1) H GRO (c6-c12)	4.00	47520928	478.689 mg/L
2) H DRO (c13-c22)	13.00	47168231	479.294 mg/L
3) H HRO (c24-c36)	20.00	42796011	529.487 mg/L

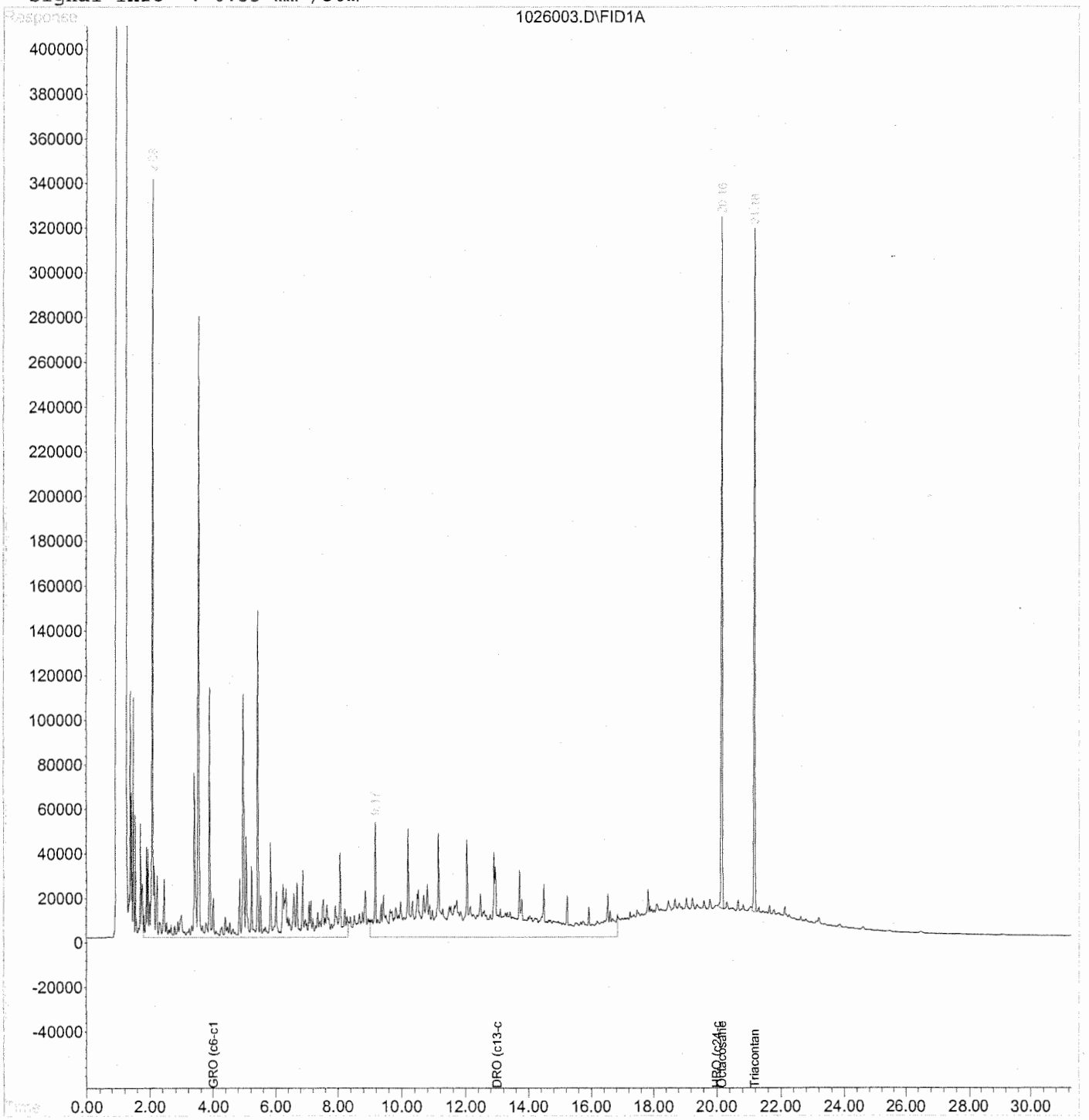
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102606\1026003.D Vial: 3
Acq On : 26 Oct 2006 12:30 pm Operator: MCM
Sample : 500ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65h Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/27/2006

Analysis Lot:	DWG0600921	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ410
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102606\1026011.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 21:36	**Quant Date:**	10/27/2006 08:40	**Vial:**	11
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0600921-2			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.18		11513425	111.51		40-150	NA	

Target Compounds

Final Conc. Units: mg/KgDry

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		95165254**m**	990.49			
Diesel Range Organics (C13-C22	13.00		91405620**m**	928.81			
Heavy Range Organics (C24-C3	20.00		82864960**m**	1,025			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL1210
Method ID: MJ410

DataFile: C:\HPCHEM\1\DATA\102606\1026011.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Gasoline Range Organics (C6-C12)		TRG	Linear	15		1.2E+5	9.5E+4		990.5	1,000	-1.0
Diesel Range Organics (C13-C22)		MS	AverageRF	15		9.8E+4	9.1E+4	-7.1			
Heavy Range Organics (C24-C36)		TRG	AverageRF	15		8.1E+4	8.3E+4	2.5			
Octacosane		SURR	AverageRF	25		1.0E+5	9.2E+4	-10.8			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	5.3

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\102606\1026011.D Vial: 11
Acq On : 26 Oct 2006 9:36 pm Operator: MCM
Sample : 1000ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65i Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration

MCM 10/27/06

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	H	GRO (c6-c12)	117.907	95.165 E3	19.3	94	0.00
2	H	DRO (c13-c22)	98.412	91.406 E3	7.1	97	0.00
3	H	HRO (c24-c36)	80.825	82.865 E3	-2.5	111	0.00
4	S	Octacosane	103.250	92.107 E3	10.8	96	-0.03
5	S	Triacontane	104.620	93.777 E3	10.4	95	-0.03

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026011.D Vial: 11
Acq On : 26 Oct 2006 9:36 pm Operator: MCM
Sample : 1000ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65i Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JCM 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.18	11513425	111.511 mg/L
Spiked Amount 75.000	Recovery =		148.68%
5) S Triacontane	21.20	11722078	112.044 mg/L
Spiked Amount 75.000	Recovery =		149.39%
Target Compounds			
1) H GRO (c6-c12)	4.00	95165254	990.488 mg/L
2) H DRO (c13-c22)	13.00	91405620	928.807 mg/L
3) H HRO (c24-c36)	20.00	82864960	1025.233 mg/L

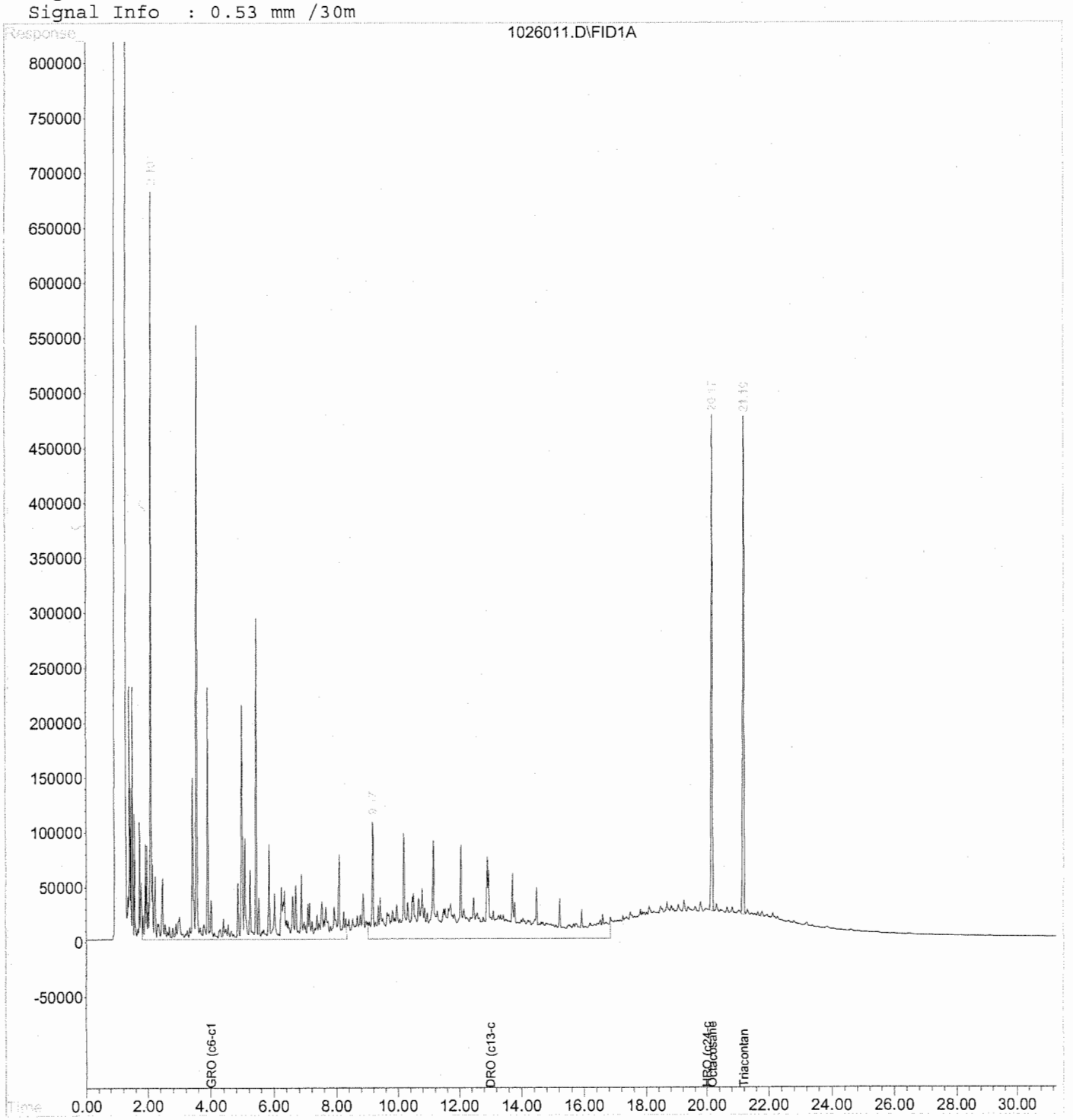
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102606\1026011.D Vial: 11
Acq On : 26 Oct 2006 9:36 pm Operator: MCM
Sample : 1000ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65i Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025001.D Vial: 1
Acq On : 25 Oct 2006 9:57 am Operator: MCM
Sample : Instrument Blk (DCM/SS) Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	20.16	8267544	80.073	mg/L
Spiked Amount 75.000	Recovery =		106.76%	
5) S Triacontane	21.18	8294934	79.286	mg/L
Spiked Amount 75.000	Recovery =		105.71%	
Target Compounds				
1) H GRO (c6-c12)	4.00	515664	N.D.	mg/L
2) H DRO (c13-c22)	13.00	393704	4.001	mg/L
3) H HRO (c24-c36)	20.00	756366	9.358	mg/L

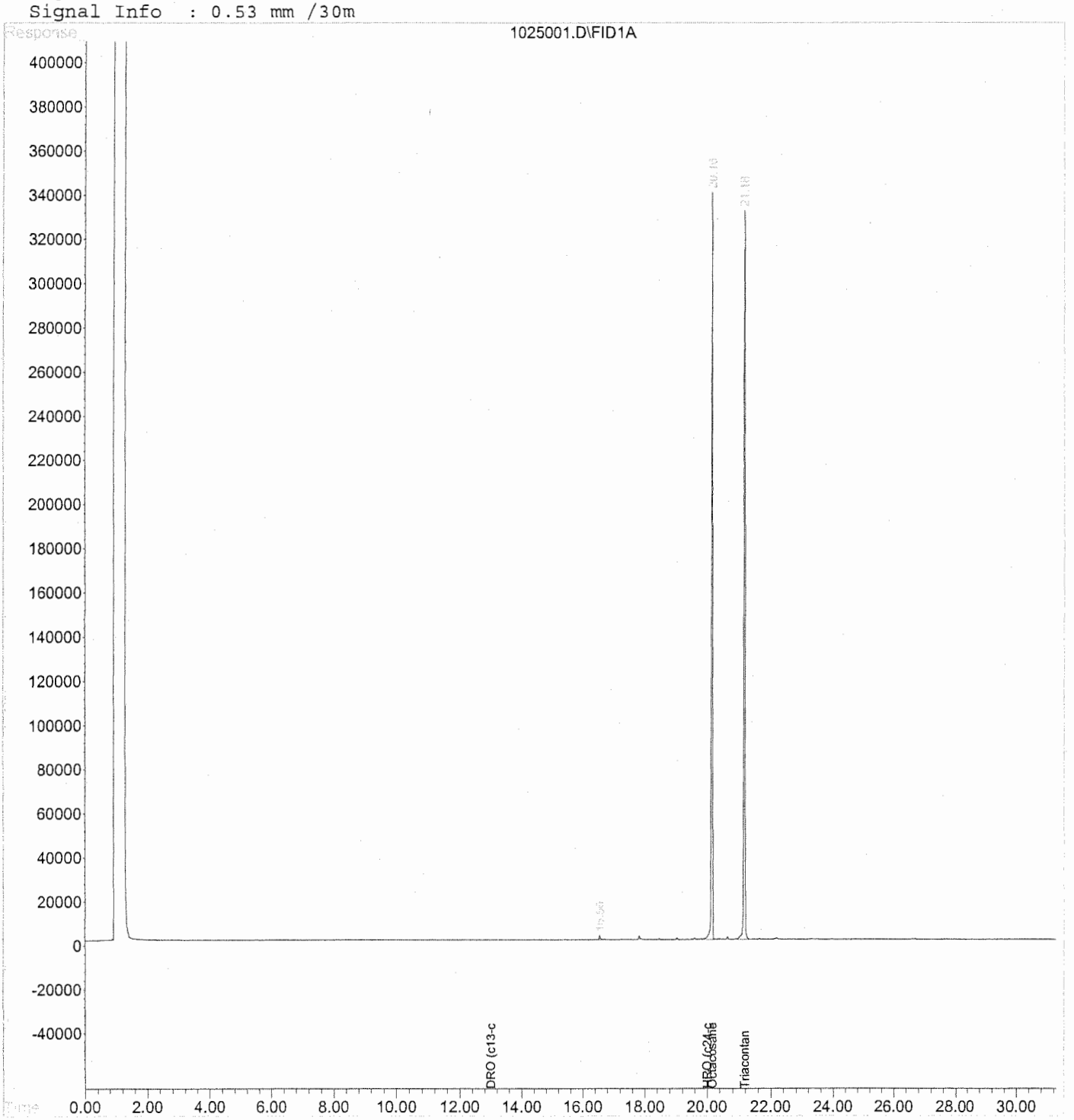
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025001.D Vial: 1
Acq On : 25 Oct 2006 9:57 am Operator: MCM
Sample : Instrument Blk (DCM/SS) Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025002.D Vial: 2
Acq On : 25 Oct 2006 10:37 am Operator: MCM
Sample : RT Marker c6_c40 Inst : GCQ
Misc : 4-S-GC-17C-1 Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JLM 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.14f	1895777	18.361 mg/L
Spiked Amount 75.000	Recovery =		24.48%
5) S Triacontane	21.16f	1789876	17.108 mg/L
Spiked Amount 75.000	Recovery =		22.81%
Target Compounds			
1) H GRO (c6-c12)	4.00	9556652	70.875 mg/L
2) H DRO (c13-c22)	13.00	22209114	225.675 mg/L
3) H HRO (c24-c36)	20.00	17278833	213.779 mg/L

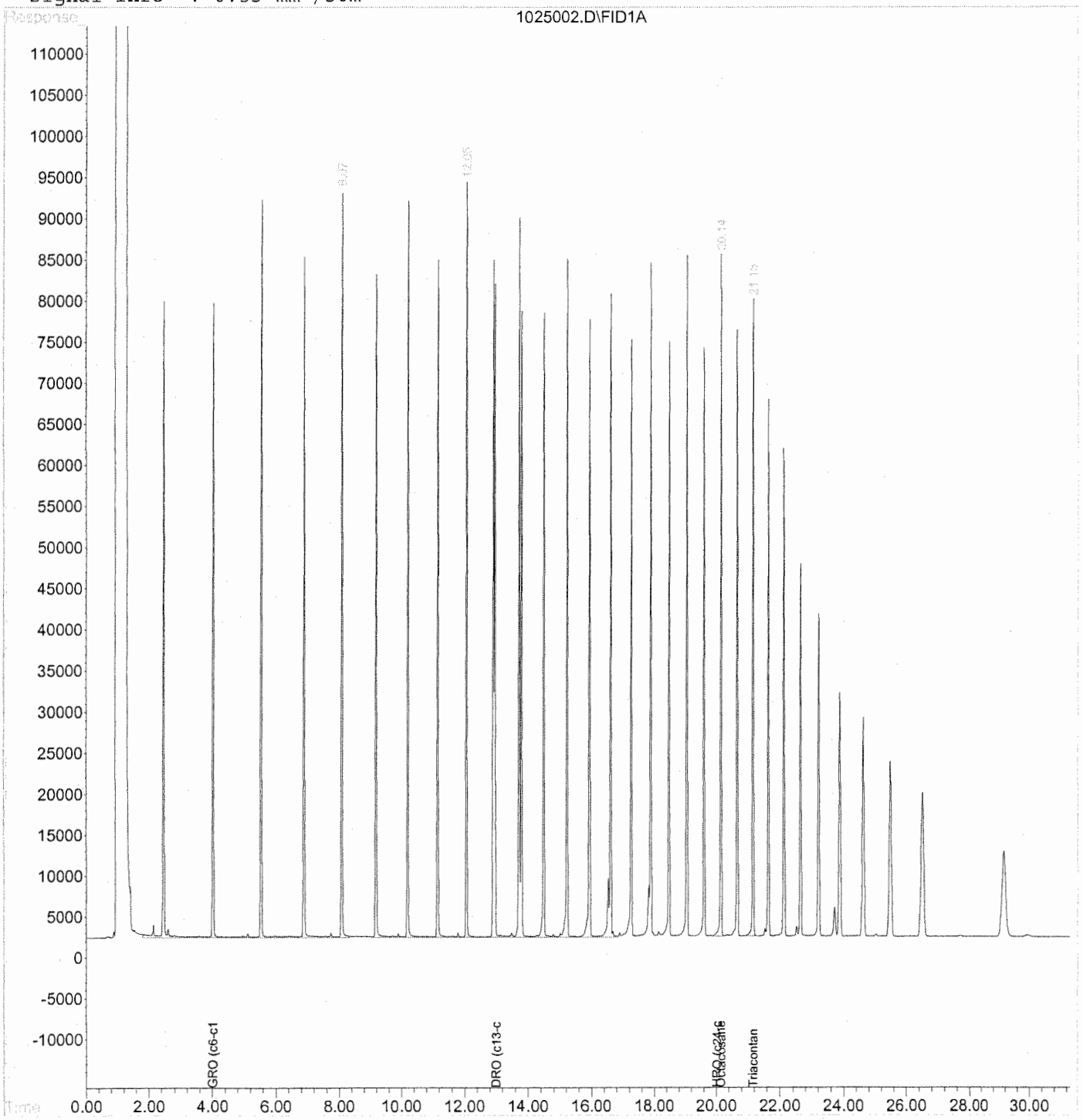
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025002.D Vial: 2
Acq On : 25 Oct 2006 10:37 am Operator: MCM
Sample : RT Marker c6_c40 Inst : GCQ
Misc : 4-S-GC-17C-1 Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600917	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ411
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025022.D			**Instrument:**	GCQ
Acqu Date:	10/25/2006 23:48	**Quant Date:**	10/26/2006 10:21	**Vial:**	3
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0600917-1			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16		7297575	70.68		50-140	NA	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		46609170**m**	468.90			
Diesel Range Organics (C13-C22	13.00		46693230**m**	474.47			
Heavy Range Organics (C24-C3	20.00		42682157**m**	528.08			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above bigh point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL1210
Method ID: MJ411
DataFile: C:\HPCHEM\1\DATA\102506S\1025022.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Gasoline Range Organics (C6-C12)		TRG	Linear	15		1.2E+5	9.3E+4		468.9	500.0	-6.2
Diesel Range Organics (C13-C22)		MS	AverageRF	15		9.8E+4	9.3E+4	-5.1			
Heavy Range Organics (C24-C36)		TRG	AverageRF	15		8.1E+4	8.5E+4	5.6			
Octacosane		SURR	AverageRF	25		1.0E+5	9.7E+4	-5.8			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	5.7

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\102506S\1025022.D Vial: 3
Acq On : 25 Oct 2006 11:48 pm Operator: MCM
Sample : 500ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65h Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration

MCM 10/26/06

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	H	GRO (c6-c12)	117.907	93.218 E3	20.9	90	0.00
2	H	DRO (c13-c22)	98.412	93.386 E3	5.1	96	0.00
3	H	HRO (c24-c36)	80.825	85.364 E3	-5.6	112	0.00
4	S	Octacosane	103.250	97.301 E3	5.8	100	-0.05
5	S	Triacontane	104.620	98.445 E3	5.9	99	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1025022.D FPQ60915.M Thu Oct 26 10:24:21 2006 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025022.D Vial: 3
Acq On : 25 Oct 2006 11:48 pm Operator: MCM
Sample : 500ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65h Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JEM 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	20.16	7297575	70.679	mg/L
Spiked Amount 75.000		Recovery =	94.24%	
5) S Triacontane	21.18	7383351	70.573	mg/L
Spiked Amount 75.000		Recovery =	94.10%	
Target Compounds				
1) H GRO (c6-c12)	4.00	46609170	468.895	mg/L
2) H DRO (c13-c22)	13.00	46693230	474.468	mg/L
3) H HRO (c24-c36)	20.00	42682157	528.078	mg/L

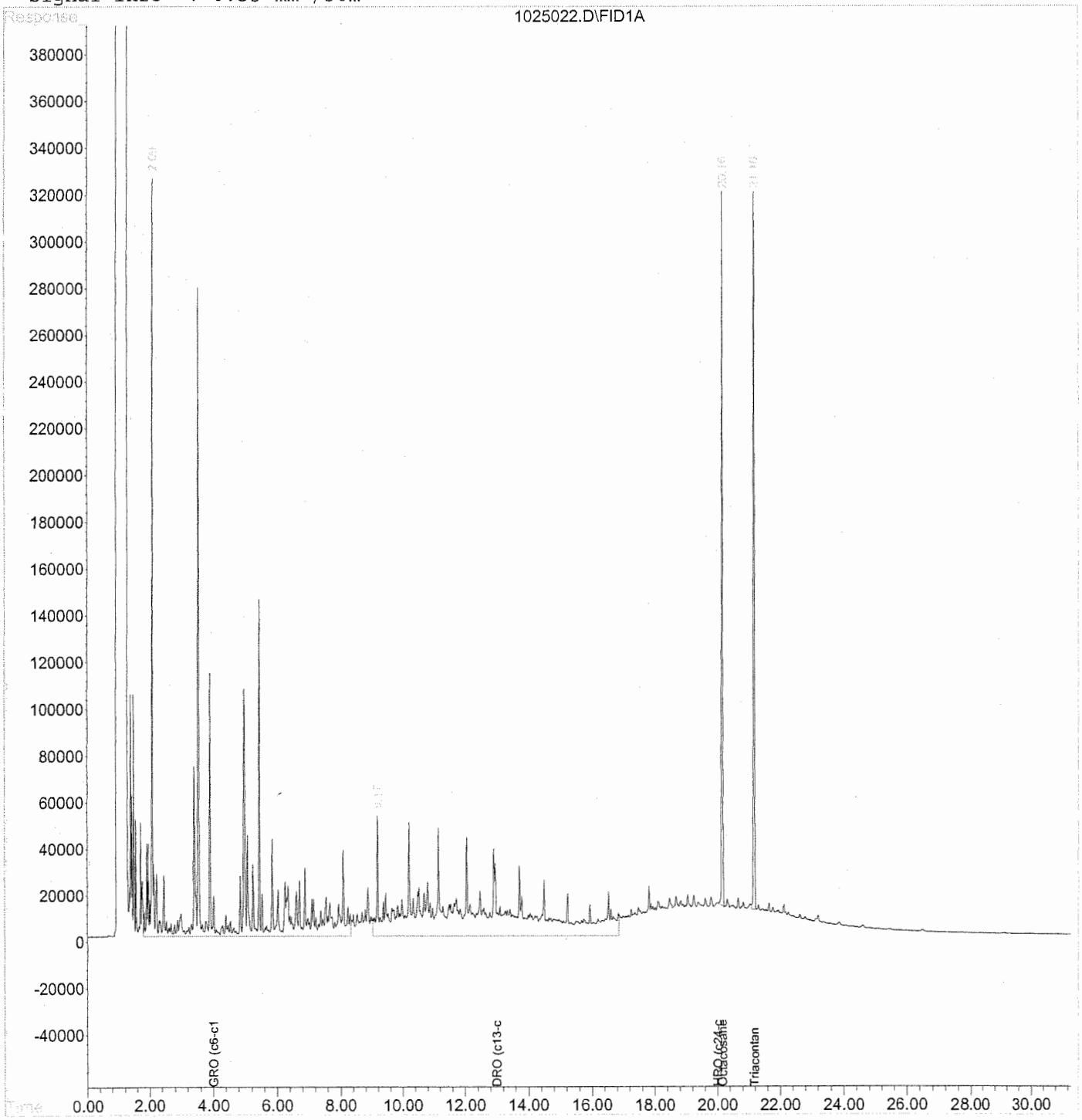
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025022.D Vial: 3
Acq On : 25 Oct 2006 11:48 pm Operator: MCM
Sample : 500ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65h Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**		**Receive Date:**	10/26/2006

Analysis Lot:	DWG0600917	**Prep Lot:**		**Report Group:**	
Analysis Method:	8015B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:			
		Method ID:	MJ411
MB Ref:		**Quant based on Method**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025033.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 07:03	**Quant Date:**	10/26/2006 10:22	**Vial:**	12
Run Type:	CCV			**Dilution:**	1.0
Lab ID:	DWG0600917-2			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.17		11292960	109.38		50-140	NA	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1	4.00		91614204**m**	952.34			
Diesel Range Organics (C13-C22	13.00		89451638**m**	908.95			
Heavy Range Organics (C24-C3	20.00		81381757**m**	1,007			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also fonnd in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Calibration Verification Report

Calibration ID: CAL1210
Method ID: MJ411
DataFile: C:\HPCHEM\1\DATA\102506S\1025033.D

Parameter Name	Type	PARM Type	Curve Fit	Method Criteria	Min RF	ICAL RF	CCV RF	%Diff	Sol'n Conc.	True Value	% Drift
Gasoline Range Organics (C6-C12)		TRG	Linear	15		1.2E+5	9.2E+4		952.3	1,000	-4.8
Diesel Range Organics (C13-C22)		MS	AverageRF	15		9.8E+4	8.9E+4	-9.1			
Heavy Range Organics (C24-C36)		TRG	AverageRF	15		8.1E+4	8.1E+4	0.7			
Octacosane		SURR	AverageRF	25		1.0E+5	9.0E+4	-12.5			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	6.8

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\102506S\1025033.D Vial: 12
Acq On : 26 Oct 2006 7:03 am Operator: MCM
Sample : 1000ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65i Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration

MCM 10/26/06

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	H	GRO (c6-c12)	117.907	91.614 E3	22.3	91	0.00
2	H	DRO (c13-c22)	98.412	89.452 E3	9.1	95	0.00
3	H	HRO (c24-c36)	80.825	81.382 E3	-0.7	109	0.00
4	S	Octacosane	103.250	90.344 E3	12.5	94	-0.03
5	S	Triacontane	104.620	91.507 E3	12.5	93	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1025033.D FPQ60915.M Thu Oct 26 10:24:09 2006 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025033.D Vial: 12
Acq On : 26 Oct 2006 7:03 am Operator: MCM
Sample : 1000ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65i Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:22 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JCM 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	20.17	11292960	109.375	mg/L
Spiked Amount 75.000	Recovery =		145.83%	
5) S Triacontane	21.19	11438407	109.333	mg/L
Spiked Amount 75.000	Recovery =		145.78%	
Target Compounds				
1) H GRO (c6-c12)	4.00	91614204	952.342	mg/L
2) H DRO (c13-c22)	13.00	89451638	908.952	mg/L
3) H HRO (c24-c36)	20.00	81381757	1006.882	mg/L

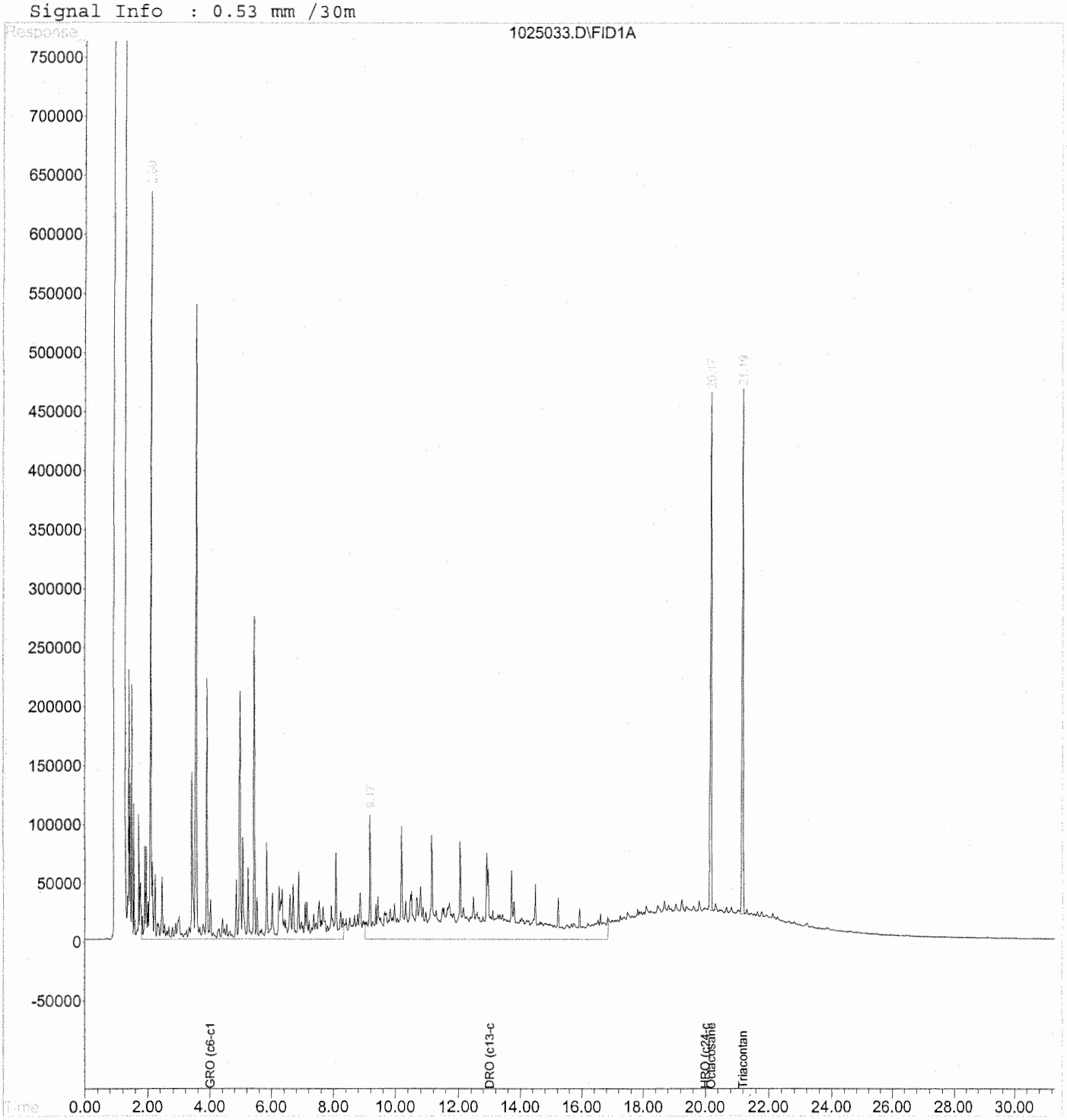
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025033.D Vial: 12
Acq On : 26 Oct 2006 7:03 am Operator: MCM
Sample : 1000ppm GAS/DSL/OIL CCV Inst : GCQ
Misc : 22-GC-65i Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:22 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Sample Raw Data

Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600917	**Prep Lot:**	DWG0600916	**Report Group:**	D0601625
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	75189	**Prep Date:**	10/25/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025032.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 06:23	**Quant Date:**	10/26/2006 10:22	**Vial:**	26
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-009			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.15	-0.01	6199889	60.05	80	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			461110**m**		0.50	U	
Diesel Range Organics (C13-C22	13.00		271051**m**	2.75	0.44	U	
Heavy Range Organics (C24-C3	20.00		393866**m**	4.87	0.50	U	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Resnlt >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025032.D Vial: 26
Acq On : 26 Oct 2006 6:23 am Operator: MCM
Sample : D0601625-09.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:22 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JTP 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.15f	6199889	60.048 mg/L
Spiked Amount 75.000	Recovery =		80.06%
5) S Triacontane	21.17f	6161883	58.898 mg/L
Spiked Amount 75.000	Recovery =		78.53%
Target Compounds			
1) H GRO (c6-c12)	4.00	461110	N.D. mg/L
2) H DRO (c13-c22)	13.00	271051	2.754 mg/L
3) H HRO (c24-c36)	20.00	393866	4.873 mg/L

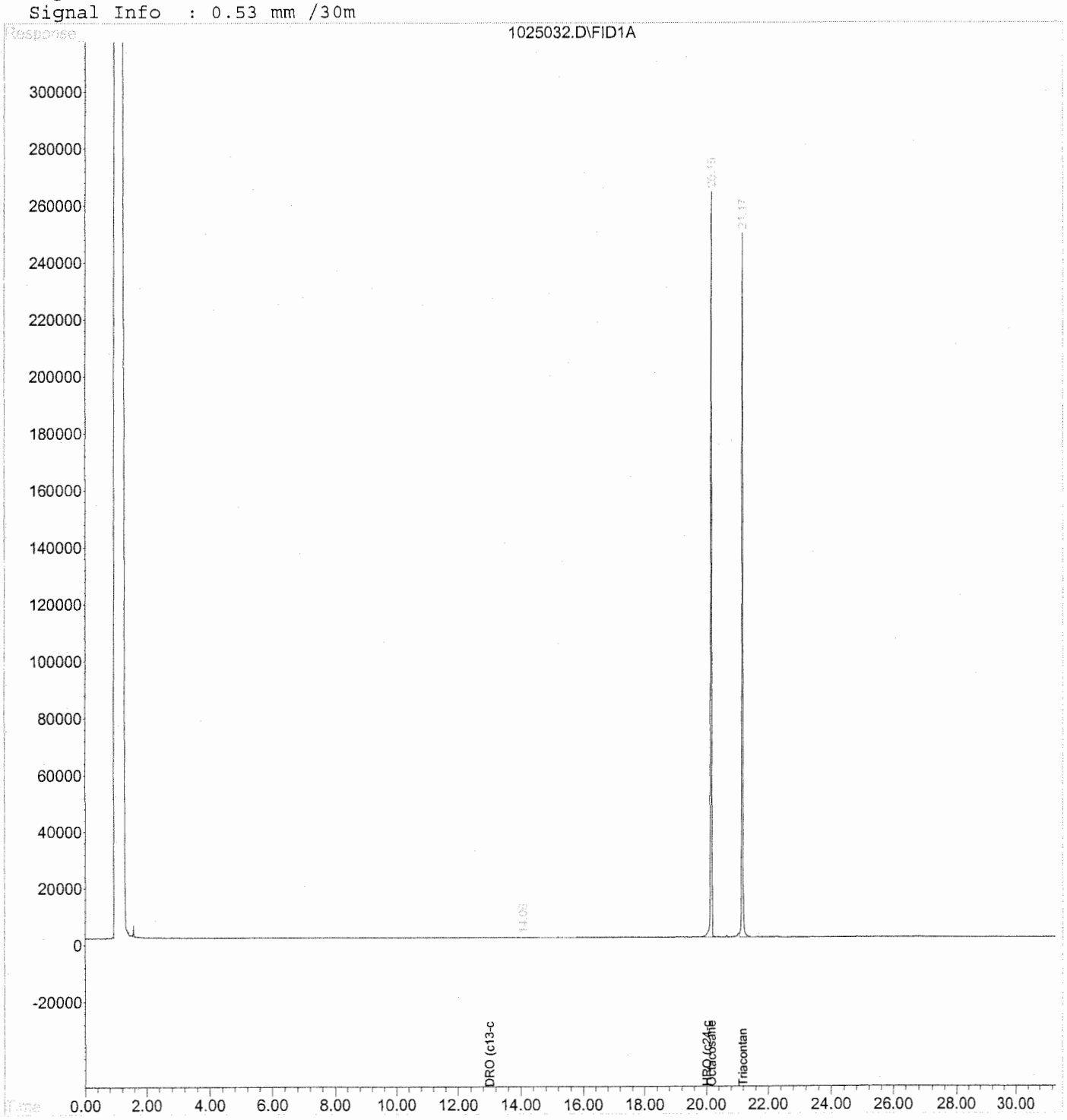
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025032.D Vial: 26
Acq On : 26 Oct 2006 6:23 am Operator: MCM
Sample : D0601625-09.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:22 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8015B	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600921	**Prep Lot:**	DWG0600919	**Report Group:**	D0601625
Analysis Method:	8015B	**Prep Method:**	EPA 3550B Micro		
Prep Ref:	75202	**Prep Date:**	10/23/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1402
		Method ID:	MJ410
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102606\1026004.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102606\1026007.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 18:57	**Quant Date:**	10/27/2006 08:40	**Vial:**	7
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-001			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	6484820	62.81	84	40-150	OK	

Target Compounds

Final Conc. Units: mg/KgDry

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			382040**m**		3.3	U	
Diesel Range Organics (C13-C22	13.00		109428**m**	1.11	5.4	U	
Heavy Range Organics (C24-C3	20.00		226208**m**	2.80	5.5	U	

Prep Amount:	10.0 g	**Dilution:**	1.0
Prep Final Vol:	10 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026007.D Vial: 7
Acq On : 26 Oct 2006 6:57 pm Operator: MCM
Sample : D0601625-001.01 10g:10mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JCM 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16f	6484820	62.807 mg/L
Spiked Amount 75.000	Recovery	=	83.74%
5) S Triacontane	21.18f	6386769	61.047 mg/L
Spiked Amount 75.000	Recovery	=	81.40%
Target Compounds			
1) H GRO (c6-c12)	4.00	382040	N.D. mg/L
2) H DRO (c13-c22)	13.00	109428	1.112 mg/L
3) H HRO (c24-c36)	20.00	226208	2.799 mg/L

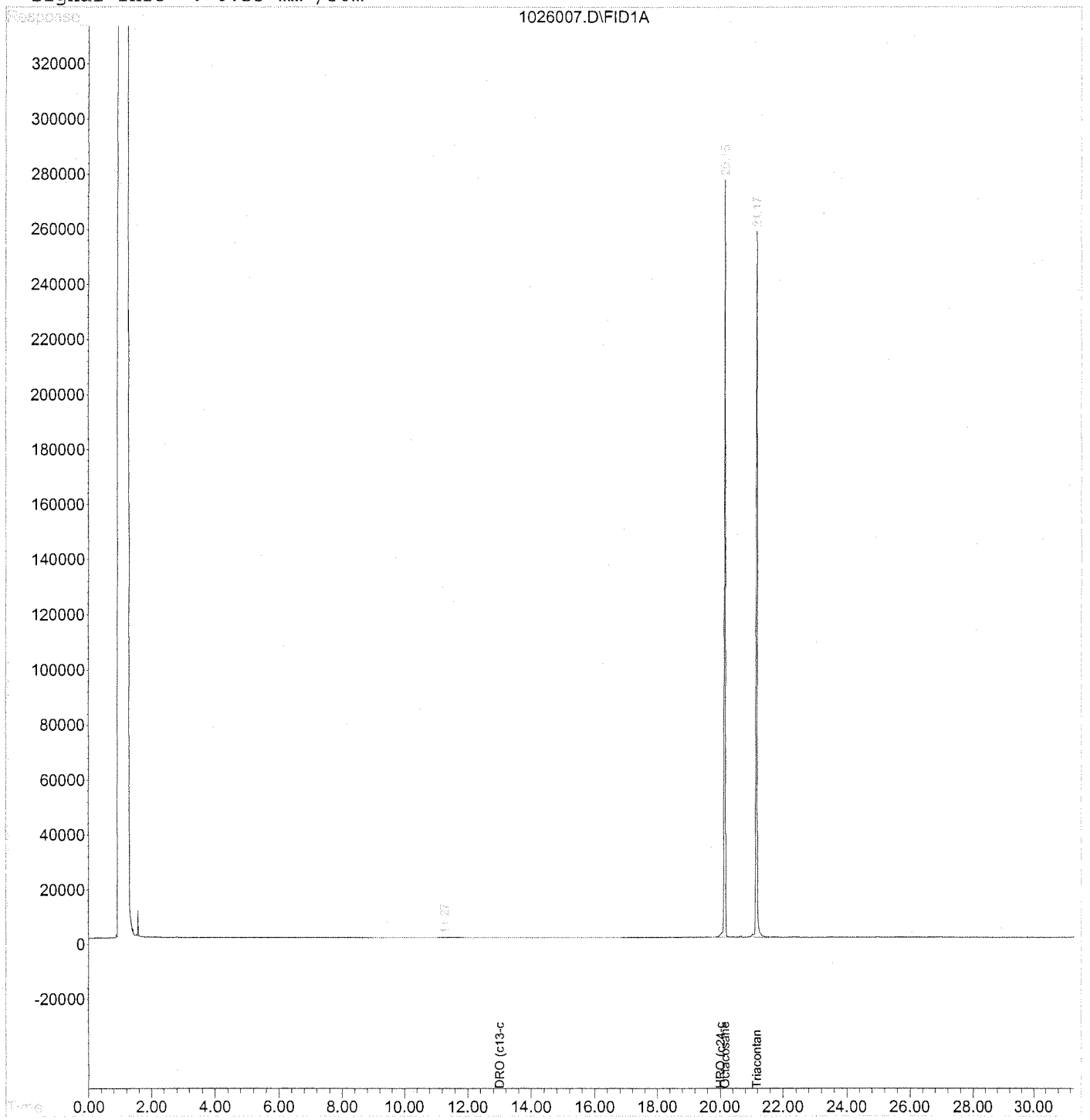
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102606\1026007.D Vial: 7
Acq On : 26 Oct 2006 6:57 pm Operator: MCM
Sample : D0601625-001.01 10g:10mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600917	**Prep Lot:**	DWG0600916	**Report Group:**	D0601625
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	75184	**Prep Date:**	10/25/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025027.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 03:06	**Quant Date:**	10/26/2006 10:21	**Vial:**	21
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-002			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	7256754	70.28	94	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			908108**m**		0.50	U	
Diesel Range Organics (C13-C22	13.00		289627**m**	2.94	0.44	U	
Heavy Range Organics (C24-C3	20.00		389205**m**	4.82	0.50	U	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025027.D Vial: 21
Acq On : 26 Oct 2006 3:06 am Operator: MCM
Sample : D0601625-02.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16	7256754	70.284 mg/L
Spiked Amount 75.000	Recovery =		93.71%
5) S Triacontane	21.18f	7176931	68.600 mg/L
Spiked Amount 75.000	Recovery =		91.47%
Target Compounds			
1) H GRO (c6-c12)	4.00	908108	N.D. mg/L
2) H DRO (c13-c22)	13.00	289627	2.943 mg/L
3) H HRO (c24-c36)	20.00	389205	4.815 mg/L

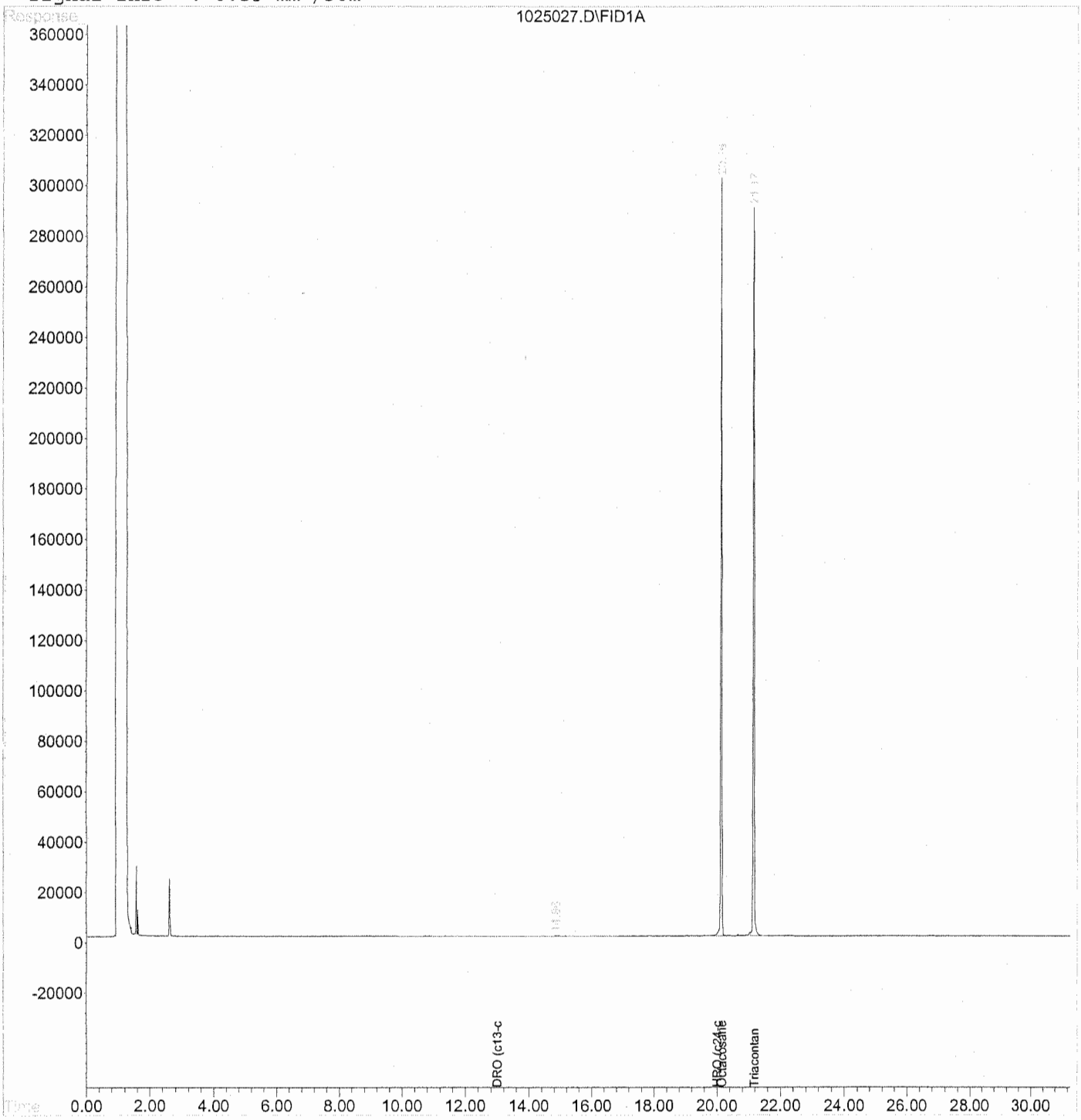
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025027.D Vial: 21
Acq On : 26 Oct 2006 3:06 am Operator: MCM
Sample : D0601625-02.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600917	**Prep Lot:**	DWG0600916	**Report Group:**	D0601625
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	75185	**Prep Date:**	10/25/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025028.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 03:45	**Quant Date:**	10/26/2006 10:21	**Vial:**	22
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-004			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	6953660	67.35	90	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			452042**m**		0.50	U	
Diesel Range Organics (C13-C22	13.00		384387**m**	3.91	0.44	U	
Heavy Range Organics (C24-C3	20.00		489681**m**	6.06	0.61	J	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025028.D Vial: 22
Acq On : 26 Oct 2006 3:45 am Operator: MCM
Sample : D0601625-04.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16	6953660	67.348 mg/L
Spiked Amount 75.000	Recovery =		89.80%
5) S Triacontane	21.18f	6885223	65.812 mg/L
Spiked Amount 75.000	Recovery =		87.75%
Target Compounds			
1) H GRO (c6-c12)	4.00	452042	N.D. mg/L
2) H DRO (c13-c22)	13.00	384387	3.906 mg/L
3) H HRO (c24-c36)	20.00	489681	6.058 mg/L

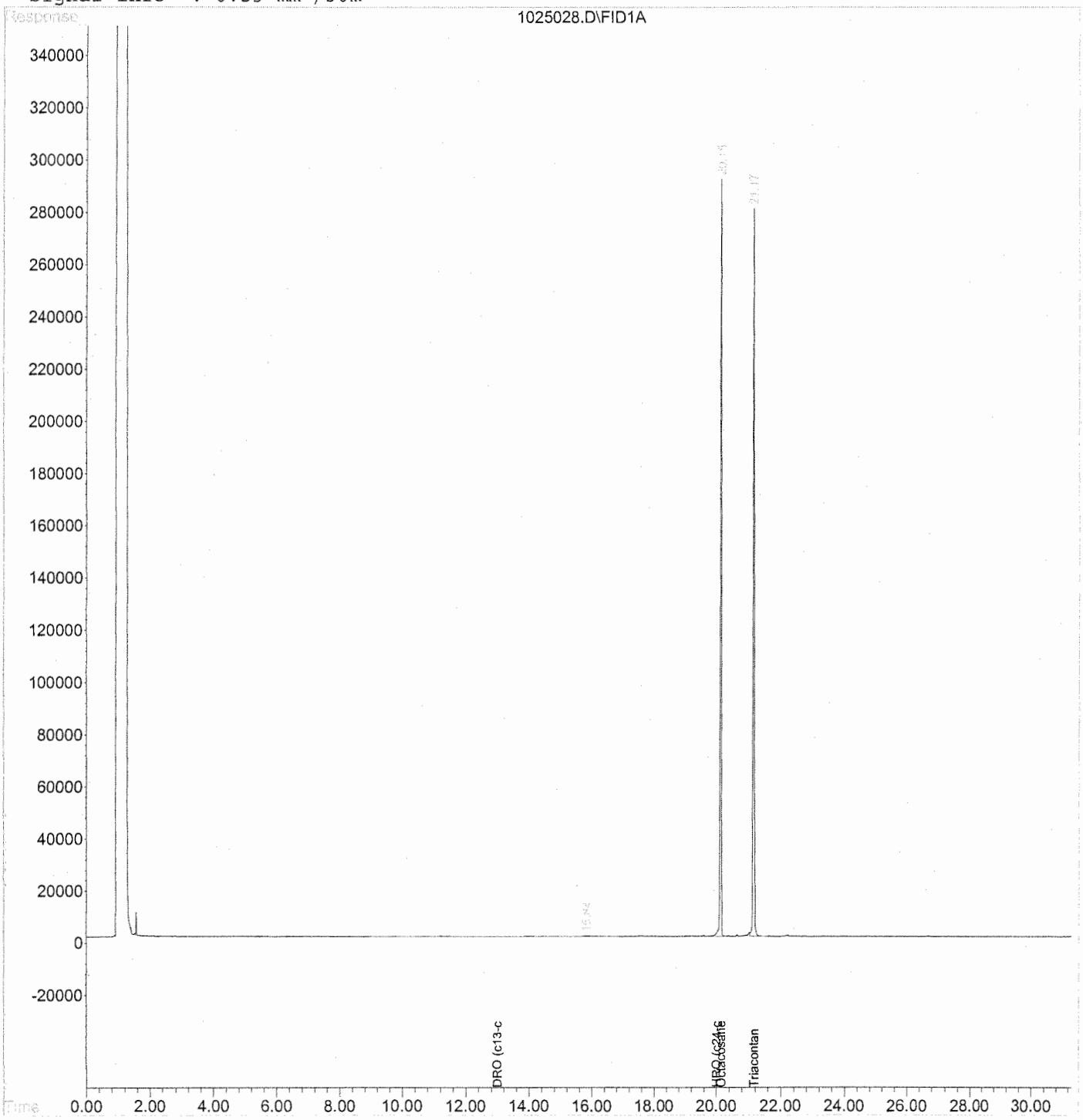
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025028.D Vial: 22
Acq On : 26 Oct 2006 3:45 am Operator: MCM
Sample : D0601625-04.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600917	**Prep Lot:**	DWG0600916	**Report Group:**	D0601625
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	75186	**Prep Date:**	10/25/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025029.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 04:25	**Quant Date:**	10/26/2006 10:21	**Vial:**	23
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-005			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.15	-0.01	6978023	67.58	90	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			542576**m**		0.50	U	
Diesel Range Organics (C13-C22	13.00		1065162**m**	10.82	1.1		
Heavy Range Organics (C24-C3	20.00		848212**m**	10.49	1.0		

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025029.D Vial: 23
Acq On : 26 Oct 2006 4:25 am Operator: MCM
Sample : D0601625-05.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JCM 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.15f	6978023	67.584 mg/L
Spiked Amount 75.000	Recovery =		90.11%
5) S Triacontane	21.17f	6932717	66.266 mg/L
Spiked Amount 75.000	Recovery =		88.35%
Target Compounds			
1) H GRO (c6-c12)	4.00	542576	N.D. mg/L
2) H DRO (c13-c22)	13.00	1065162	10.824 mg/L
3) H HRO (c24-c36)	20.00	848212	10.494 mg/L

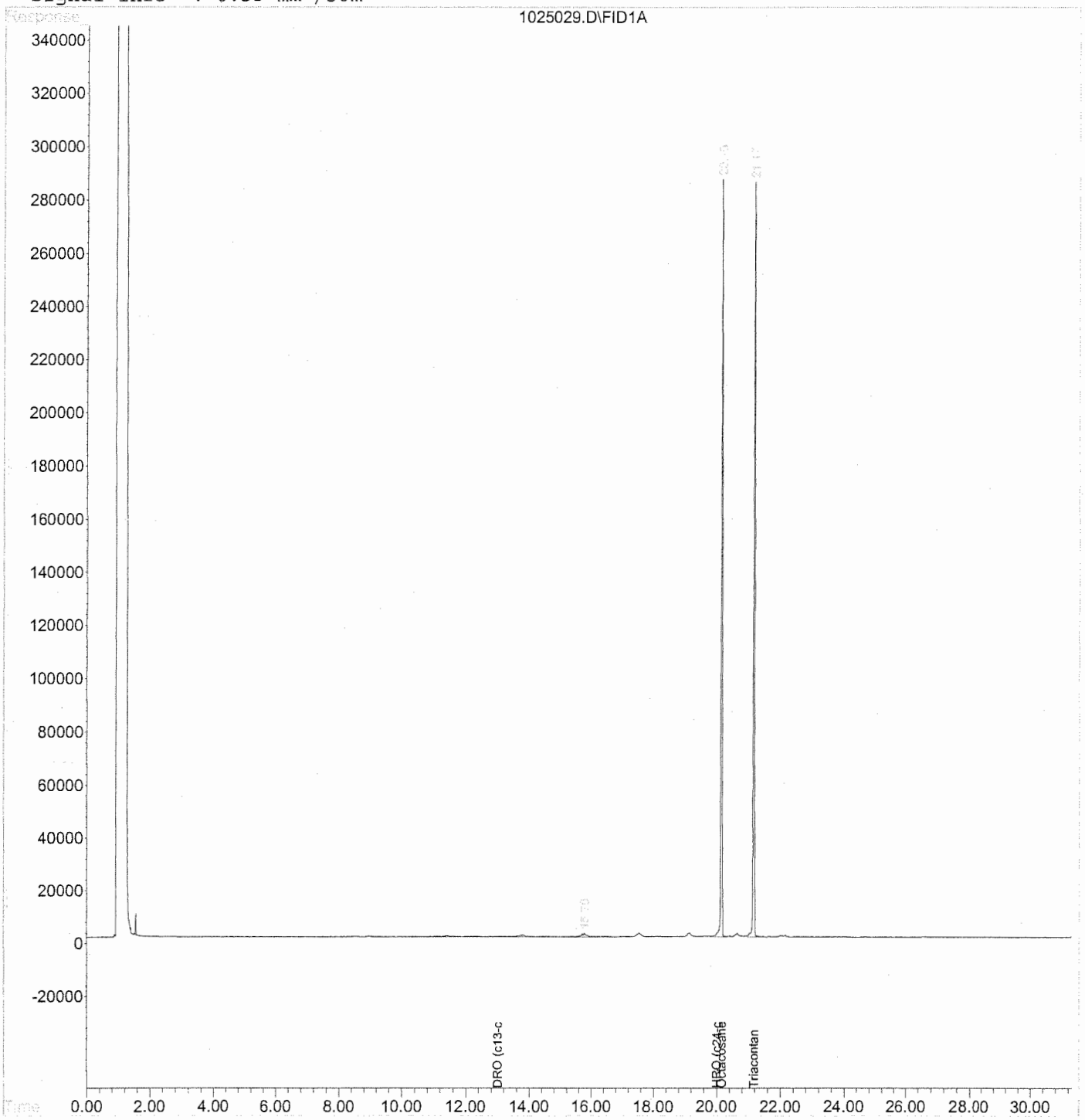
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025029.D Vial: 23
Acq On : 26 Oct 2006 4:25 am Operator: MCM
Sample : D0601625-05.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8015B	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600921	**Prep Lot:**	DWG0600919	**Report Group:**	D0601625
Analysis Method:	8015B	**Prep Method:**	EPA 3550B Micro		
Prep Ref:	75203	**Prep Date:**	10/23/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1402
		Method ID:	MJ410
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102606\1026004.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102606\1026010.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 20:56	**Quant Date:**	10/27/2006 08:40	**Vial:**	10
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-006			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	6359740	61.60	82	40-150	OK	

Target Compounds

Final Conc. Units: mg/KgDry

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			390676**m**		3.3	U	
Diesel Range Organics (C13-C22	13.00		97132**m**	0.9870	5.4	U	
Heavy Range Organics (C24-C3	20.00		202990**m**	2.51	5.5	U	

Prep Amount:	10.2 g	**Dilution:**	1.0
Prep Final Vol:	10 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidcnee of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102606\1026010.D Vial: 10
Acq On : 26 Oct 2006 8:56 pm Operator: MCM
Sample : D0601625-006.01 10.2g:10mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

JCM 10/27/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

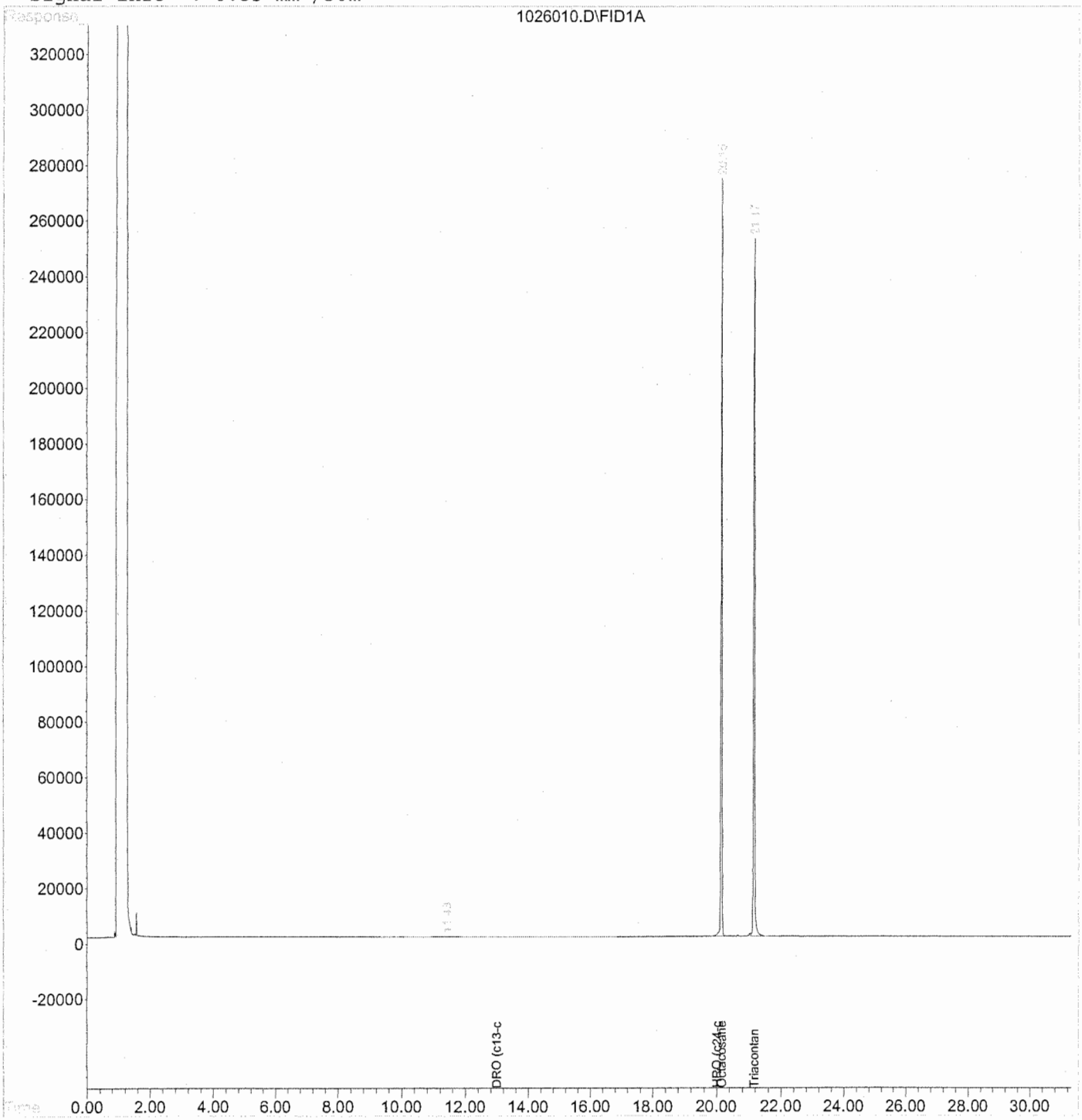
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16f	6359740	61.596 mg/L
Spiked Amount 75.000	Recovery =		82.13%
5) S Triacontane	21.18f	6270522	59.936 mg/L
Spiked Amount 75.000	Recovery =		79.91%
Target Compounds			
1) H GRO (c6-c12)	4.00	390676	N.D. mg/L
2) H DRO (c13-c22)	13.00	97132	0.987 mg/L
3) H HRO (c24-c36)	20.00	202990	2.511 mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\102606\1026010.D Vial: 10
Acq On : 26 Oct 2006 8:56 pm Operator: MCM
Sample : D0601625-006.01 10.2g:10mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 8:40 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600917	**Prep Lot:**	DWG0600916	**Report Group:**	D0601625
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	75187	**Prep Date:**	10/25/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025030.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 05:04	**Quant Date:**	10/26/2006 10:21	**Vial:**	24
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-007			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	7141480	69.17	92	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			990980**m**		0.50	U	
Diesel Range Organics (C13-C22	13.00		501140**m**	5.09	0.51	J	
Heavy Range Organics (C24-C3	20.00		694972**m**	8.60	0.86	J	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte coucentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025030.D Vial: 24
Acq On : 26 Oct 2006 5:04 am Operator: MCM
Sample : D0601625-07.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

MCM 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) S Octacosane	20.16	7141480	69.167	mg/L
Spiked Amount 75.000	Recovery =		92.22%	
5) S Triacontane	21.18f	7058578	67.469	mg/L
Spiked Amount 75.000	Recovery =		89.96%	
Target Compounds				
1) H GRO (c6-c12)	4.00	990980	N.D.	mg/L
2) H DRO (c13-c22)	13.00	501140	5.092	mg/L
3) H HRO (c24-c36)	20.00	694972	8.598	mg/L

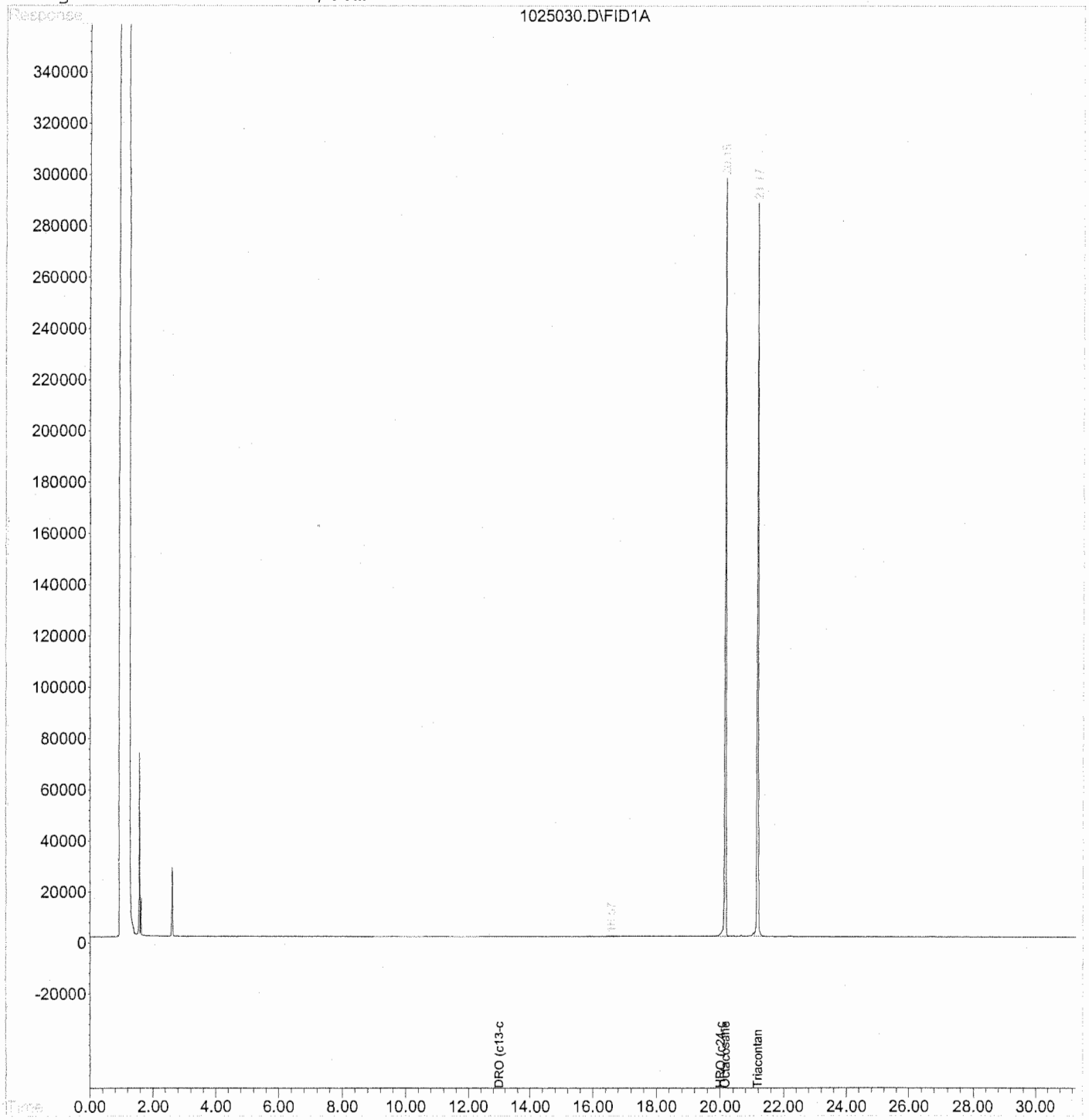
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025030.D Vial: 24
Acq On : 26 Oct 2006 5:04 am Operator: MCM
Sample : D0601625-07.04 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:21 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Quantitation Report

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8015B	**Collect Date:**	10/17/2006	**Receive Date:**	10/19/2006

Analysis Lot:	DWG0600917	**Prep Lot:**	DWG0600916	**Report Group:**	D0601625
Analysis Method:	8015B	**Prep Method:**	EPA 3510M		
Prep Ref:	75188	**Prep Date:**	10/25/2006		

Quant Method:	C:\HPCHEM\1\METHODS\FPQ60915.M	**Calibration ID:**	CAL1210
Title:	Hydrocarbon Scan / Fuel Characterization	**Report List ID:**	LJ1401
		Method ID:	MJ411
MB Ref:	Q:\TARGET\CHEM\GCQ.I\102506S\1025024.D	**Quant based on Report List**	

Data File:	Q:\TARGET\CHEM\GCQ.I\102506S\1025031.D			**Instrument:**	GCQ
Acqu Date:	10/26/2006 05:44	**Quant Date:**	10/26/2006 10:22	**Vial:**	25
Run Type:	SMPL			**Dilution:**	1.0
Lab ID:	D0601625-008			**Soln Conc. Units:**	mg/L

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
Octacosane	20.16	0.00	6970588	67.51	90	50-140	OK	

Target Compounds

Final Conc. Units: mg/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Gasoline Range Organics (C6-C1			446872**m**		0.50	U	
Diesel Range Organics (C13-C22	13.00		325563**m**	3.31	0.44	U	
Heavy Range Organics (C24-C3	20.00		424587**m**	5.25	0.53	J	

Prep Amount:	30.0 ml	**Dilution:**	1.0
Prep Final Vol:	3 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102506S\1025031.D Vial: 25
Acq On : 26 Oct 2006 5:44 am Operator: MCM
Sample : D0601625-08.05 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:22 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Initial Calibration
DataAcq Meth : GCQFC.M

mcm 10/26/06

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S Octacosane	20.16	6970588	67.512 mg/L
Spiked Amount 75.000	Recovery =		90.02%
5) S Triacontane	21.18f	6885763	65.817 mg/L
Spiked Amount 75.000	Recovery =		87.76%
Target Compounds			
1) H GRO (c6-c12)	4.00	446872	N.D. mg/L
2) H DRO (c13-c22)	13.00	325563	3.308 mg/L
3) H HRO (c24-c36)	20.00	424587	5.253 mg/L

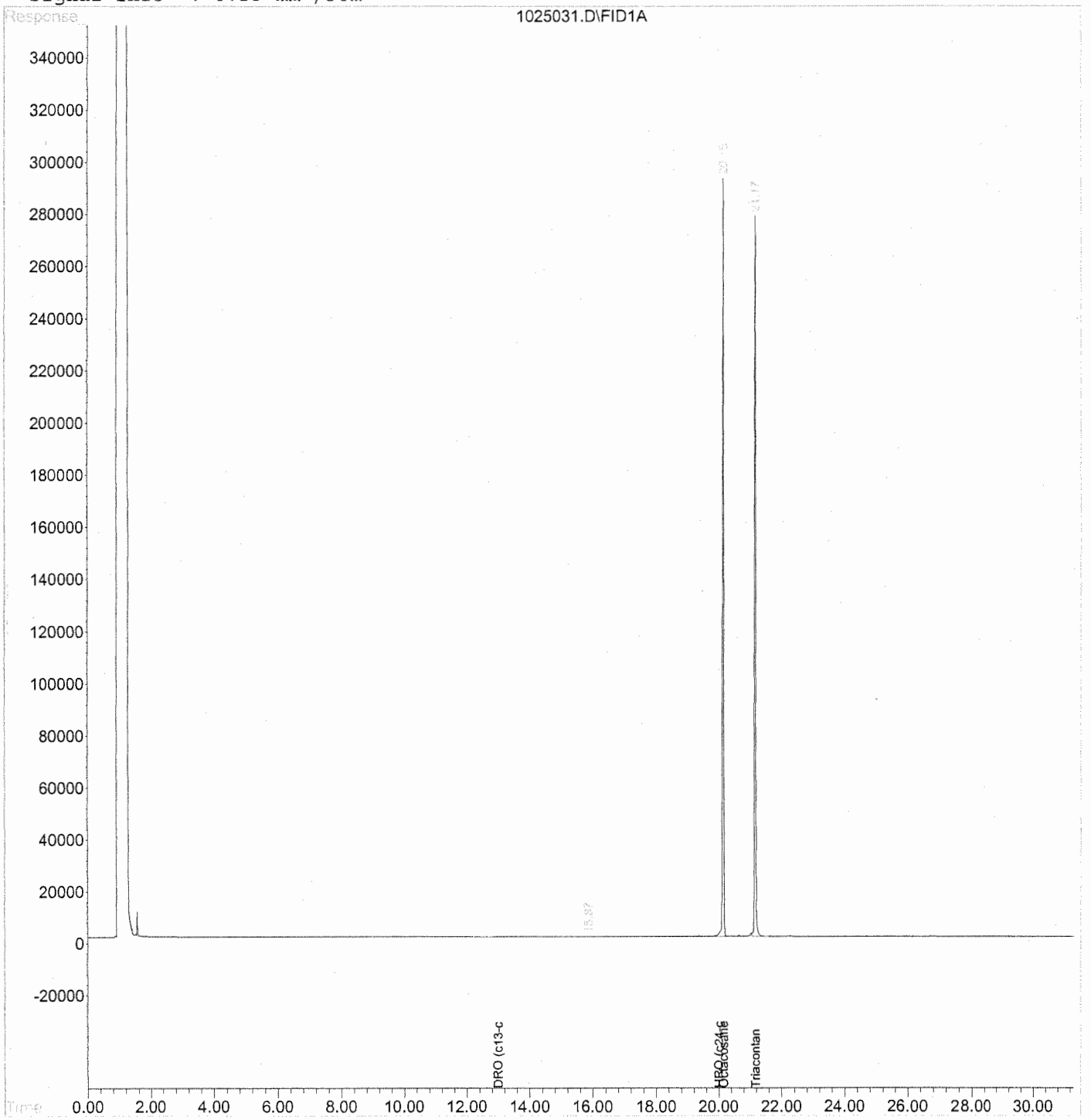
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102506S\1025031.D Vial: 25
Acq On : 26 Oct 2006 5:44 am Operator: MCM
Sample : D0601625-08.05 30mL:3mL Inst : GCQ
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 10:22 2006 Quant Results File: FPQ60915.RES

Quant Method : C:\HPCHEM\1\METHODS\FPQ60915.M (Chemstation Integrator)
Title : FC6-36 (GRO/DRO/HRO) Calibration
Last Update : Mon Oct 23 09:57:52 2006
Response via : Multiple Level Calibration
DataAcq Meth : GCQFC.M

Volume Inj. : 5uL
Signal Phase : RTX-5
Signal Info : 0.53 mm /30m



Support Documents

Sequence Name: C:\HPCHEM\1\SEQUENCE\102606.S
Comment:
Operator: MCM
Data Path: C:\HPCHEM\1\DATA\102606\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

MCM 10/27/06

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	1	1026001	GCQFC	Instrument Blk (DCM/SS)
2	PEM	2	1026002	GCQFC	RT Marker c6_c40
3	CCV	3	1026003	GCQFC	500ppm GAS/DSL/OIL CCV
4	MB	4	1026004	GCQFC	mb 10/23/06 soil
5	LCS	5	1026005	GCQFC	lcs 10/23/06 soil
6	SMPL	6	1026006	GCQFC	D0601607-001.05 10.1g:10mL
7	SMPL	7	1026007	GCQFC	D0601625-001.01 10g:10mL
8	MS	8	1026008	GCQFC	D0601625-001.01ms 10g:10mL
9	DMS	9	1026009	GCQFC	D0601625-001.01dms 10g:10mL
10	SMPL	10	1026010	GCQFC	D0601625-006.01 10.2g:10mL
11	CCV	11	1026011	GCQFC	1000ppm GAS/DSL/OIL CCV
12	SOLV	12	1026012	GCQFC	wash blk
13	SMPL	13	1026013	GCQFC	D0601560-001.01 10g:10mL 5x
14	SOLV	12	1026014	GCQFC	wash blk
15	SMPL	14	1026015	GCQFC	D0601560-001.01 10g:10mL
16	SOLV	12	1026016	GCQFC	wash blk
17	SOLV	12	1026017	GCQFC	wash blk
18	SOLV	12	1026018	GCQFC	wash blk
19	CCV	3	1026019	GCQFC	500ppm GAS/DSL/OIL CCV
20	SOLV	12	1026020	GCQFC	wash blk
21	MB	15	1026021	GCQFC	mb 10/26/06 soil
22	LCS	16	1026022	GCQFC	lcs 10/26/06 soil
23	DLCS	17	1026023	GCQFC	dlcs 10/26/06 soil
24	SMPL	18	1026024	GCQFC	P0600153-001.01 10g:10ml 10x
25	SMPL	19	1026025	GCQFC	P0600153-001.01 10g:10ml
26	MS	20	1026026	GCQFC	P0600153-001.01ms 10g:10ml
27	DMS	21	1026027	GCQFC	P0600153-001.01dms 10g:10ml
28	CCV	11	1026028	GCQFC	1000ppm GAS/DSL/OIL CCV
29					

Prep: DWG0600919

Prep: DWG0600920

Analysis: DWG0600921

Last Modified: Fri Oct 27 08:34:24 2006 Page: 1

Sequence Name: C:\HPCHEM\1\SEQUENCE\102506.S
Comment:
Operator: MCM
Data Path: C:\HPCHEM\1\DATA\102506\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

JMCM 10/26/06

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	1	1025001	GCQFC	Instrument Blk (DCM/SS)
2	PEM	2	1025002	GCQFC	RT Marker c6_c40
3	CCV	3	1025003	GCQFC	500ppm GAS/DSL/OIL CCV
4	MB	4	1025004	GCQFC	mb 10/17/06 LL wtr
5	LCS	5	1025005	GCQFC	lcs 10/17/06 LL wtr
6	DLCS	6	1025006	GCQFC	dlcs 10/17/06 LL wtr
7	SOLV	7	1025007	GCQFC	wash blk
8	SMPL	8	1025008	GCQFC	D0601587-002.12 1.02L>>1mL
9	SMPL	9	1025009	GCQFC	D0601587-004.04 1.00L>>1mL
10	SMPL	10	1025010	GCQFC	D0601587-006.05 1.05L>>1mL
11	SMPL	11	1025011	GCQFC	D0601587-008.14 1.04L>>1mL
12	SOLV	7	1025012	GCQFC	wash blk
13	CCV	12	1025013	GCQFC	1000ppm GAS/DSL/OIL CCV
14	SOLV	7	1025014	GCQFC	wash blk
15	MB	13	1025015	GCQFC	mb 10/23/06 LL wtr
16	LCS	14	1025016	GCQFC	lcs 10/23/06 LL wtr
17	DLCS	15	1025017	GCQFC	dlcs 10/23/06 LL wtr
18	SOLV	7	1025018	GCQFC	wash blk
19	SMPL	16	1025019	GCQFC	D0601626-007.10 1.05L>>1mL
20	SMPL	17	1025020	GCQFC	D0601628-019.11 1.05L>>1mL
21	SOLV	7	1025021	GCQFC	wash blk
22	CCV	3	1025022	GCQFC	500ppm GAS/DSL/OIL CCV
23	SOLV	7	1025023	GCQFC	wash blk
24	MB	18	1025024	GCQFC	mb 10/25/06 wtr
25	LCS	19	1025025	GCQFC	lcs 10/23/06 wtr
26	DLCS	20	1025026	GCQFC	dlcs 10/23/06 wtr
27	SMPL	21	1025027	GCQFC	D0601625-02.04 30mL:3mL
28	SMPL	22	1025028	GCQFC	D0601625-04.04 30mL:3mL
29	SMPL	23	1025029	GCQFC	D0601625-05.04 30mL:3mL
30	SMPL	24	1025030	GCQFC	D0601625-07.04 30mL:3mL
31	SMPL	25	1025031	GCQFC	D0601625-08.05 30mL:3mL
32	SMPL	26	1025032	GCQFC	D0601625-09.04 30mL:3mL
33	CCV	12	1025033	GCQFC	1000ppm GAS/DSL/OIL CCV

Prep: DWG0600911
Analysis DWG0600912

Prep: DWG0600913
Analysis: DWG0600912

Prep: DWG0600916
Analysis: DWG0600917

Last Modified: Wed Oct 25 16:06:17 2006 Page: 1

Shaken VOA
~~Separatory Funnel~~ Extraction, 3510C

Total Fuel Hydrocarbon Water

Date	10/25/2006
Time	12:42

Date sampled	10/17/2006

Analytical Method(s)

- ☐ TFHD, 8015B
- ☐ DRO by 3520C
- ☐ DRAX, AK102.0
- ☒ Other Fuelscan

Solvent Lots

DCM	46210

Spikes

Surrogate	14 -EXS- 26A		
Amt.	0.023 ml	*Exp:*	8/25/07
Spike	4-S-GC-~~EXS~~- 22C-3		
Amt.	0.018 ml	*Exp:*	10/20/07
Spiked by	MGM	**Witness**	—

Comments:

Each VOA vial was shaken by hand for 2 minutes each.

Batches: D060 1625

Client(s): GeoSyntec Consultants

Test Code(s)	Spikes		Amt	Final KD	Relinq.
	Surrogate	Spike 1	mL.	H2O bath temp °C Date & Volume	DCM Volume Date
Sample ID	X	X	By:	By:	By:
DWB1	X		30.0		3.0
~~DWB2~~					
DWL1	X	X	30.0		3.0
DWL2	X	X	30.0		3.0
D0601625-02.04	X				
-04.04	X				
-05.04	X				
-07.04	X				
-08.05	X				
-09.04	X				

☐ Completed ms/msd

☒ Sample limited, no ms/msd, duplicate LCS

008

Peer Review By:

Organic Extractions Dept.
CAS-Redding

~~Ultrasonic~~ *Extraction, 3550B*

shakeout

Total Fuel Hydrocarbon Soil

Date	10/23/2006
Time	13:46

MCM

Analytical Method(s)

- [ ] TFHD, 8015B
- [ ] Medium Level, 8015B
- [ ] DRO
- [ ] DRAX, AK102.0
- [x] Other FC

Solvent Lots

DCM 460210

Spikes

Surrogate 14-EXS-26A

Amt. 75UL ~~mL~~ Exp: 8/25/07

Spike 45-GC ~~EXS~~-22A-3

Amt. 600UL ~~mL~~ Exp: 9/11/07

Spiked by MCM Witness —

Comments: Each VOA vial was shaken by hand for 2 min. each.

Batches: D0601607, D0601560, Geosyntec D0601625

Client(s): Environet, Valley Well Drilling, Geosyntec

Test Code(s)	Spikes		Amt	Final KD	Relinq.
	Surrogate	Spike	(10g)	H2O bath temp °C	DCM Volume
Sample ID	X	X	By:	Date & Volume By:	Date By:
DSB1	X		10.0		10.0
DSL1	X	X	10.0		10.0
~~DSL2~~					
D0601560-01.01	X		10.0		10.0
D0601607-01.05	X		10.1		10.0
D0601625.01.01	X		10.0		10.0
-01.01MS	X	X	10.0		10.0
-01.01MSD	X	X	10.0		10.0
-06.01	X		10.2		10.0

[x] Completed ms/msd

[ ] Sample limited, no ms/msd, duplicate LCS

086

Peer Review By:

Organic Extractions Dept.
CAS-Redding

GC/MS VOLATILE ORGANICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625

Cover Page - Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
T-52-56.5	D0601625-001	10/17/2006	10/19/2006
T-52-GW11	D0601625-002	10/17/2006	10/19/2006
QCEB	D0601625-003	10/17/2006	10/19/2006
T-52-GW26	D0601625-004	10/17/2006	10/19/2006
T-52-GW37	D0601625-005	10/17/2006	10/19/2006
T-53-S7	D0601625-006	10/17/2006	10/19/2006
T-53-GW11	D0601625-007	10/17/2006	10/19/2006
T-53-GW26	D0601625-008	10/17/2006	10/19/2006
T-53-GW38	D0601625-009	10/17/2006	10/19/2006

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: BMM

Name: Brian Moore

Date: 10/27/06

Title: Technical Manager

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-52-56.5
Lab Code: D0601625-001
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloromethane	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Chloride	ND	U	0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromomethane	ND	U	5.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroethane	ND	U	1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichlorofluoromethane (CFC 11)	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
Acetone	**5.6**	J	5.1	25	1	10/20/2006	10/20/2006	U1020S01	
Carbon Disulfide	ND	U	0.62	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dichloromethane (Methylene Chloride)	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,2-Dichloroethene	ND	U	0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
Methyl tert-Butyl Ether	ND	U	0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Acetate	ND	U	0.47	5.0	1	10/20/2006	10/20/2006	U1020S01	
2,2-Dichloropropane	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,2-Dichloroethene	ND	U	0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Butanone (MEK)	ND	U	5.0	25	1	10/20/2006	10/20/2006	U1020S01	
Bromochloromethane	ND	U	0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroform	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1-Trichloroethane (TCA)	ND	U	0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloropropene	ND	U	0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
Carbon Tetrachloride	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
Benzene	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloroethane (EDC)	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichloroethene (TCE)	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloropropane	ND	U	0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dibromomethane	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromodichloromethane	ND	U	0.74	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,3-Dichloropropene	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Methyl-2-pentanone (MIBK)	ND	U	6.1	25	1	10/20/2006	10/20/2006	U1020S01	
Toluene	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,3-Dichloropropene	ND	U	0.65	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichloroethane	ND	U	0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
Tetrachloroethene (PCE)	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichloropropane	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Hexanone	ND	U	7.7	25	1	10/20/2006	10/20/2006	U1020S01	
Dibromochloromethane	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-52-56.5
Lab Code: D0601625-001
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chlorobenzene	ND	U	0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1,2-Tetrachloroethane	ND	U	0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
Ethylbenzene	ND	U	0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
Xylenes, Total	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Styrene	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromoform	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Isopropylbenzene	ND	U	0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2,2-Tetrachloroethane	ND	U	0.61	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromobenzene	ND	U	0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichloropropane	ND	U	1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Propylbenzene	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Chlorotoluene	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3,5-Trimethylbenzene	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Chlorotoluene	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
tert-Butylbenzene	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trimethylbenzene	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
sec-Butylbenzene	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichlorobenzene	ND	U	0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Isopropyltoluene	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,4-Dichlorobenzene	ND	U	0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Butylbenzene	ND	U	0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichlorobenzene	ND	U	1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	3.2	25	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trichlorobenzene	ND	U	1.2	5.0	1	10/20/2006	10/20/2006	U1020S01	
Hexachlorobutadiene	ND	U	1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Naphthalene	ND	U	1.6	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichlorobenzene	ND	U	1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	88	70-148	10/20/2006	
4-Bromofluorobenzene - SS	98	69-138	10/20/2006	
Dibromofluoromethane - SS	94	74-131	10/20/2006	
Toluene-d8 - SS	95	77-132	10/20/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064415.D
Lab Smp Id: D0601625-001 Client Smp ID: T-52-56.5
Inj Date : 20-OCT-2006 18:36
Operator : Reggie Inst ID: MSU.i
Smp Info : D0601625-001
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\8260s5.m
Meth Date : 26-Oct-2006 09:35 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 16:41 Cal File: U064376.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12

Concentration Formula: Amt * DF * UF*5/(Ws*((100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
*	1 Fluorobenzene	96	6.435	6.435	(1.000)	1847399	50.0000	
*	2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1287283	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.088	13.098	(1.000)	307648	50.0000	
$	5 Dibromofluoromethane	113	5.564	5.564	(0.865)	478877	46.9221	46.92
$	6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	620916	43.8641	43.86
$	7 Toluene-d8	98	8.450	8.450	(0.827)	1616885	47.3316	47.33
$	8 Bromofluorobenzene	174	11.680	11.680	(0.892)	422626	48.7522	48.75
	9 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	Compound Not Detected.					
	12 Bromomethane	94	Compound Not Detected.					
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	16 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	18 1,1-Dichloroethene	96	Compound Not Detected.					
	19 Acetone	43	2.637	2.637	(0.410)	22609	5.63606	5.64(a)
	21 Carbon disulfide	76	Compound Not Detected.					
	23 Methylene chloride	84	Compound Not Detected.					
	26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	27 tert-Butylmethylether	73	Compound Not Detected.					
	29 1,1-Dichloroethane	63	Compound Not Detected.					

10/26/06

10-26-06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	30 Vinyl acetate	43	Compound Not Detected.					
	32 2,2-Dichloropropane	77	Compound Not Detected.					
	33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
M	34 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	35 2-Butanone	43	Compound Not Detected.					
	36 Bromochloromethane	128	Compound Not Detected.					
	37 Chloroform	83	Compound Not Detected.					
	38 1,1,1-Trichloroethane	97	Compound Not Detected.					
	39 1,1-Dichloropropene	75	Compound Not Detected.					
	40 Carbon tetrachloride	119	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	43 1,2-Dichloroethane	62	6.435	6.101	(1.000)	32235	1.96264	1.96(a)
	44 Trichloroethene	95	Compound Not Detected.					
	45 1,2-Dichloropropane	63	Compound Not Detected.					
	47 Dibromomethane	93	Compound Not Detected.					
	48 Bromodichloromethane	83	Compound Not Detected.					
	50 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	51 4-Methyl-2-pentanone	58	Compound Not Detected.					
	52 Toluene	92	Compound Not Detected.					
	53 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	54 1,1,2-Trichloroethane	83	Compound Not Detected.					
	55 Tetrachloroethene	166	Compound Not Detected.					
	56 1,3-Dichloropropane	76	Compound Not Detected.					
	57 2-Hexanone	43	Compound Not Detected.					
	58 Dibromochloromethane	129	Compound Not Detected.					
	59 1,2-Dibromoethane	107	Compound Not Detected.					
	61 Chlorobenzene	112	Compound Not Detected.					
	62 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	63 Ethylbenzene	91	Compound Not Detected.					
	64 m-,p-Xylene	106	Compound Not Detected.					
	65 o-Xylene	106	Compound Not Detected.					
M	66 Xylene (total)	106	Compound Not Detected.					
	67 Styrene	104	Compound Not Detected.					
	68 Bromoform	173	Compound Not Detected.					
	69 Isopropylbenzene	105	Compound Not Detected.					
	70 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 1,2,3-Trichloropropane	110	Compound Not Detected.					
	74 n-Propylbenzene	120	Compound Not Detected.					
	76 2-Chlorotoluene	126	Compound Not Detected.					
	77 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	78 4-Chlorotoluene	126	Compound Not Detected.					
	79 tert-Butylbenzene	119	Compound Not Detected.					
	80 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	81 sec-Butylbenzene	105	Compound Not Detected.					
	82 1,3-Dichlorobenzene	146	Compound Not Detected.					
	83 p-Isopropyltoluene	119	Compound Not Detected.					
	84 1,4-Dichlorobenzene	146	Compound Not Detected.					
	85 n-Butylbenzene	91	Compound Not Detected.					
	86 1,2-Dichlorobenzene	146	Compound Not Detected.					
	87 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
	88 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	89 Hexachlorobutadiene	225	Compound Not Detected.					
	90 Naphthalene	128	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
91 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064415.D

Date : 20-OCT-2006 18:36

Client ID: T-52-56.5

Instrument: MSU.i

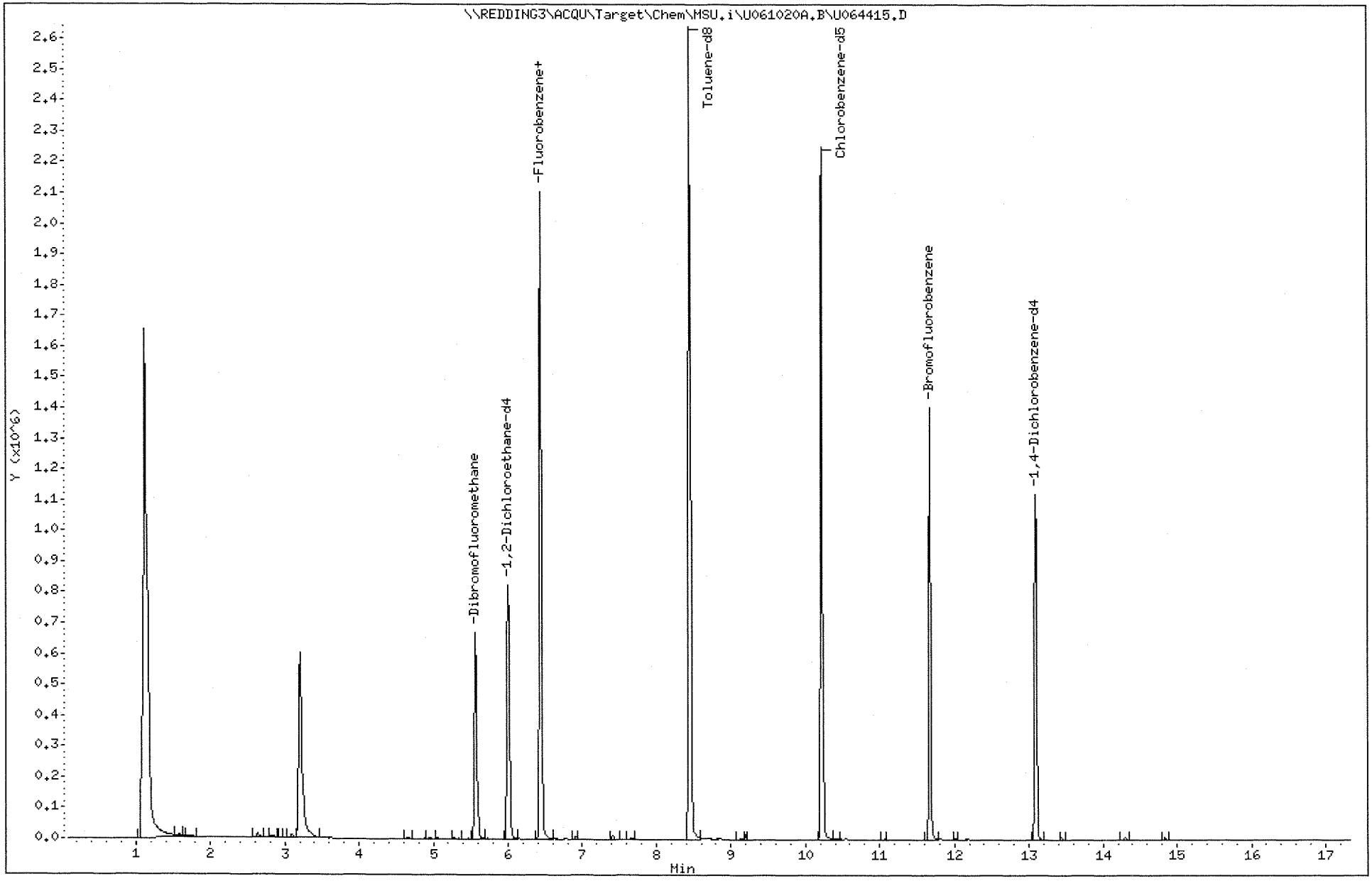
Sample Info: D0601625-001

Purge Volume: 10.0

Operator: Reggie

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064415.D

Date : 20-OCT-2006 18:36

Client ID: T-52-56.5

Instrument: MSU.i

Sample Info: D0601625-001

Purge Volume: 10.0

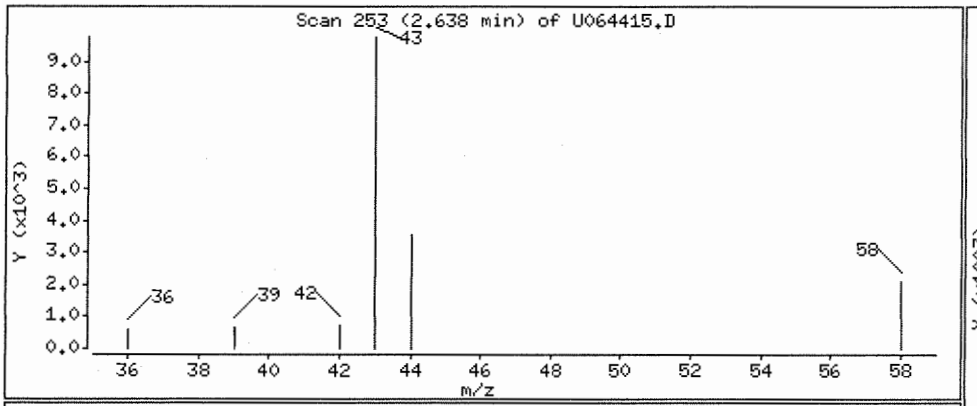
Operator: Reggie

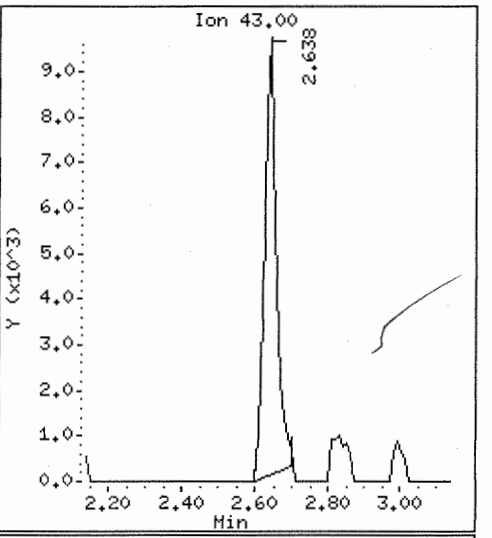
Column phase: DB-624

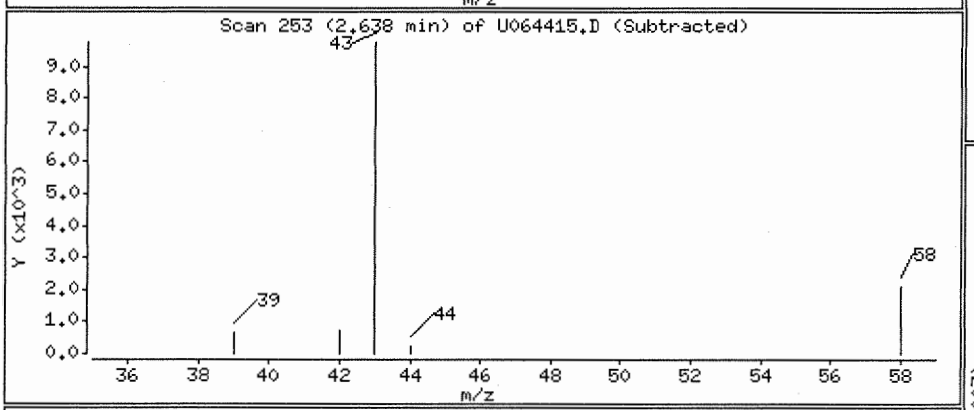
Column diameter: 0.32

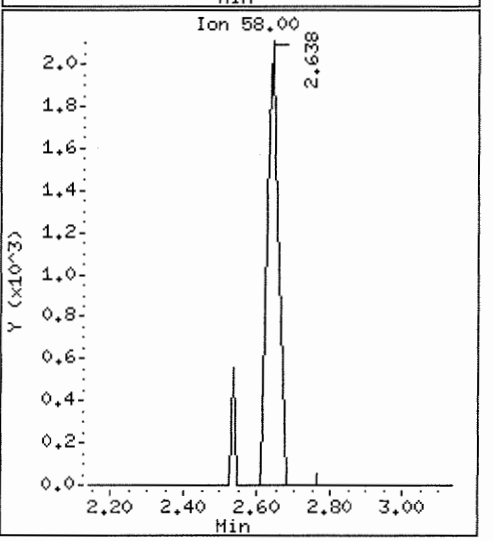
19 Acetone

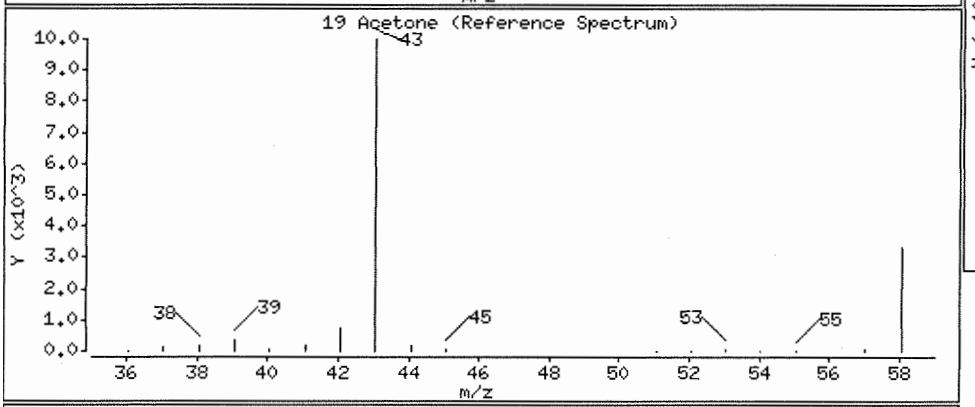
Concentration: 5.64 ug/Kg

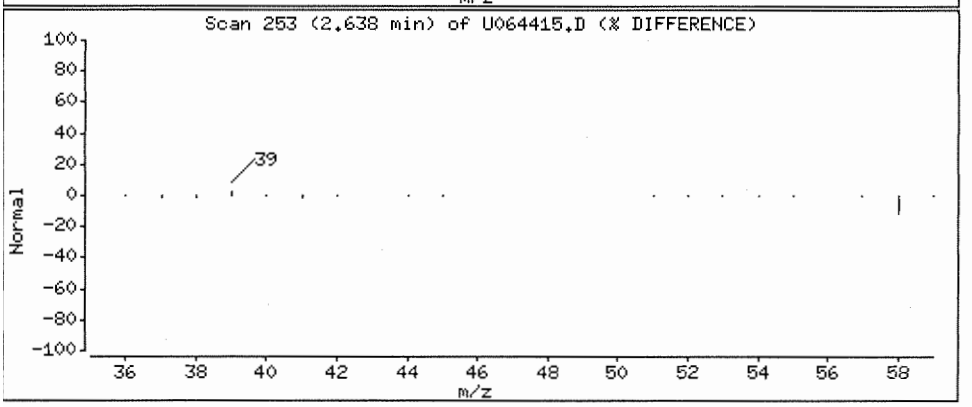












Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064415.D

Date : 20-OCT-2006 18:36

Client ID: T-52-56.5

Instrument: MSU.i

Sample Info: D0601625-001

Purge Volume: 10.0

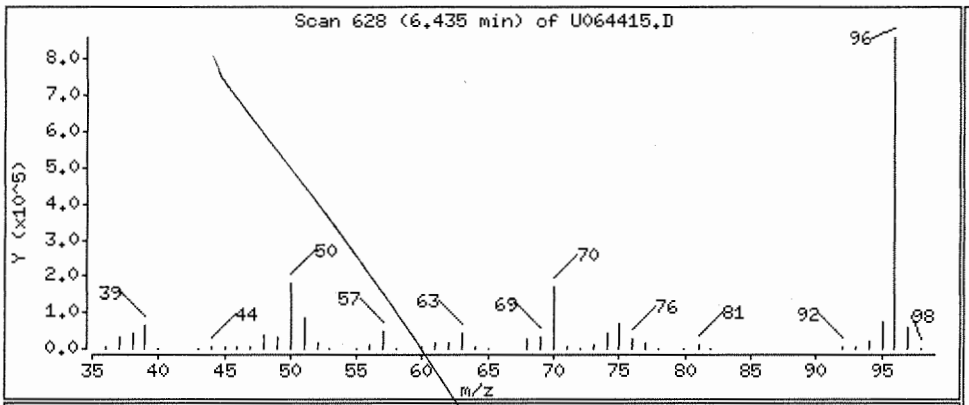
Operator: Reggie

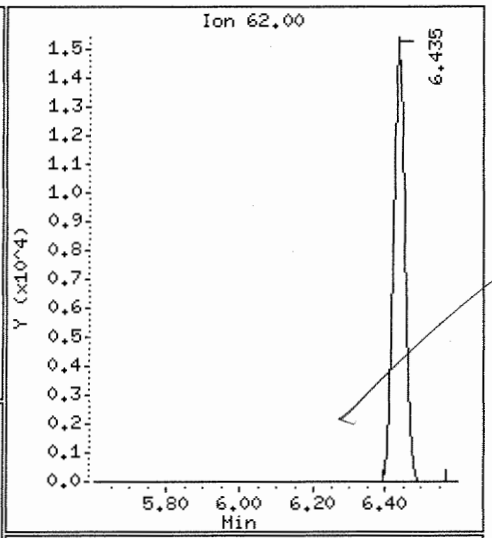
Column phase: DB-624

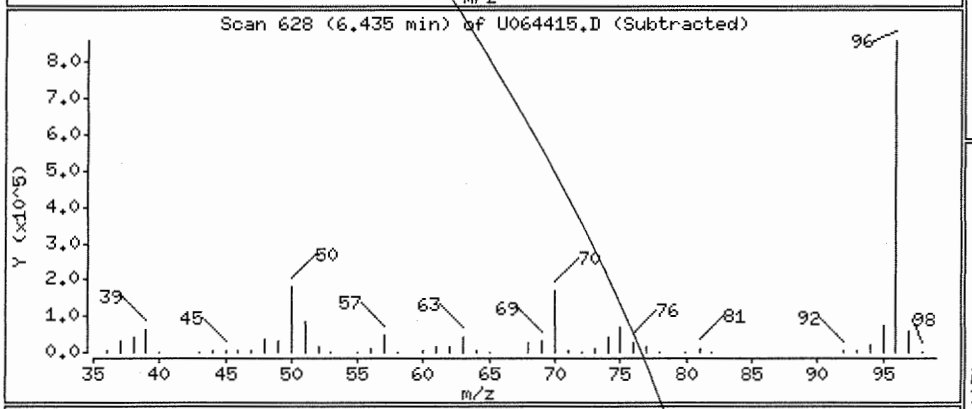
Column diameter: 0.32

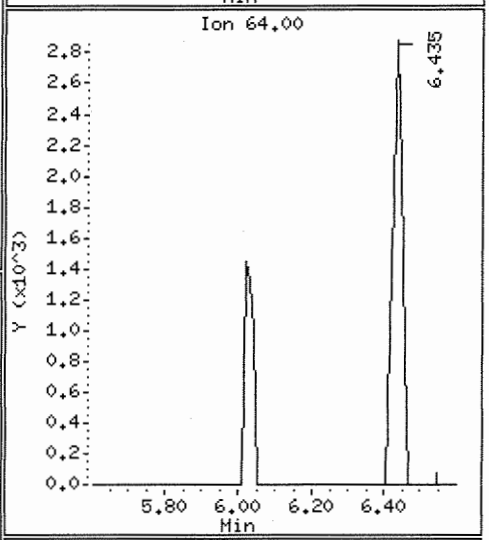
43 1,2-Dichloroethane

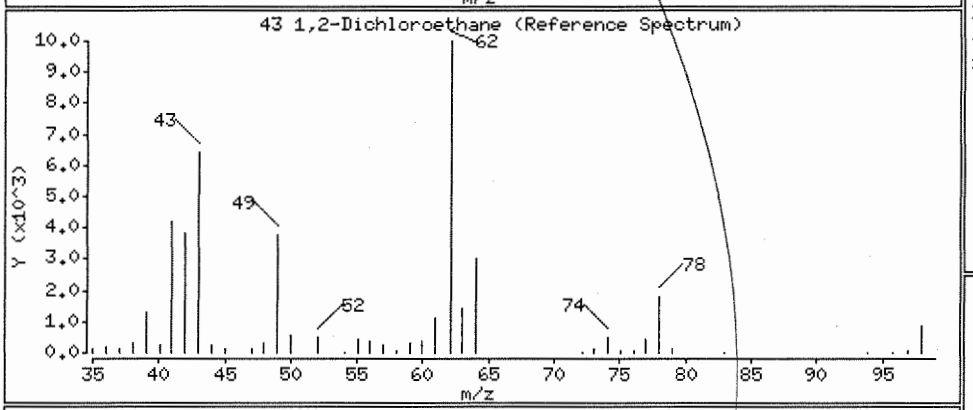
Concentration: 1.96 ug/Kg

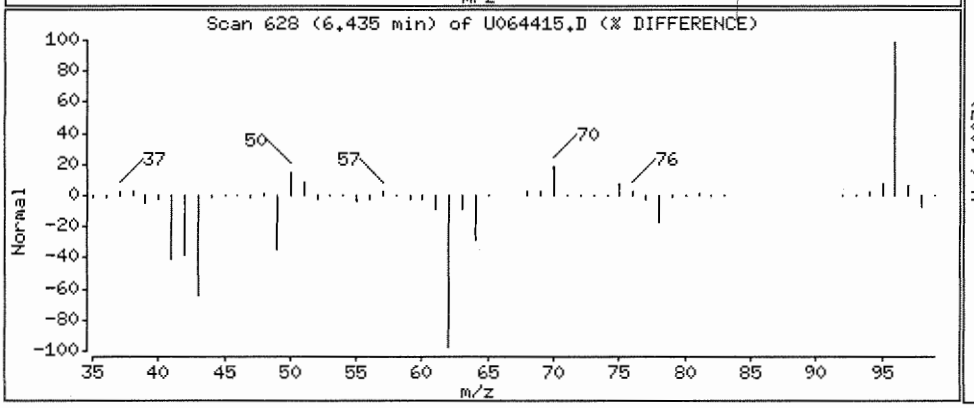


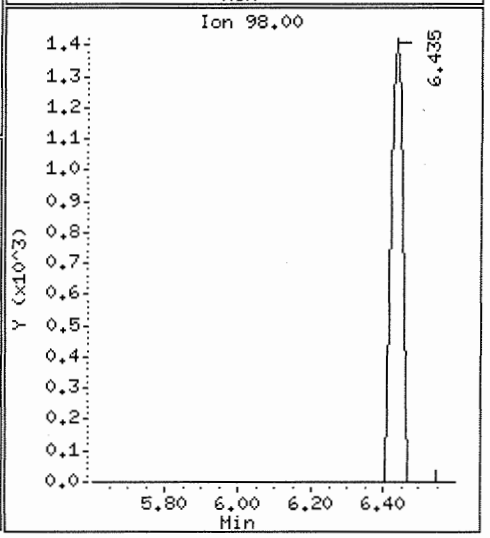












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-52-GW11
Lab Code: D0601625-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.5	10	10	10/26/2006	10/26/2006	K1025W02	
Chloromethane	ND	U	2.4	10	10	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	**2.7**	J	1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
Bromomethane	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
Chloroethane	ND	U	1.8	10	10	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	ND	U	1.8	10	10	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	ND	U	1.5	20	10	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	**250**		1.5	5.0	10	10/26/2006	10/26/2006	K1025W02	
Acetone	ND	U	9.1	100	10	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	**1.7**	J	1.4	20	10	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	ND	U	1.9	20	10	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	**25**		1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	ND	U	1.1	20	10	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	**20**		1.1	5.0	10	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	ND	U	2.4	100	10	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	ND	U	1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	ND	U	6.6	100	10	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	ND	U	1.7	5.0	10	10/26/2006	10/26/2006	K1025W02	
Chloroform	**1.9**	J	1.3	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	ND	U	1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	ND	U	1.4	5.0	10	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	ND	U	1.3	5.0	10	10/26/2006	10/26/2006	K1025W02	
Benzene	ND	U	1.3	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	**3.7**	J	1.0	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	ND	U	1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	ND	U	1.5	5.0	10	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	ND	U	1.4	10	10	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	ND	U	1.4	5.0	10	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	ND	U	5.6	100	10	10/26/2006	10/26/2006	K1025W02	
Toluene	ND	U	1.3	5.0	10	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	ND	U	0.90	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	ND	U	1.5	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	ND	U	1.1	5.0	10	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	ND	U	4.9	100	10	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	ND	U	1.2	10	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromoethane (EDB)	ND	U	1.9	10	10	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	ND	U	1.2	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,1,1,2-Tetrachloroethane	ND	U	1.9	5.0	10	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-52-GW11
Lab Code: D0601625-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.1	5.0	10	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	ND	U	1.0	15	10	10/26/2006	10/26/2006	K1025W02	
Styrene	ND	U	0.70	5.0	10	10/26/2006	10/26/2006	K1025W02	
Bromoform	ND	U	1.8	10	10	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	ND	U	2.0	5.0	10	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	ND	U	1.3	10	10	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichloropropane	ND	U	2.0	5.0	10	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	ND	U	1.1	10	10	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	ND	U	1.4	10	10	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	ND	U	0.80	10	10	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	ND	U	0.80	10	10	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	ND	U	1.5	5.0	10	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	ND	U	0.60	10	10	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	ND	U	1.4	5.0	10	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	ND	U	1.0	10	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	ND	U	1.2	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	9.5	20	10	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	ND	U	1.1	10	10	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	ND	U	2.6	10	10	10/26/2006	10/26/2006	K1025W02	
Naphthalene	ND	U	1.0	10	10	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	ND	U	1.5	10	10	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	**1100**	D	14	50	100	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	**1600**	D	14	50	100	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	**3200**	D	9.0	50	100	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	110	79-135	10/26/2006	
4-Bromofluorobenzene - SS	113	82-124	10/26/2006	
Dibromofluoromethane - SS	117	84-127	10/26/2006	
Toluene-d8 - SS	101	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D
Lab Smp Id: D0601625-002 Client Smp ID: T-52-GW11
Inj Date : 26-OCT-2006 08:46
Operator : X Inst ID: MSK.i
Smp Info : D0601625-002
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 46
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

10/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.714	9.733	(1.000)	1889262	10.0000	
* 2	Chlorobenzene-d5	117	13.061	13.065	(1.000)	1078598	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.664	15.668	(1.000)	285524	10.0000	
$ 4	Dibromofluoromethane	113	8.911	8.930	(0.917)	640969	11.6725	11.7
$ 5	1,2-Dichloroethane-d4	65	9.327	9.331	(0.960)	618734	11.0184	11.0
$ 6	Toluene-d8	98	11.469	11.473	(0.878)	1423566	10.1393	10.1
$ 7	Bromofluorobenzene	174	14.325	14.329	(0.915)	323061	11.3243	11.3
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	4.077	4.081	(0.420)	9970	0.26782	2.68(a)
12	Bromomethane	94	4.255	4.691	(0.438)	2824	0.09614	~~0.961(aQ)~~
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	6.100	6.104	(0.628)	928027	25.4146	254
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	6.472	6.490	(0.666)	28205	0.17028	1.70(a)
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	7.141	7.145	(0.735)	116509	2.48694	24.9
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	7.662	7.680	(0.789)	181097	1.95560	19.6
30	Vinyl acetate	43	Compound Not Detected.					

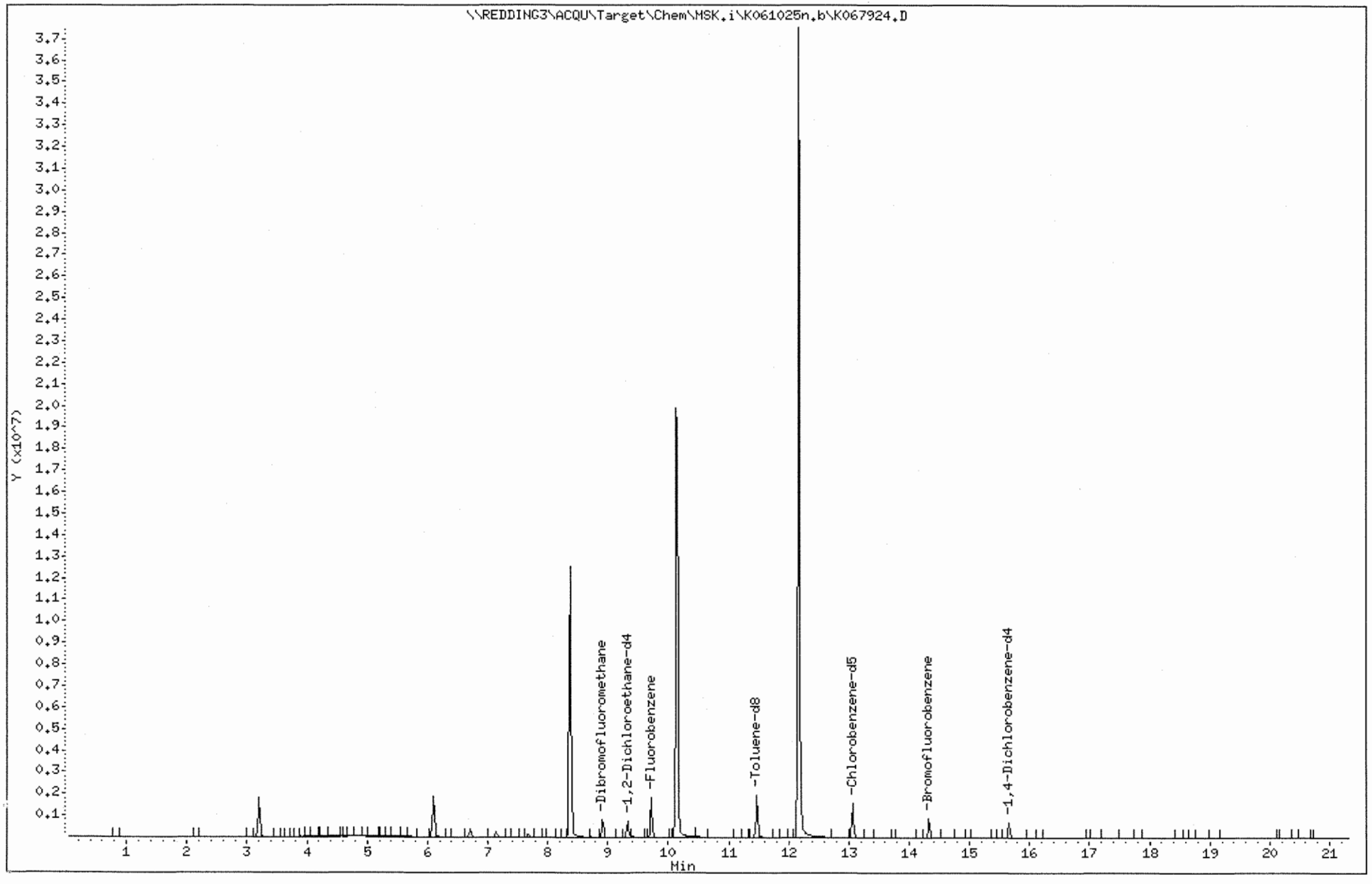
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.375	8.379	(0.862)	6221600	118.972	1190(A)
35	2-Butanone	43	8.361	8.350	(0.861)	6577	1.12780	~~11.3(aQ)~~
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.732	8.736	(0.899)	18715	0.19150	1.92(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.417	9.421	(0.969)	25321	0.37268	3.73(a)
45	Trichloroethene	95	10.131	10.149	(1.043)	8848849	164.501	1640(A)
46	1,2-Dichloropropane	63	10.131	10.387	(1.043)	36383	0.64413	~~6.44(Q)~~
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.168	11.949	(0.932)	307184	8.34593	~~83.4(Q)~~
56	Tetrachloroethene	166	12.168	12.172	(0.932)	15036778	286.417	2860(A)
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	12.168	12.410	(0.932)	10778774	216.668	~~2170(AQ)~~
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D
Date : 26-OCT-2006 08:46
Client ID: T-52-GW11
Sample Info: D0601625-002
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

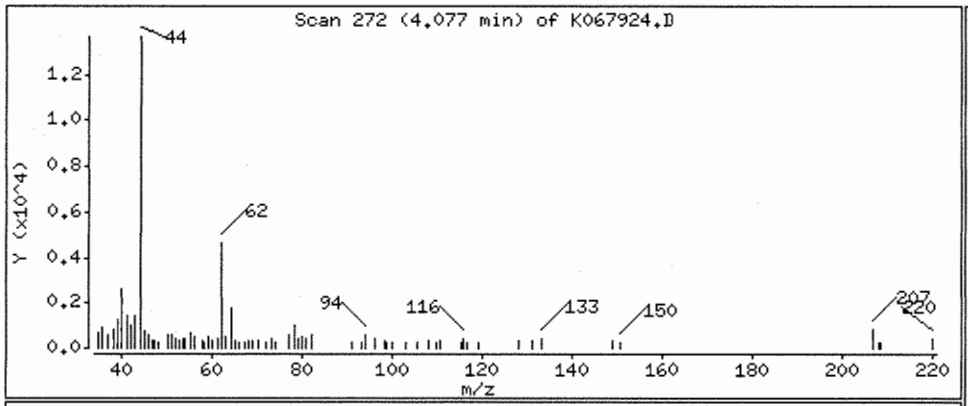
Client ID: T-52-GW11 Instrument: MSK.i

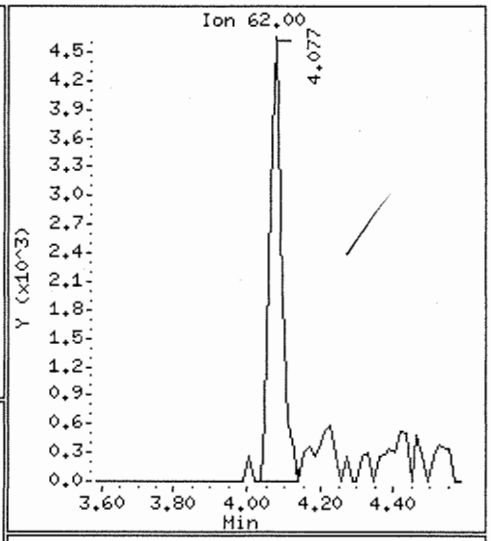
Sample Info: D0601625-002

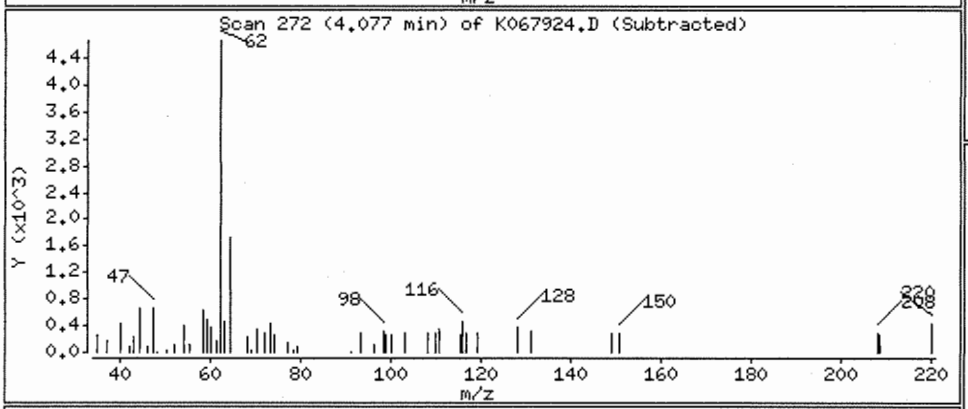
Purge Volume: 10.0 Operator: X

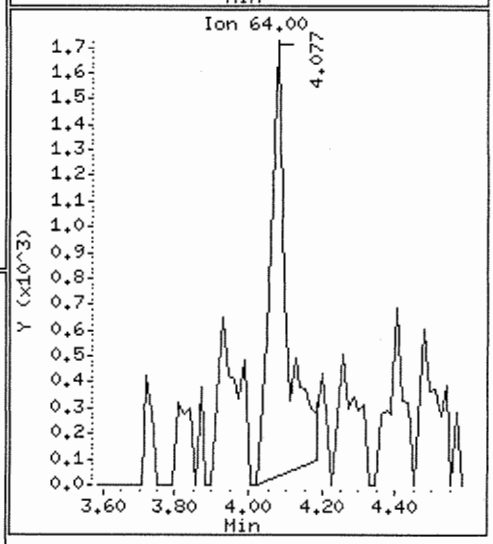
Column phase: DB-624 Column diameter: 0.32

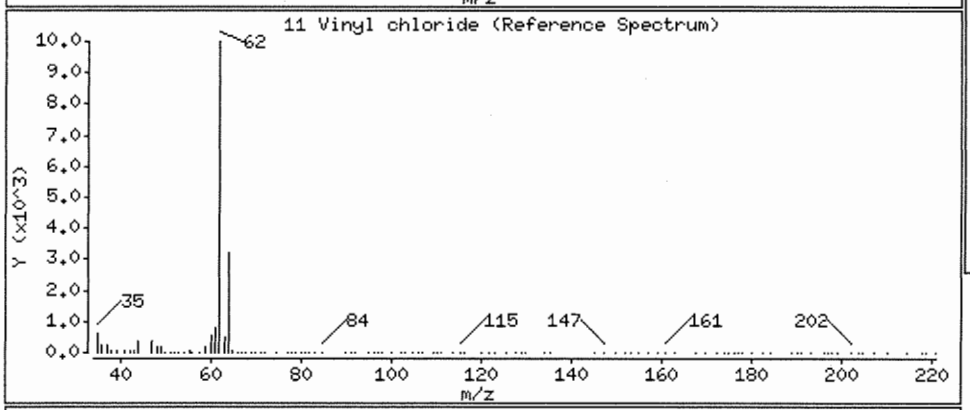
11 Vinyl chloride Concentration: 2.68 ug/L

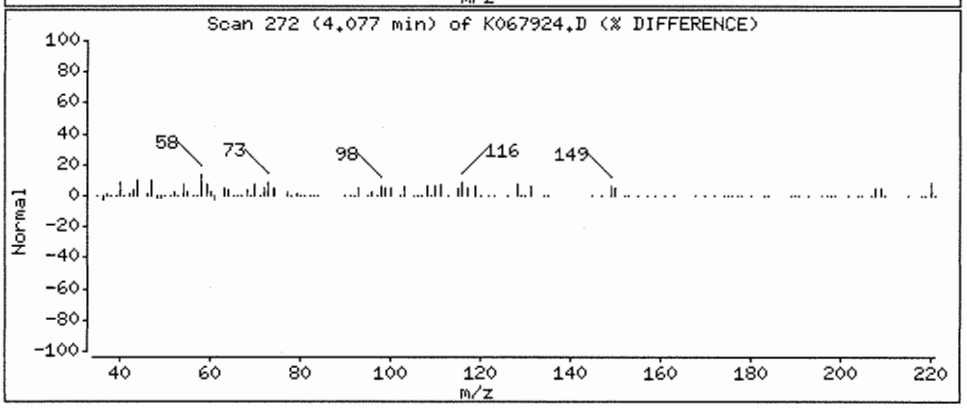












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

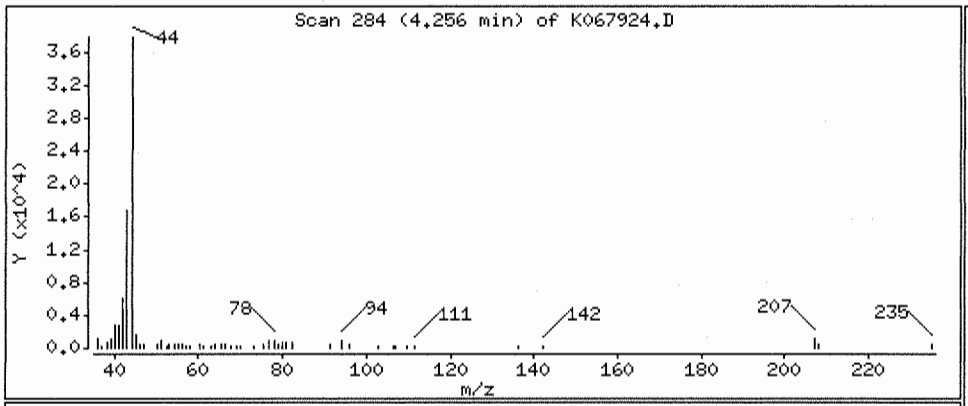
Client ID: T-52-GW11 Instrument: MSK.i

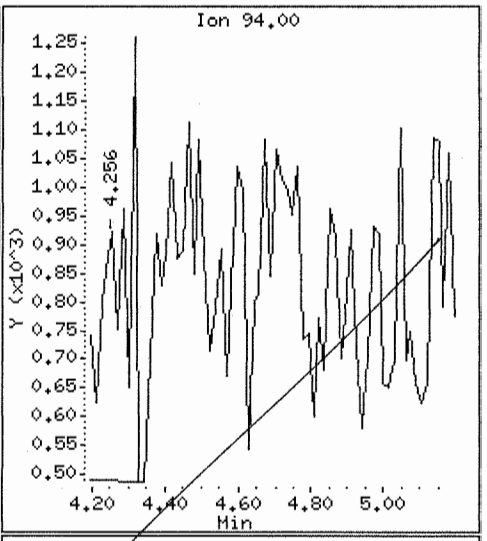
Sample Info: D0601625-002

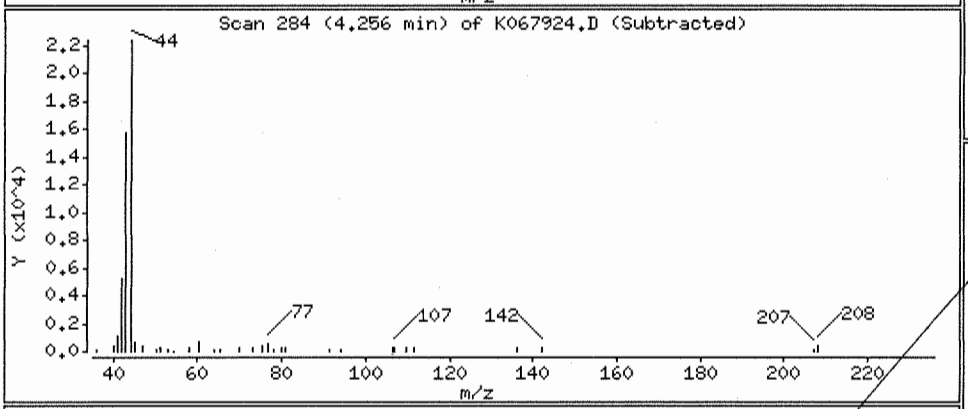
Purge Volume: 10.0 Operator: X

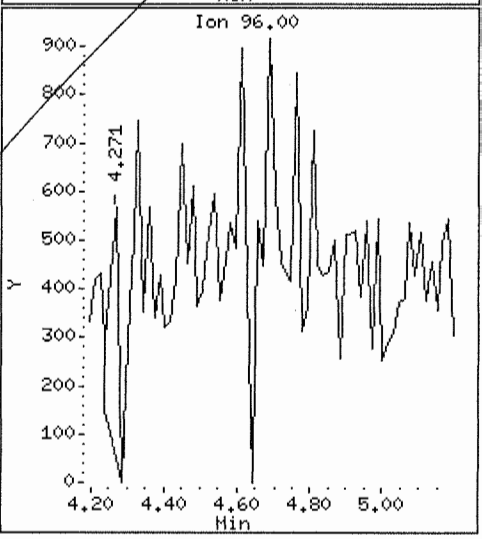
Column phase: DB-624 Column diameter: 0.32

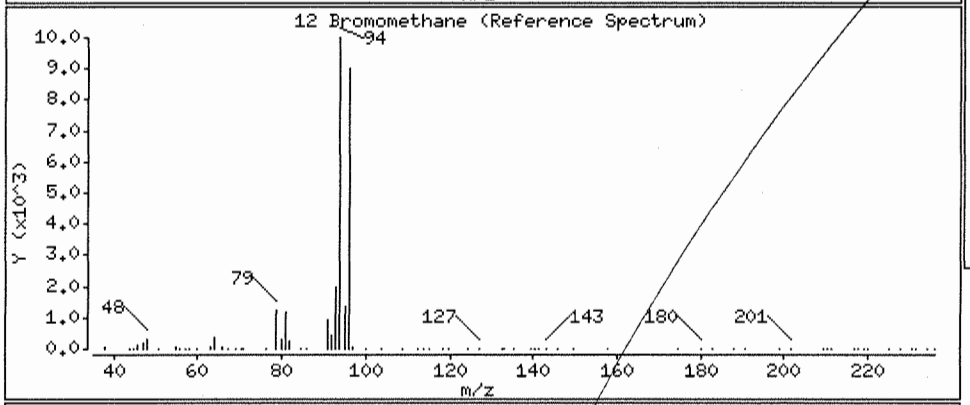
12 Bromomethane Concentration: 0.961 ug/L

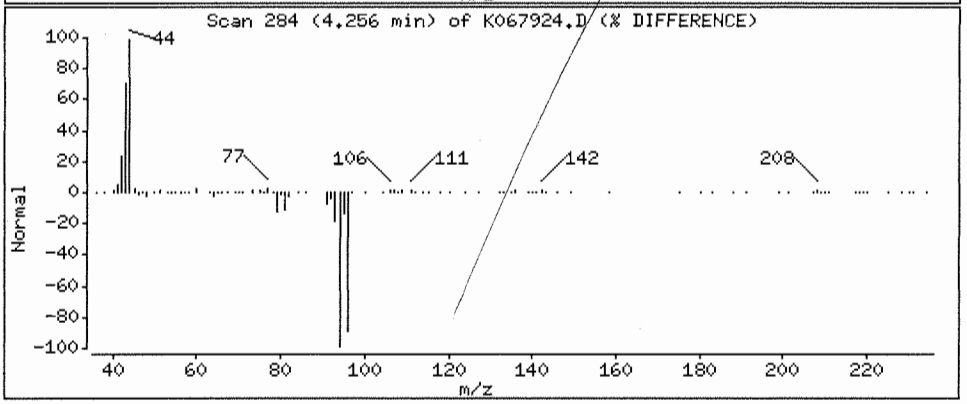












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

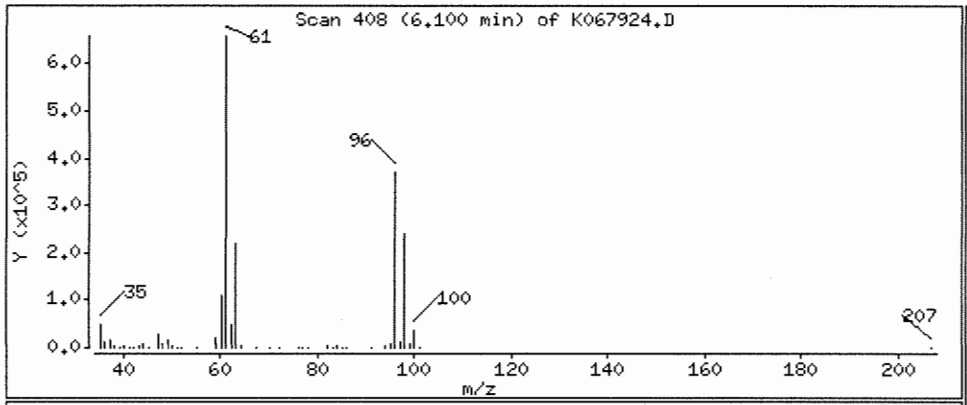
Client ID: T-52-GW11 Instrument: MSK.i

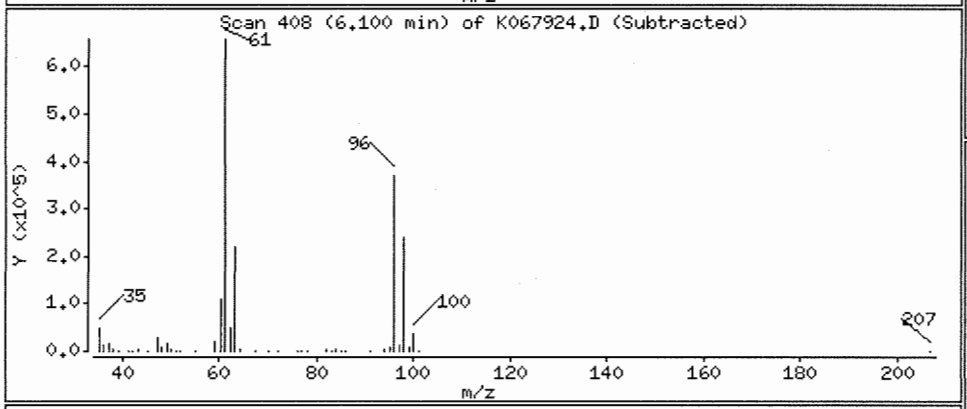
Sample Info: D0601625-002

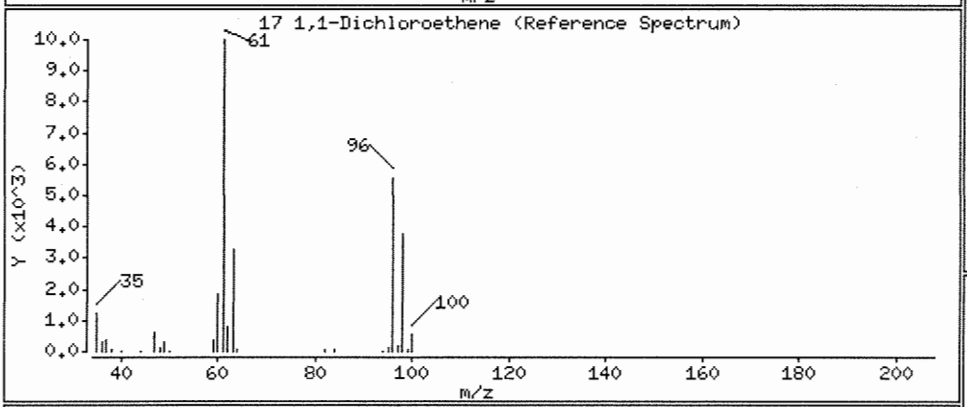
Purge Volume: 10.0 Operator: X

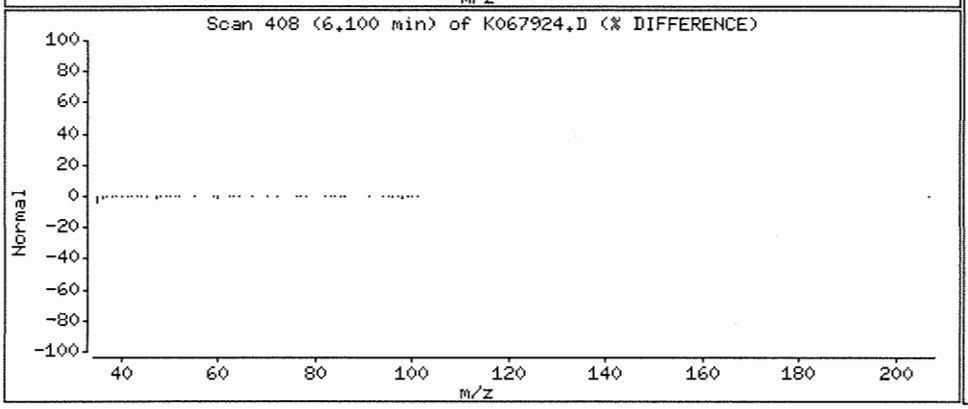
Column phase: DB-624 Column diameter: 0.32

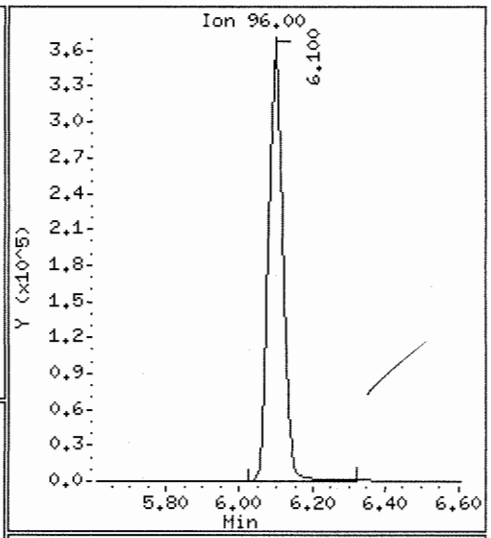
17 1,1-Dichloroethene Concentration: 254 ug/L

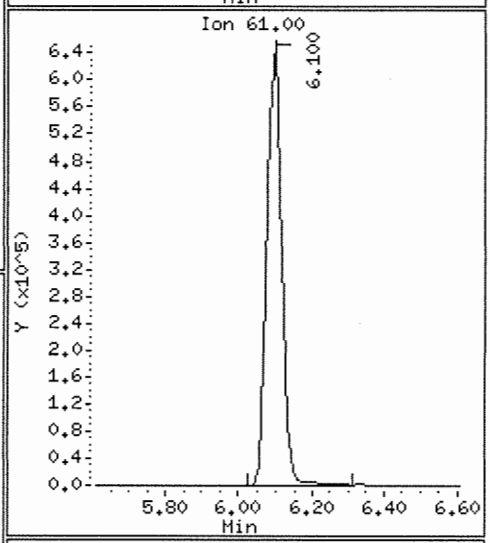


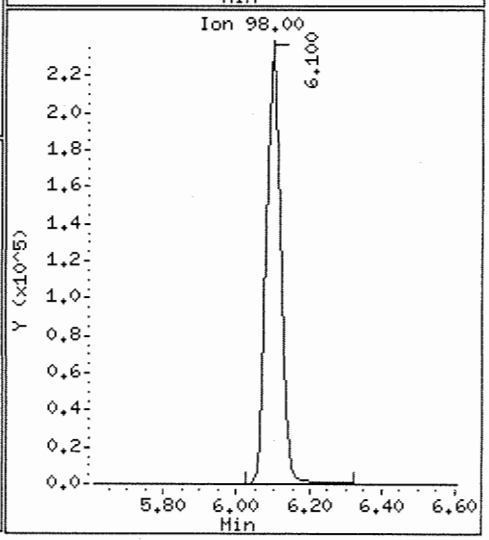












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Date : 26-OCT-2006 08:46

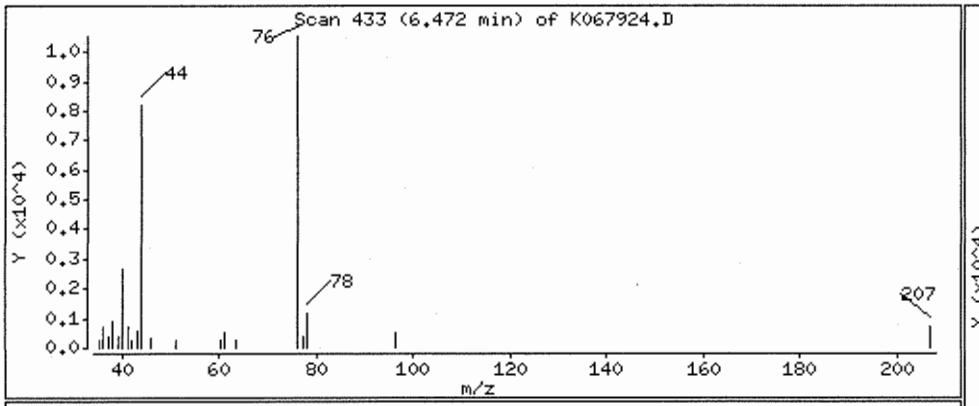
Client ID: T-52-GW11 Instrument: MSK.i

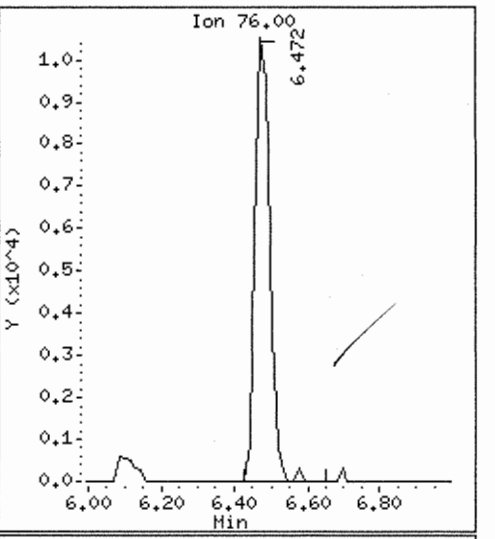
Sample Info: D0601625-002

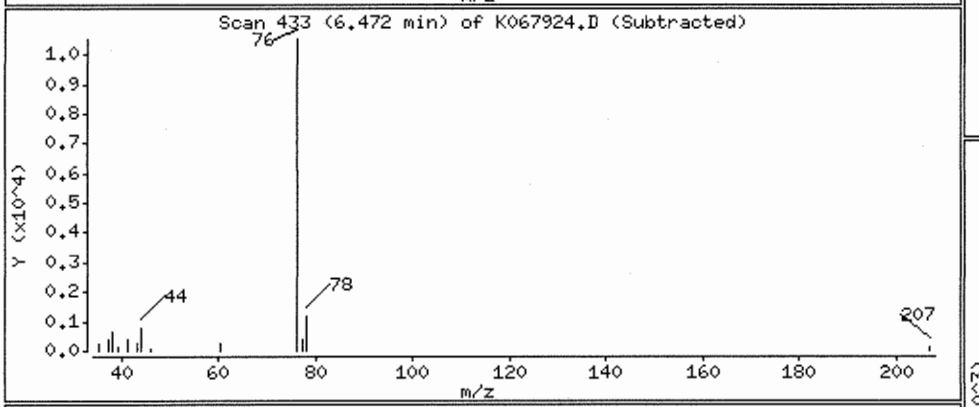
Purge Volume: 10.0 Operator: X

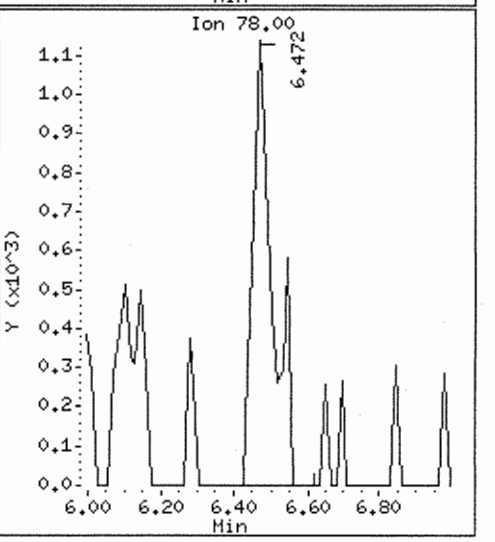
Column phase: DB-624 Column diameter: 0.32

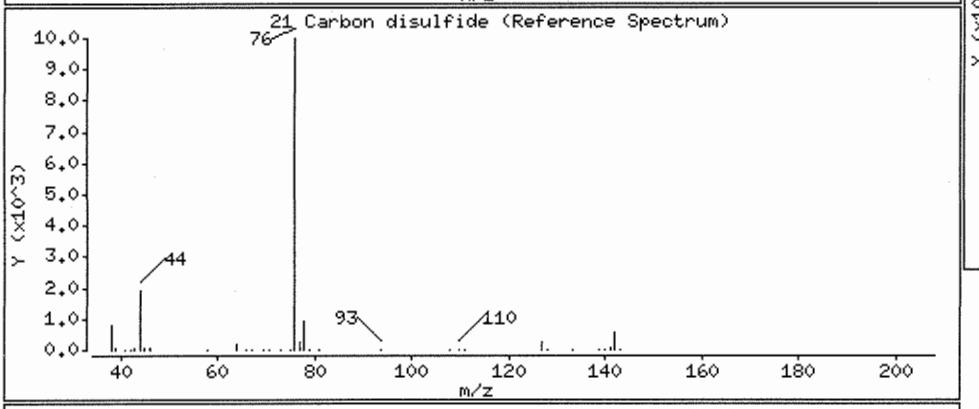
21 Carbon disulfide Concentration: 1.70 ug/L

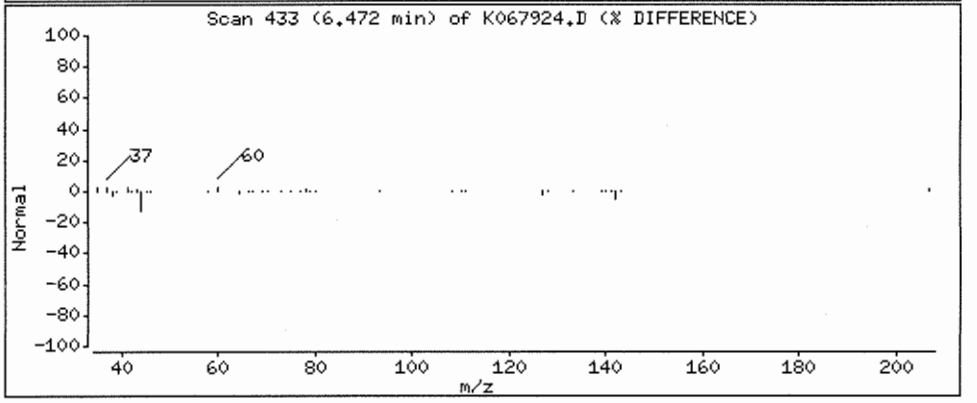












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

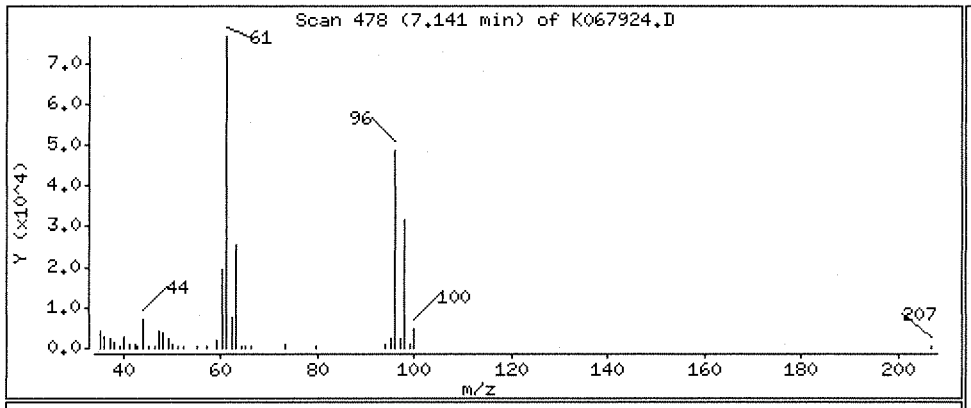
Client ID: T-52-GW11 Instrument: MSK.i

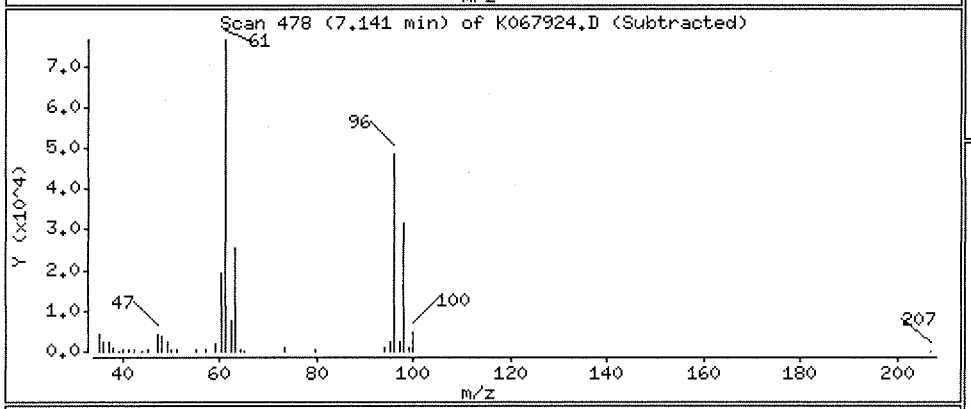
Sample Info: D0601625-002

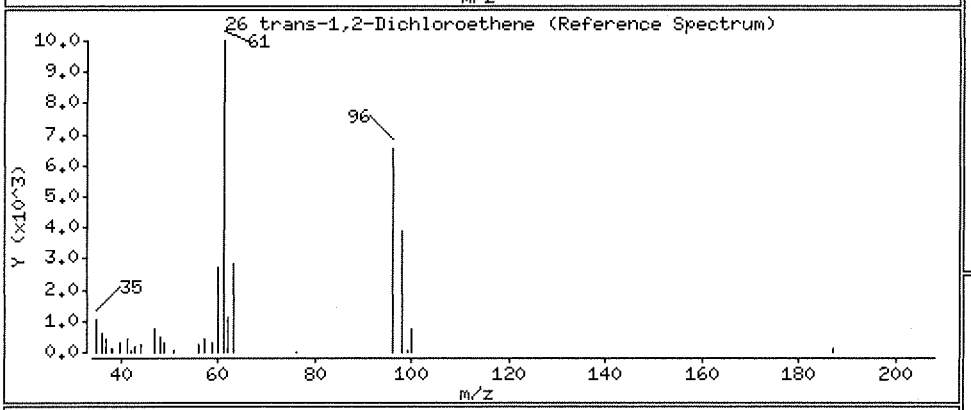
Purge Volume: 10.0 Operator: X

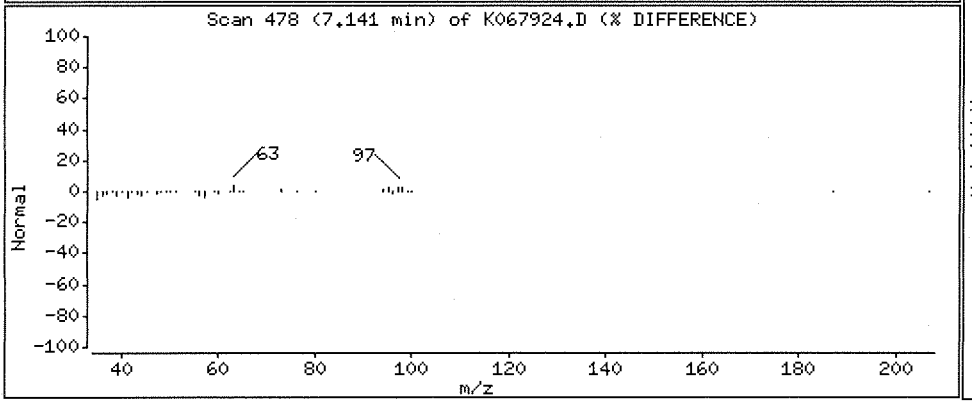
Column phase: DB-624 Column diameter: 0.32

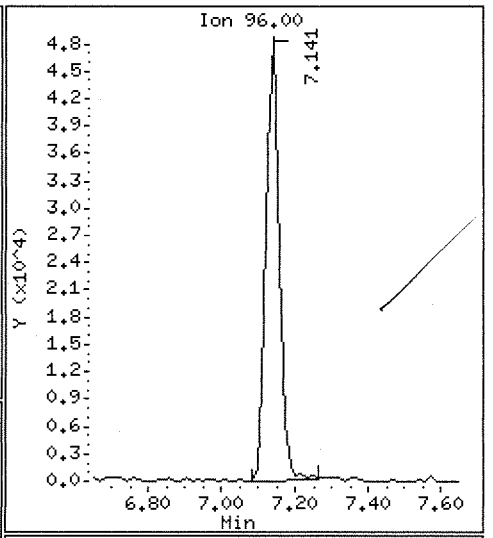
26 trans-1,2-Dichloroethene Concentration: 24.9 ug/L

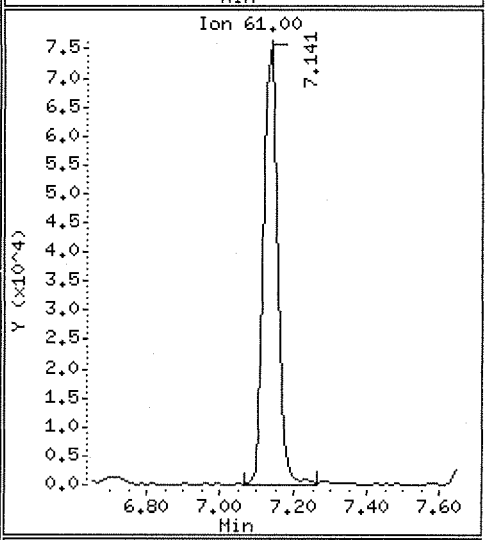


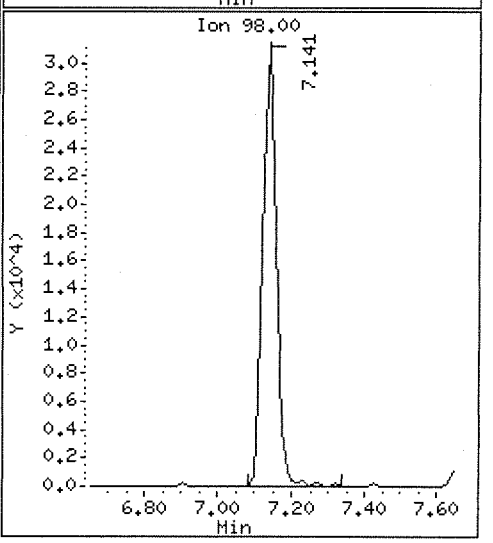












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

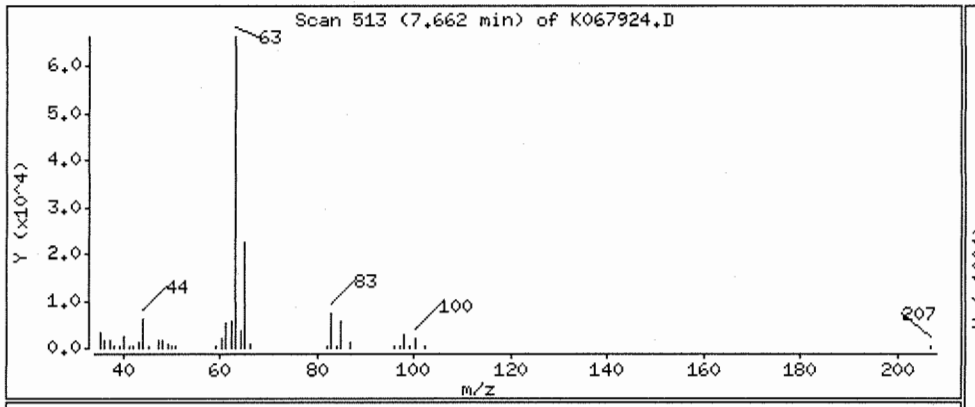
Client ID: T-52-GW11 Instrument: MSK.i

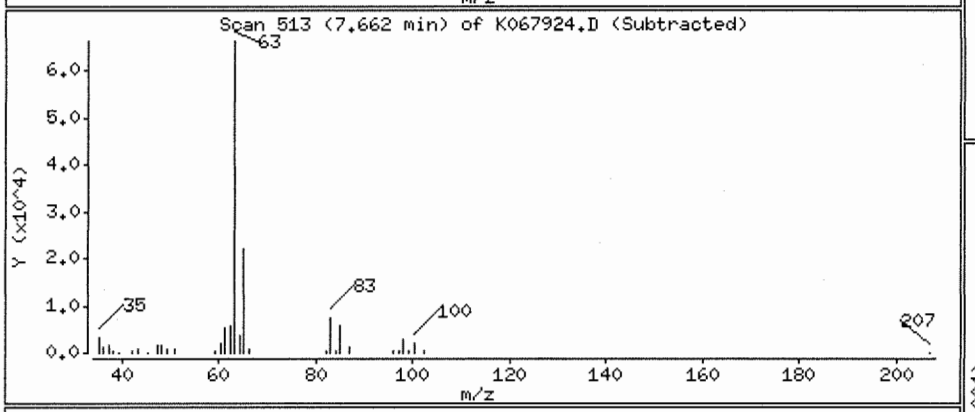
Sample Info: D0601625-002

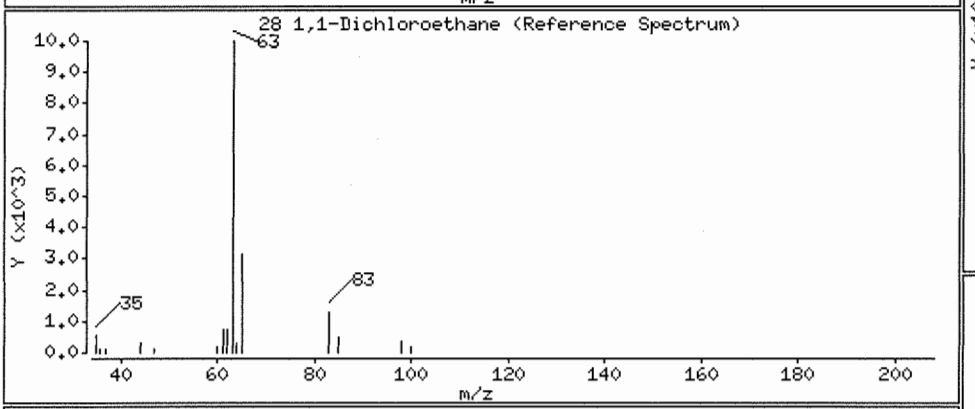
Purge Volume: 10.0 Operator: X

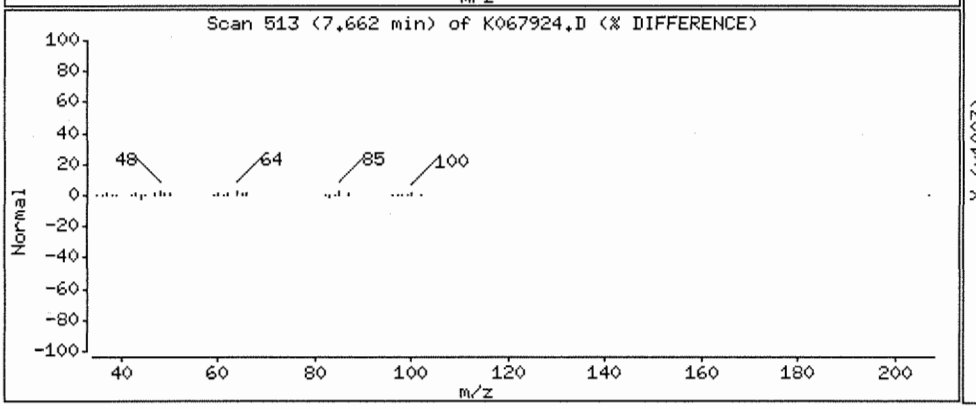
Column phase: DB-624 Column diameter: 0.32

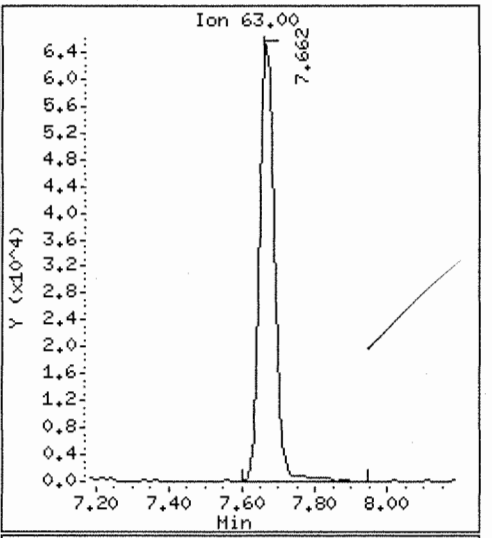
28 1,1-Dichloroethane Concentration: 19.6 ug/L

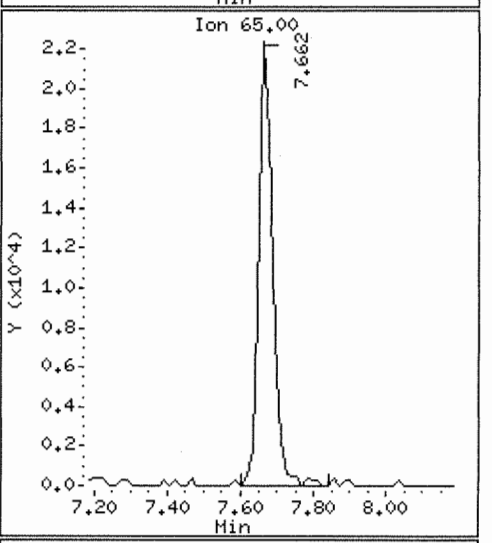


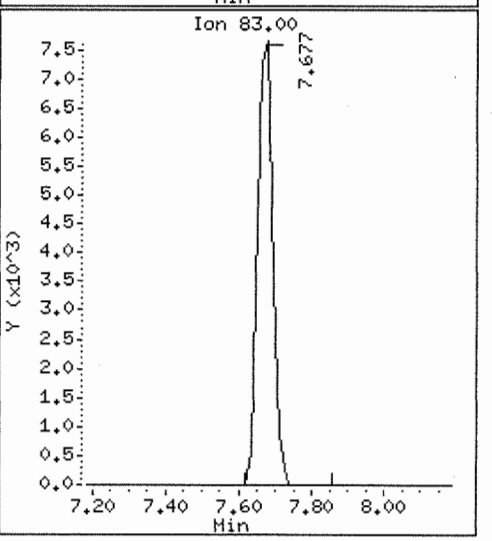












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

Client ID: T-52-GW11

Instrument: MSK.i

Sample Info: D0601625-002

Purge Volume: 10.0

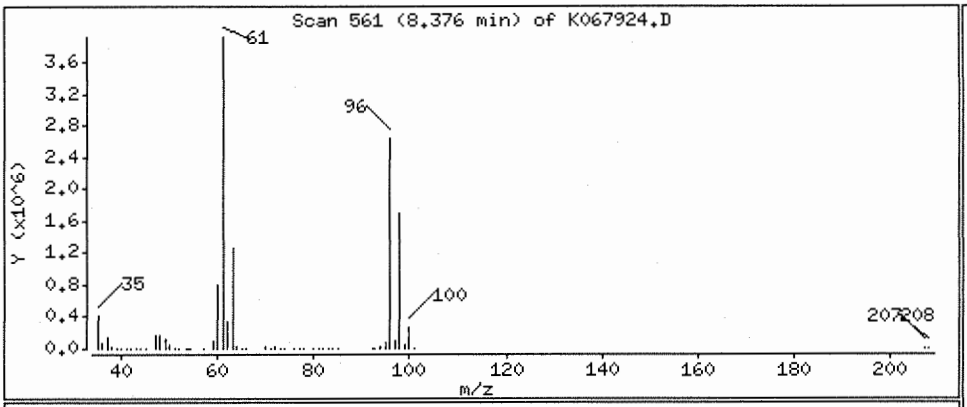
Operator: X

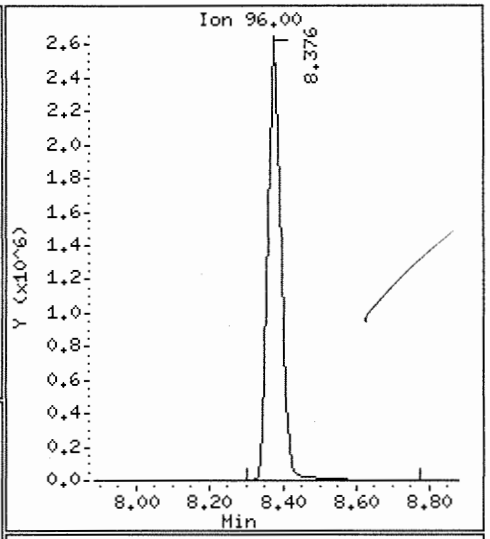
Column phase: DB-624

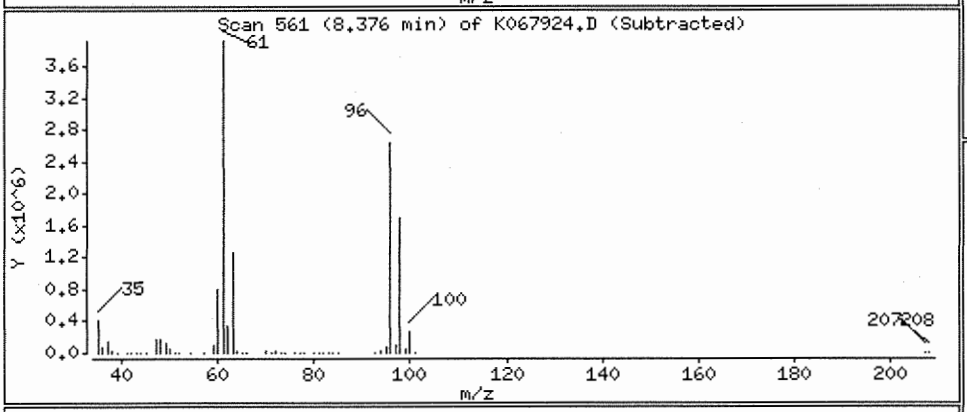
Column diameter: 0.32

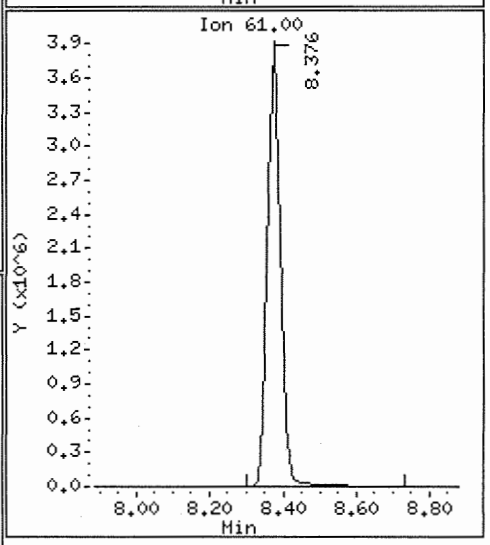
33 cis-1,2-Dichloroethene

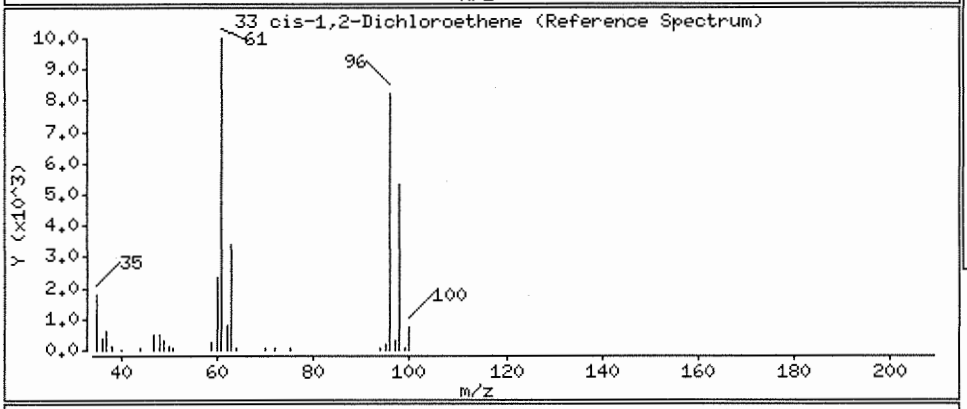
Concentration: 1190 ug/L

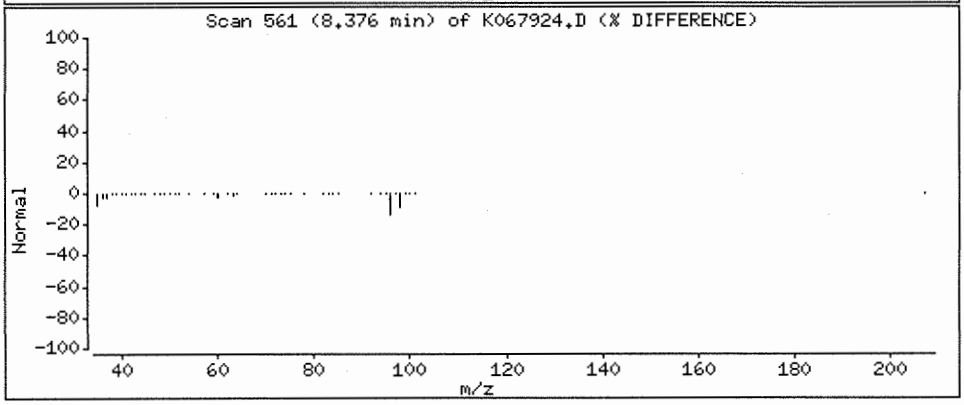












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

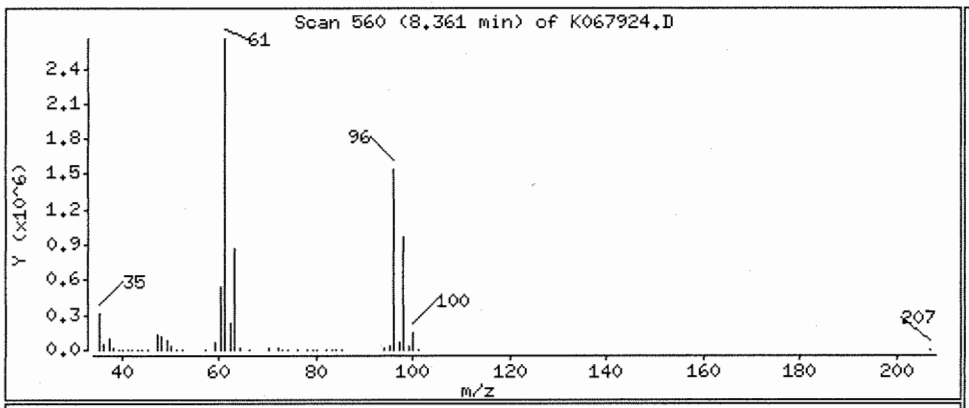
Client ID: T-52-GW11 Instrument: MSK.i

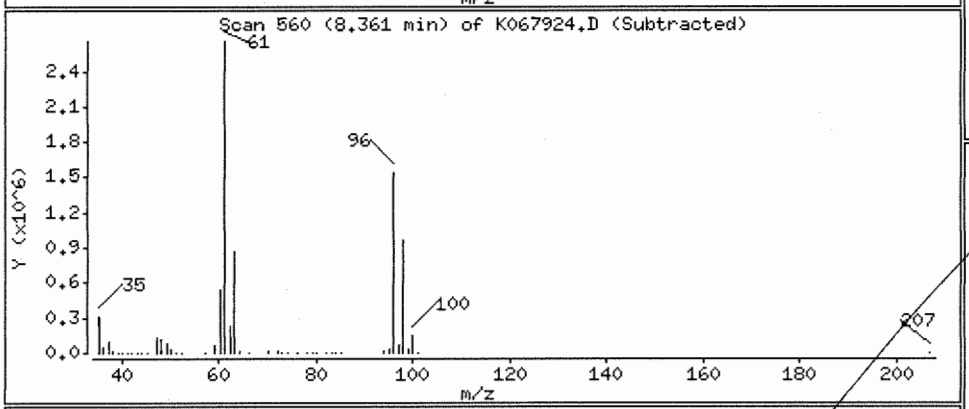
Sample Info: D0601625-002

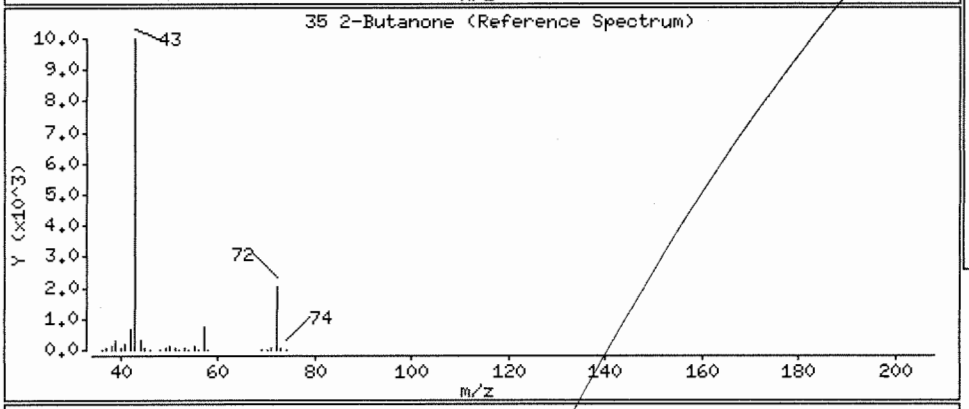
Purge Volume: 10.0 Operator: X

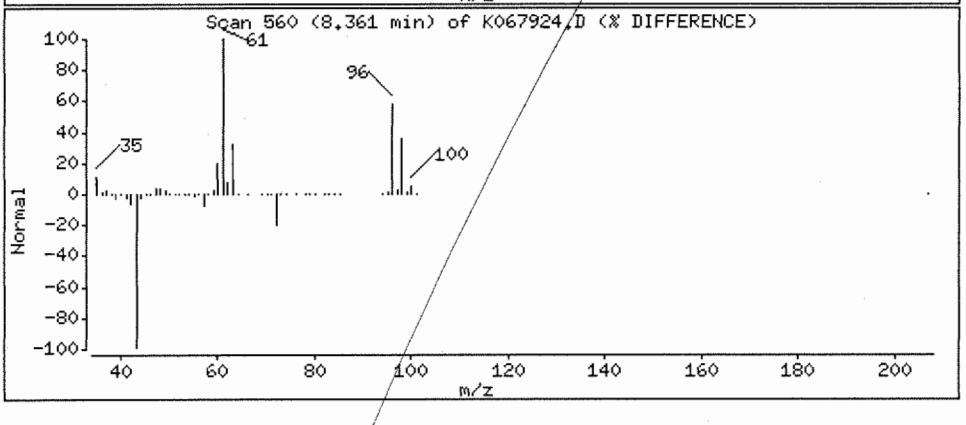
Column phase: DB-624 Column diameter: 0.32

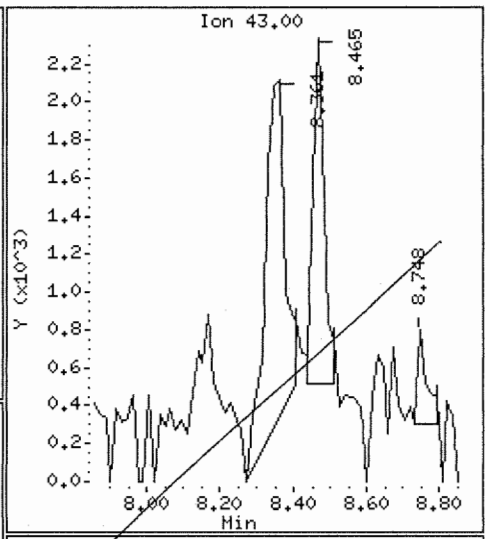
35 2-Butanone Concentration: 11.3 ug/L

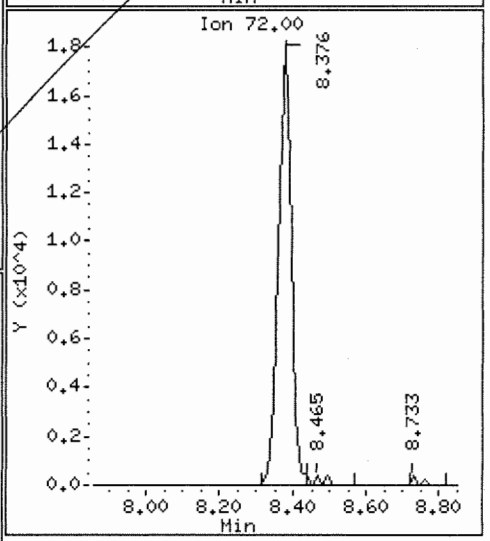












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

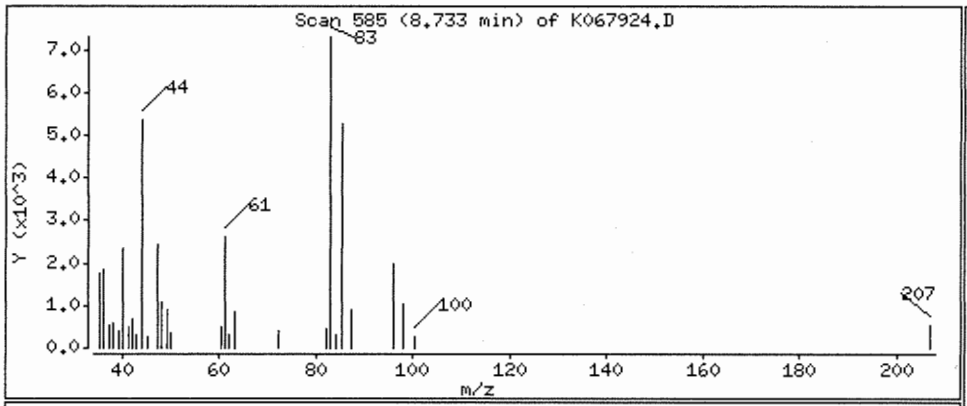
Client ID: T-52-GW11 Instrument: MSK.i

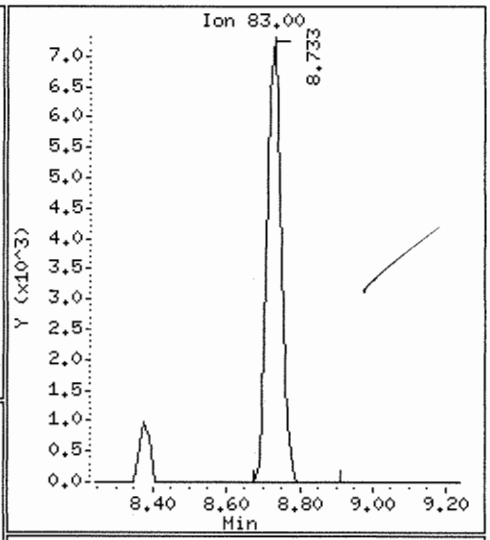
Sample Info: D0601625-002

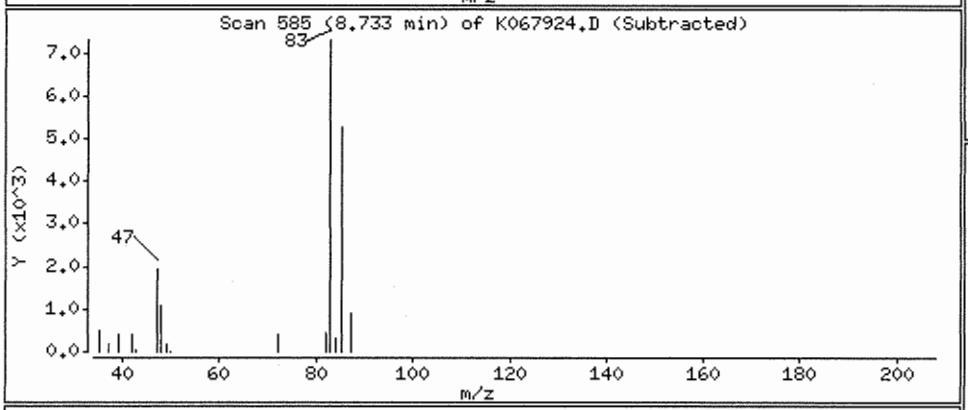
Purge Volume: 10.0 Operator: X

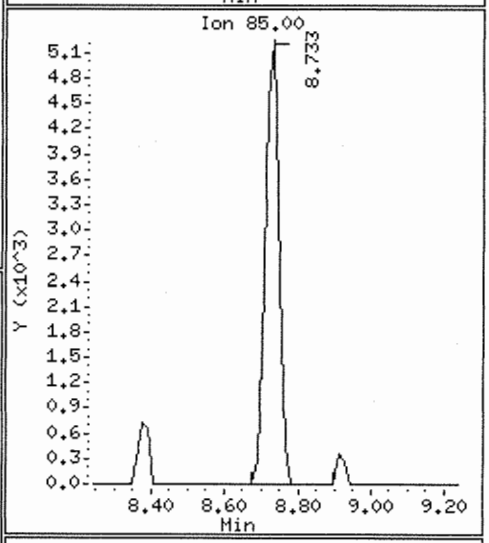
Column phase: DB-624 Column diameter: 0.32

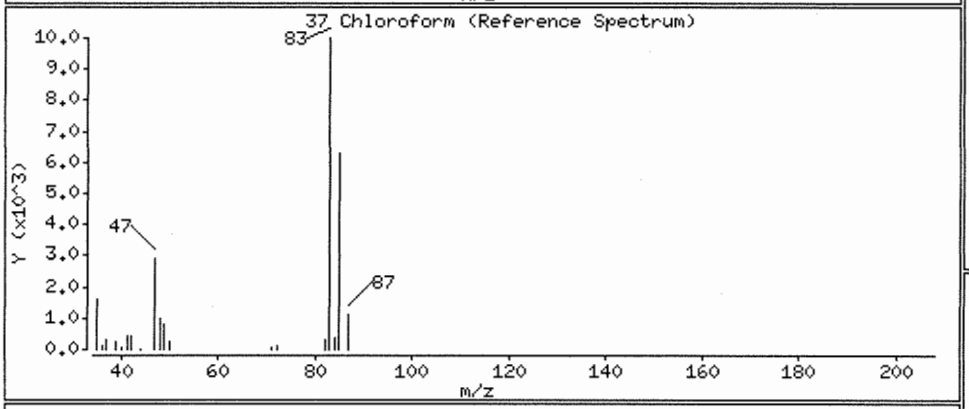
37 Chloroform Concentration: 1.92 ug/L

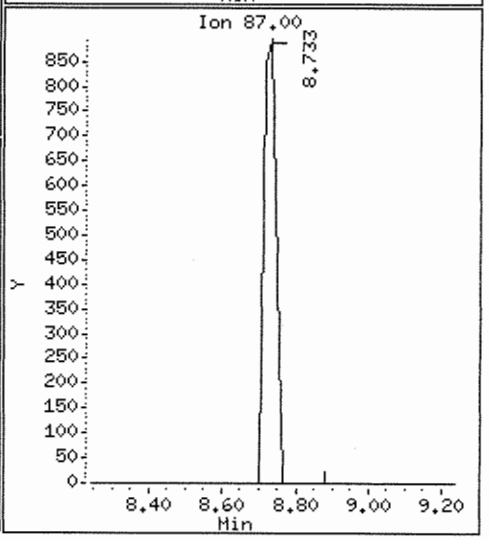


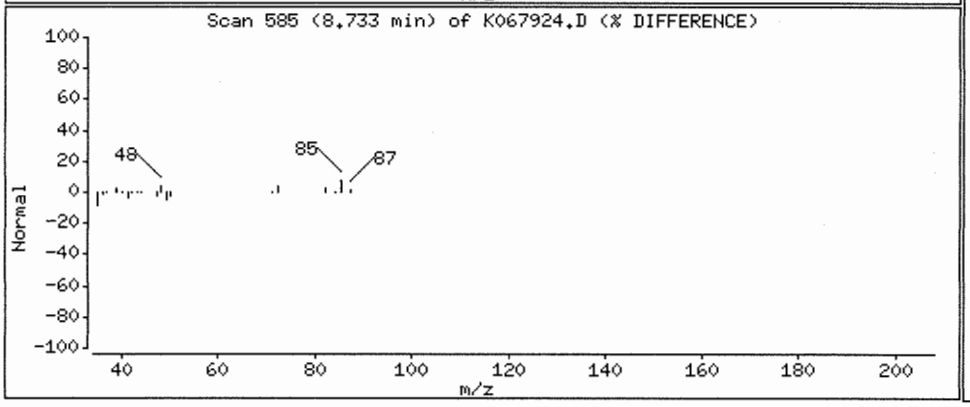












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

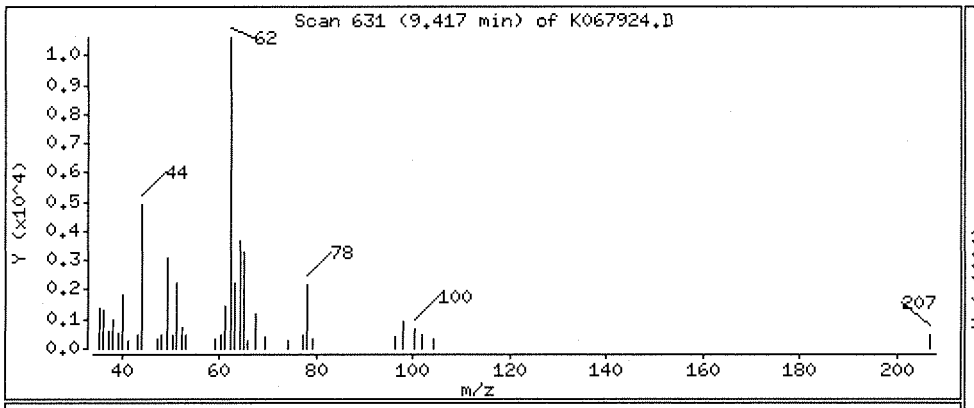
Client ID: T-52-GW11 Instrument: MSK.i

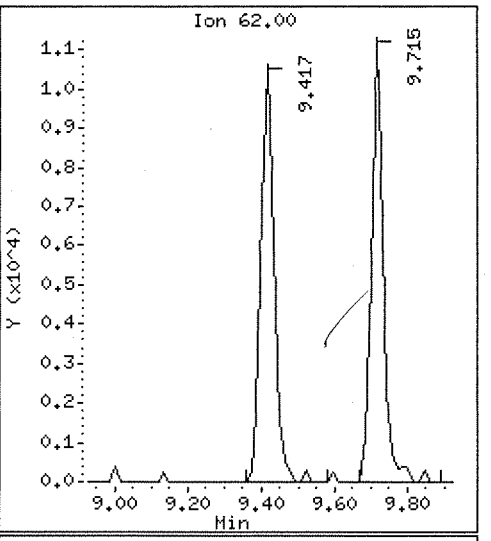
Sample Info: D0601625-002

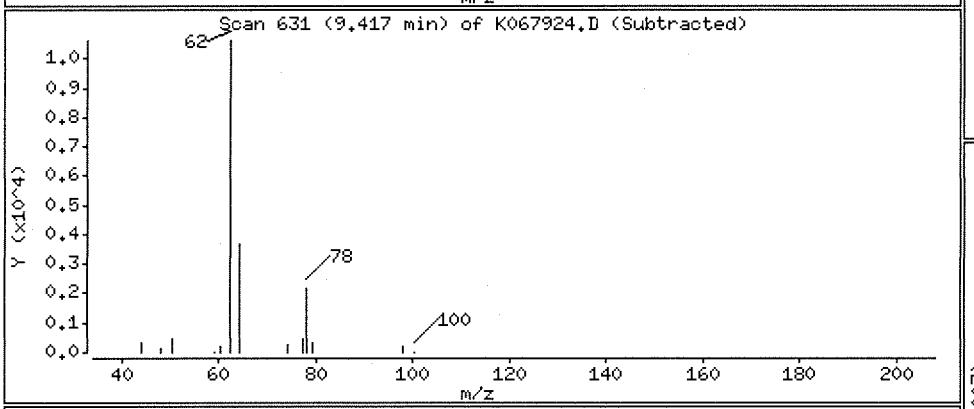
Purge Volume: 10.0 Operator: X

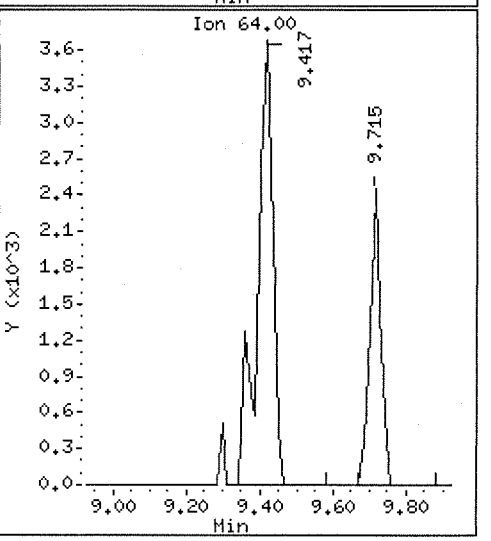
Column phase: DB-624 Column diameter: 0.32

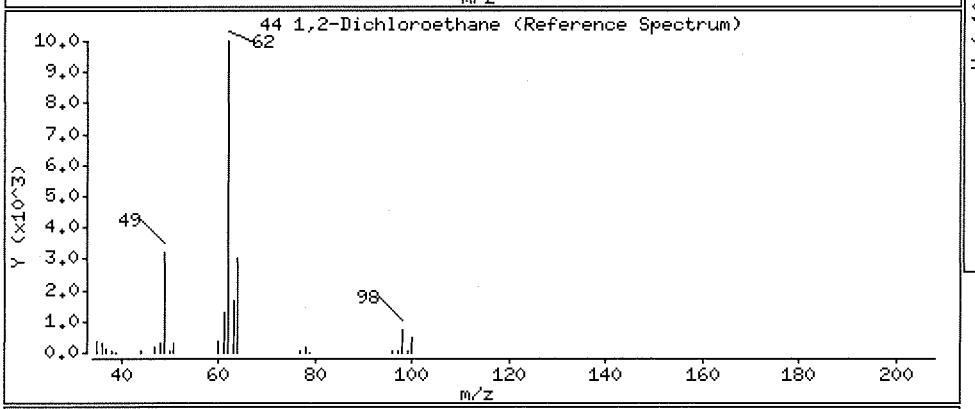
44 1,2-Dichloroethane Concentration: 3.73 ug/L

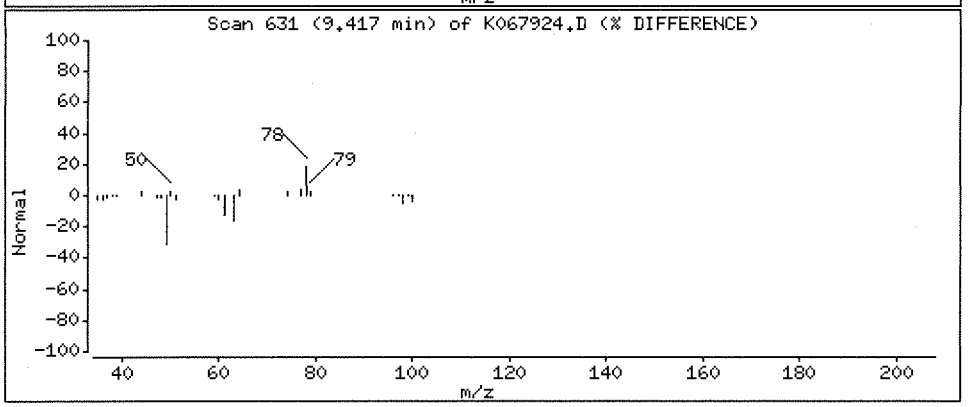












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

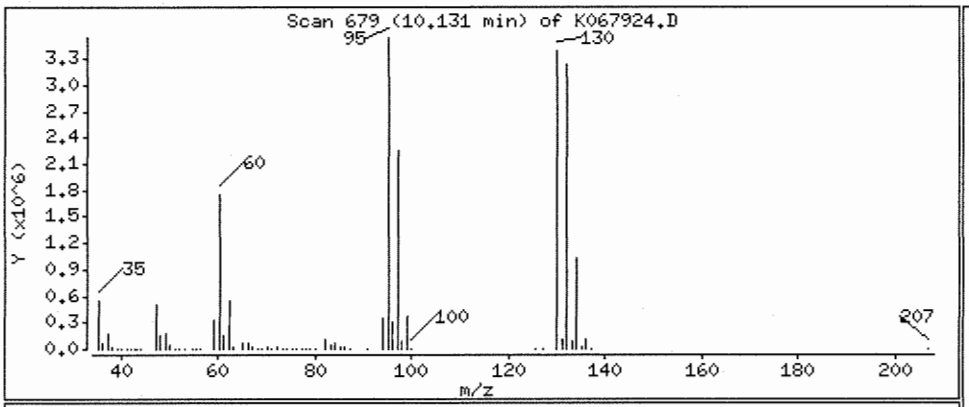
Client ID: T-52-GW11 Instrument: MSK.i

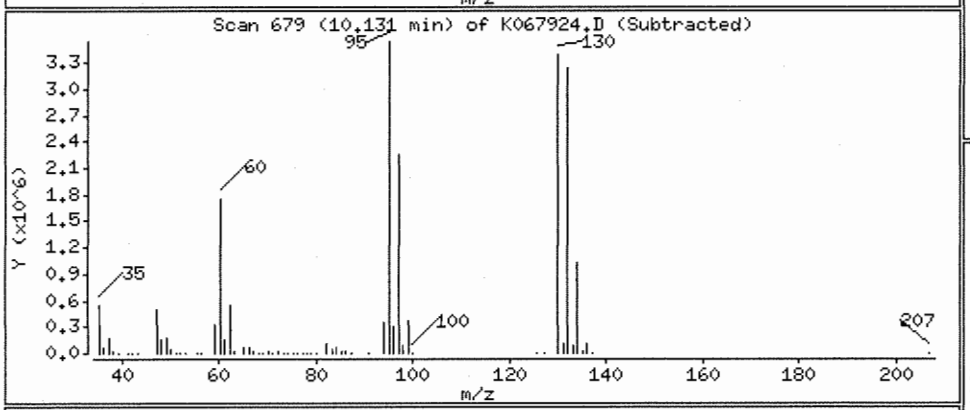
Sample Info: D0601625-002

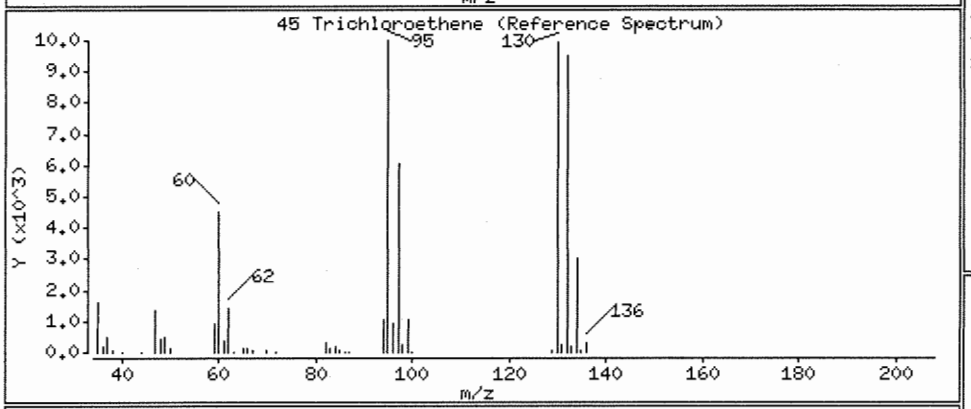
Purge Volume: 10.0 Operator: X

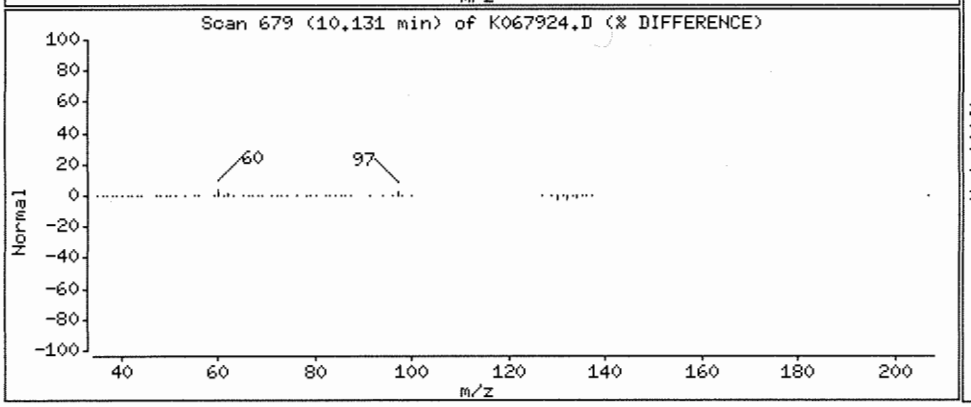
Column phase: DB-624 Column diameter: 0.32

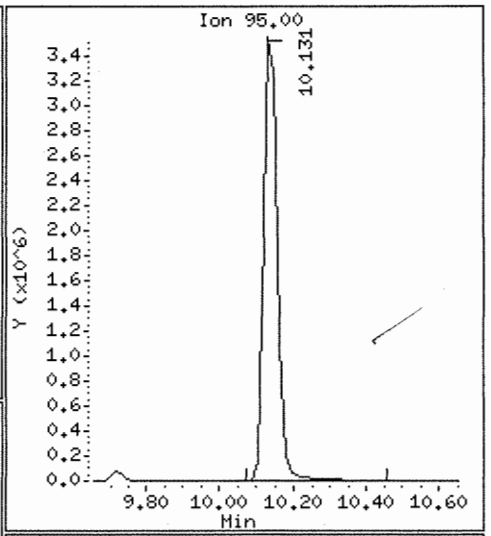
45 Trichloroethene Concentration: 1640 ug/L

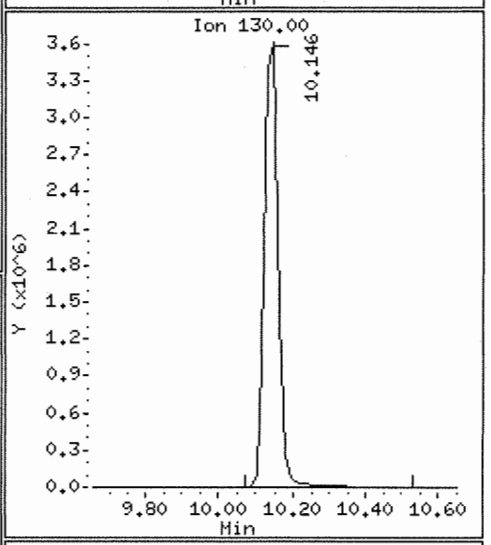


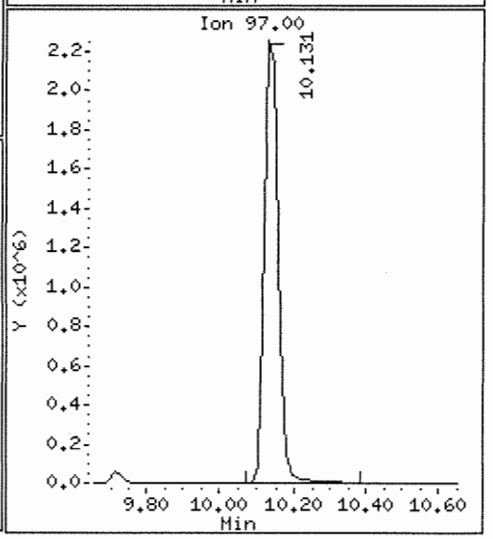












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

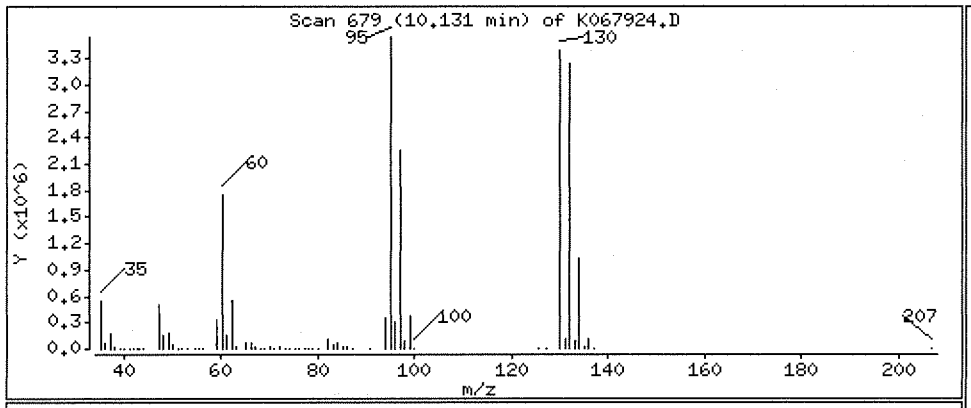
Client ID: T-52-GW11 Instrument: MSK.i

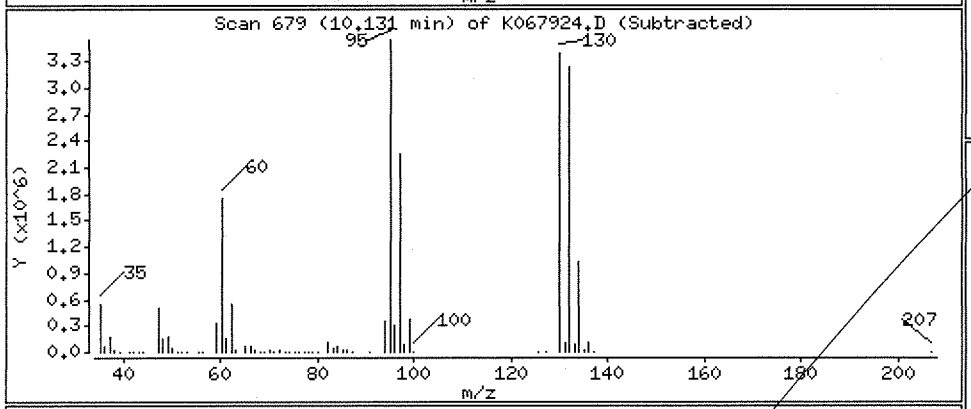
Sample Info: D0601625-002

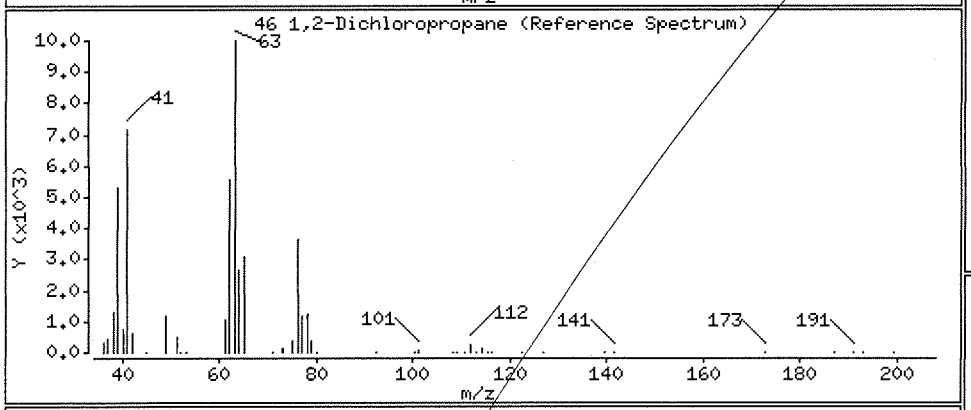
Purge Volume: 10.0 Operator: X

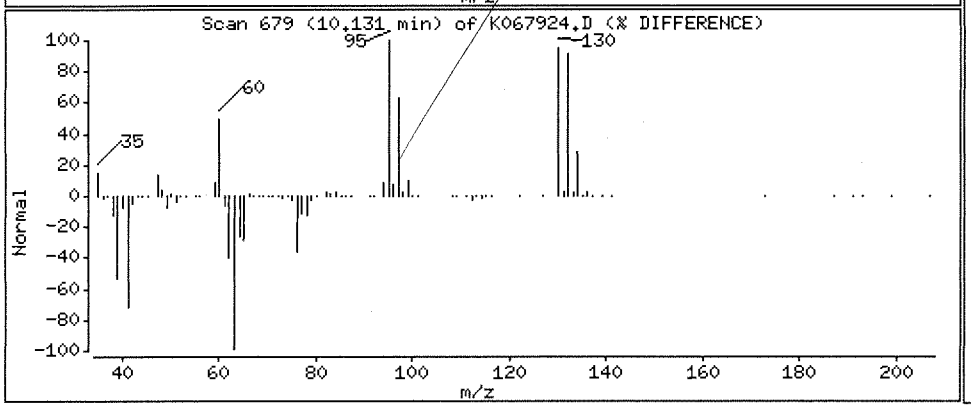
Column phase: DB-624 Column diameter: 0.32

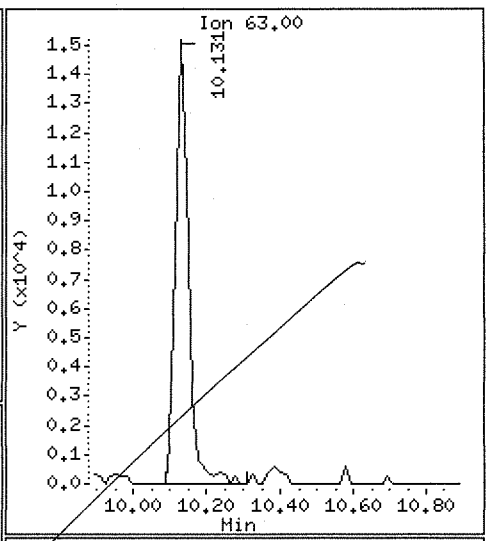
46 1,2-Dichloropropane Concentration: 6.44 ug/L

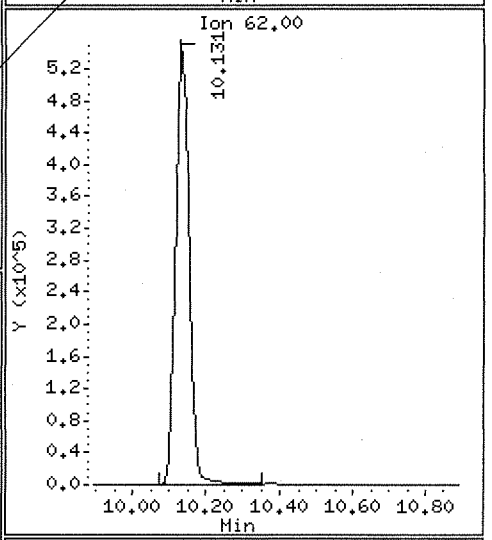


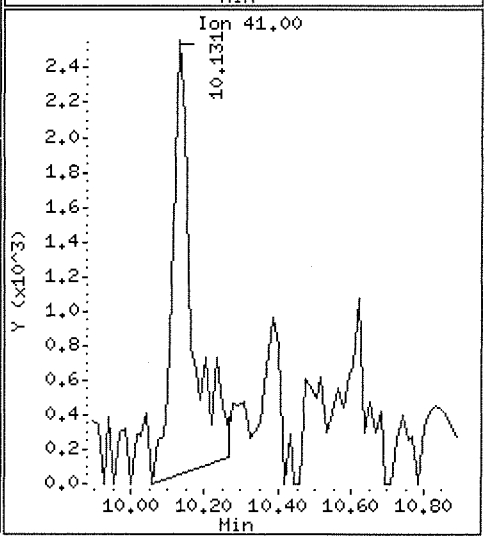












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

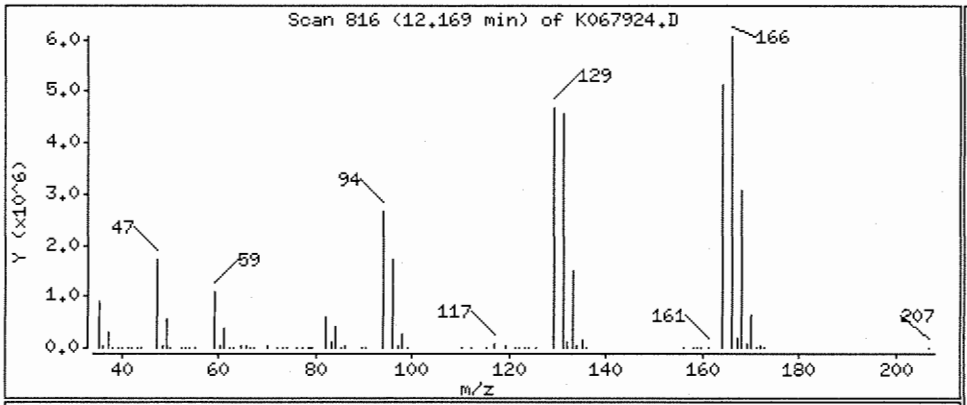
Client ID: T-52-GW11 Instrument: MSK.i

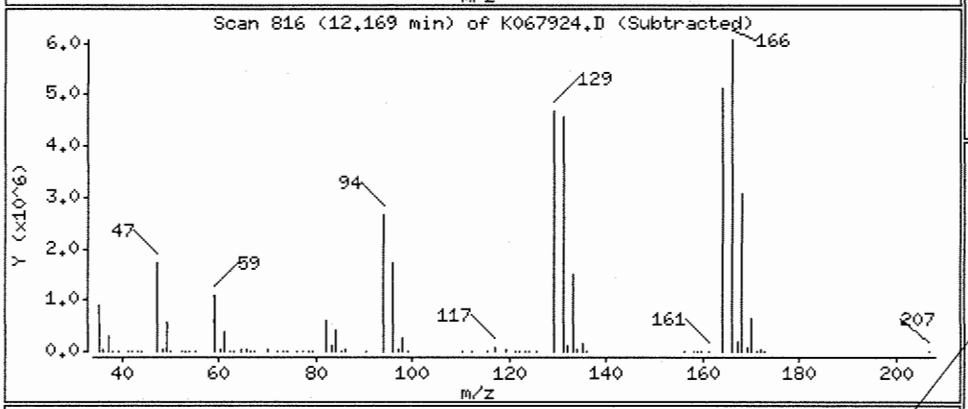
Sample Info: D0601625-002

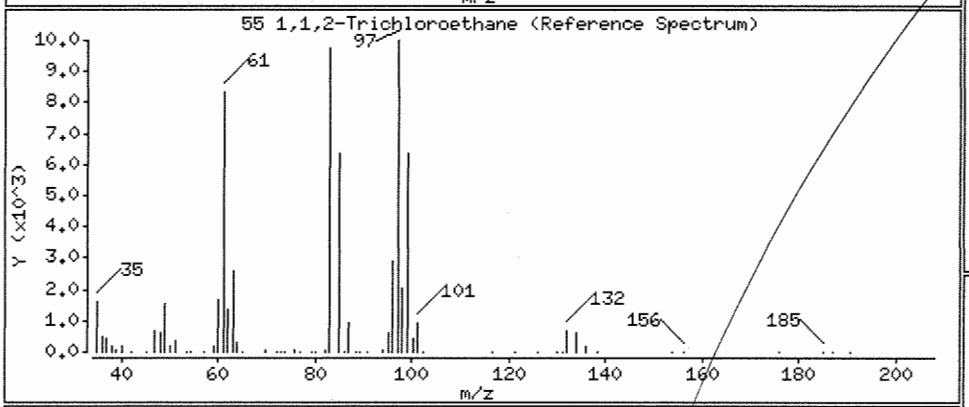
Purge Volume: 10.0 Operator: X

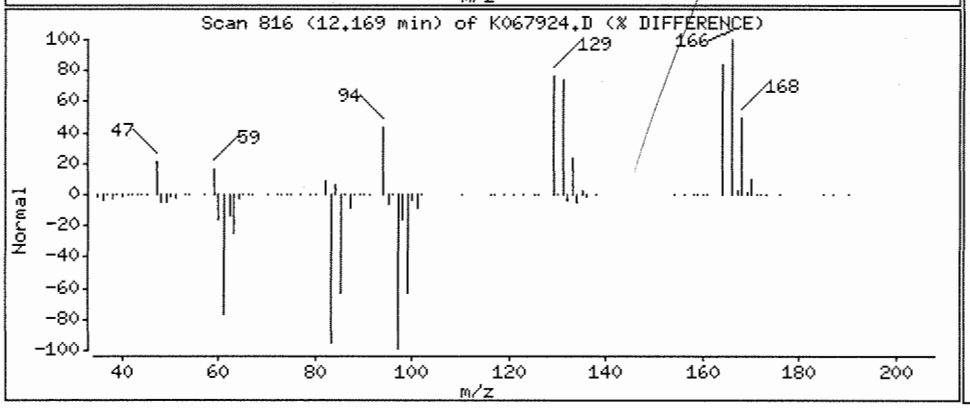
Column phase: DB-624 Column diameter: 0.32

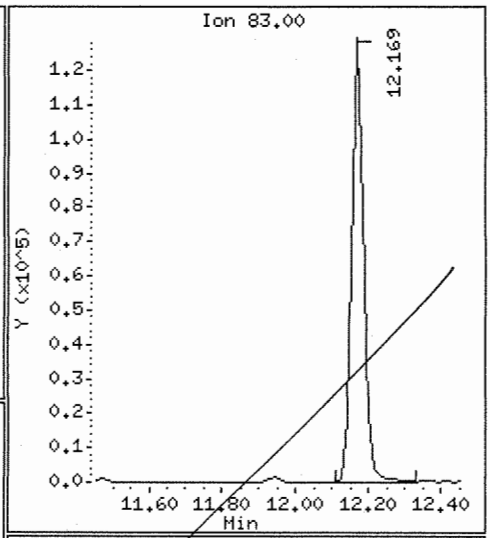
55 1,1,2-Trichloroethane Concentration: 83.4 ug/L

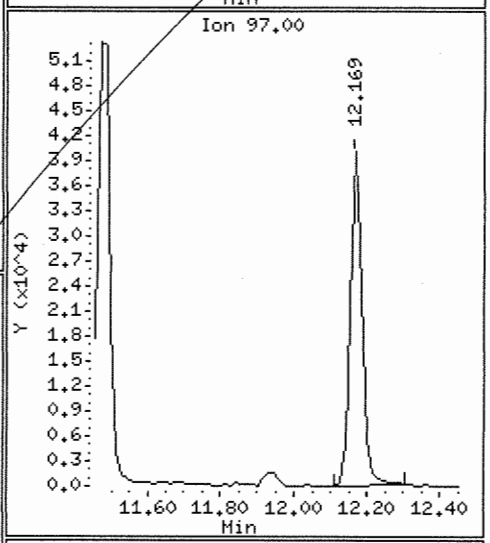


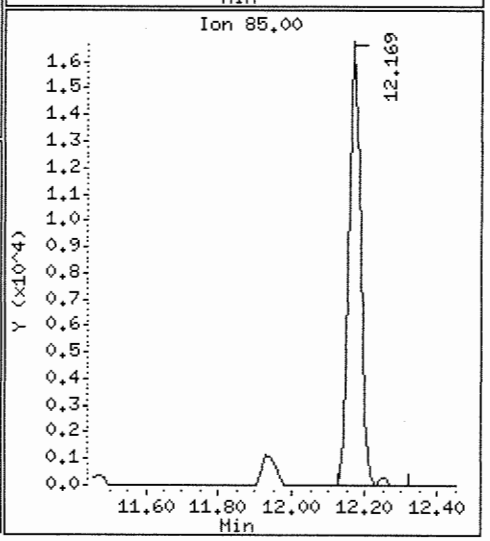












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

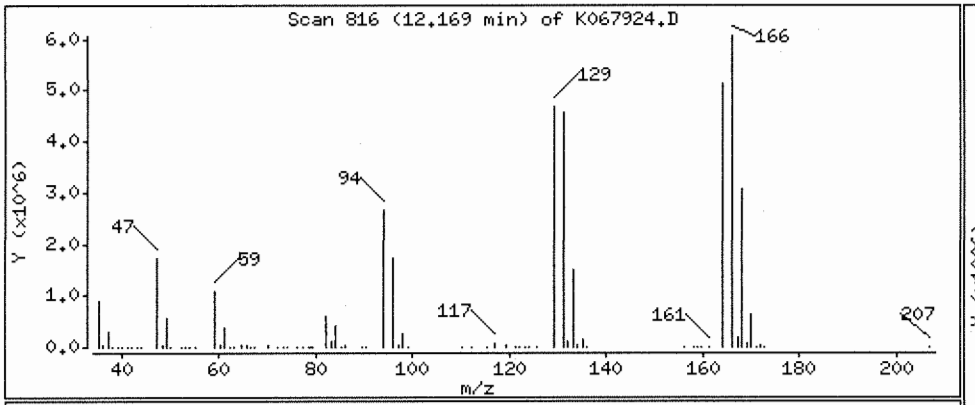
Client ID: T-52-GW11 Instrument: MSK.i

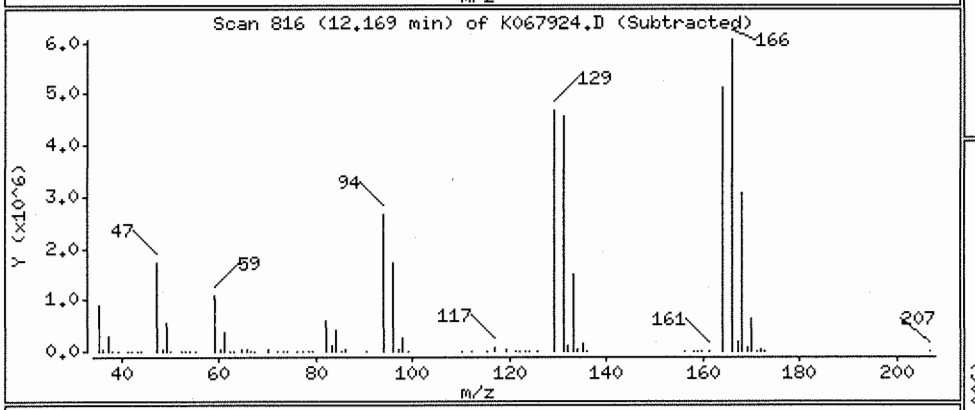
Sample Info: D0601625-002

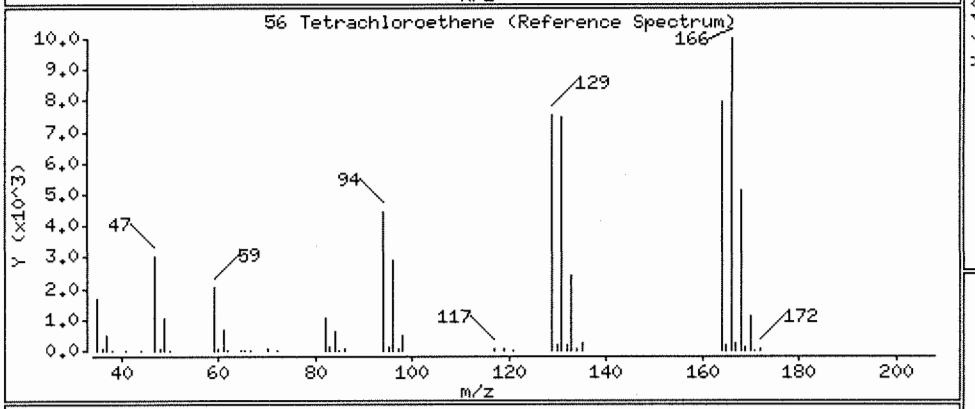
Purge Volume: 10.0 Operator: X

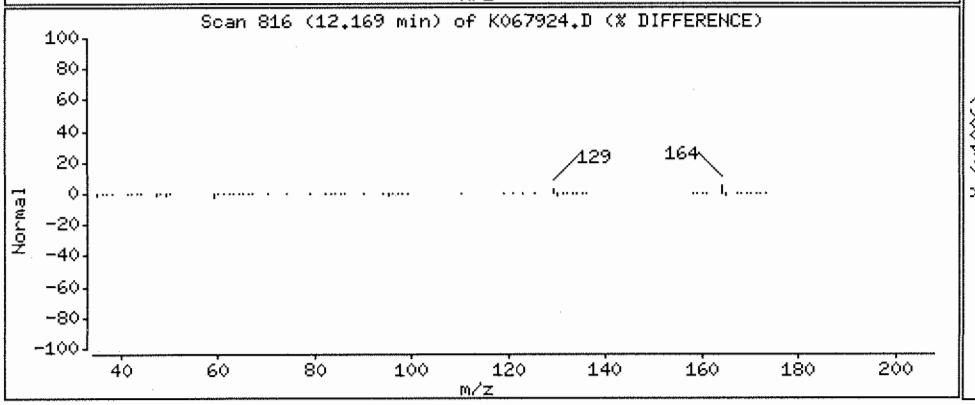
Column phase: DB-624 Column diameter: 0.32

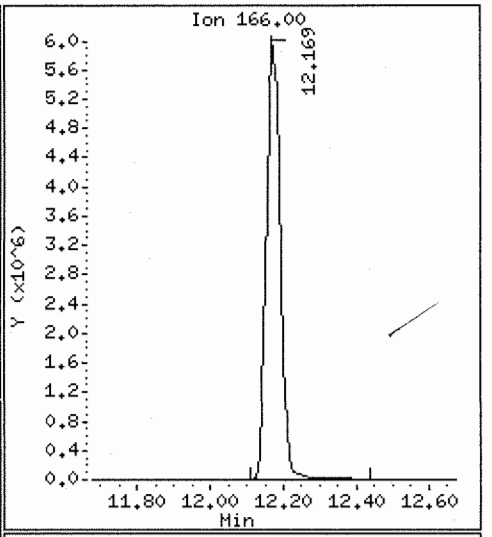
56 Tetrachloroethene Concentration: 2860 ug/L

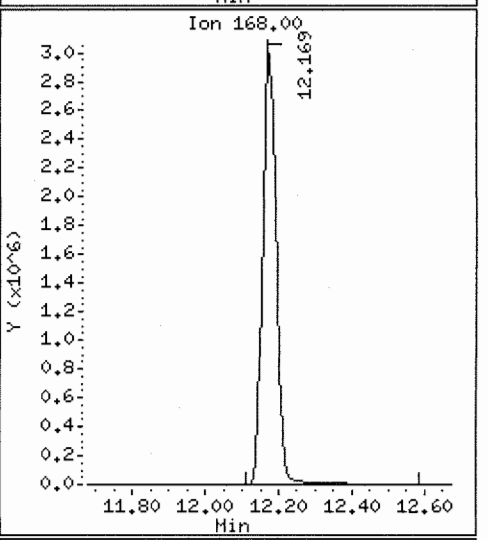


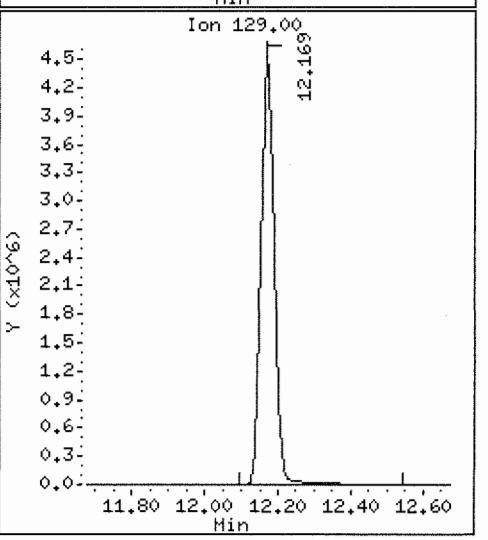












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067924.D

Date : 26-OCT-2006 08:46

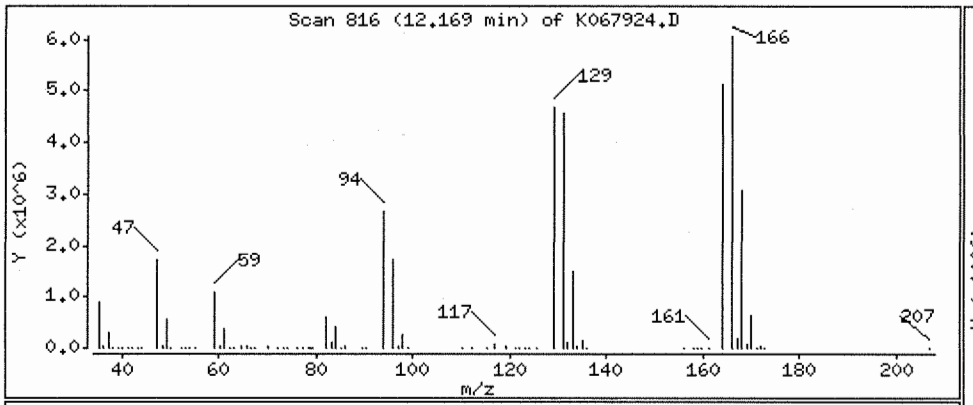
Client ID: T-52-GW11 Instrument: MSK.i

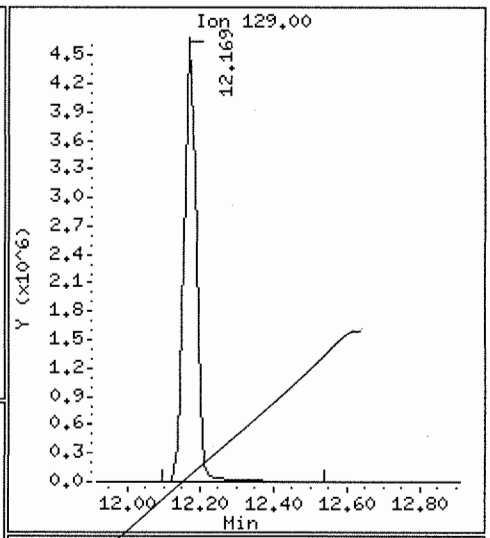
Sample Info: D0601625-002

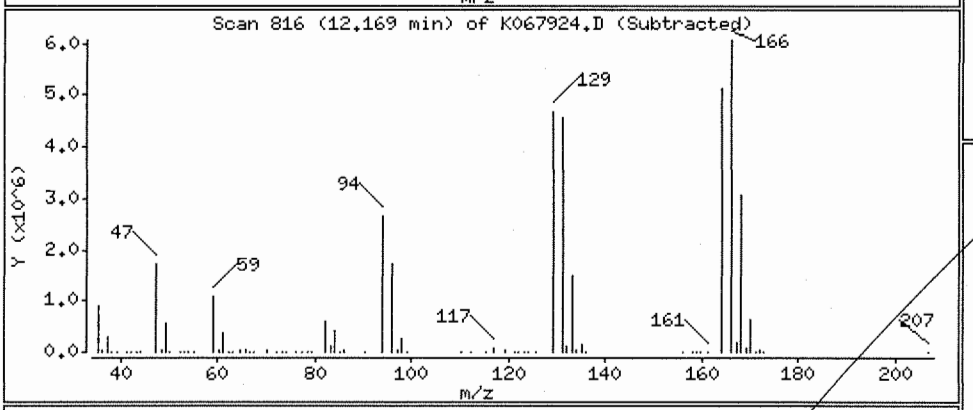
Purge Volume: 10.0 Operator: X

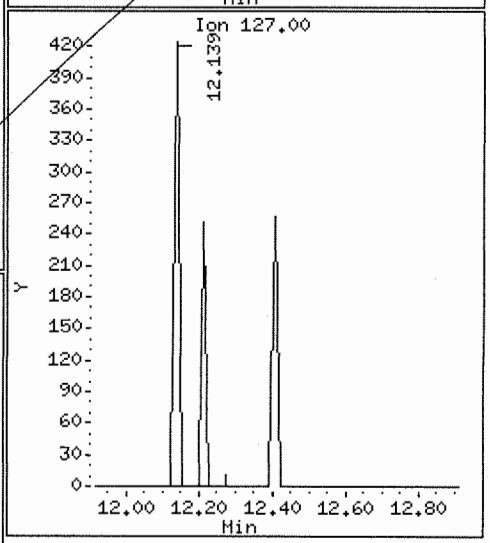
Column phase: DB-624 Column diameter: 0.32

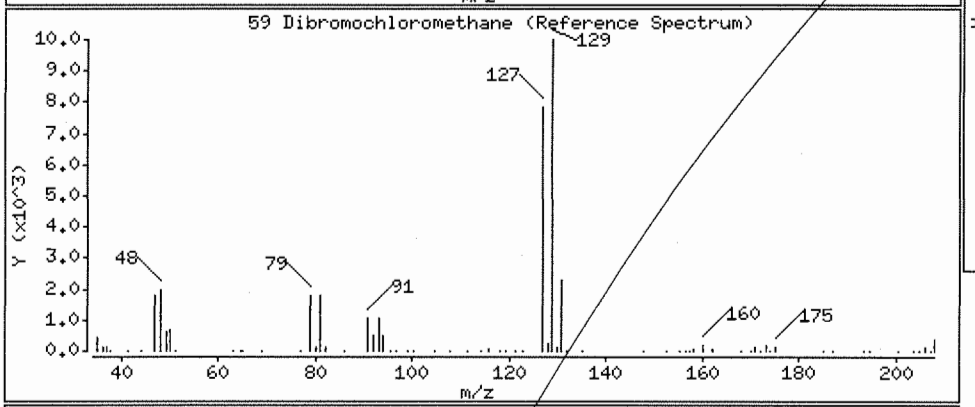
59 Dibromochloromethane Concentration: 2170 ug/L

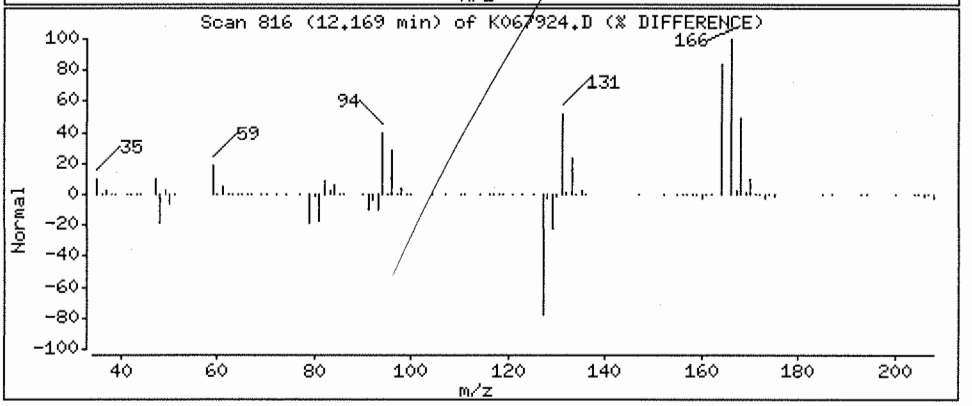












Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D
Lab Smp Id: D0601625-002DL Client Smp ID: T-52-GW11DL
Inj Date : 26-OCT-2006 09:13
Operator : X Inst ID: MSK.i
Smp Info : D0601625-002DL
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 47
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

10/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.716	9.733	(1.000)	1840521	10.0000	
* 2	Chlorobenzene-d5	117	13.063	13.065	(1.000)	1051715	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.651	15.668	(1.000)	284505	10.0000	
$ 4	Dibromofluoromethane	113	8.913	8.930	(0.917)	626623	11.7135	11.7
$ 5	1,2-Dichloroethane-d4	65	9.330	9.331	(0.960)	609040	11.1330	11.1
$ 6	Toluene-d8	98	11.472	11.473	(0.878)	1393471	10.1786	10.2
$ 7	Bromofluorobenzene	174	14.327	14.329	(0.915)	318008	11.1871	11.2
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.838	4.691	(0.498)	2684	0.09379	9.38(aQ)
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	6.102	6.104	(0.628)	89104	2.50479	250
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	7.143	7.145	(0.735)	13384	0.29325	29.3(a)
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	7.664	7.680	(0.789)	19532	0.21650	21.6(a)
30	Vinyl acetate	43	Compound Not Detected.					

D 10/26/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.378	8.379	(0.862)	567557	11.1405	1110
35	2-Butanone	43	8.363	8.350	(0.861)	6557	1.13648	114(aQ)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.735	8.736	(0.899)	17293	0.18164	18.2(a)
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.716	9.421	(1.000)	25845	0.39047	39.0(a)
45	Trichloroethene	95	10.133	10.149	(1.043)	848923	16.1995	1620
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.171	11.949	(0.932)	35644	0.99317	99.3(Q)
56	Tetrachloroethene	166	12.171	12.172	(0.932)	1613875	31.5265	3150
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

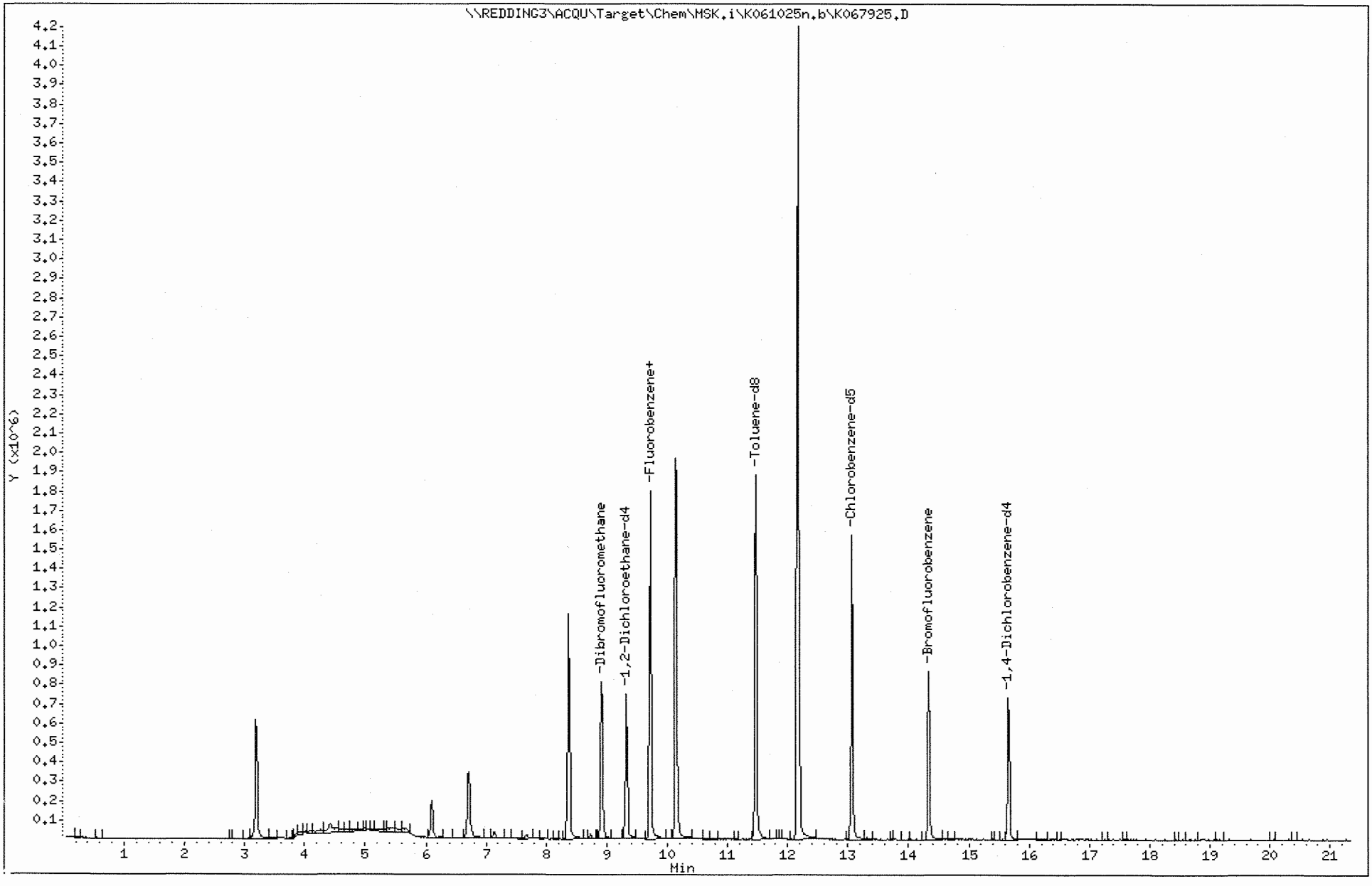
Sample Info: D0601625-002DL

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



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Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

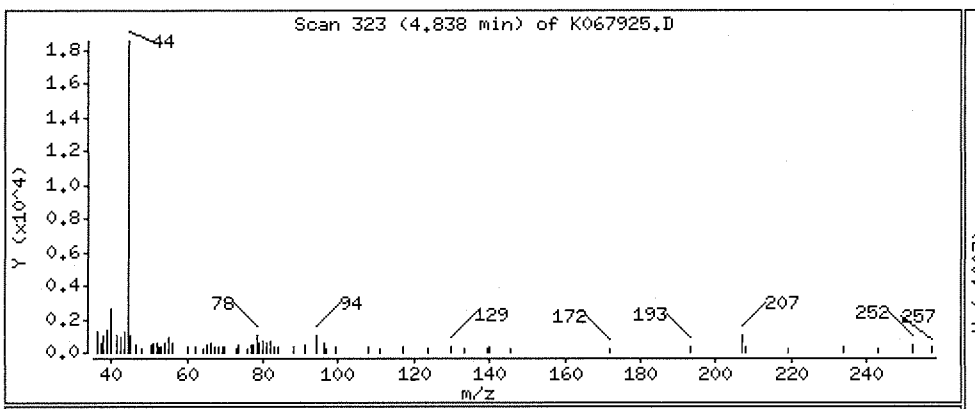
Operator: X

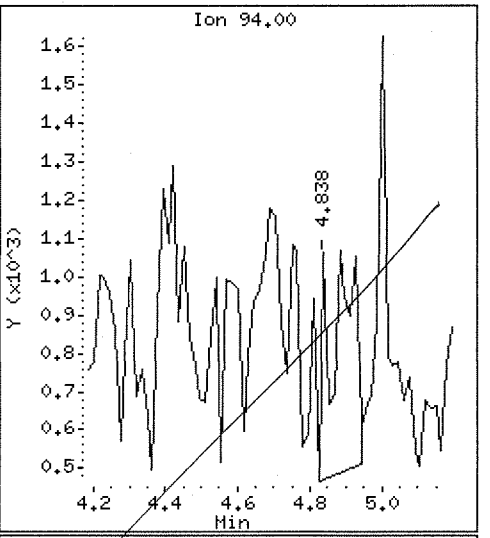
Column phase: DB-624

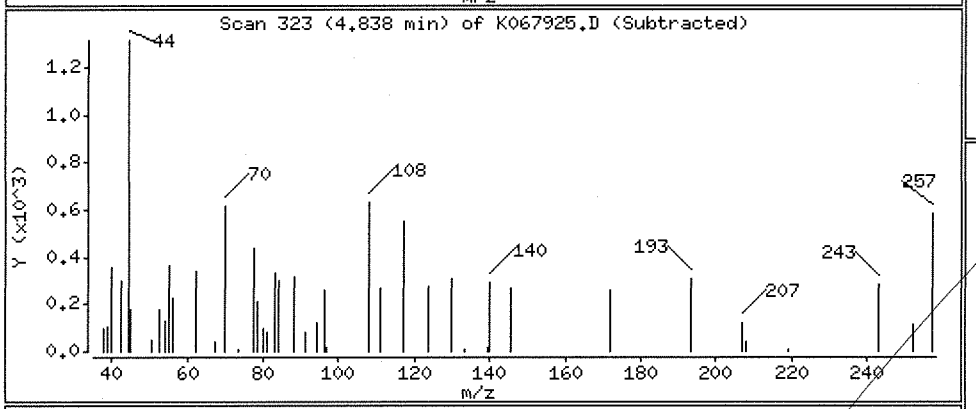
Column diameter: 0.32

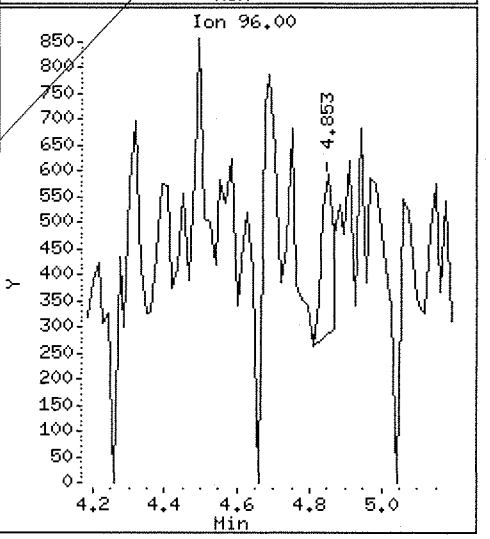
12 Bromomethane

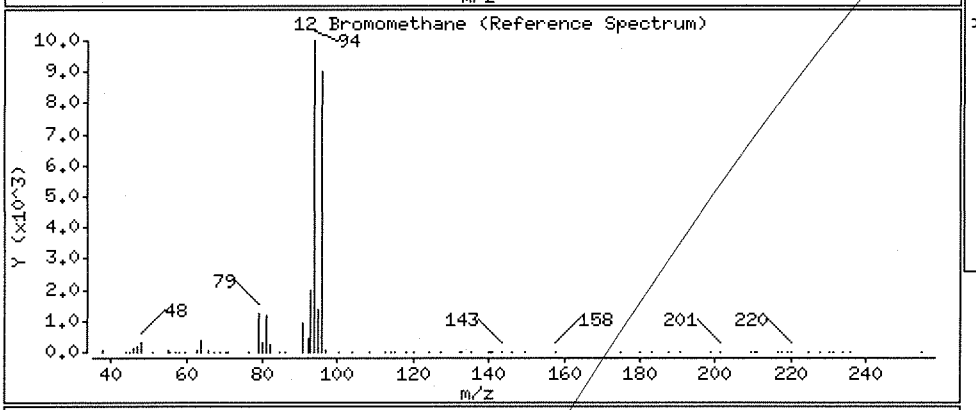
Concentration: 9.38 ug/L

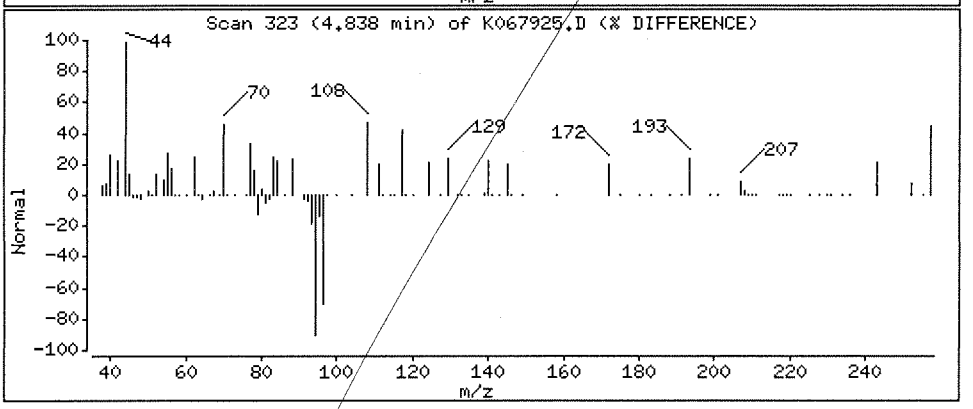












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

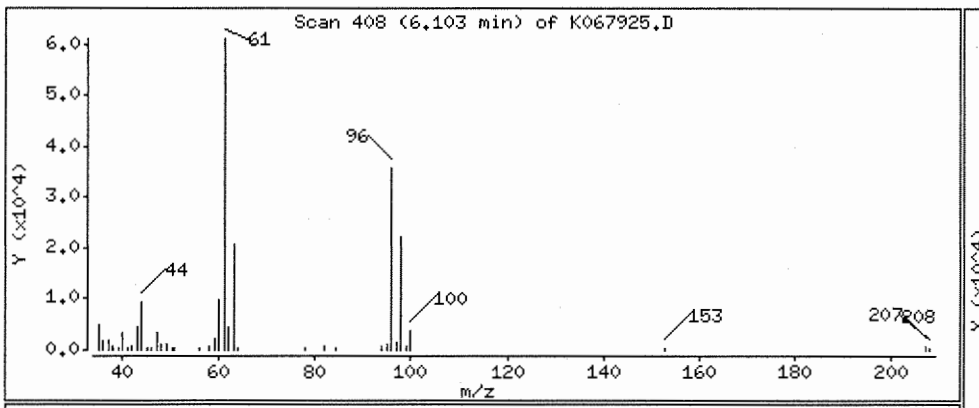
Operator: X

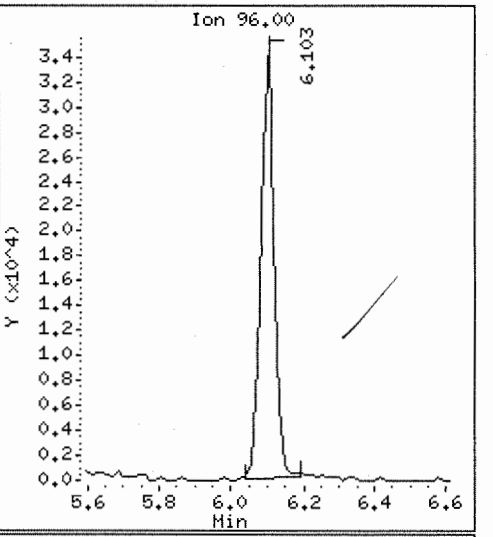
Column phase: DB-624

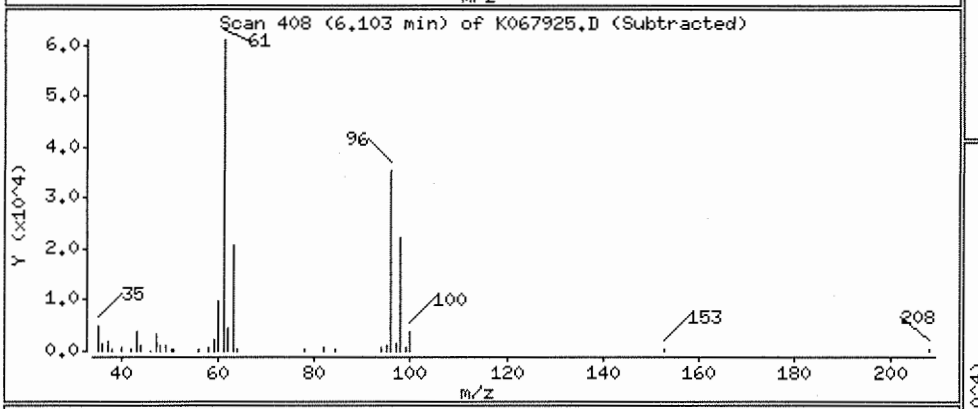
Column diameter: 0.32

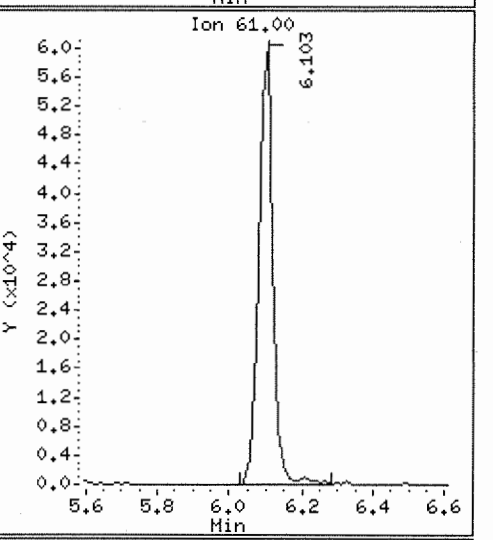
17 1,1-Dichloroethene

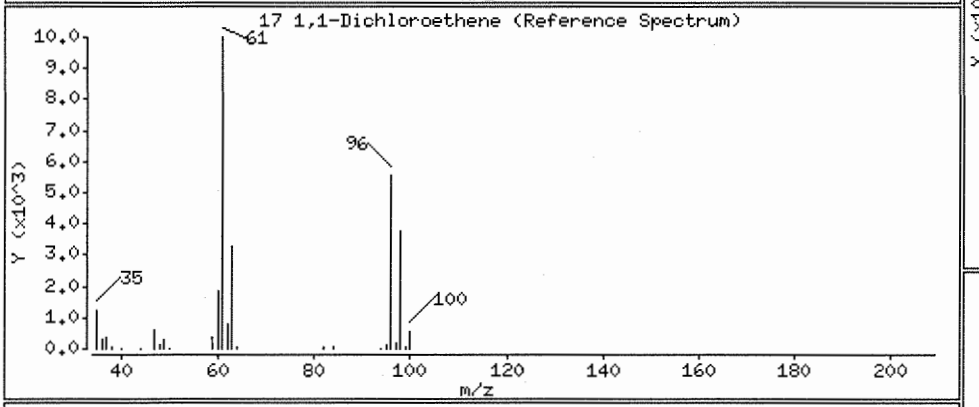
Concentration: 250 ug/L

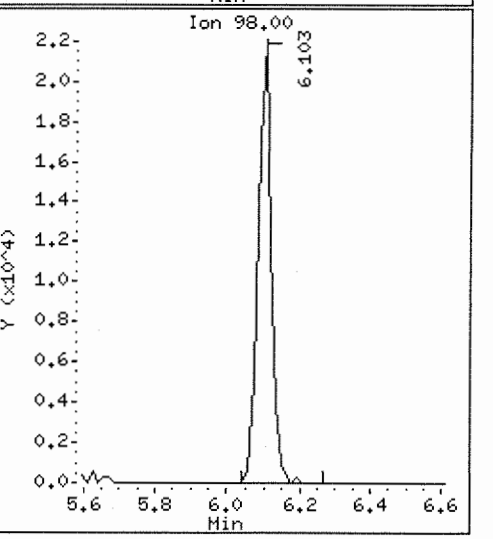


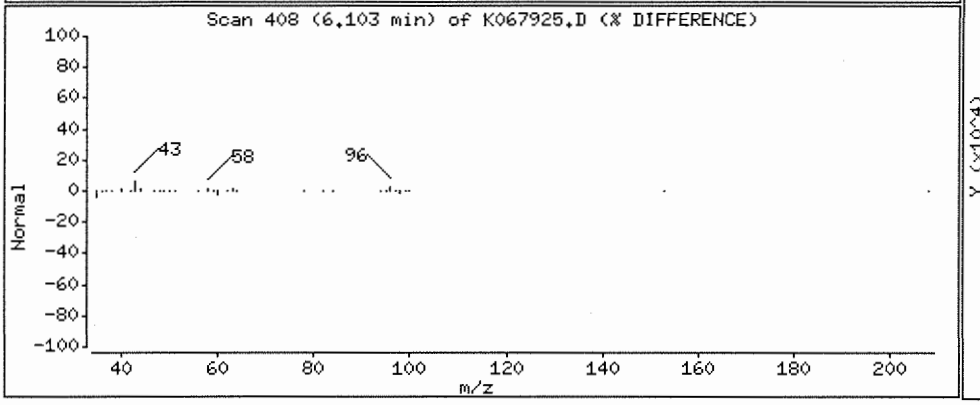












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

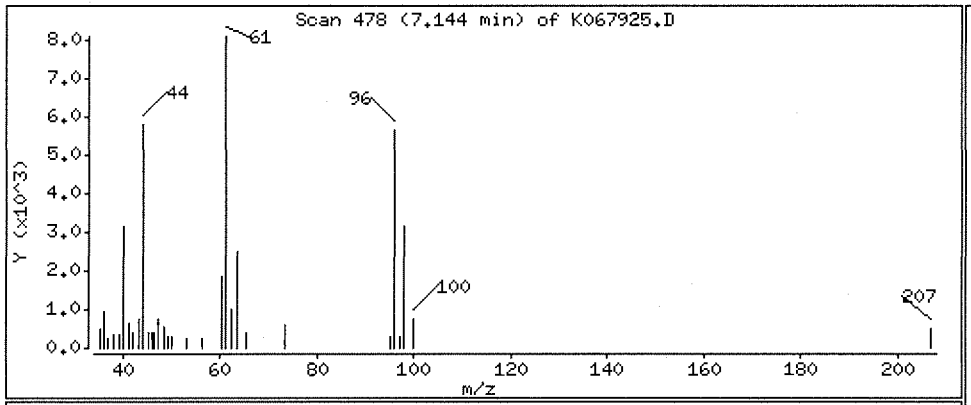
Operator: X

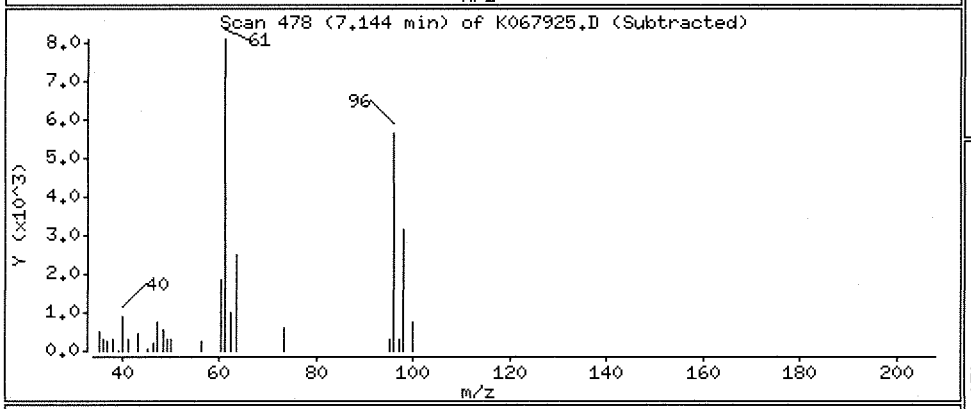
Column phase: DB-624

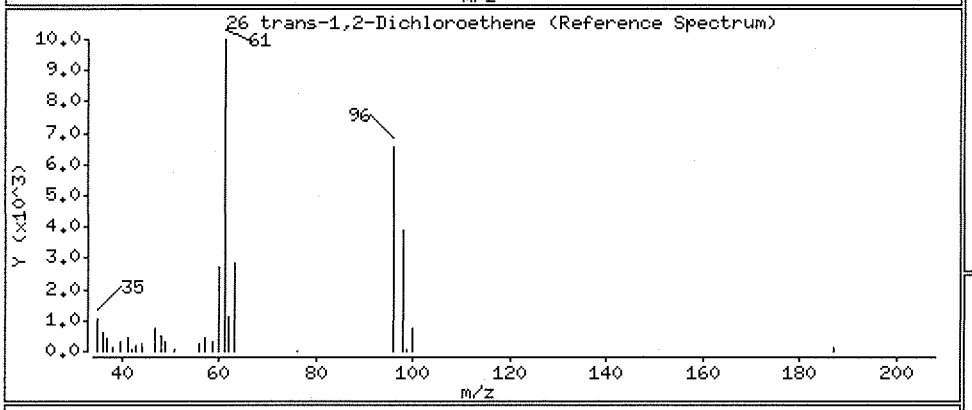
Column diameter: 0.32

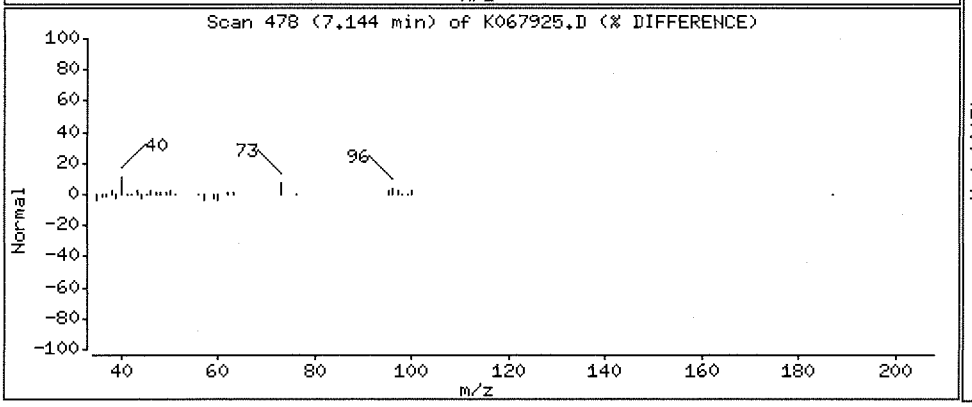
26 trans-1,2-Dichloroethene

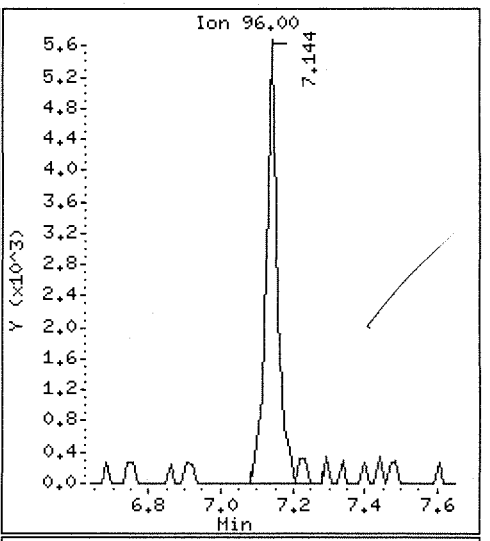
Concentration: 29.3 ug/L

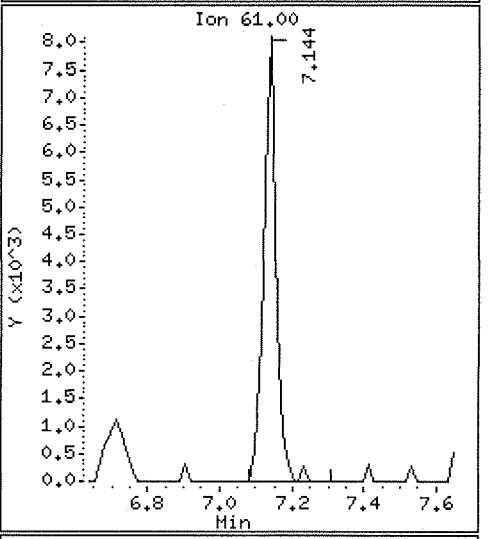


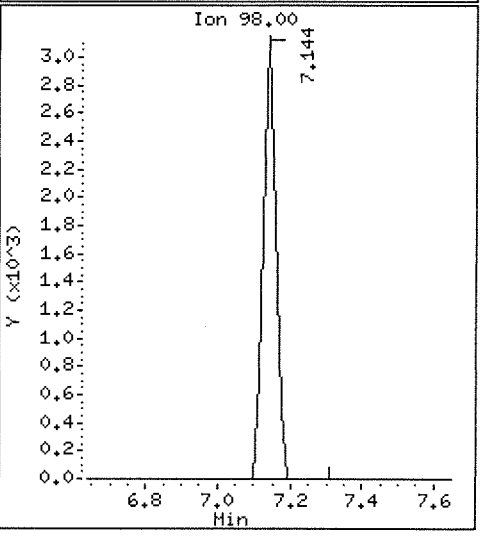












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

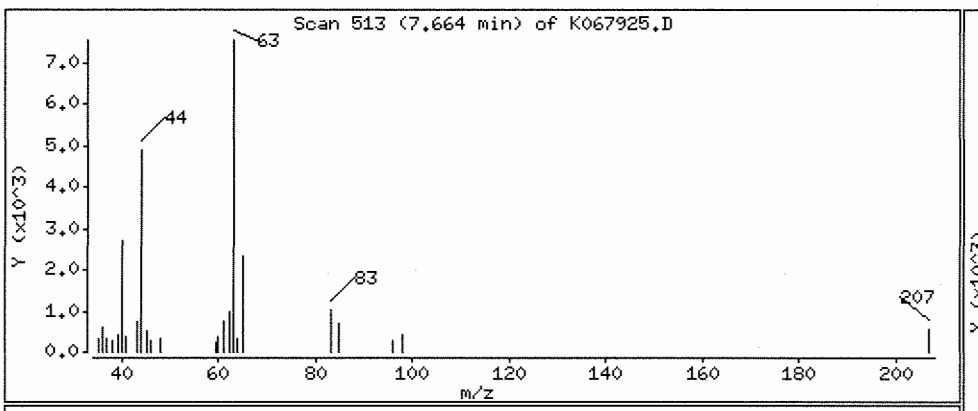
Operator: X

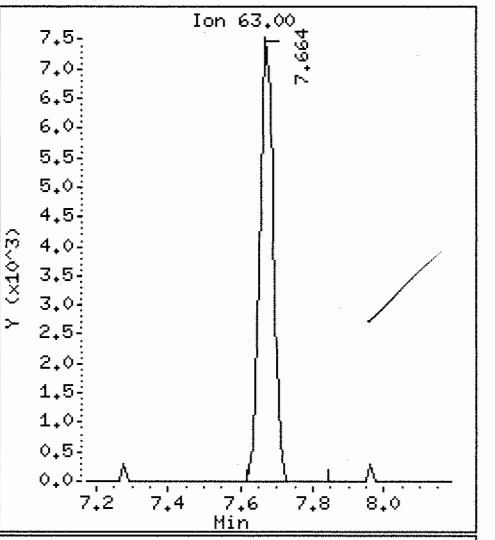
Column phase: DB-624

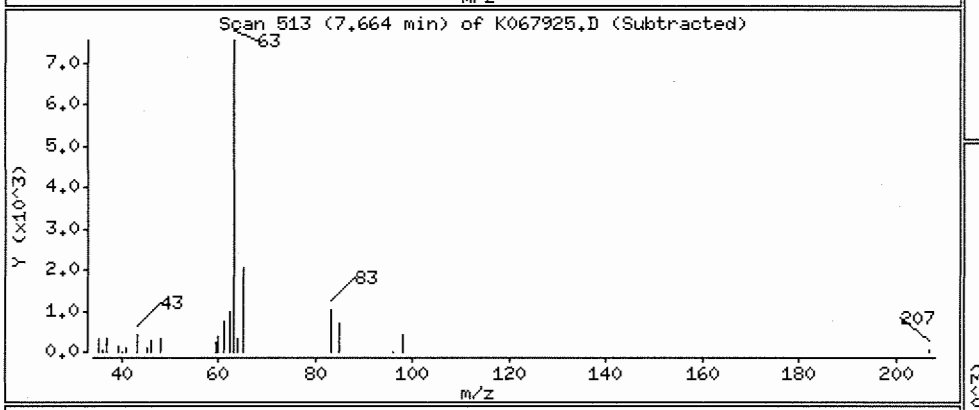
Column diameter: 0.32

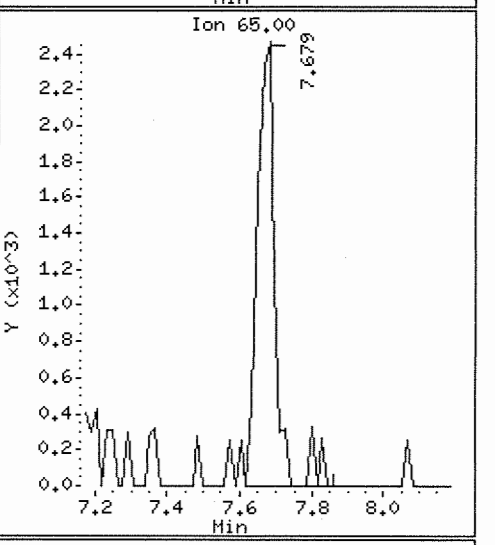
28 1,1-Dichloroethane

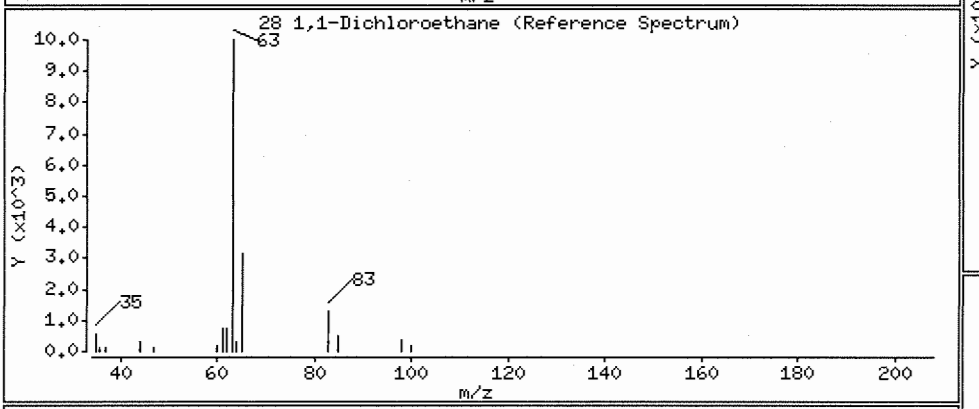
Concentration: 21.6 ug/L

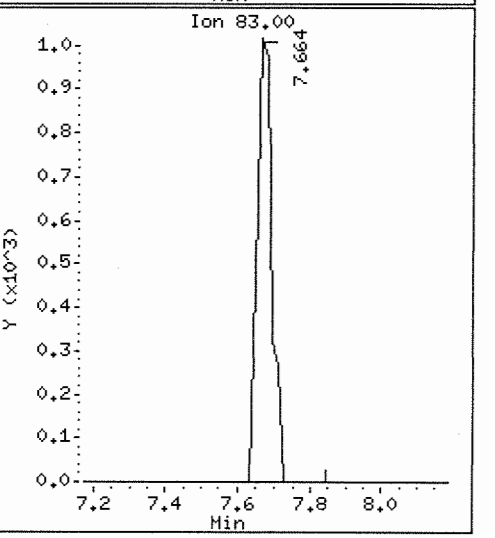


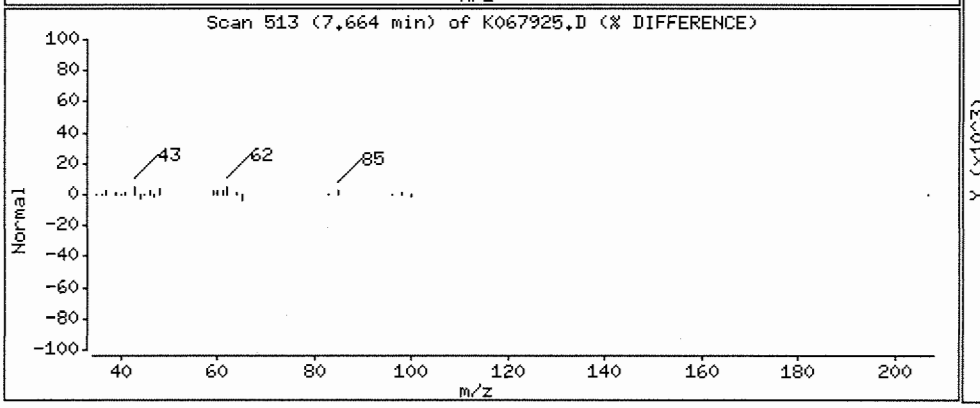












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

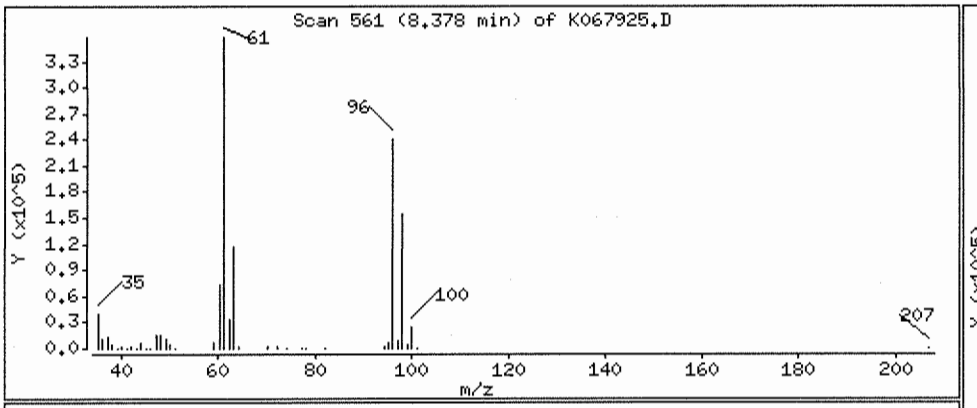
Operator: X

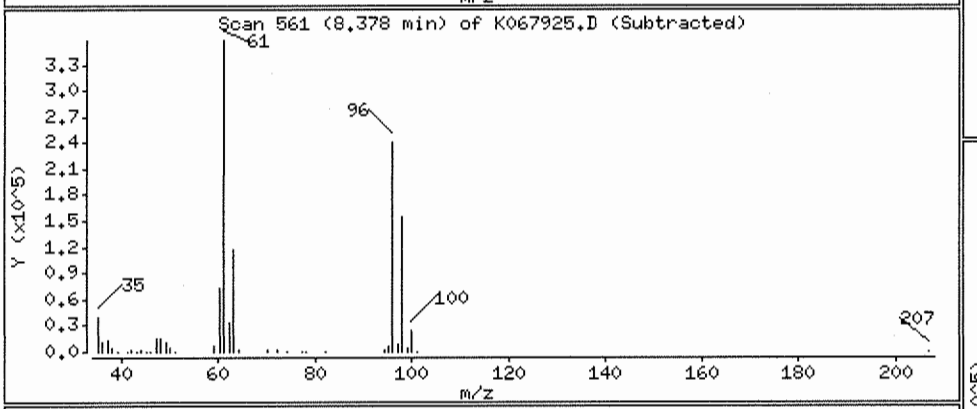
Column phase: DB-624

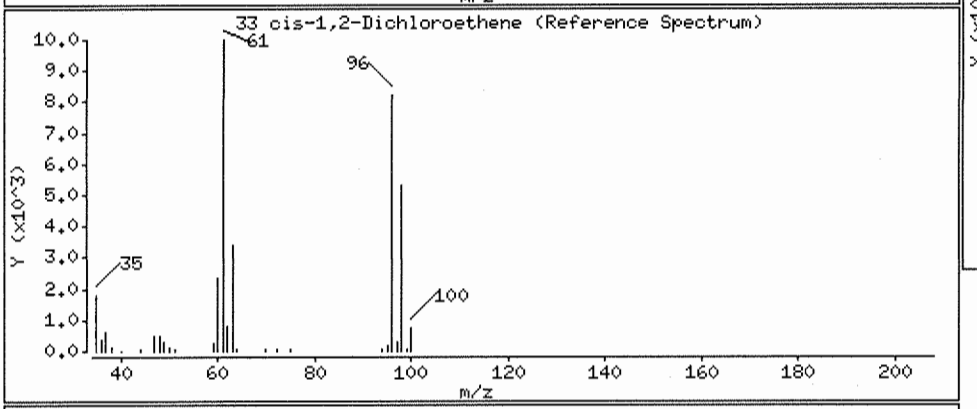
Column diameter: 0.32

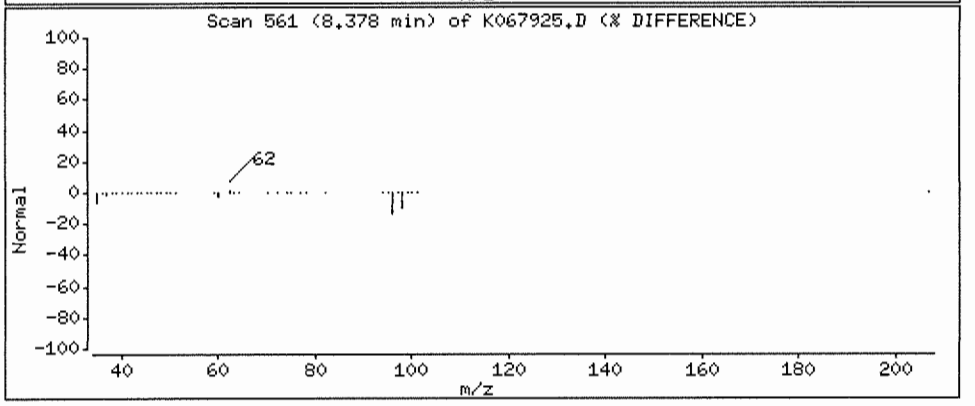
33 cis-1,2-Dichloroethene

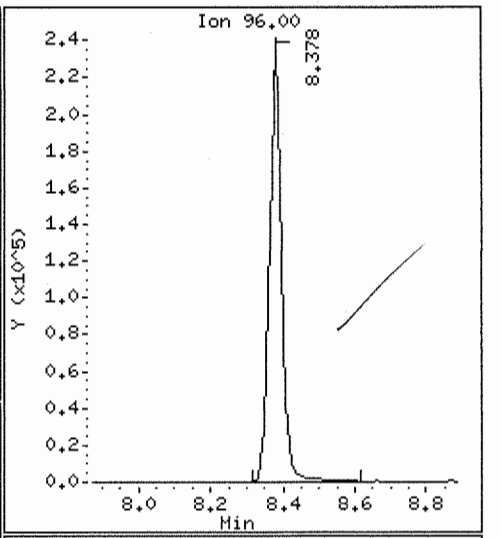
Concentration: 1110 ug/L

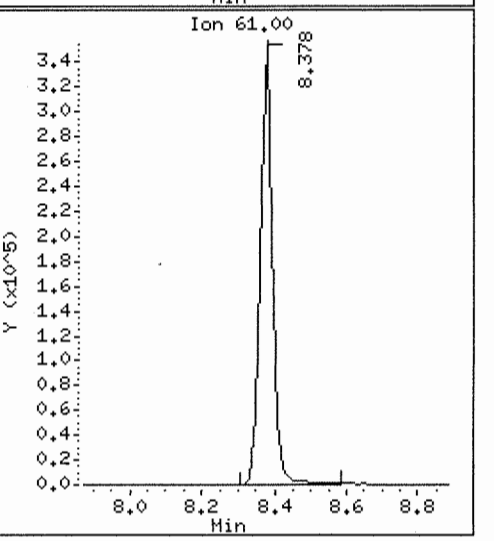












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

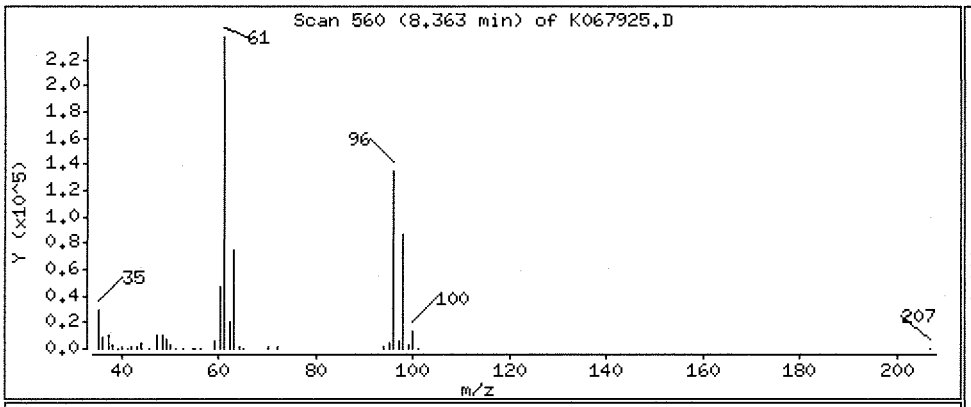
Operator: X

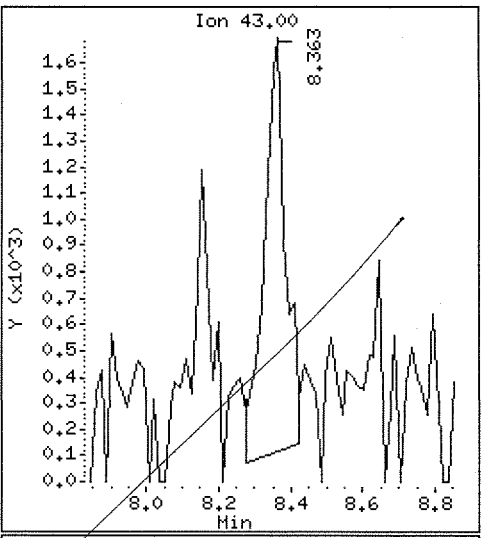
Column phase: DB-624

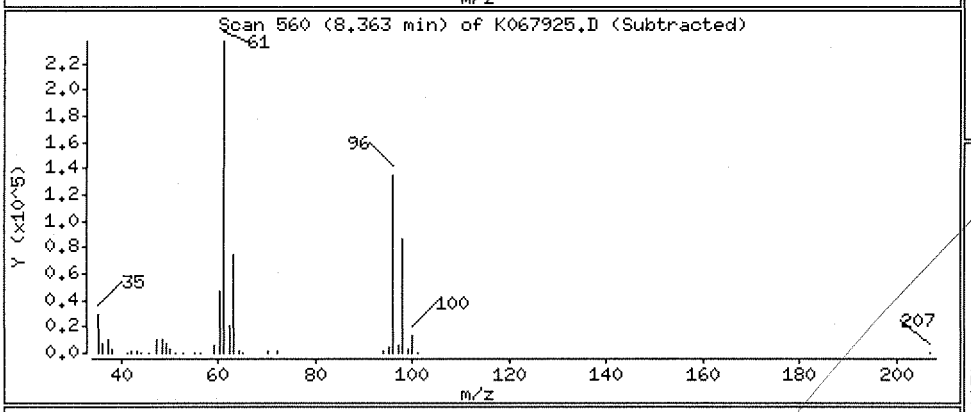
Column diameter: 0.32

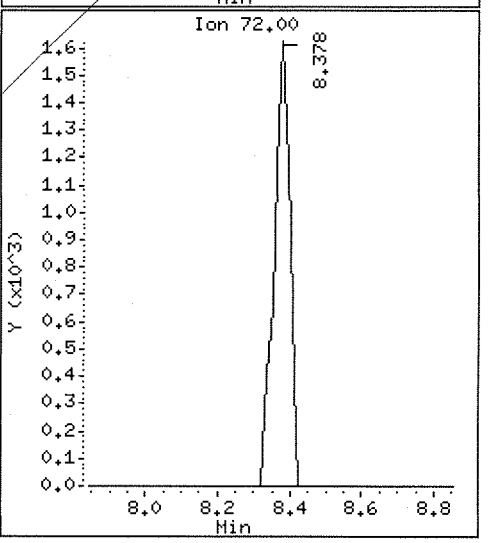
35 2-Butanone

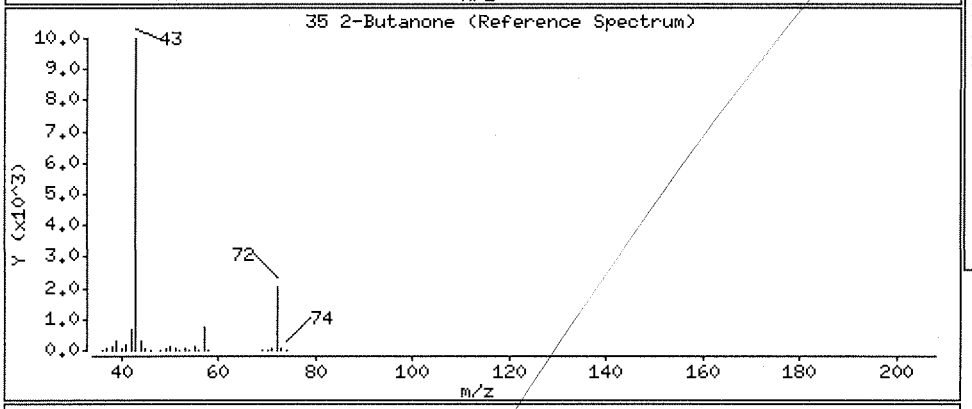
Concentration: 114 ug/L

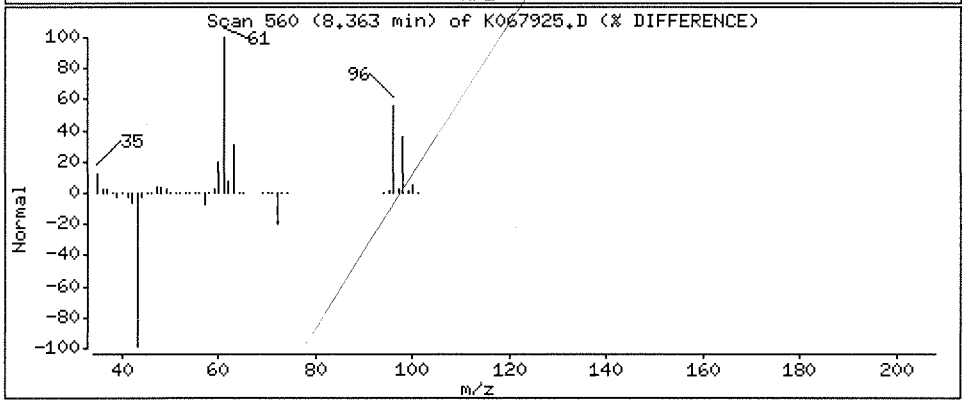












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

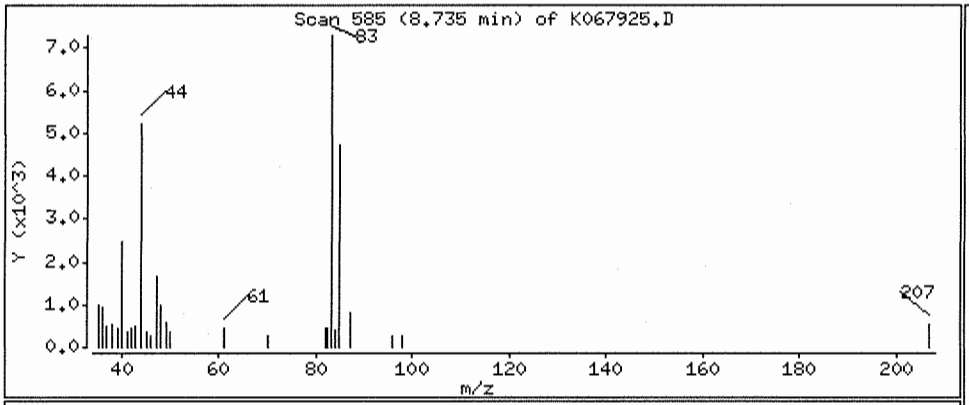
Operator: X

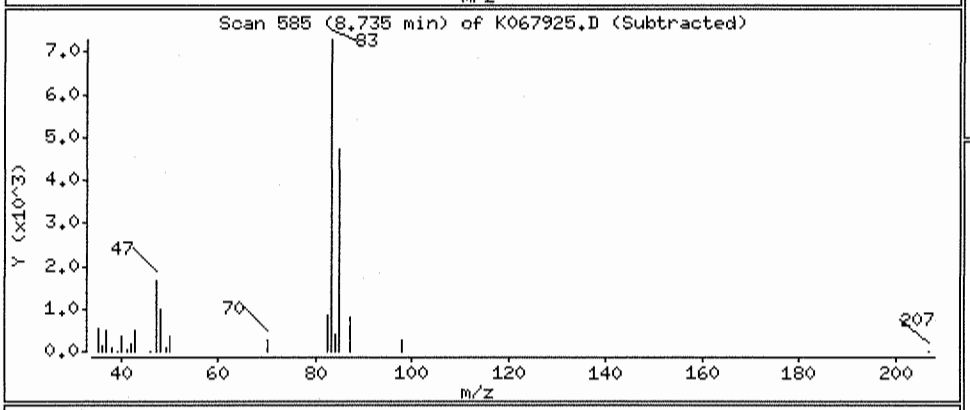
Column phase: DB-624

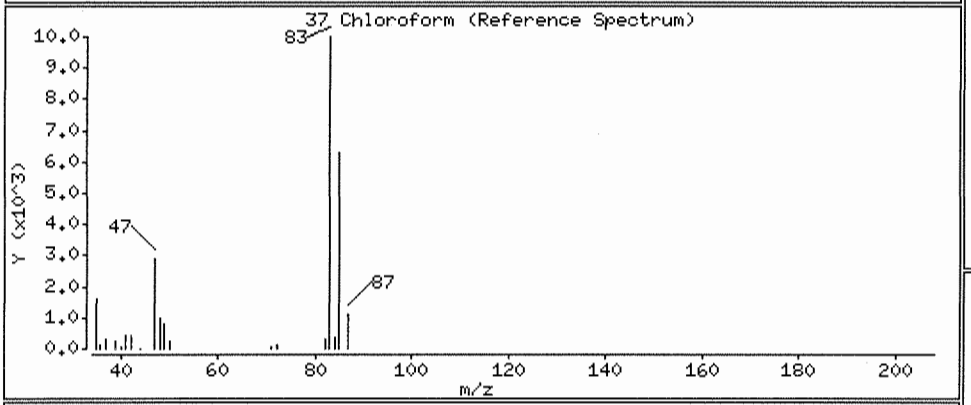
Column diameter: 0.32

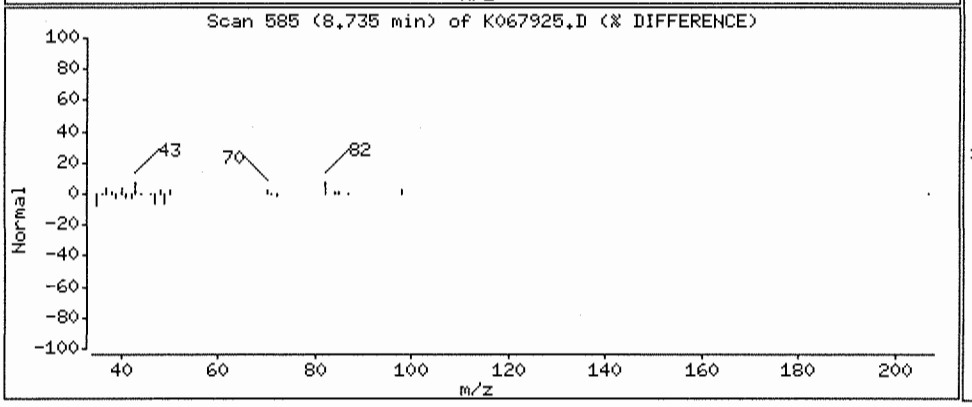
37 Chloroform

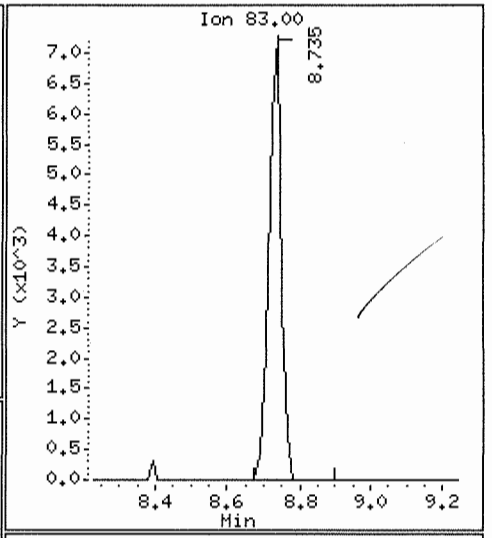
Concentration: 18.2 ug/L

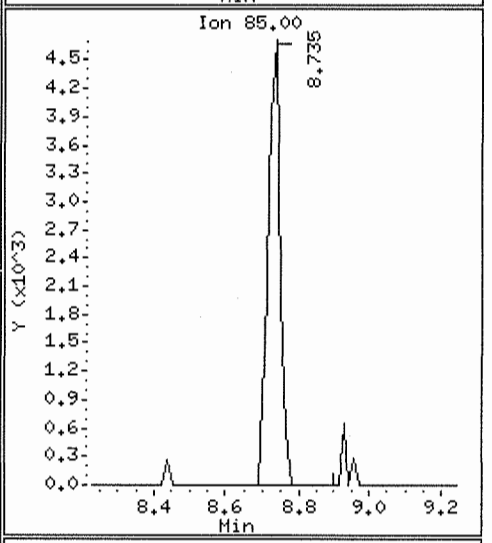


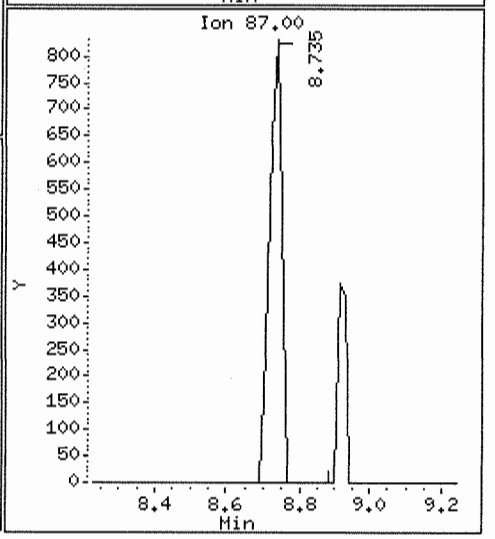












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

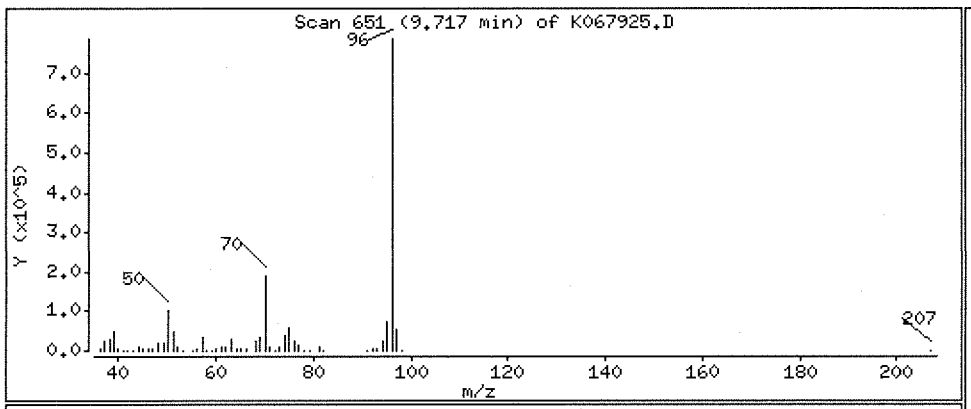
Operator: X

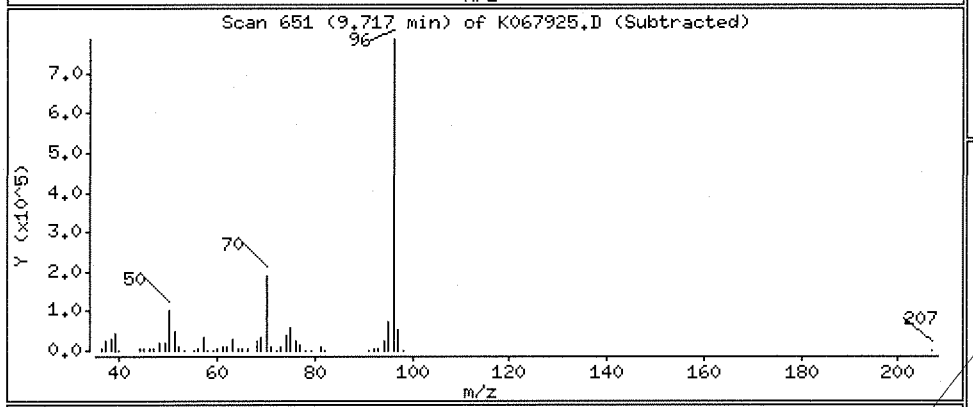
Column phase: DB-624

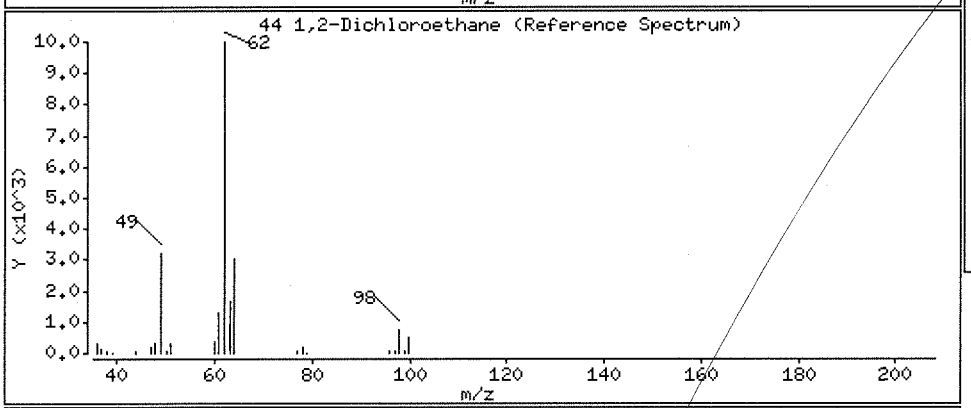
Column diameter: 0.32

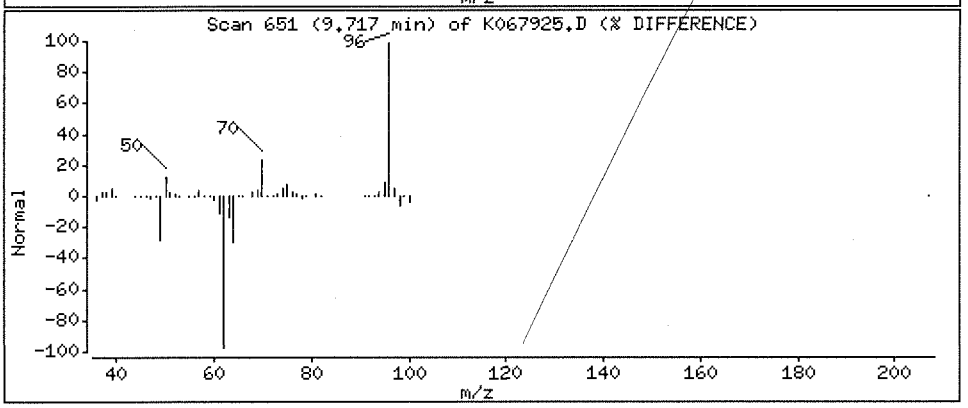
44 1,2-Dichloroethane

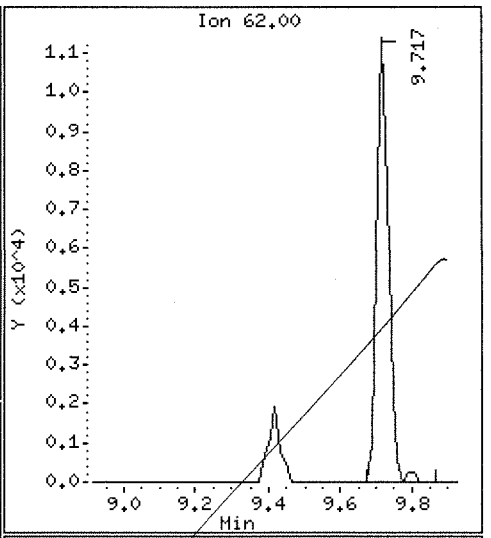
Concentration: 39.0 ug/L

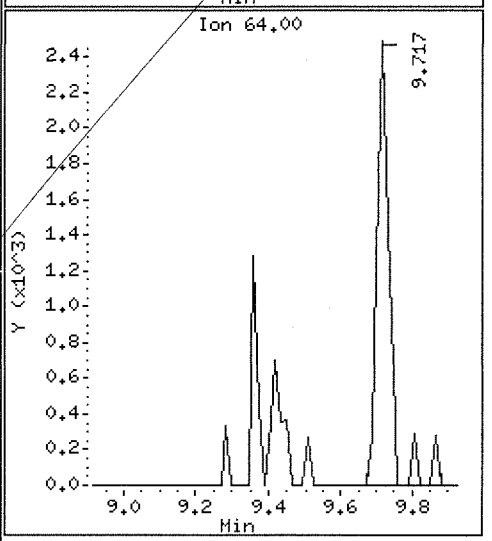












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

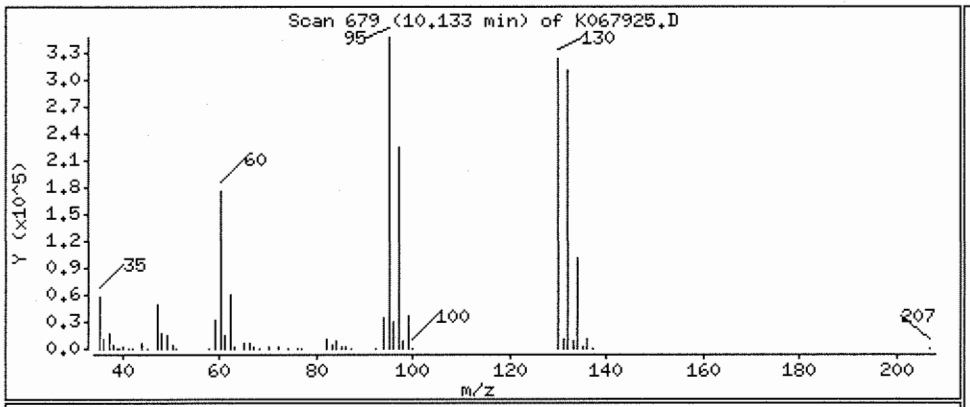
Operator: X

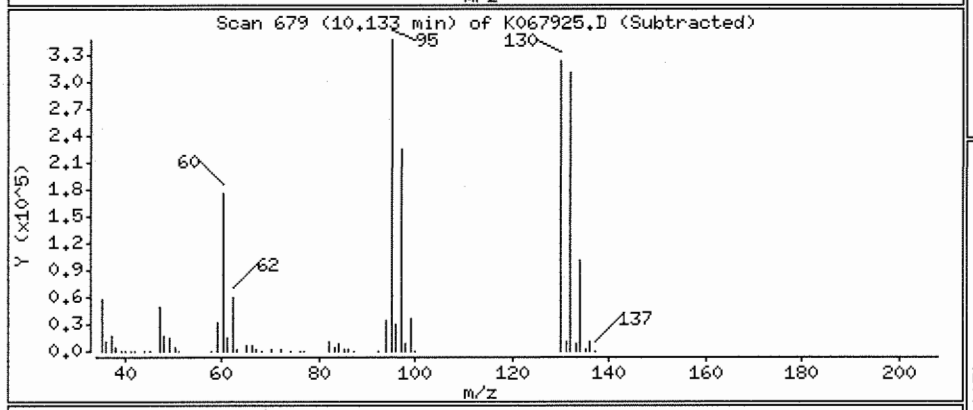
Column phase: DB-624

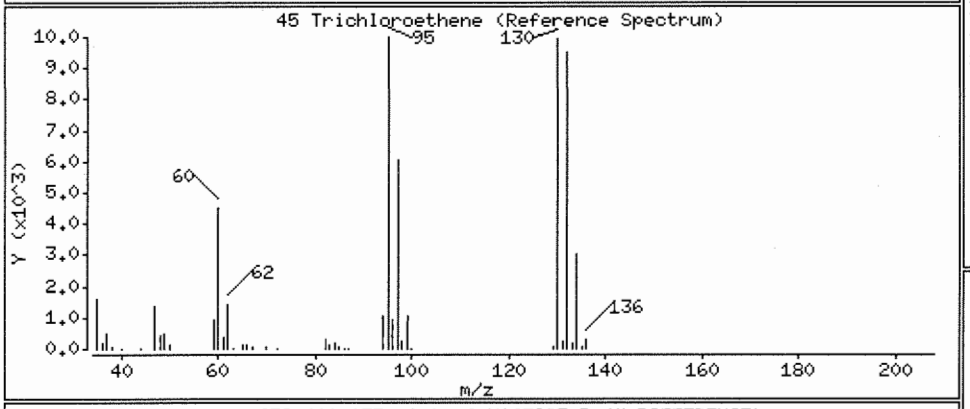
Column diameter: 0.32

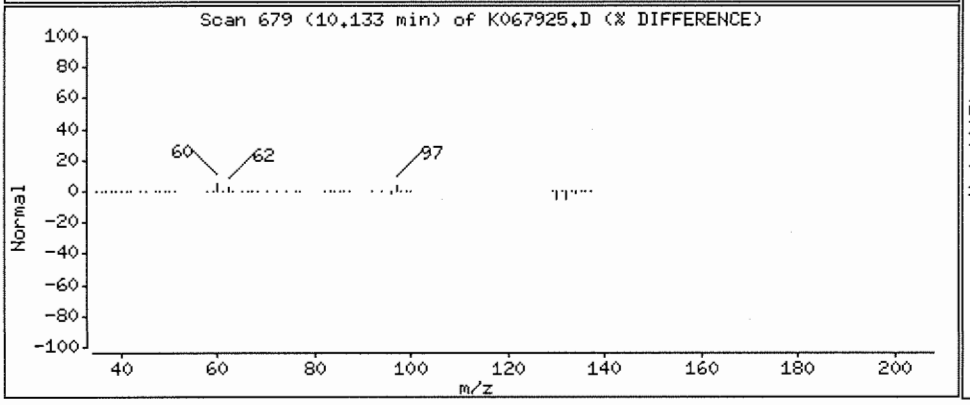
45 Trichloroethene

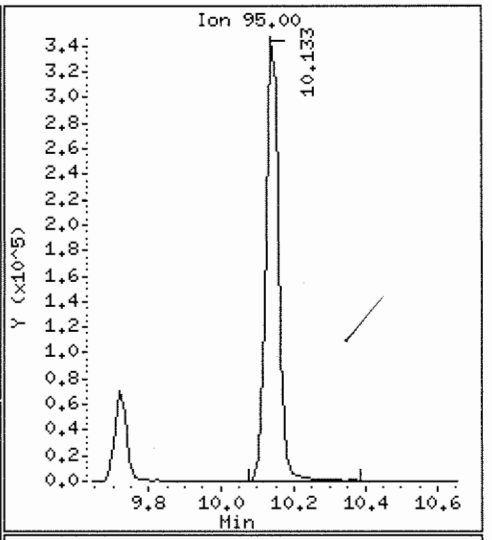
Concentration: 1620 ug/L

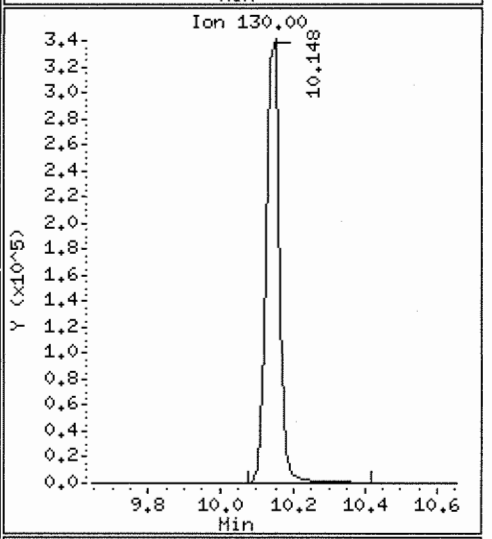


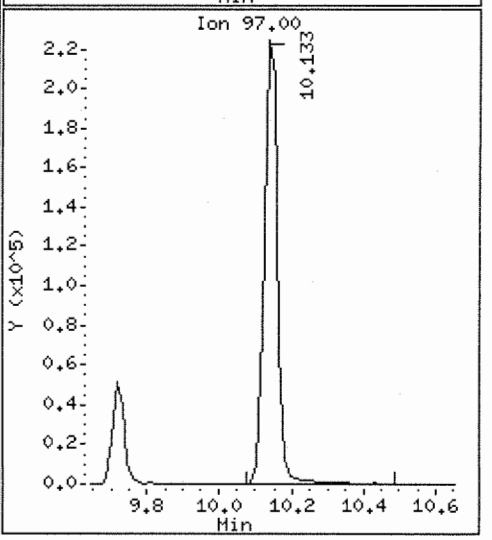












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Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

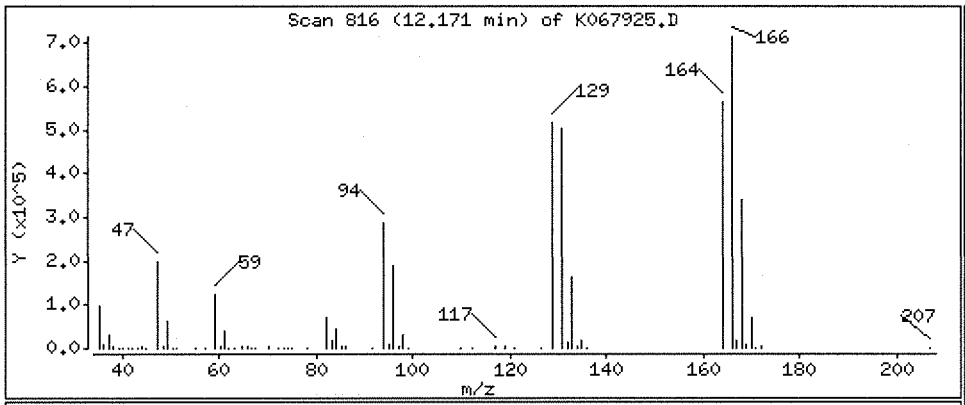
Operator: X

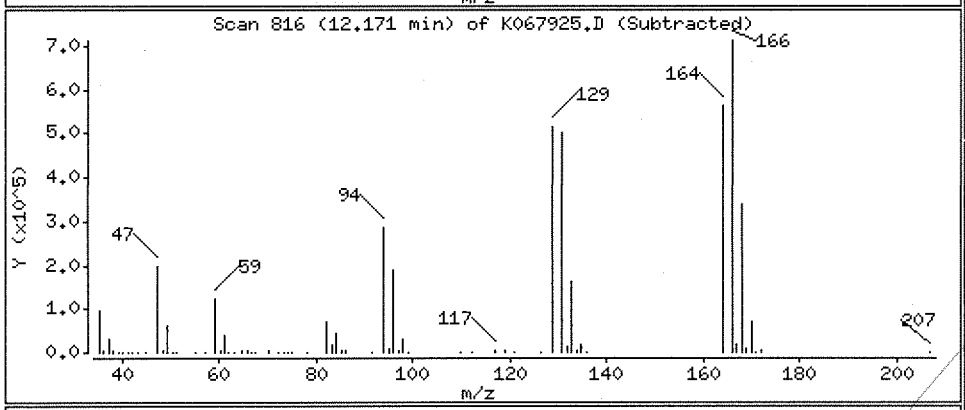
Column phase: DB-624

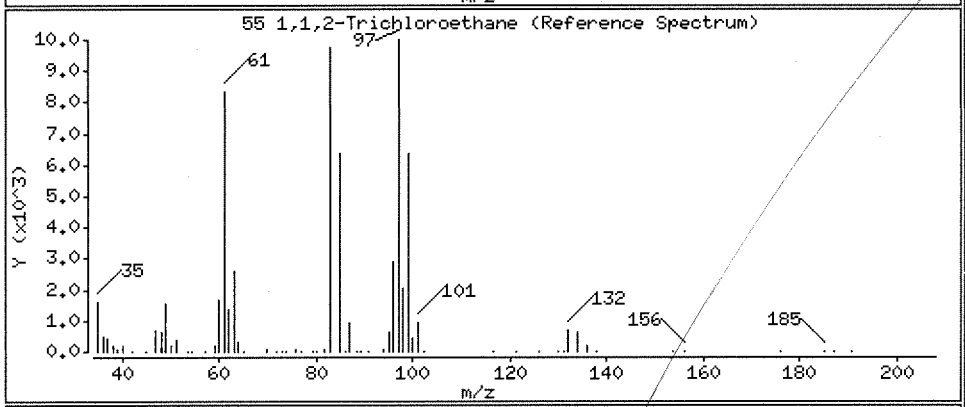
Column diameter: 0.32

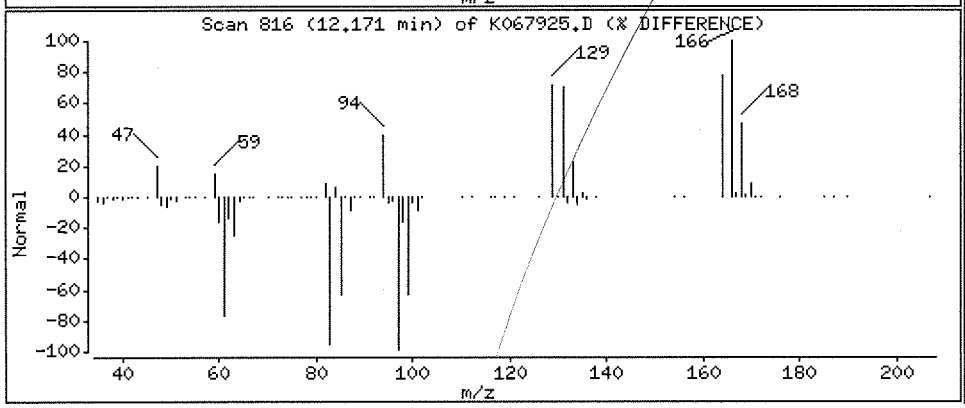
55 1,1,2-Trichloroethane

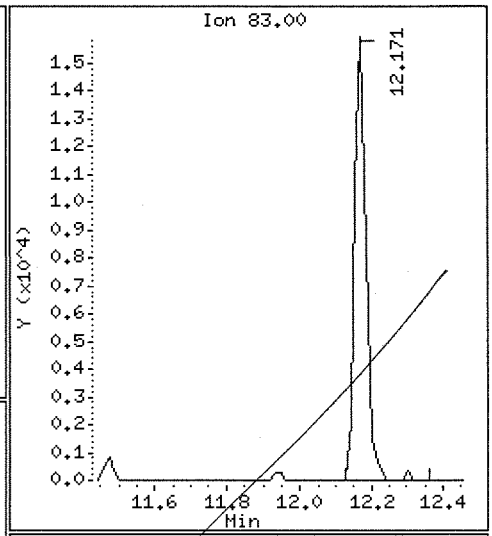
Concentration: 99.3 ug/L

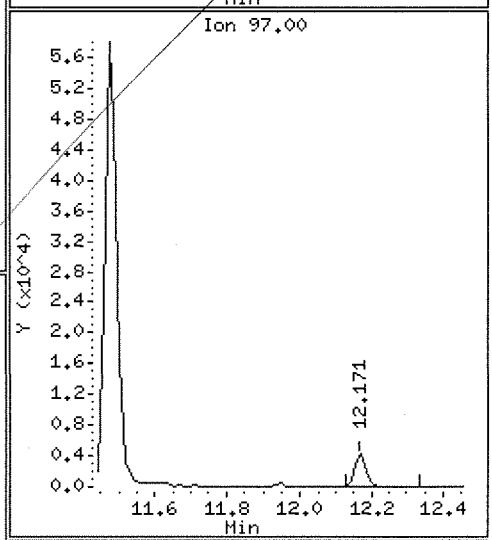


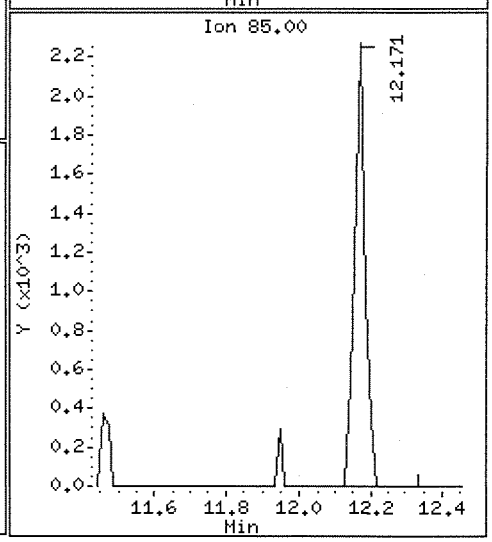












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067925.D

Date : 26-OCT-2006 09:13

Client ID: T-52-GW11DL

Instrument: MSK.i

Sample Info: D0601625-002DL

Purge Volume: 10.0

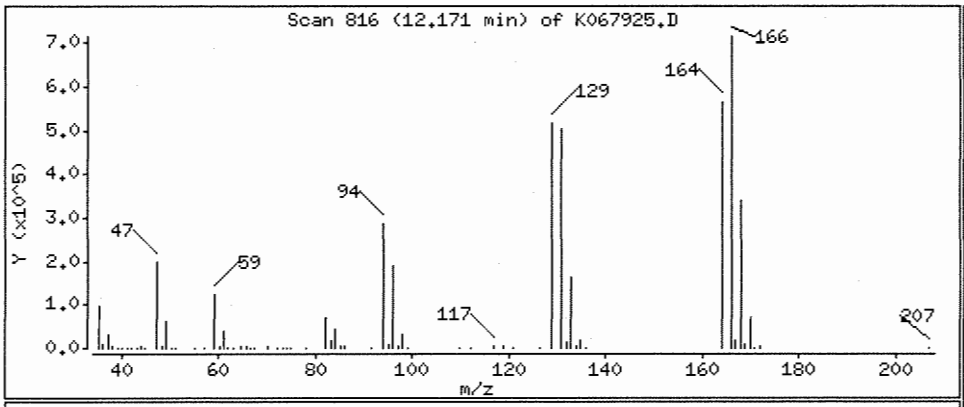
Operator: X

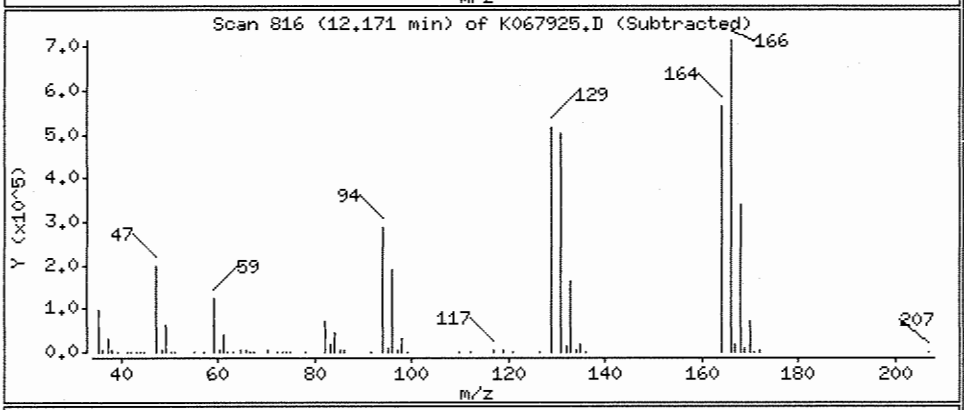
Column phase: DB-624

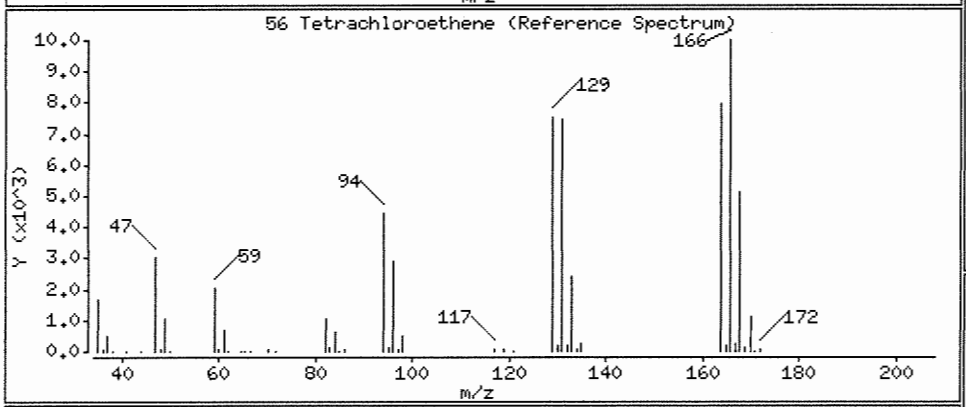
Column diameter: 0.32

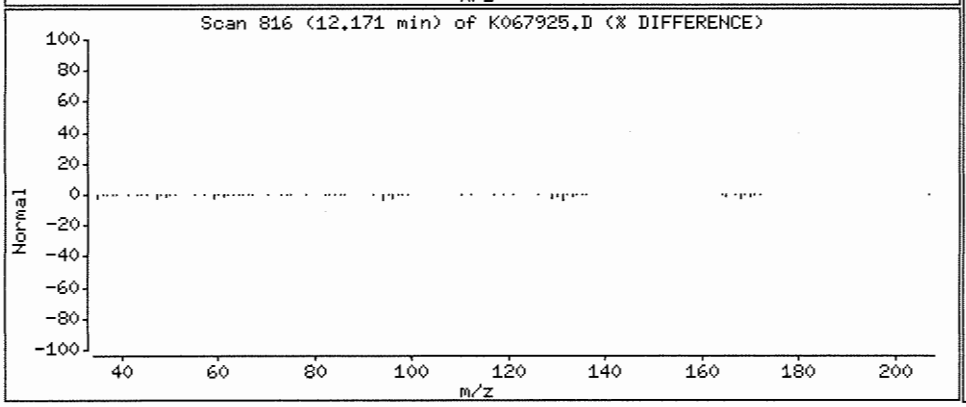
56 Tetrachloroethene

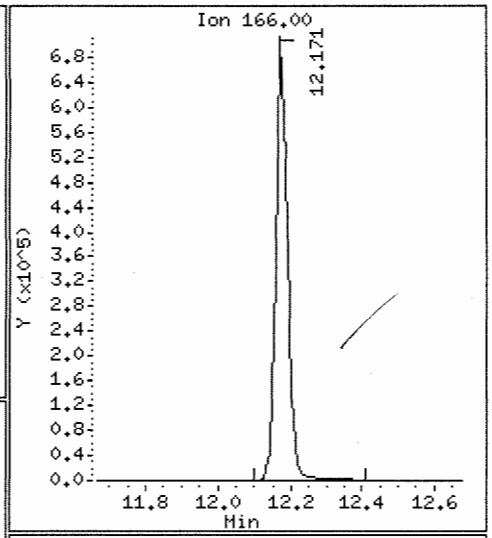
Concentration: 3150 ug/L

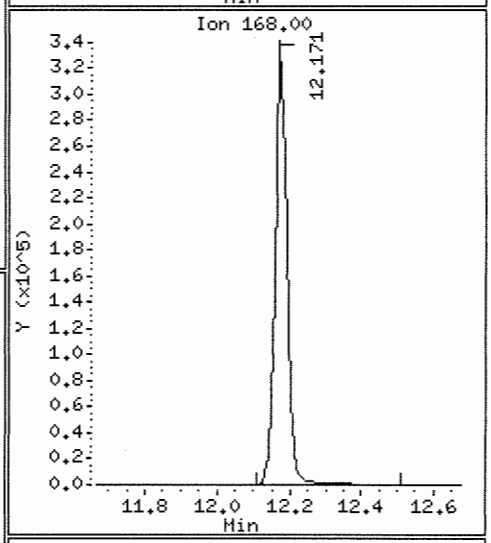


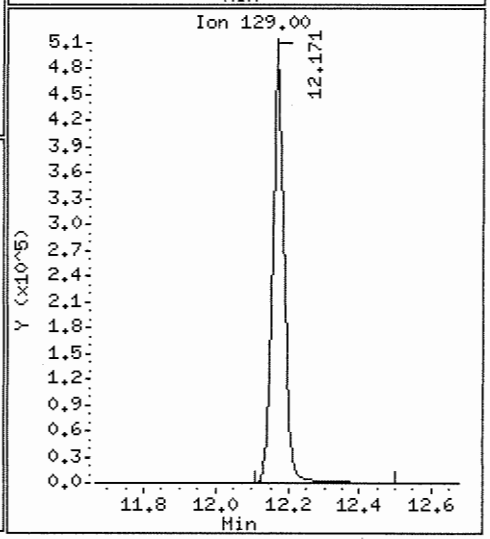












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0601625-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloromethane	ND	U	0.24	1.0	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromomethane	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloroethane	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Acetone	ND	U	0.91	10	1	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	**0.16**	J	0.14	2.0	1	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	ND	U	0.24	10	1	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	**2.6**	J	0.66	10	1	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	ND	U	0.17	0.50	1	10/26/2006	10/26/2006	K1025W02	
Chloroform	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
Benzene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	10/26/2006	10/26/2006	K1025W02	
Toluene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	ND	U	0.49	10	1	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	ND	U	0.12	1.0	1	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0601625-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	10/26/2006	10/26/2006	K1025W02	
Ethylbenzene	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	ND	U	0.10	1.5	1	10/26/2006	10/26/2006	K1025W02	
Styrene	ND	U	0.070	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromoform	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	ND	U	0.13	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	10/26/2006	10/26/2006	K1025W02	
Naphthalene	1.2		0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	106	79-135	10/26/2006	
4-Bromofluorobenzene - SS	110	82-124	10/26/2006	
Dibromofluoromethane - SS	112	84-127	10/26/2006	
Toluene-d8 - SS	102	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067914.D
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Inj Date : 26-OCT-2006 04:19
Operator : X Inst ID: MSK.i
Smp Info : D0601625-003
Misc Info :
Comment :
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Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

10/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.729	9.733	(1.000)	2377959	10.0000	
* 2	Chlorobenzene-d5	117	13.075	13.065	(1.000)	1335881	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.664	15.668	(1.000)	391310	10.0000	
$ 4	Dibromofluoromethane	113	8.926	8.930	(0.917)	774024	11.1988	11.2
$ 5	1,2-Dichloroethane-d4	65	9.342	9.331	(0.960)	748671	10.5924	10.6
$ 6	Toluene-d8	98	11.469	11.473	(0.877)	1780469	10.2389	10.2
$ 7	Bromofluorobenzene	174	14.340	14.329	(0.915)	431919	11.0471	11.0
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	Compound Not Detected.					
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	6.486	6.490	(0.667)	33224	0.15936	0.159(a)
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

10/24/4

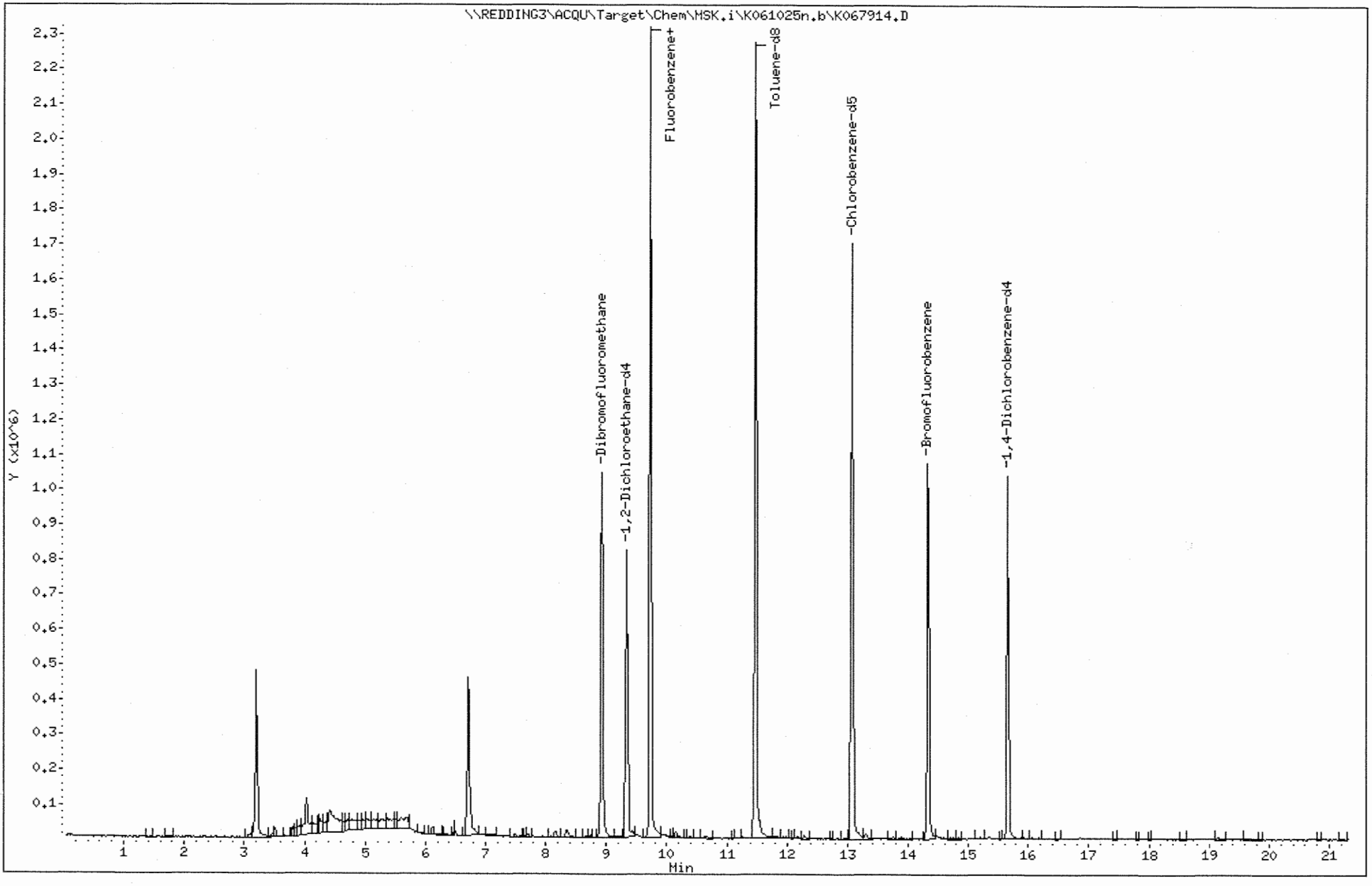
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	8.346	8.350	(0.858)	40341	2.56566	2.56(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.729	9.421	(1.000)	33181	0.38801	0.388(a)
45	Trichloroethene	95	Compound Not Detected.					
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	Compound Not Detected.					
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	19.159	19.148	(1.223)	7295	1.17737	1.18
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067914.D
Date : 26-OCT-2006 04:19
Client ID: QCEB
Sample Info: D0601625-003
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067914.D

Date : 26-OCT-2006 04:19

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0601625-003

Purge Volume: 10.0

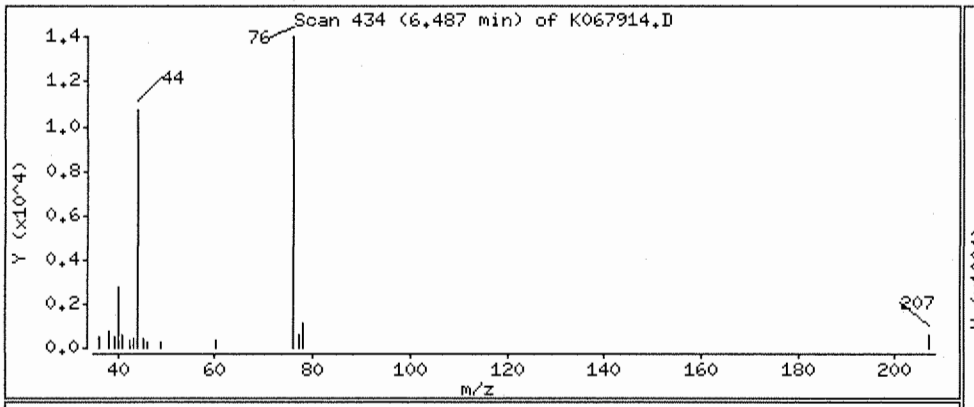
Operator: X

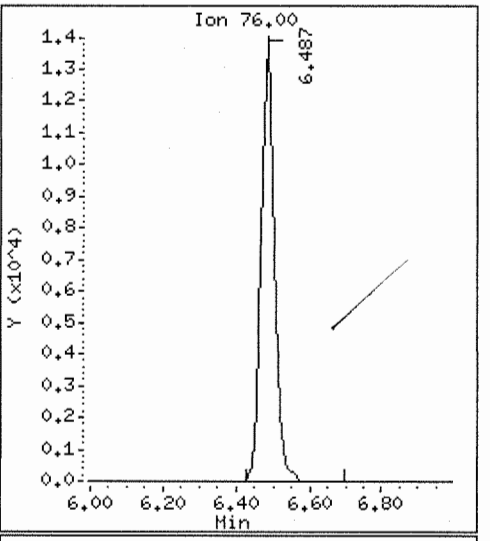
Column phase: DB-624

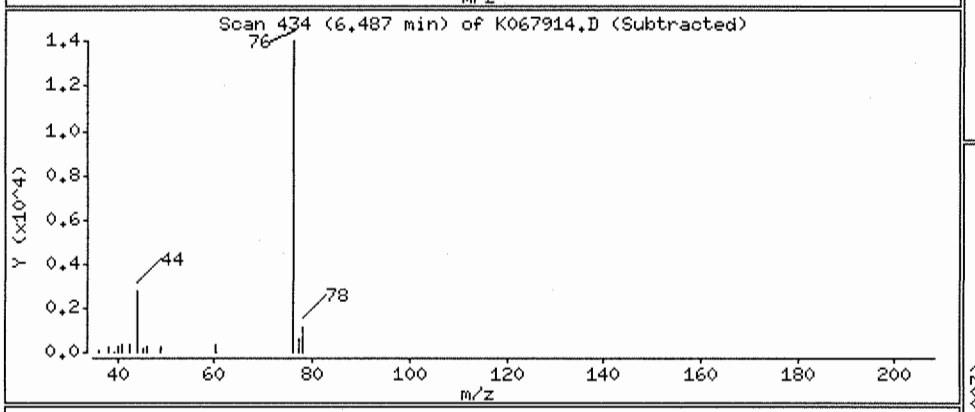
Column diameter: 0.32

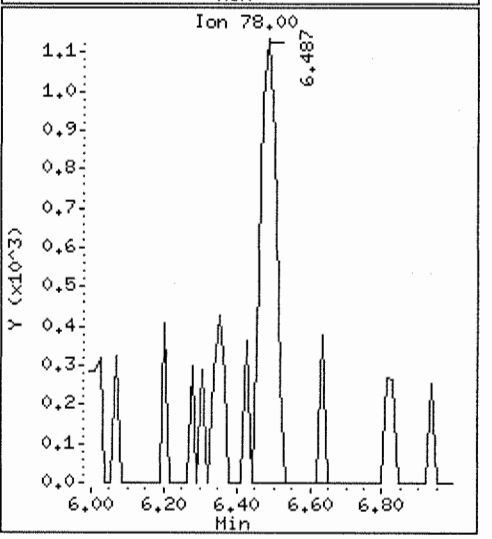
21 Carbon disulfide

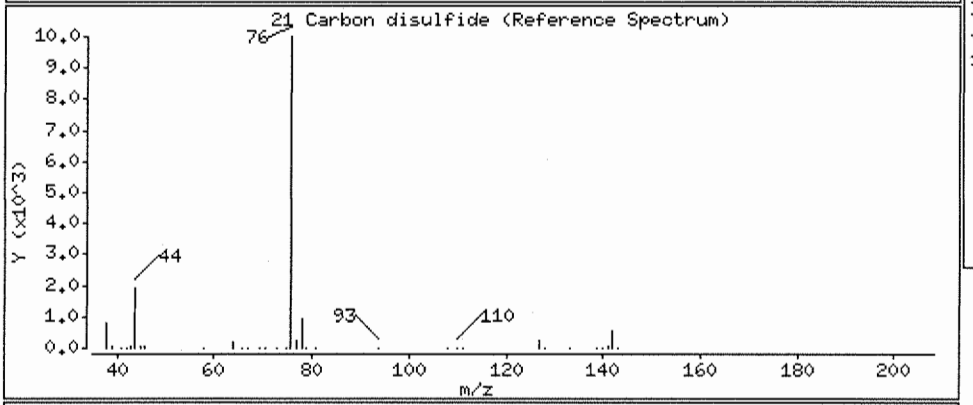
Concentration: 0.159 ug/L

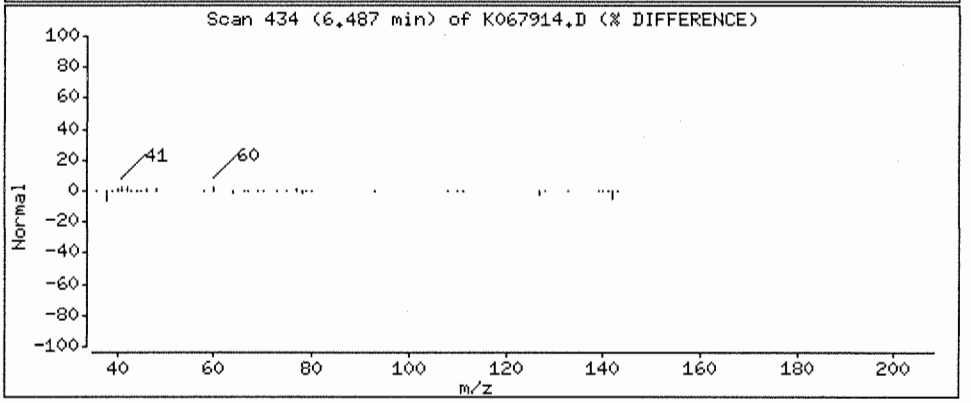












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067914.D

Date : 26-OCT-2006 04:19

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0601625-003

Purge Volume: 10.0

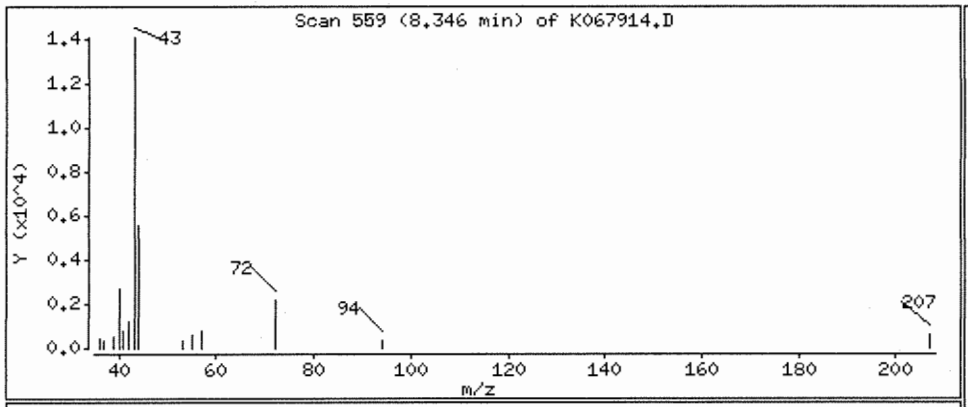
Operator: X

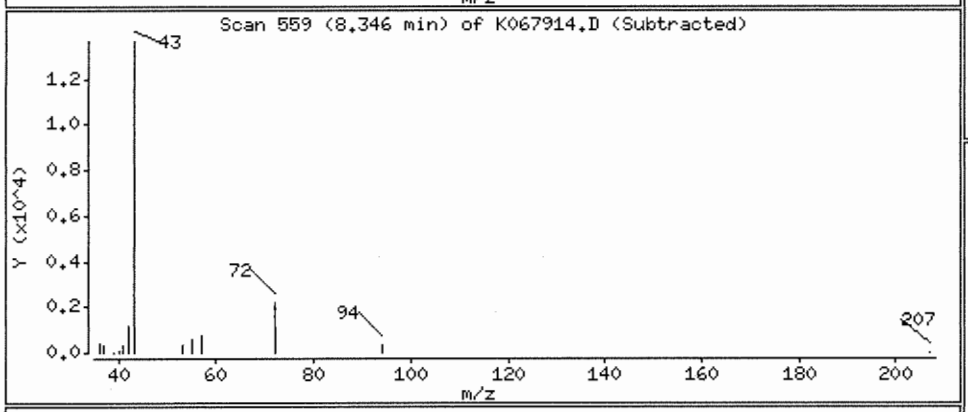
Column phase: DB-624

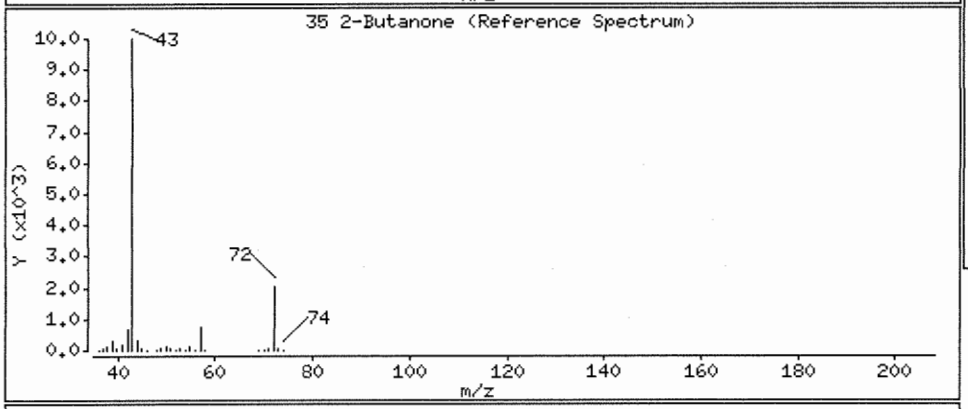
Column diameter: 0.32

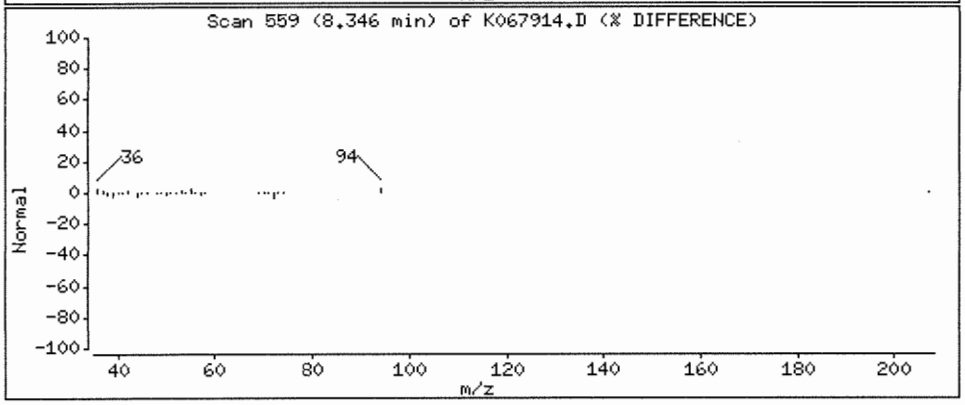
35 2-Butanone

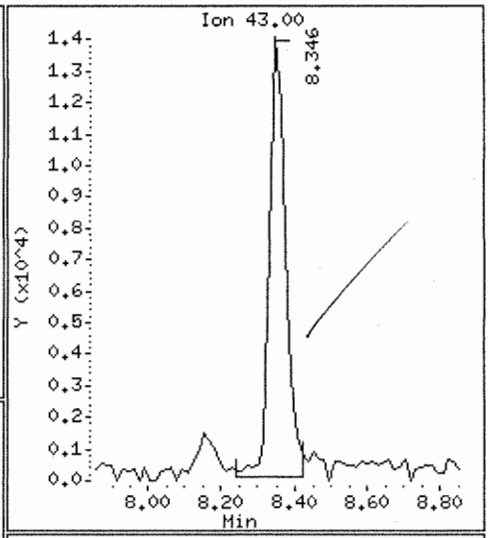
Concentration: 2.56 ug/L

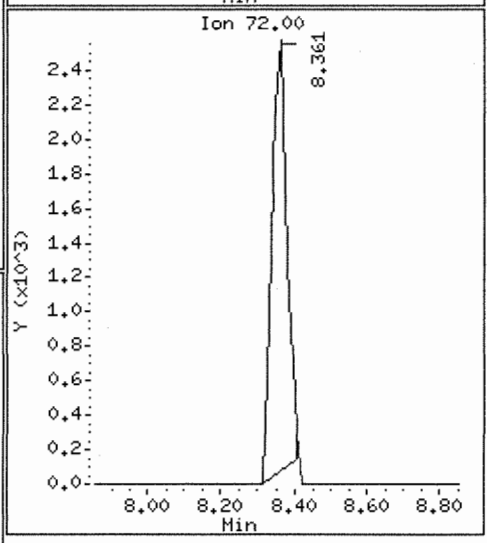












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067914.D

Date : 26-OCT-2006 04:19

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0601625-003

Purge Volume: 10.0

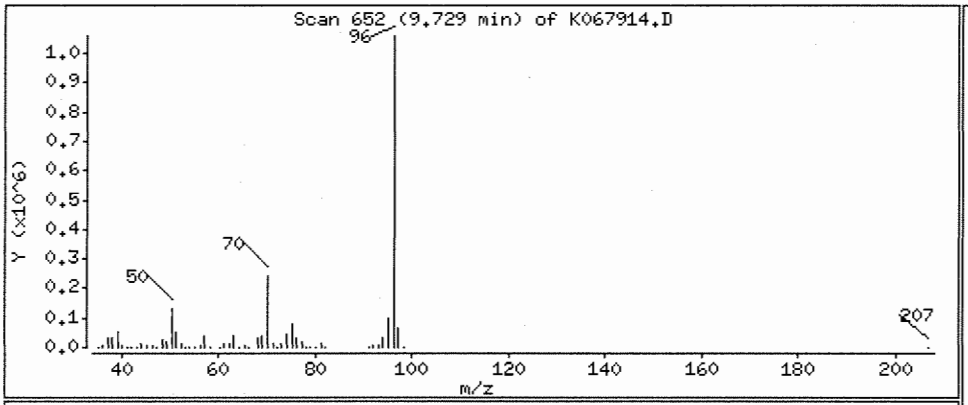
Operator: X

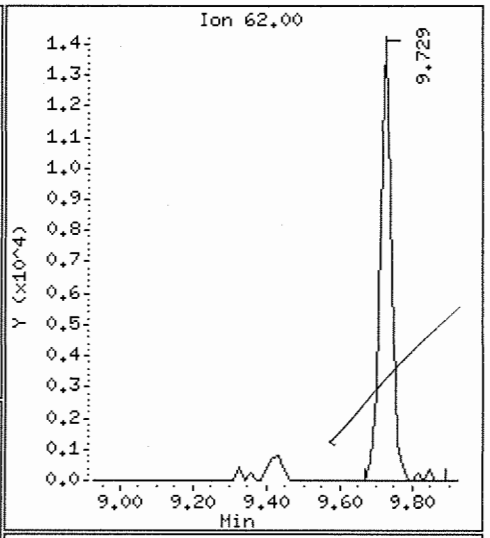
Column phase: DB-624

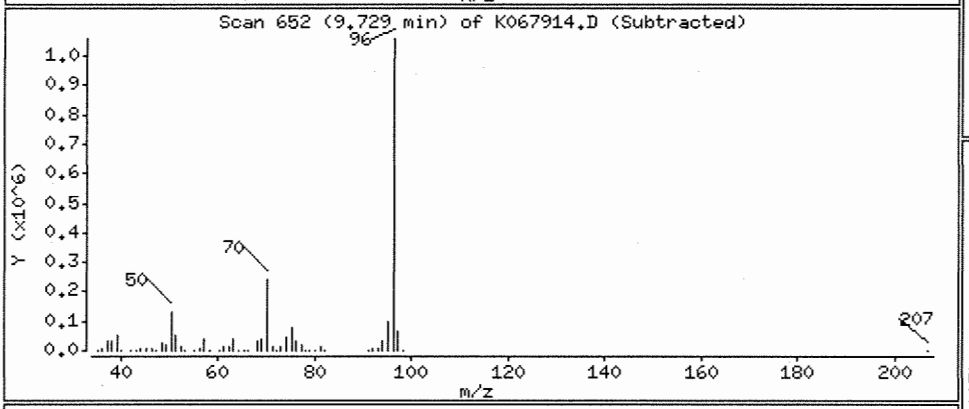
Column diameter: 0.32

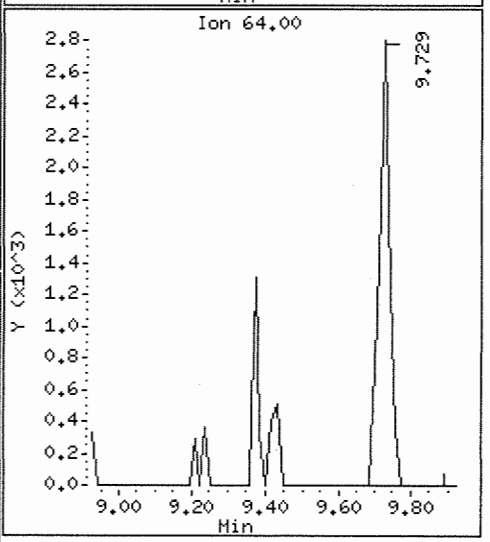
44 1,2-Dichloroethane

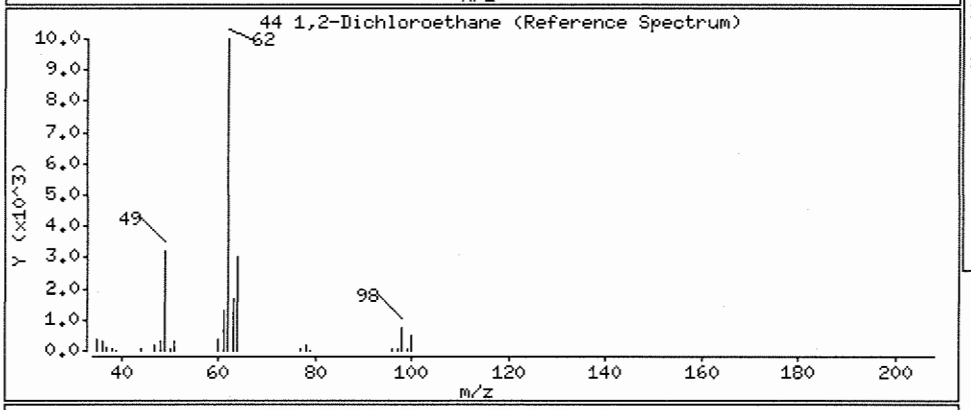
Concentration: 0.388 ug/L

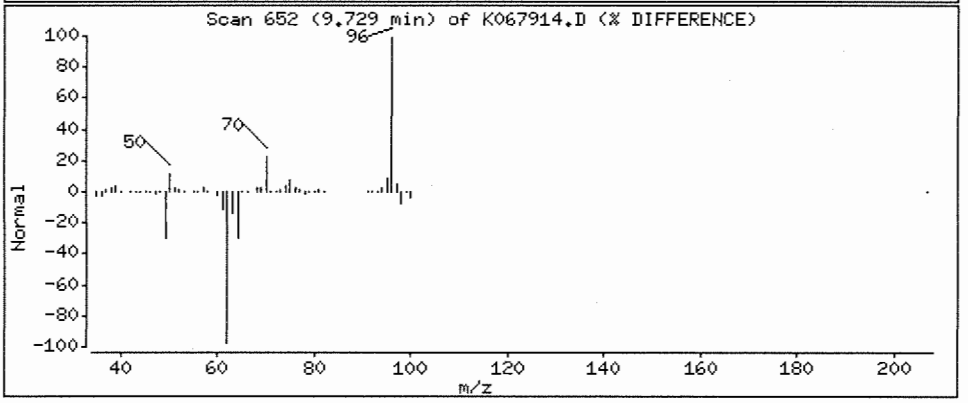












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067914.D

Date : 26-OCT-2006 04:19

Client ID: QCEB

Instrument: MSK.i

Sample Info: D0601625-003

Purge Volume: 10.0

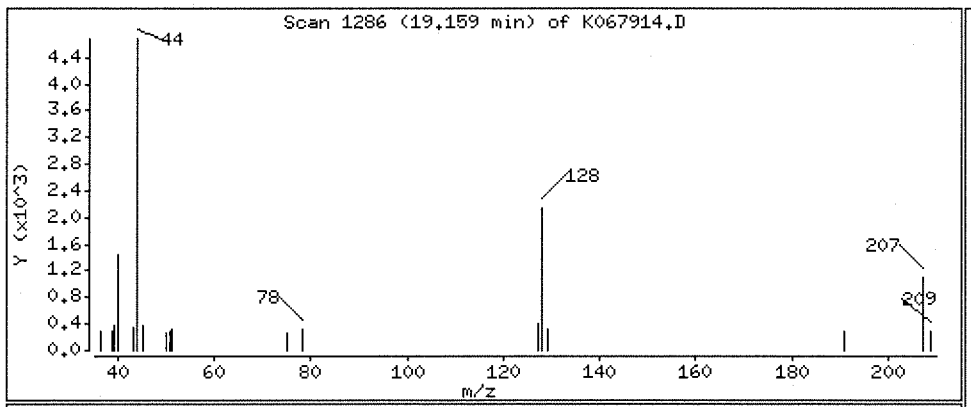
Operator: X

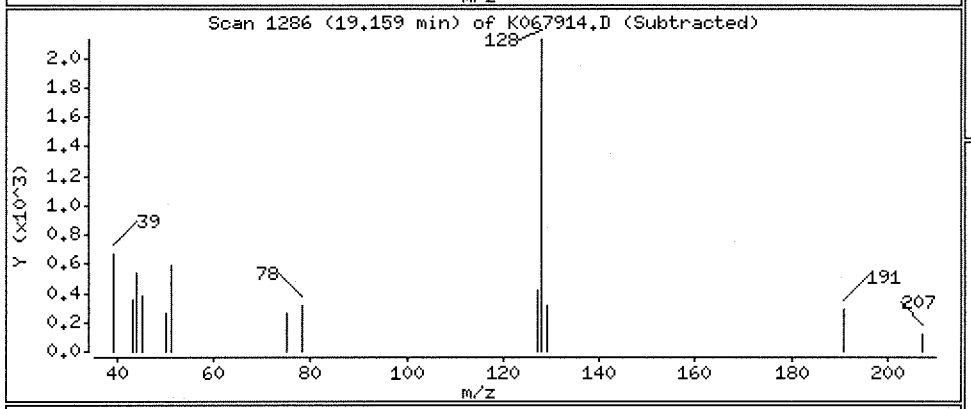
Column phase: DB-624

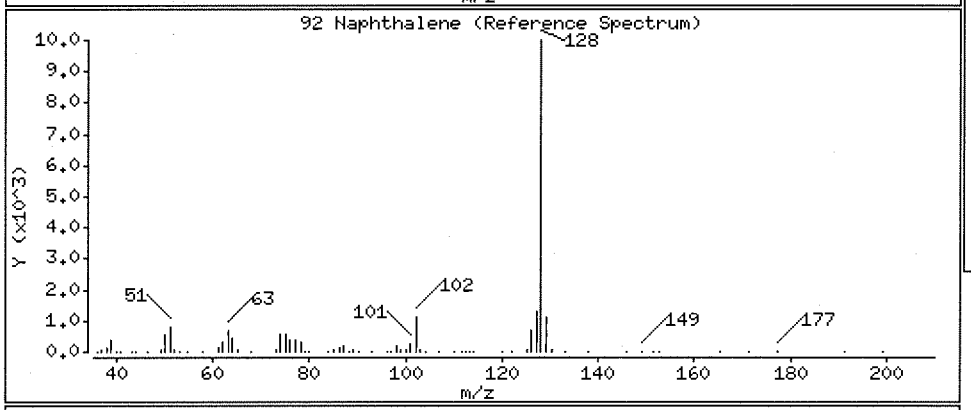
Column diameter: 0.32

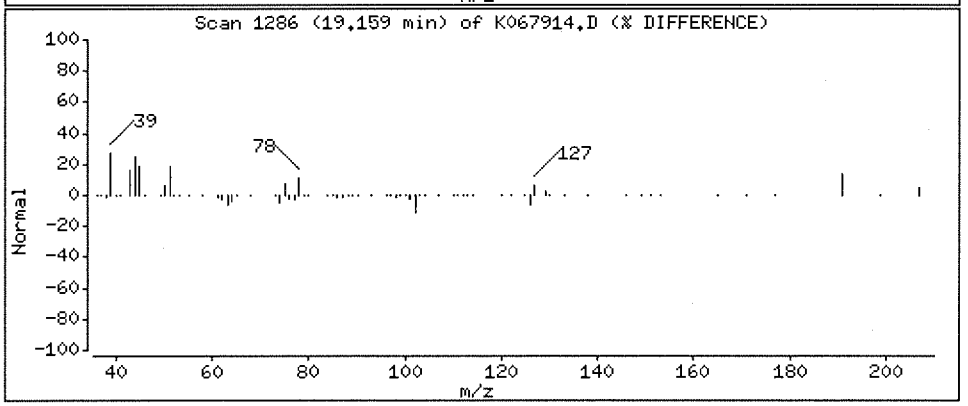
92 Naphthalene

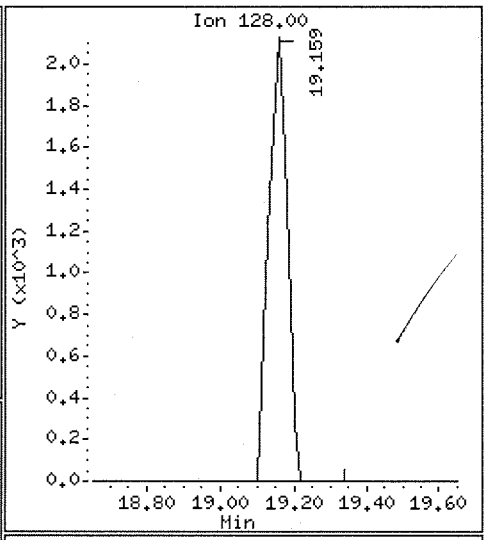
Concentration: 1.18 ug/L

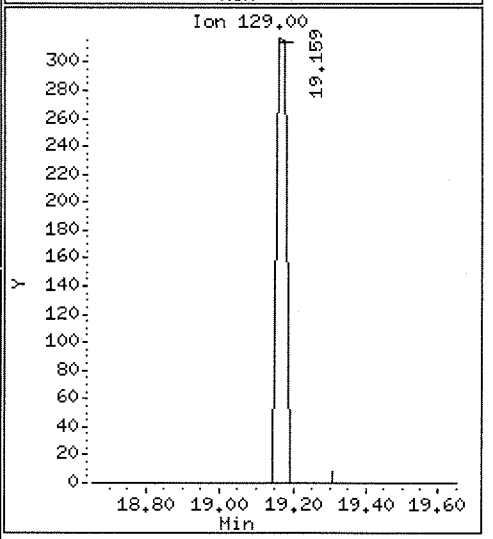












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-52-GW26
Lab Code: D0601625-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloromethane	ND	U	0.24	1.0	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	**0.82**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromomethane	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloroethane	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Acetone	ND	U	0.91	10	1	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	**0.16**	J	0.14	2.0	1	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	**2.2**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	ND	U	0.24	10	1	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	**23**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	ND	U	0.66	10	1	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	ND	U	0.17	0.50	1	10/26/2006	10/26/2006	K1025W02	
Chloroform	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
Benzene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	**0.25**	J	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	10/26/2006	10/26/2006	K1025W02	
Toluene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	**0.21**	J	0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	ND	U	0.49	10	1	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	ND	U	0.12	1.0	1	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-52-GW26
Lab Code: D0601625-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	10/26/2006	10/26/2006	K1025W02	
Ethylbenzene	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	ND	U	0.10	1.5	1	10/26/2006	10/26/2006	K1025W02	
Styrene	ND	U	0.070	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromoform	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	ND	U	0.13	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	10/26/2006	10/26/2006	K1025W02	
Naphthalene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	112	79-135	10/26/2006	
4-Bromofluorobenzene - SS	110	82-124	10/26/2006	
Dibromofluoromethane - SS	116	84-127	10/26/2006	
Toluene-d8 - SS	101	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D
Lab Smp Id: D0601625-004 Client Smp ID: T-52-GW26
Inj Date : 26-OCT-2006 04:46
Operator : X Inst ID: MSK.i
Smp Info : D0601625-004
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

B 10/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.718	9.733	(1.000)	2288783	10.0000	
* 2	Chlorobenzene-d5	117	13.065	13.065	(1.000)	1298153	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.668	15.668	(1.000)	394782	10.0000	
$ 4	Dibromofluoromethane	113	8.930	8.930	(0.919)	768672	11.5546	11.6
$ 5	1,2-Dichloroethane-d4	65	9.331	9.331	(0.960)	763713	11.2262	11.2
$ 6	Toluene-d8	98	11.473	11.473	(0.878)	1708241	10.1091	10.1
$ 7	Bromofluorobenzene	174	14.329	14.329	(0.915)	432016	10.9524	11.0
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	4.081	4.081	(0.420)	36975	0.81986	0.820
12	Bromomethane	94	Compound Not Detected.					
13	Chloroethane	64	4.854	4.854	(0.500)	4488	0.18413	0.184(aQ)
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	6.490	6.490	(0.668)	31712	0.15803	0.158(a)
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	7.145	7.145	(0.735)	122285	2.15460	2.15
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

10/26/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.379	8.379	(0.862)	1466278	23.1445	23.1
35	2-Butanone	43	8.350	8.350	(0.859)	14762	1.44436	~~1.44(aQ)~~
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.718	9.421	(1.000)	30594	0.37169	~~0.372(a)~~
45	Trichloroethene	95	10.149	10.149	(1.044)	16345	0.25082	0.251(a)
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	12.172	12.172	(0.932)	13382	0.21179	0.212(a)
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	19.148	19.148	(1.222)	1722	1.09561	~~1.10~~
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

Client ID: T-52-GW26

Instrument: MSK.i

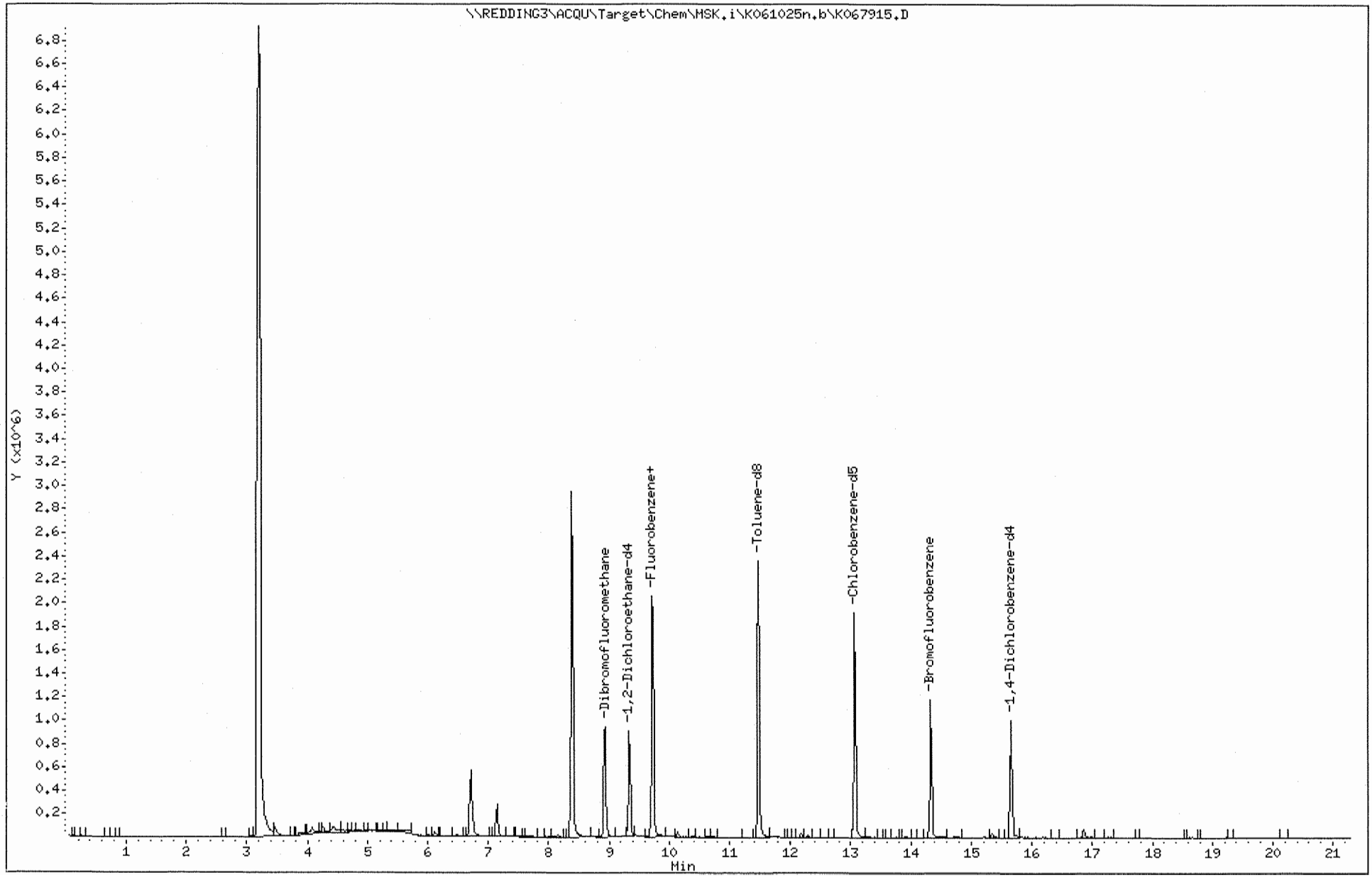
Sample Info: D0601625-004

Purge Volume: 10.0

Operator: X

Column phase: DB-624

Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

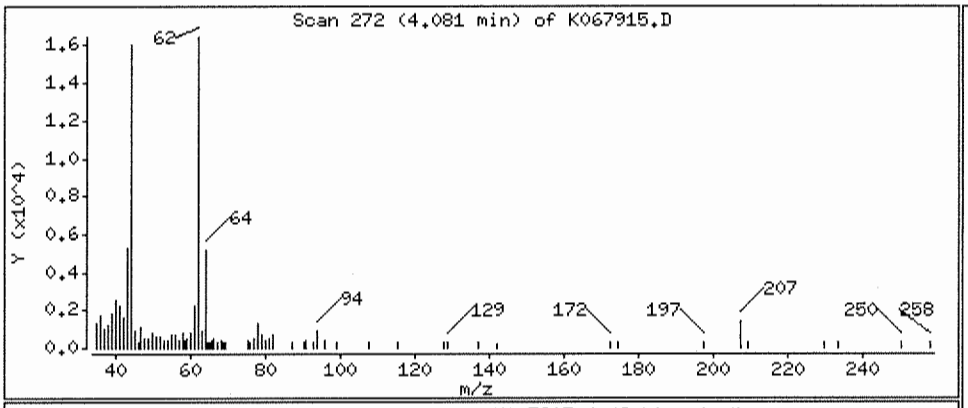
Client ID: T-52-GW26 Instrument: MSK.i

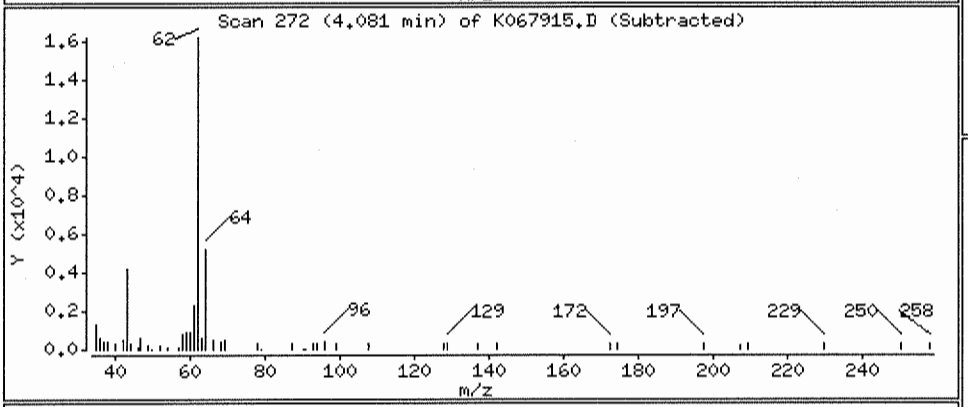
Sample Info: D0601625-004

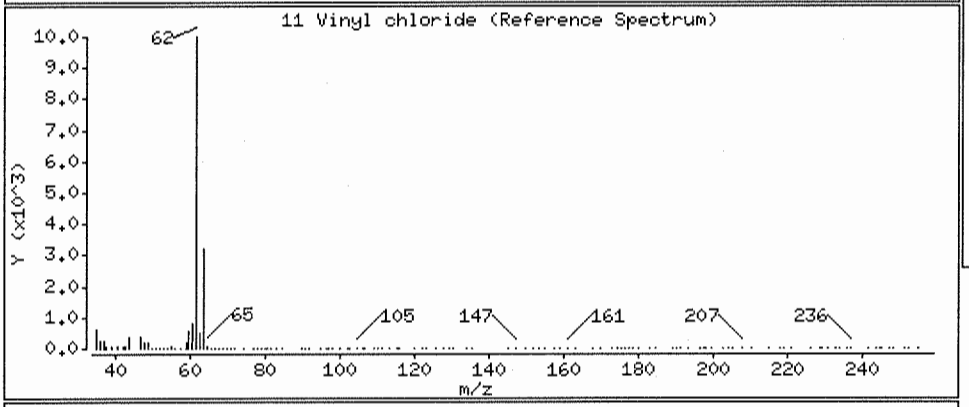
Purge Volume: 10.0 Operator: X

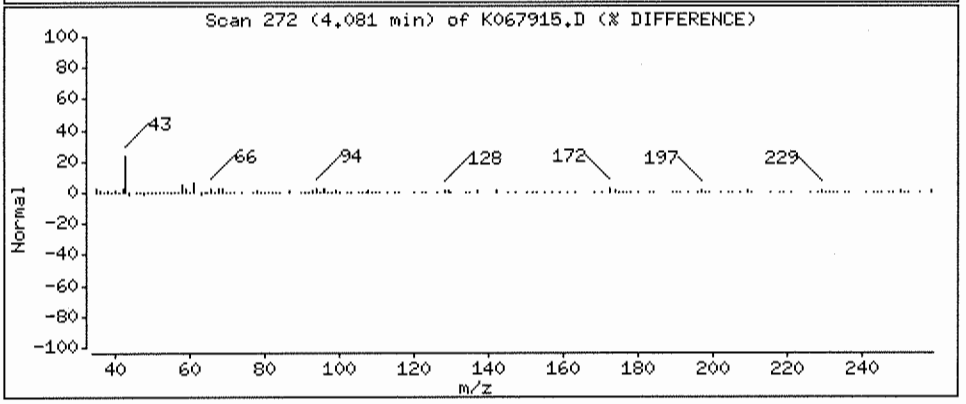
Column phase: DB-624 Column diameter: 0.32

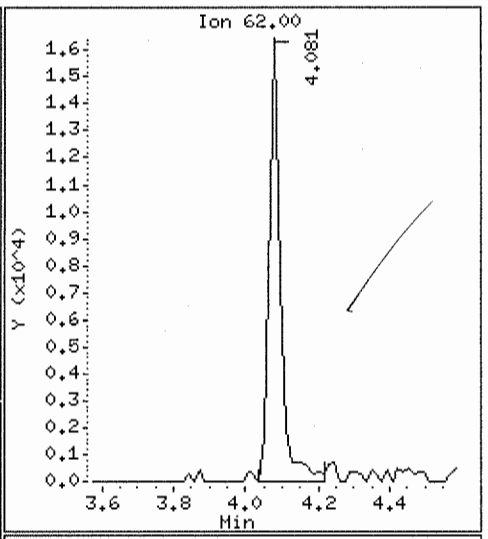
11 Vinyl chloride Concentration: 0.820 ug/L

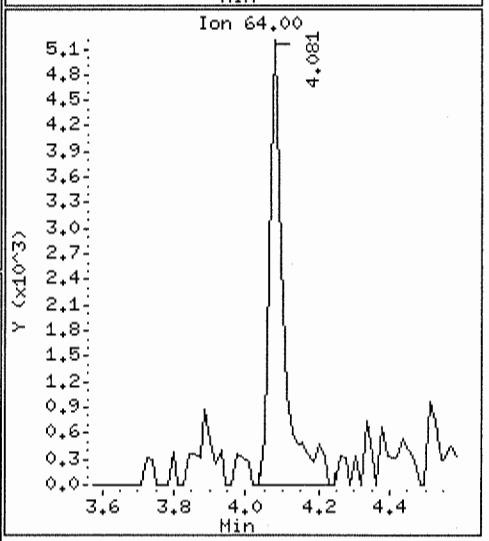












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

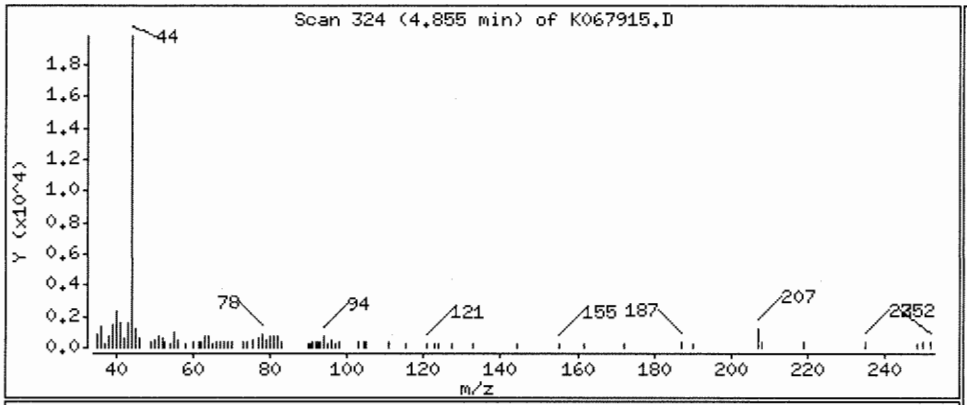
Client ID: T-52-GW26 Instrument: MSK.i

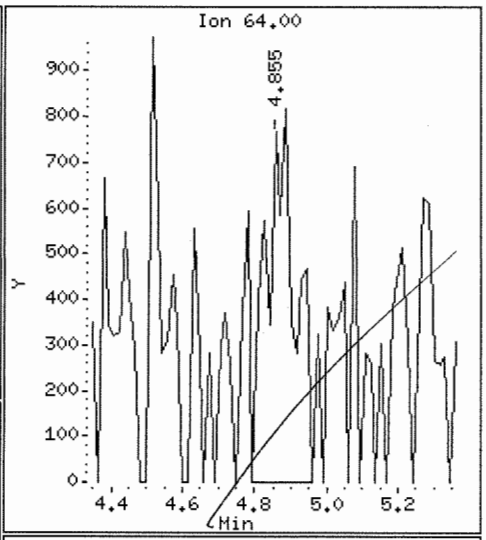
Sample Info: D0601625-004

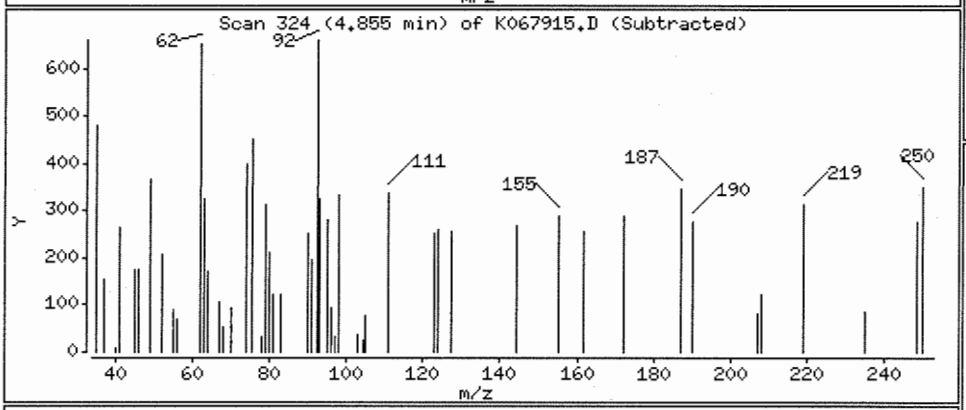
Purge Volume: 10.0 Operator: X

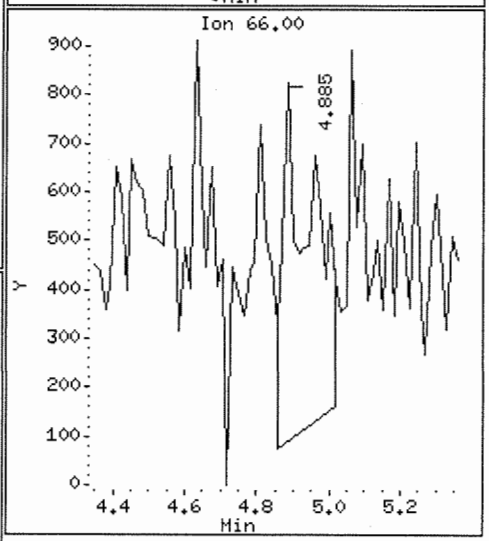
Column phase: DB-624 Column diameter: 0.32

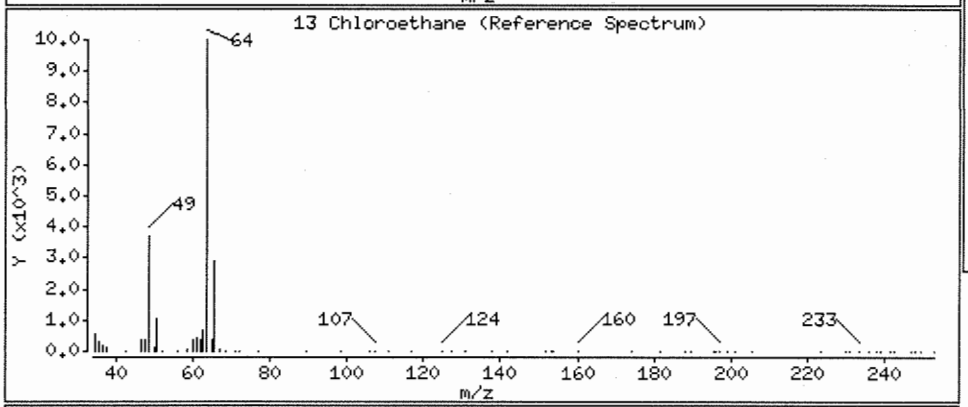
13 Chloroethane Concentration: 0.184 ug/L

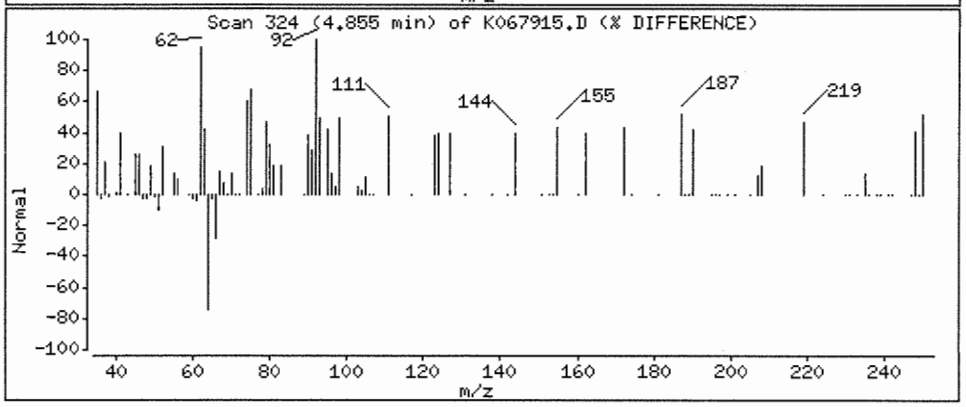












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

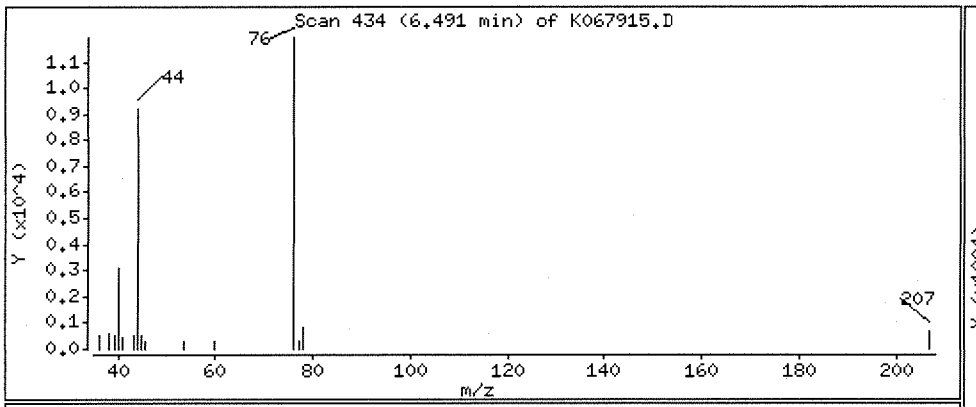
Client ID: T-52-GW26 Instrument: MSK.i

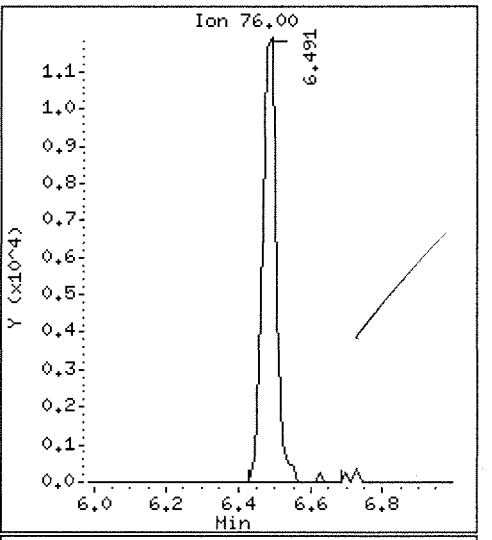
Sample Info: D0601625-004

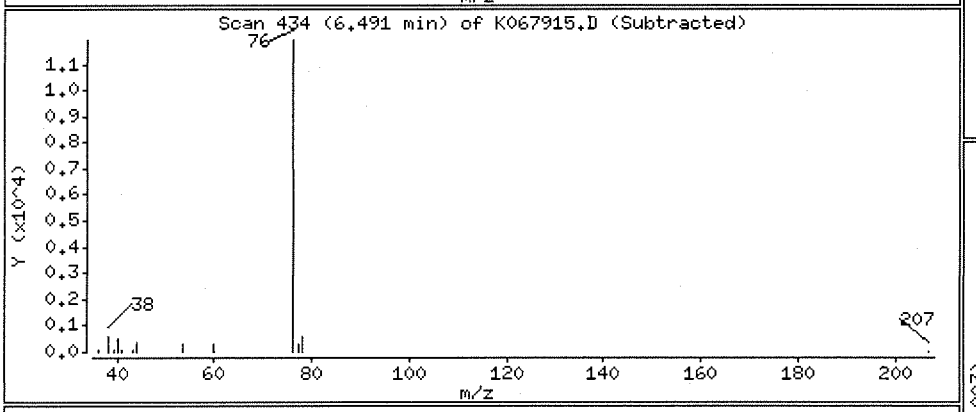
Purge Volume: 10.0 Operator: X

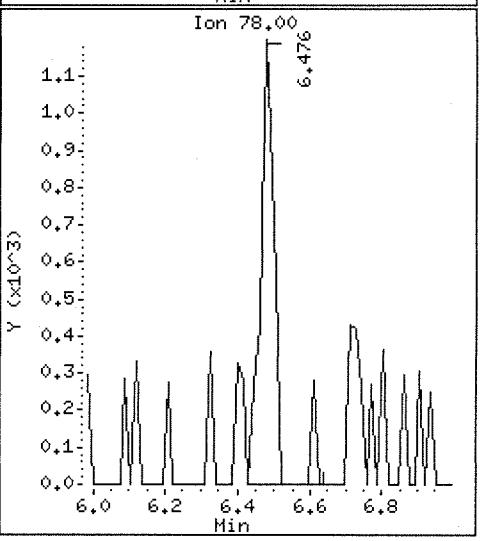
Column phase: DB-624 Column diameter: 0.32

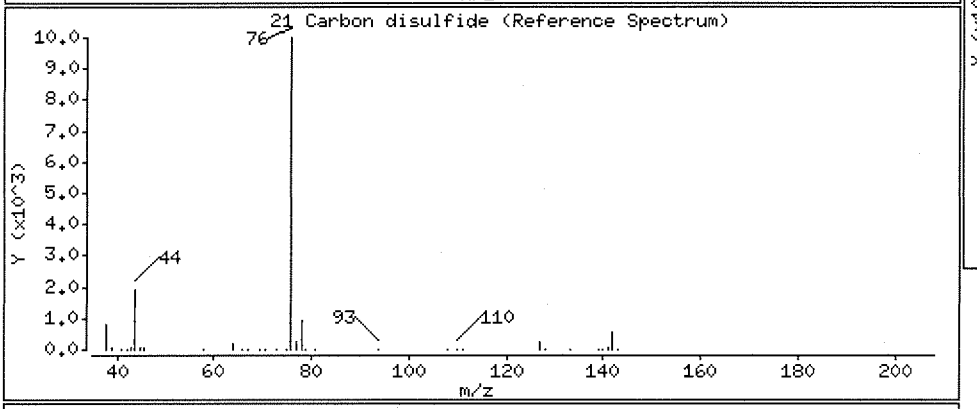
21 Carbon disulfide Concentration: 0.158 ug/L

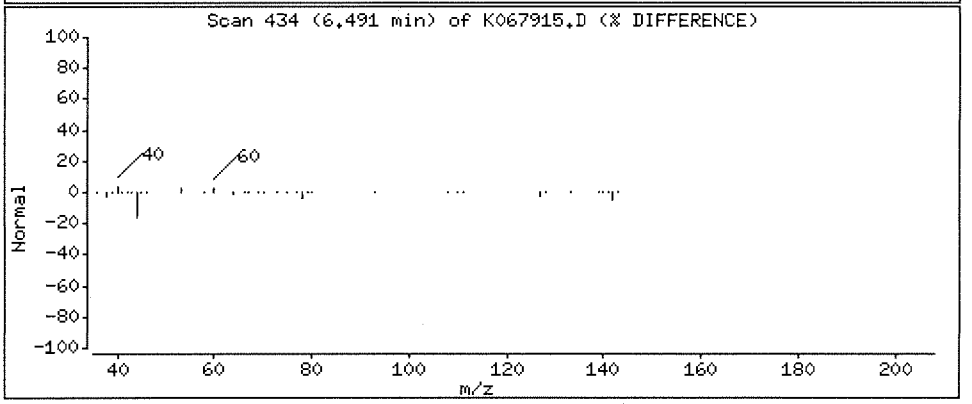












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

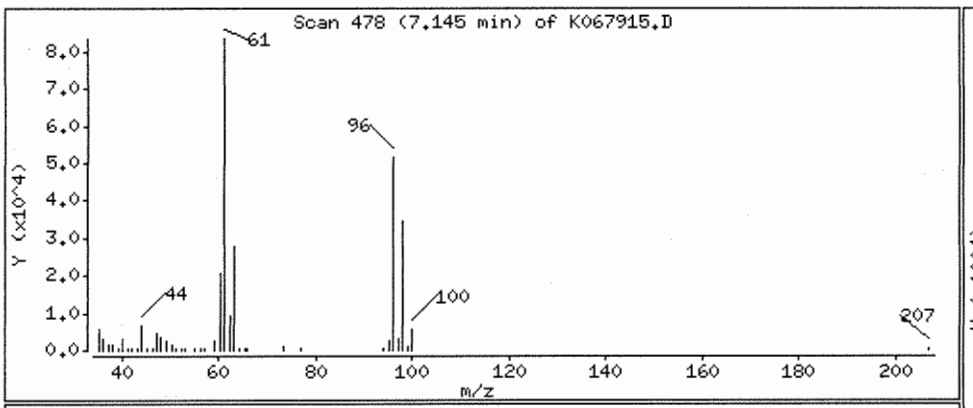
Client ID: T-52-GW26 Instrument: MSK.i

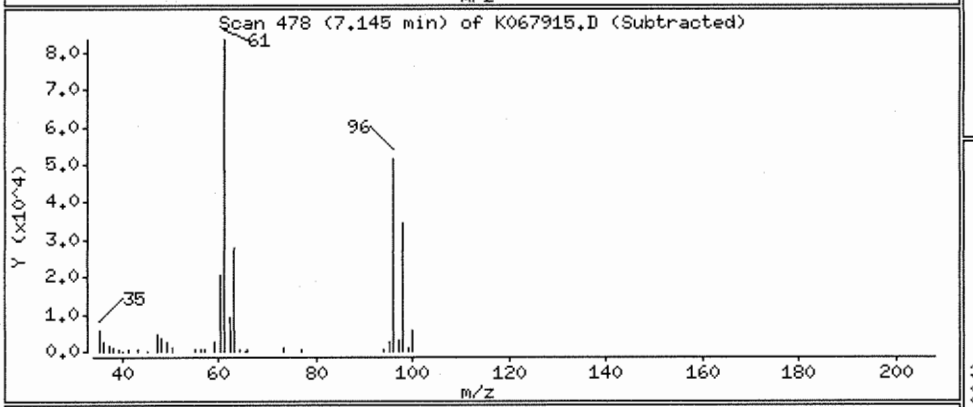
Sample Info: D0601625-004

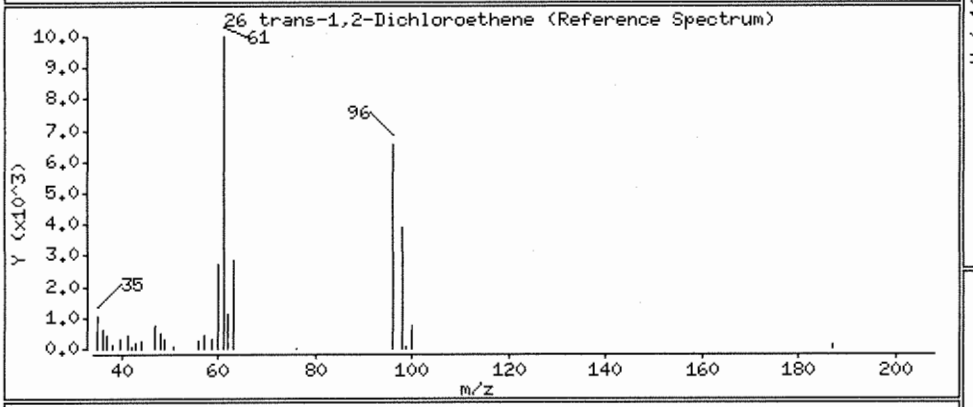
Purge Volume: 10.0 Operator: X

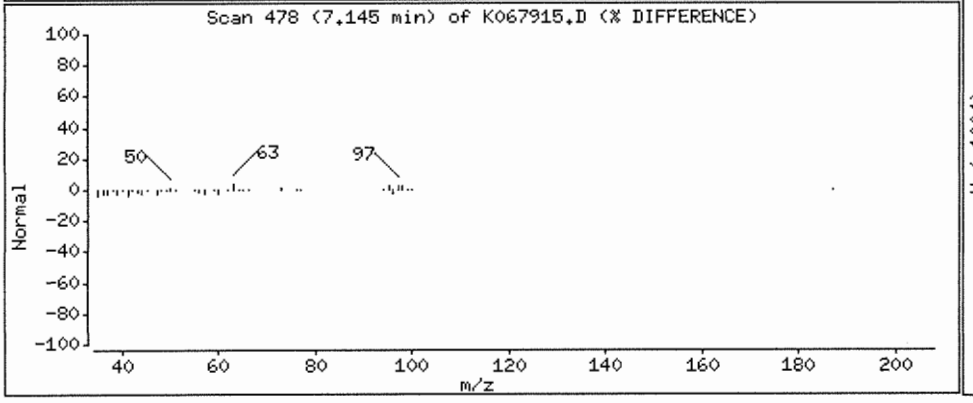
Column phase: DB-624 Column diameter: 0.32

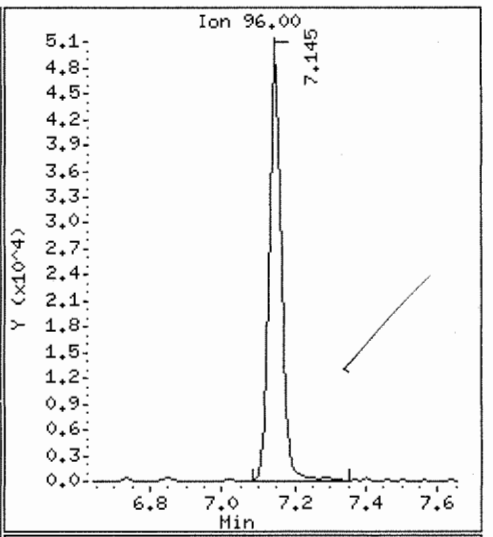
26 trans-1,2-Dichloroethene Concentration: 2.15 ug/L

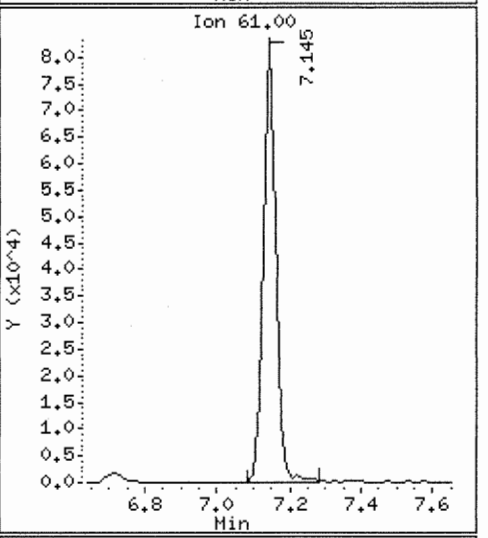


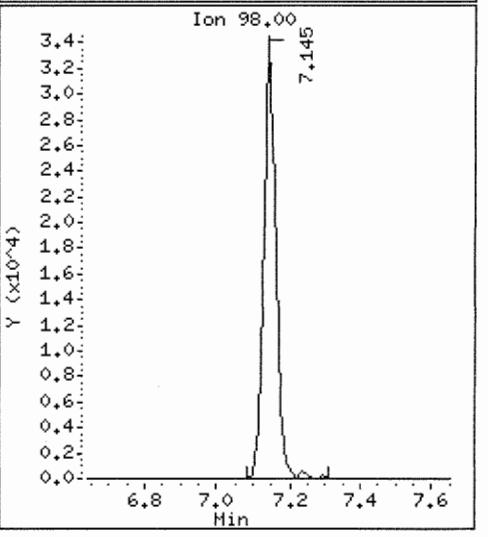












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

Client ID: T-52-GW26

Instrument: MSK.i

Sample Info: D0601625-004

Purge Volume: 10.0

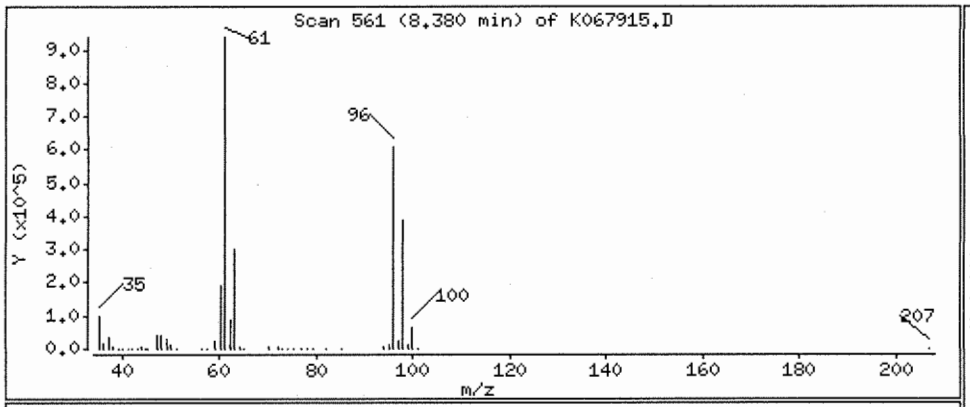
Operator: X

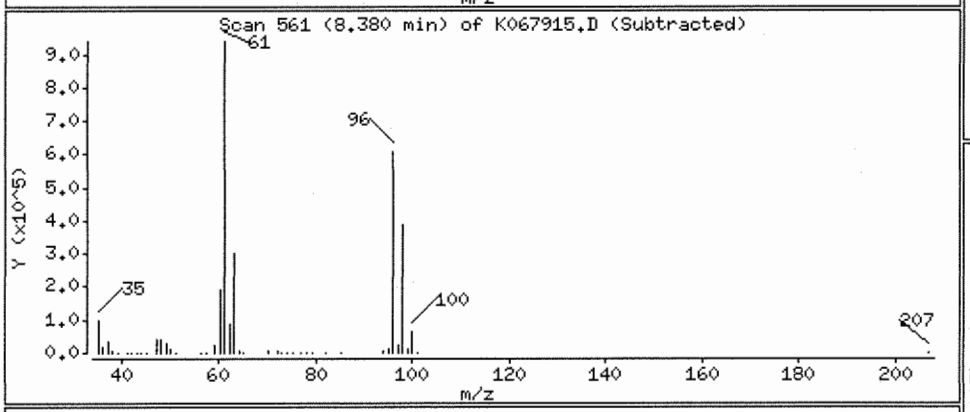
Column phase: DB-624

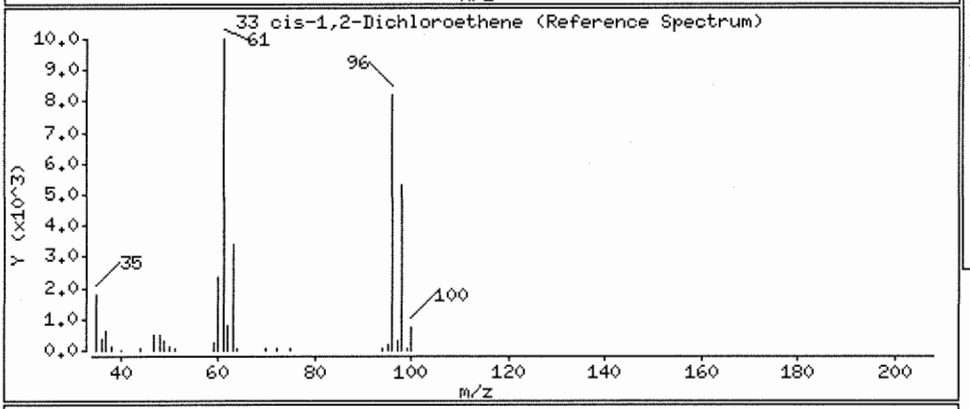
Column diameter: 0.32

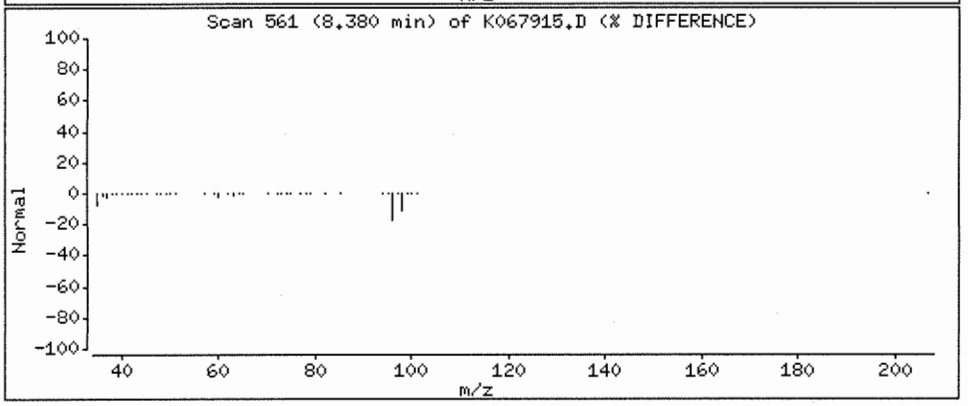
33 cis-1,2-Dichloroethene

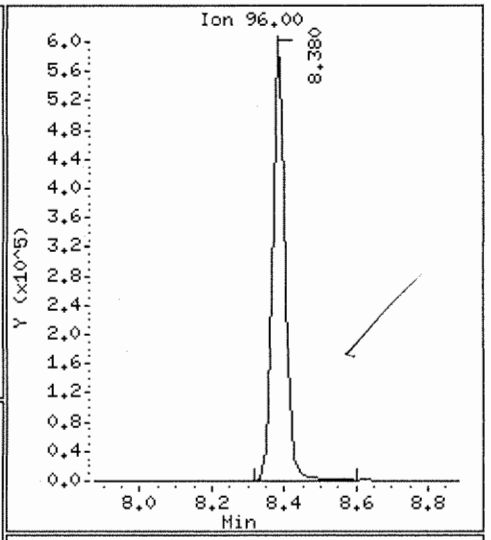
Concentration: 23.1 ug/L

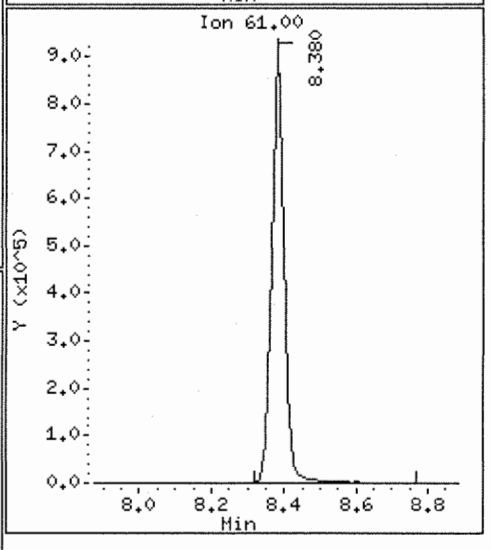












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

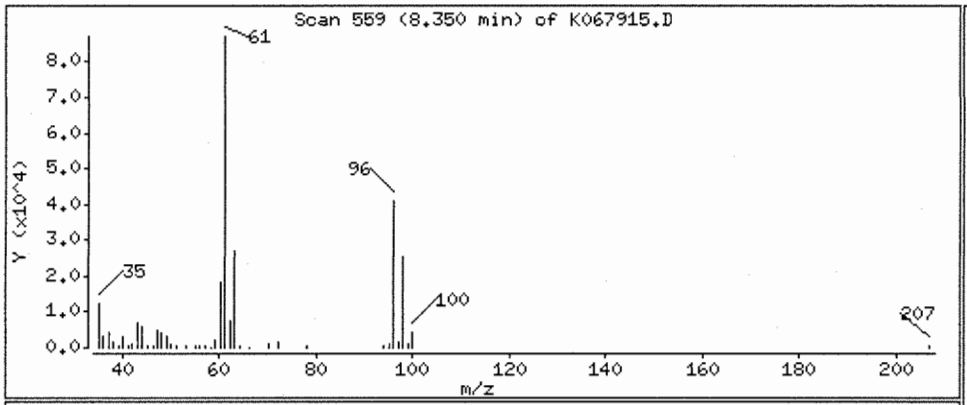
Client ID: T-52-GW26 Instrument: MSK.i

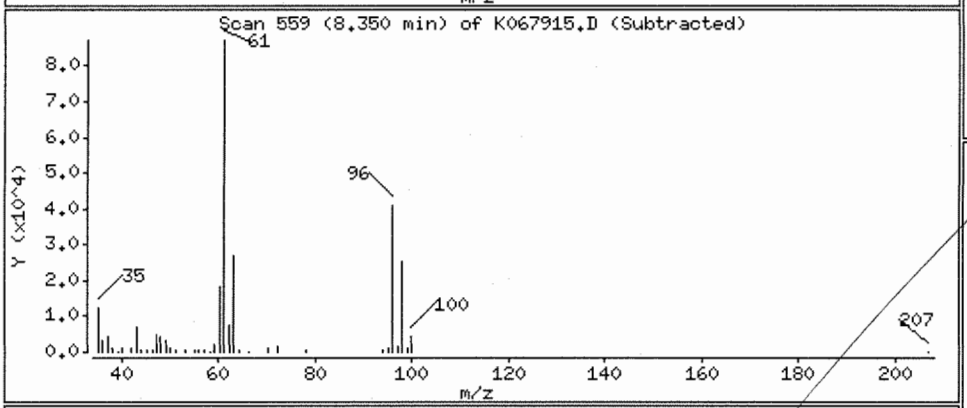
Sample Info: D0601625-004

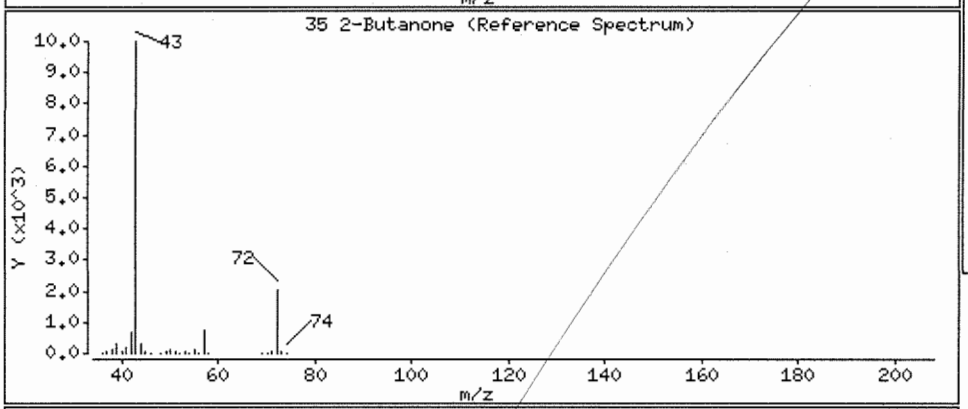
Purge Volume: 10.0 Operator: X

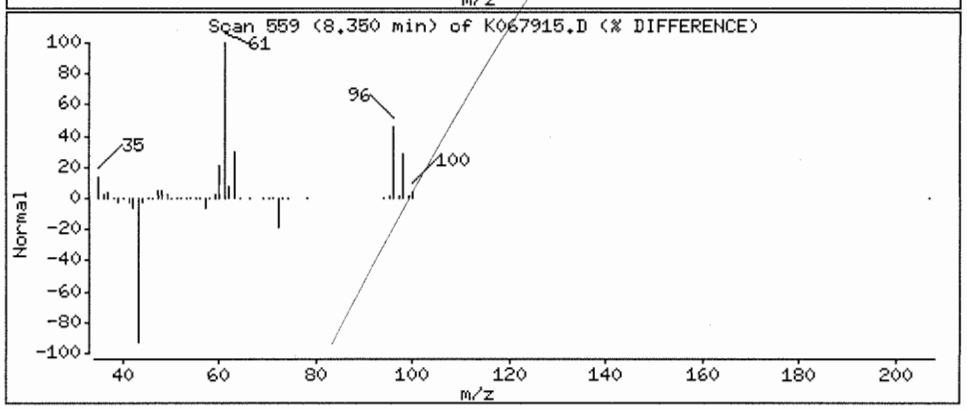
Column phase: DB-624 Column diameter: 0.32

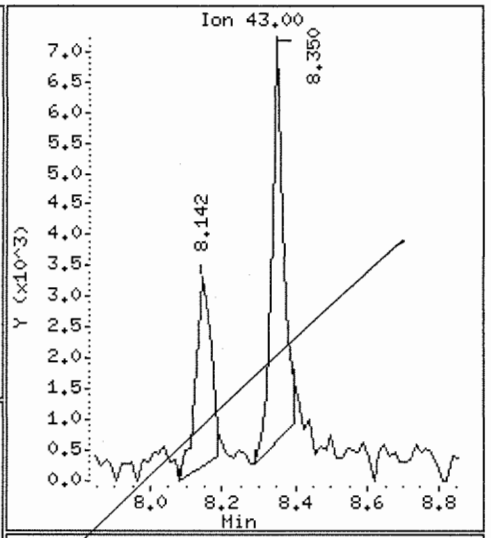
35 2-Butanone Concentration: 1.44 ug/L

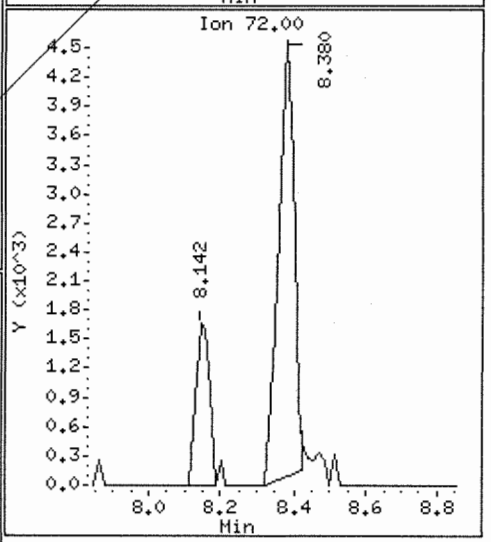












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

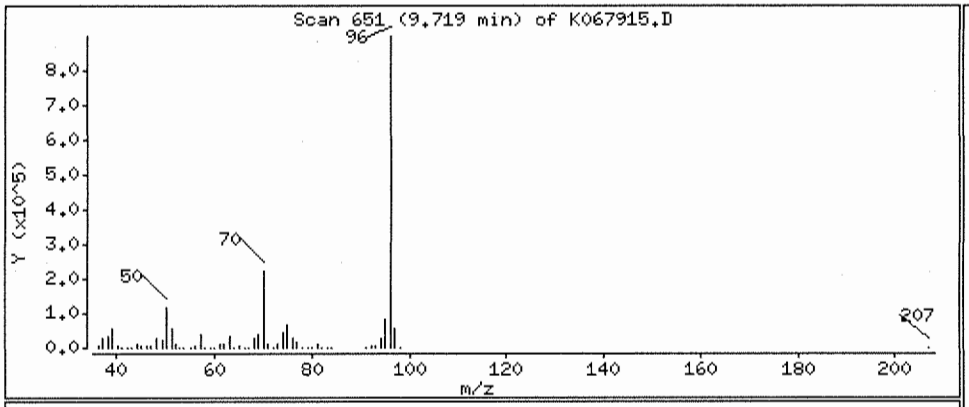
Client ID: T-52-GW26 Instrument: MSK.i

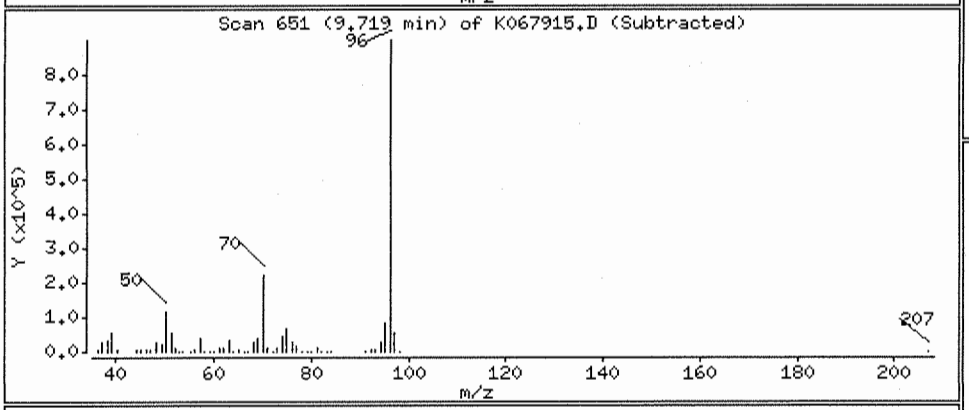
Sample Info: D0601625-004

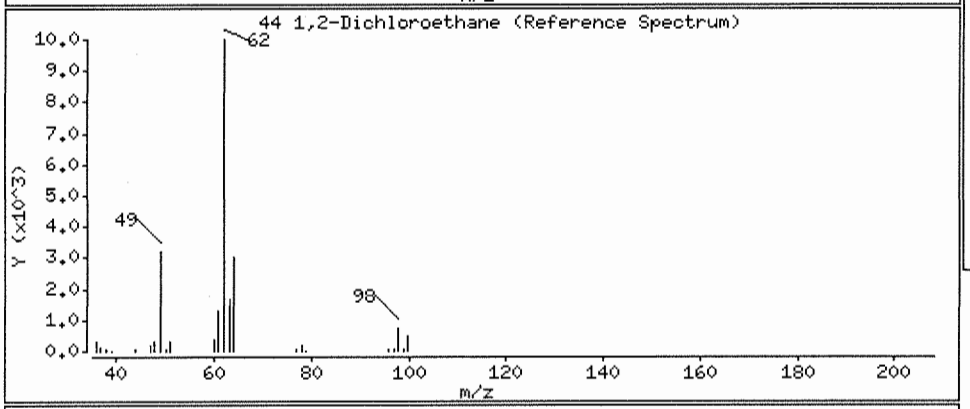
Purge Volume: 10.0 Operator: X

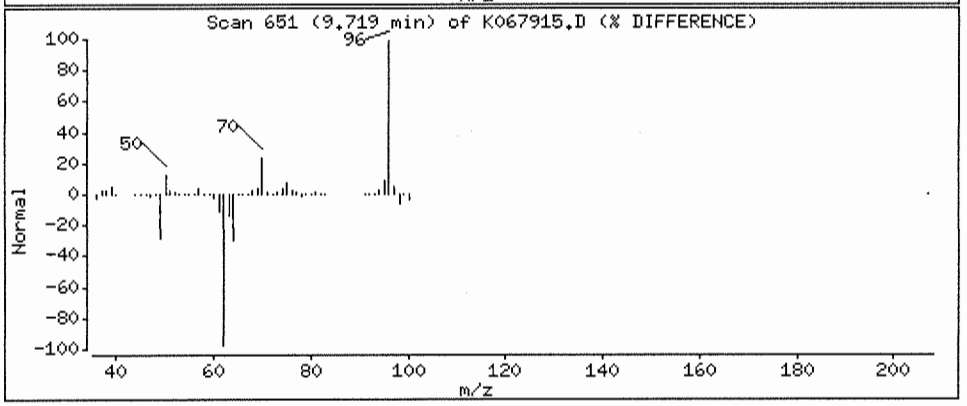
Column phase: DB-624 Column diameter: 0.32

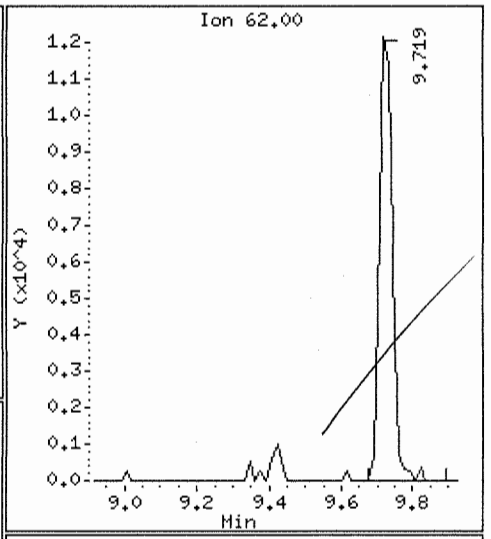
44 1,2-Dichloroethane Concentration: 0.372 ug/L

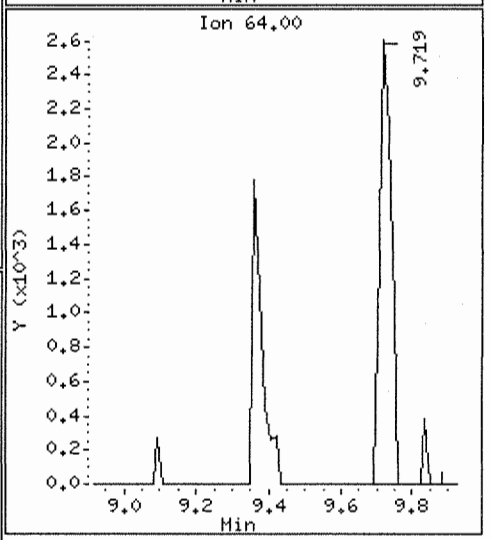












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

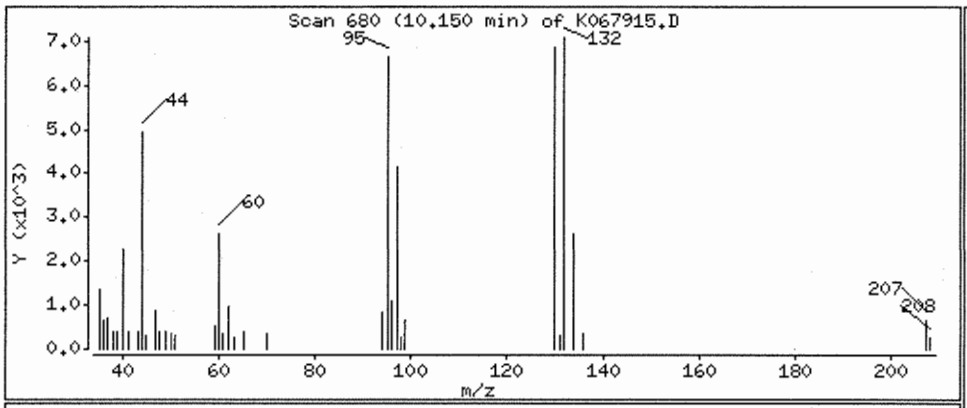
Client ID: T-52-GW26 Instrument: MSK.i

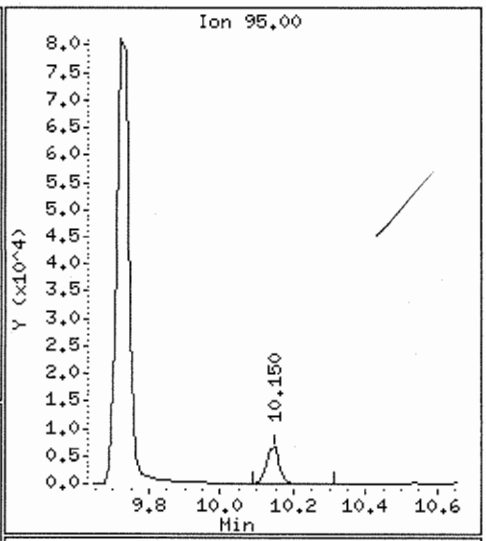
Sample Info: D0601625-004

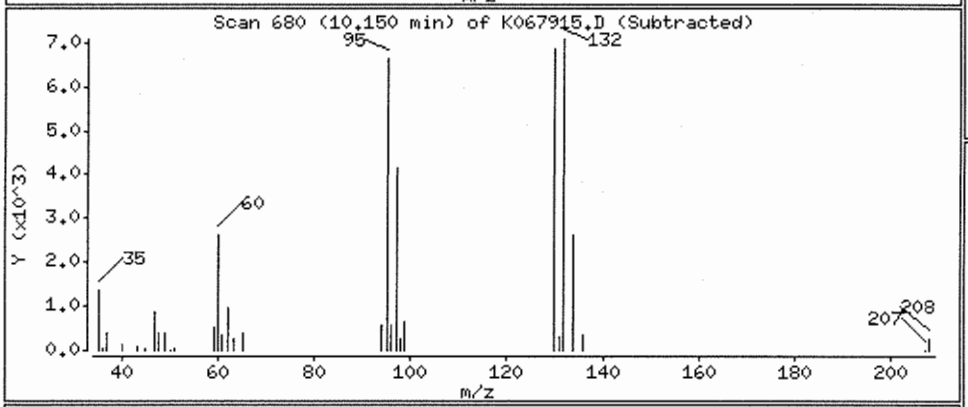
Purge Volume: 10.0 Operator: X

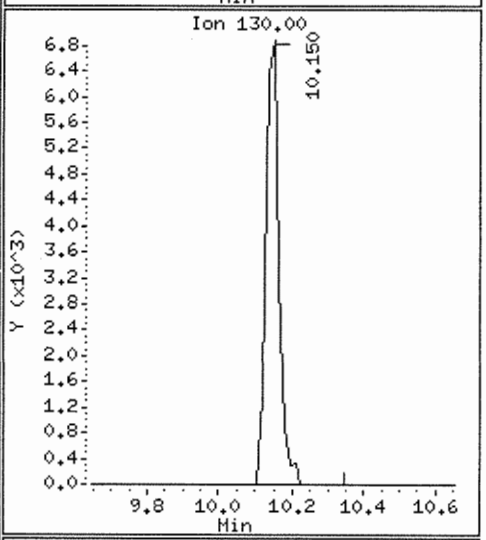
Column phase: DB-624 Column diameter: 0.32

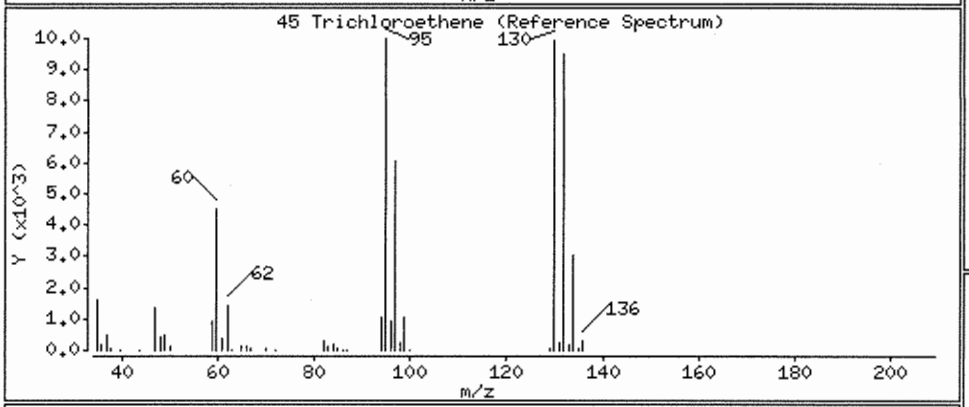
45 Trichloroethene Concentration: 0.251 ug/L

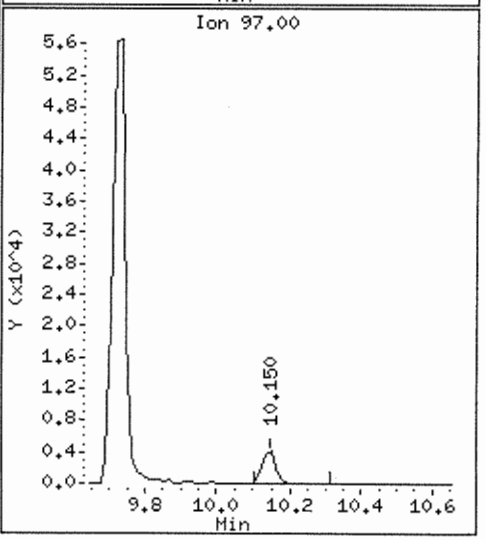


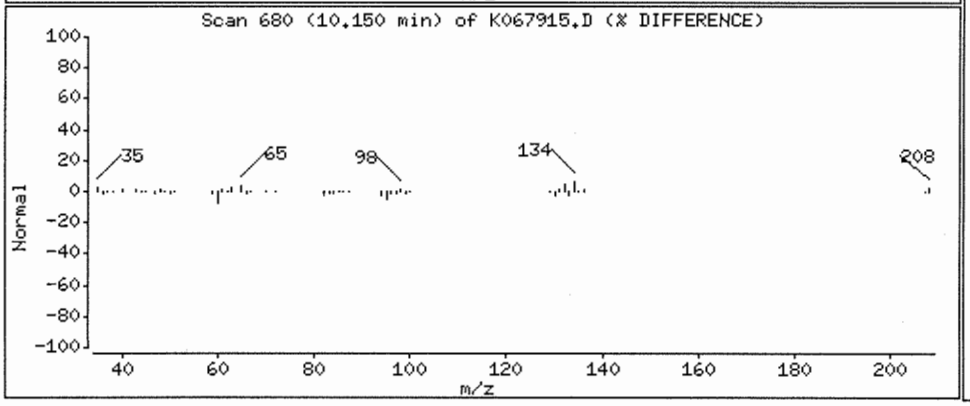












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

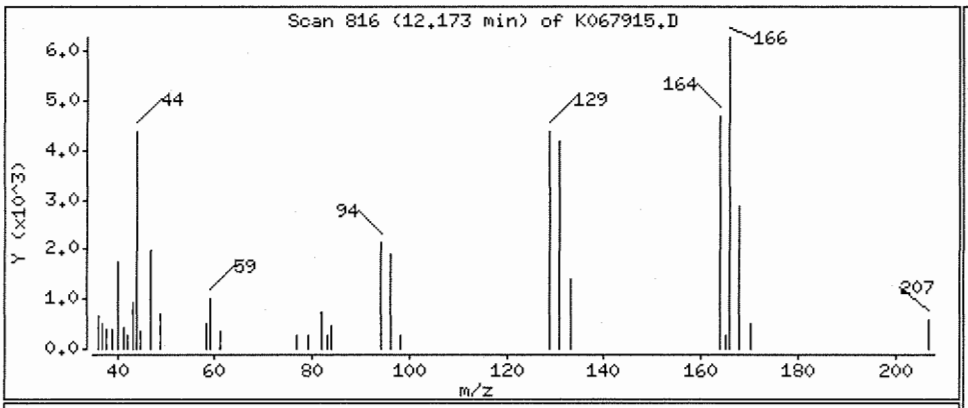
Client ID: T-52-GW26 Instrument: MSK.i

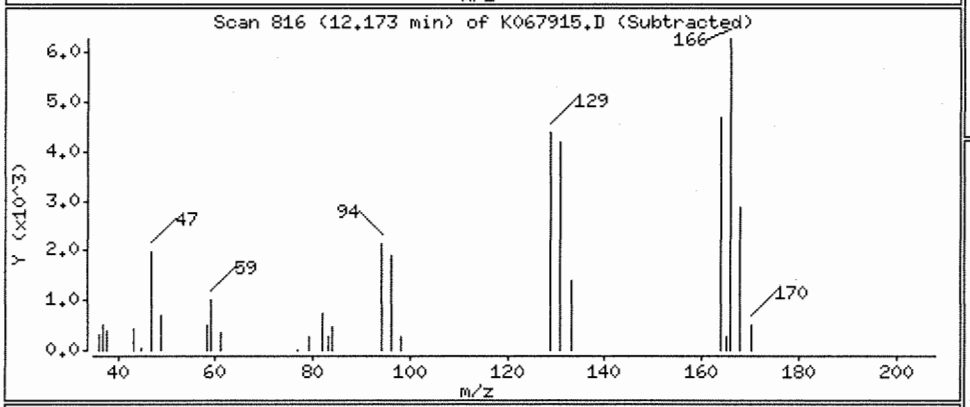
Sample Info: D0601625-004

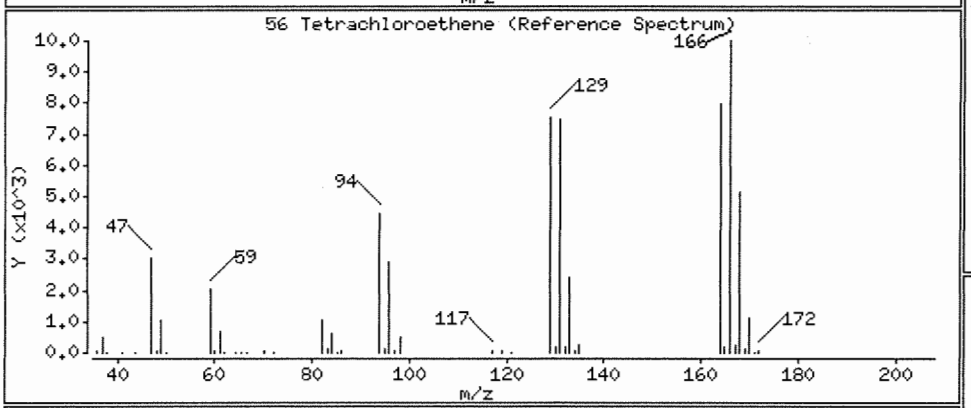
Purge Volume: 10.0 Operator: X

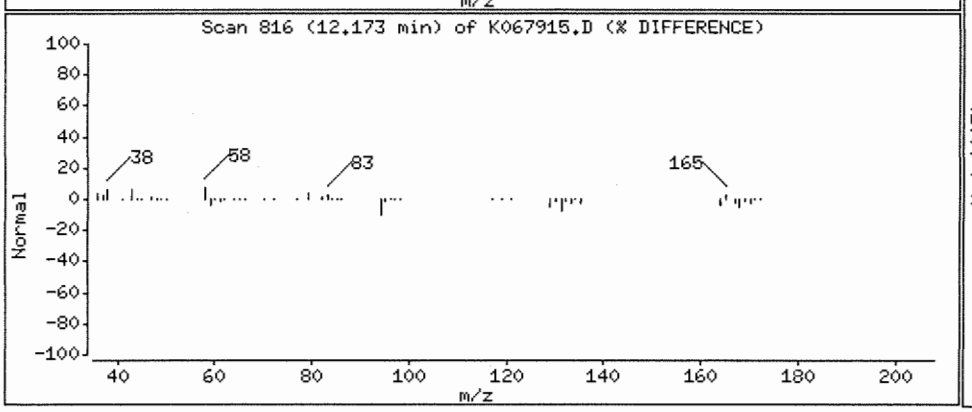
Column phase: DB-624 Column diameter: 0.32

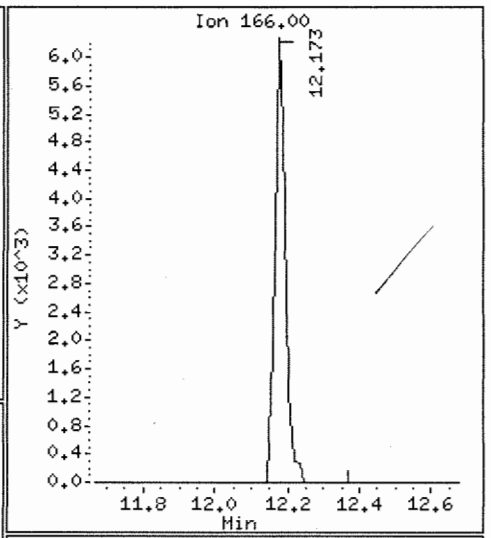
56 Tetrachloroethene Concentration: 0.212 ug/L

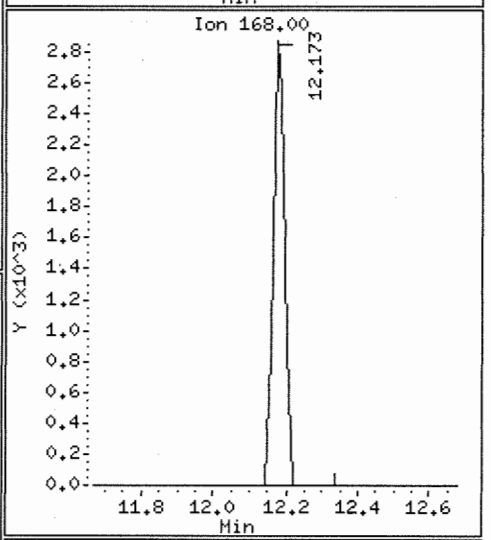


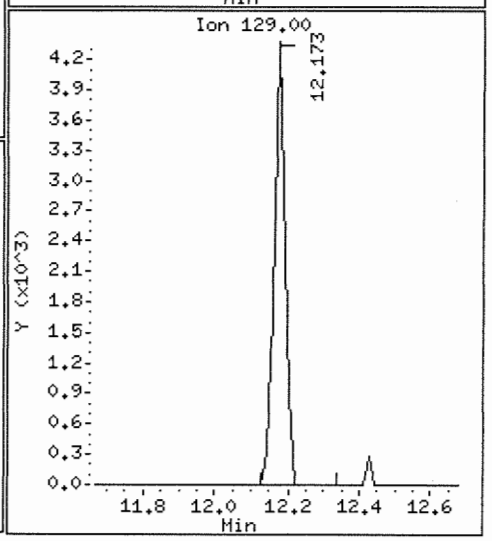












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067915.D

Date : 26-OCT-2006 04:46

Client ID: T-52-GW26

Instrument: MSK.i

Sample Info: D0601625-004

Purge Volume: 10.0

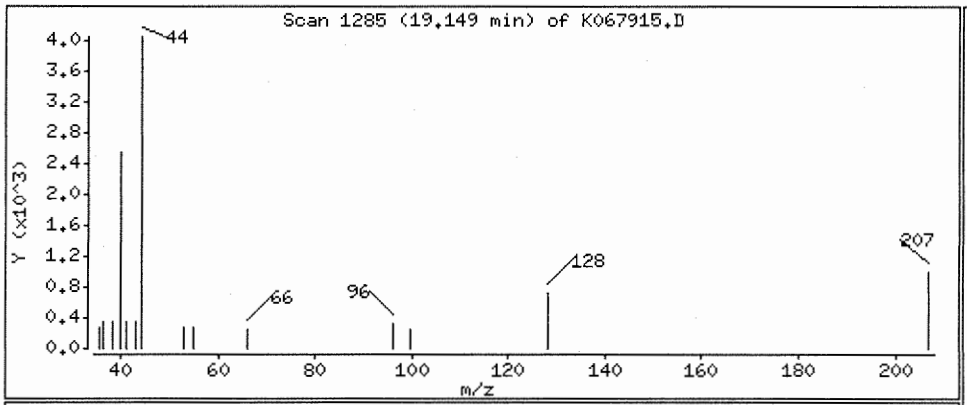
Operator: X

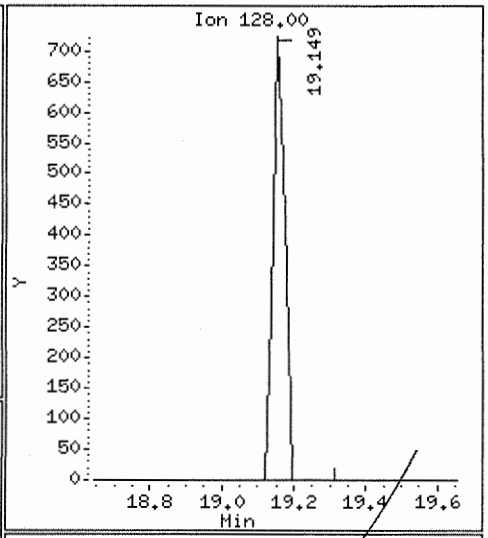
Column phase: DB-624

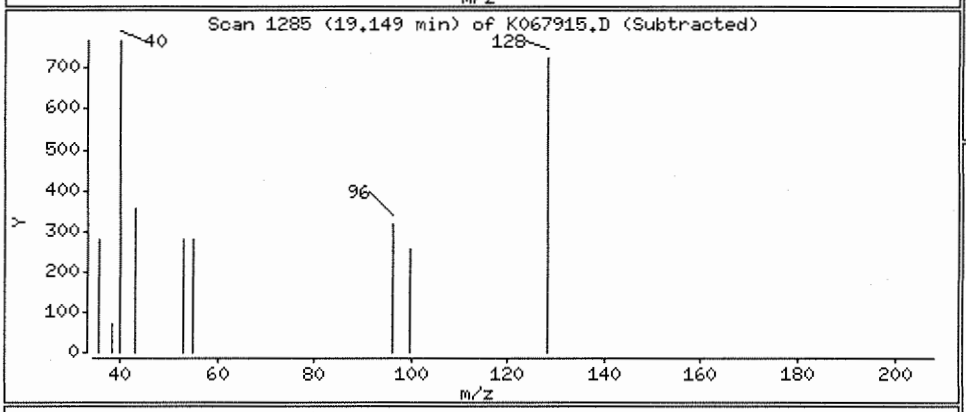
Column diameter: 0.32

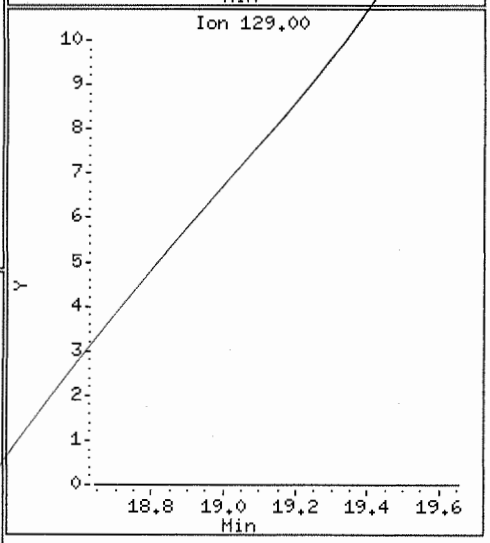
92 Naphthalene

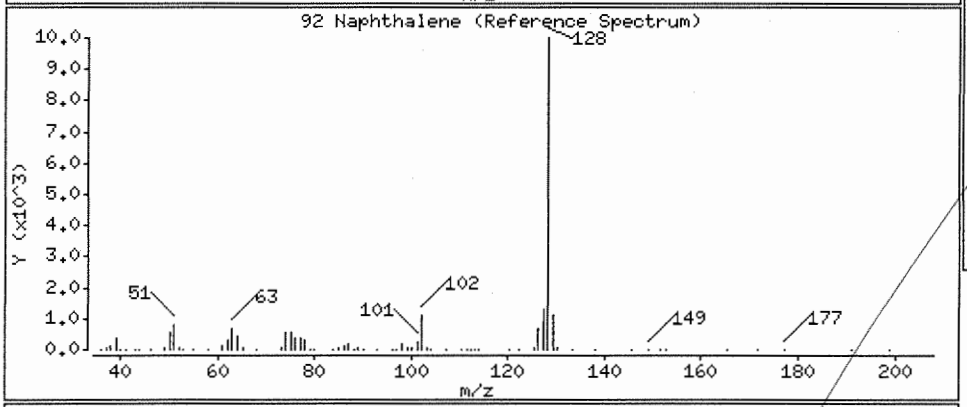
Concentration: 1.10 ug/L

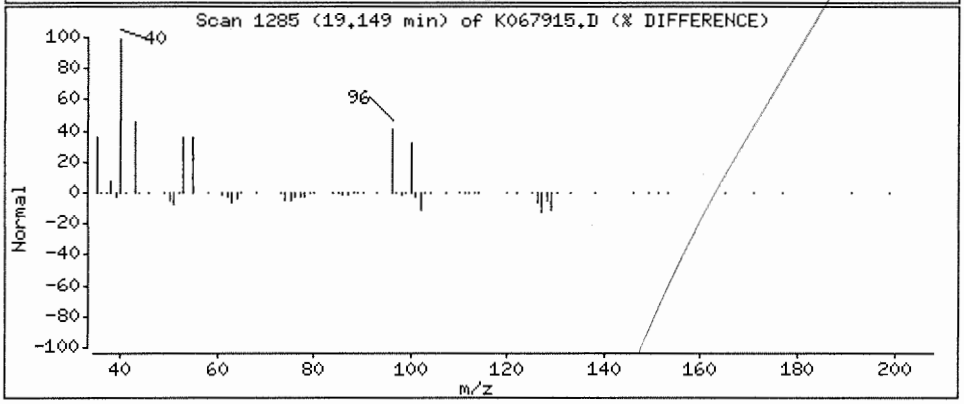












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-52-GW37
Lab Code: D0601625-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloromethane	**0.26**	J	0.24	1.0	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromomethane	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloroethane	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Acetone	**31**		0.91	10	1	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	**1.7**	J	0.14	2.0	1	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	ND	U	0.24	10	1	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	**4.1**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	**4.8**	J	0.66	10	1	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	ND	U	0.17	0.50	1	10/26/2006	10/26/2006	K1025W02	
Chloroform	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
Benzene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	**0.73**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	10/26/2006	10/26/2006	K1025W02	
Toluene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	**0.54**		0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	ND	U	0.49	10	1	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	ND	U	0.12	1.0	1	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-52-GW37
Lab Code: D0601625-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	10/26/2006	10/26/2006	K1025W02	
Ethylbenzene	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	ND	U	0.10	1.5	1	10/26/2006	10/26/2006	K1025W02	
Styrene	ND	U	0.070	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromoform	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	ND	U	0.13	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	10/26/2006	10/26/2006	K1025W02	
Naphthalene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	117	79-135	10/26/2006	
4-Bromofluorobenzene - SS	106	82-124	10/26/2006	
Dibromofluoromethane - SS	115	84-127	10/26/2006	
Toluene-d8 - SS	99	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D
Lab Smp Id: D0601625-005 Client Smp ID: T-52-GW37
Inj Date : 26-OCT-2006 07:26
Operator : X Inst ID: MSK.i
Smp Info : D0601625-005
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

10/27/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.714	9.733	(1.000)	2417105	10.0000	
* 2	Chlorobenzene-d5	117	13.061	13.065	(1.000)	1323486	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.663	15.668	(1.000)	404777	10.0000	
$ 4	Dibromofluoromethane	113	8.926	8.930	(0.919)	806480	11.4794	11.5
$ 5	1,2-Dichloroethane-d4	65	9.327	9.331	(0.960)	842228	11.7231	11.7
$ 6	Toluene-d8	98	11.469	11.473	(0.878)	1713031	9.94339	9.94
$ 7	Bromofluorobenzene	174	14.325	14.329	(0.915)	427656	10.5742	10.6
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	3.868	3.873	(0.398)	10260	0.26228	0.262(a)
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	4.657	4.691	(0.479)	3710	0.09872	~~0.0987(aQ)~~
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.114	6.119	(0.629)	434986	31.2885	31.3
21	Carbon disulfide	76	6.486	6.490	(0.668)	367115	1.73236	1.73(a)
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	8.137	7.680	(0.838)	89803	0.40259	~~0.402(a)~~
32	2,2-Dichloropropane	77	Compound Not Detected.					

10/26/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	33 cis-1,2-Dichloroethene	96	8.375	8.379	(0.862)	272066	4.06644	4.07
	35 2-Butanone	43	8.345	8.350	(0.859)	92037	4.81713	4.82(a)
	36 Bromochloromethane	128	Compound Not Detected.					
	37 Chloroform	83	Compound Not Detected.					
	38 1,1,1-Trichloroethane	97	Compound Not Detected.					
	40 1,1-Dichloropropene	75	Compound Not Detected.					
	41 Carbon tetrachloride	119	Compound Not Detected.					
	43 Benzene	78	Compound Not Detected.					
	44 1,2-Dichloroethane	62	9.714	9.421	(1.000)	33956	0.39064	0.391(a)
	45 Trichloroethene	95	10.130	10.149	(1.043)	50063	0.72744	0.727
	46 1,2-Dichloropropane	63	Compound Not Detected.					
	48 Dibromomethane	93	Compound Not Detected.					
	49 Bromodichloromethane	83	Compound Not Detected.					
	51 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	52 4-Methyl-2-pentanone	43	Compound Not Detected.					
	53 Toluene	92	Compound Not Detected.					
	54 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	55 1,1,2-Trichloroethane	83	Compound Not Detected.					
	56 Tetrachloroethene	166	12.168	12.172	(0.932)	34939	0.54237	0.542
	57 1,3-Dichloropropane	76	Compound Not Detected.					
	58 2-Hexanone	43	12.272	12.157	(0.940)	182331	6.16308	6.16(aQ)
	59 Dibromochloromethane	129	Compound Not Detected.					
	60 1,2-Dibromoethane	107	Compound Not Detected.					
	62 Chlorobenzene	112	Compound Not Detected.					
	63 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	64 Ethylbenzene	91	Compound Not Detected.					
	65 m-,p-Xylene	106	Compound Not Detected.					
	66 o-Xylene	106	Compound Not Detected.					
M	67 Xylene (total)	106	Compound Not Detected.					
	68 Styrene	104	Compound Not Detected.					
	69 Bromoform	173	Compound Not Detected.					
	70 Isopropylbenzene	105	Compound Not Detected.					
	71 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	72 Bromobenzene	156	Compound Not Detected.					
	73 1,2,3-Trichloropropane	110	Compound Not Detected.					
	74 n-Propylbenzene	120	Compound Not Detected.					
	76 2-Chlorotoluene	126	Compound Not Detected.					
	78 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	79 4-Chlorotoluene	126	Compound Not Detected.					
	80 tert-Butylbenzene	119	Compound Not Detected.					
	81 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	82 sec-Butylbenzene	105	Compound Not Detected.					
	83 1,3-Dichlorobenzene	146	Compound Not Detected.					
	84 p-Isopropyltoluene	119	Compound Not Detected.					
	85 1,4-Dichlorobenzene	146	Compound Not Detected.					
	87 n-Butylbenzene	91	Compound Not Detected.					
	88 1,2-Dichlorobenzene	146	Compound Not Detected.					
	89 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
	90 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	91 Hexachlorobutadiene	225	Compound Not Detected.					
	92 Naphthalene	128	19.144	19.148	(1.222)	1895	1.09744	1.10
	93 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

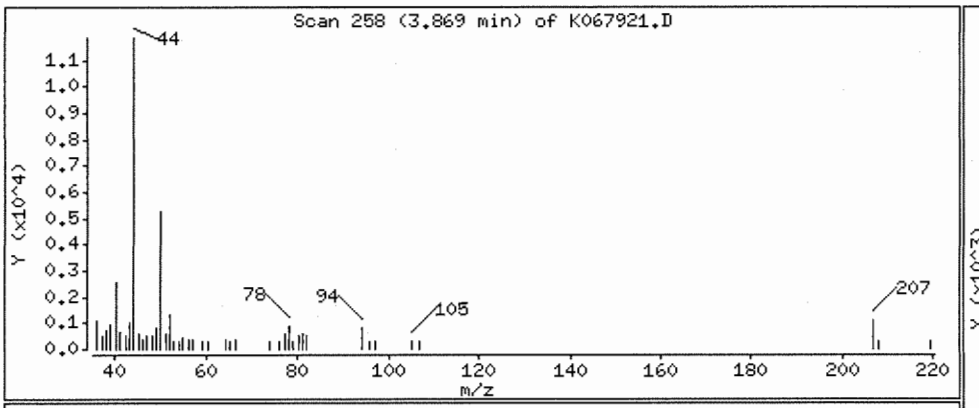
Client ID: T-52-GW37 Instrument: MSK.i

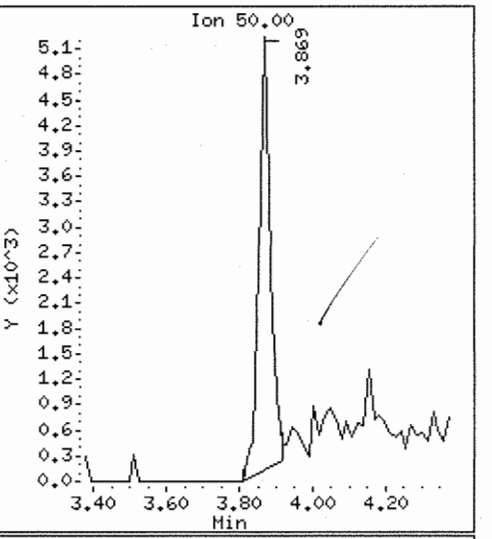
Sample Info: D0601625-005

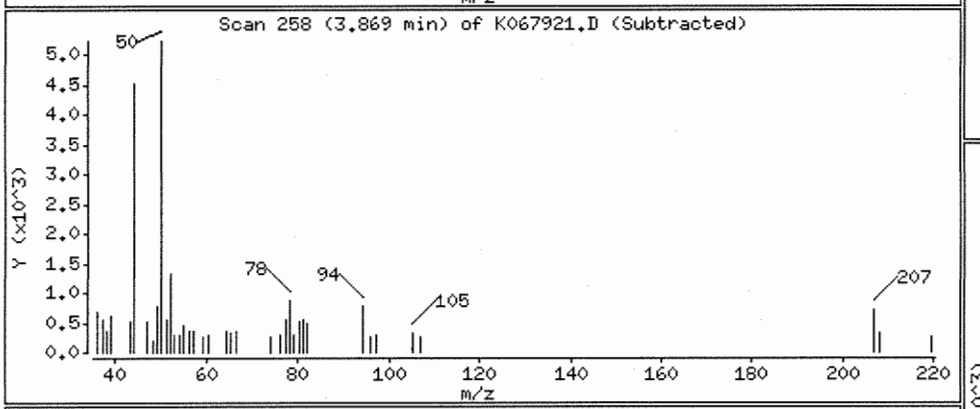
Purge Volume: 10.0 Operator: X

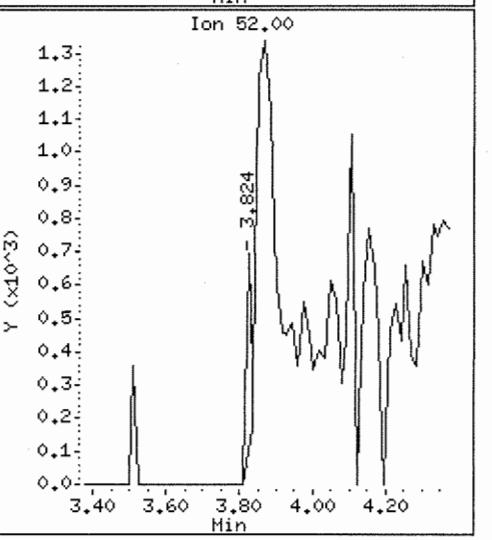
Column phase: DB-624 Column diameter: 0.32

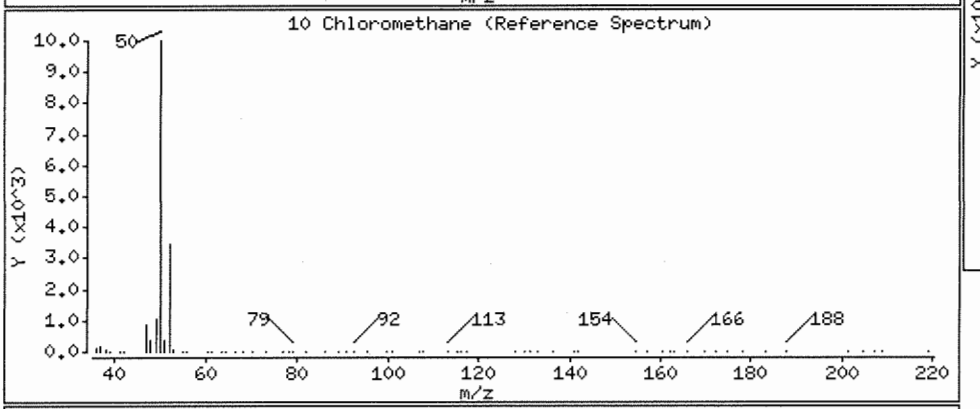
10 Chloromethane Concentration: 0.262 ug/L

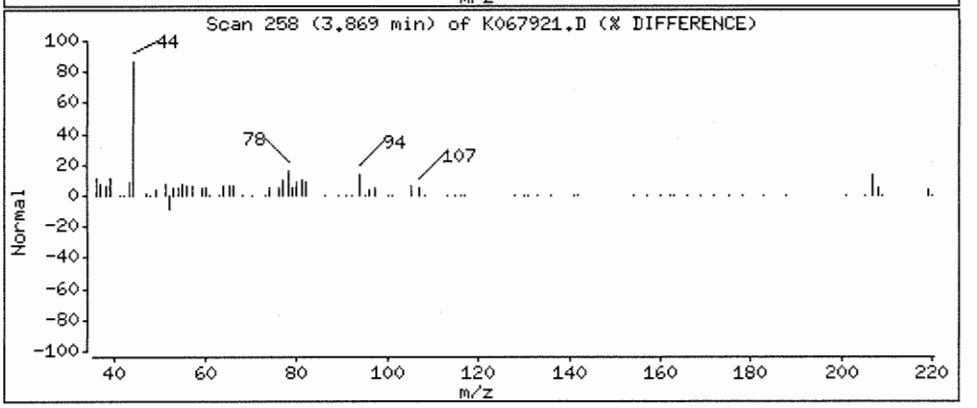












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

Client ID: T-52-GW37

Instrument: MSK.i

Sample Info: D0601625-005

Purge Volume: 10.0

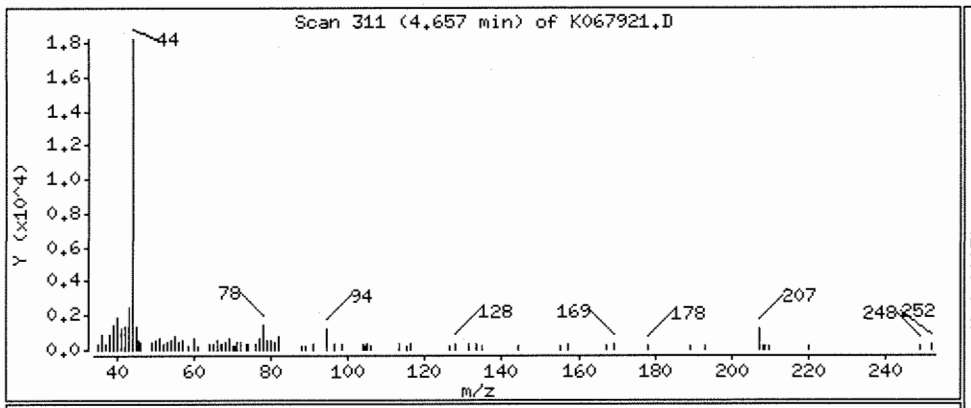
Operator: X

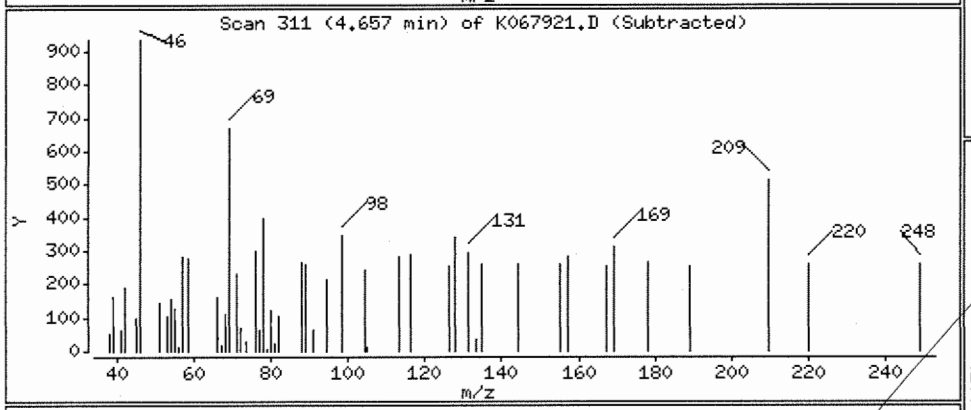
Column phase: DB-624

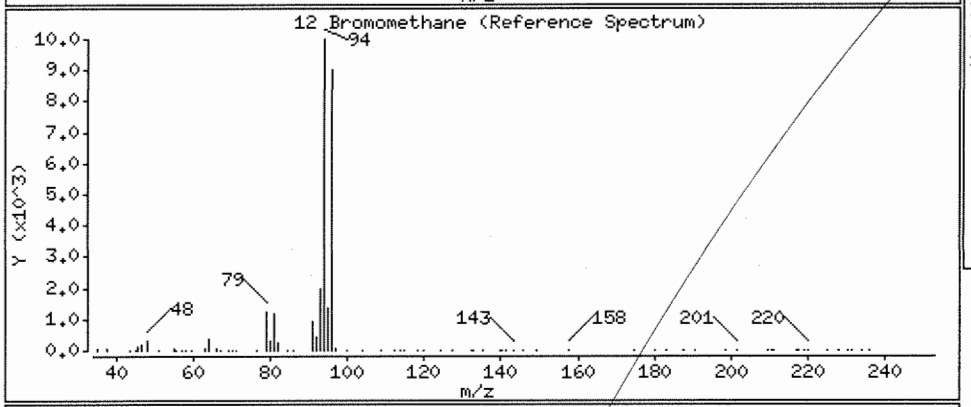
Column diameter: 0.32

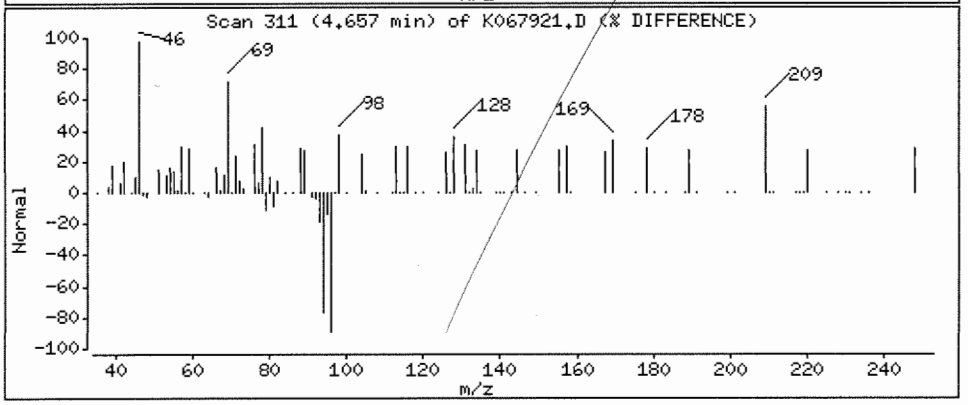
12 Bromomethane

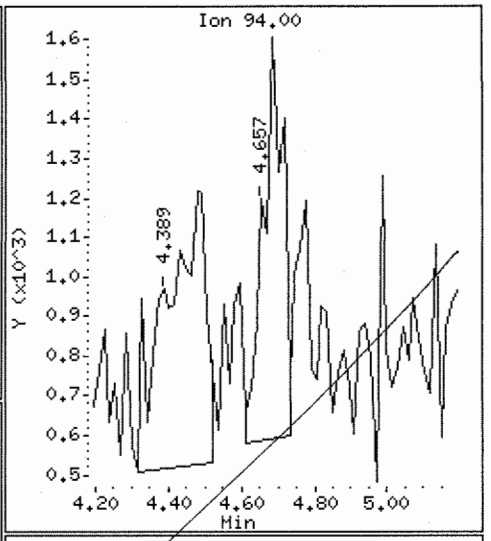
Concentration: 0.0987 ug/L

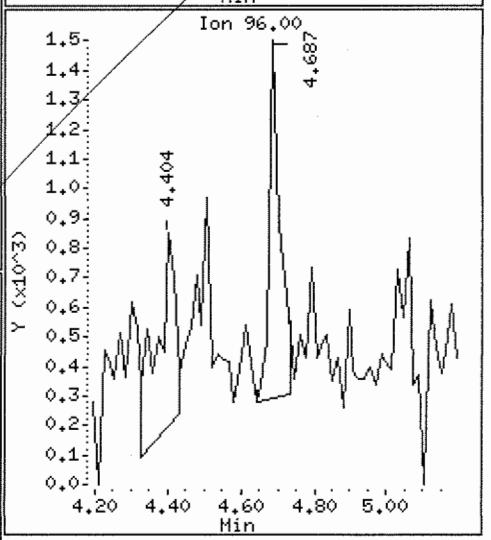












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

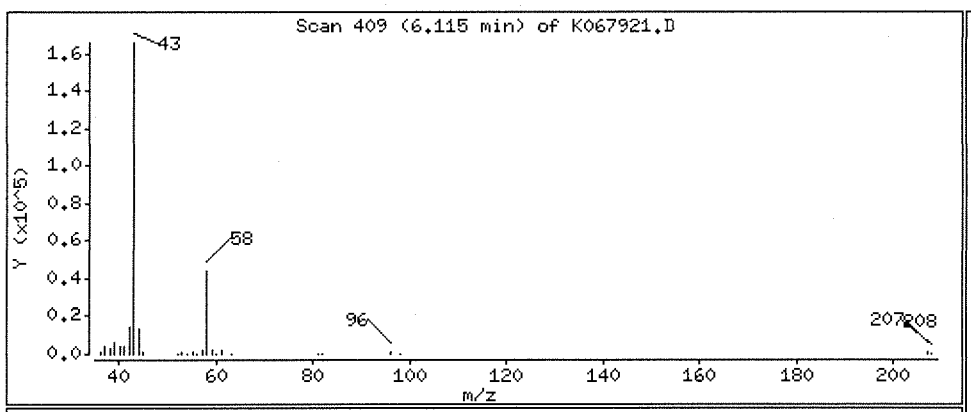
Client ID: T-52-GW37 Instrument: MSK.i

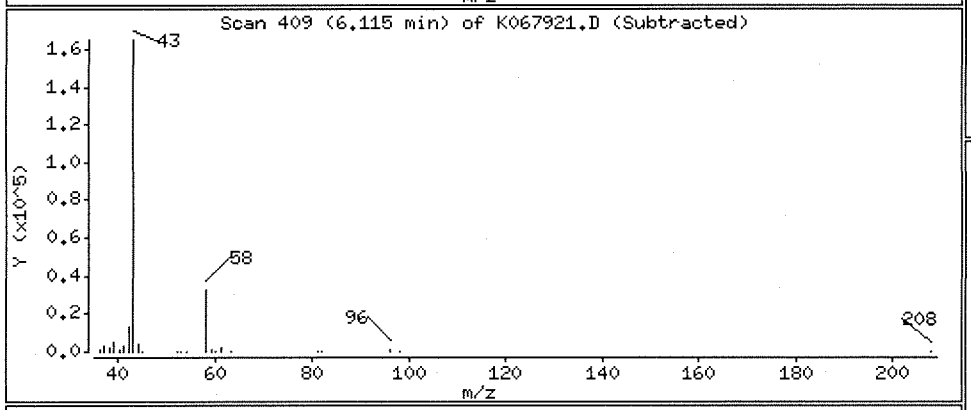
Sample Info: D0601625-005

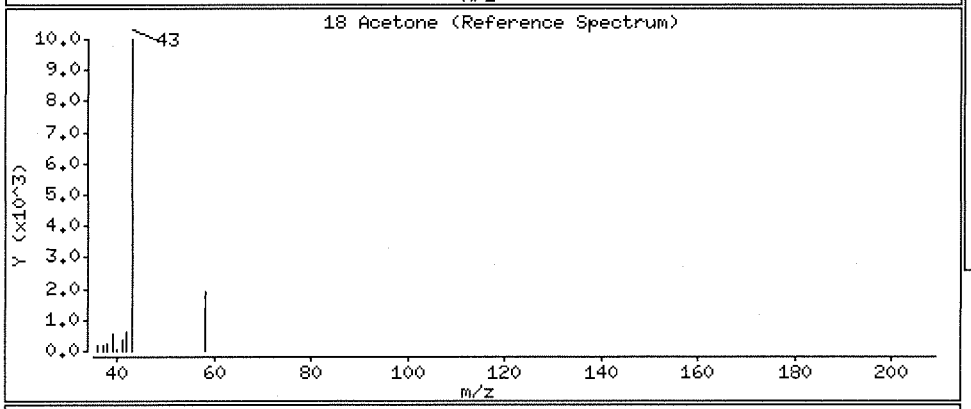
Purge Volume: 10.0 Operator: X

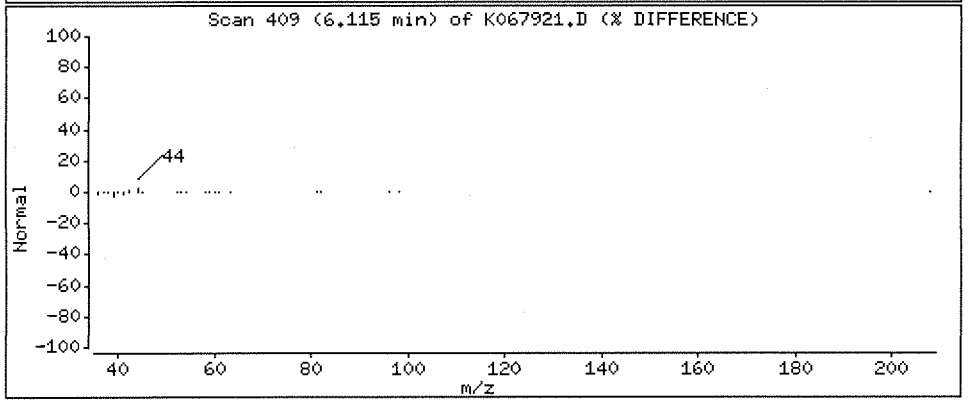
Column phase: DB-624 Column diameter: 0.32

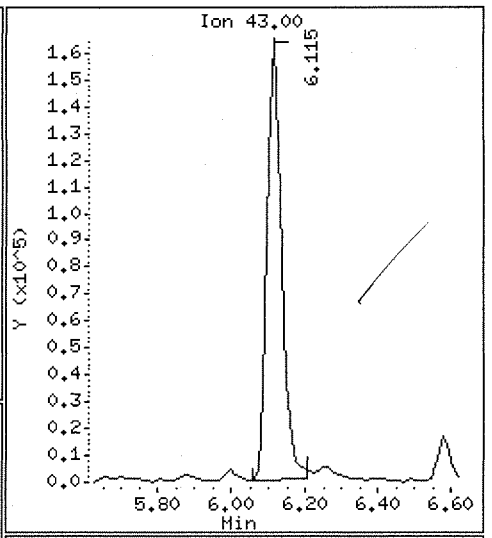
18 Acetone Concentration: 31.3 ug/L

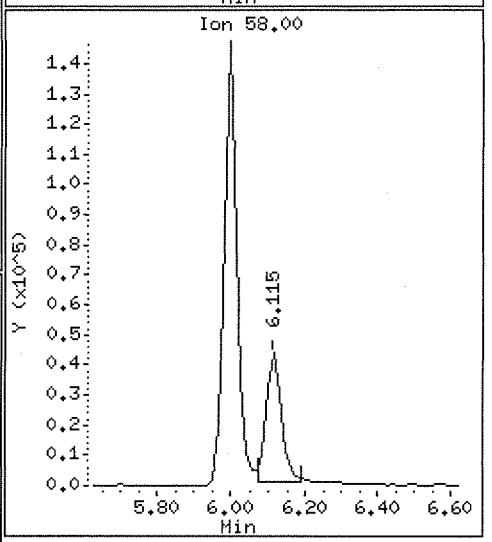












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

Client ID: T-52-GW37

Instrument: MSK.i

Sample Info: D0601625-005

Purge Volume: 10.0

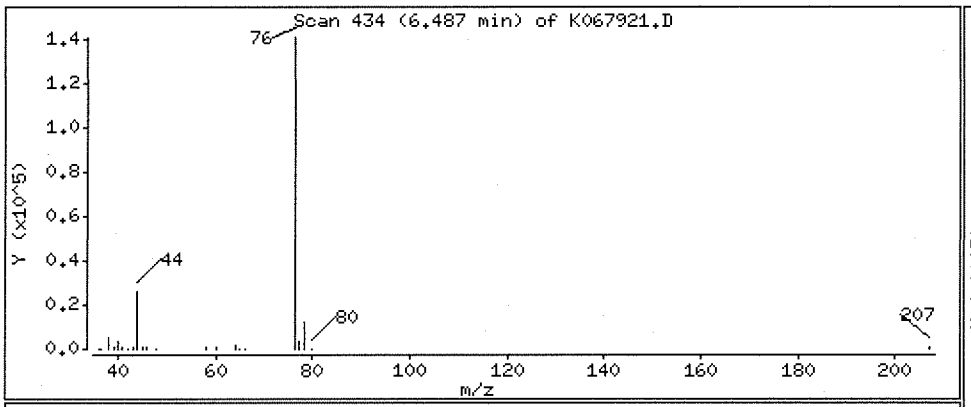
Operator: X

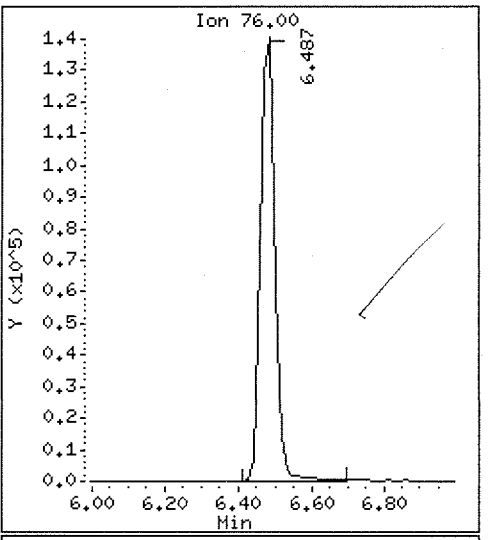
Column phase: DB-624

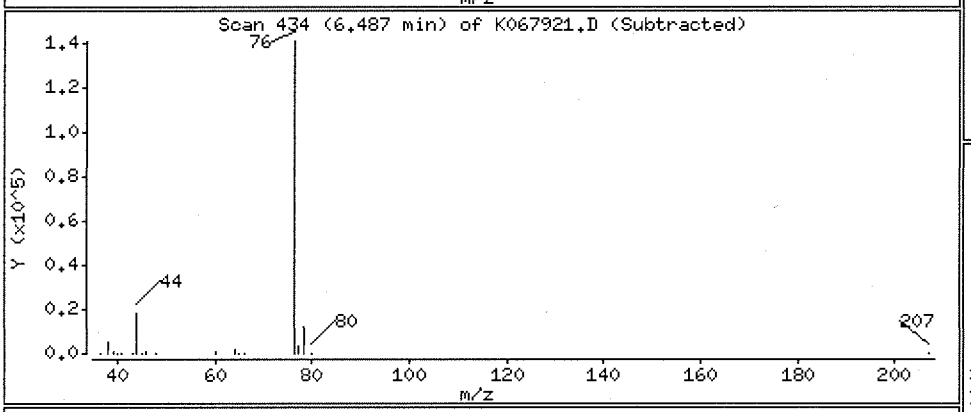
Column diameter: 0.32

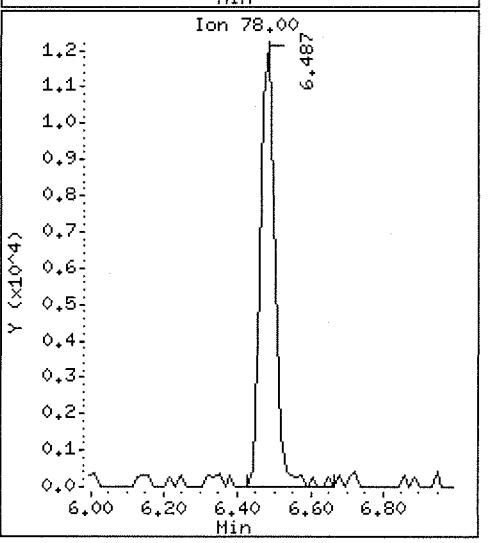
21 Carbon disulfide

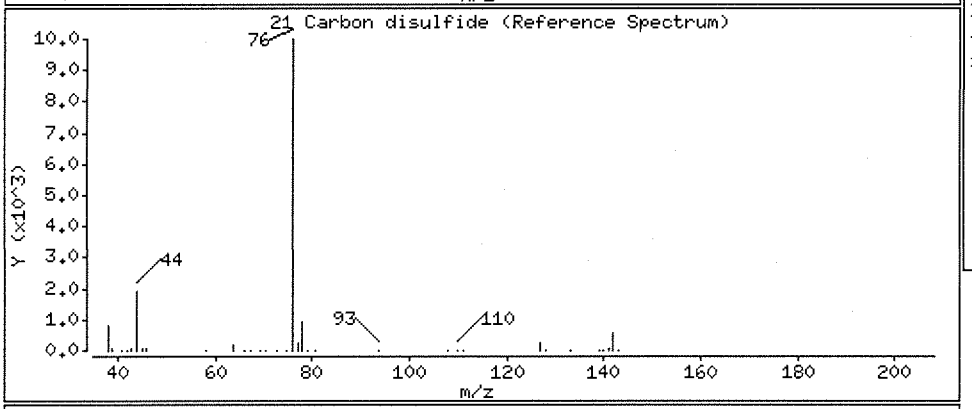
Concentration: 1.73 ug/L

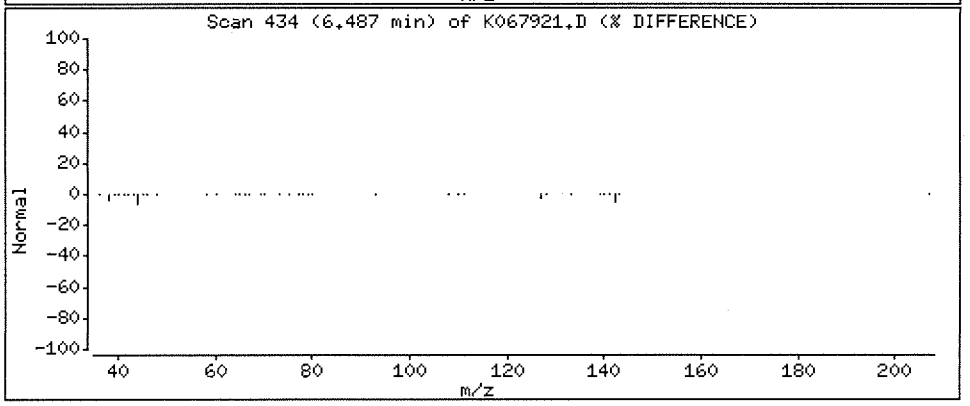












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

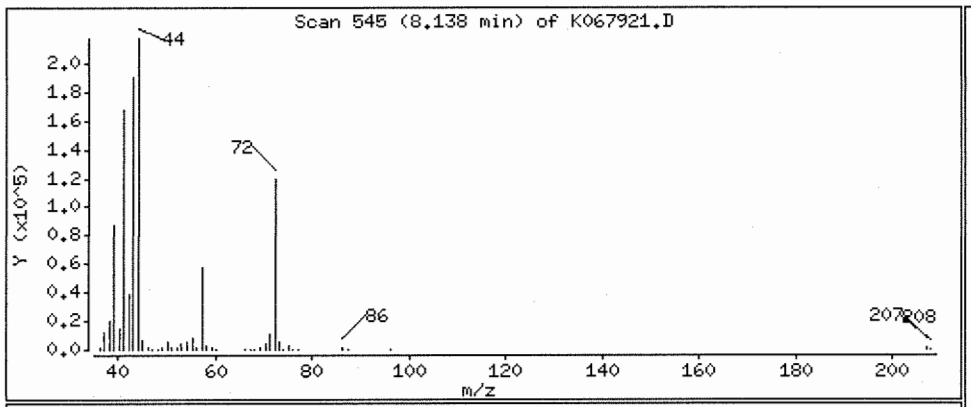
Client ID: T-52-GW37 Instrument: MSK.i

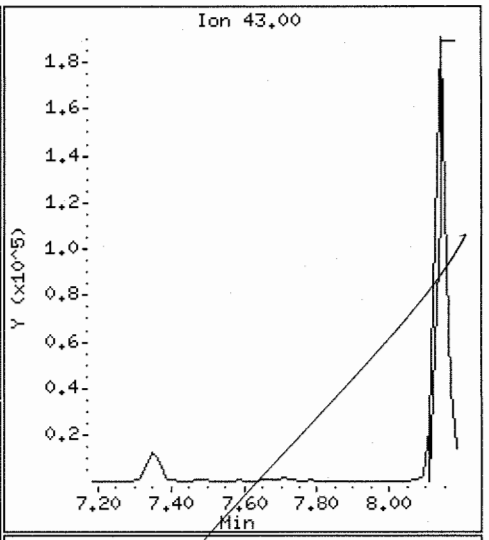
Sample Info: D0601625-005

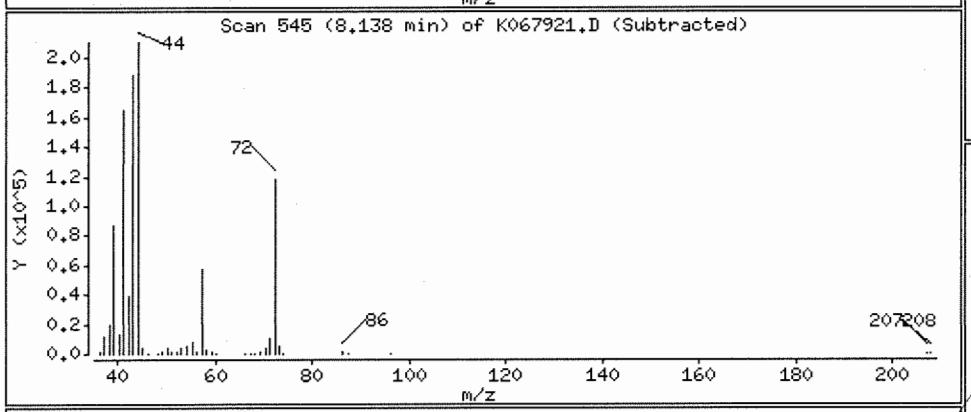
Purge Volume: 10.0 Operator: X

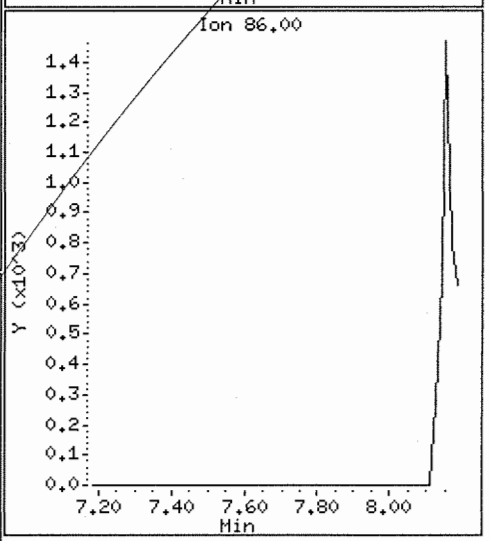
Column phase: DB-624 Column diameter: 0.32

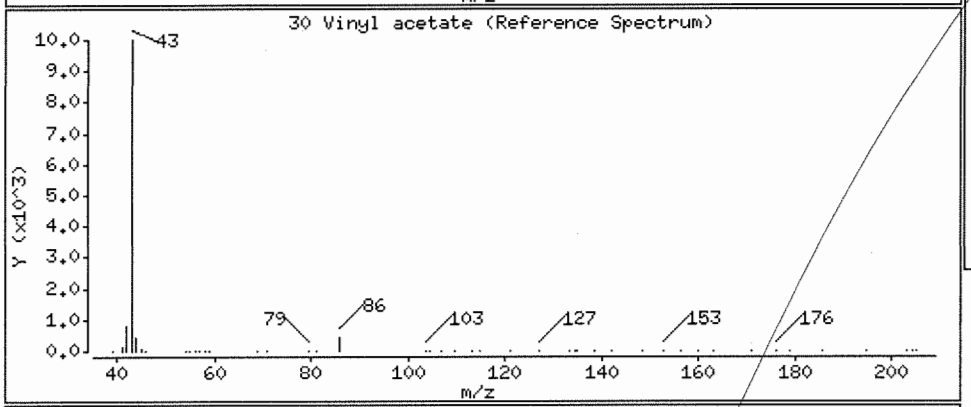
30 Vinyl acetate Concentration: 0.402 ug/L

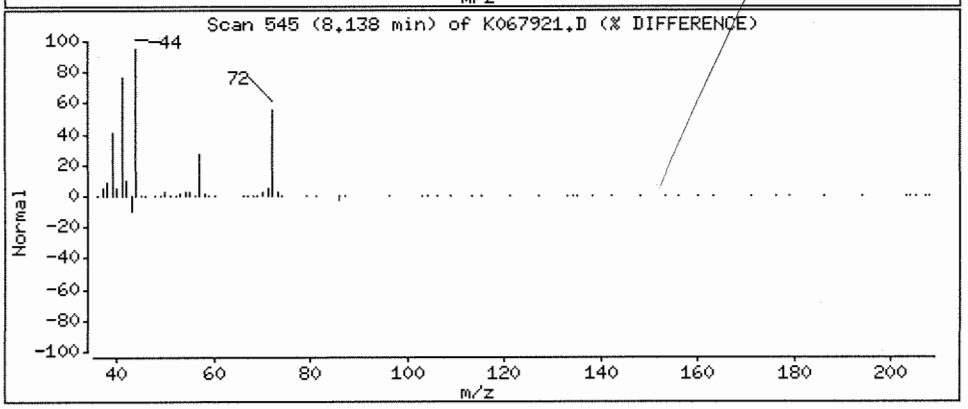












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

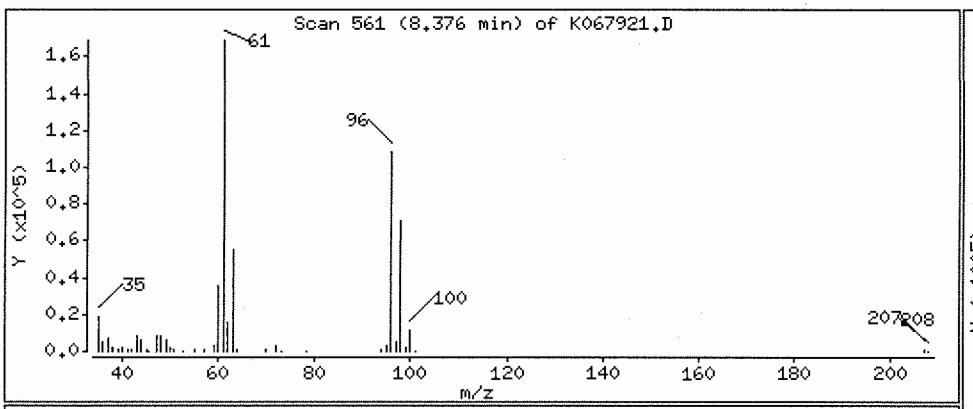
Client ID: T-52-GW37 Instrument: MSK.i

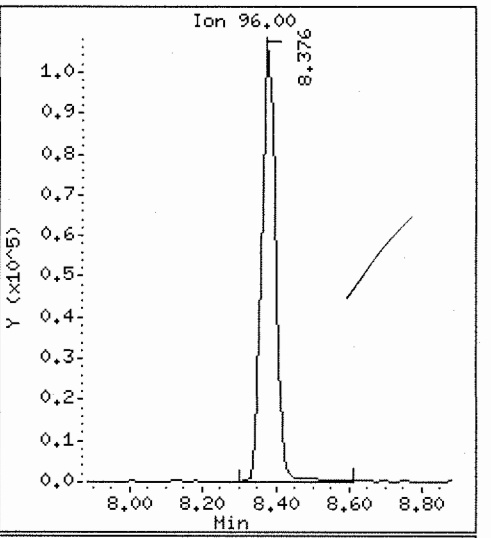
Sample Info: D0601625-005

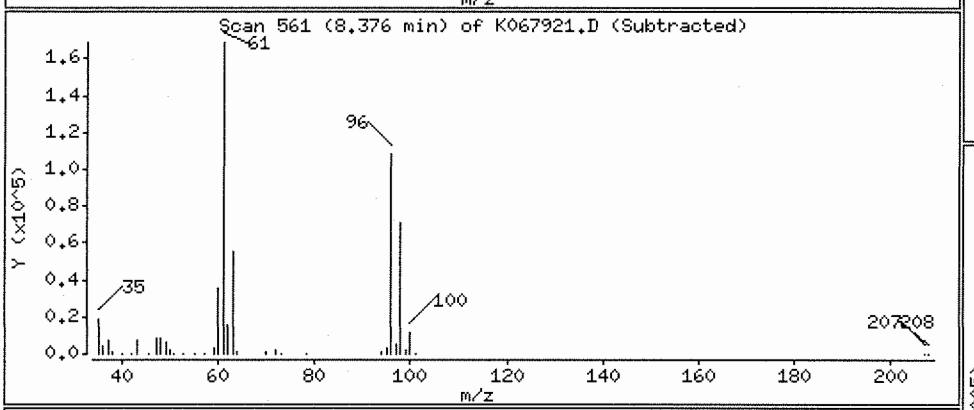
Purge Volume: 10.0 Operator: X

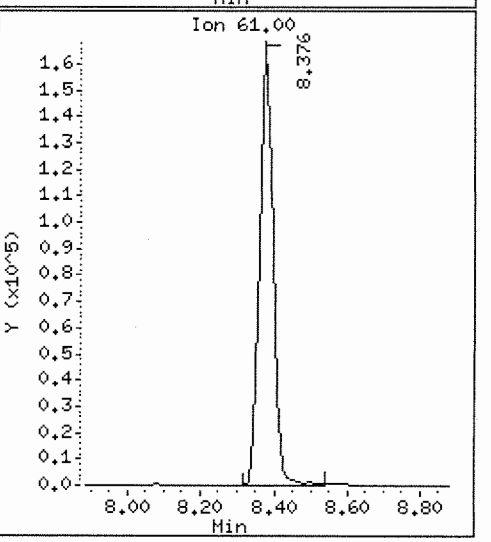
Column phase: DB-624 Column diameter: 0.32

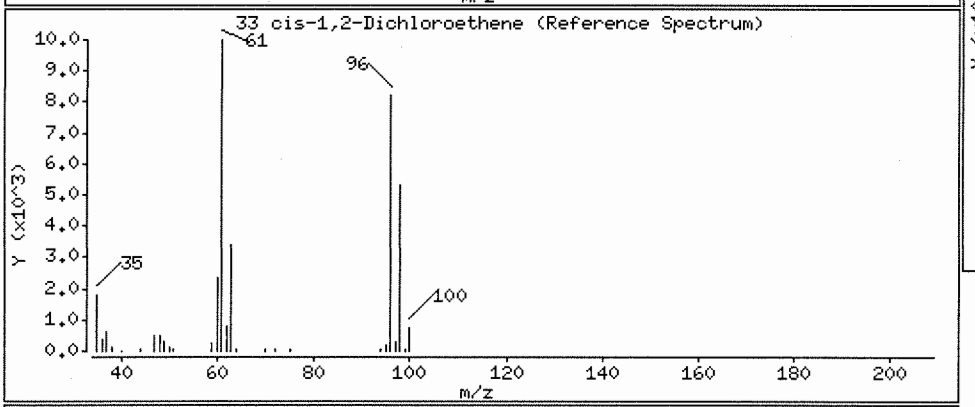
33 cis-1,2-Dichloroethene Concentration: 4.07 ug/L

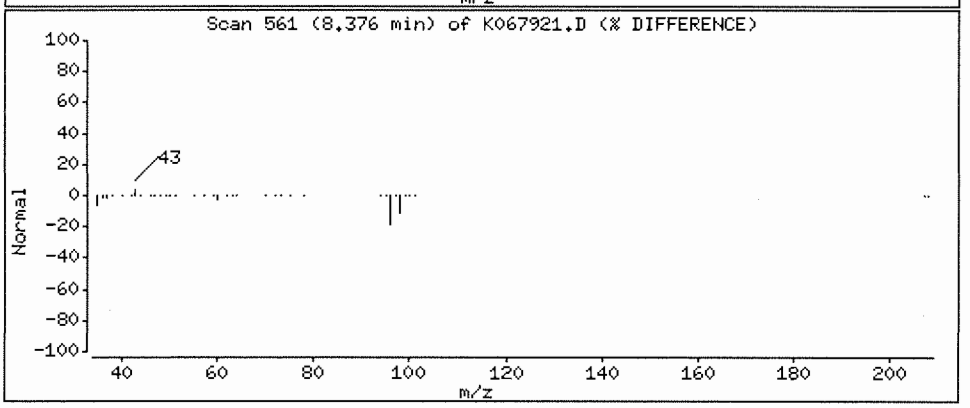












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

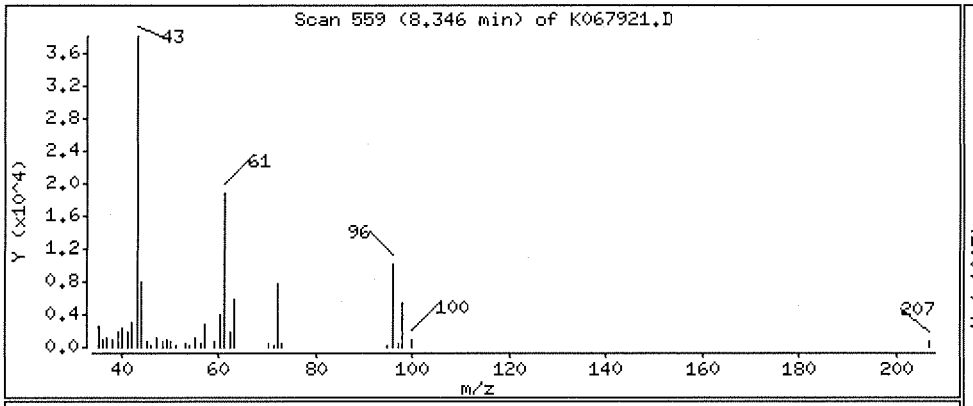
Client ID: T-52-GW37 Instrument: MSK.i

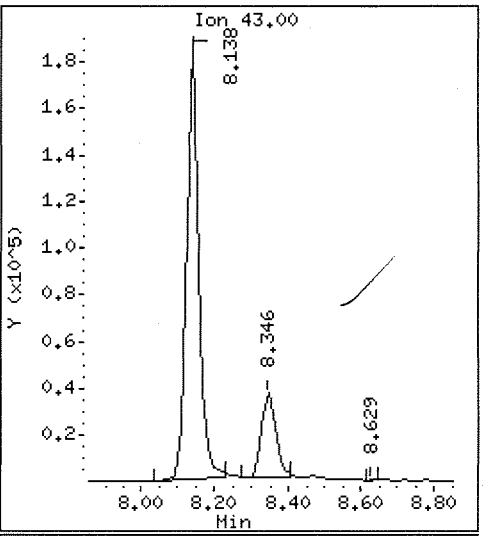
Sample Info: D0601625-005

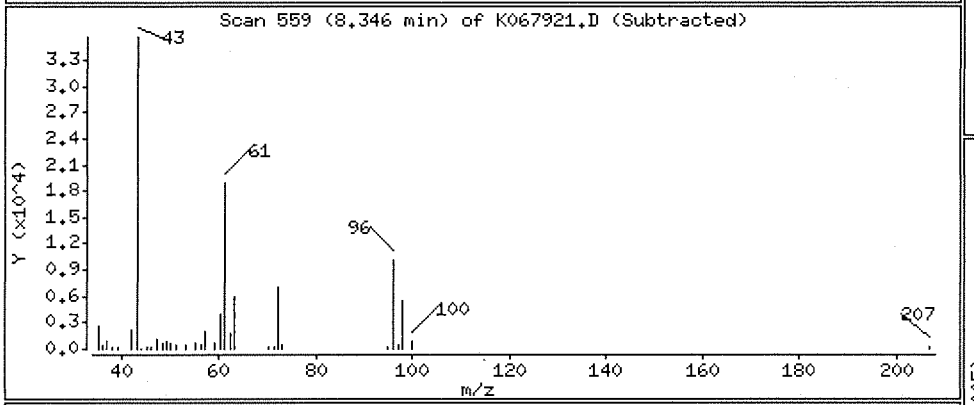
Purge Volume: 10.0 Operator: X

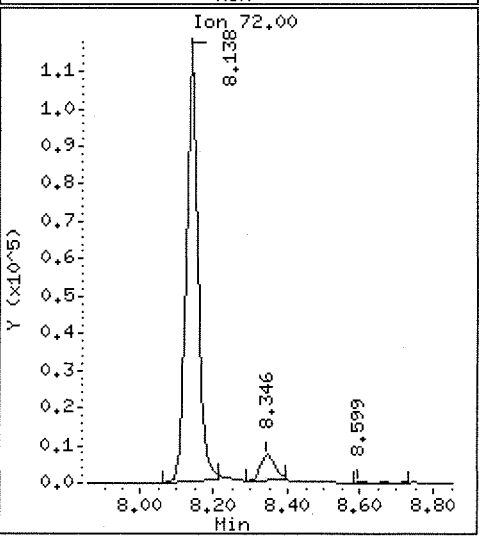
Column phase: DB-624 Column diameter: 0.32

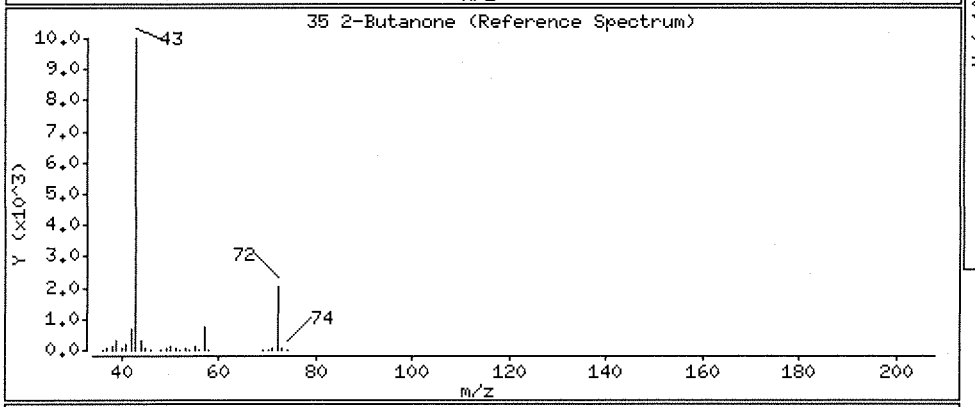
35 2-Butanone Concentration: 4.82 ug/L

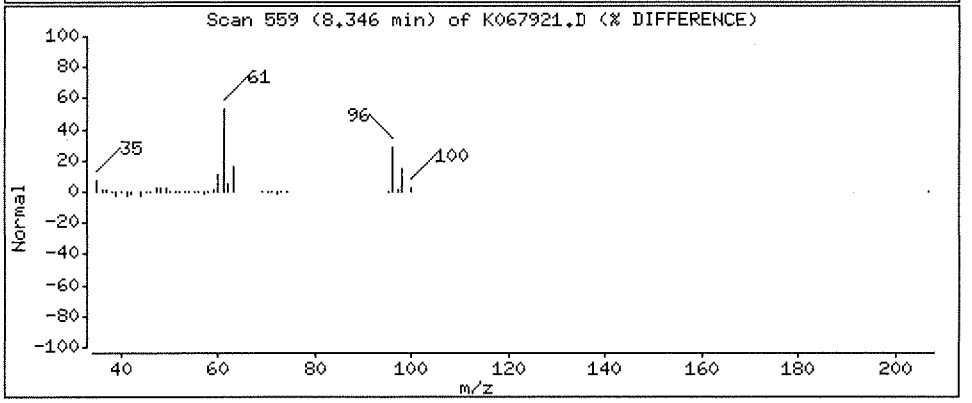












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

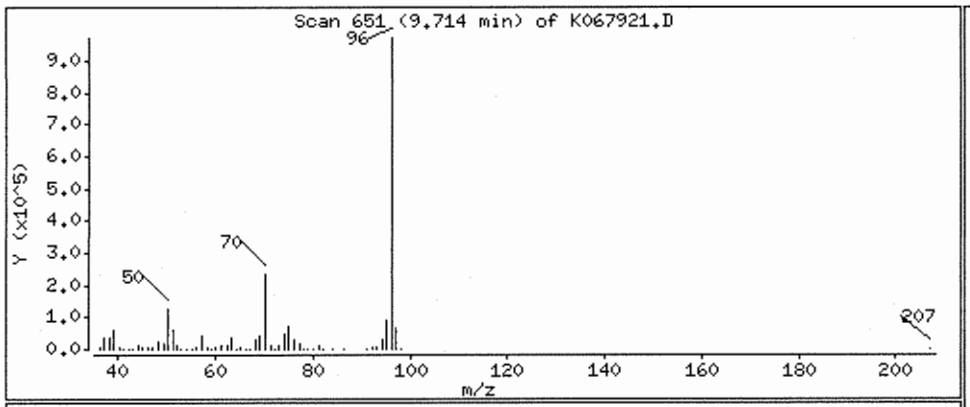
Client ID: T-52-GW37 Instrument: MSK.i

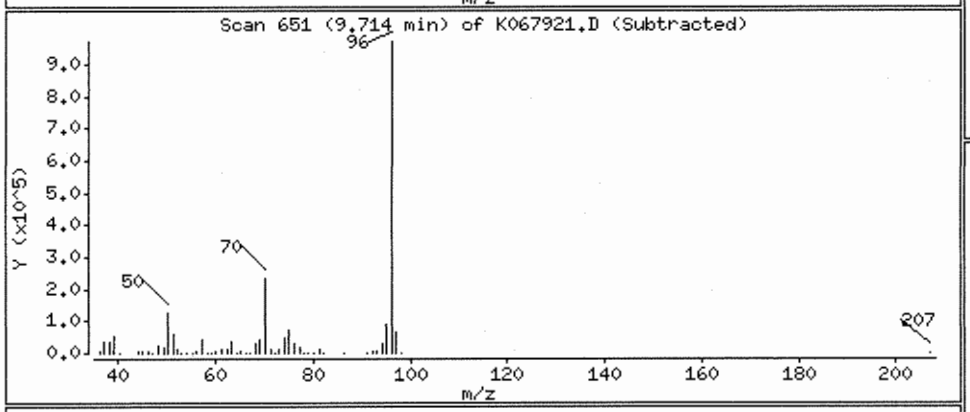
Sample Info: D0601625-005

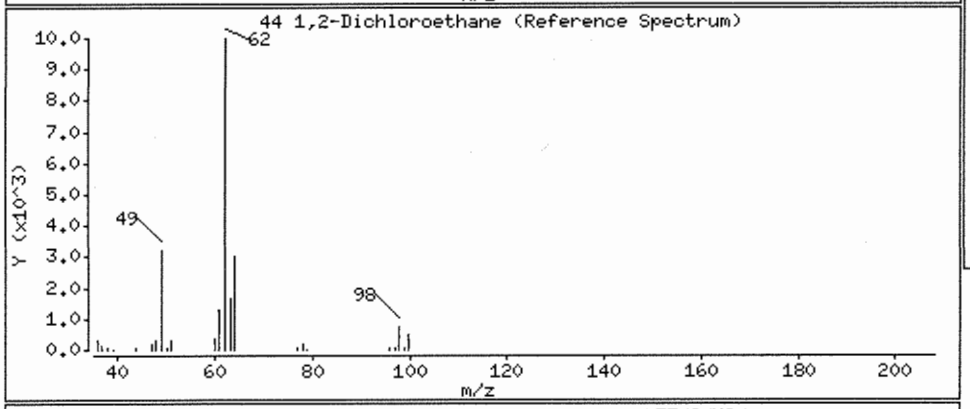
Purge Volume: 10.0 Operator: X

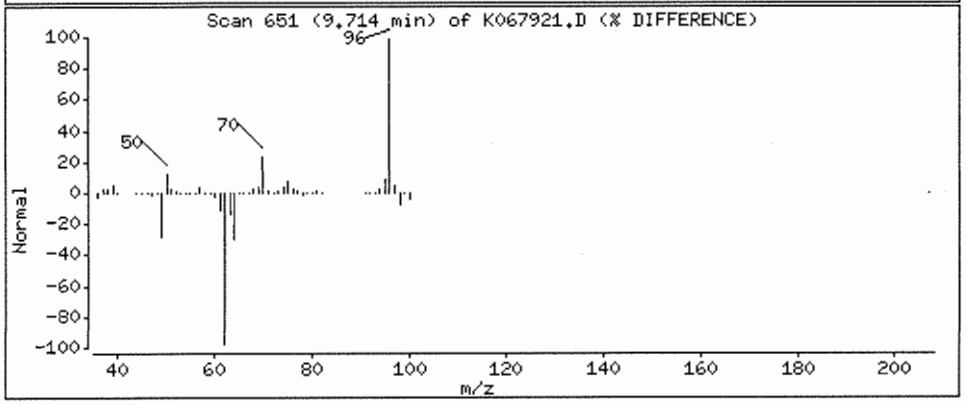
Column phase: DB-624 Column diameter: 0.32

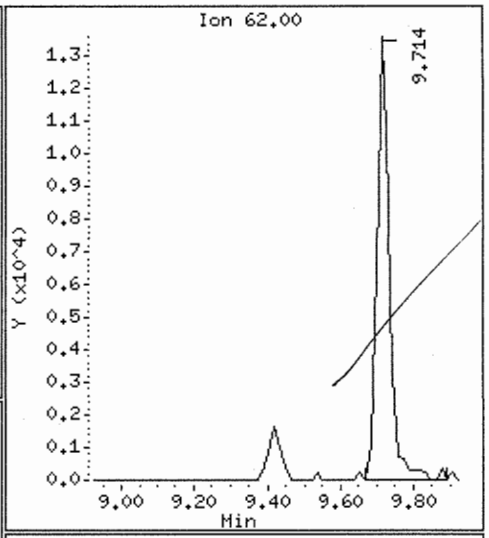
44 1,2-Dichloroethane Concentration: 0.391 ug/L

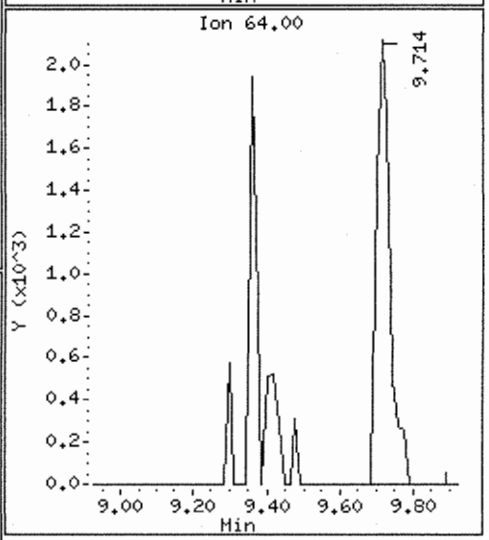












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

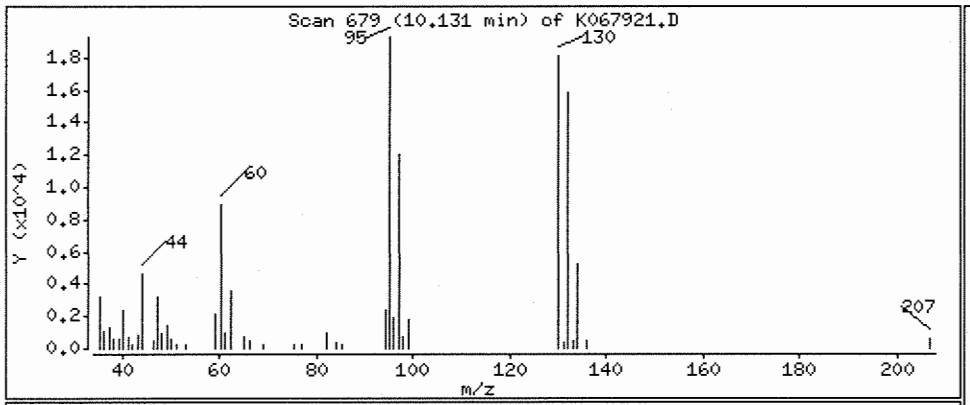
Client ID: T-52-GW37 Instrument: MSK.i

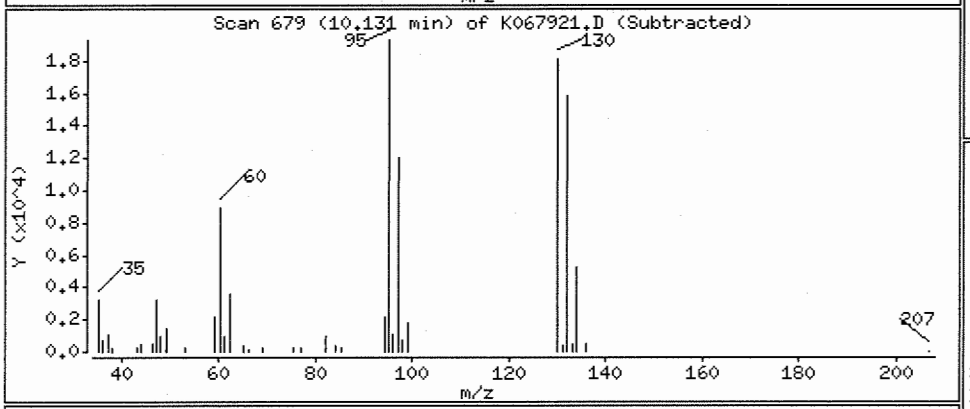
Sample Info: D0601625-005

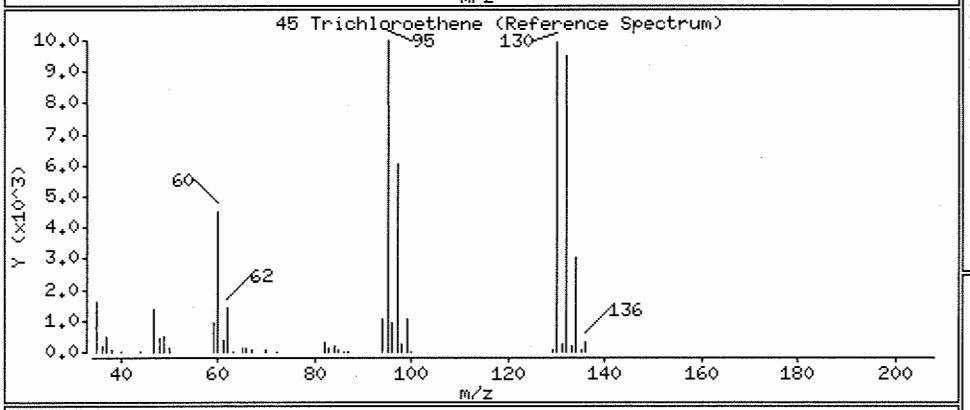
Purge Volume: 10.0 Operator: X

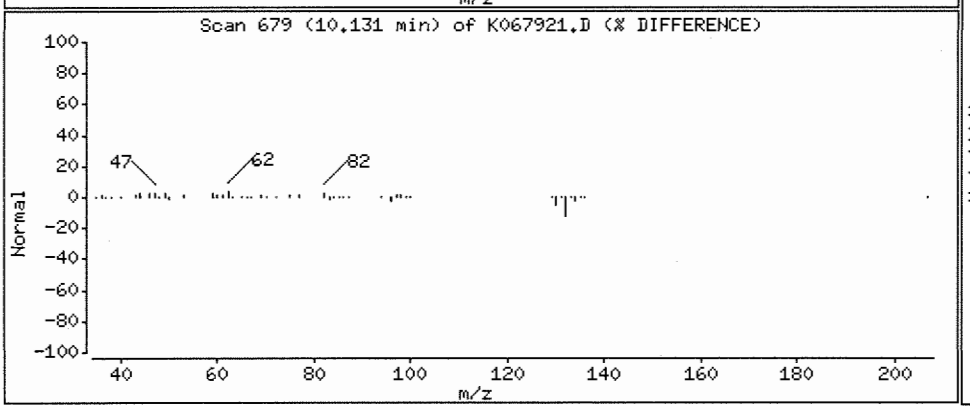
Column phase: DB-624 Column diameter: 0.32

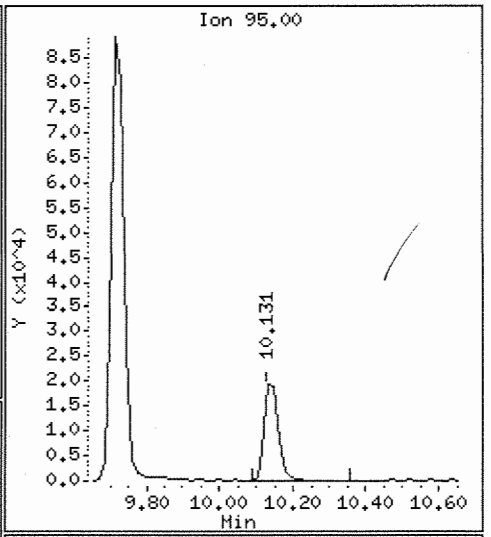
45 Trichloroethene Concentration: 0.727 ug/L

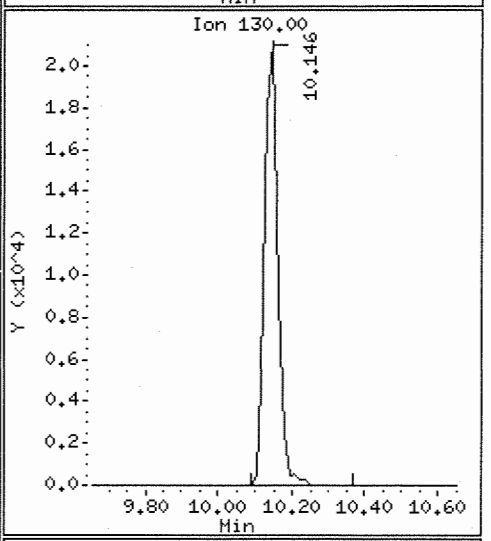


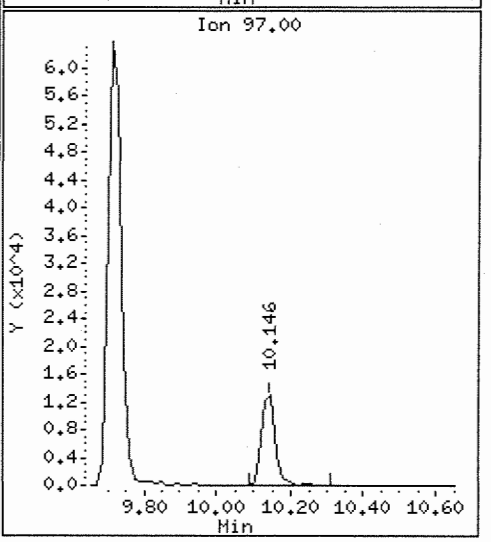












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

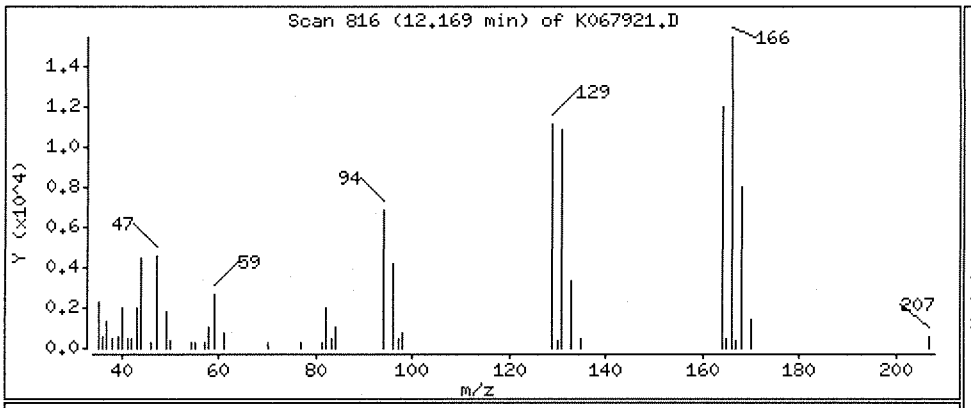
Client ID: T-52-GW37 Instrument: MSK.i

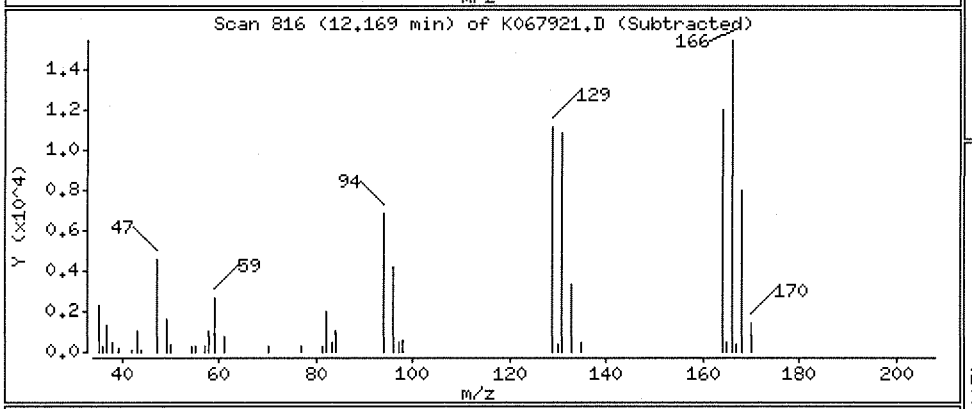
Sample Info: D0601625-005

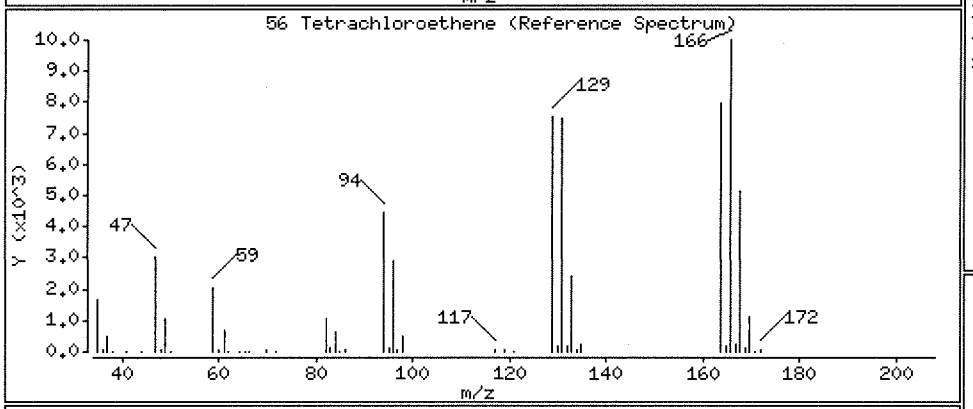
Purge Volume: 10.0 Operator: X

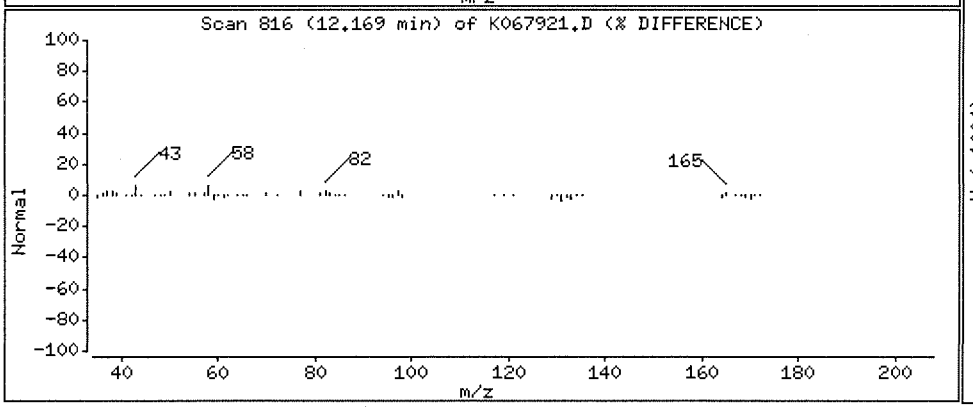
Column phase: DB-624 Column diameter: 0.32

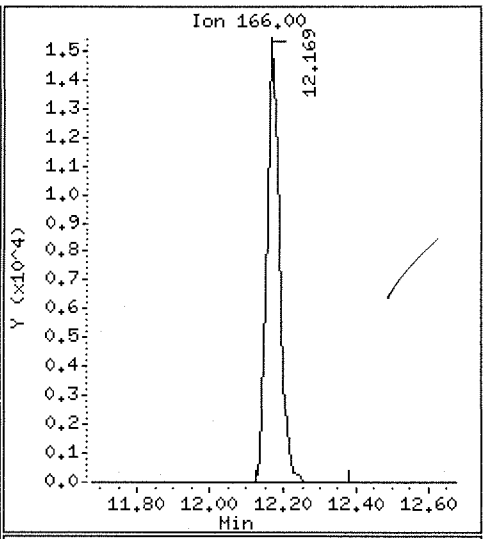
56 Tetrachloroethene Concentration: 0.542 ug/L

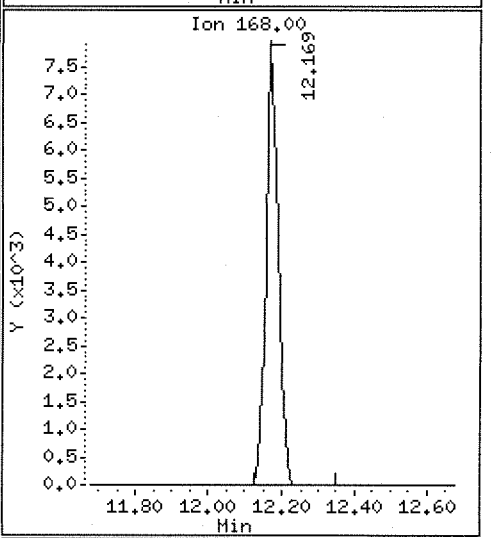


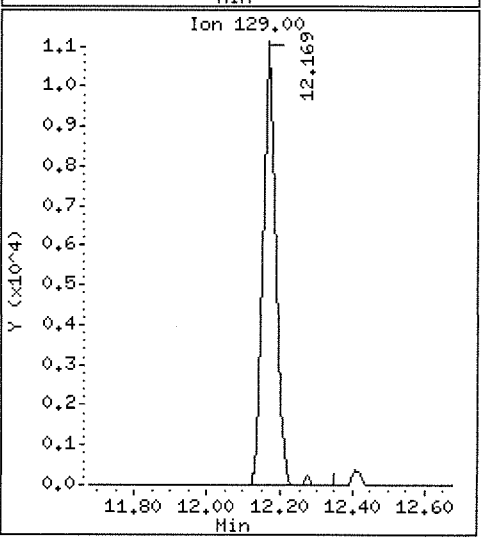












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

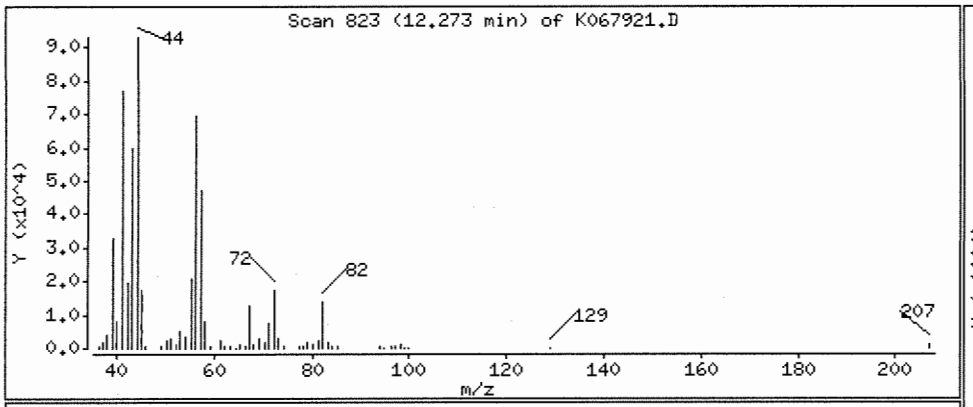
Client ID: T-52-GW37 Instrument: MSK.i

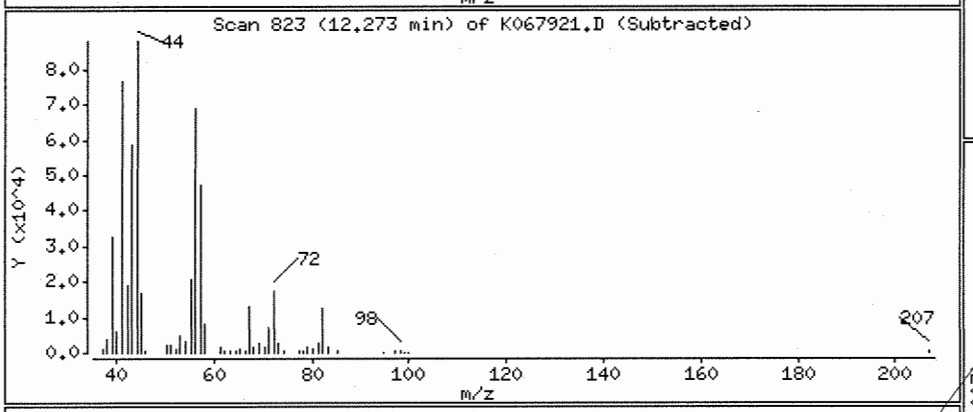
Sample Info: D0601625-005

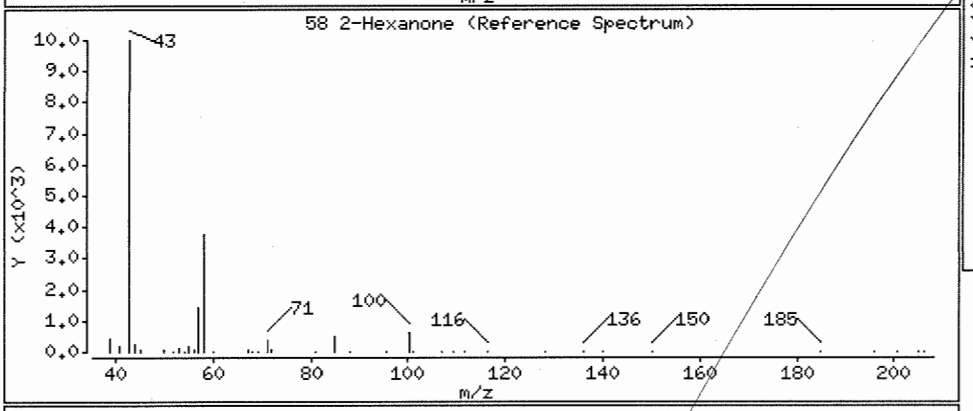
Purge Volume: 10.0 Operator: X

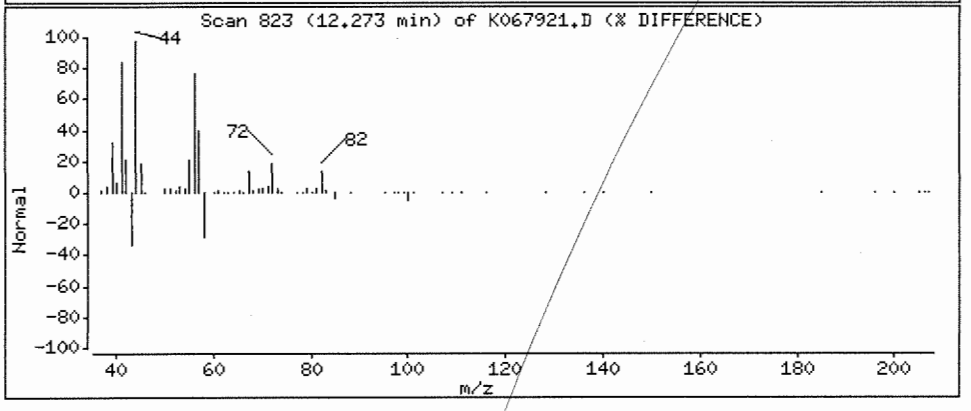
Column phase: DB-624 Column diameter: 0.32

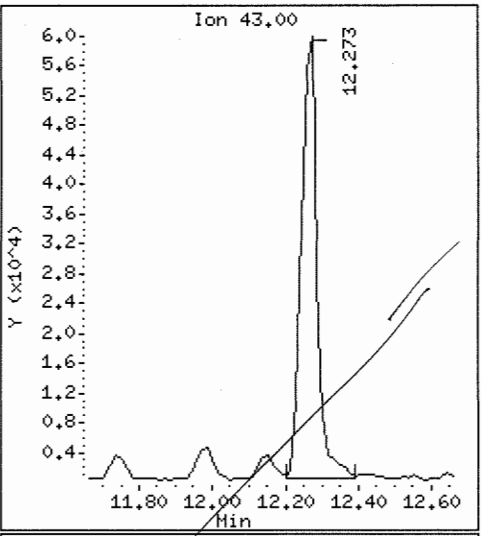
58 2-Hexanone Concentration: 6.16 ug/L

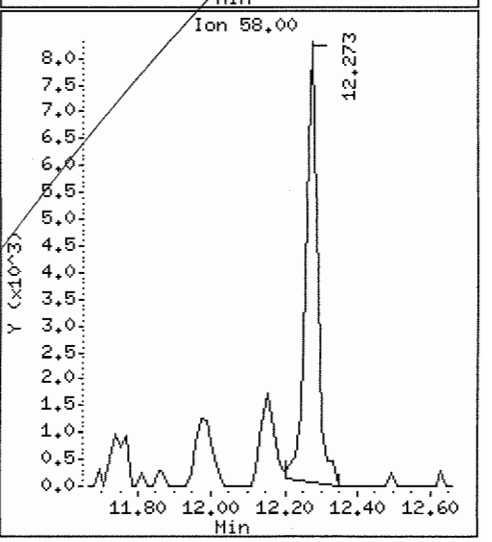












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067921.D

Date : 26-OCT-2006 07:26

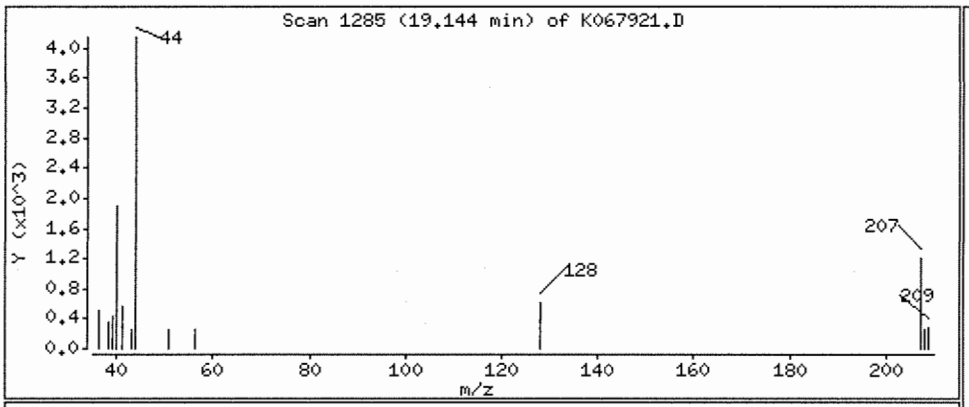
Client ID: T-52-GW37 Instrument: MSK.i

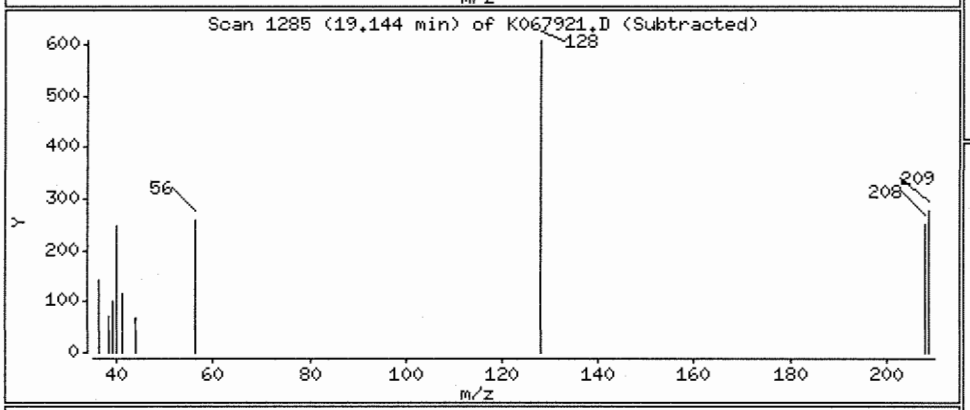
Sample Info: D0601625-005

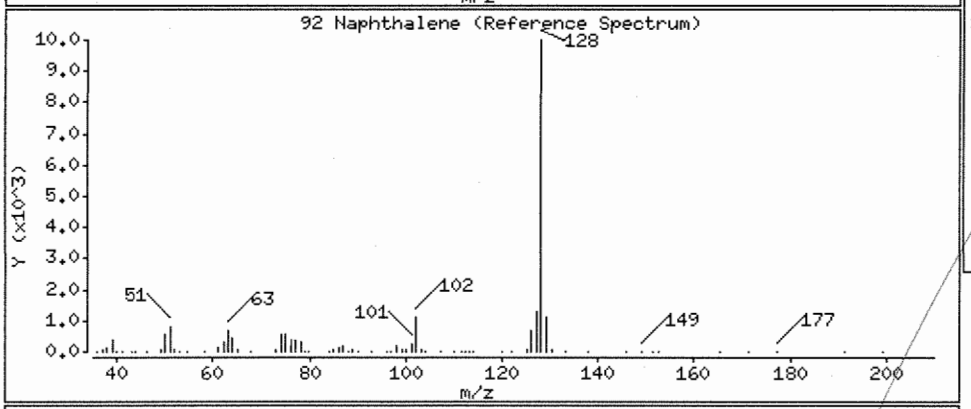
Purge Volume: 10.0 Operator: X

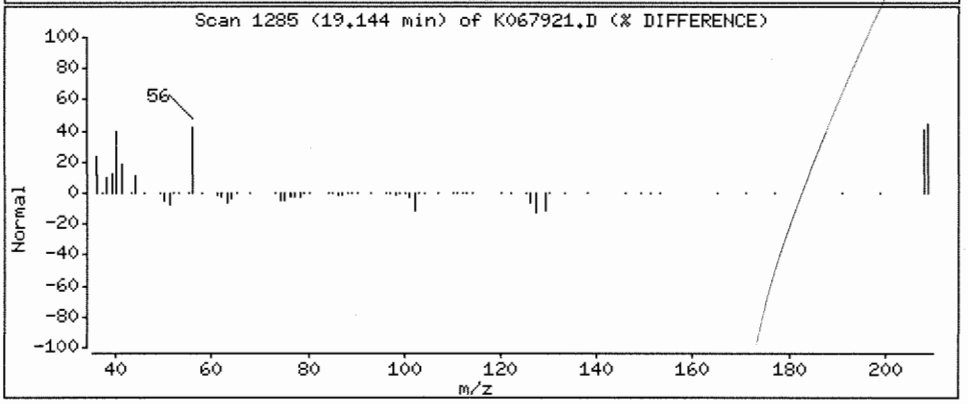
Column phase: DB-624 Column diameter: 0.32

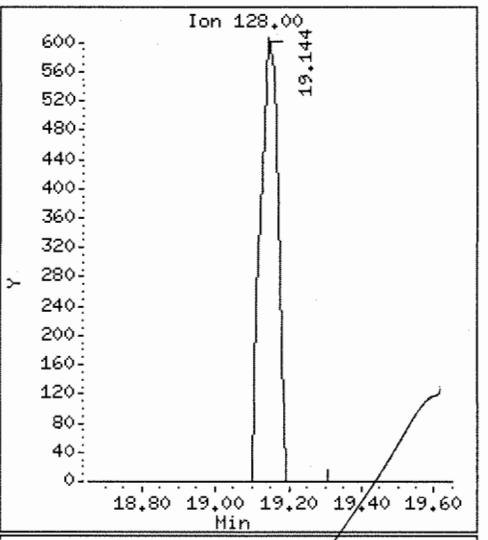
92 Naphthalene Concentration: 1.10 ug/L

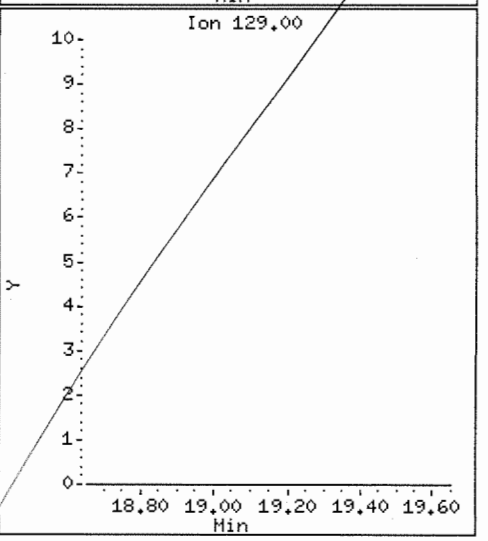












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-53-S7
Lab Code: D0601625-006
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloromethane	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Chloride	ND	U	0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromomethane	ND	U	5.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroethane	ND	U	1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichlorofluoromethane (CFC 11)	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
Acetone	ND	U	5.1	25	1	10/20/2006	10/20/2006	U1020S01	
Carbon Disulfide	ND	U	0.62	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dichloromethane (Methylene Chloride)	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,2-Dichloroethene	ND	U	0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
Methyl tert-Butyl Ether	ND	U	0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Vinyl Acetate	ND	U	0.47	5.0	1	10/20/2006	10/20/2006	U1020S01	
2,2-Dichloropropane	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,2-Dichloroethene	ND	U	0.80	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Butanone (MEK)	ND	U	5.0	25	1	10/20/2006	10/20/2006	U1020S01	
Bromochloromethane	ND	U	0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chloroform	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1-Trichloroethane (TCA)	ND	U	0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1-Dichloropropene	ND	U	0.83	5.0	1	10/20/2006	10/20/2006	U1020S01	
Carbon Tetrachloride	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
Benzene	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloroethane (EDC)	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Trichloroethene (TCE)	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichloropropane	ND	U	0.77	5.0	1	10/20/2006	10/20/2006	U1020S01	
Dibromomethane	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromodichloromethane	ND	U	0.74	5.0	1	10/20/2006	10/20/2006	U1020S01	
cis-1,3-Dichloropropene	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Methyl-2-pentanone (MIBK)	ND	U	6.1	25	1	10/20/2006	10/20/2006	U1020S01	
Toluene	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
trans-1,3-Dichloropropene	ND	U	0.65	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2-Trichloroethane	ND	U	0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
Tetrachloroethene (PCE)	ND	U	0.78	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichloropropane	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Hexanone	ND	U	7.7	25	1	10/20/2006	10/20/2006	U1020S01	
Dibromochloromethane	ND	U	0.82	5.0	1	10/20/2006	10/20/2006	U1020S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-53-S7
Lab Code: D0601625-006
Extraction SW5035
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Wet
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Chlorobenzene	ND	U	0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,1,2-Tetrachloroethane	ND	U	0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
Ethylbenzene	ND	U	0.86	5.0	1	10/20/2006	10/20/2006	U1020S01	
Xylenes, Total	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
Styrene	ND	U	0.81	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromoform	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
Isopropylbenzene	ND	U	0.75	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,1,2,2-Tetrachloroethane	ND	U	0.61	5.0	1	10/20/2006	10/20/2006	U1020S01	
Bromobenzene	ND	U	0.79	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichloropropane	ND	U	1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Propylbenzene	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
2-Chlorotoluene	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3,5-Trimethylbenzene	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Chlorotoluene	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
tert-Butylbenzene	ND	U	0.87	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trimethylbenzene	ND	U	0.84	5.0	1	10/20/2006	10/20/2006	U1020S01	
sec-Butylbenzene	ND	U	0.88	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,3-Dichlorobenzene	ND	U	0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
4-Isopropyltoluene	ND	U	0.85	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,4-Dichlorobenzene	ND	U	0.92	5.0	1	10/20/2006	10/20/2006	U1020S01	
n-Butylbenzene	ND	U	0.91	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dichlorobenzene	ND	U	1.1	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	3.2	25	1	10/20/2006	10/20/2006	U1020S01	
1,2,4-Trichlorobenzene	ND	U	1.2	5.0	1	10/20/2006	10/20/2006	U1020S01	
Hexachlorobutadiene	ND	U	1.0	5.0	1	10/20/2006	10/20/2006	U1020S01	
Naphthalene	ND	U	1.6	5.0	1	10/20/2006	10/20/2006	U1020S01	
1,2,3-Trichlorobenzene	ND	U	1.4	5.0	1	10/20/2006	10/20/2006	U1020S01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	85	70-148	10/20/2006	
4-Bromofluorobenzene - SS	96	69-138	10/20/2006	
Dibromofluoromethane - SS	89	74-131	10/20/2006	
Toluene-d8 - SS	94	77-132	10/20/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064416.D
Lab Smp Id: D0601625-006 Client Smp ID: T-53-S7
Inj Date : 20-OCT-2006 19:00
Operator : Reggie Inst ID: MSU.i
Smp Info : D0601625-006
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\8260s5.m
Meth Date : 26-Oct-2006 09:35 bgeers Quant Type: ISTD
Cal Date : 18-OCT-2006 16:41 Cal File: U064376.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12

Concentration Formula: Amt * DF * UF*5/(Ws*((100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
UF	1.000	Unit Correction Factor
Ws	5.000	Weight of Soil
M	0.00000	Moisture
Va	0.10000	Volume MeOH Purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
*	1 Fluorobenzene	96	6.435	6.435	(1.000)	1931385	50.0000	
*	2 Chlorobenzene-d5	117	10.222	10.222	(1.000)	1333688	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	13.098	13.098	(1.000)	317451	50.0000	
$	5 Dibromofluoromethane	113	5.564	5.564	(0.865)	473394	44.3678	44.37
$	6 1,2-Dichloroethane-d4	65	5.999	5.999	(0.587)	624846	42.6059	42.60
$	7 Toluene-d8	98	8.450	8.450	(0.827)	1654885	46.7584	46.76
$	8 Bromofluorobenzene	174	11.680	11.680	(0.892)	430033	48.0748	48.07
	9 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	Compound Not Detected.					
	12 Bromomethane	94	Compound Not Detected.					
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	16 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	18 1,1-Dichloroethene	96	Compound Not Detected.					
	19 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	23 Methylene chloride	84	Compound Not Detected.					
	26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	27 tert-Butylmethylether	73	Compound Not Detected.					
	29 1,1-Dichloroethane	63	Compound Not Detected.					

10-26-06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	30 Vinyl acetate	43	Compound Not Detected.					
	32 2,2-Dichloropropane	77	Compound Not Detected.					
	33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
M	34 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	35 2-Butanone	43	Compound Not Detected.					
	36 Bromochloromethane	128	Compound Not Detected.					
	37 Chloroform	83	Compound Not Detected.					
	38 1,1,1-Trichloroethane	97	Compound Not Detected.					
	39 1,1-Dichloropropene	75	Compound Not Detected.					
	40 Carbon tetrachloride	119	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	43 1,2-Dichloroethane	62	6.435	6.101	(1.000)	33801	1.96849	1.97(a)
	44 Trichloroethene	95	Compound Not Detected.					
	45 1,2-Dichloropropane	63	Compound Not Detected.					
	47 Dibromomethane	93	Compound Not Detected.					
	48 Bromodichloromethane	83	Compound Not Detected.					
	50 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	51 4-Methyl-2-pentanone	58	Compound Not Detected.					
	52 Toluene	92	Compound Not Detected.					
	53 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	54 1,1,2-Trichloroethane	83	Compound Not Detected.					
	55 Tetrachloroethene	166	Compound Not Detected.					
	56 1,3-Dichloropropane	76	Compound Not Detected.					
	57 2-Hexanone	43	Compound Not Detected.					
	58 Dibromochloromethane	129	Compound Not Detected.					
	59 1,2-Dibromoethane	107	Compound Not Detected.					
	61 Chlorobenzene	112	Compound Not Detected.					
	62 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	63 Ethylbenzene	91	Compound Not Detected.					
	64 m-,p-Xylene	106	Compound Not Detected.					
	65 o-Xylene	106	Compound Not Detected.					
M	66 Xylene (total)	106	Compound Not Detected.					
	67 Styrene	104	Compound Not Detected.					
	68 Bromoform	173	Compound Not Detected.					
	69 Isopropylbenzene	105	Compound Not Detected.					
	70 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 1,2,3-Trichloropropane	110	Compound Not Detected.					
	74 n-Propylbenzene	120	Compound Not Detected.					
	76 2-Chlorotoluene	126	Compound Not Detected.					
	77 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	78 4-Chlorotoluene	126	Compound Not Detected.					
	79 tert-Butylbenzene	119	Compound Not Detected.					
	80 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	81 sec-Butylbenzene	105	Compound Not Detected.					
	82 1,3-Dichlorobenzene	146	Compound Not Detected.					
	83 p-Isopropyltoluene	119	Compound Not Detected.					
	84 1,4-Dichlorobenzene	146	Compound Not Detected.					
	85 n-Butylbenzene	91	Compound Not Detected.					
	86 1,2-Dichlorobenzene	146	Compound Not Detected.					
	87 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
	88 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	89 Hexachlorobutadiene	225	Compound Not Detected.					
	90 Naphthalene	128	Compound Not Detected.					

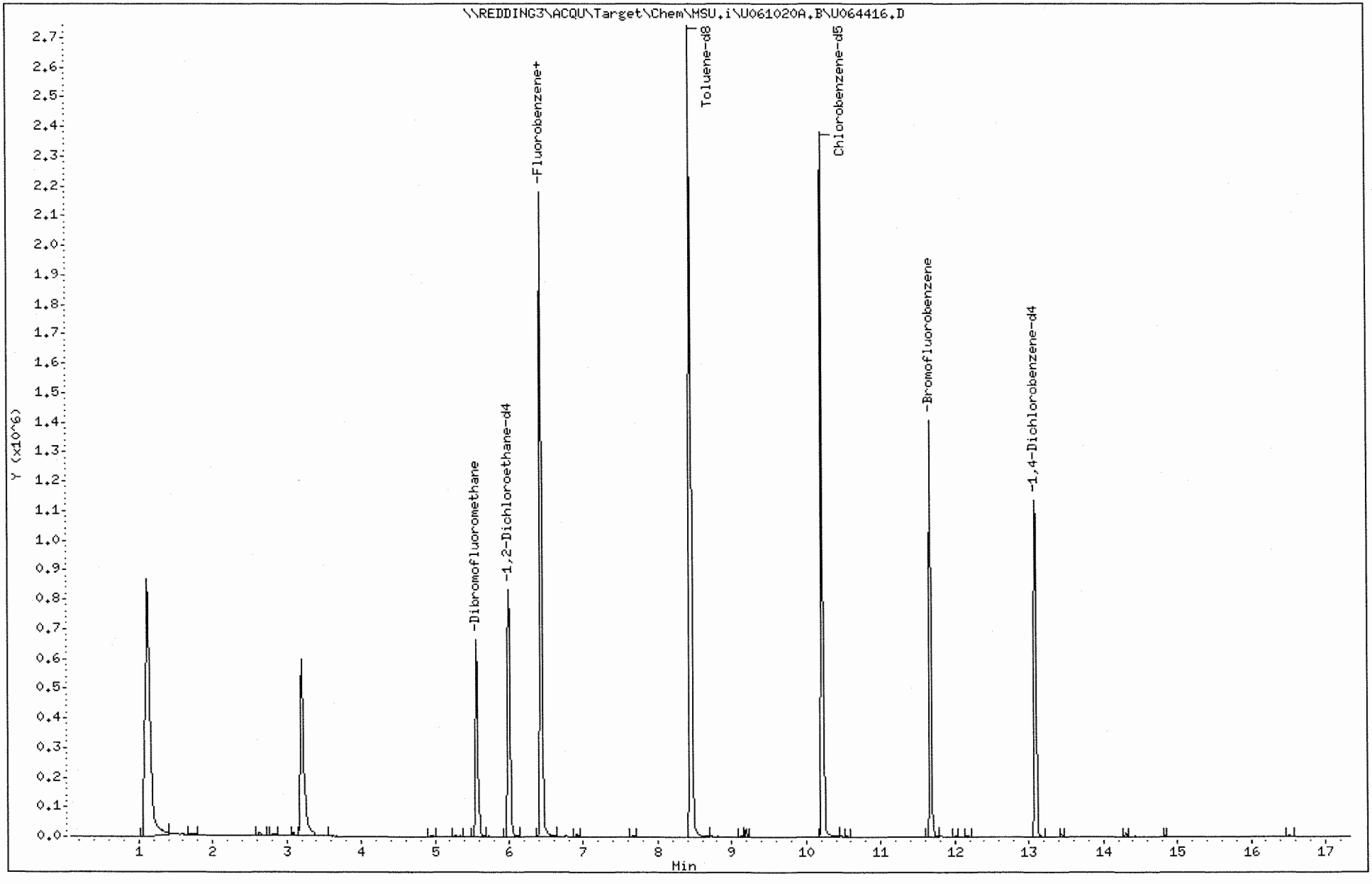
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
91 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064416.D
Date : 20-OCT-2006 19:00
Client ID: T-53-S7
Sample Info: D0601625-006
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSU.i
Operator: Reggie
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSU.i\U061020A.B\U064416.D

Date : 20-OCT-2006 19:00

Client ID: T-53-S7

Instrument: MSU.i

Sample Info: D0601625-006

Purge Volume: 10.0

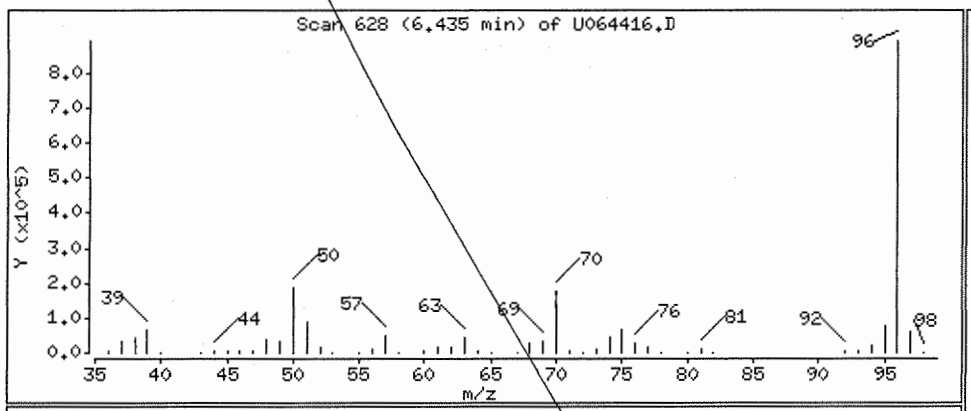
Operator: Reggie

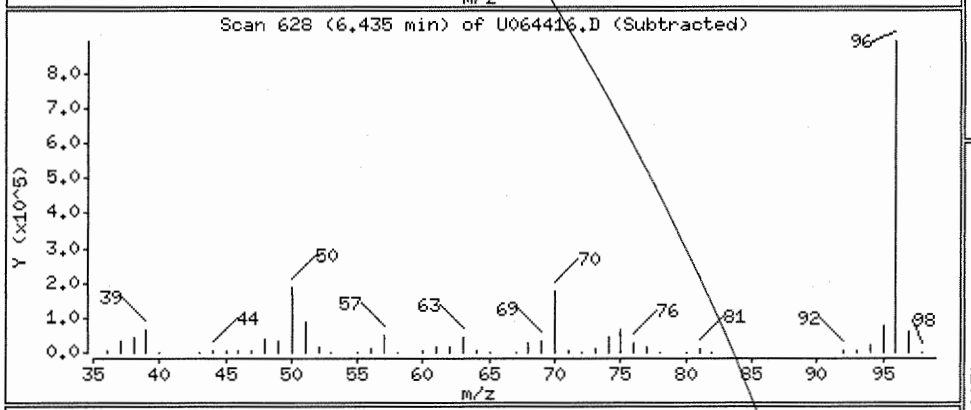
Column phase: DB-624

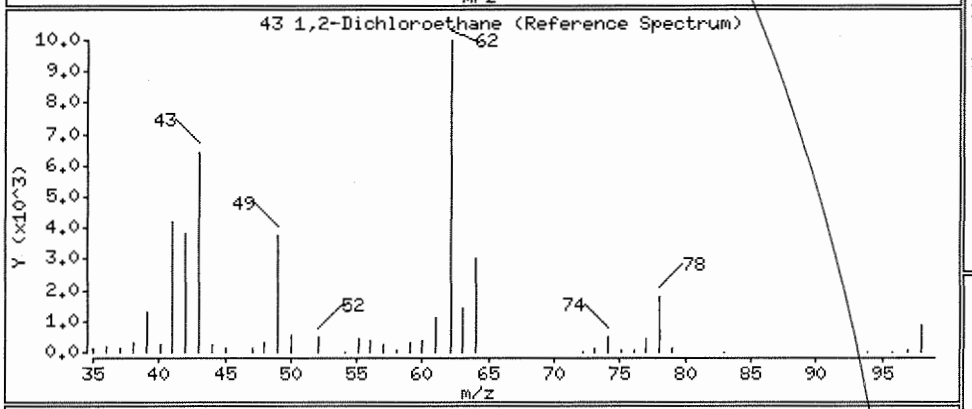
Column diameter: 0.32

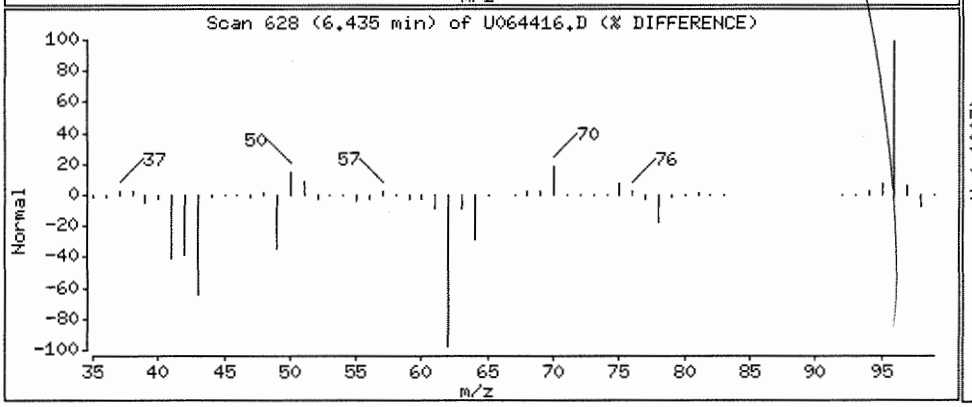
43 1,2-Dichloroethane

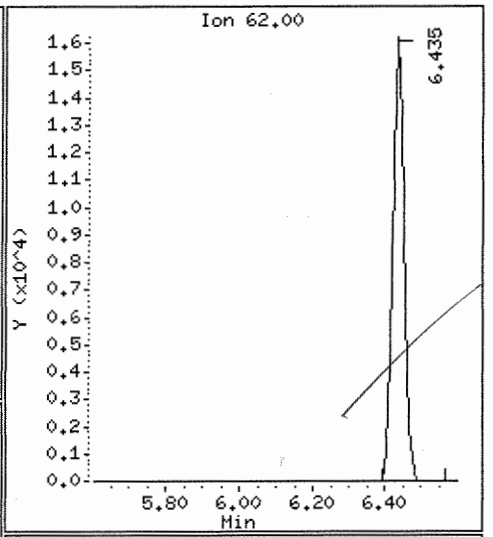
Concentration: 1.97 ug/Kg

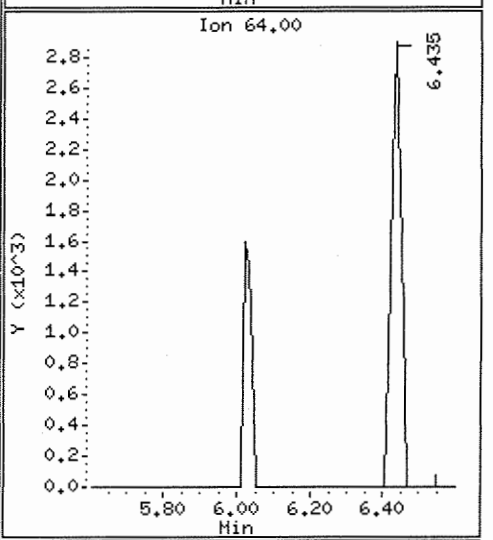


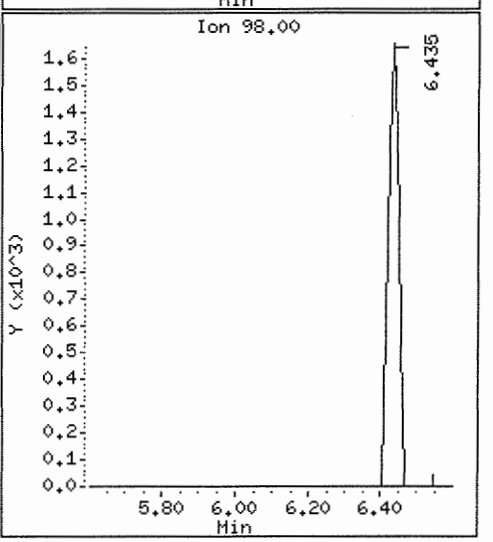












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-53-GW11
Lab Code: D0601625-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.5	10	10	10/26/2006	10/26/2006	K1025W02	
Chloromethane	ND	U	2.4	10	10	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	ND	U	1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
Bromomethane	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
Chloroethane	ND	U	1.8	10	10	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	ND	U	1.8	10	10	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	ND	U	1.5	20	10	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	**110**		1.5	5.0	10	10/26/2006	10/26/2006	K1025W02	
Acetone	ND	U	9.1	100	10	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	ND	U	1.4	20	10	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	ND	U	1.9	20	10	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	**4.8**	J	1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	ND	U	1.1	20	10	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	**55**		1.1	5.0	10	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	ND	U	2.4	100	10	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	ND	U	1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	**180**		1.4	5.0	10	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	ND	U	6.6	100	10	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	ND	U	1.7	5.0	10	10/26/2006	10/26/2006	K1025W02	
Chloroform	**6.4**		1.3	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	**13**		1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	ND	U	1.4	5.0	10	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	ND	U	1.3	5.0	10	10/26/2006	10/26/2006	K1025W02	
Benzene	ND	U	1.3	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	**3.2**	J	1.0	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	ND	U	1.6	5.0	10	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	ND	U	1.5	5.0	10	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	ND	U	1.4	10	10	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	ND	U	1.4	5.0	10	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	ND	U	5.6	100	10	10/26/2006	10/26/2006	K1025W02	
Toluene	ND	U	1.3	5.0	10	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	ND	U	0.90	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	**6.9**		1.5	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	ND	U	1.1	5.0	10	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	ND	U	4.9	100	10	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	ND	U	1.2	10	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromoethane (EDB)	ND	U	1.9	10	10	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	ND	U	1.2	5.0	10	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-53-GW11
Lab Code: D0601625-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.9	5.0	10	10/26/2006	10/26/2006	K1025W02	
Ethylbenzene	ND	U	1.1	5.0	10	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	ND	U	1.0	15	10	10/26/2006	10/26/2006	K1025W02	
Styrene	ND	U	0.70	5.0	10	10/26/2006	10/26/2006	K1025W02	
Bromoform	ND	U	1.8	10	10	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	ND	U	2.0	5.0	10	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	ND	U	1.3	10	10	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichloropropane	ND	U	2.0	5.0	10	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	ND	U	1.1	10	10	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	ND	U	1.4	10	10	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	ND	U	0.80	10	10	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	ND	U	0.80	10	10	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	ND	U	0.90	10	10	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	ND	U	1.5	5.0	10	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	ND	U	0.60	10	10	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	ND	U	1.4	5.0	10	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	ND	U	1.0	10	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	ND	U	1.2	5.0	10	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	9.5	20	10	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	ND	U	1.1	10	10	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	ND	U	2.6	10	10	10/26/2006	10/26/2006	K1025W02	
Naphthalene	ND	U	1.0	10	10	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	ND	U	1.5	10	10	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	**4800**	D	14	50	100	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	**3600**	D	9.0	50	100	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	113	79-135	10/26/2006	
4-Bromofluorobenzene - SS	113	82-124	10/26/2006	
Dibromofluoromethane - SS	119	84-127	10/26/2006	
Toluene-d8 - SS	101	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D
Lab Smp Id: D0601625-007 Client Smp ID: T-53-GW11
Inj Date : 26-OCT-2006 10:06
Operator : X Inst ID: MSK.i
Smp Info : D0601625-007
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

10/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	9.719	9.733	(1.000)	1860736	10.0000	
*	2 Chlorobenzene-d5	117	13.065	13.065	(1.000)	1087096	10.0000	
*	3 1,4-Dichlorobenzene-d4	152	15.653	15.668	(1.000)	288889	10.0000	
$	4 Dibromofluoromethane	113	8.915	8.930	(0.917)	644789	11.9221	11.9
$	5 1,2-Dichloroethane-d4	65	9.332	9.331	(0.960)	625894	11.3168	11.3
$	6 Toluene-d8	98	11.474	11.473	(0.878)	1433165	10.1278	10.1
$	7 Bromofluorobenzene	174	14.330	14.329	(0.915)	325887	11.2903	11.3
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	10 Chloromethane	50	Compound Not Detected.					
	11 Vinyl chloride	62	Compound Not Detected.					
	12 Bromomethane	94	Compound Not Detected.					
	13 Chloroethane	64	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
	17 1,1-Dichloroethene	96	6.104	6.104	(0.628)	395221	10.9893	110
	18 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Methylene chloride	84	Compound Not Detected.					
	26 trans-1,2-Dichloroethene	96	7.145	7.145	(0.735)	22089	0.47873	4.79(a)
	27 tert-Butylmethylether	73	Compound Not Detected.					
	28 1,1-Dichloroethane	63	7.666	7.680	(0.789)	497569	5.45544	54.6
	30 Vinyl acetate	43	Compound Not Detected.					

12/6/06

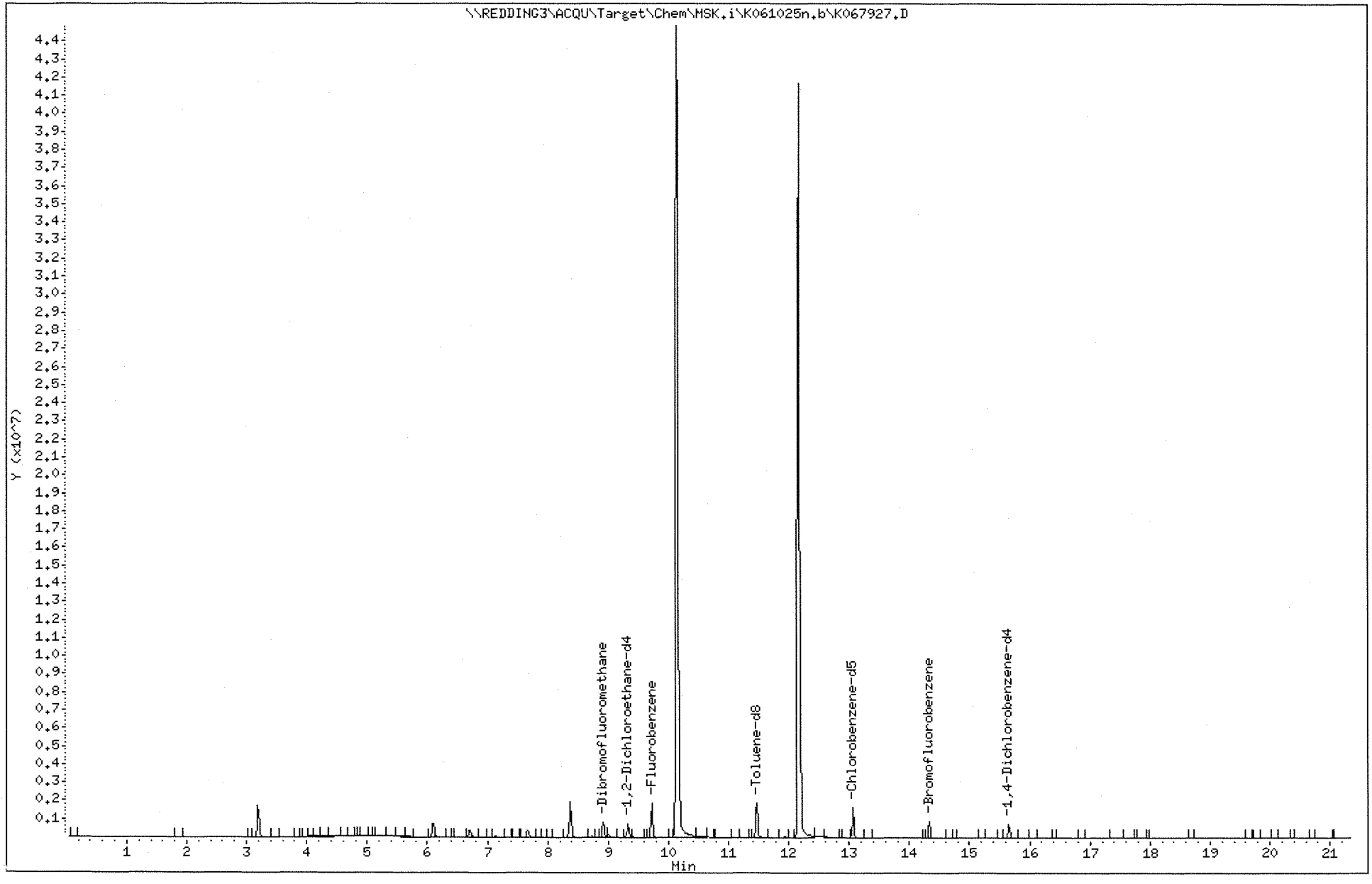
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.380	8.379	(0.862)	930588	18.0679	181
35	2-Butanone	43	8.350	8.350	(0.859)	7090	1.16290	~~11.6(aQ)~~
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.722	8.736	(0.897)	61633	0.64034	6.40
38	1,1,1-Trichloroethane	97	9.005	9.019	(0.927)	82972	1.28134	12.8(Q)
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	9.005	9.227	(0.927)	11578	0.22916	~~2.29(a)~~
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.421	9.421	(0.969)	21367	0.31931	3.19(a)
45	Trichloroethene	95	10.135	10.149	(1.043)	19465965	367.421	3670(A)
46	1,2-Dichloropropane	63	10.135	10.387	(1.043)	84734	1.52315	~~15.2(Q)~~
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	11.935	11.949	(0.913)	25530	0.68821	6.88
56	Tetrachloroethene	166	12.173	12.172	(0.932)	16532329	312.443	3120(A)
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	12.173	12.410	(0.932)	12205972	243.438	~~2430(AQ)~~
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	19.134	19.148	(1.222)	344	1.07745	10.8
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D
Date : 26-OCT-2006 10:06
Client ID: T-53-GW11
Sample Info: D0601625-007
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

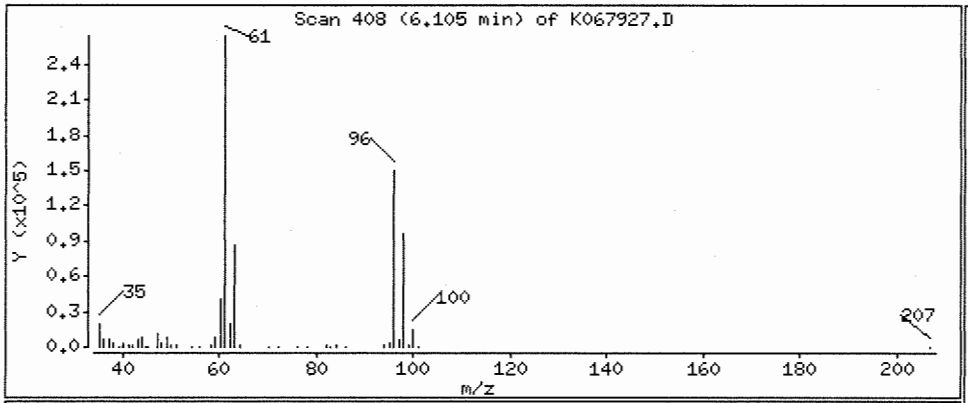
Client ID: T-53-GW11 Instrument: MSK.i

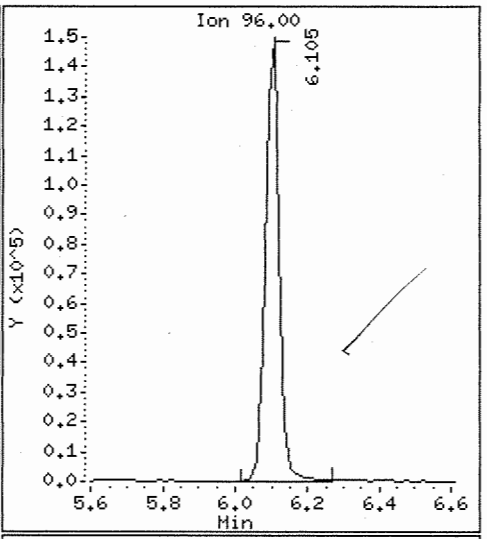
Sample Info: D0601625-007

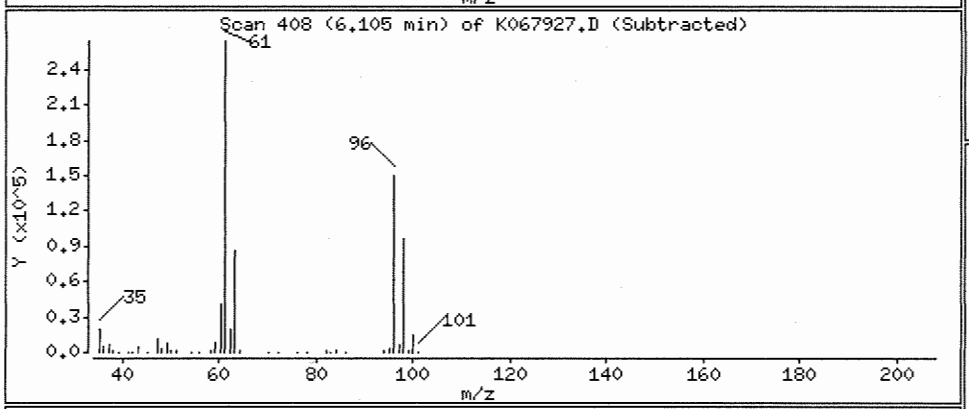
Purge Volume: 10.0 Operator: X

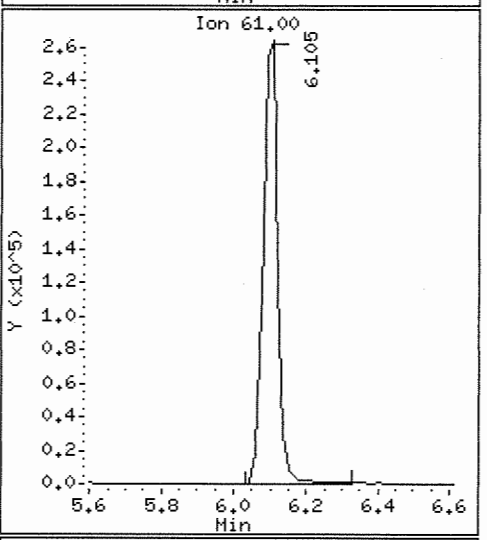
Column phase: DB-624 Column diameter: 0.32

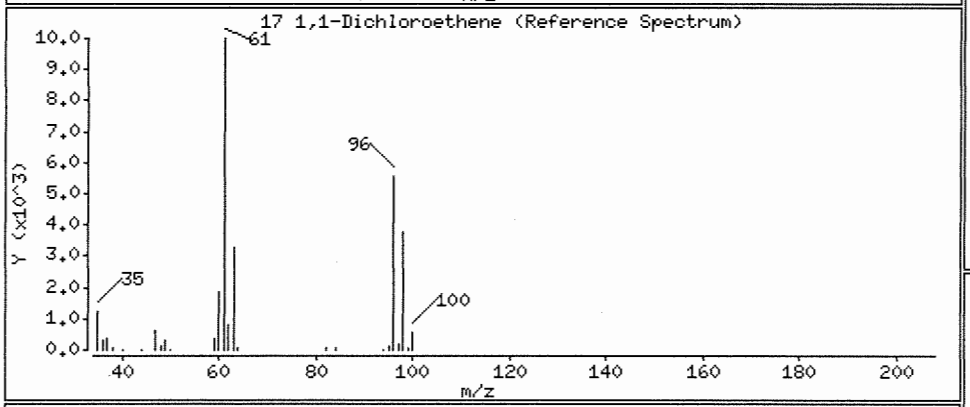
17 1,1-Dichloroethene Concentration: 110 ug/L

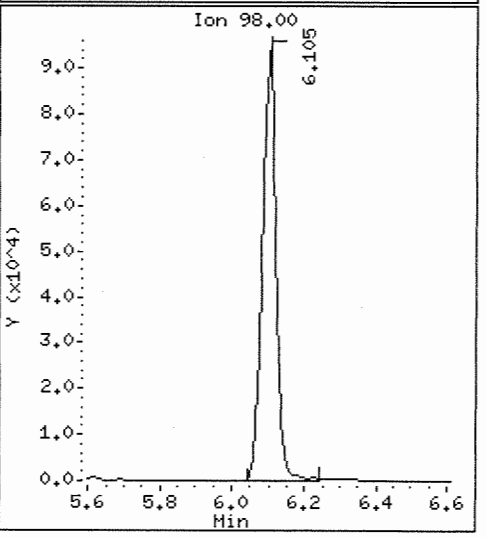


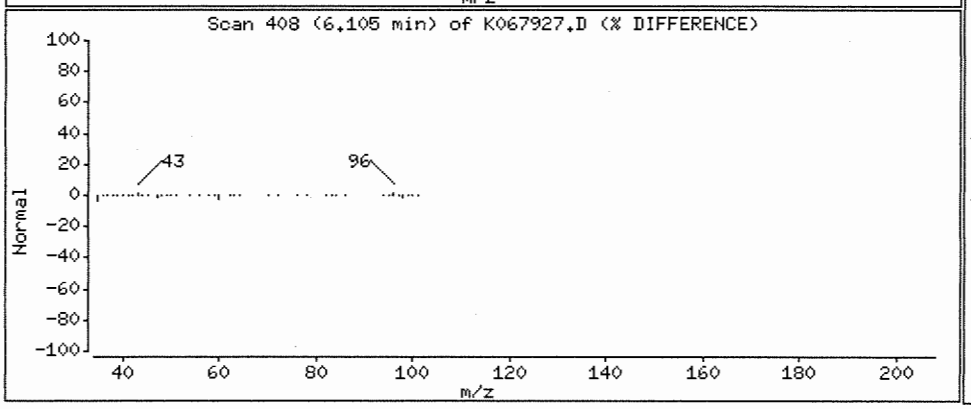












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Date : 26-OCT-2006 10:06

Client ID: T-53-GW11

Instrument: MSK.i

Sample Info: D0601625-007

Purge Volume: 10.0

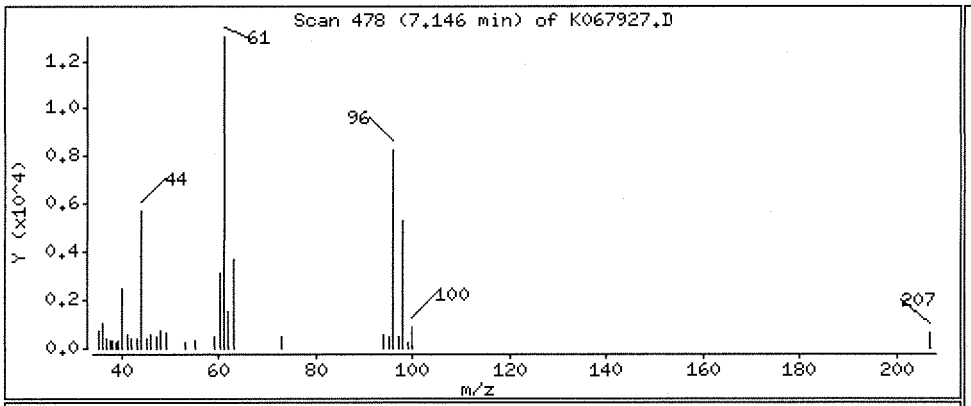
Operator: X

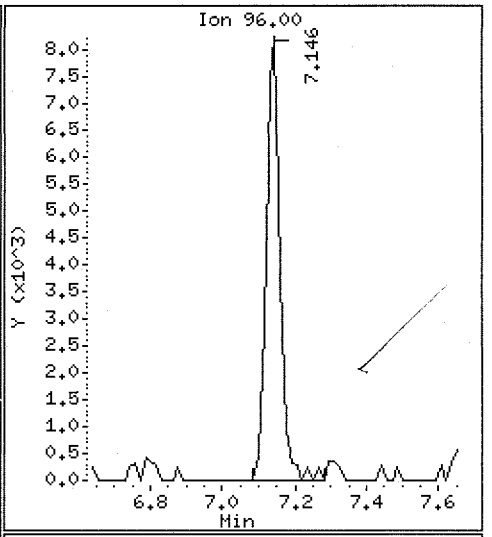
Column phase: DB-624

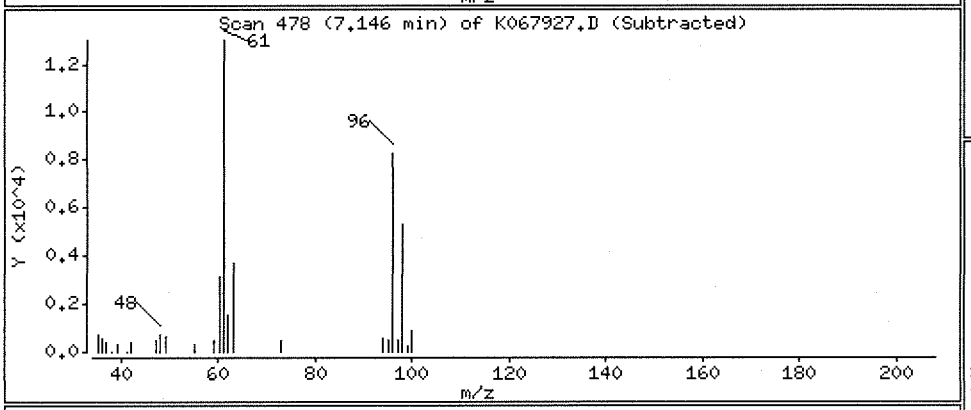
Column diameter: 0.32

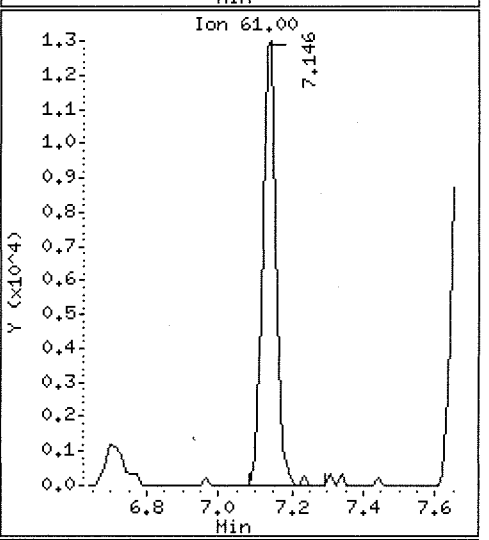
26 trans-1,2-Dichloroethene

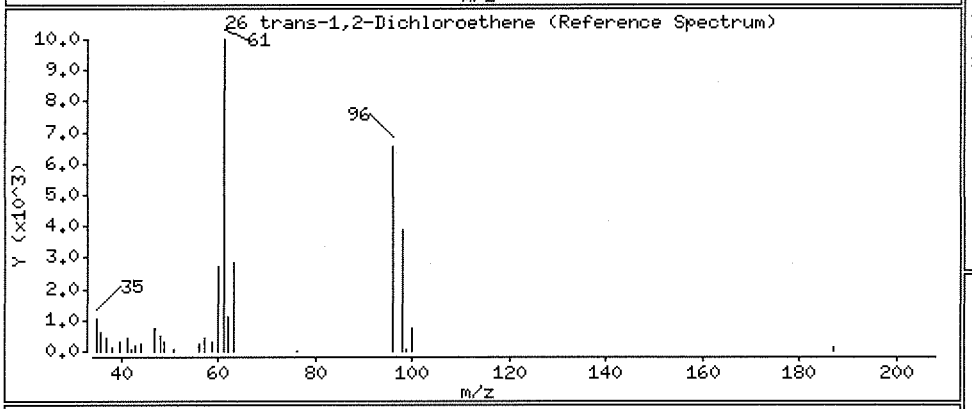
Concentration: 4.79 ug/L

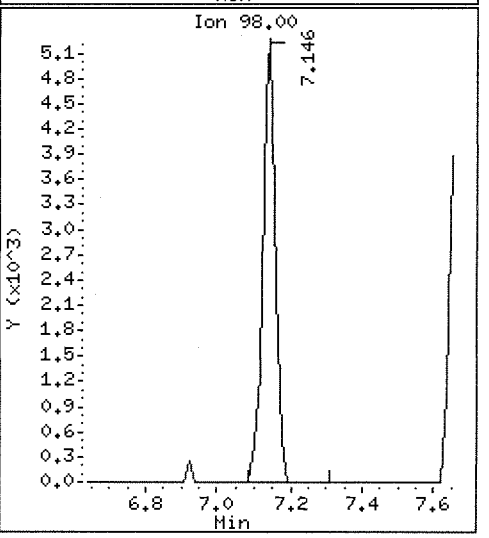


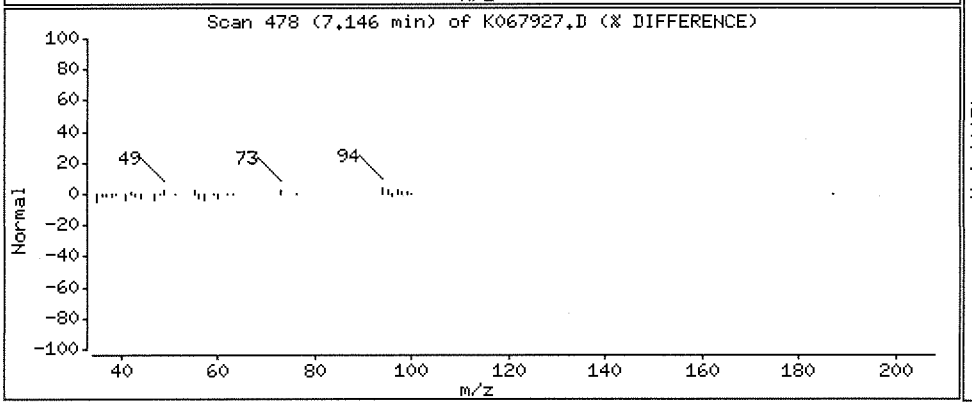












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Date : 26-OCT-2006 10:06

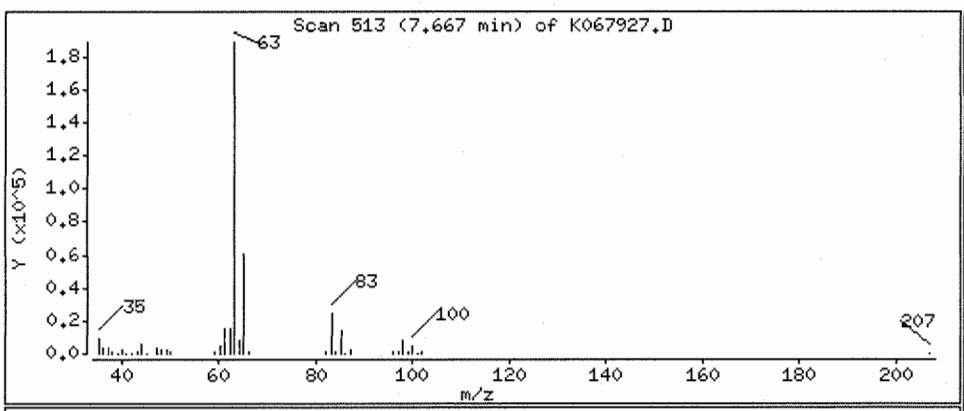
Client ID: T-53-GW11 Instrument: MSK.i

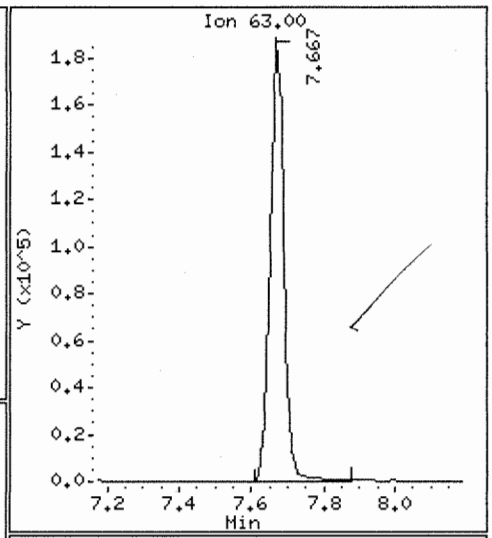
Sample Info: D0601625-007

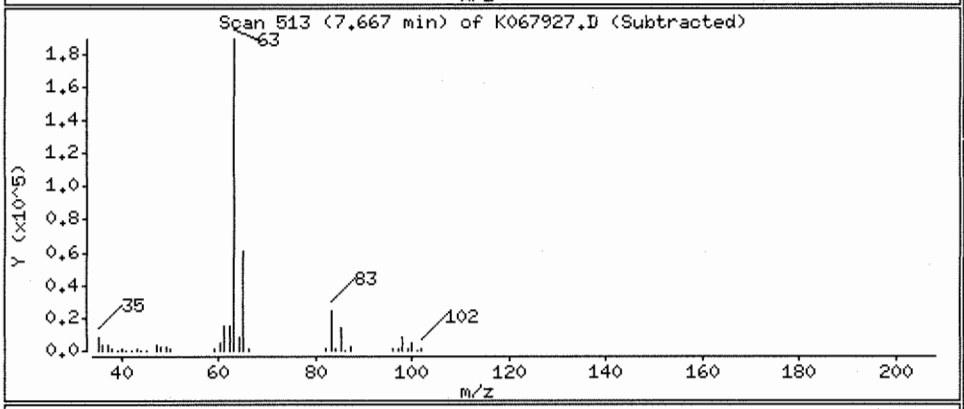
Purge Volume: 10.0 Operator: X

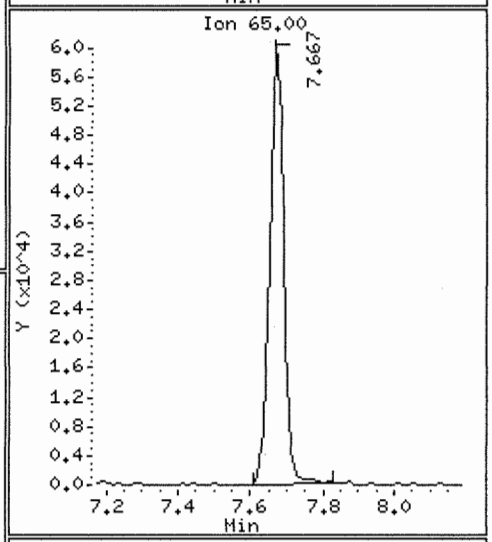
Column phase: DB-624 Column diameter: 0.32

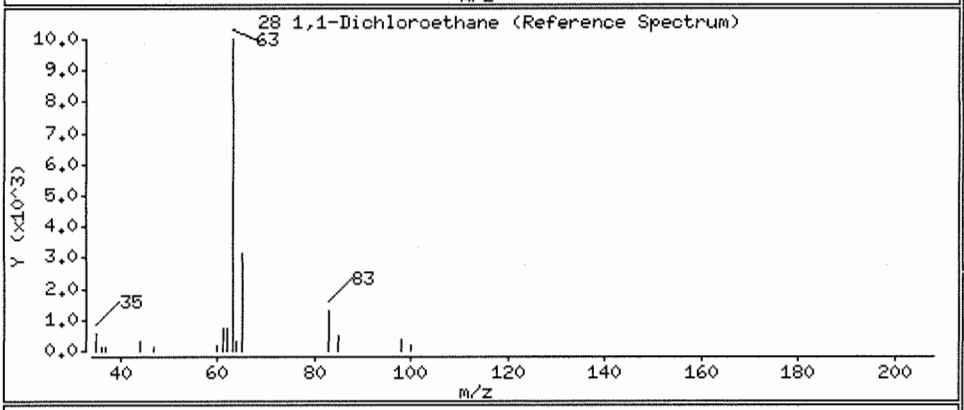
28 1,1-Dichloroethane Concentration: 54.6 ug/L

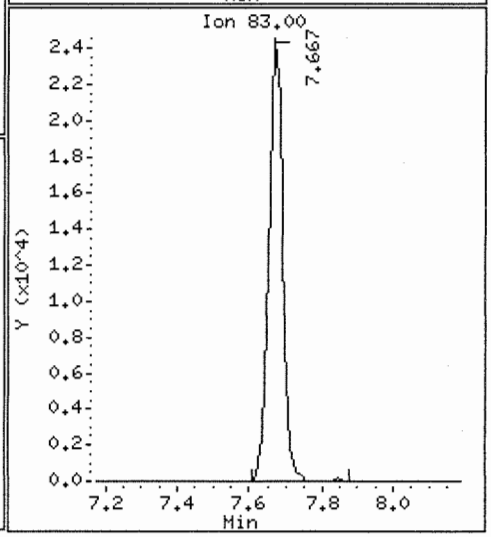


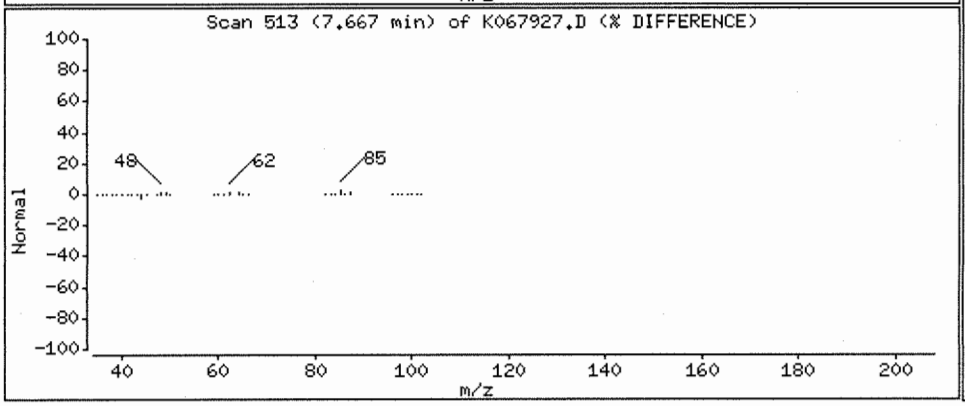












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Date : 26-OCT-2006 10:06

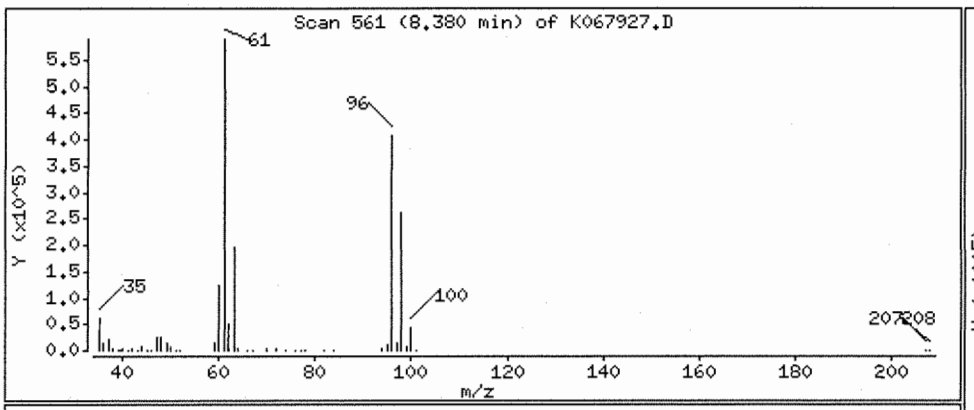
Client ID: T-53-GW11 Instrument: MSK.i

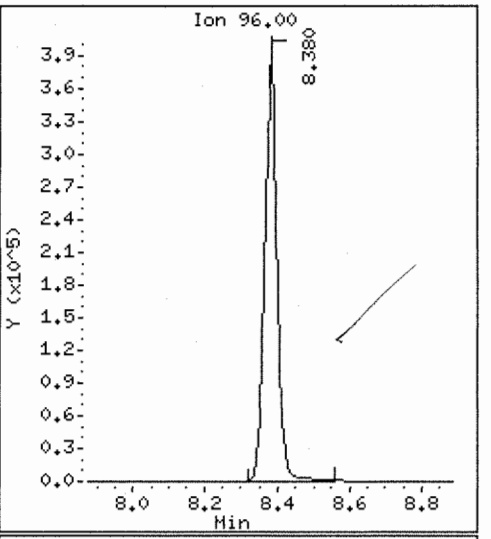
Sample Info: D0601625-007

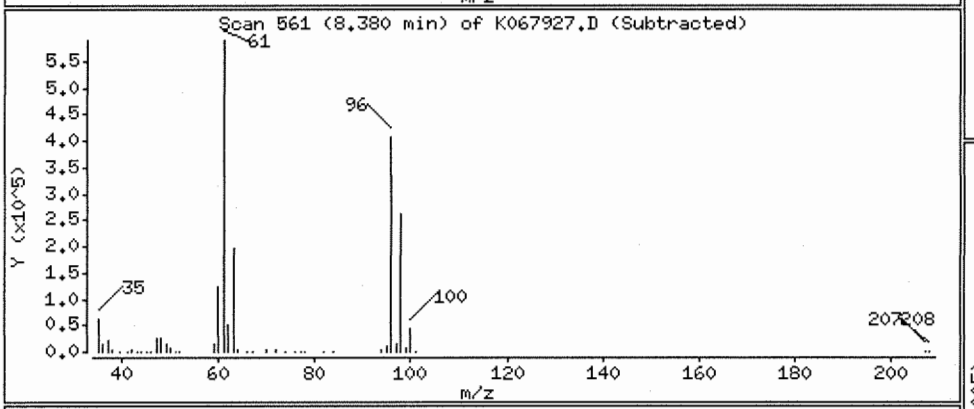
Purge Volume: 10.0 Operator: X

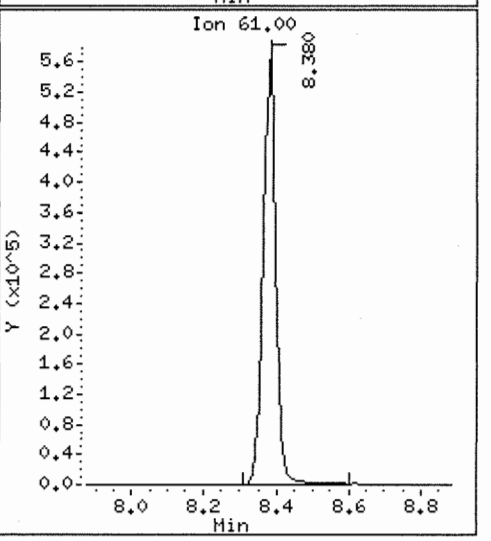
Column phase: DB-624 Column diameter: 0.32

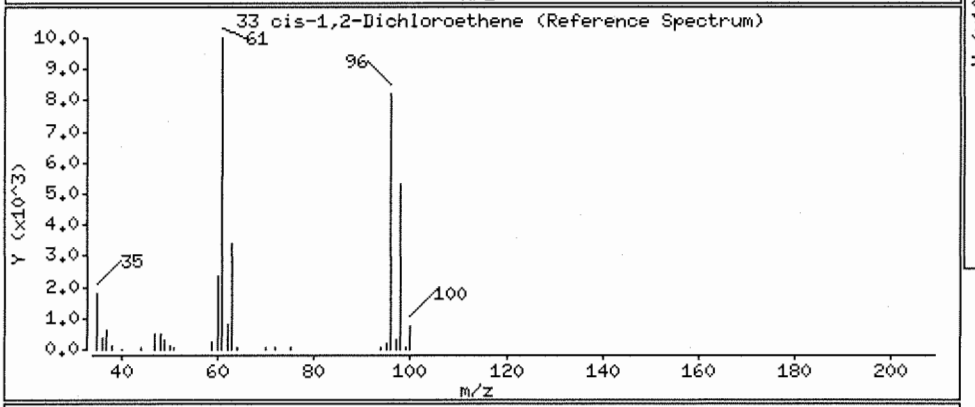
33 cis-1,2-Dichloroethene Concentration: 181 ug/L

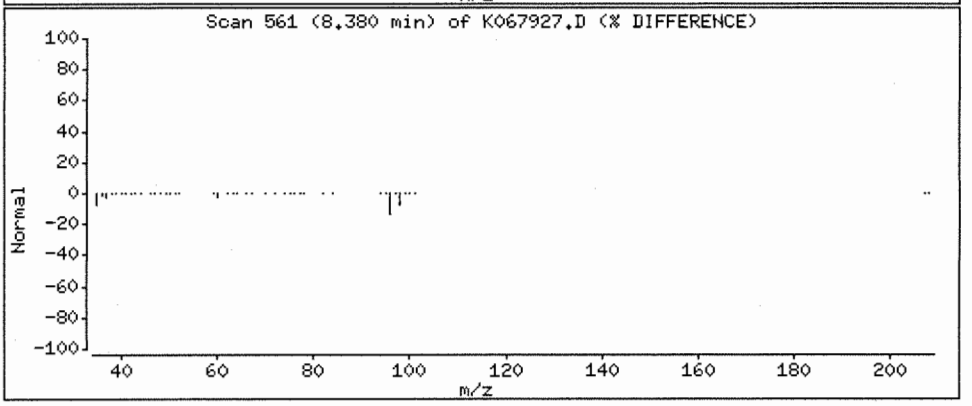












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

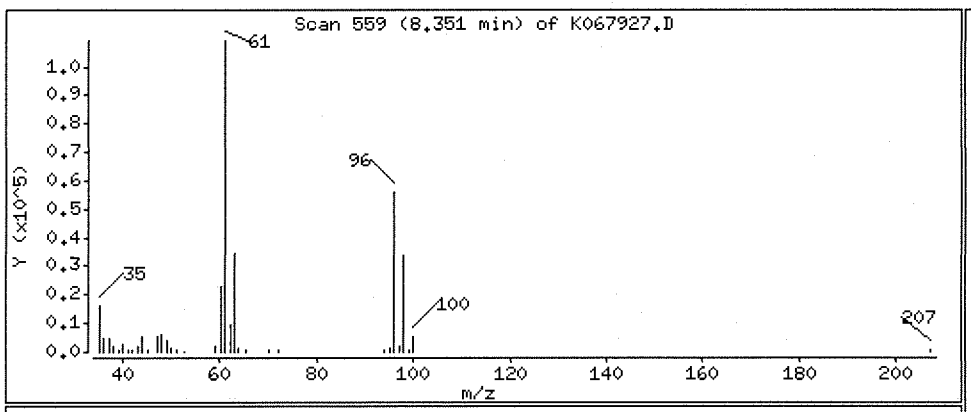
Client ID: T-53-GW11 Instrument: MSK.i

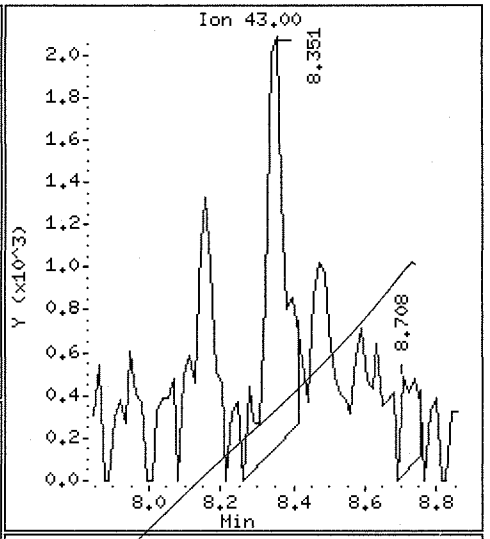
Sample Info: D0601625-007

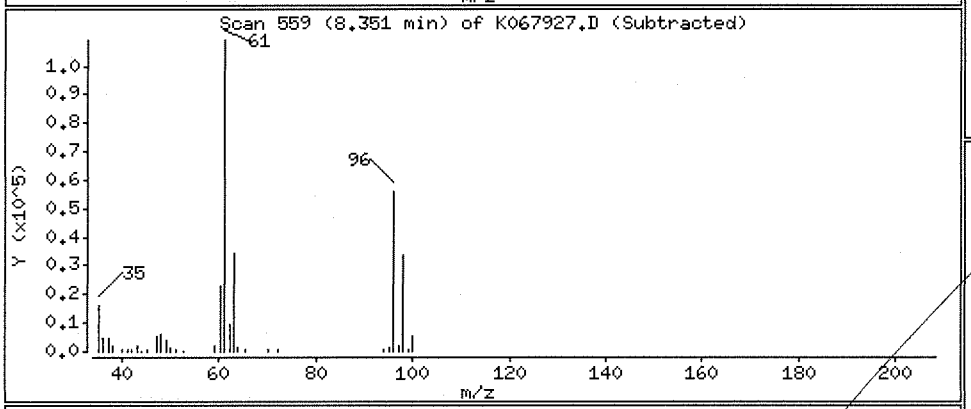
Purge Volume: 10.0 Operator: X

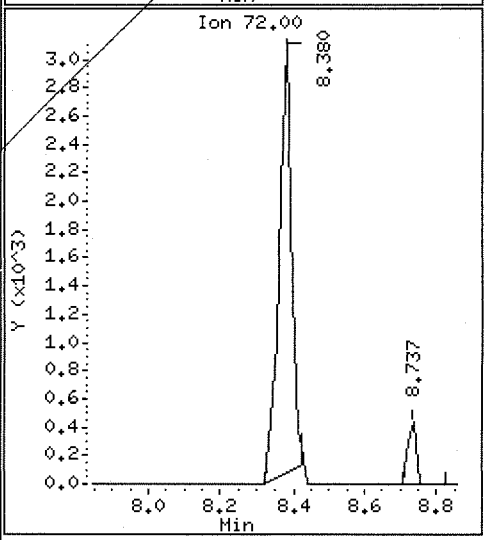
Column phase: DB-624 Column diameter: 0.32

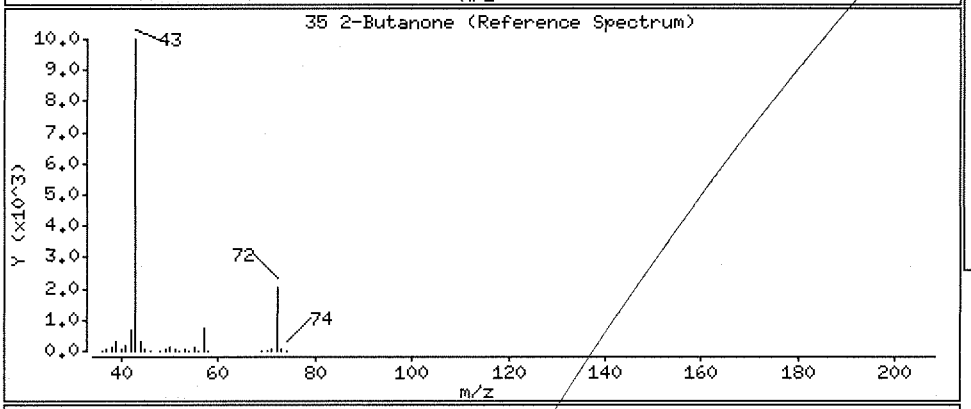
35 2-Butanone Concentration: 11.6 ug/L

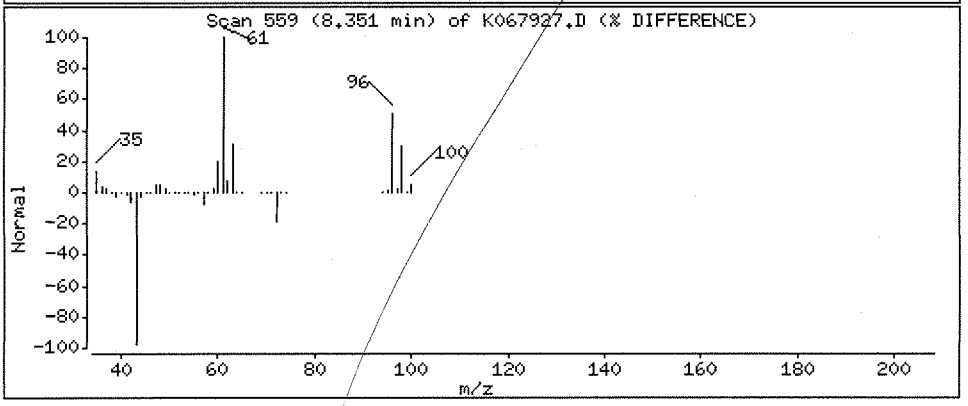












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

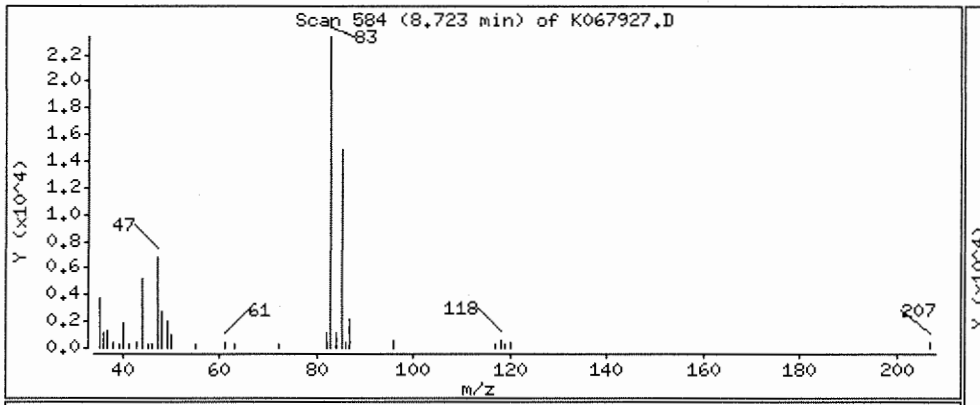
Client ID: T-53-GW11 Instrument: MSK.i

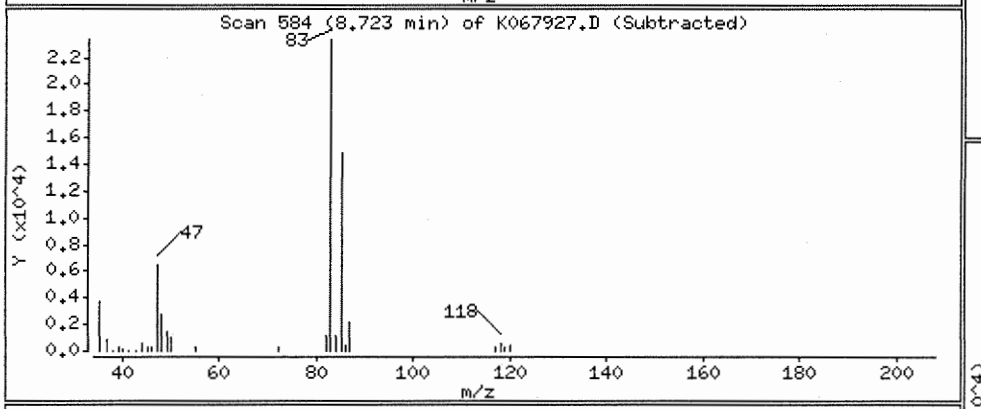
Sample Info: D0601625-007

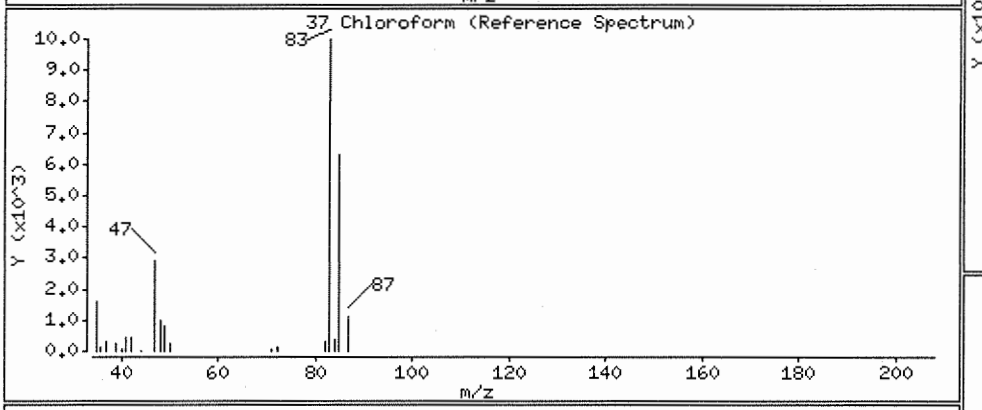
Purge Volume: 10.0 Operator: X

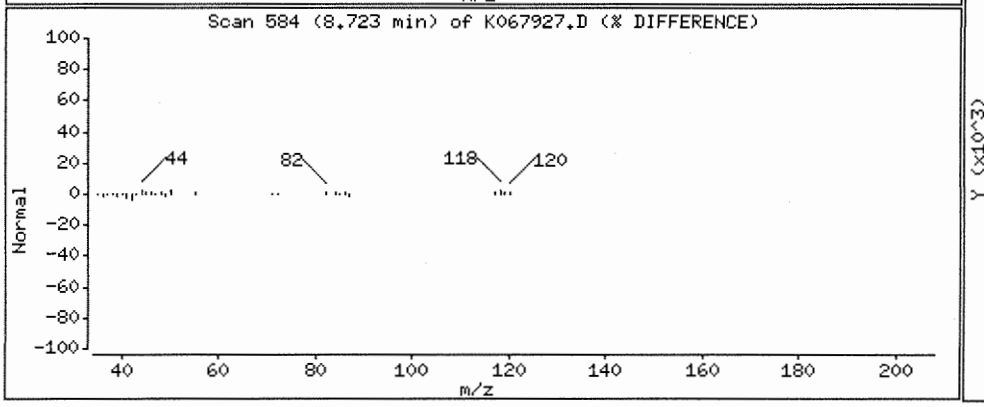
Column phase: DB-624 Column diameter: 0.32

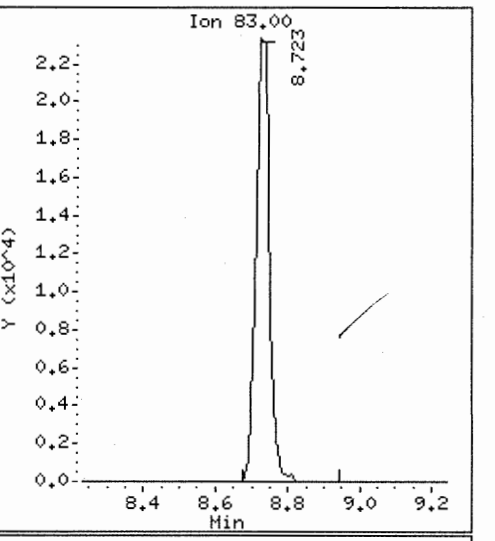
37 Chloroform Concentration: 6.40 ug/L

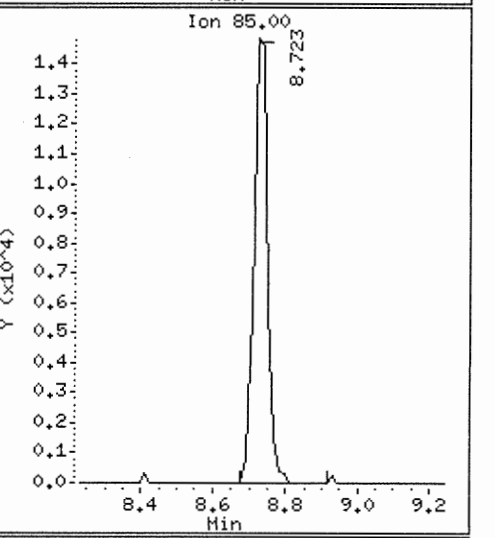


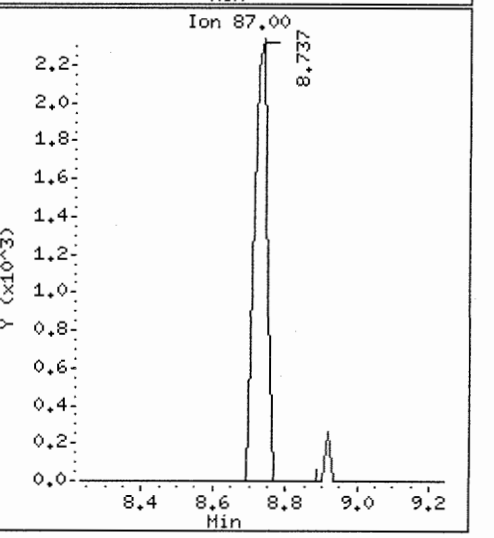












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

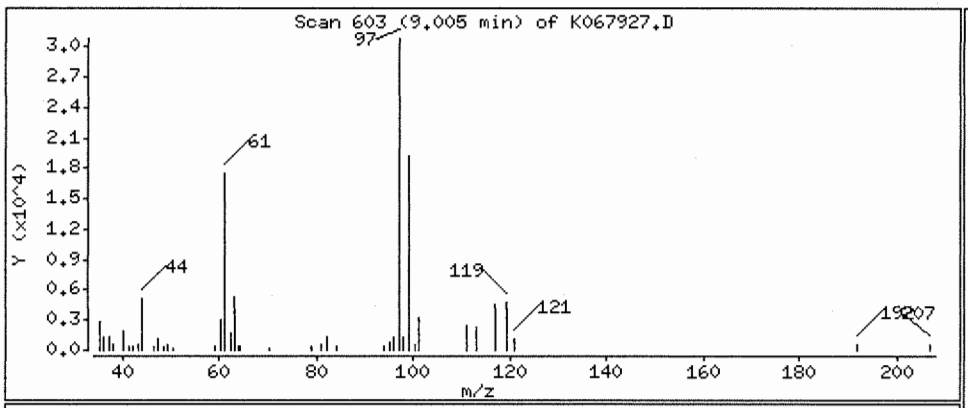
Client ID: T-53-GW11 Instrument: MSK.i

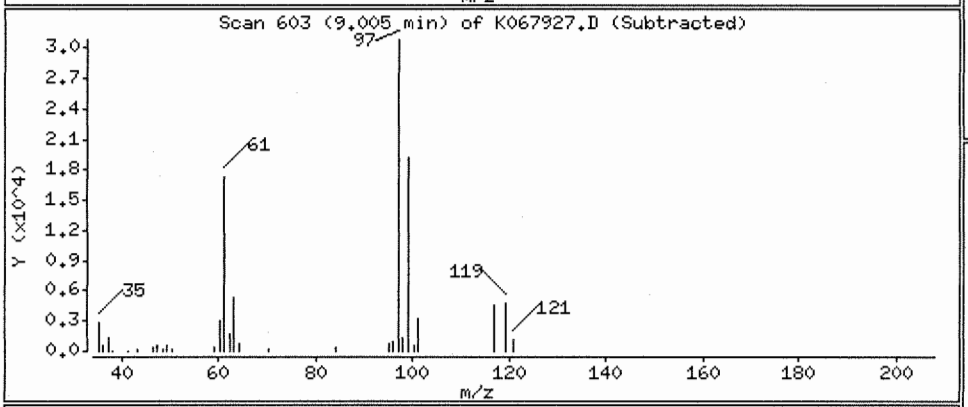
Sample Info: D0601625-007

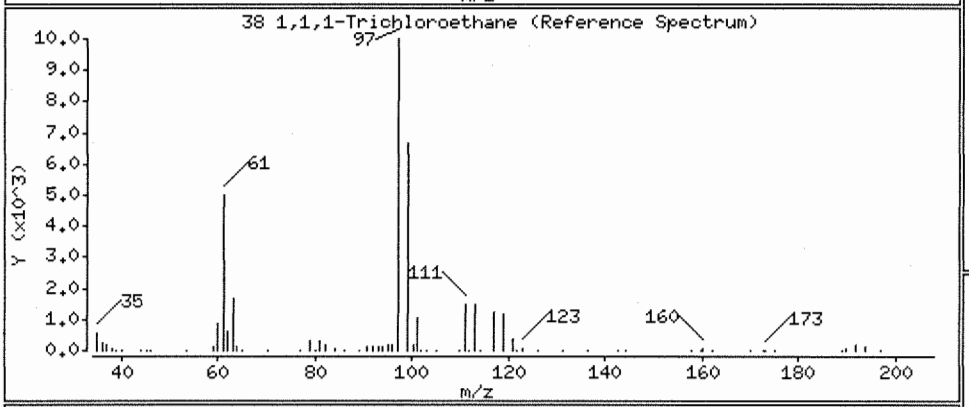
Purge Volume: 10.0 Operator: X

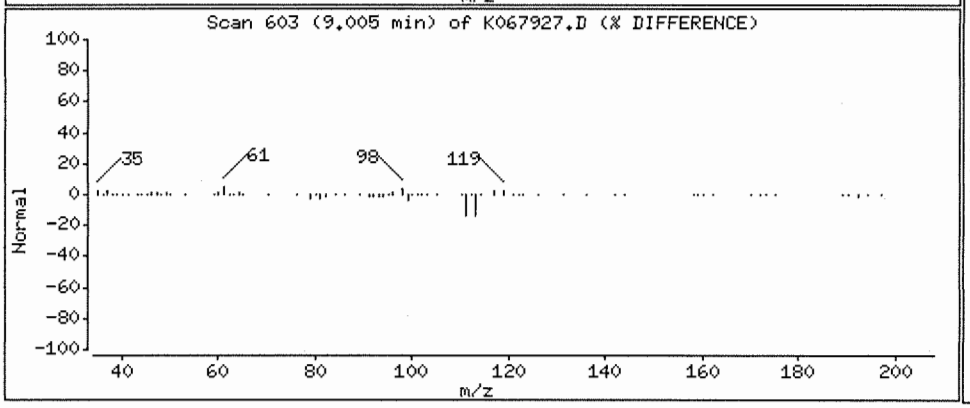
Column phase: DB-624 Column diameter: 0.32

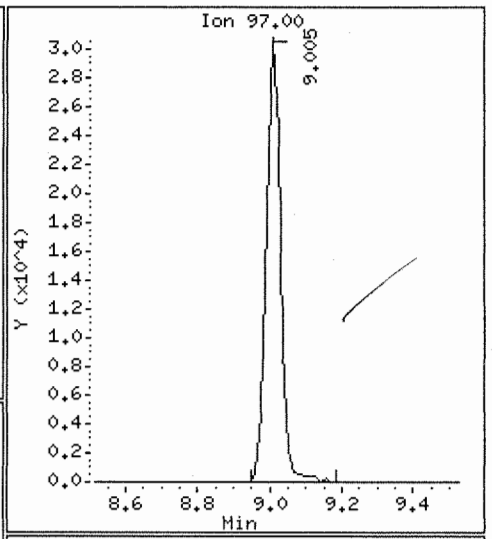
38 1,1,1-Trichloroethane Concentration: 12.8 ug/L

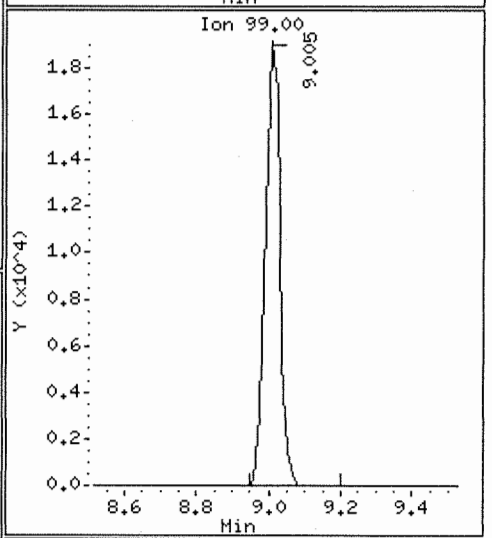


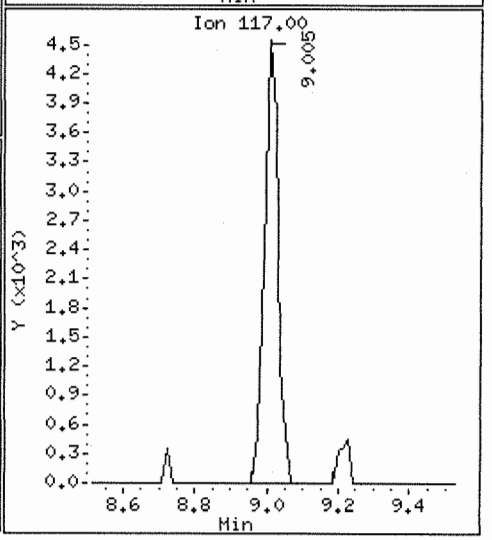












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

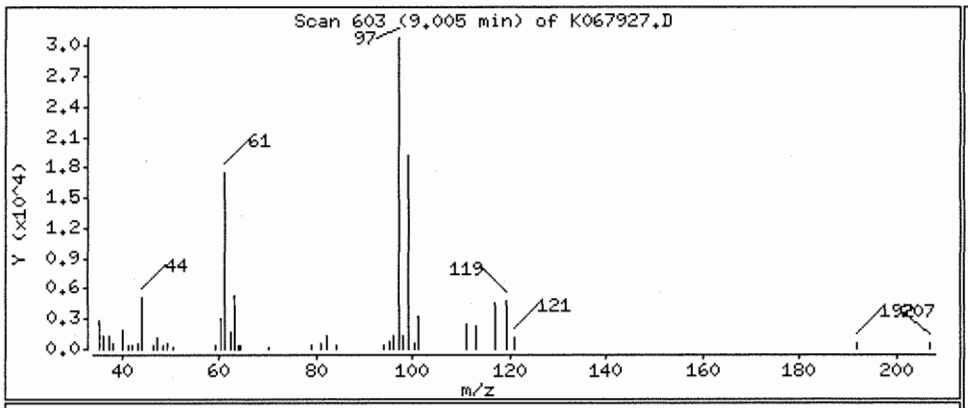
Client ID: T-53-GW11 Instrument: MSK.i

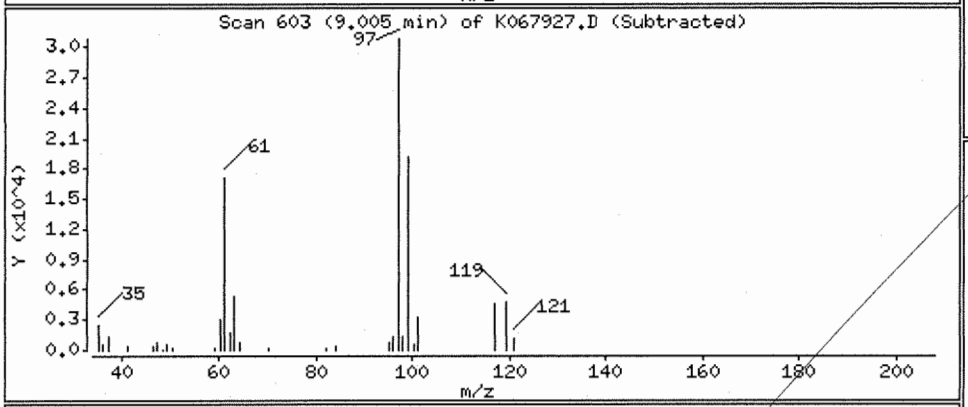
Sample Info: D0601625-007

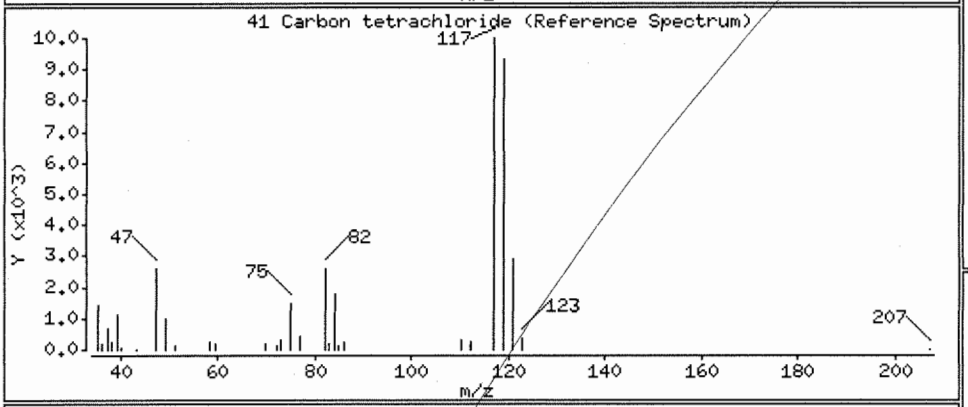
Purge Volume: 10.0 Operator: X

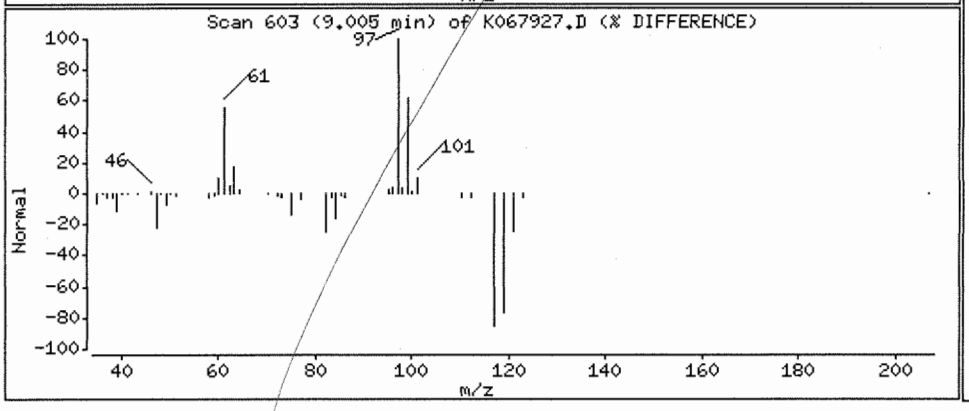
Column phase: DB-624 Column diameter: 0.32

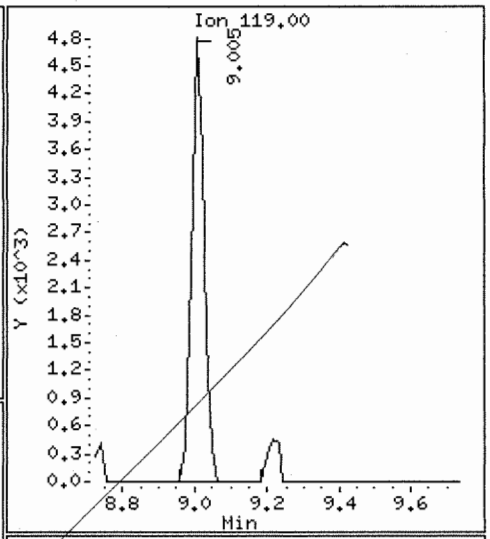
41 Carbon tetrachloride Concentration: 2.29 ug/L

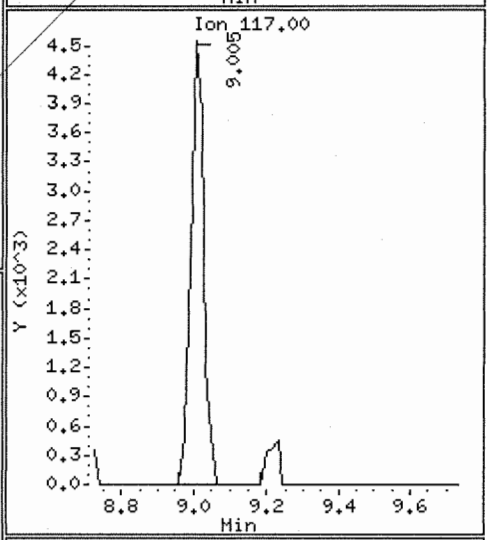


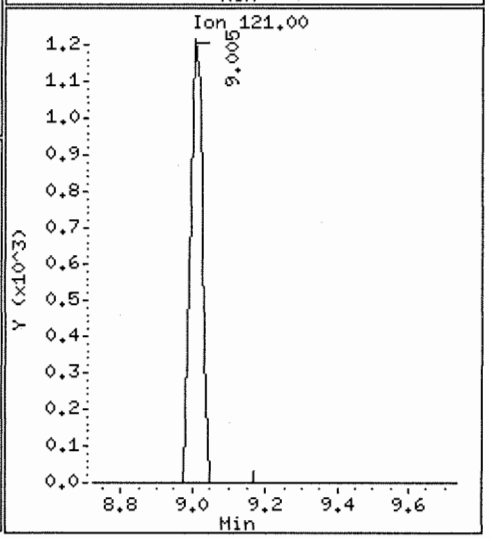












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

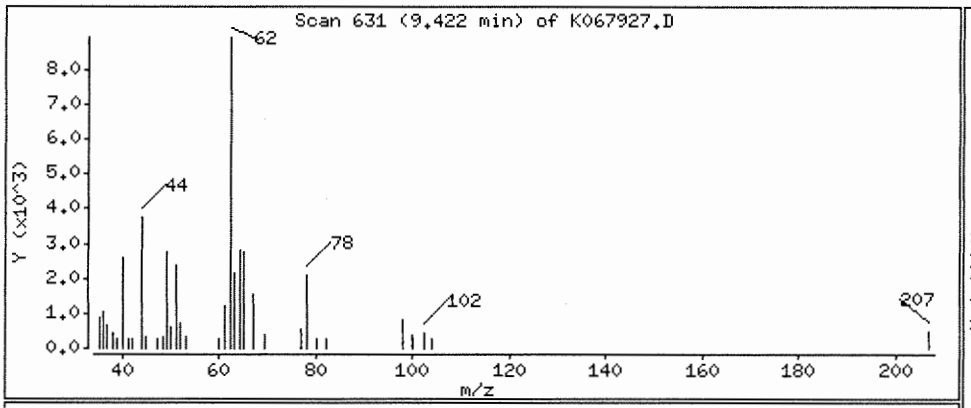
Client ID: T-53-GW11 Instrument: MSK.i

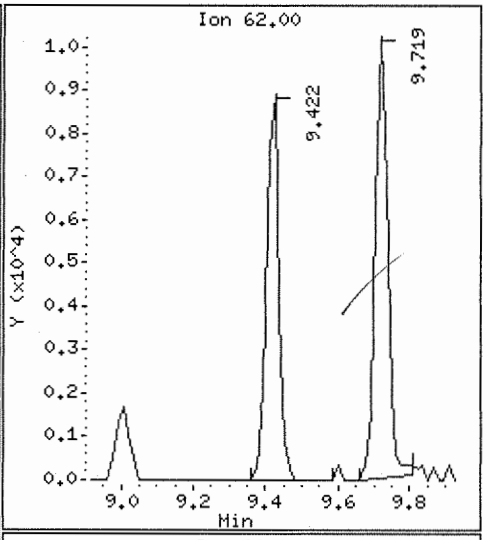
Sample Info: D0601625-007

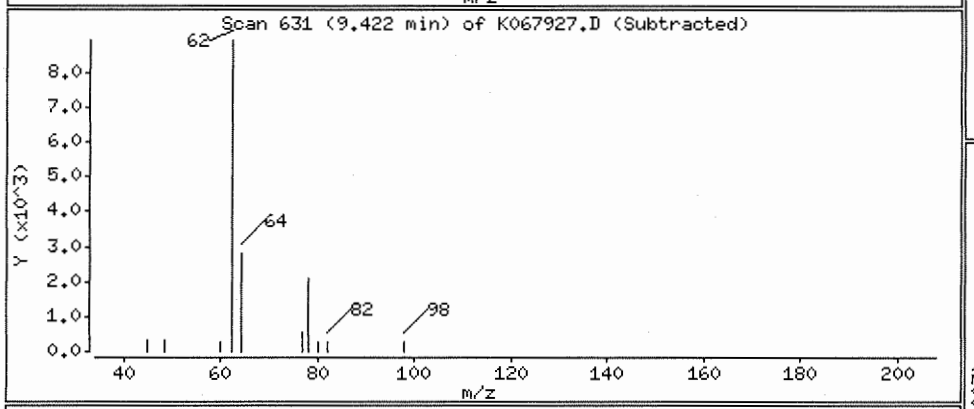
Purge Volume: 10.0 Operator: X

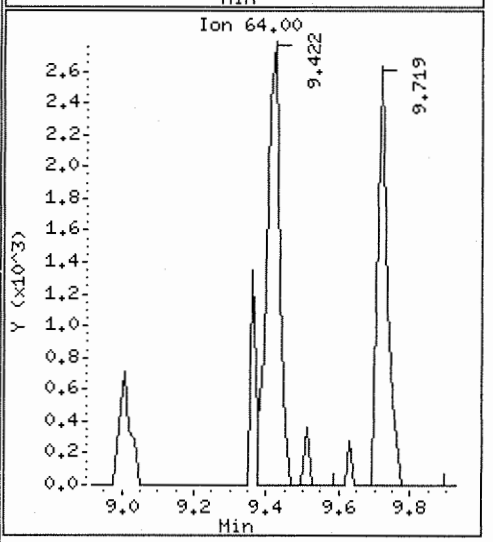
Column phase: DB-624 Column diameter: 0.32

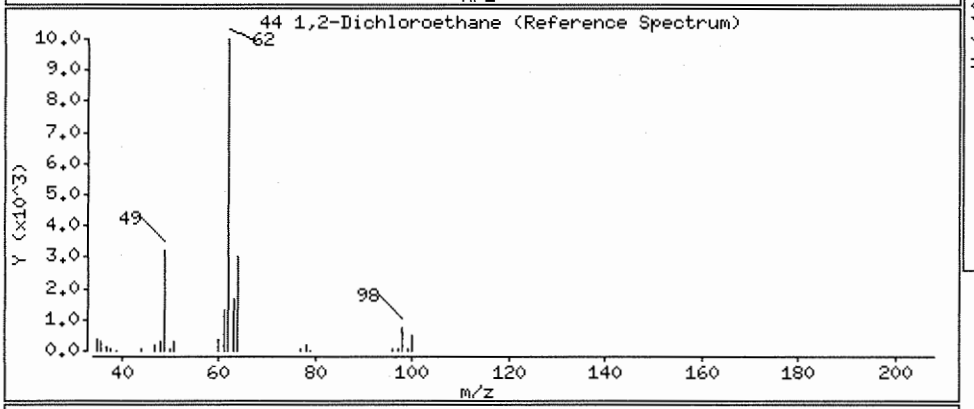
44 1,2-Dichloroethane Concentration: 3.19 ug/L

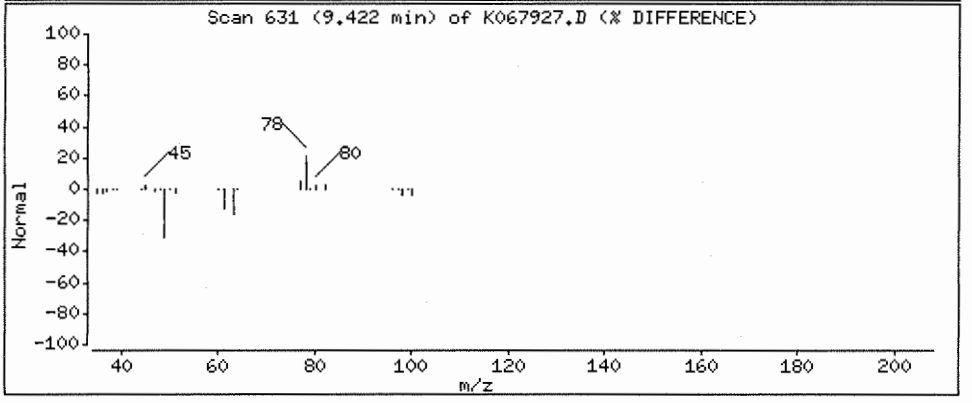












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

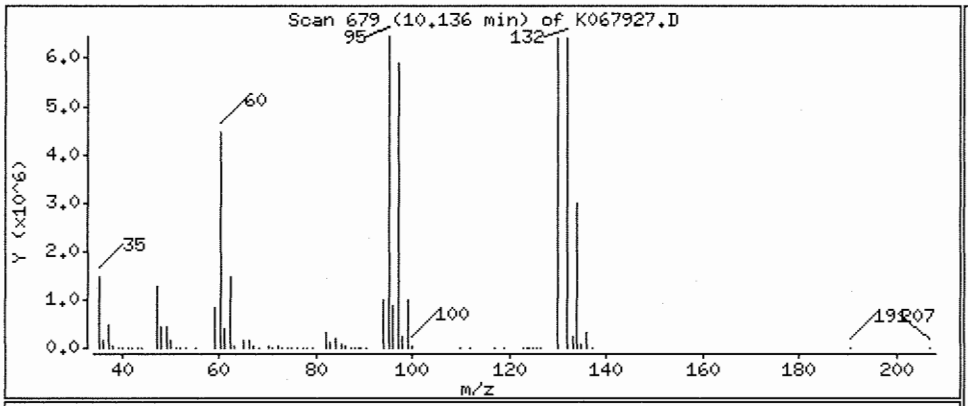
Client ID: T-53-GW11 Instrument: MSK.i

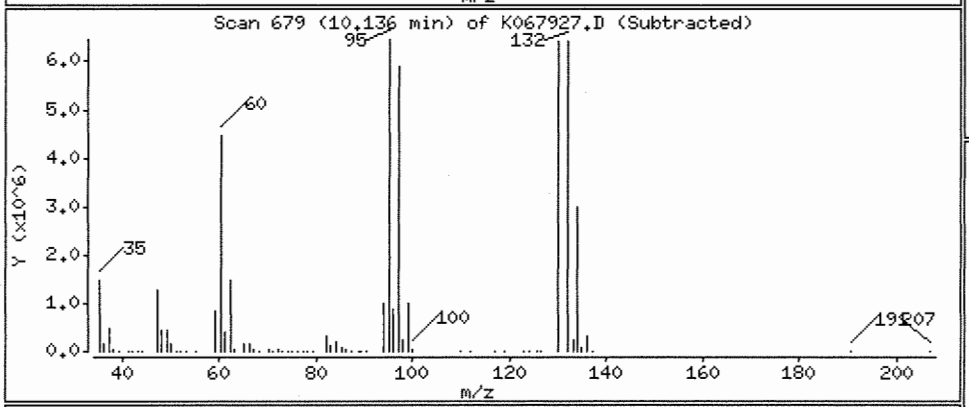
Sample Info: D0601625-007

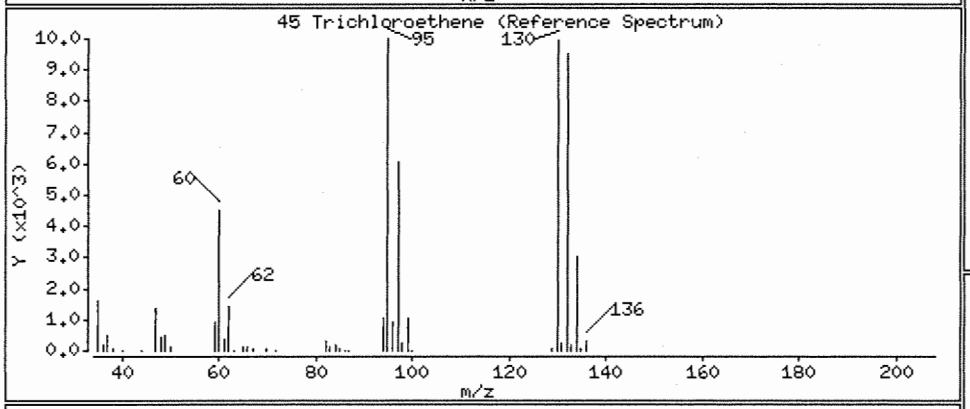
Purge Volume: 10.0 Operator: X

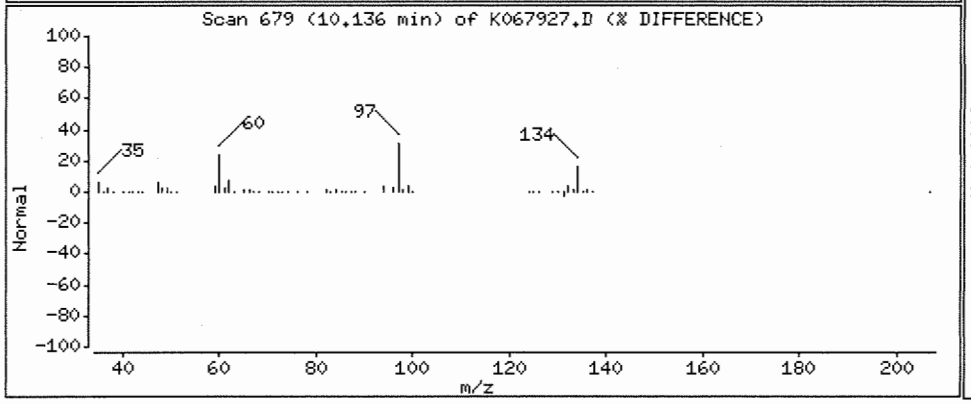
Column phase: DB-624 Column diameter: 0.32

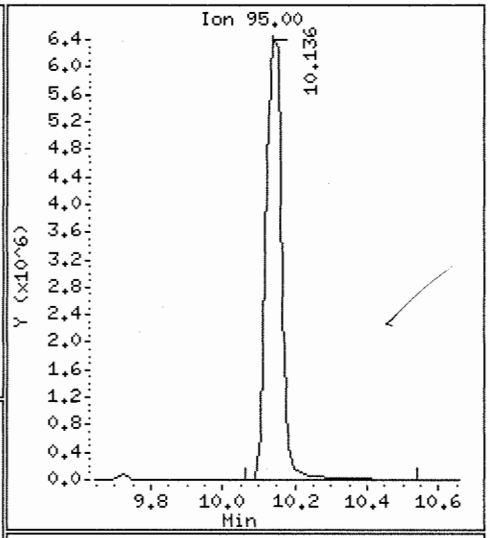
45 Trichloroethene Concentration: 3670 ug/L

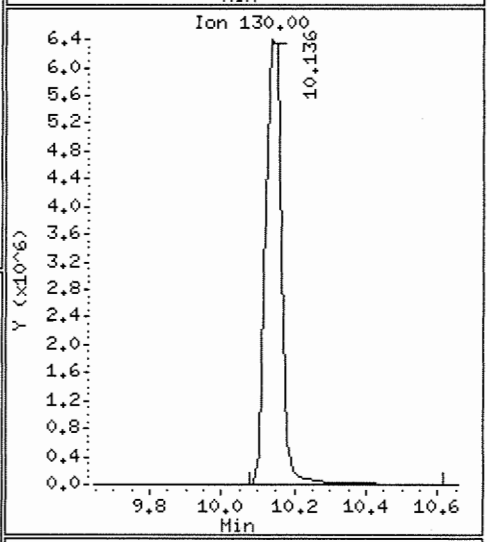


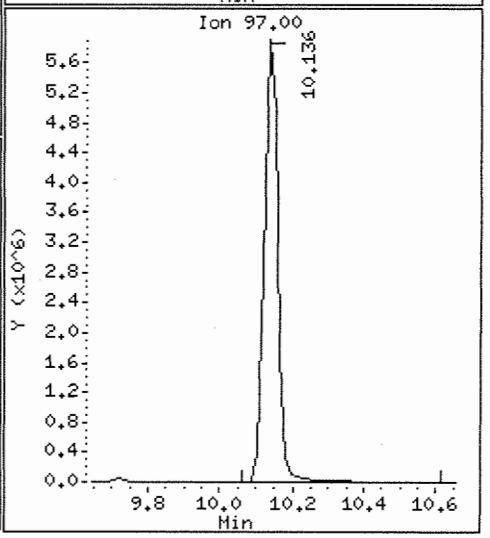












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

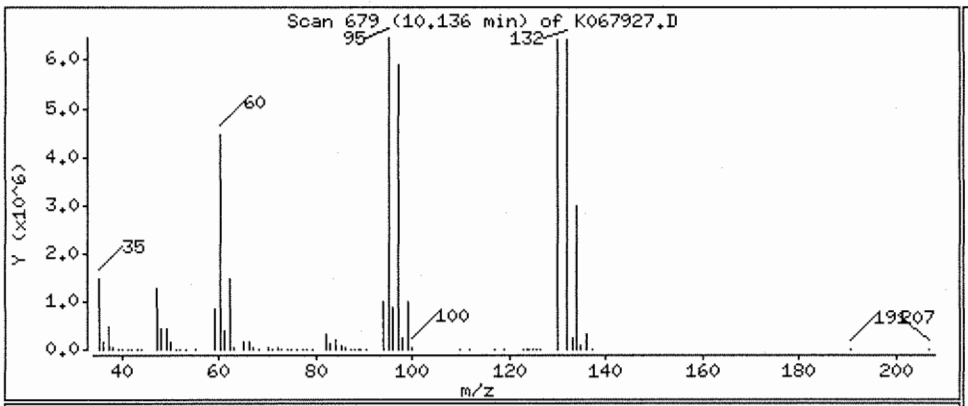
Client ID: T-53-GW11 Instrument: MSK.i

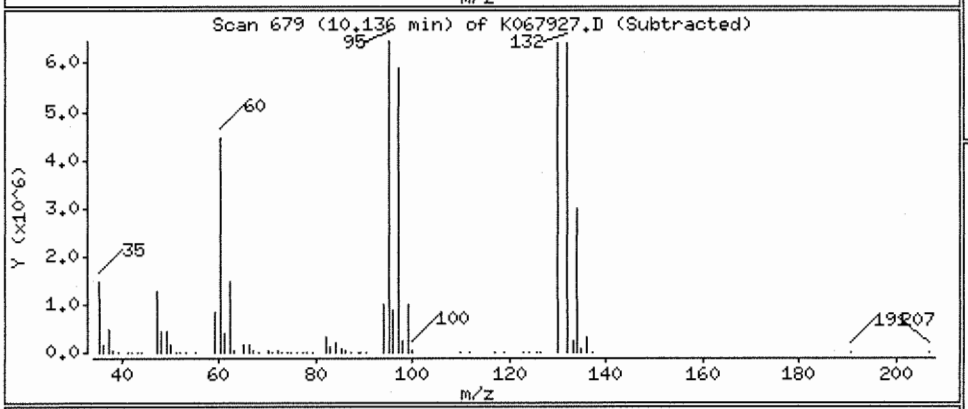
Sample Info: D0601625-007

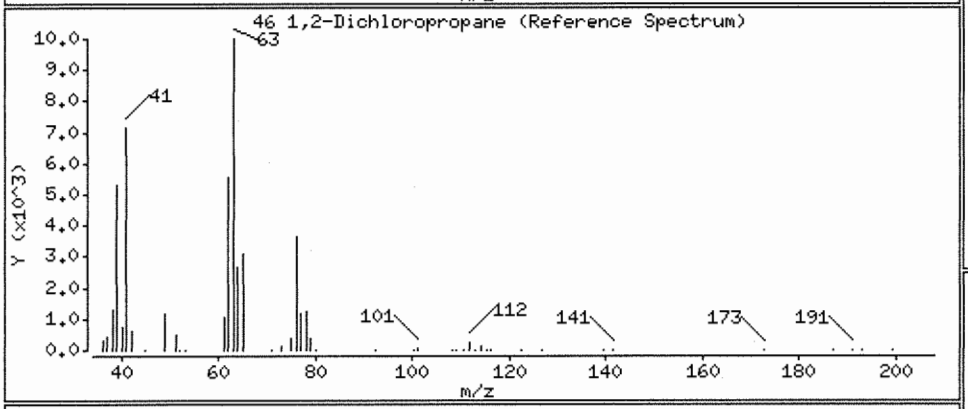
Purge Volume: 10.0 Operator: X

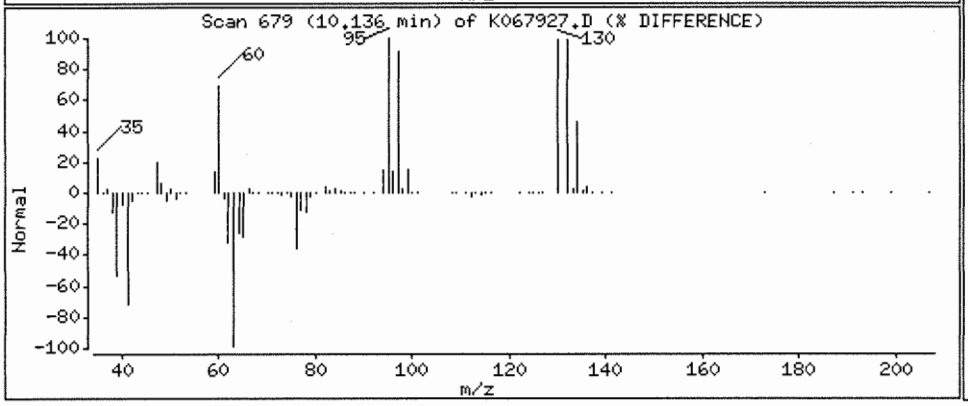
Column phase: DB-624 Column diameter: 0.32

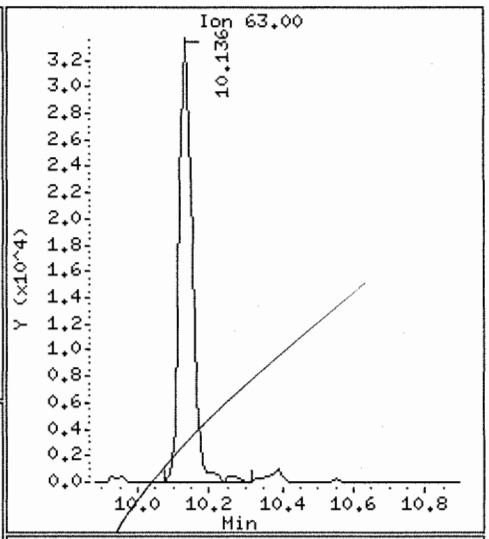
46 1,2-Dichloropropane Concentration: 15.2 ug/L

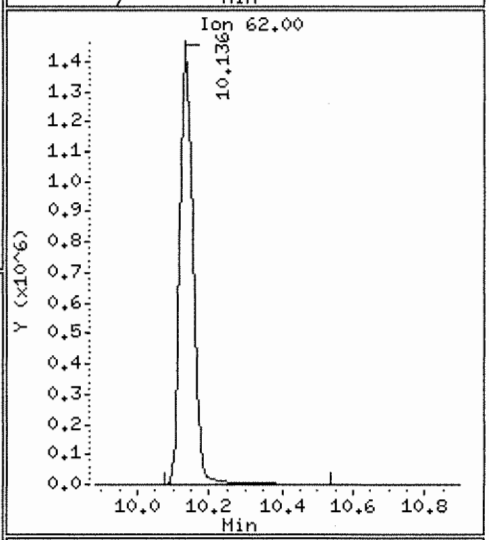


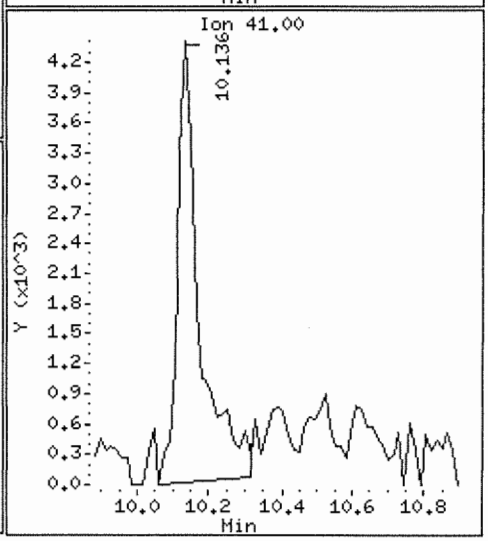












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

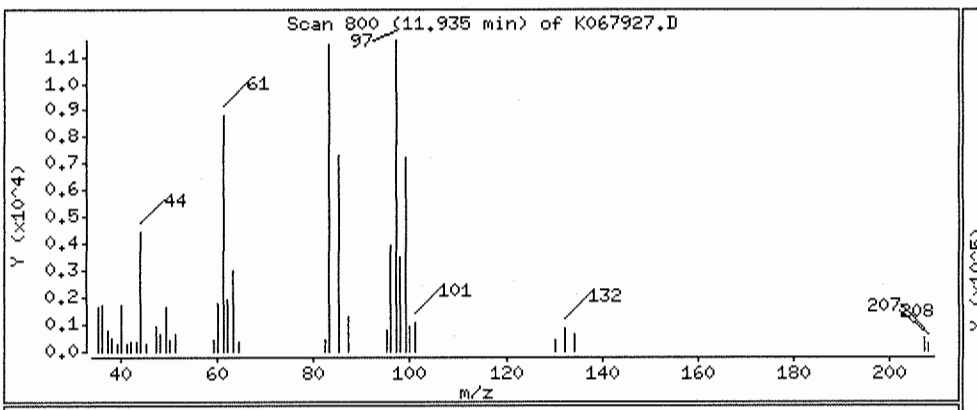
Client ID: T-53-GW11 Instrument: MSK.i

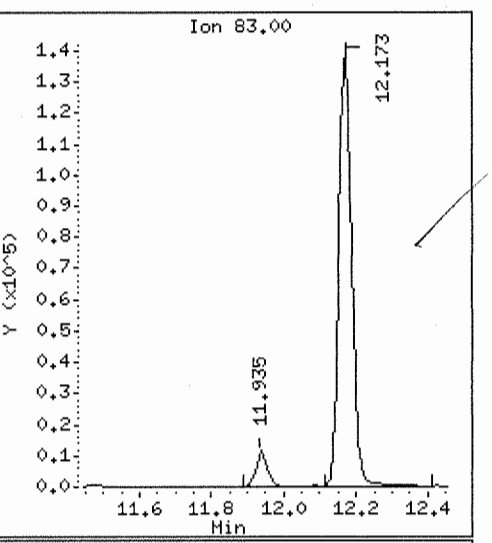
Sample Info: D0601625-007

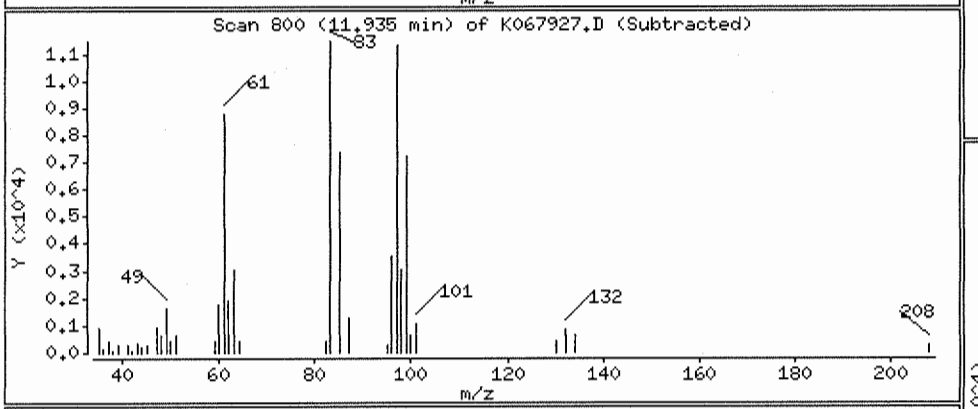
Purge Volume: 10.0 Operator: X

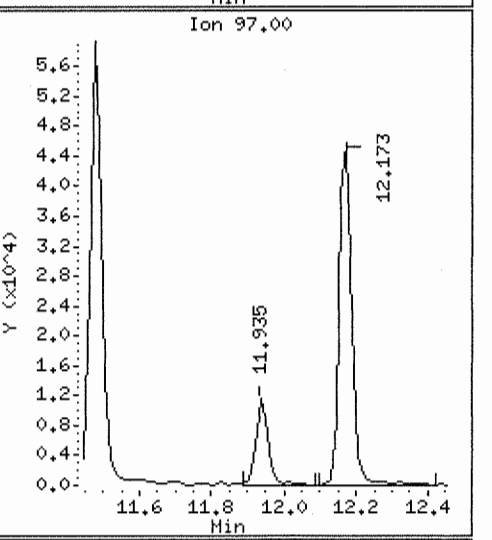
Column phase: DB-624 Column diameter: 0.32

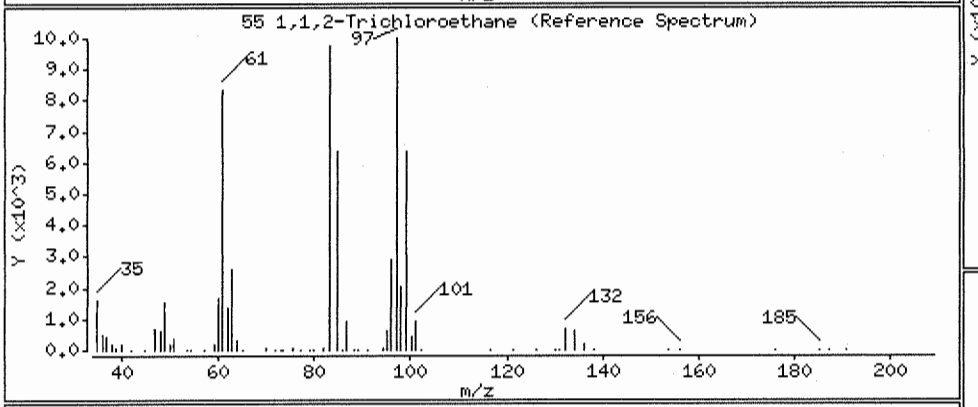
55 1,1,2-Trichloroethane Concentration: 6.88 ug/L

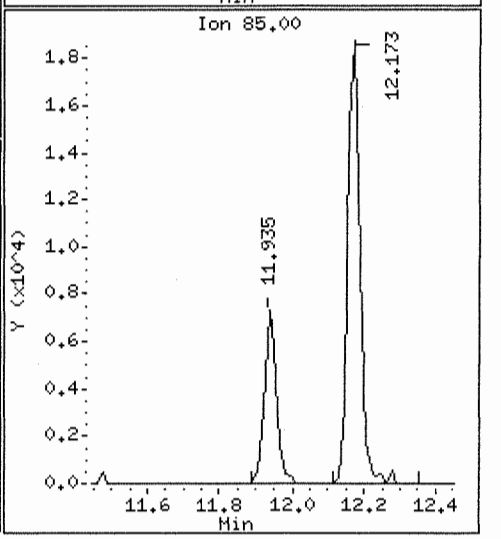


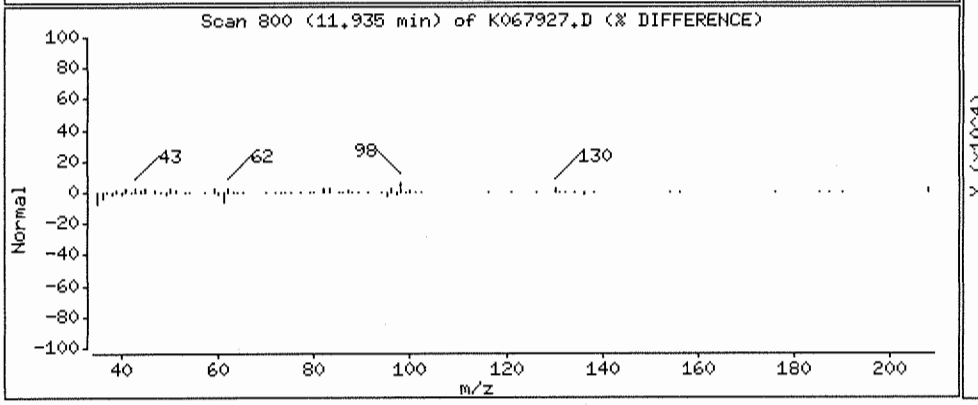












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

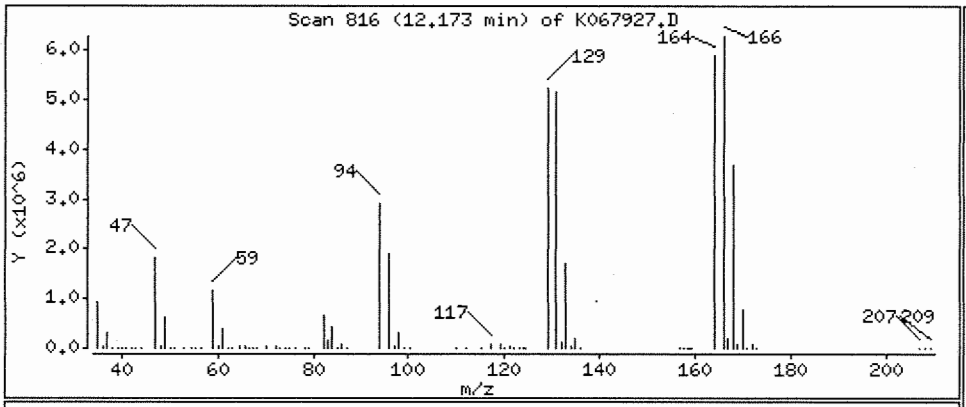
Client ID: T-53-GW11 Instrument: MSK.i

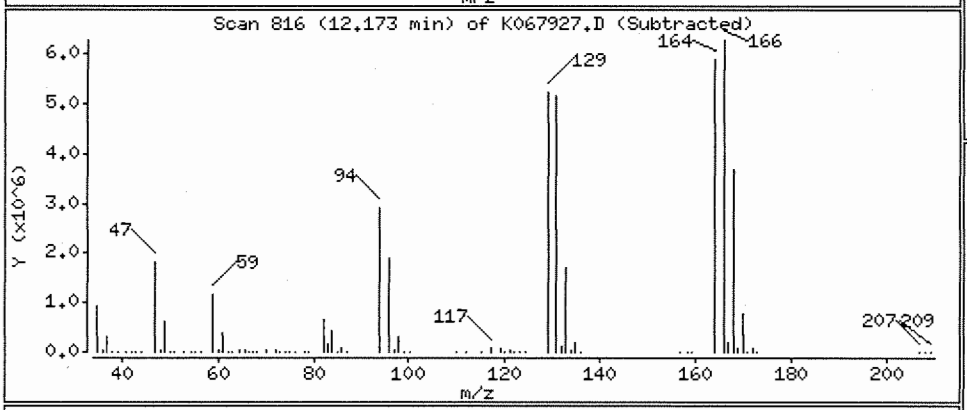
Sample Info: D0601625-007

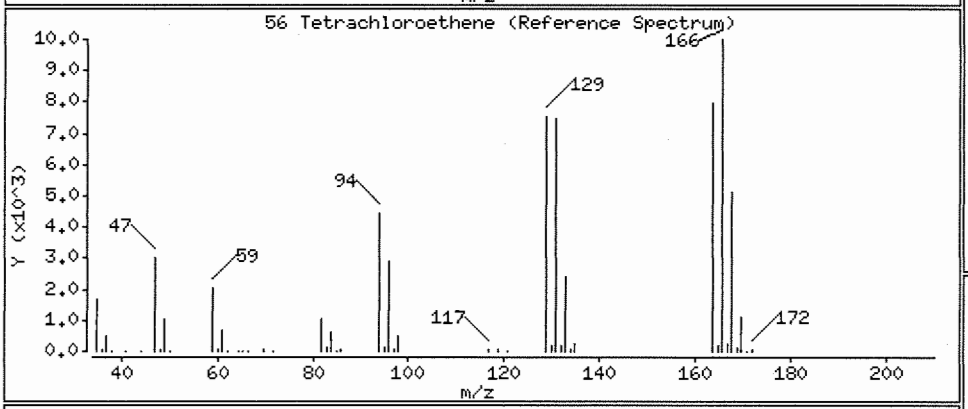
Purge Volume: 10.0 Operator: X

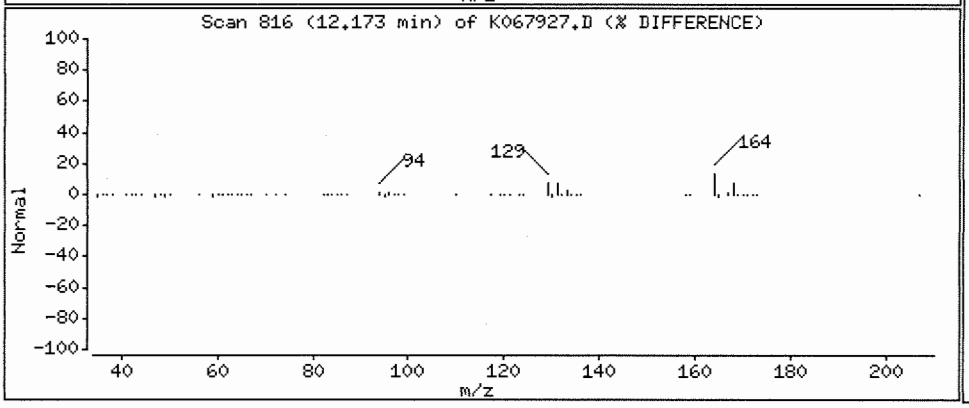
Column phase: DB-624 Column diameter: 0.32

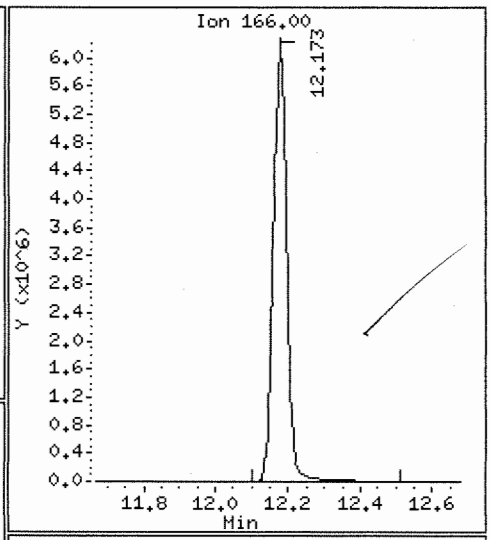
56 Tetrachloroethene Concentration: 3120 ug/L

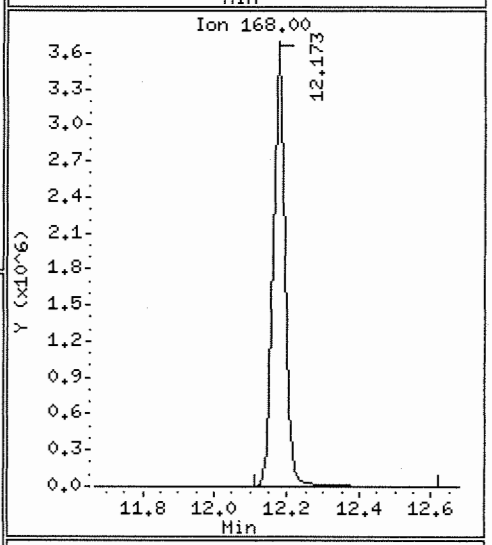


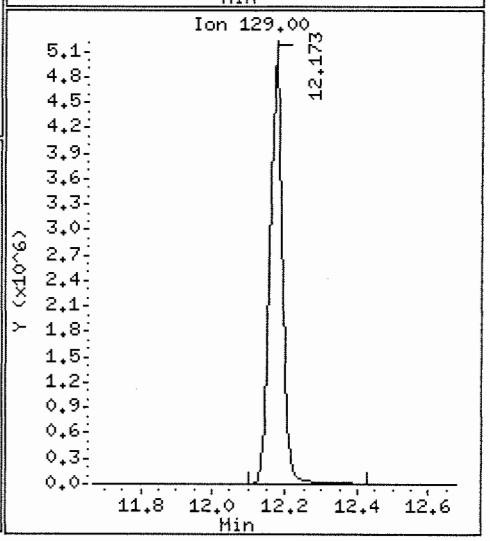












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

Client ID: T-53-GW11

Instrument: MSK.i

Sample Info: D0601625-007

Purge Volume: 10.0

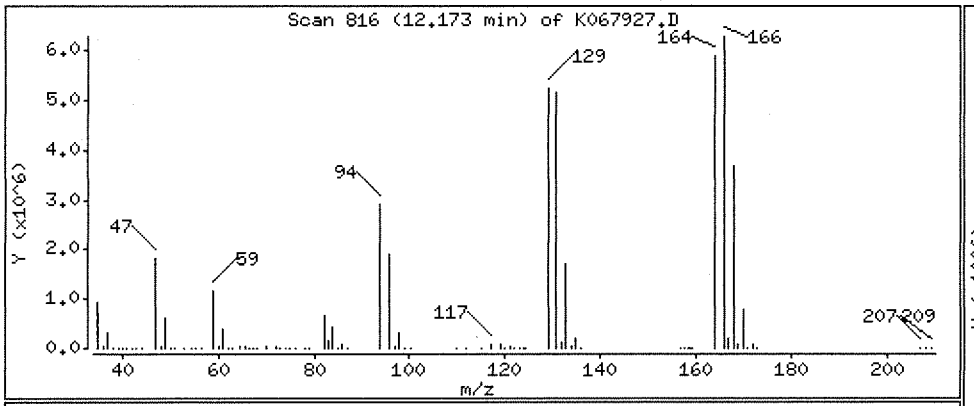
Operator: X

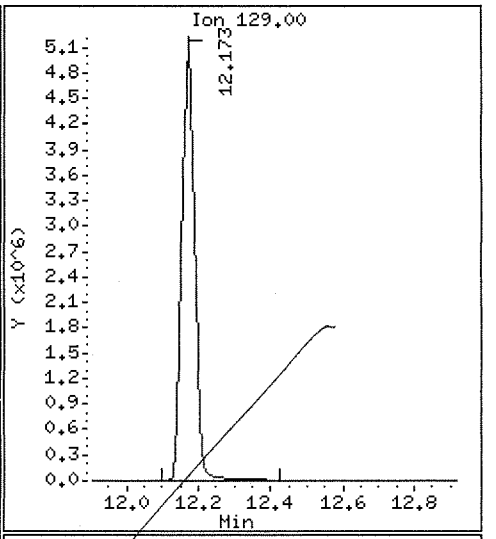
Column phase: DB-624

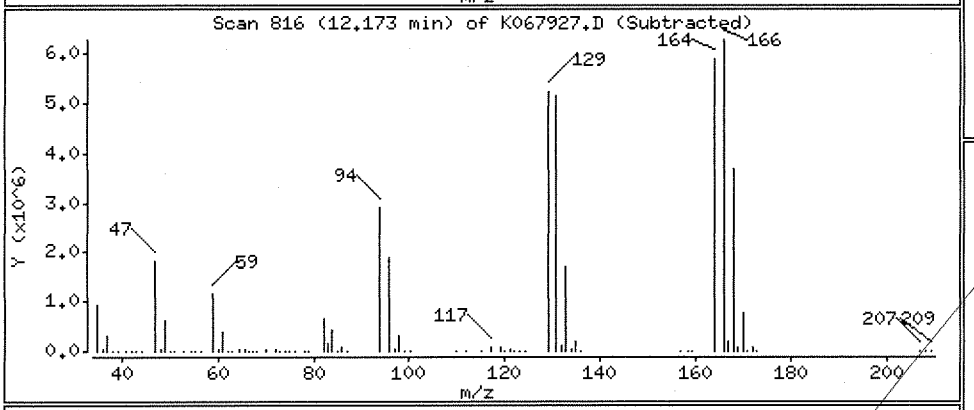
Column diameter: 0.32

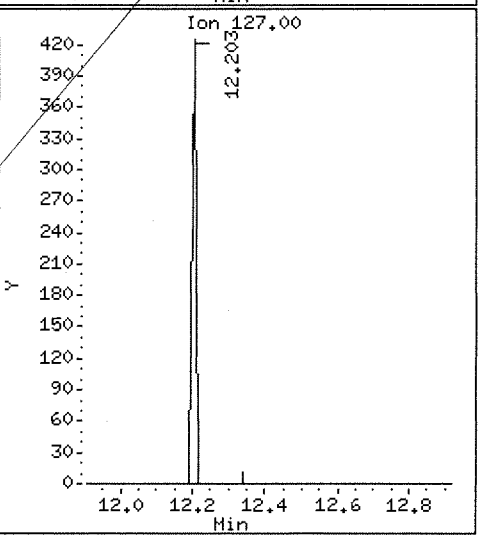
59 Dibromochloromethane

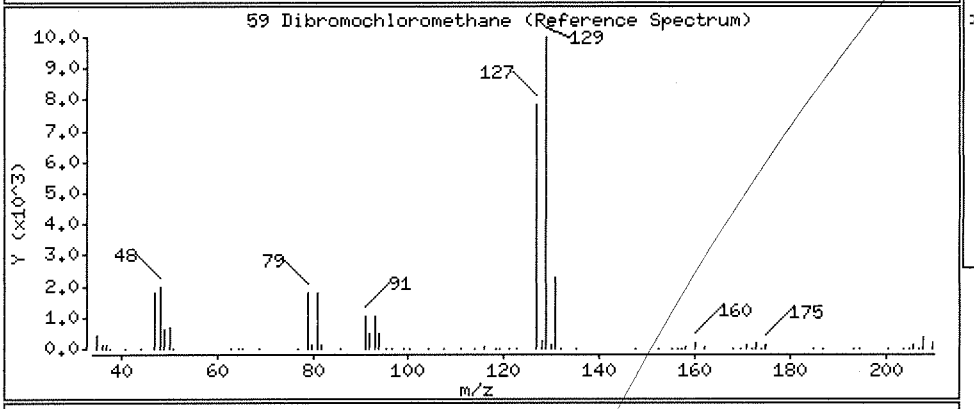
Concentration: 2430 ug/L

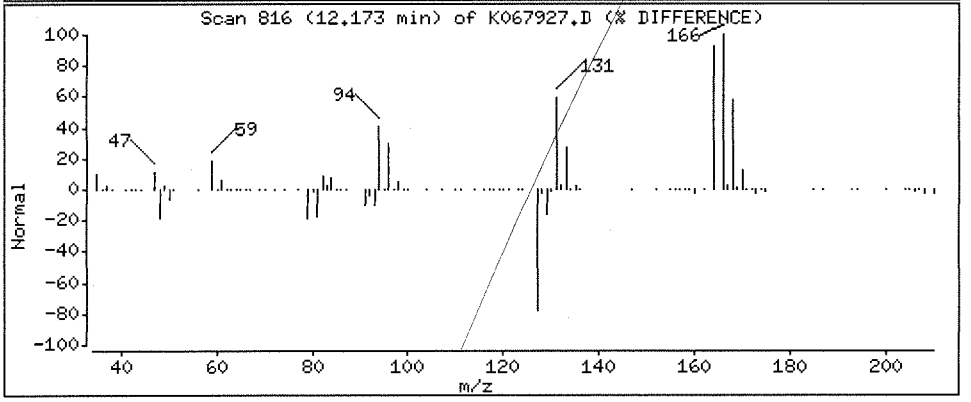












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067927.D

Date : 26-OCT-2006 10:06

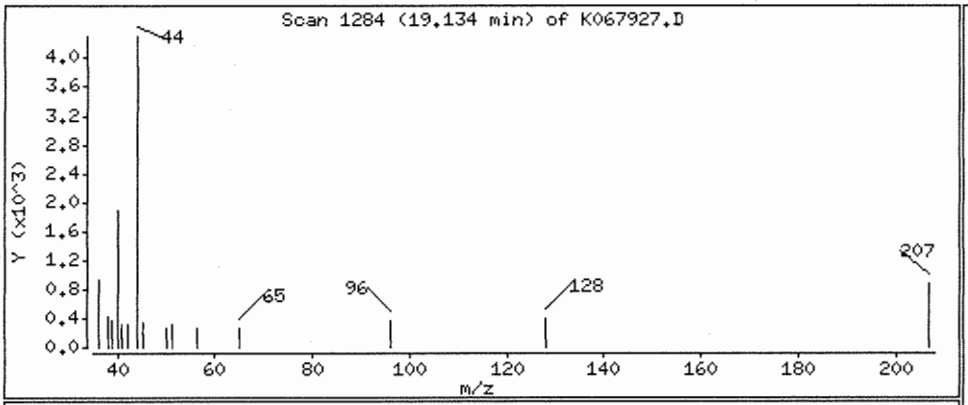
Client ID: T-53-GW11 Instrument: MSK.i

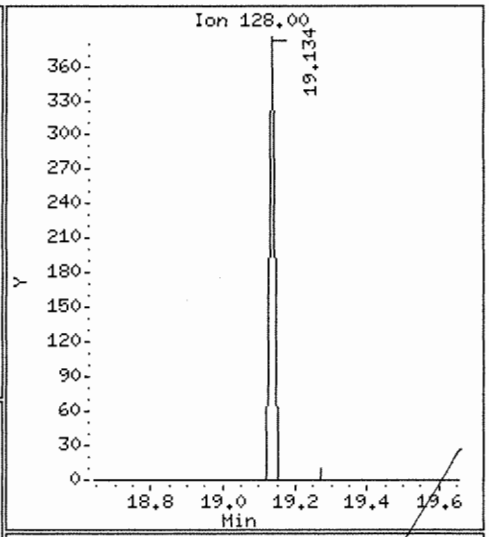
Sample Info: D0601625-007

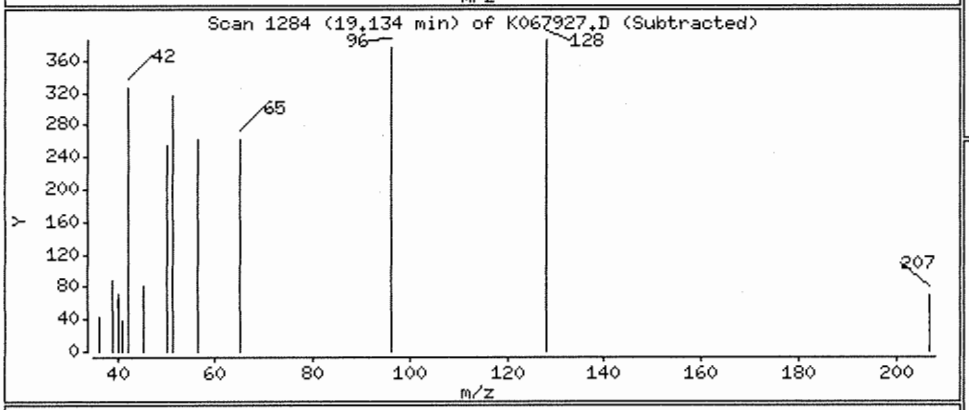
Purge Volume: 10.0 Operator: X

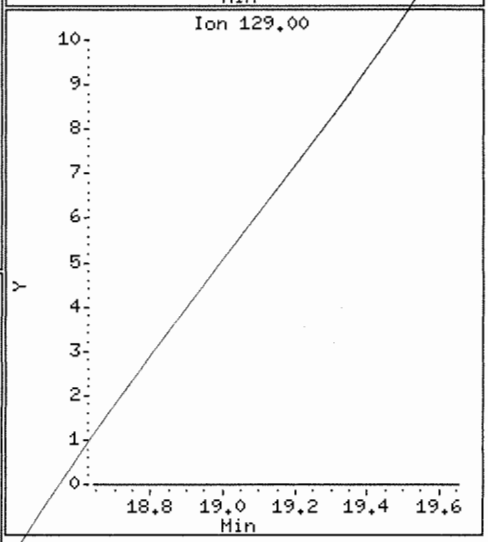
Column phase: DB-624 Column diameter: 0.32

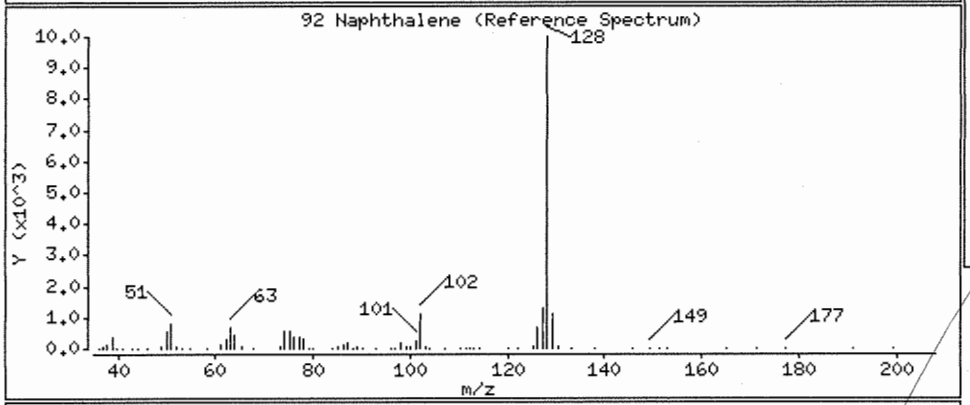
92 Naphthalene Concentration: 10.8 ug/L

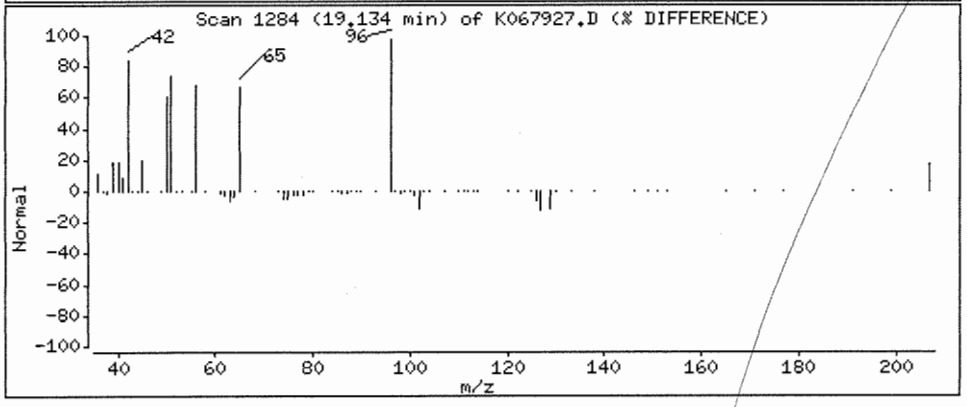












Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D
Lab Smp Id: D0601625-007DL Client Smp ID: T-53-GW11DL
Inj Date : 26-OCT-2006 10:33
Operator : X Inst ID: MSK.i
Smp Info : D0601625-007DL
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 2
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

B 10/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.718	9.733	(1.000)	1860480	10.0000	
* 2	Chlorobenzene-d5	117	13.065	13.065	(1.000)	1051519	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.653	15.668	(1.000)	276981	10.0000	
$ 4	Dibromofluoromethane	113	8.915	8.930	(0.917)	625680	11.5704	11.6
$ 5	1,2-Dichloroethane-d4	65	9.332	9.331	(0.960)	613052	11.0861	11.1
$ 6	Toluene-d8	98	11.474	11.473	(0.878)	1402694	10.2479	10.2
$ 7	Bromofluorobenzene	174	14.329	14.329	(0.915)	311327	11.2495	11.2
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	Compound Not Detected.					
12	Bromomethane	94	Compound Not Detected.					
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	6.104	6.104	(0.628)	40339	1.12180	112
18	Acetone	43	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	7.666	7.680	(0.789)	49992	0.54820	54.8
30	Vinyl acetate	43	Compound Not Detected.					

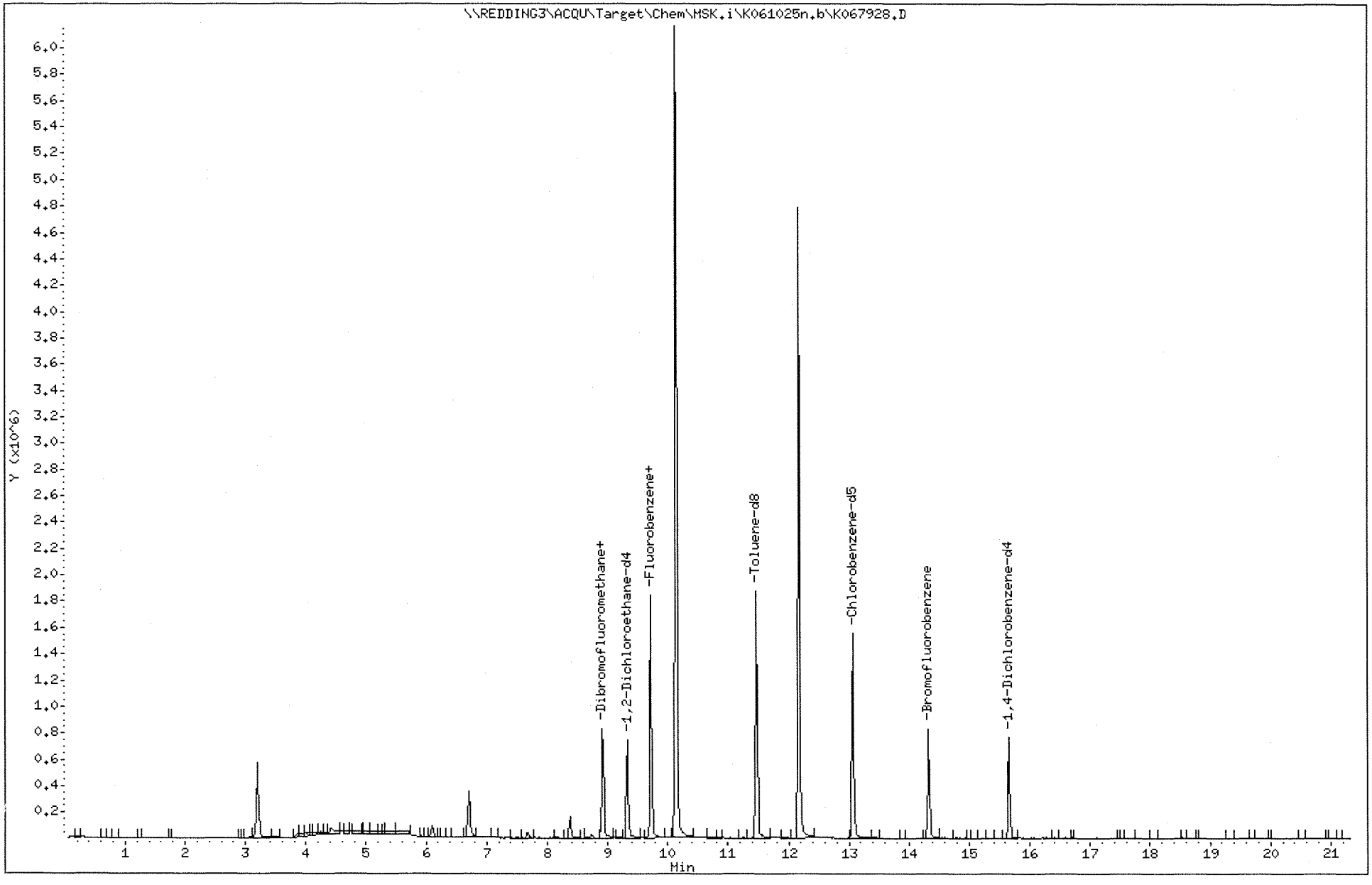
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.380	8.379	(0.862)	78575	1.52579	152
35	2-Butanone	43	8.350	8.350	(0.859)	3432	0.95328	~~95.3(a)~~
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	8.737	8.736	(0.899)	21112	0.21937	21.9(a)
38	1,1,1-Trichloroethane	97	9.004	9.019	(0.927)	11914	0.18401	18.4(aQ)
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.718	9.421	(1.000)	26731	0.39952	~~40.0(a)~~
45	Trichloroethene	95	10.135	10.149	(1.043)	2548725	48.1140	4810
46	1,2-Dichloropropane	63	10.135	10.387	(1.043)	11017	0.19806	~~19.8(aQ)~~
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	12.173	11.949	(0.932)	40721	1.13485	~~113(Q)~~
56	Tetrachloroethene	166	12.173	12.172	(0.932)	1828239	35.7207	3570
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	12.173	12.410	(0.932)	1279265	26.3771	~~2640(Q)~~
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	Compound Not Detected.					
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D
Date : 26-OCT-2006 10:33
Client ID: T-53-GW11DL
Sample Info: D0601625-007DL
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

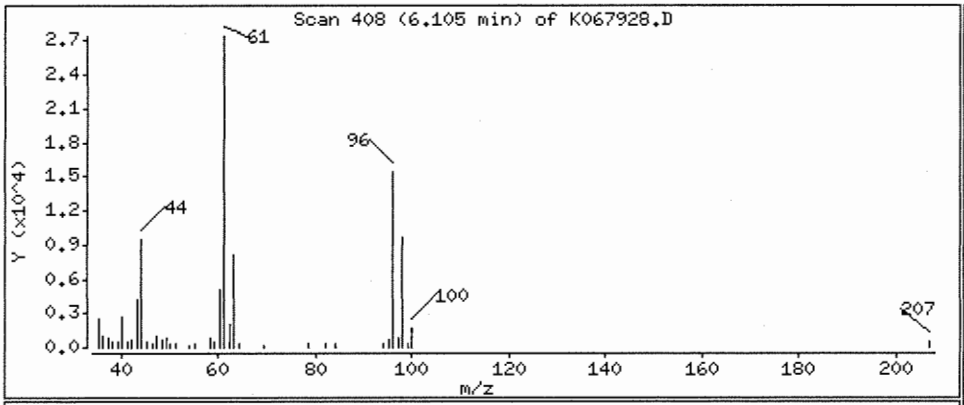
Operator: X

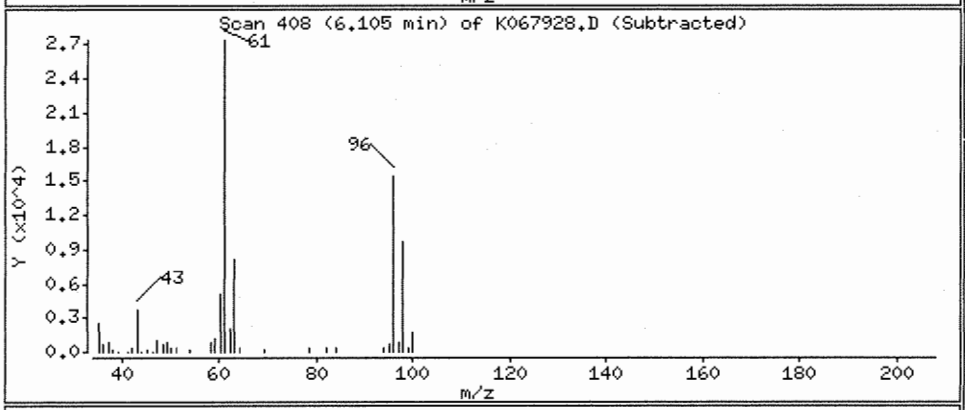
Column phase: DB-624

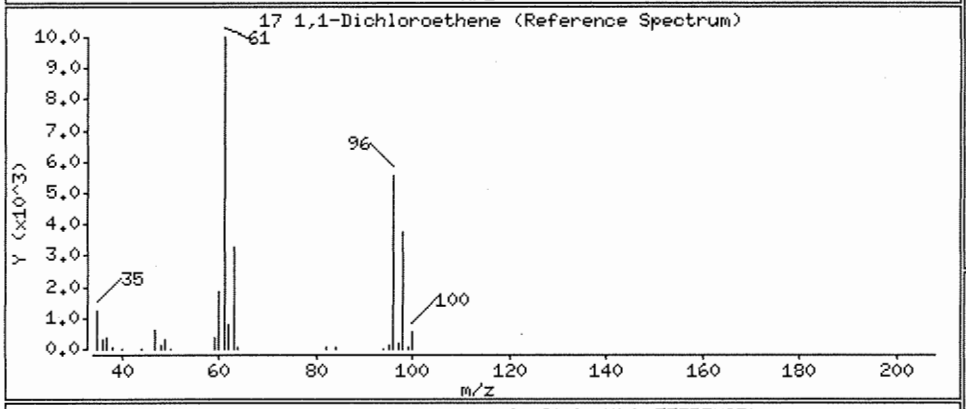
Column diameter: 0.32

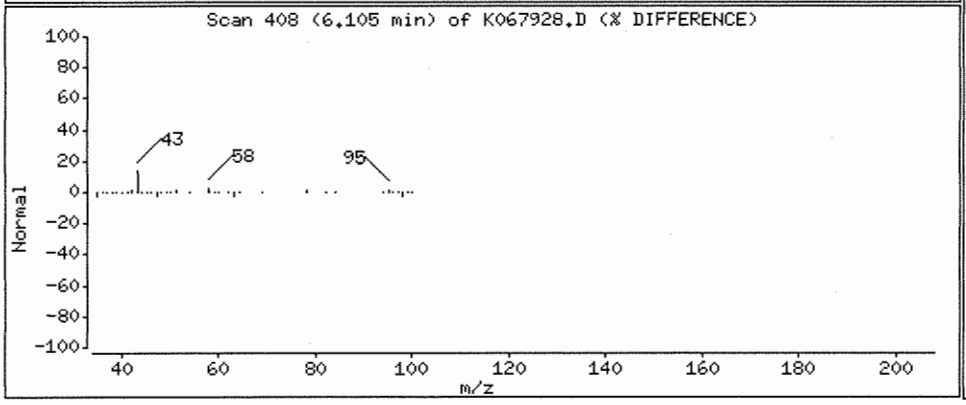
17 1,1-Dichloroethene

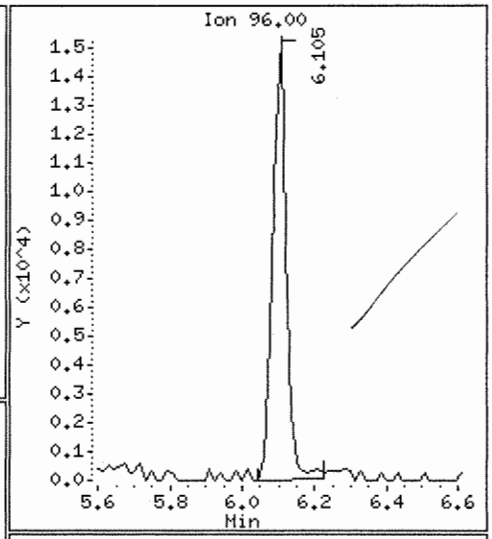
Concentration: 112 ug/L

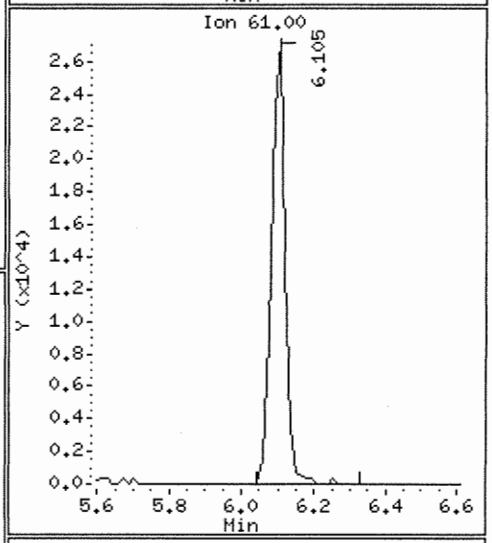


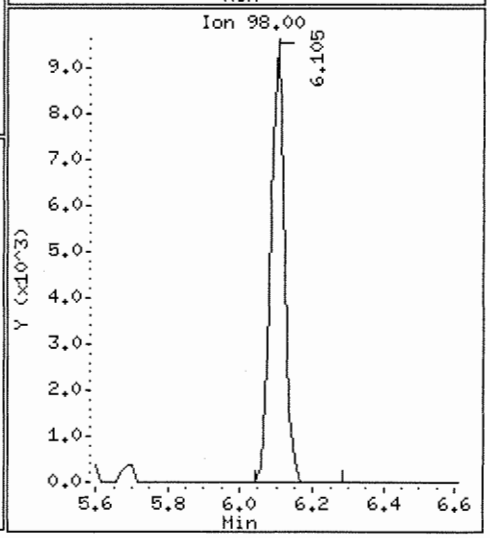












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

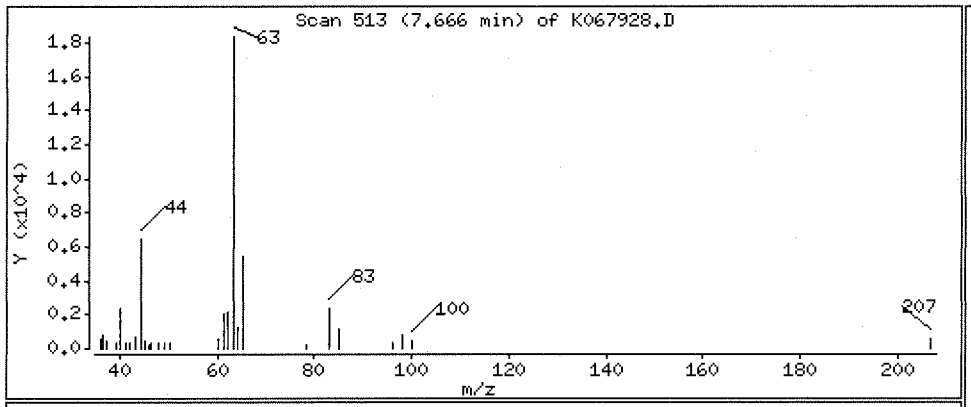
Operator: X

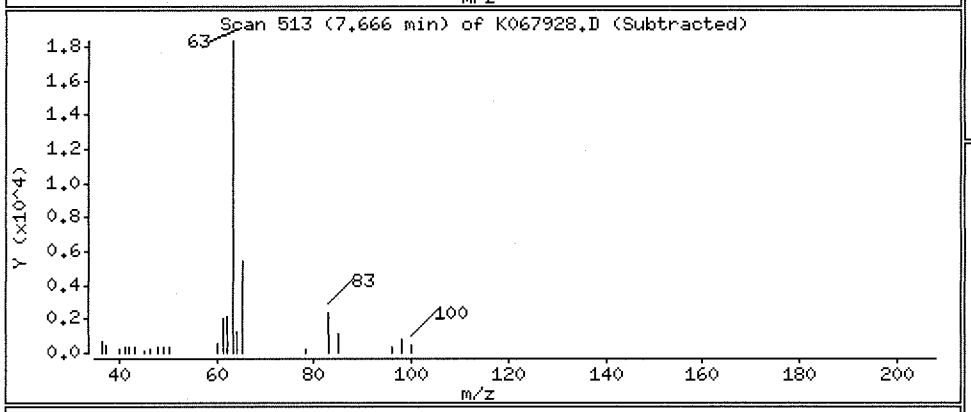
Column phase: DB-624

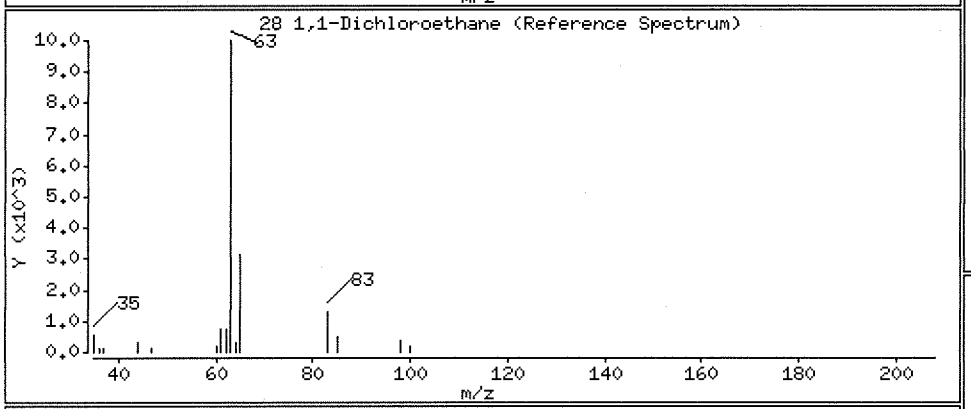
Column diameter: 0.32

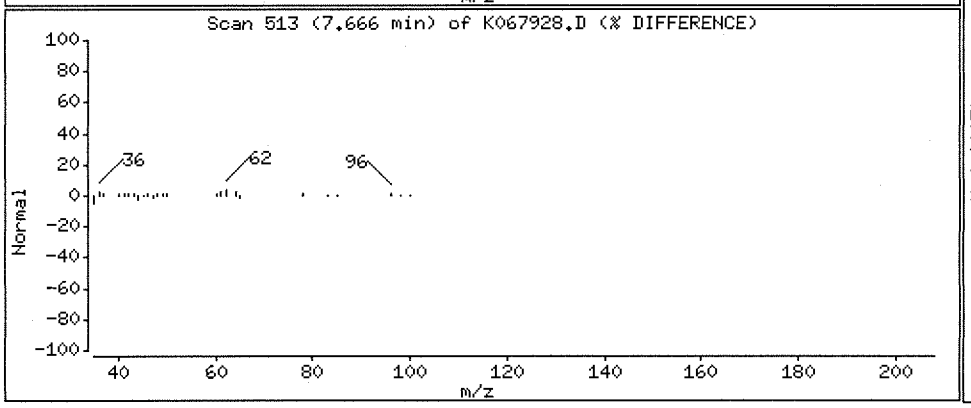
28 1,1-Dichloroethane

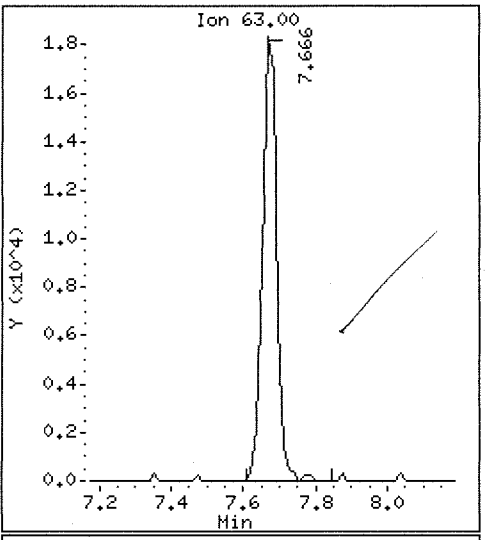
Concentration: 54.8 ug/L

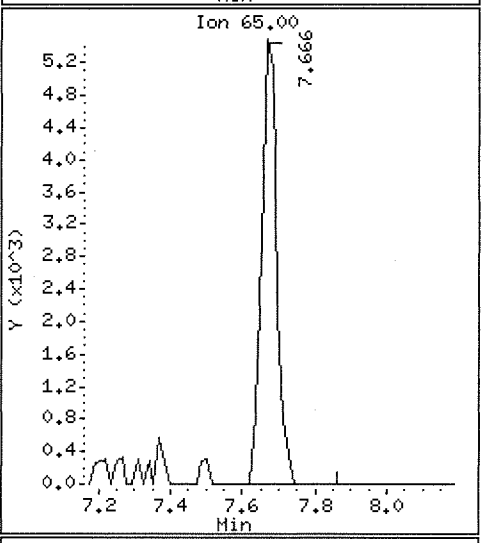


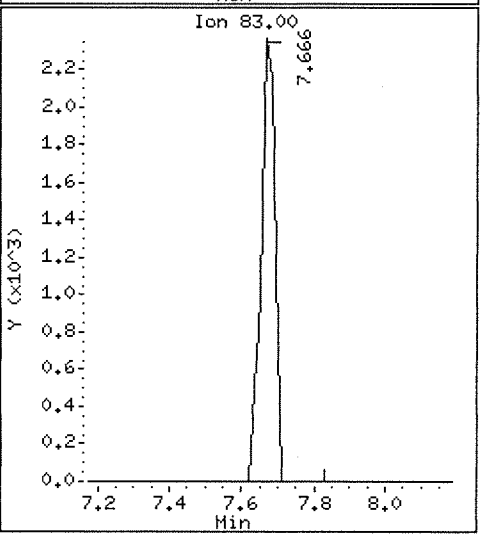












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

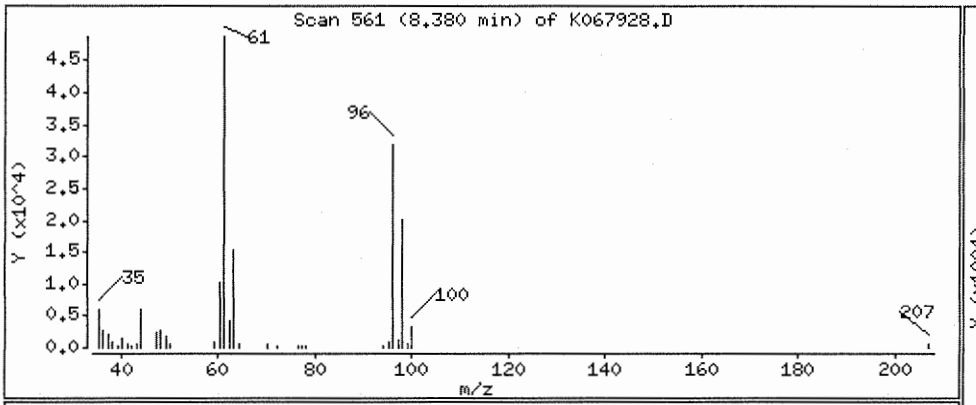
Operator: X

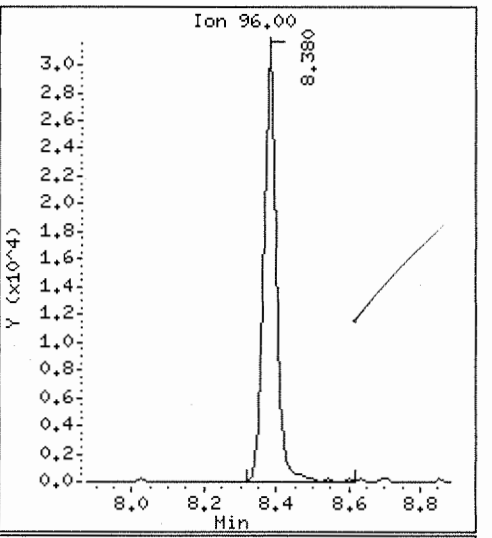
Column phase: DB-624

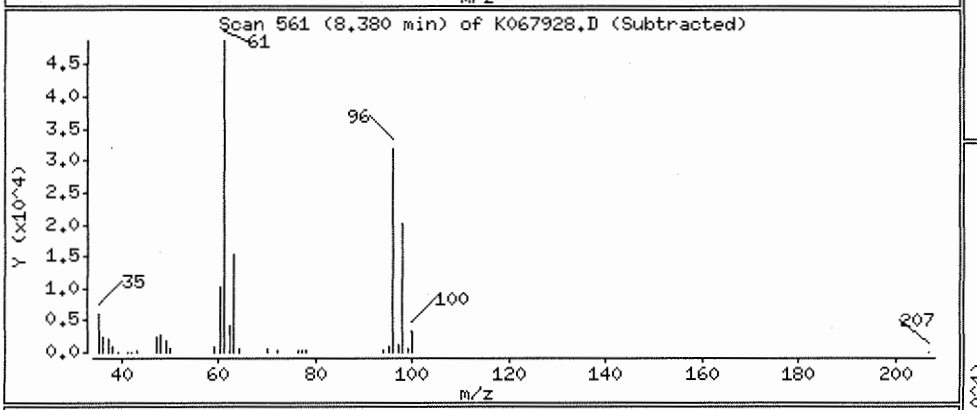
Column diameter: 0.32

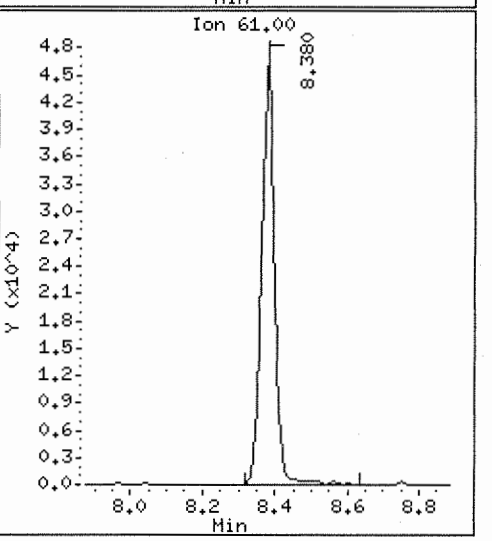
33 cis-1,2-Dichloroethene

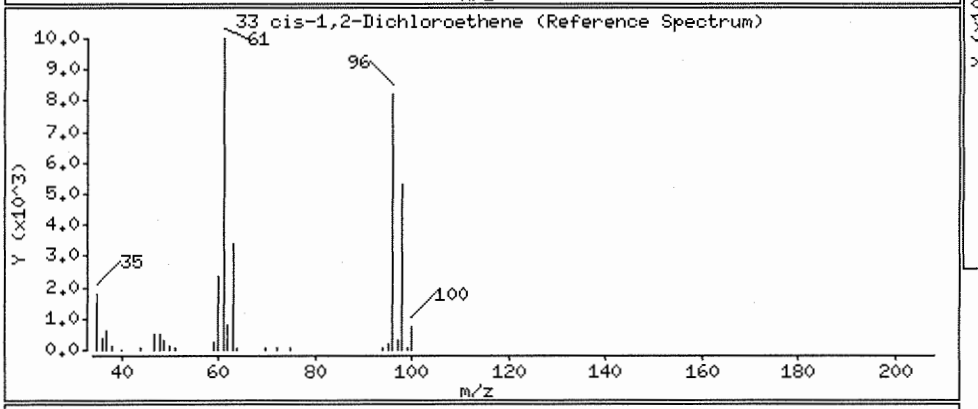
Concentration: 152 ug/L

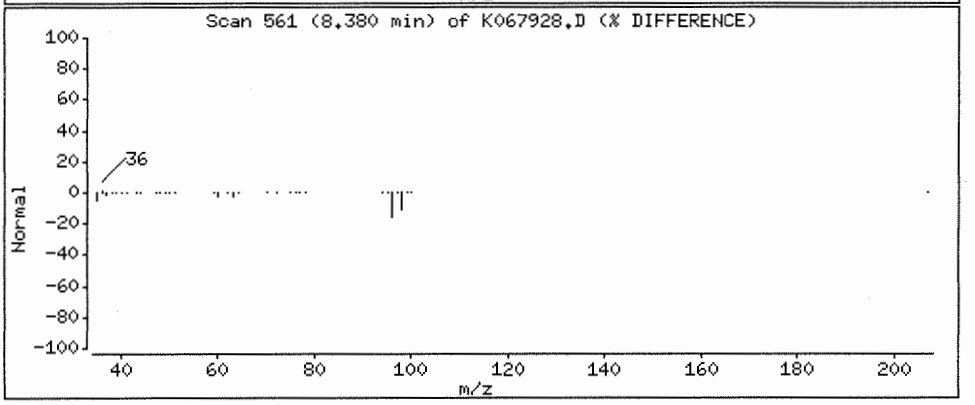












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

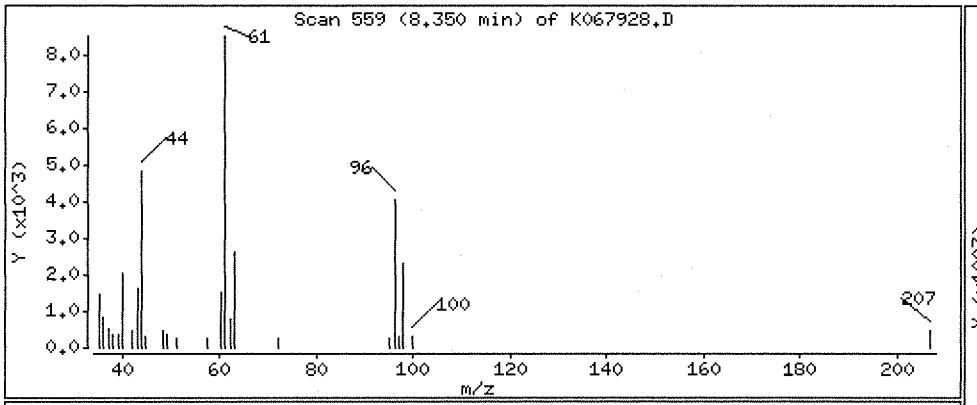
Operator: X

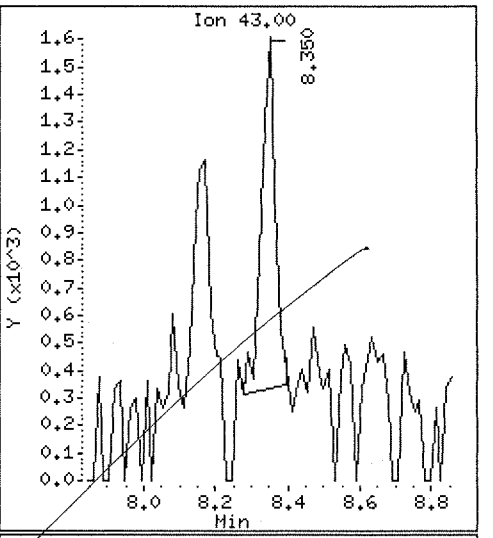
Column phase: DB-624

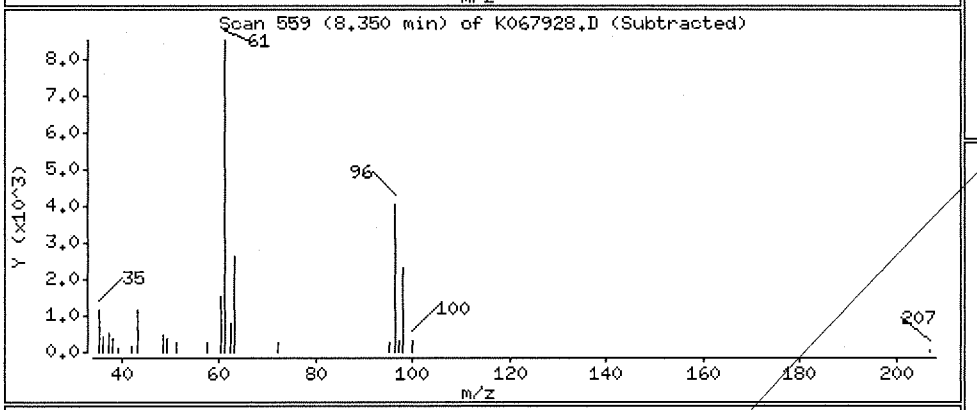
Column diameter: 0.32

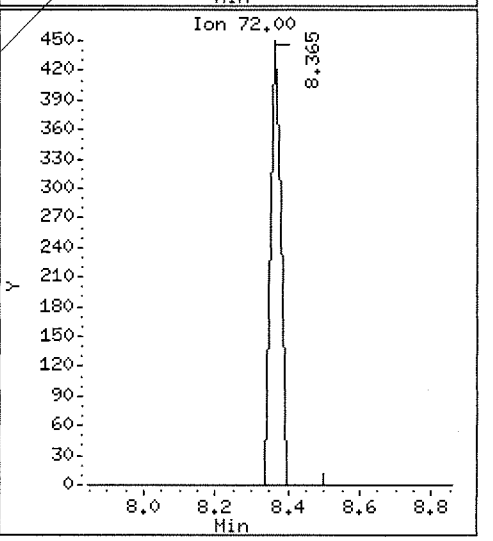
35 2-Butanone

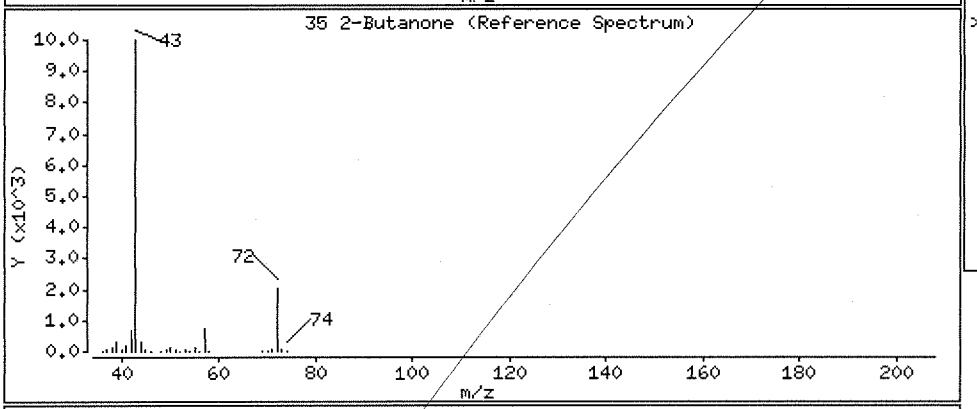
Concentration: 95.3 ug/L

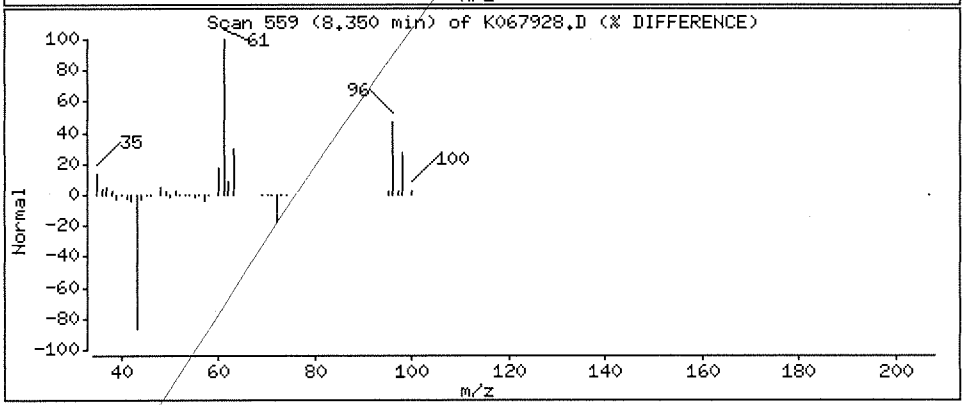












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

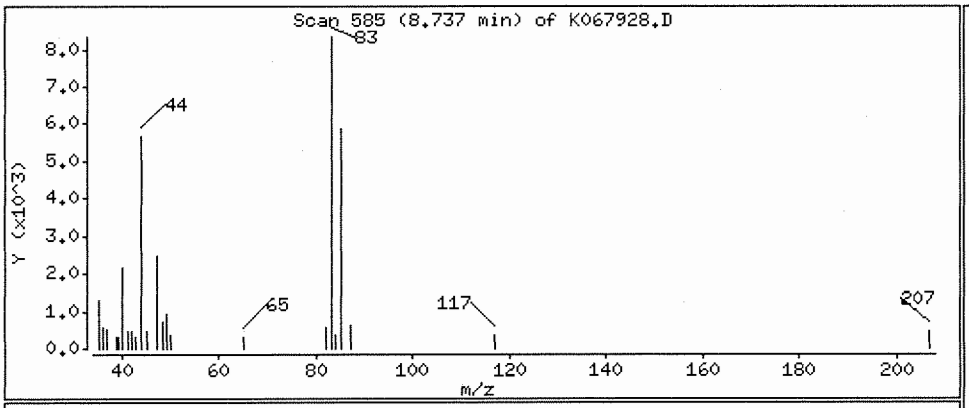
Operator: X

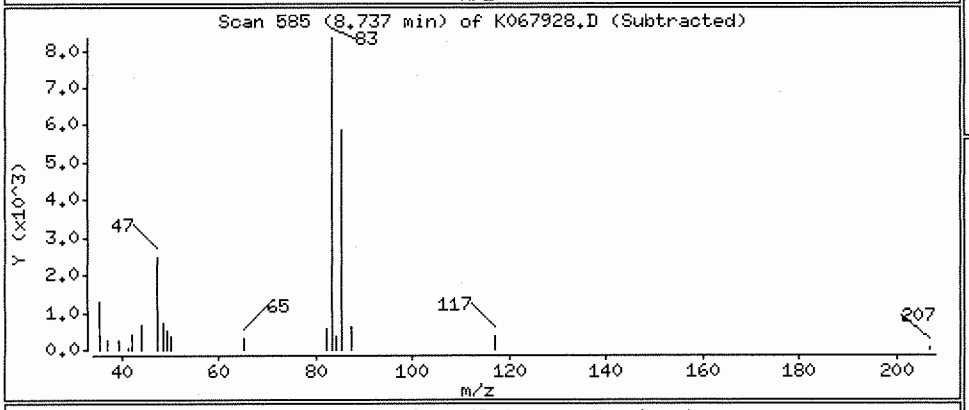
Column phase: DB-624

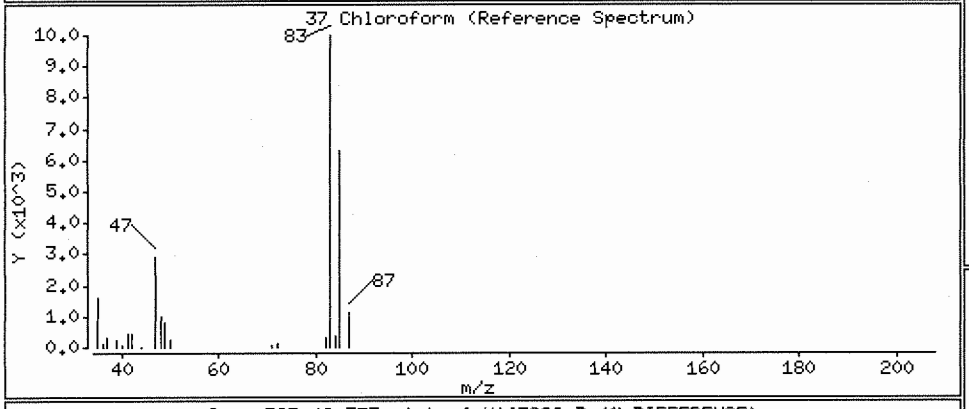
Column diameter: 0.32

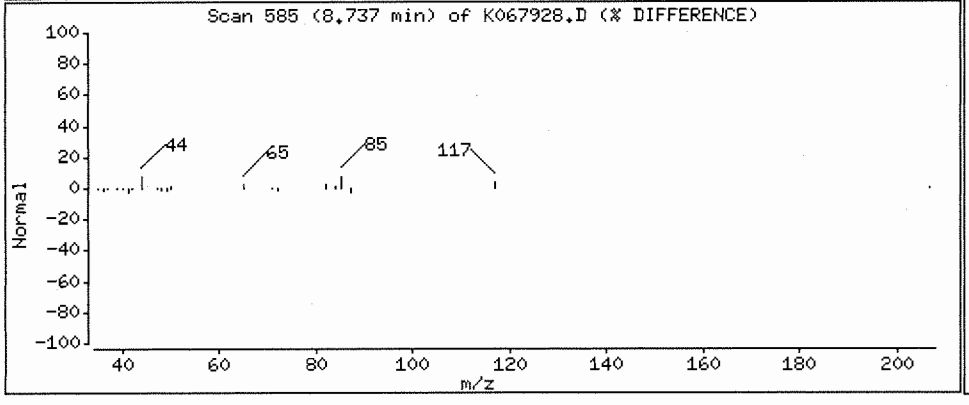
37 Chloroform

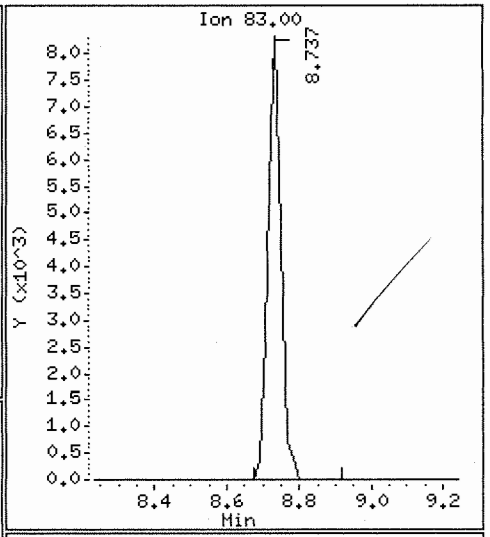
Concentration: 21.9 ug/L

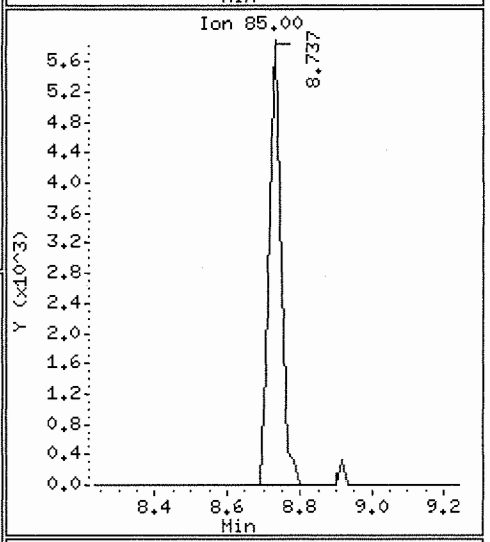


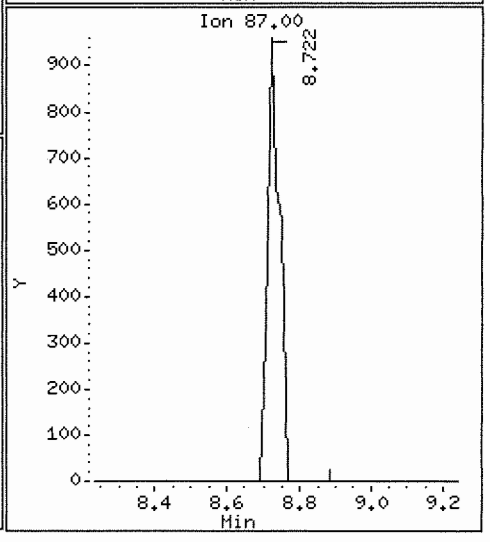












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

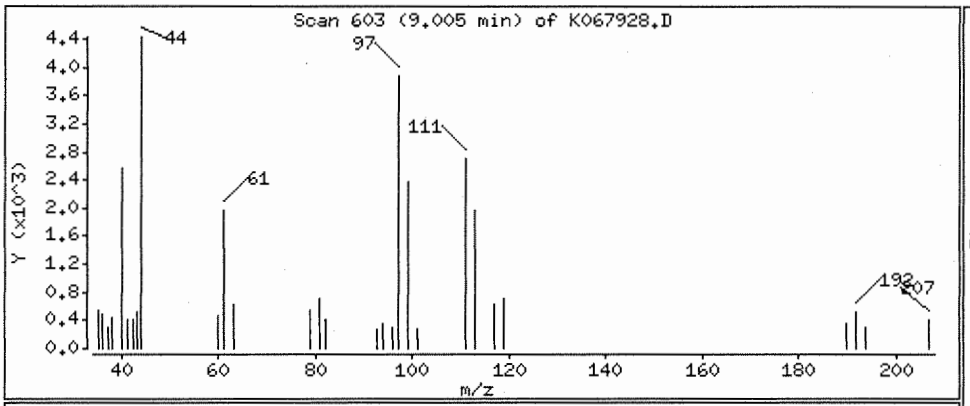
Operator: X

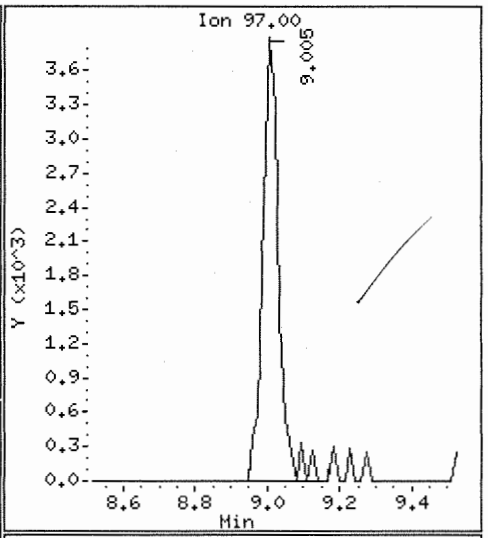
Column phase: DB-624

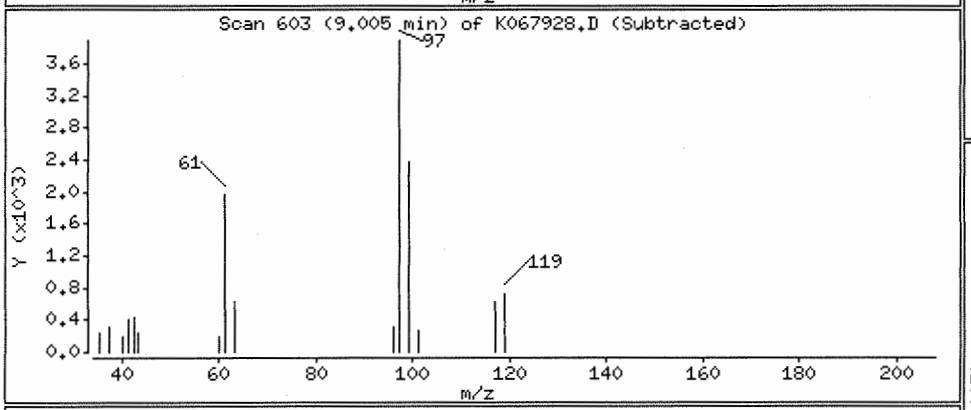
Column diameter: 0.32

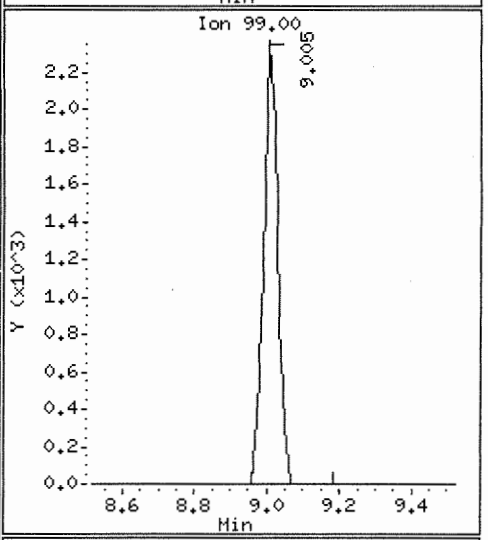
38 1,1,1-Trichloroethane

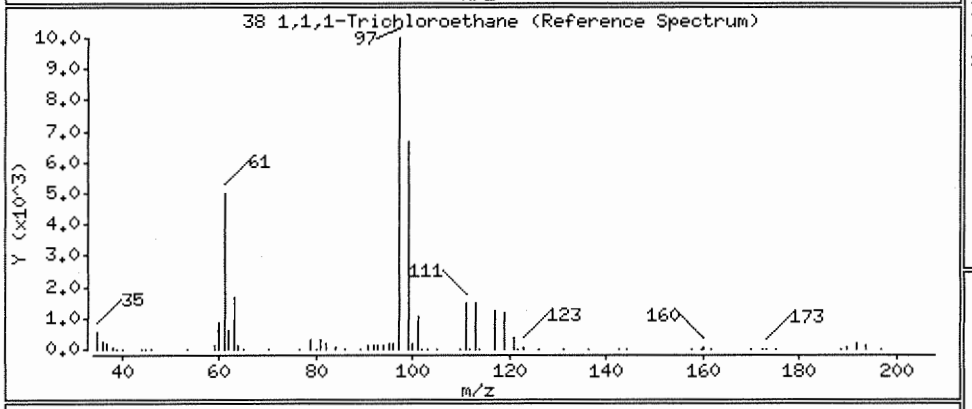
Concentration: 18.4 ug/L

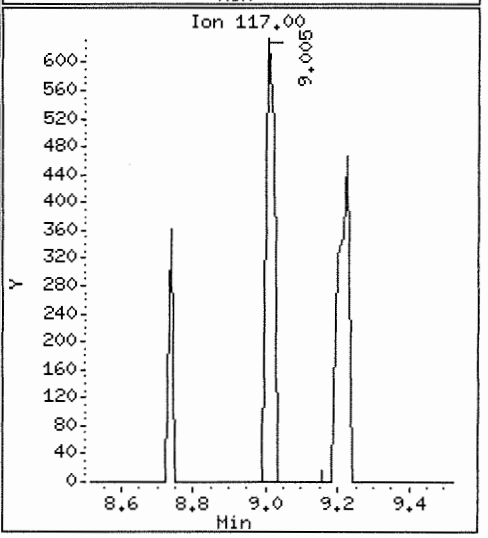


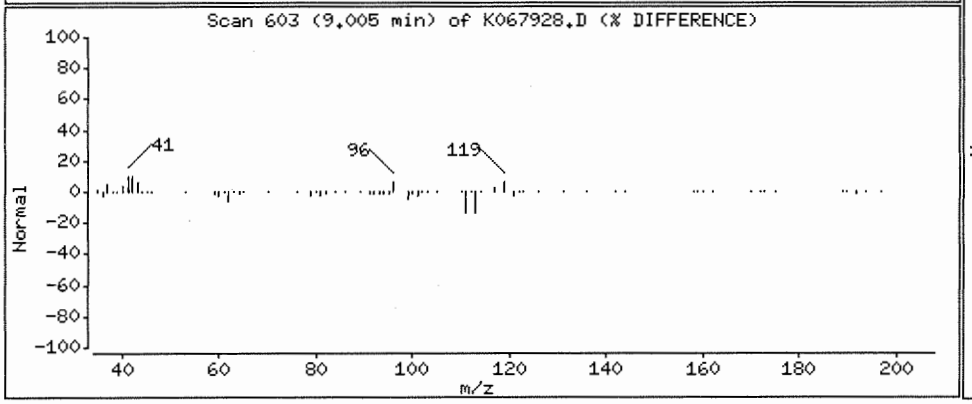












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

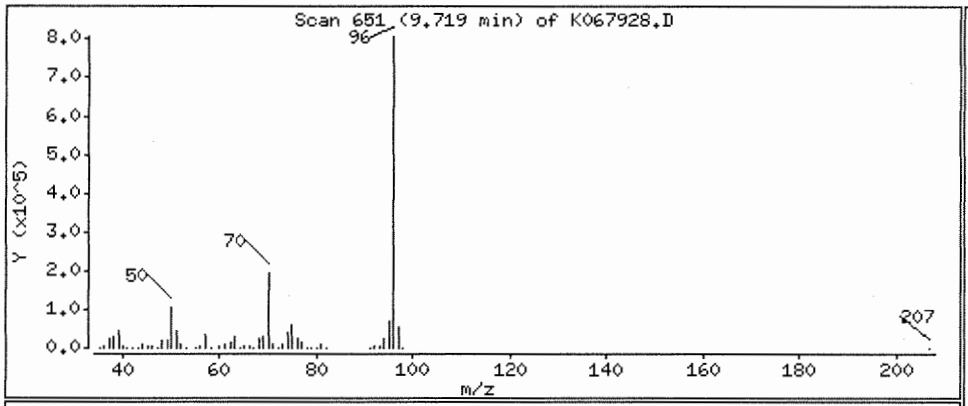
Operator: X

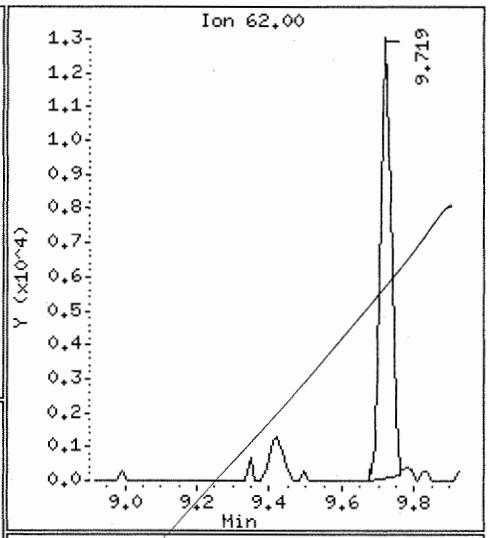
Column phase: DB-624

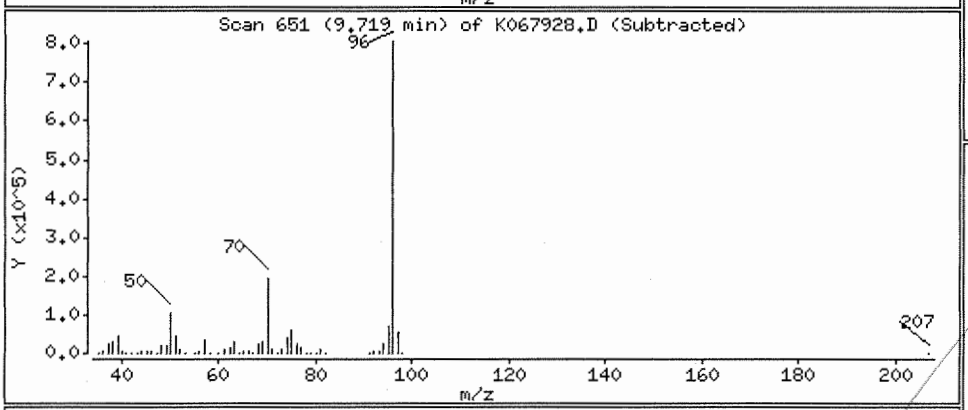
Column diameter: 0.32

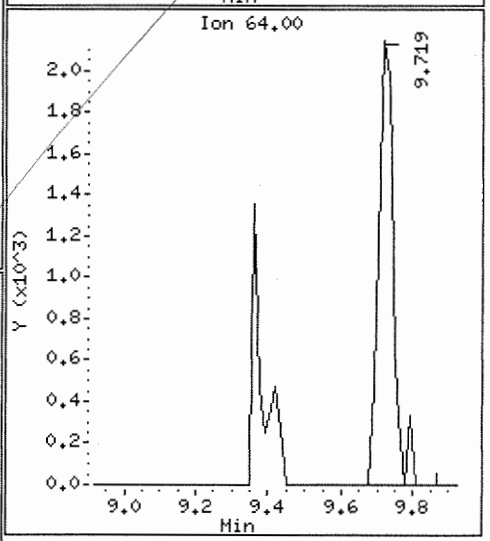
44 1,2-Dichloroethane

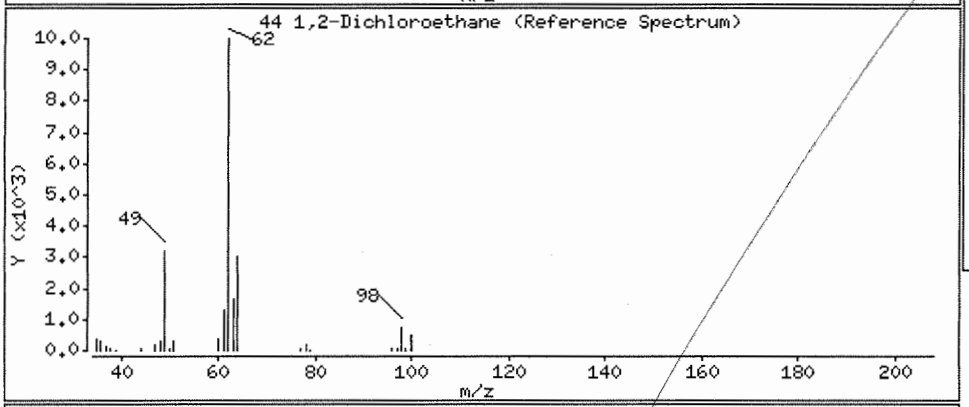
Concentration: 40.0 ug/L

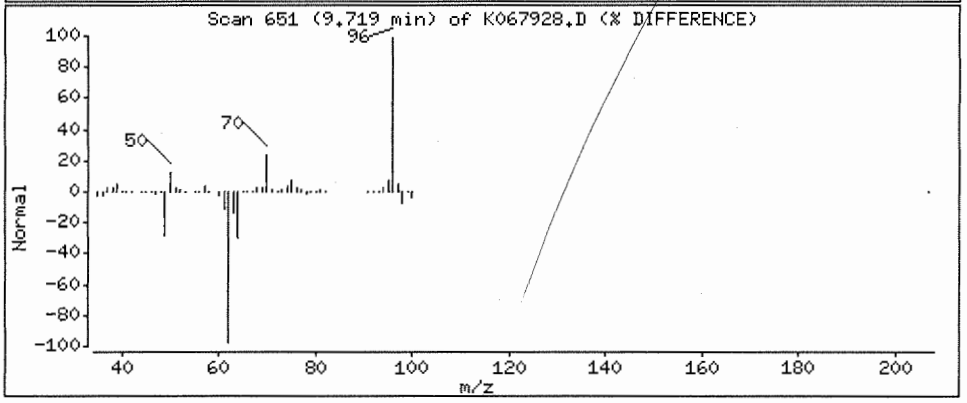












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

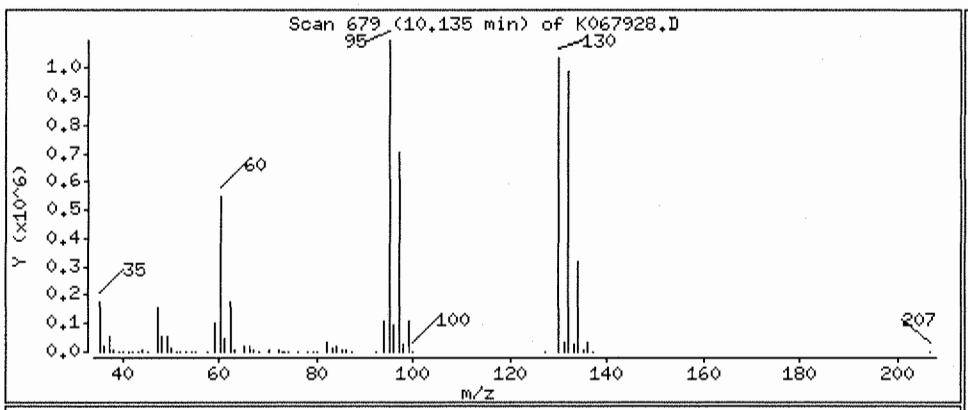
Operator: X

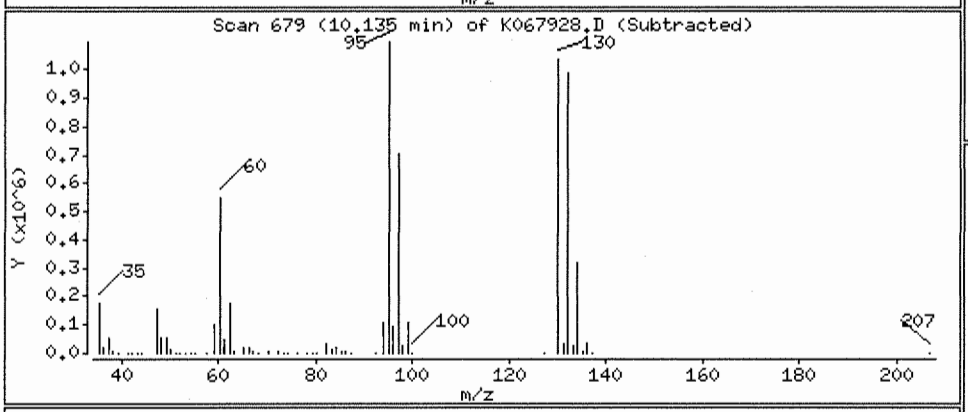
Column phase: DB-624

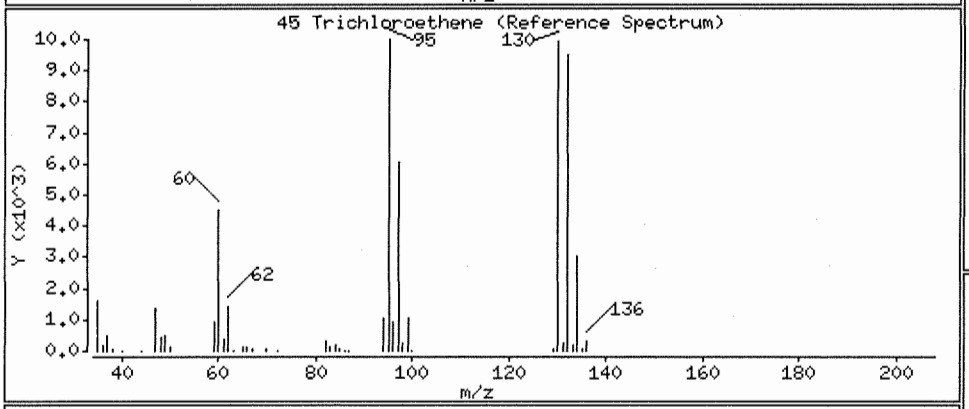
Column diameter: 0.32

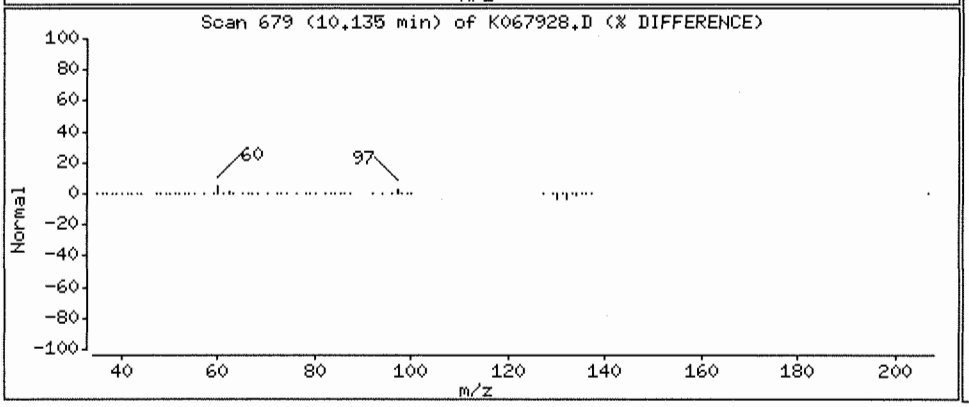
45 Trichloroethene

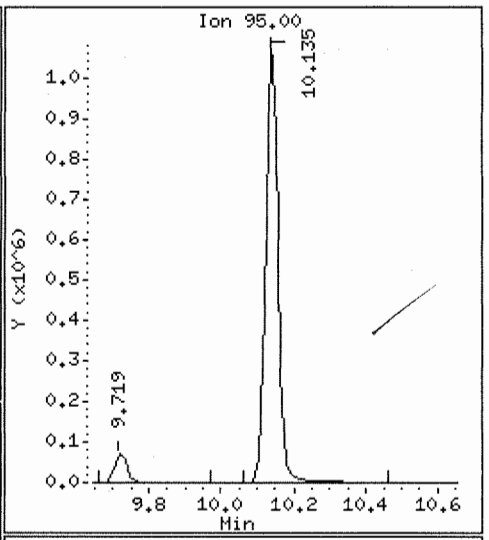
Concentration: 4810 ug/L

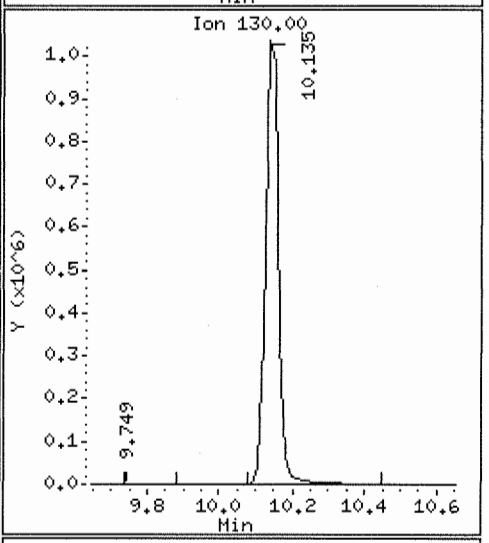


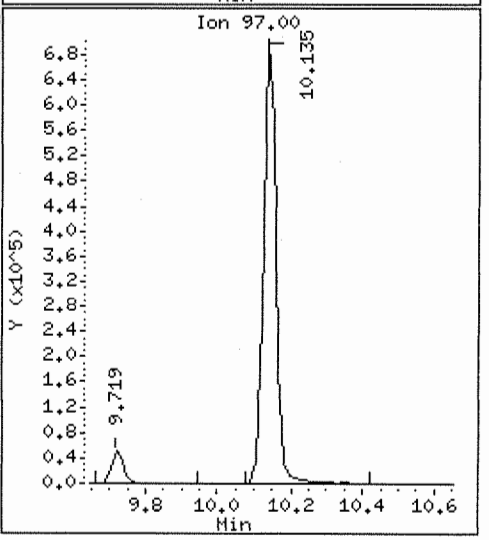












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

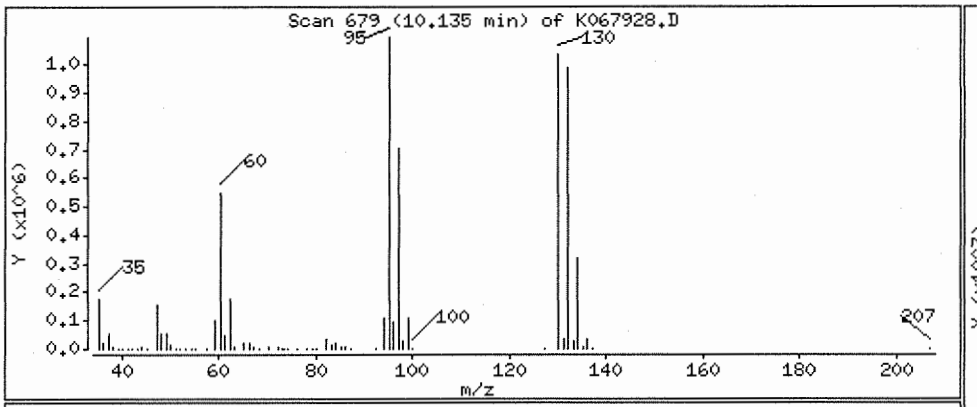
Operator: X

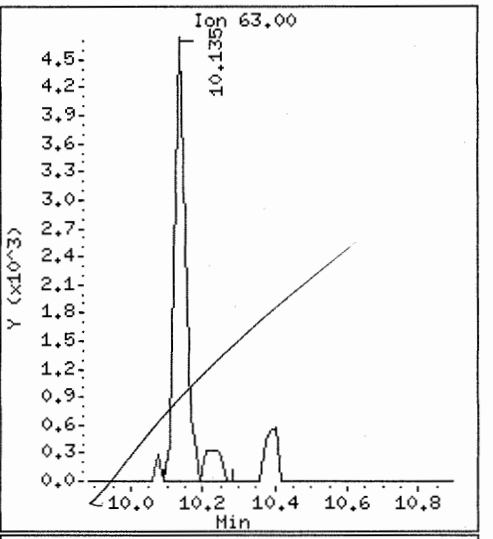
Column phase: DB-624

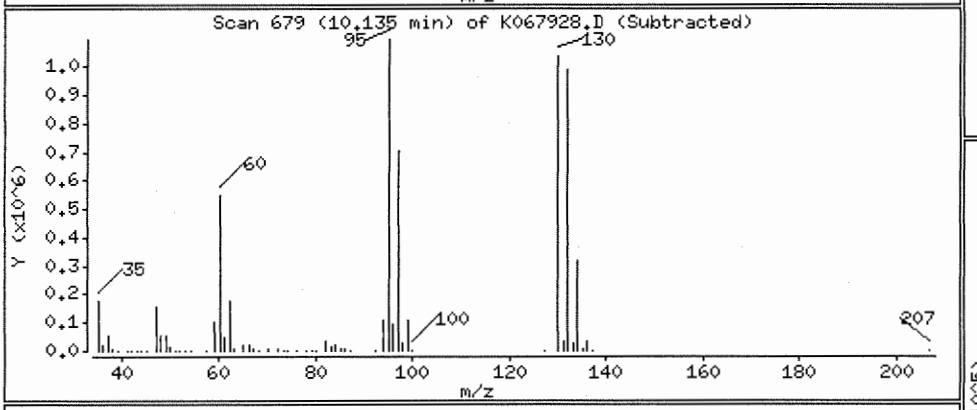
Column diameter: 0.32

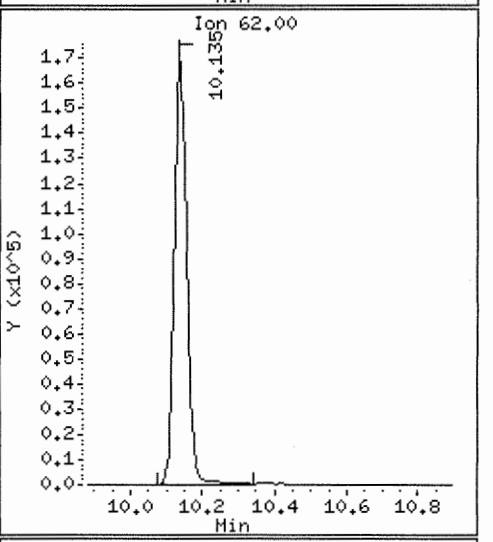
46 1,2-Dichloropropane

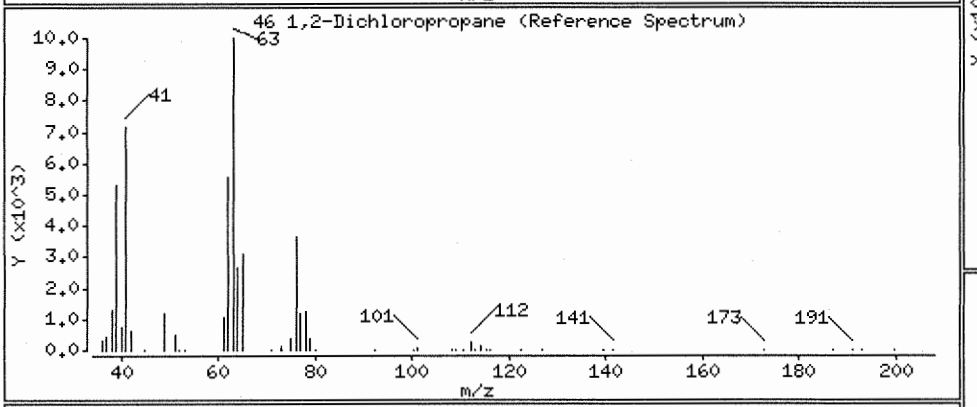
Concentration: 19.8 ug/L

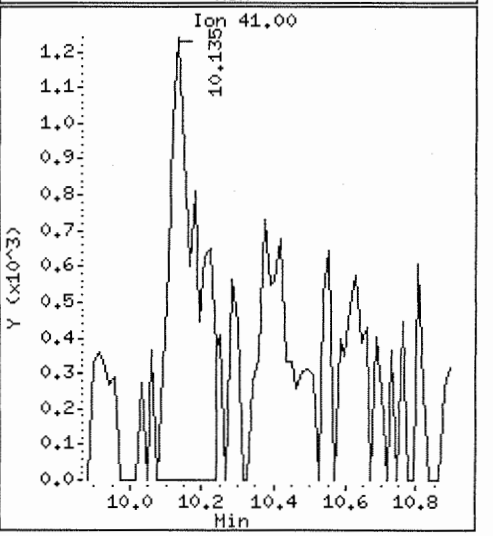


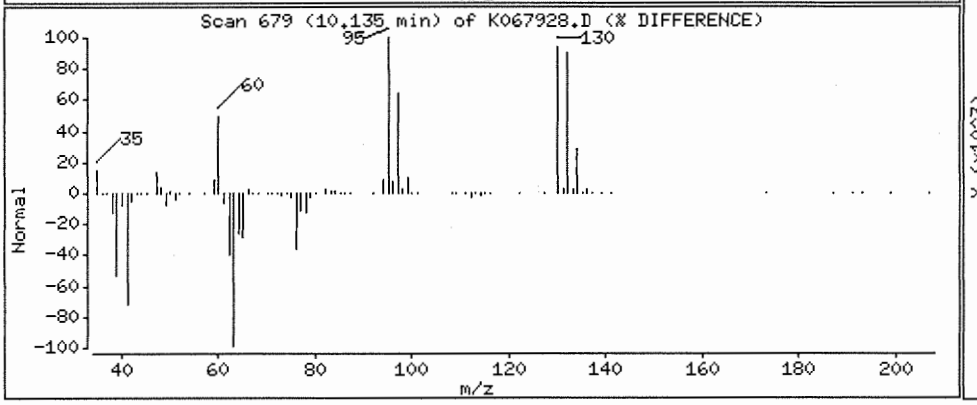












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

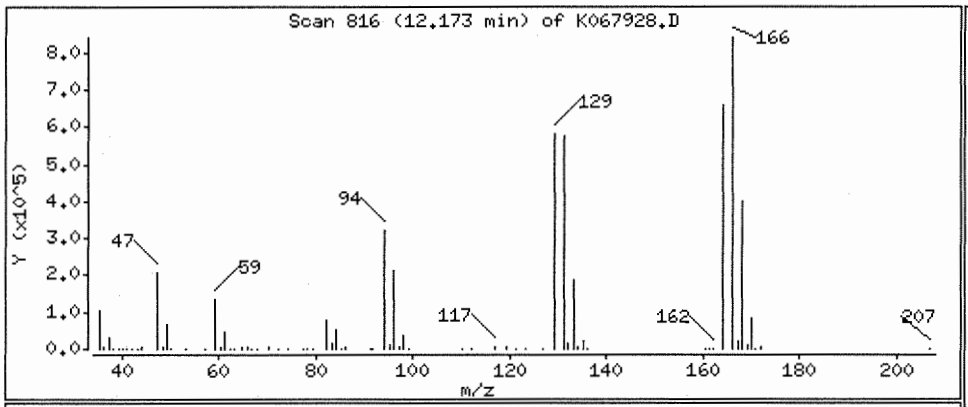
Operator: X

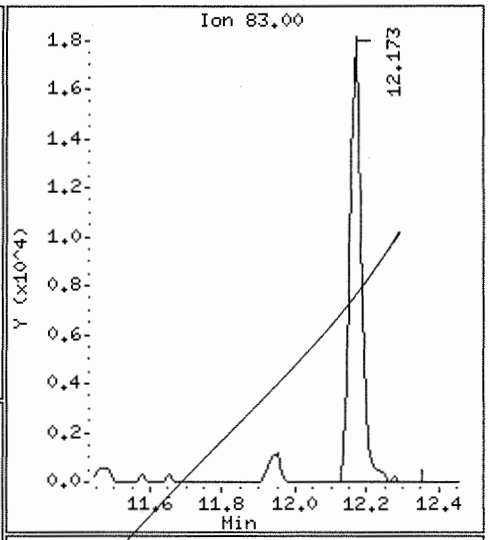
Column phase: DB-624

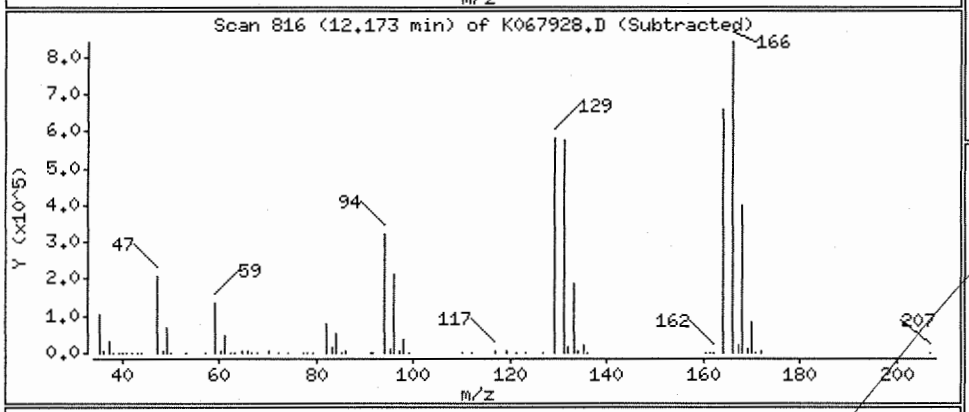
Column diameter: 0.32

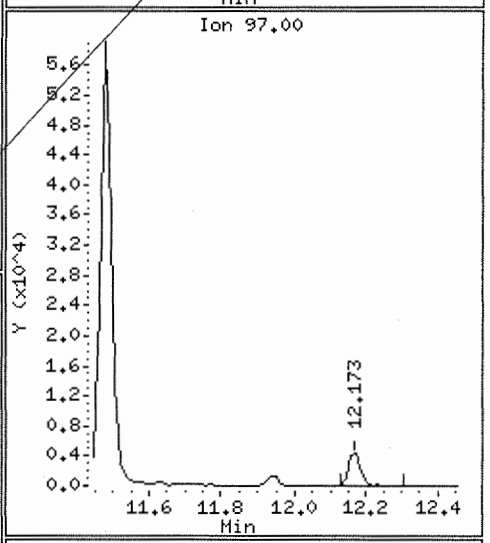
55 1,1,2-Trichloroethane

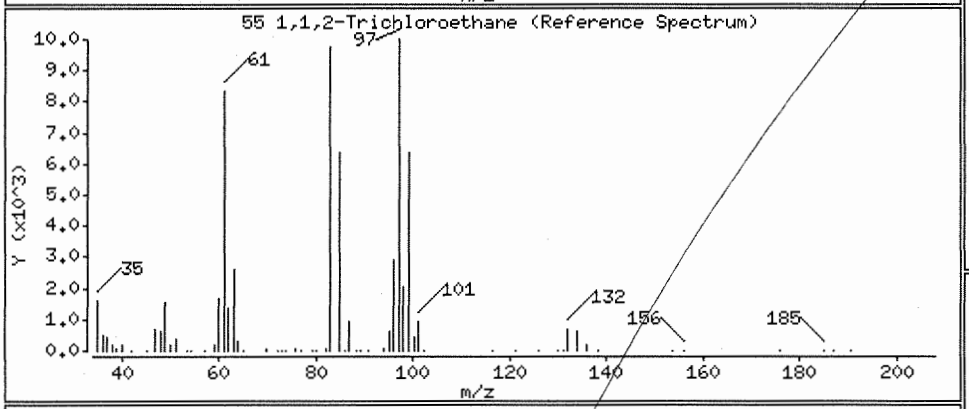
Concentration: 113 ug/L

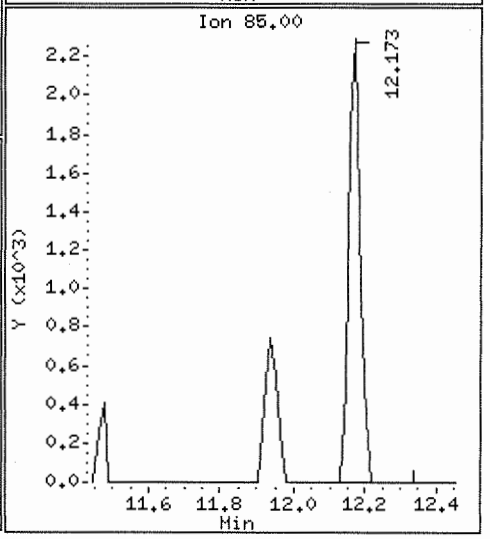


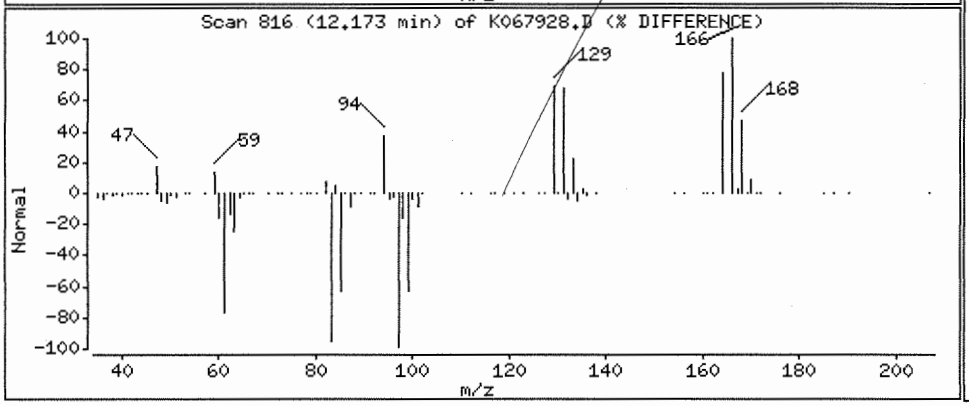












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

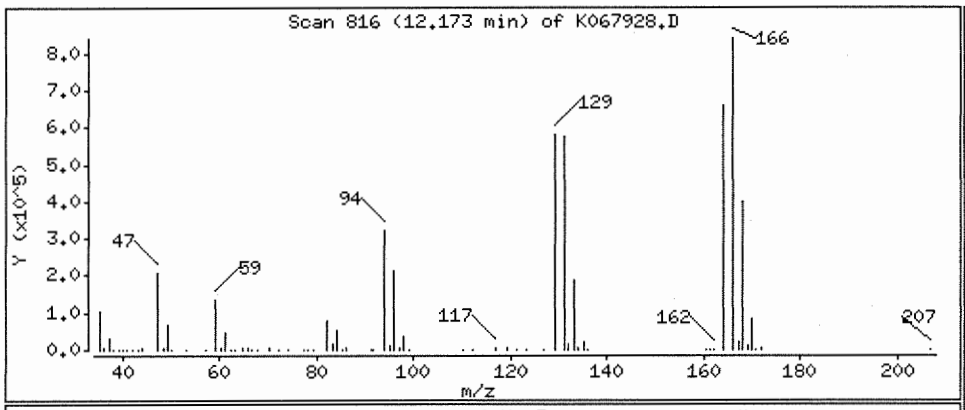
Operator: X

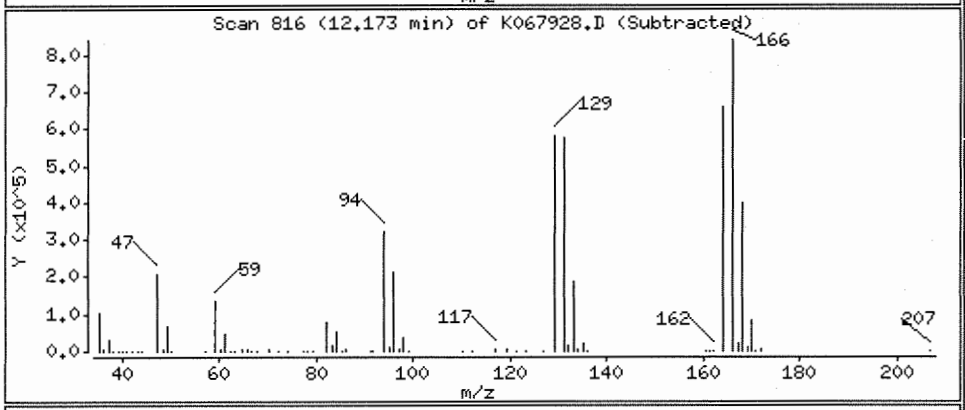
Column phase: DB-624

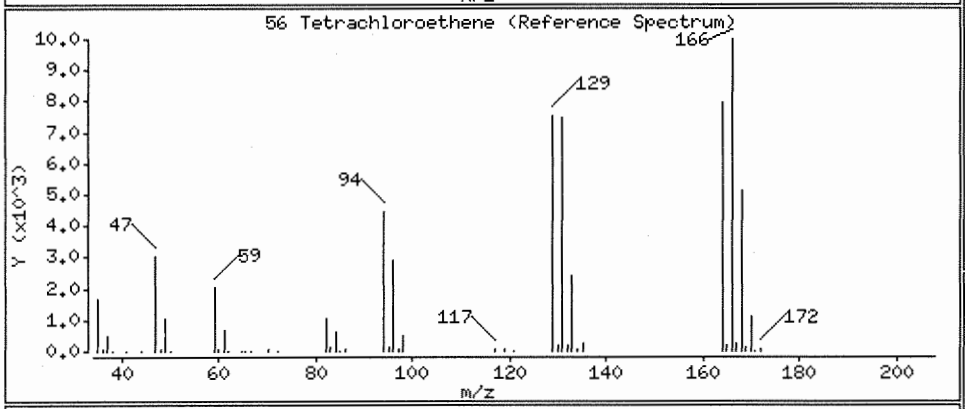
Column diameter: 0.32

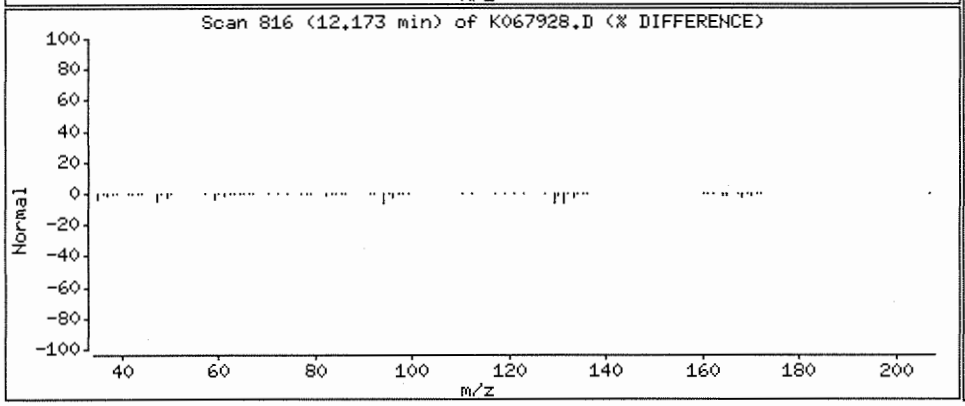
56 Tetrachloroethene

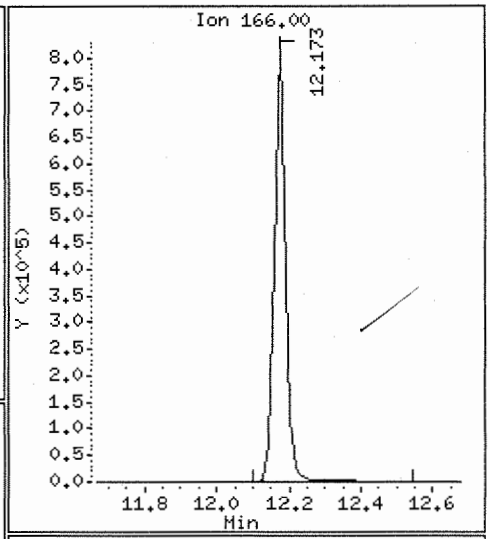
Concentration: 3570 ug/L

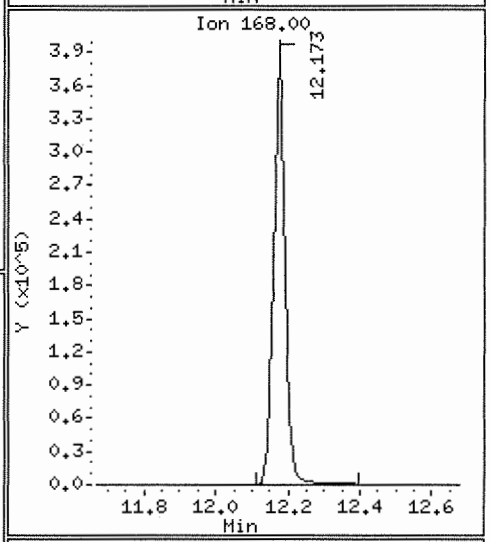


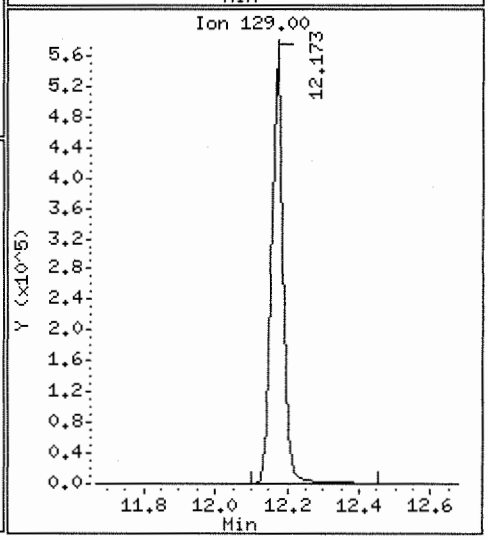












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067928.D

Date : 26-OCT-2006 10:33

Client ID: T-53-GW11DL

Instrument: MSK.i

Sample Info: D0601625-007DL

Purge Volume: 10.0

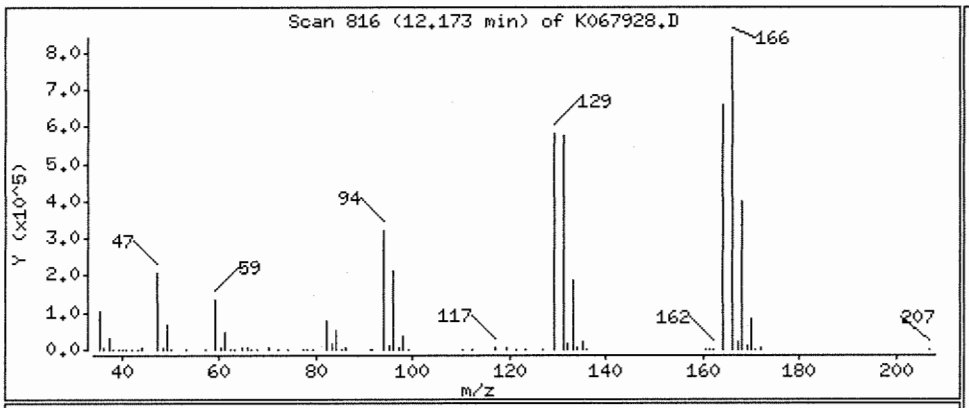
Operator: X

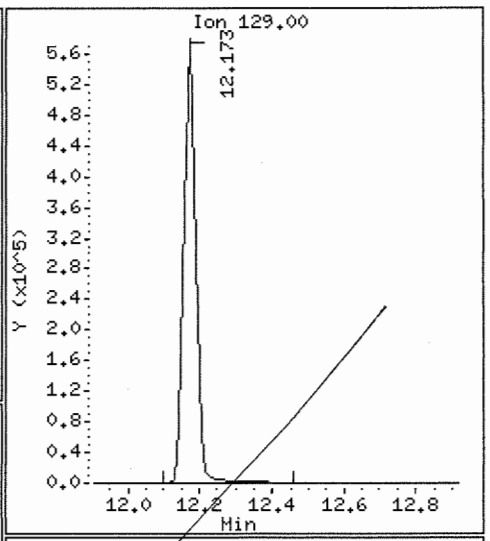
Column phase: DB-624

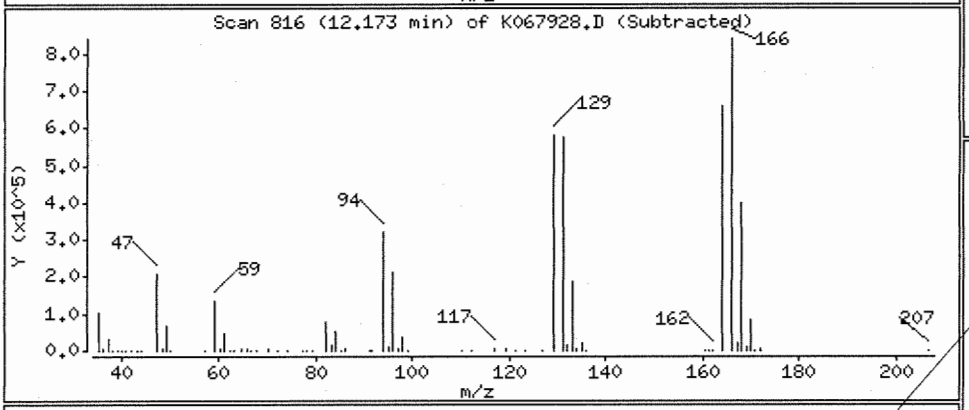
Column diameter: 0.32

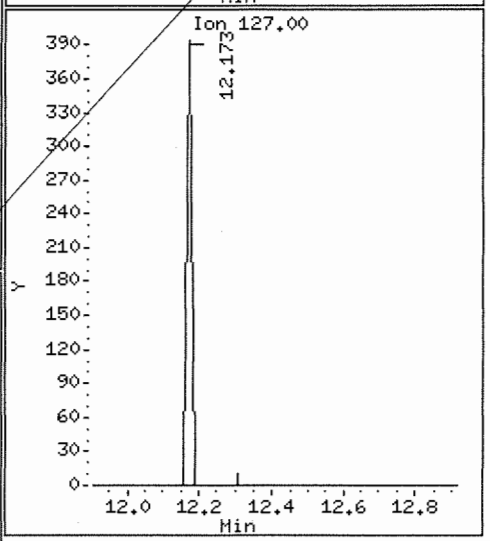
59 Dibromochloromethane

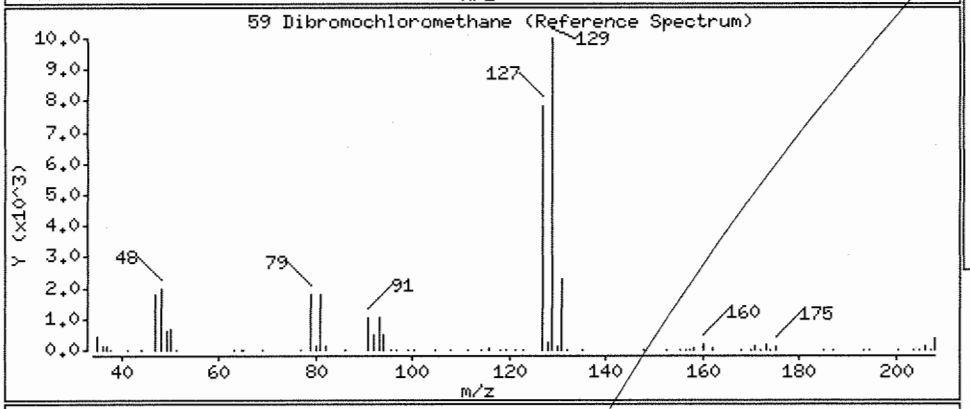
Concentration: 2640 ug/L

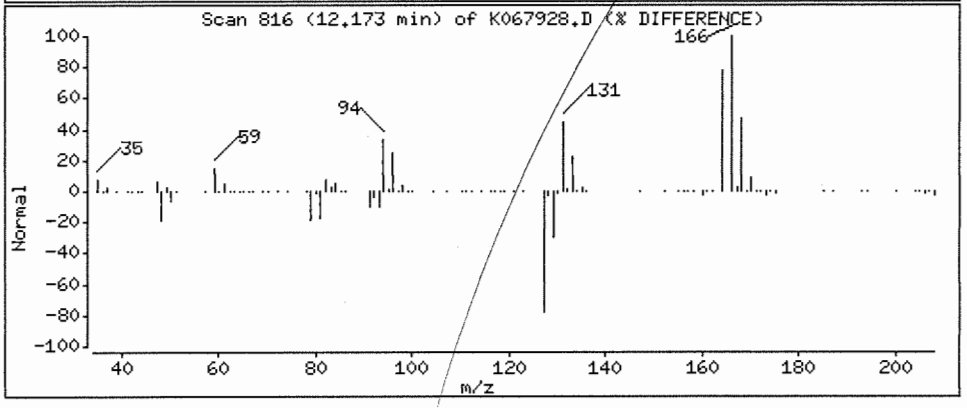












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-53-GW26
Lab Code: D0601625-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloromethane	ND	U	0.24	1.0	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	**1.4**		0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromomethane	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloroethane	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Acetone	**1.8**	J	0.91	10	1	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	**0.25**	J	0.14	2.0	1	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	ND	U	0.24	10	1	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	**29**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	ND	U	0.66	10	1	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	ND	U	0.17	0.50	1	10/26/2006	10/26/2006	K1025W02	
Chloroform	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
Benzene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	**0.86**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	10/26/2006	10/26/2006	K1025W02	
Toluene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	**0.76**		0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	ND	U	0.49	10	1	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	ND	U	0.12	1.0	1	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-53-GW26
Lab Code: D0601625-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	10/26/2006	10/26/2006	K1025W02	
Ethylbenzene	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	ND	U	0.10	1.5	1	10/26/2006	10/26/2006	K1025W02	
Styrene	ND	U	0.070	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromoform	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	ND	U	0.13	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	10/26/2006	10/26/2006	K1025W02	
Naphthalene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	112	79-135	10/26/2006	
4-Bromofluorobenzene - SS	107	82-124	10/26/2006	
Dibromofluoromethane - SS	116	84-127	10/26/2006	
Toluene-d8 - SS	103	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D
Lab Smp Id: D0601625-008 Client Smp ID: T-53-GW26
Inj Date : 26-OCT-2006 05:39
Operator : X Inst ID: MSK.i
Smp Info : D0601625-008
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

10/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	9.730	9.733	(1.000)	2457837	10.0000	
* 2	Chlorobenzene-d5	117	13.062	13.065	(1.000)	1350498	10.0000	
* 3	1,4-Dichlorobenzene-d4	152	15.665	15.668	(1.000)	397815	10.0000	
$ 4	Dibromofluoromethane	113	8.927	8.930	(0.917)	831697	11.6421	11.6
$ 5	1,2-Dichloroethane-d4	65	9.328	9.331	(0.959)	821658	11.2472	11.2
$ 6	Toluene-d8	98	11.470	11.473	(0.878)	1812068	10.3079	10.3
$ 7	Bromofluorobenzene	174	14.341	14.329	(0.915)	425525	10.7056	10.7
8	Dichlorodifluoromethane	85	Compound Not Detected.					
10	Chloromethane	50	Compound Not Detected.					
11	Vinyl chloride	62	4.078	4.081	(0.419)	65550	1.35349	1.35
12	Bromomethane	94	Compound Not Detected.					
13	Chloroethane	64	Compound Not Detected.					
14	Trichlorofluoromethane	101	Compound Not Detected.					
15	1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	6.116	6.119	(0.629)	80230	1.80075	1.80(a)
21	Carbon disulfide	76	6.488	6.490	(0.667)	52990	0.24591	0.246(a)
22	Methylene chloride	84	Compound Not Detected.					
26	trans-1,2-Dichloroethene	96	Compound Not Detected.					
27	tert-Butylmethylether	73	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	Vinyl acetate	43	Compound Not Detected.					

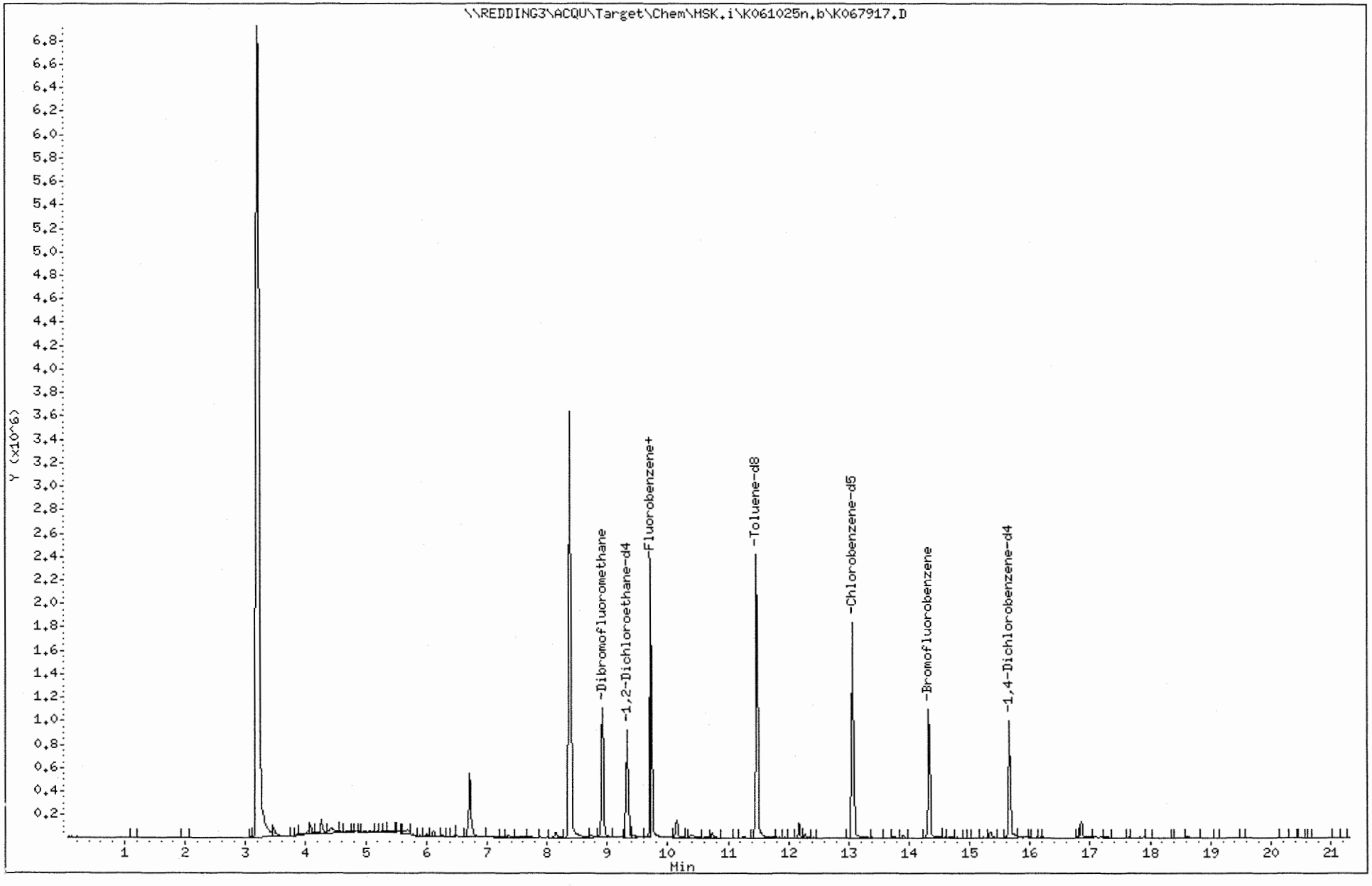
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.391	8.379	(0.862)	1962645	28.8485	28.8
35	2-Butanone	43	8.347	8.350	(0.858)	19553	1.60492	1.60(aQ)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.730	9.421	(1.000)	34882	0.39464	0.395(a)
45	Trichloroethene	95	10.147	10.149	(1.043)	60220	0.86052	0.860
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	12.184	12.172	(0.933)	50097	0.76212	0.762
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	19.145	19.148	(1.222)	879	1.08328	1.08
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D
Date : 26-OCT-2006 05:39
Client ID: T-53-GW26
Sample Info: D0601625-008
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D

Date : 26-OCT-2006 05:39

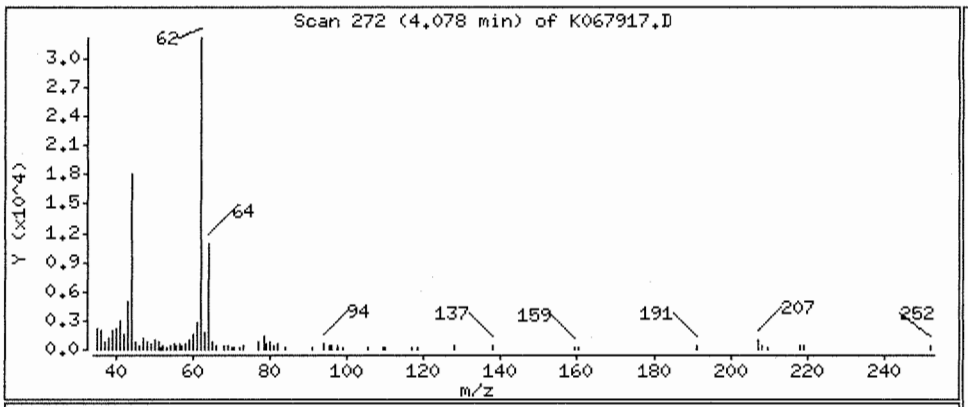
Client ID: T-53-GW26 Instrument: MSK.i

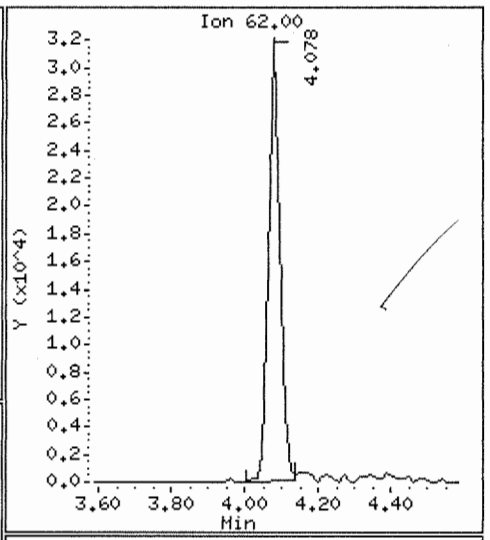
Sample Info: D0601625-008

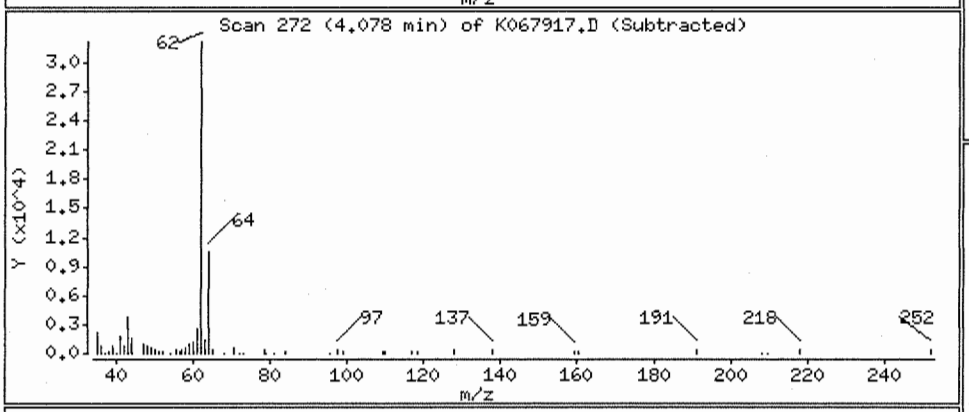
Purge Volume: 10.0 Operator: X

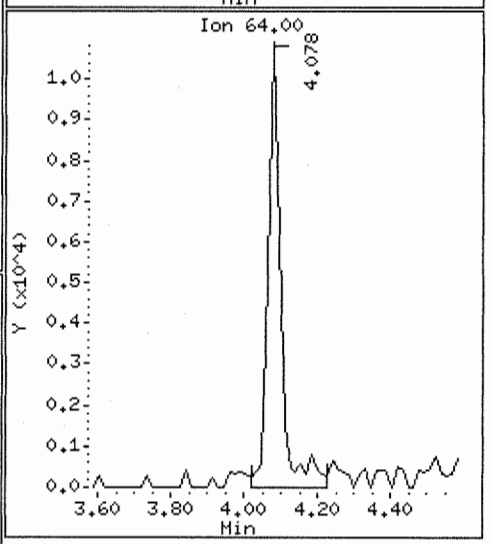
Column phase: DB-624 Column diameter: 0.32

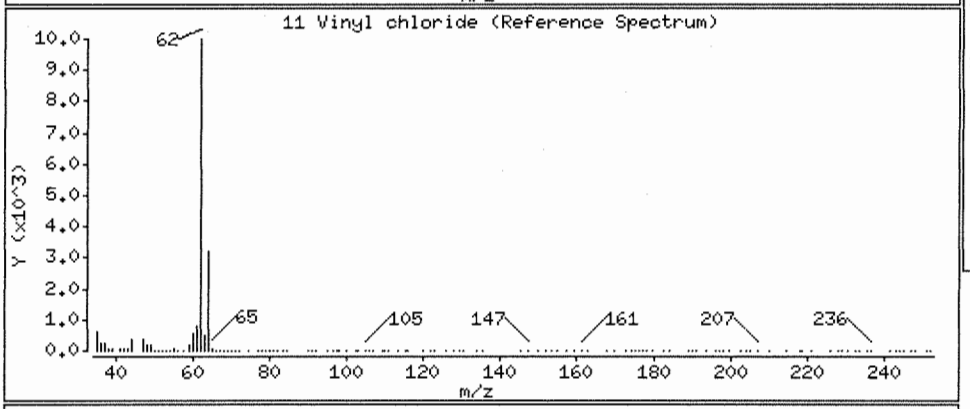
11 Vinyl chloride Concentration: 1.35 ug/L

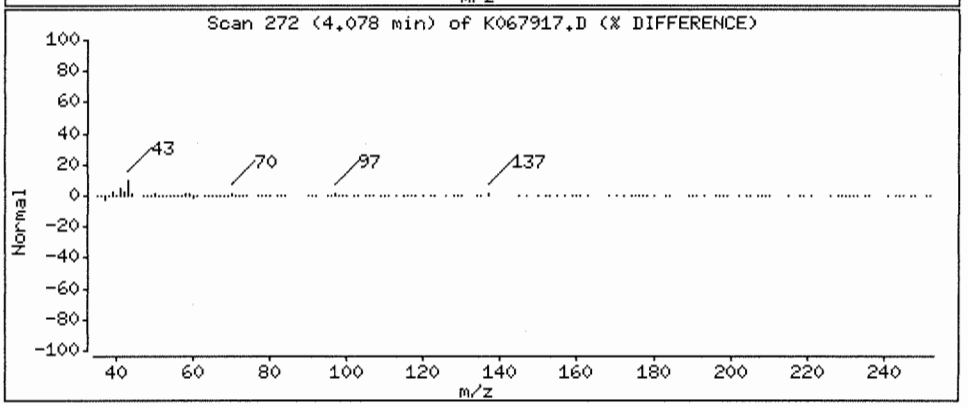












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D

Date : 26-OCT-2006 05:39

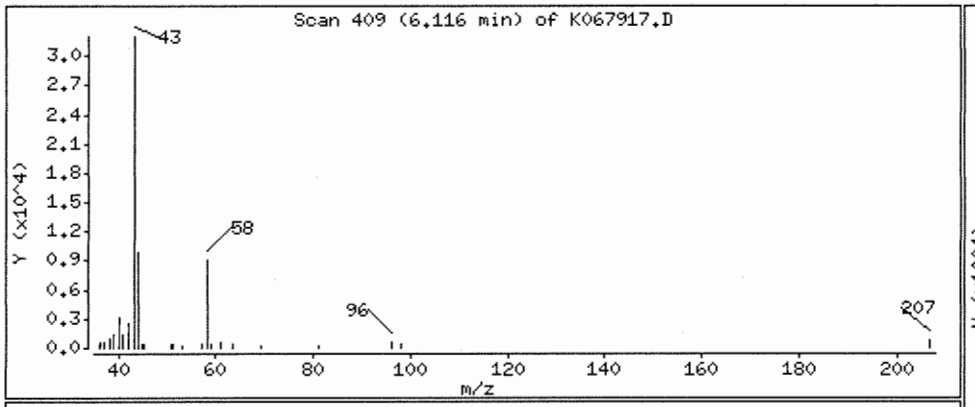
Client ID: T-53-GW26 Instrument: MSK.i

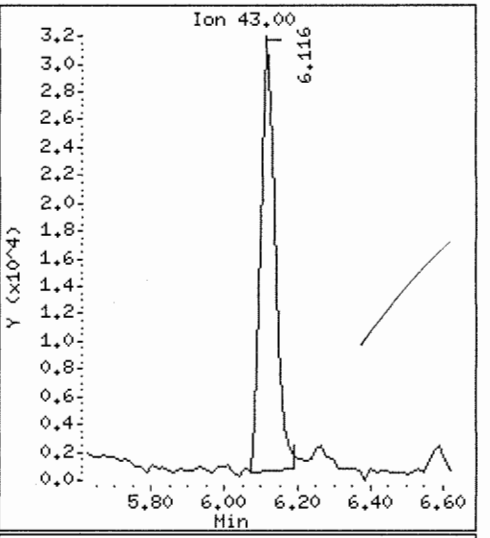
Sample Info: D0601625-008

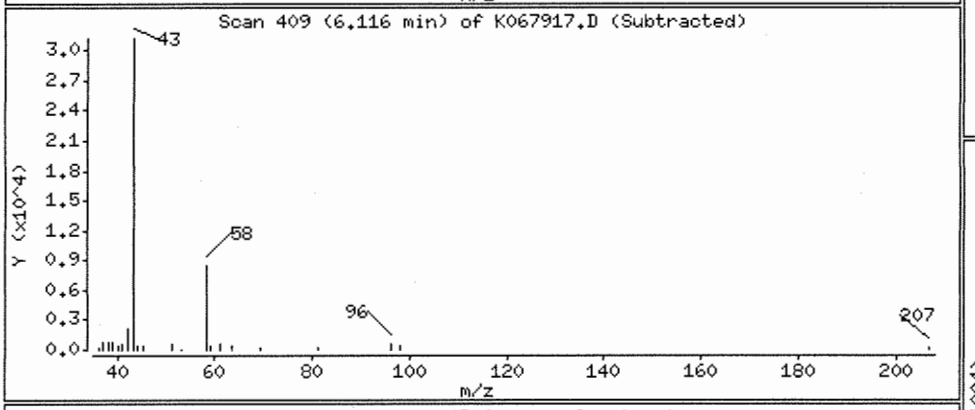
Purge Volume: 10.0 Operator: X

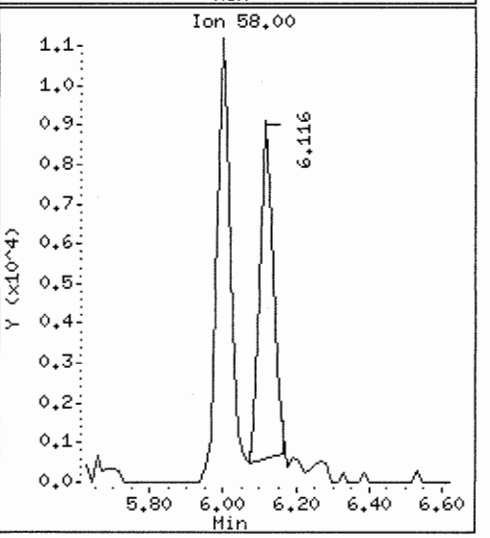
Column phase: DB-624 Column diameter: 0.32

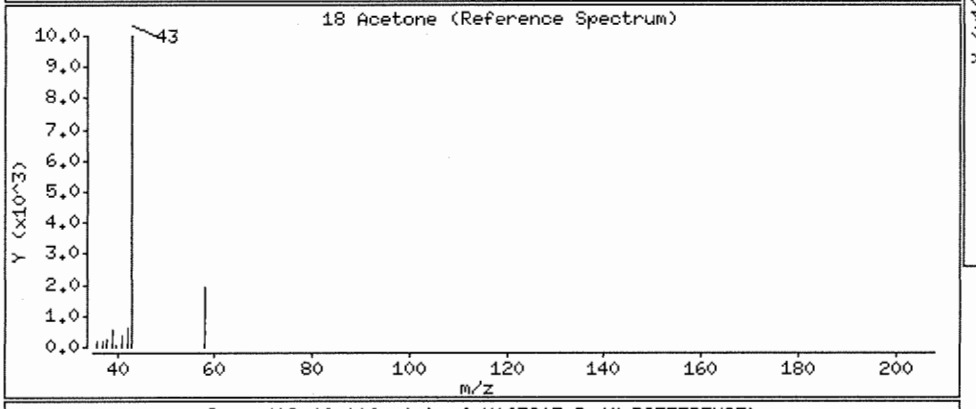
18 Acetone Concentration: 1.80 ug/L

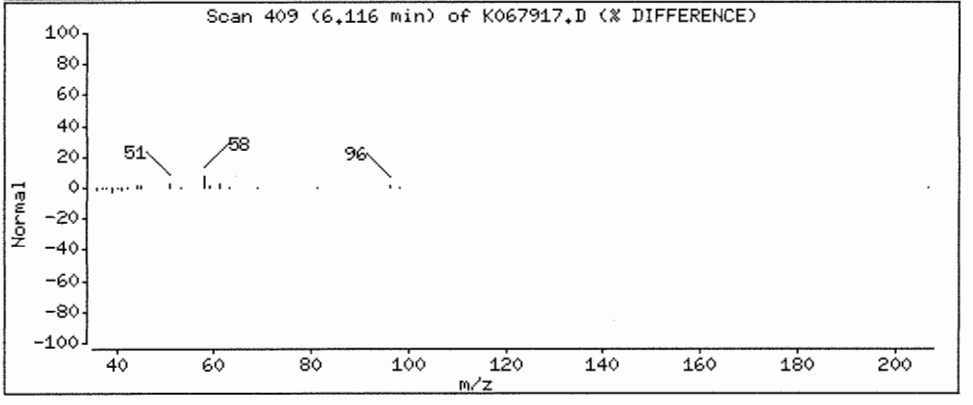












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D

Date : 26-OCT-2006 05:39

Client ID: T-53-GW26

Instrument: MSK.i

Sample Info: D0601625-008

Purge Volume: 10.0

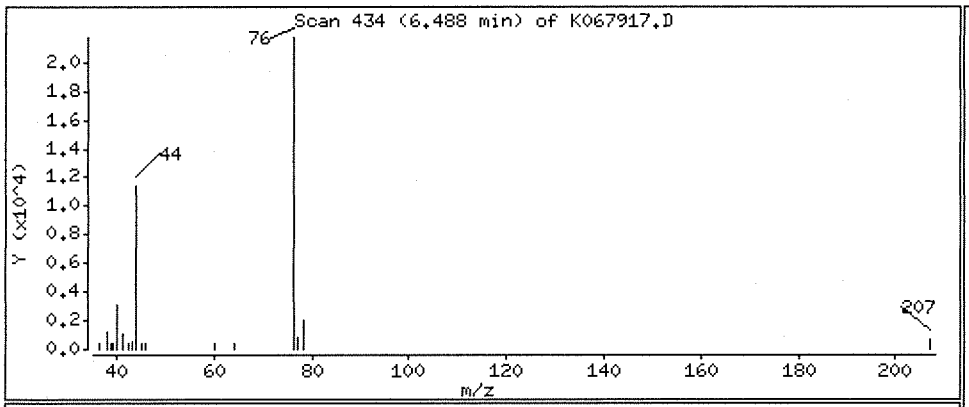
Operator: X

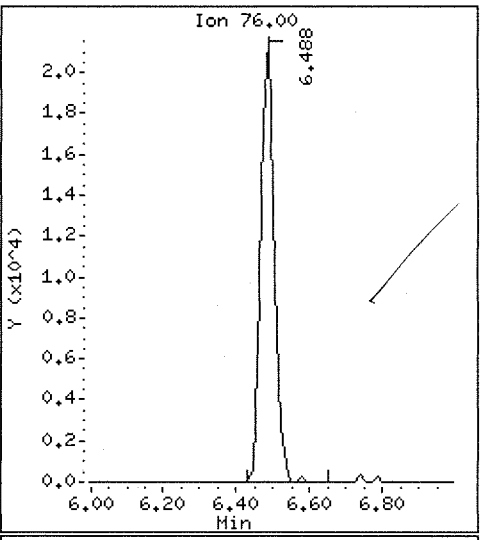
Column phase: DB-624

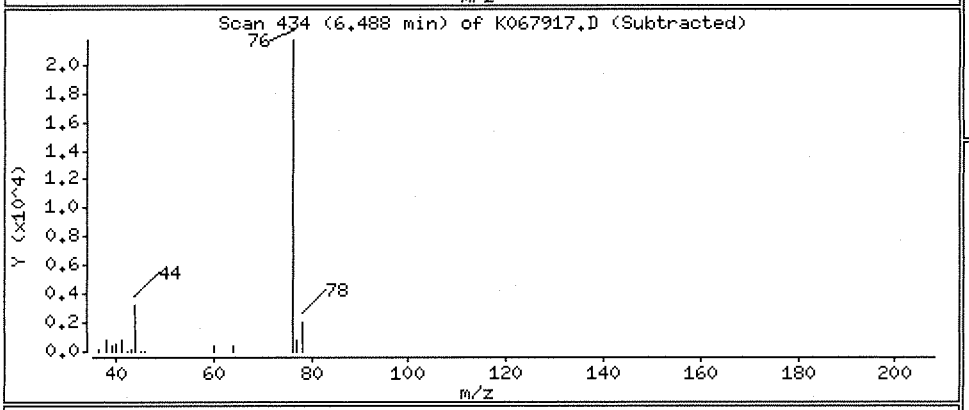
Column diameter: 0.32

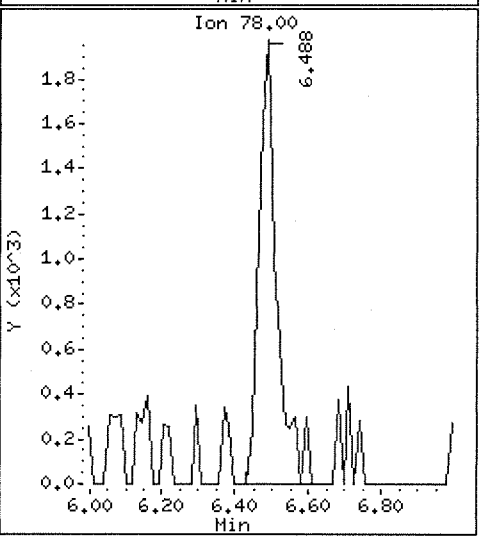
21 Carbon disulfide

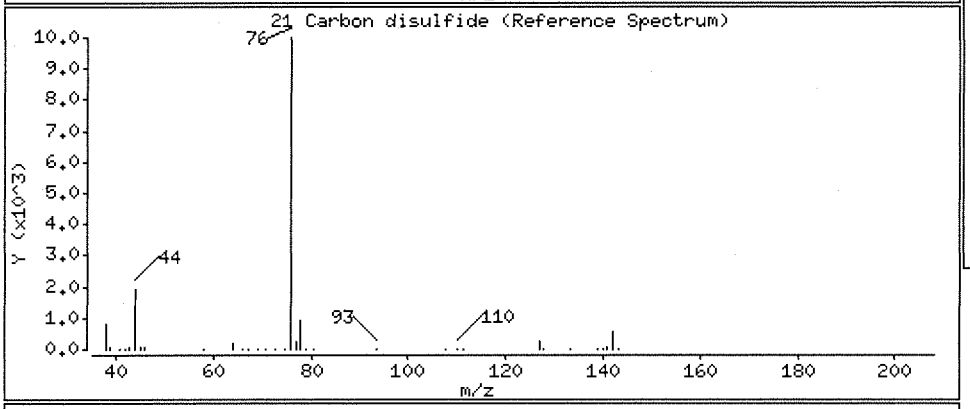
Concentration: 0.246 ug/L

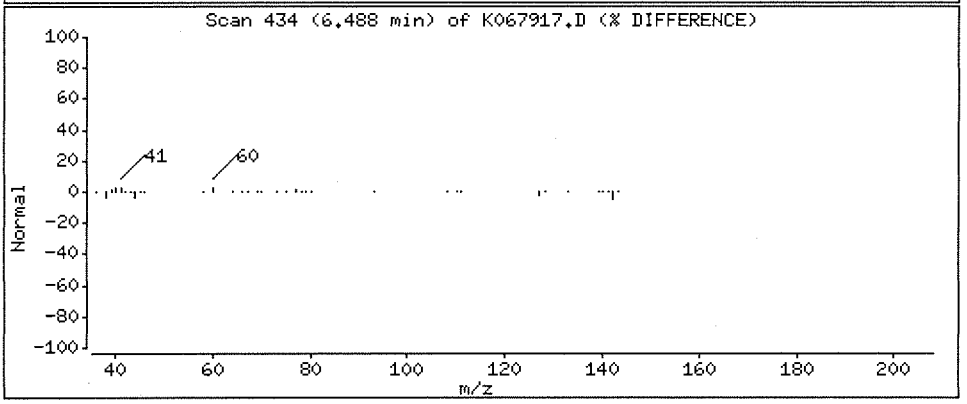












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D

Date : 26-OCT-2006 05:39

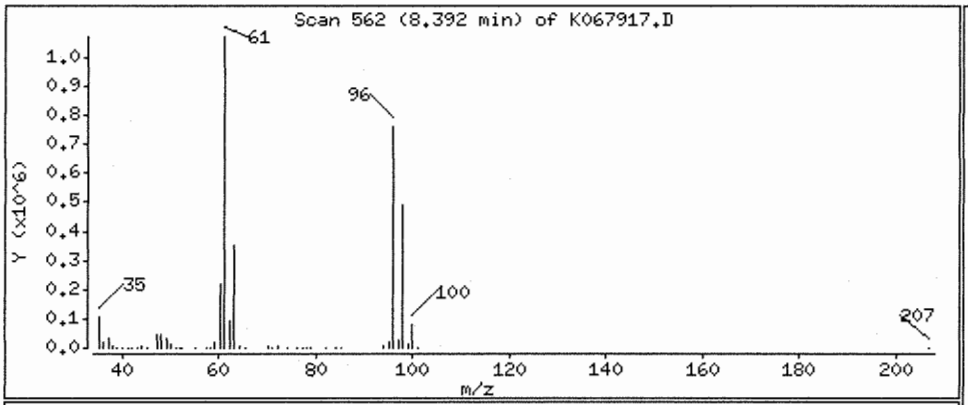
Client ID: T-53-GW26 Instrument: MSK.i

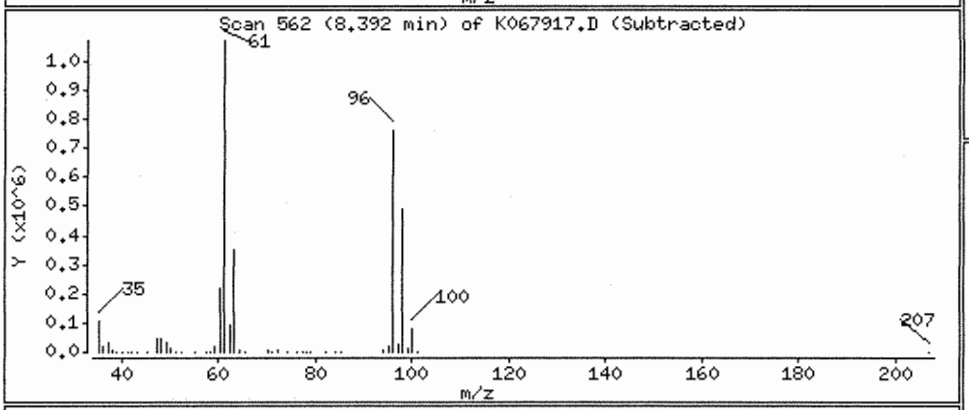
Sample Info: D0601625-008

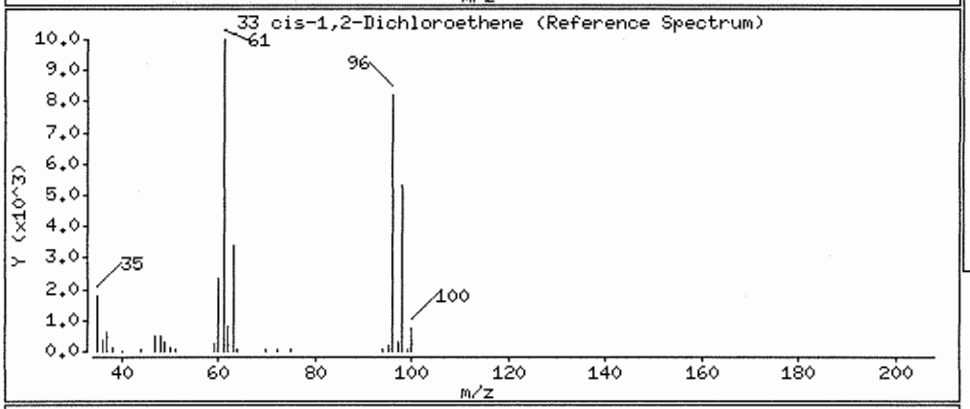
Purge Volume: 10.0 Operator: X

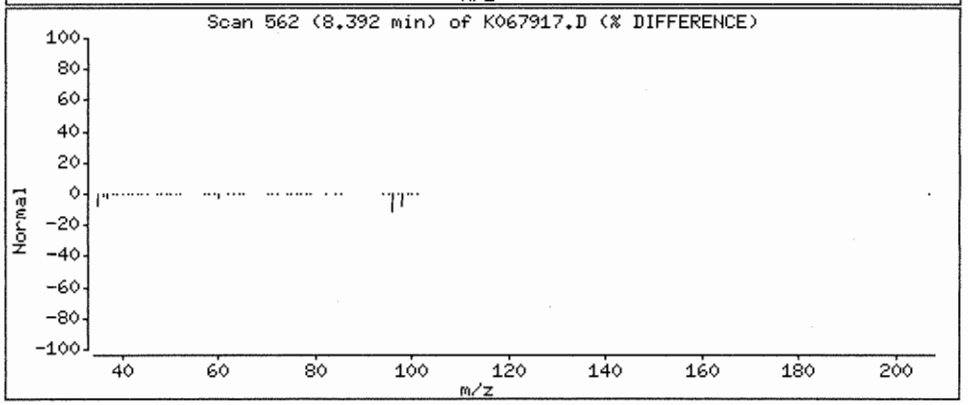
Column phase: DB-624 Column diameter: 0.32

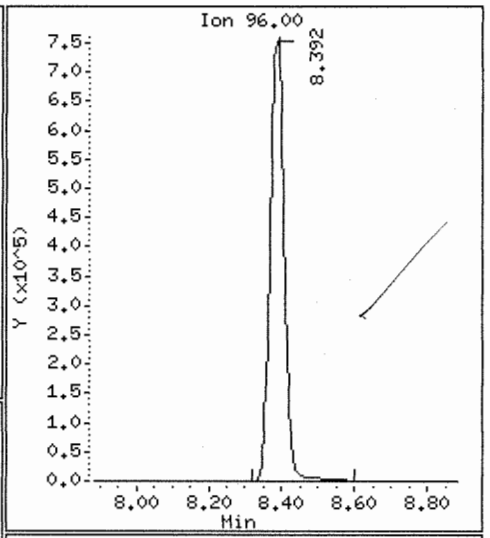
33 cis-1,2-Dichloroethene Concentration: 28.8 ug/L

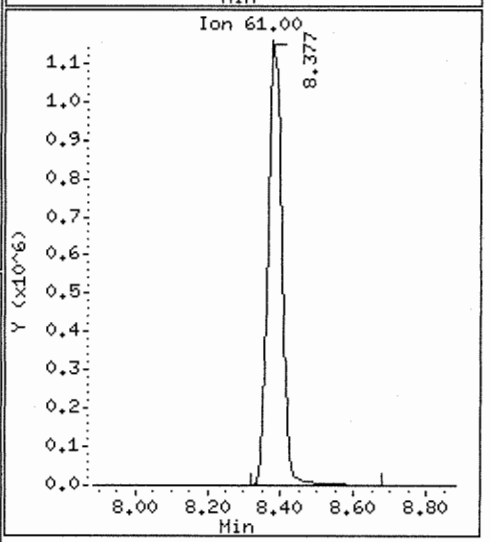












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D

Date : 26-OCT-2006 05:39

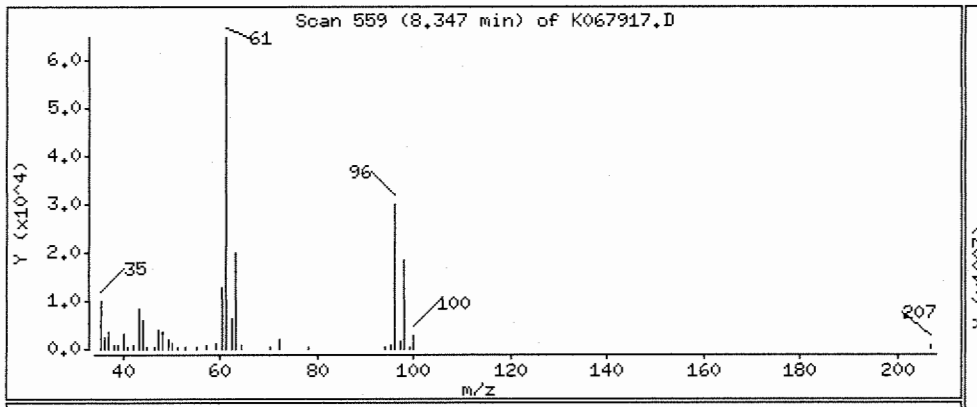
Client ID: T-53-GW26 Instrument: MSK.i

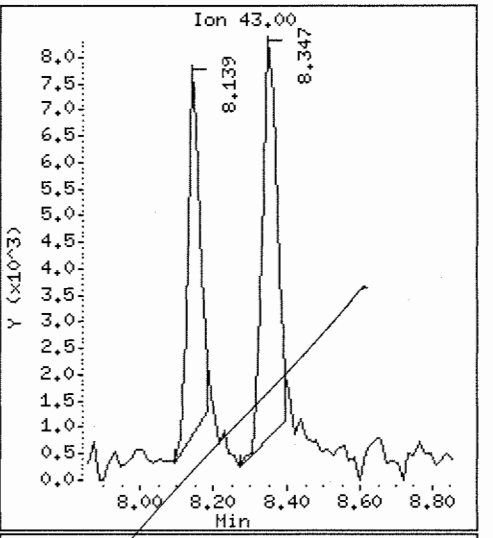
Sample Info: D0601625-008

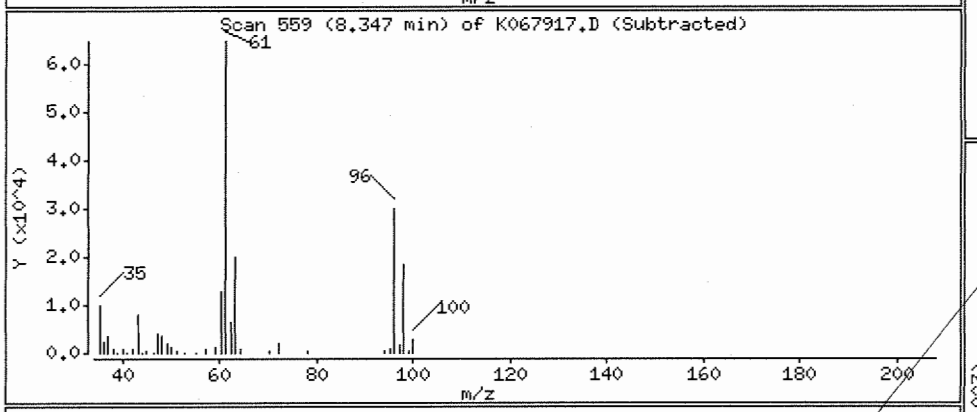
Purge Volume: 10.0 Operator: X

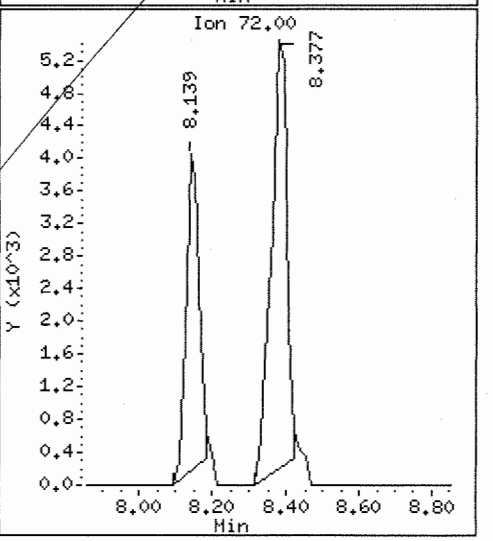
Column phase: DB-624 Column diameter: 0.32

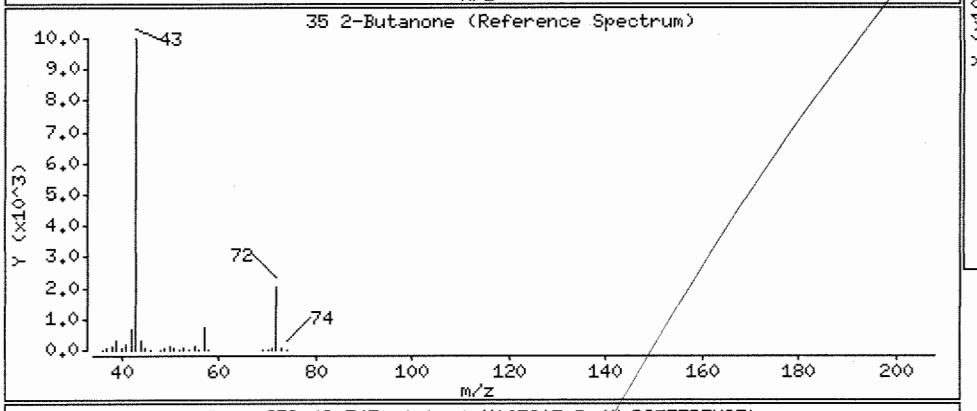
35 2-Butanone Concentration: 1.60 ug/L

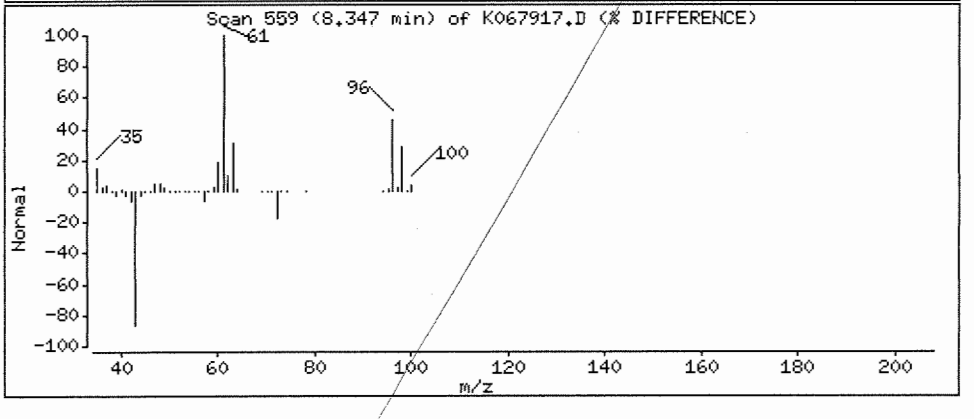












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D

Date : 26-OCT-2006 05:39

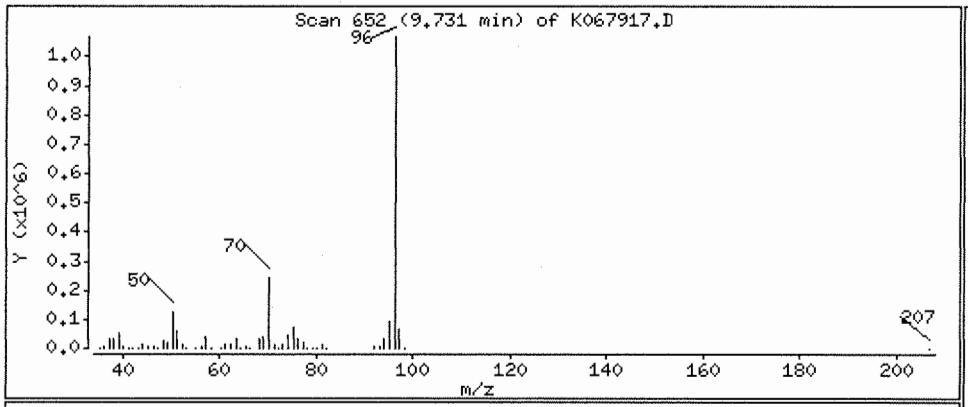
Client ID: T-53-GW26 Instrument: MSK.i

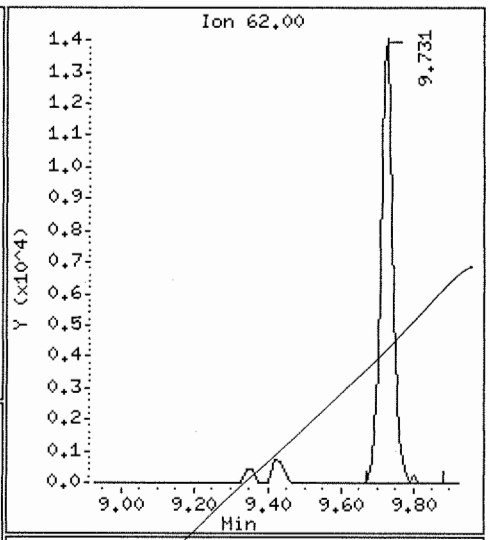
Sample Info: D0601625-008

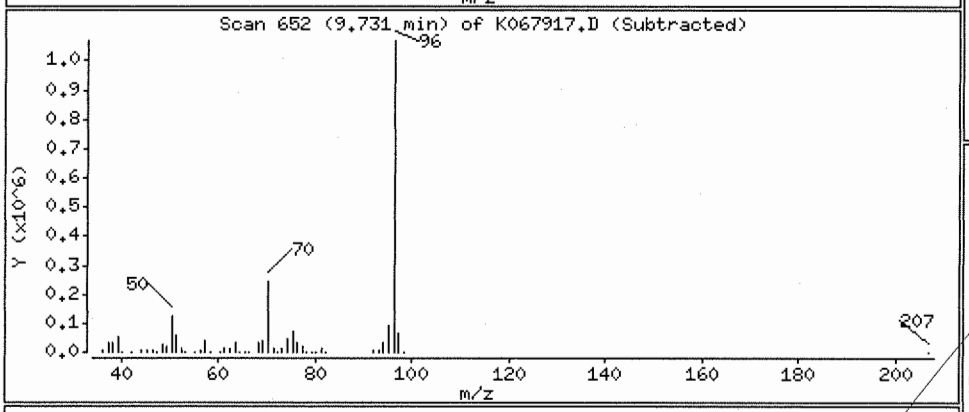
Purge Volume: 10.0 Operator: X

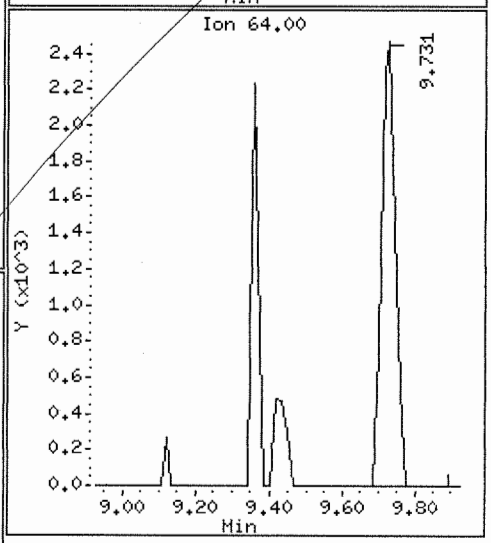
Column phase: DB-624 Column diameter: 0.32

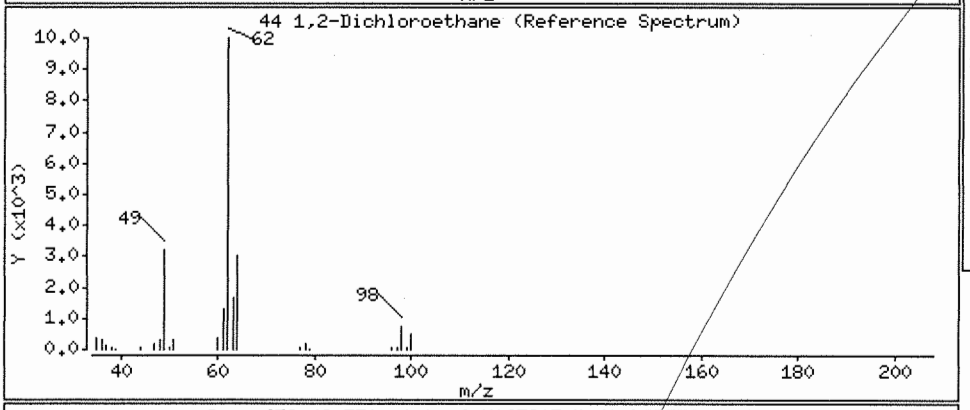
44 1,2-Dichloroethane Concentration: 0.395 ug/L

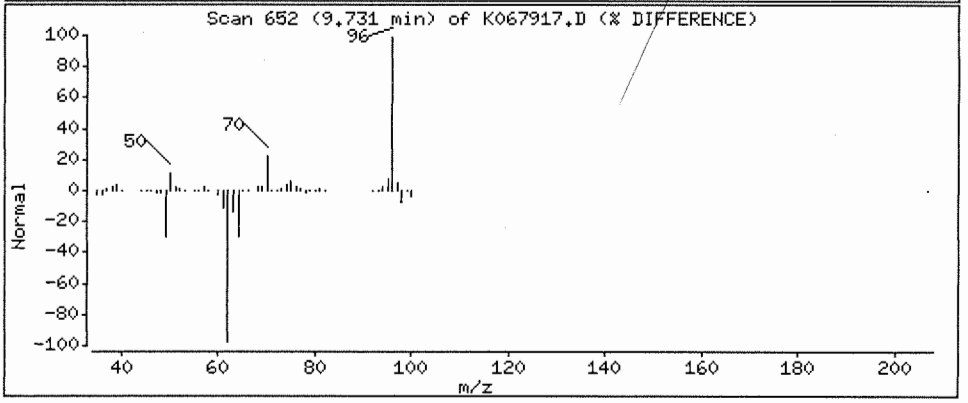












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D

Date : 26-OCT-2006 05:39

Client ID: T-53-GW26

Instrument: MSK.i

Sample Info: D0601625-008

Purge Volume: 10.0

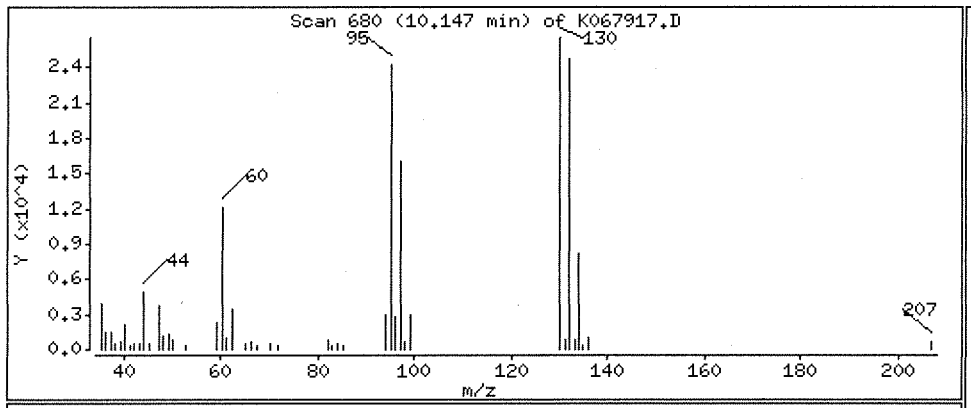
Operator: X

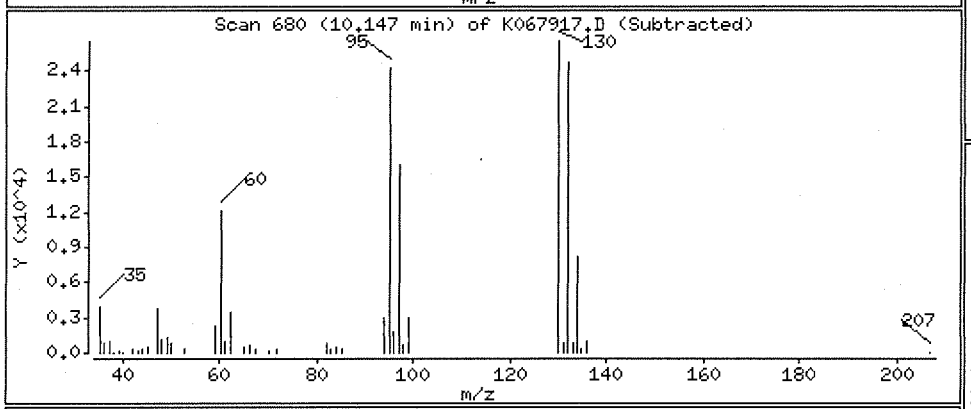
Column phase: DB-624

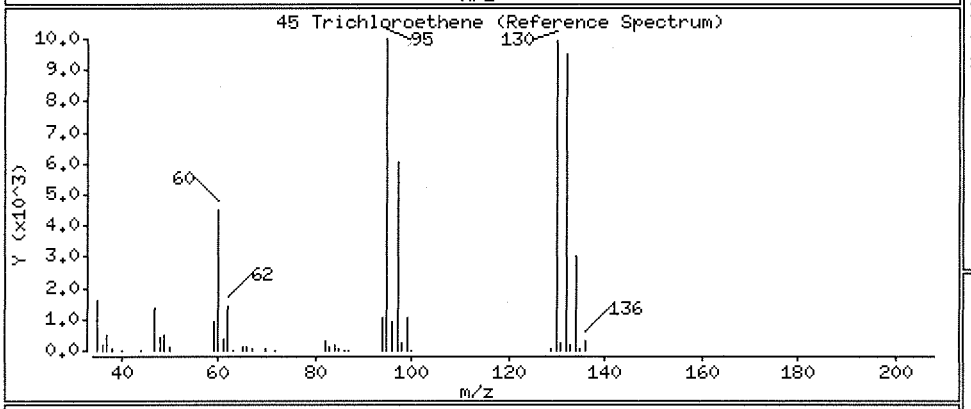
Column diameter: 0.32

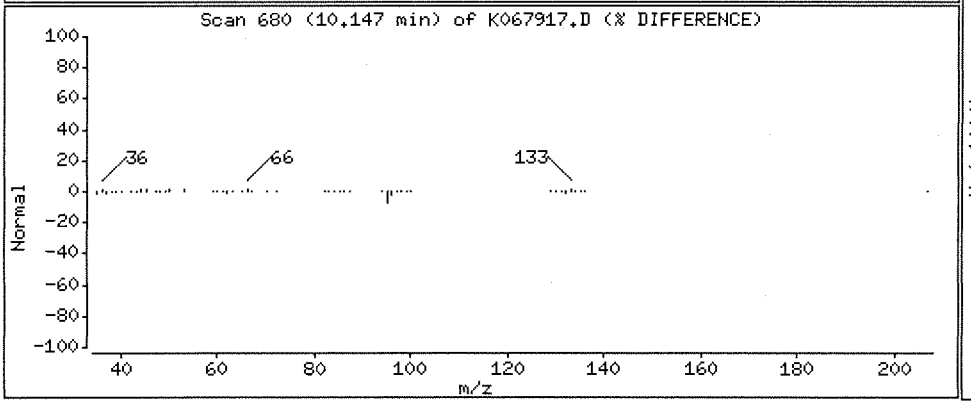
45 Trichloroethene

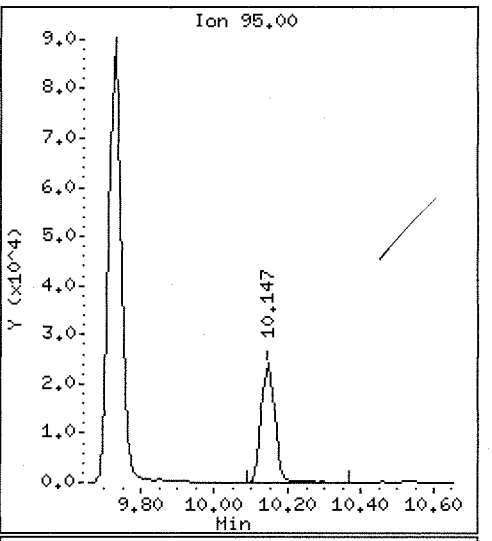
Concentration: 0.860 ug/L

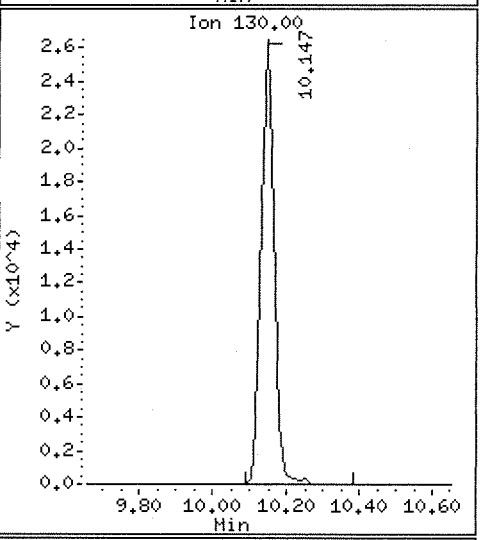


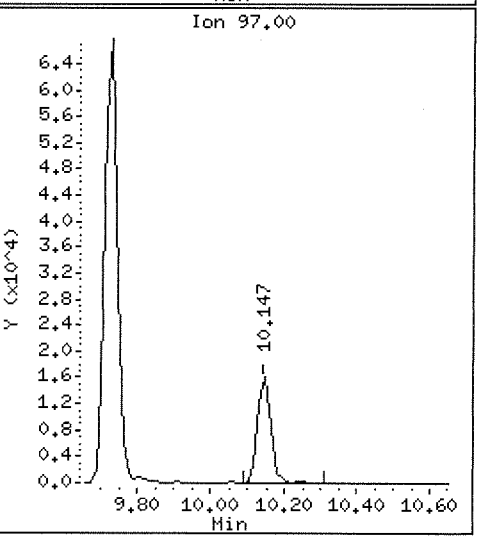












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D

Date : 26-OCT-2006 05:39

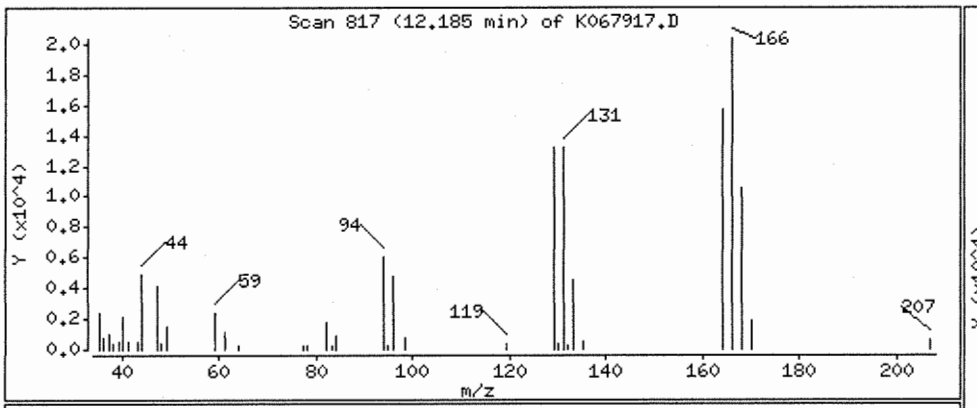
Client ID: T-53-GW26 Instrument: MSK.i

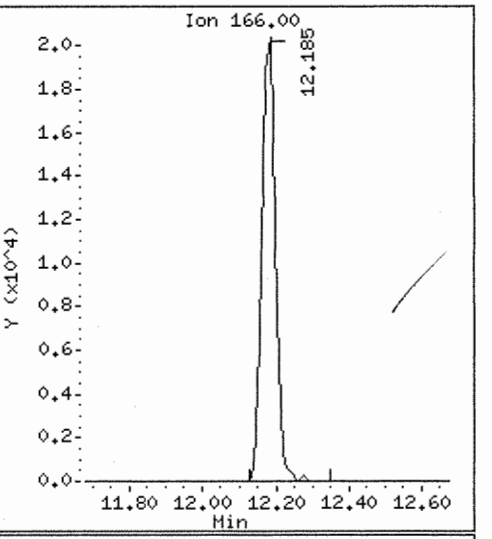
Sample Info: D0601625-008

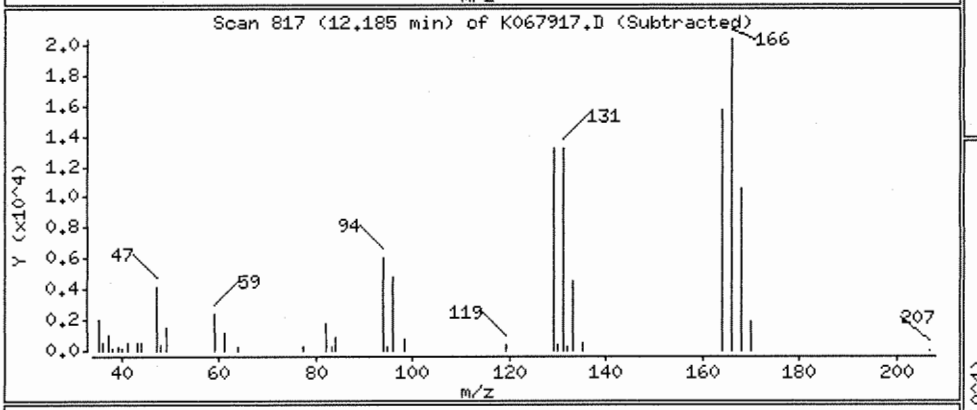
Purge Volume: 10.0 Operator: X

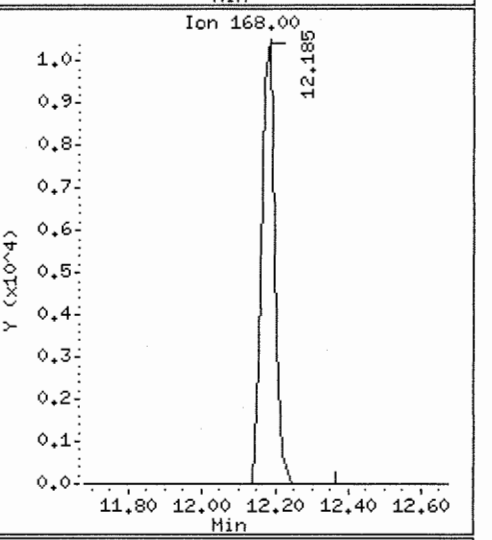
Column phase: DB-624 Column diameter: 0.32

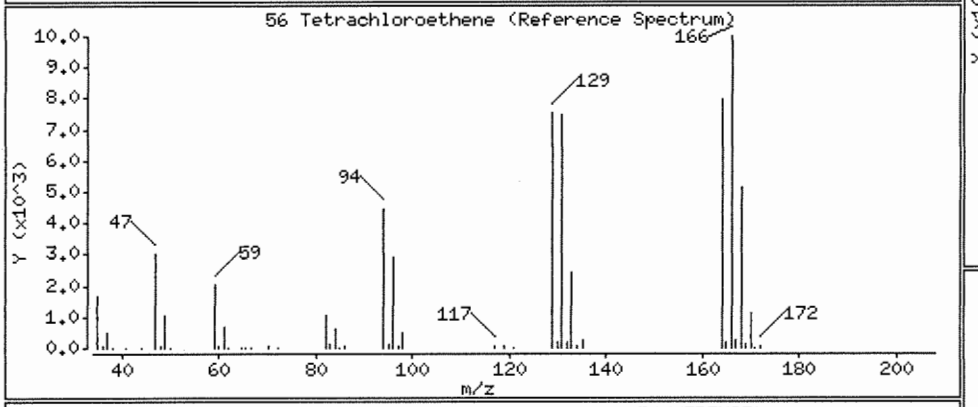
56 Tetrachloroethene Concentration: 0.762 ug/L

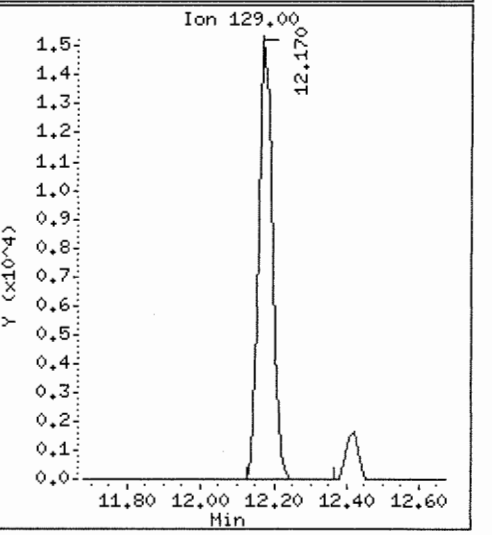


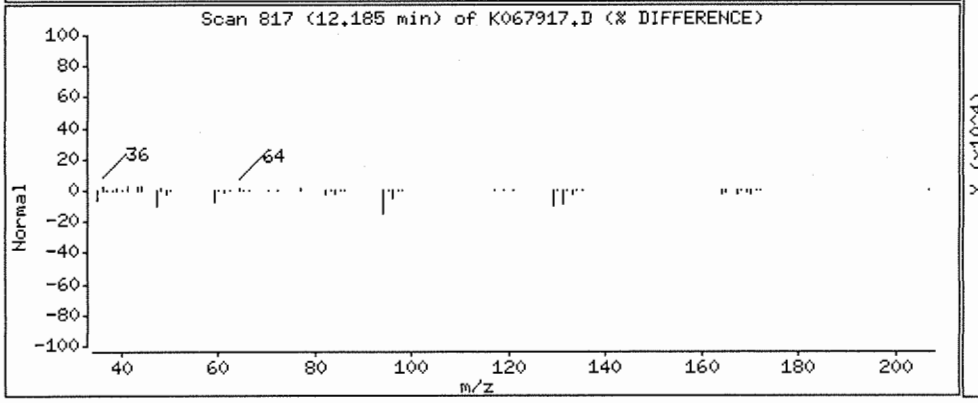












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067917.D

Date : 26-OCT-2006 05:39

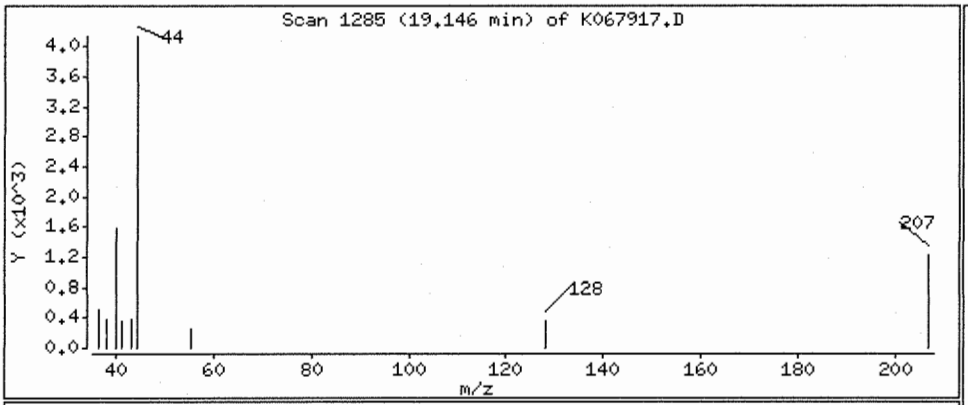
Client ID: T-53-GW26 Instrument: MSK.i

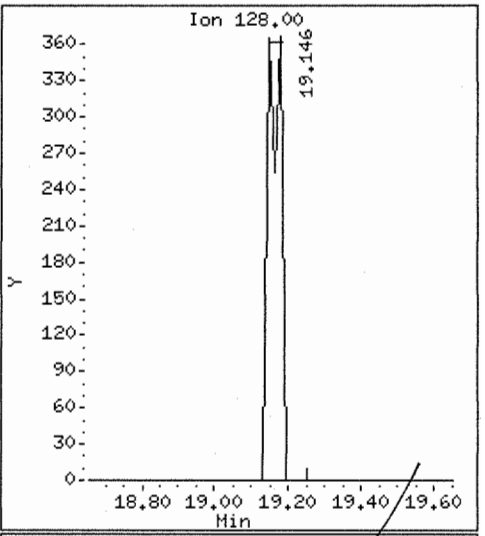
Sample Info: D0601625-008

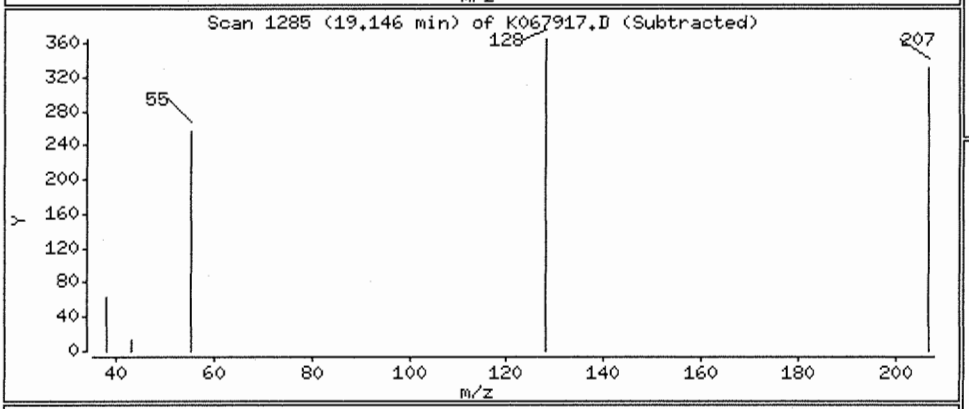
Purge Volume: 10.0 Operator: X

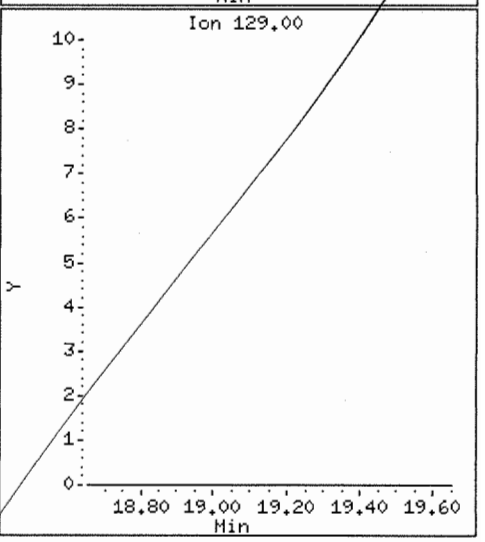
Column phase: DB-624 Column diameter: 0.32

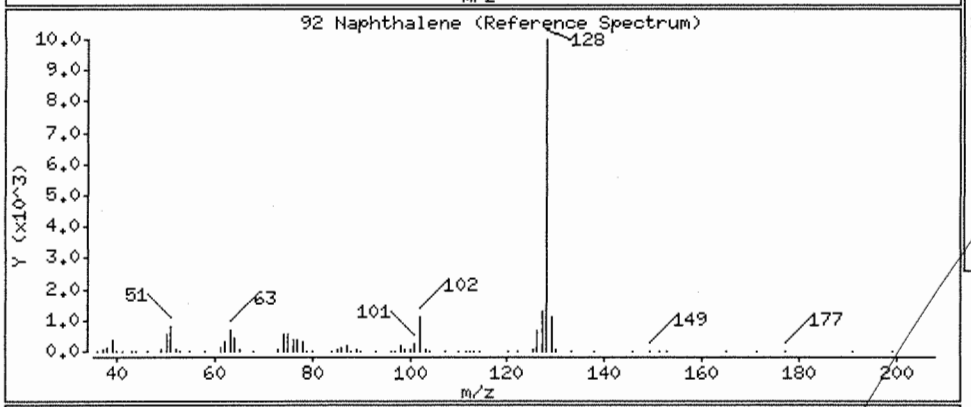
92 Naphthalene Concentration: 1.08 ug/L

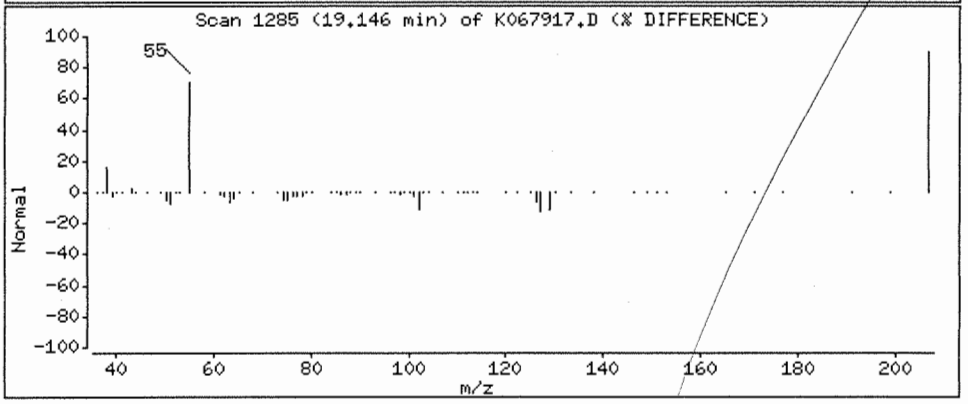












COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-53-GW38
Lab Code: D0601625-009
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloromethane	ND	U	0.24	1.0	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Chloride	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromomethane	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chloroethane	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Acetone	**6.0**	J	0.91	10	1	10/26/2006	10/26/2006	K1025W02	
Carbon Disulfide	**1.0**	J	0.14	2.0	1	10/26/2006	10/26/2006	K1025W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	10/26/2006	10/26/2006	K1025W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Vinyl Acetate	ND	U	0.24	10	1	10/26/2006	10/26/2006	K1025W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
cis-1,2-Dichloroethene	**0.48**	J	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Butanone (MEK)	**2.0**	J	0.66	10	1	10/26/2006	10/26/2006	K1025W02	
Bromochloromethane	ND	U	0.17	0.50	1	10/26/2006	10/26/2006	K1025W02	
Chloroform	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
Benzene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	10/26/2006	10/26/2006	K1025W02	
Trichloroethene (TCE)	**1.2**		0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	10/26/2006	10/26/2006	K1025W02	
Dibromomethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromodichloromethane	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	10/26/2006	10/26/2006	K1025W02	
Toluene	ND	U	0.13	0.50	1	10/26/2006	10/26/2006	K1025W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
Tetrachloroethene (PCE)	**0.63**		0.090	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
2-Hexanone	ND	U	0.49	10	1	10/26/2006	10/26/2006	K1025W02	
Dibromochloromethane	ND	U	0.12	1.0	1	10/26/2006	10/26/2006	K1025W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: 10/17/2006
Date Received: 10/19/2006

Volatile Organic Compounds

Sample Name: T-53-GW38
Lab Code: D0601625-009
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	10/26/2006	10/26/2006	K1025W02	
Chlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	10/26/2006	10/26/2006	K1025W02	
Ethylbenzene	ND	U	0.11	0.50	1	10/26/2006	10/26/2006	K1025W02	
Xylenes, Total	ND	U	0.10	1.5	1	10/26/2006	10/26/2006	K1025W02	
Styrene	ND	U	0.070	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromoform	ND	U	0.18	1.0	1	10/26/2006	10/26/2006	K1025W02	
Isopropylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
Bromobenzene	ND	U	0.13	1.0	1	10/26/2006	10/26/2006	K1025W02	
I,2,3-Trichloropropane	ND	U	0.20	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Propylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	10/26/2006	10/26/2006	K1025W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	10/26/2006	10/26/2006	K1025W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	10/26/2006	10/26/2006	K1025W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	10/26/2006	10/26/2006	K1025W02	
n-Butylbenzene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	10/26/2006	10/26/2006	K1025W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	10/26/2006	10/26/2006	K1025W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	10/26/2006	10/26/2006	K1025W02	
Naphthalene	ND	U	0.10	1.0	1	10/26/2006	10/26/2006	K1025W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	10/26/2006	10/26/2006	K1025W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	119	79-135	10/26/2006	
4-Bromofluorobenzene - SS	106	82-124	10/26/2006	
Dibromofluoromethane - SS	118	84-127	10/26/2006	
Toluene-d8 - SS	102	80-117	10/26/2006	

Comments: _____

Columbia Analytical Services - Redding

VOLATILE REPORT METHOD 8260

Data file : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067919.D
Lab Smp Id: D0601625-009 Client Smp ID: T-53-GW38
Inj Date : 26-OCT-2006 06:32
Operator : X Inst ID: MSK.i
Smp Info : D0601625-009
Misc Info :
Comment :
Method : \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\8260w10(0.5).m
Meth Date : 26-Oct-2006 12:22 tchilder Quant Type: ISTD
Cal Date : 13-OCT-2006 13:56 Cal File: K067565.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LJ1063.sub
Target Version: 4.12
Processing Host: RDD-MV-1

Concentration Formula: Amt * DF * Uf*10/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vo	10.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

8 10/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.720	9.733	(1.000)	2151591	10.0000	
* 2 Chlorobenzene-d5	117	13.067	13.065	(1.000)	1154657	10.0000	
* 3 1,4-Dichlorobenzene-d4	152	15.655	15.668	(1.000)	338358	10.0000	
$ 4 Dibromofluoromethane	113	8.917	8.930	(0.917)	740649	11.8433	11.8
$ 5 1,2-Dichloroethane-d4	65	9.333	9.331	(0.960)	762851	11.9285	11.9
$ 6 Toluene-d8	98	11.475	11.473	(0.878)	1540372	10.2485	10.2
$ 7 Bromofluorobenzene	174	14.331	14.329	(0.915)	358742	10.6114	10.6
8 Dichlorodifluoromethane	85	Compound Not Detected.					
10 Chloromethane	50	Compound Not Detected.					
11 Vinyl chloride	62	Compound Not Detected.					
12 Bromomethane	94	Compound Not Detected.					
13 Chloroethane	64	Compound Not Detected.					
14 Trichlorofluoromethane	101	Compound Not Detected.					
15 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	6.121	6.119	(0.630)	114908	5.95683	5.96(a)
21 Carbon disulfide	76	6.477	6.490	(0.666)	189777	1.00604	1.01(a)
22 Methylene chloride	84	Compound Not Detected.					
26 trans-1,2-Dichloroethene	96	Compound Not Detected.					
27 tert-Butylmethylether	73	Compound Not Detected.					
28 1,1-Dichloroethane	63	Compound Not Detected.					
30 Vinyl acetate	43	Compound Not Detected.					

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067919.D

Date : 26-OCT-2006 06:32

Client ID: T-53-GW38

Instrument: MSK.i

Sample Info: D0601625-009

Purge Volume: 10.0

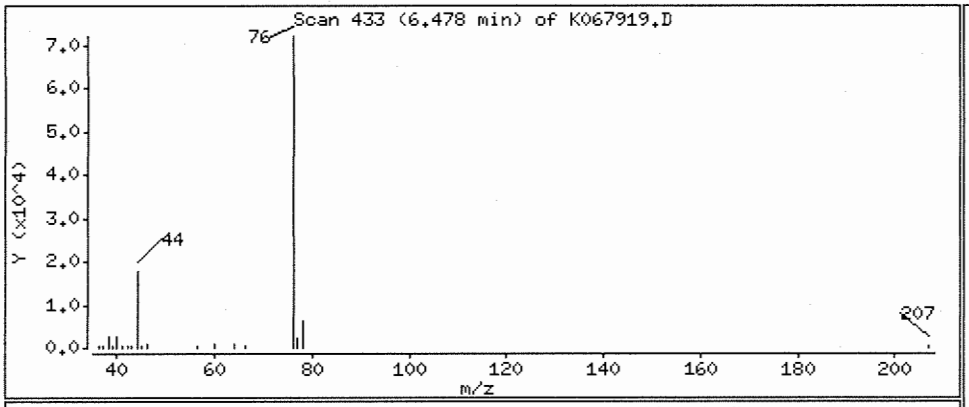
Operator: X

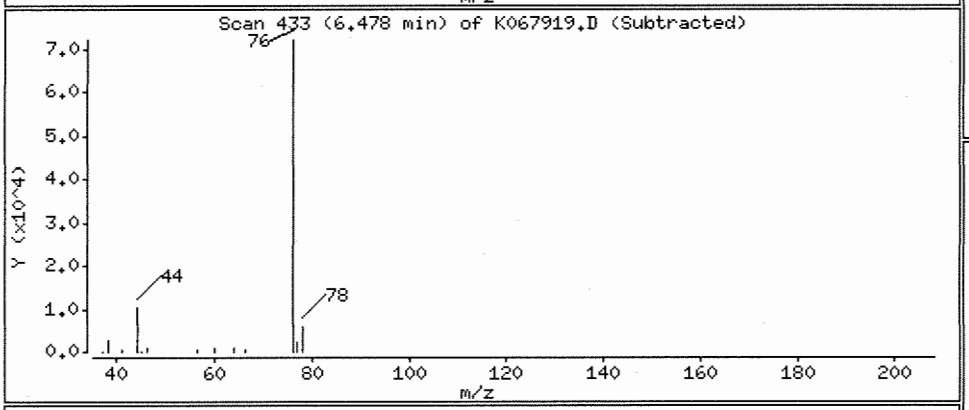
Column phase: DB-624

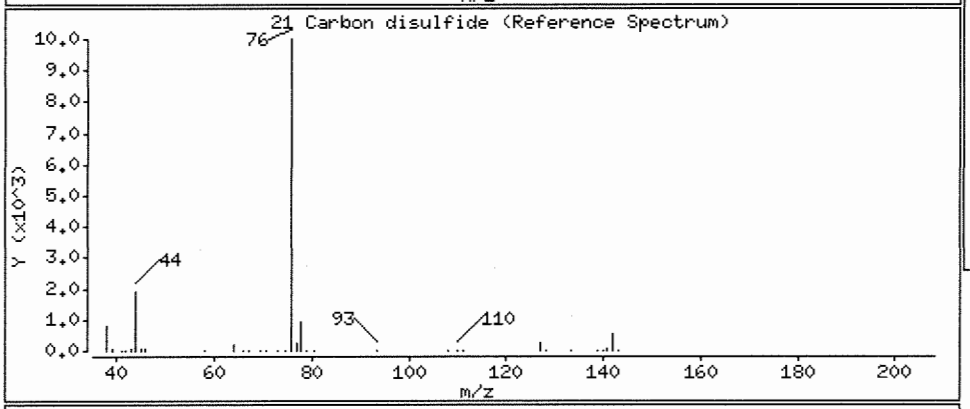
Column diameter: 0.32

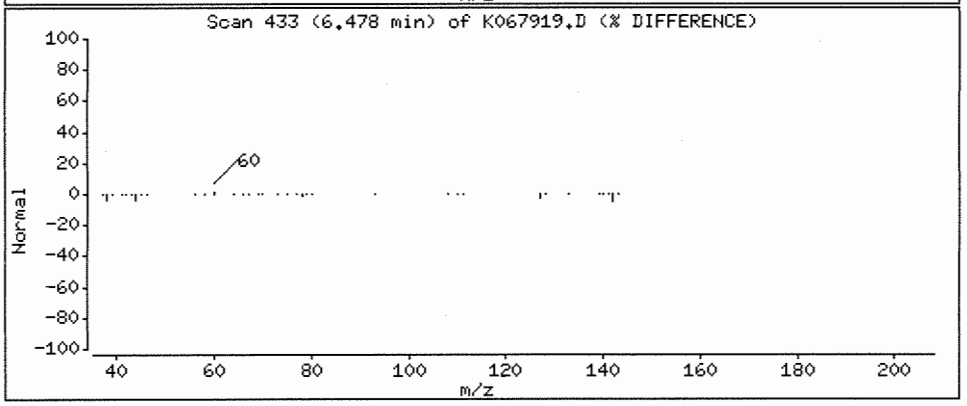
21 Carbon disulfide

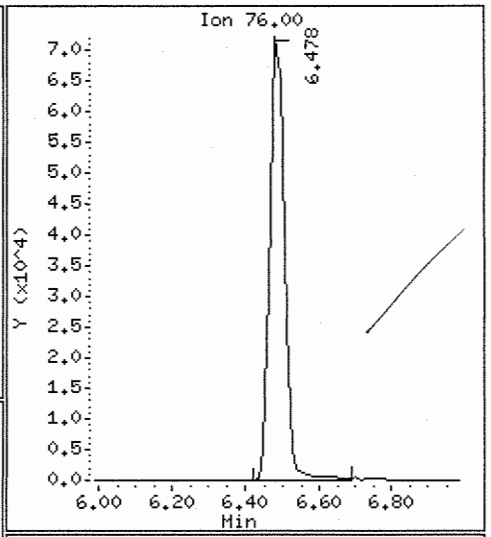
Concentration: 1.01 ug/L

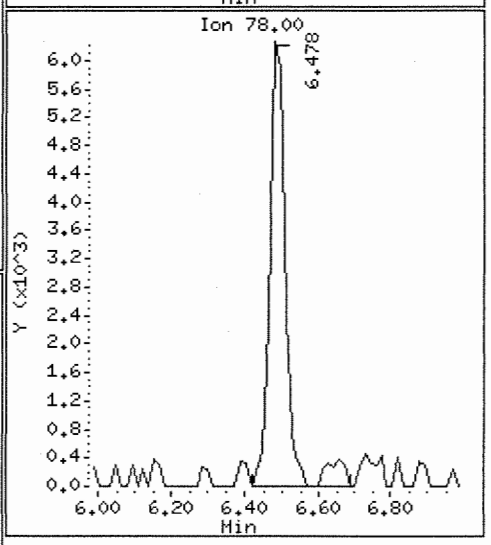












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067919.D

Date : 26-OCT-2006 06:32

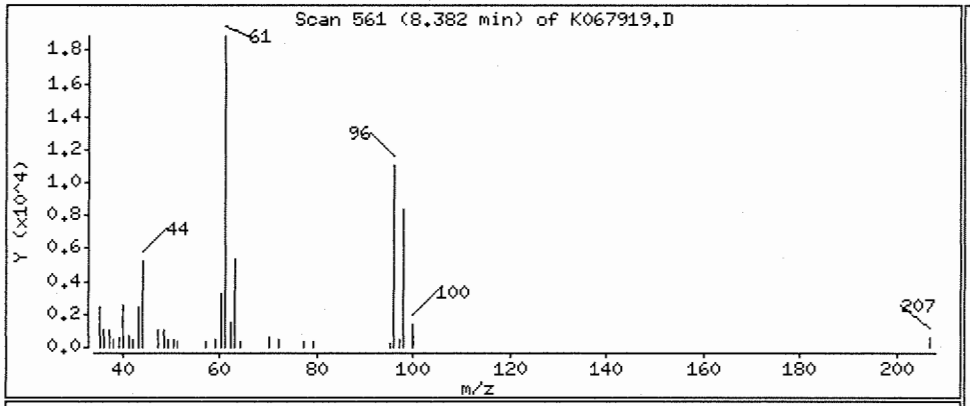
Client ID: T-53-GW38 Instrument: MSK.i

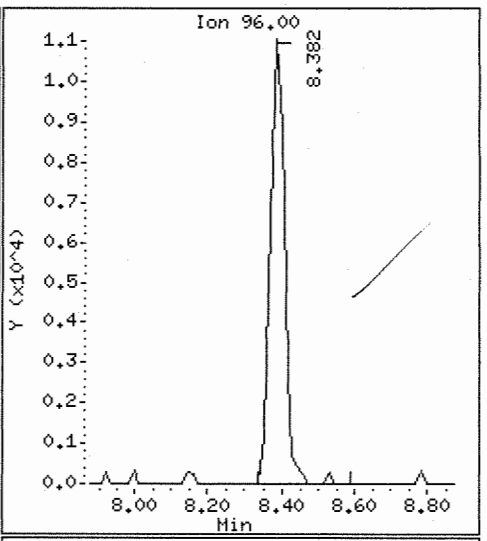
Sample Info: D0601625-009

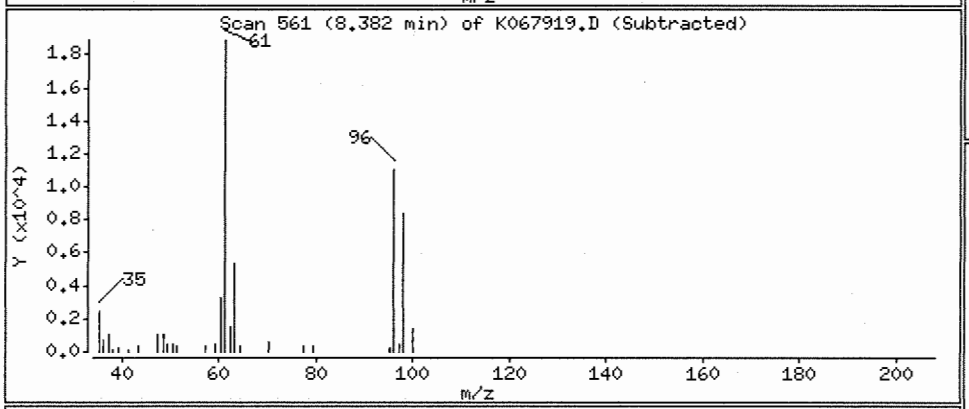
Purge Volume: 10.0 Operator: X

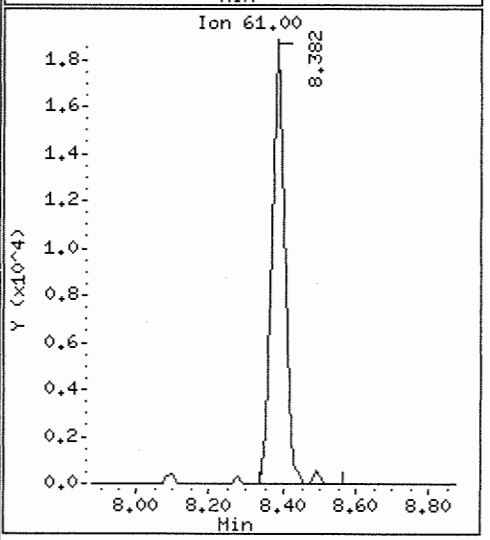
Column phase: DB-624 Column diameter: 0.32

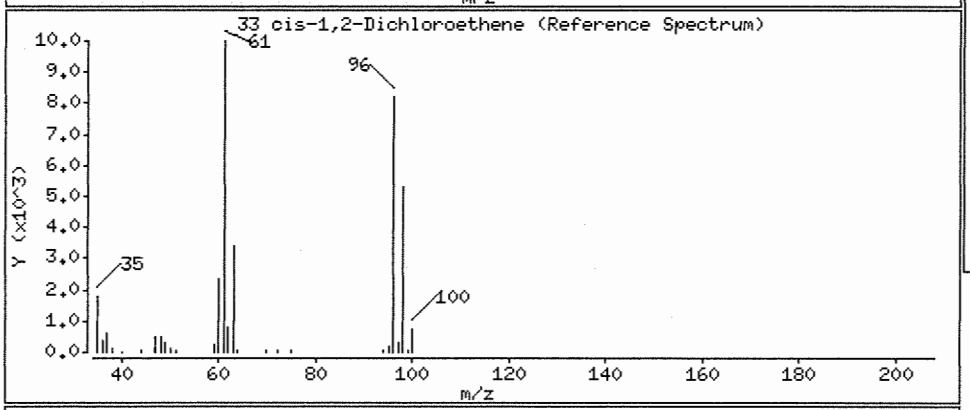
33 cis-1,2-Dichloroethene Concentration: 0.481 ug/L

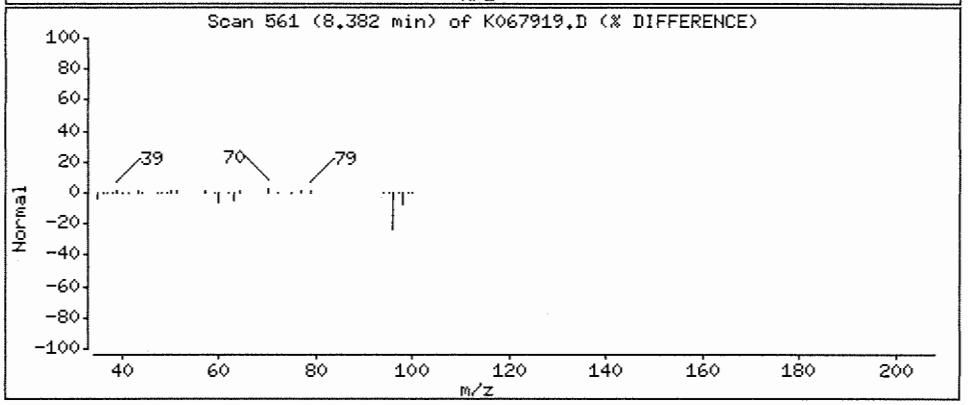












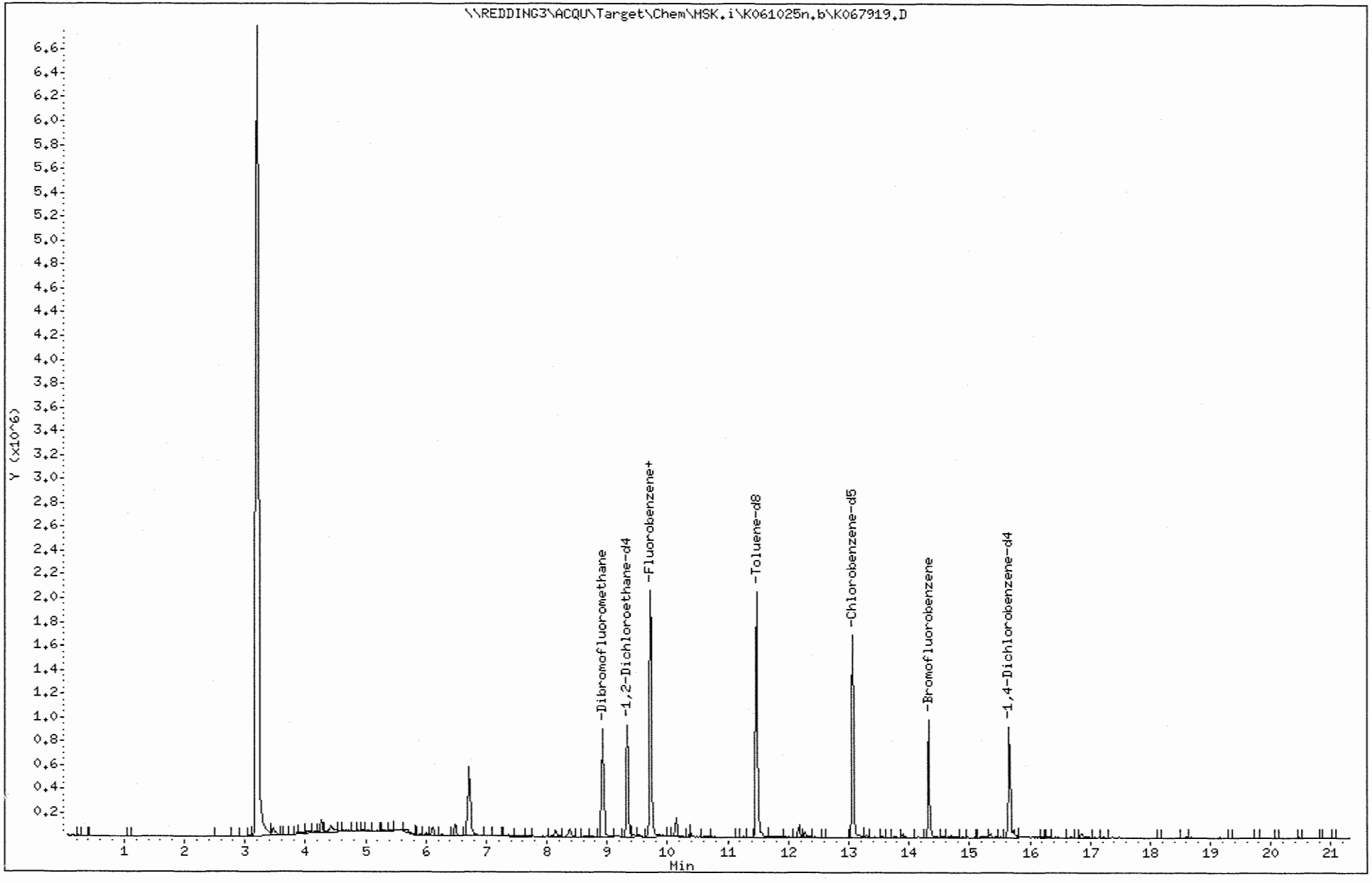
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
32	2,2-Dichloropropane	77	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	8.381	8.379	(0.862)	28628	0.48069	0.481(a)
35	2-Butanone	43	8.352	8.350	(0.859)	25175	2.00432	2.00(a)
36	Bromochloromethane	128	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
41	Carbon tetrachloride	119	Compound Not Detected.					
43	Benzene	78	Compound Not Detected.					
44	1,2-Dichloroethane	62	9.720	9.421	(1.000)	28151	0.36382	0.364(a)
45	Trichloroethene	95	10.136	10.149	(1.043)	70766	1.15515	1.16
46	1,2-Dichloropropane	63	Compound Not Detected.					
48	Dibromomethane	93	Compound Not Detected.					
49	Bromodichloromethane	83	Compound Not Detected.					
51	cis-1,3-Dichloropropene	75	Compound Not Detected.					
52	4-Methyl-2-pentanone	43	Compound Not Detected.					
53	Toluene	92	Compound Not Detected.					
54	trans-1,3-Dichloropropene	75	Compound Not Detected.					
55	1,1,2-Trichloroethane	83	Compound Not Detected.					
56	Tetrachloroethene	166	12.174	12.172	(0.932)	35467	0.63107	0.631
57	1,3-Dichloropropane	76	Compound Not Detected.					
58	2-Hexanone	43	Compound Not Detected.					
59	Dibromochloromethane	129	Compound Not Detected.					
60	1,2-Dibromoethane	107	Compound Not Detected.					
62	Chlorobenzene	112	Compound Not Detected.					
63	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
64	Ethylbenzene	91	Compound Not Detected.					
65	m-,p-Xylene	106	Compound Not Detected.					
66	o-Xylene	106	Compound Not Detected.					
M 67	Xylene (total)	106	Compound Not Detected.					
68	Styrene	104	Compound Not Detected.					
69	Bromoform	173	Compound Not Detected.					
70	Isopropylbenzene	105	Compound Not Detected.					
71	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
72	Bromobenzene	156	Compound Not Detected.					
73	1,2,3-Trichloropropane	110	Compound Not Detected.					
74	n-Propylbenzene	120	Compound Not Detected.					
76	2-Chlorotoluene	126	Compound Not Detected.					
78	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
79	4-Chlorotoluene	126	Compound Not Detected.					
80	tert-Butylbenzene	119	Compound Not Detected.					
81	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
82	sec-Butylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	p-Isopropyltoluene	119	Compound Not Detected.					
85	1,4-Dichlorobenzene	146	Compound Not Detected.					
87	n-Butylbenzene	91	Compound Not Detected.					
88	1,2-Dichlorobenzene	146	Compound Not Detected.					
89	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
90	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
91	Hexachlorobutadiene	225	Compound Not Detected.					
92	Naphthalene	128	19.165	19.148	(1.224)	1272	1.09216	1.09
93	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067919.D
Date : 26-OCT-2006 06:32
Client ID: T-53-GW38
Sample Info: D0601625-009
Purge Volume: 10.0
Column phase: DB-624

Instrument: MSK.i
Operator: X
Column diameter: 0.32



Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067919.D

Date : 26-OCT-2006 06:32

Client ID: T-53-GW38

Instrument: MSK.i

Sample Info: D0601625-009

Purge Volume: 10.0

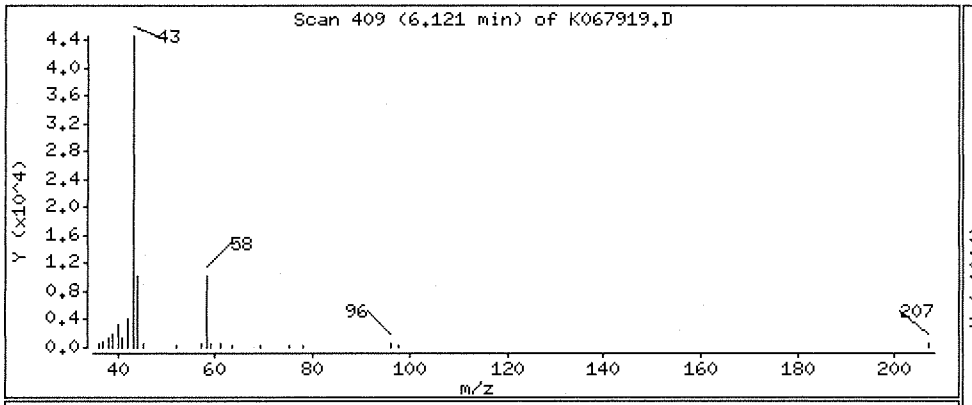
Operator: X

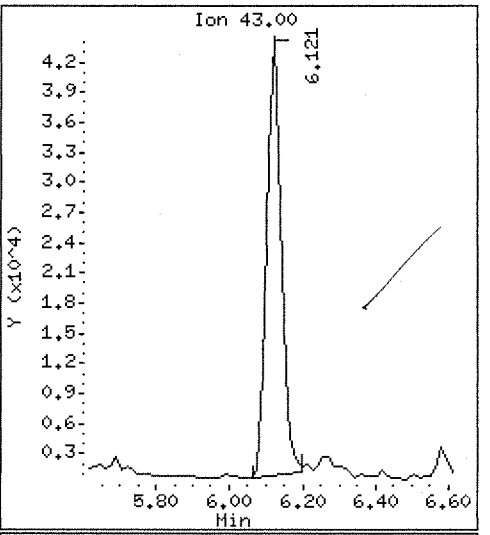
Column phase: DB-624

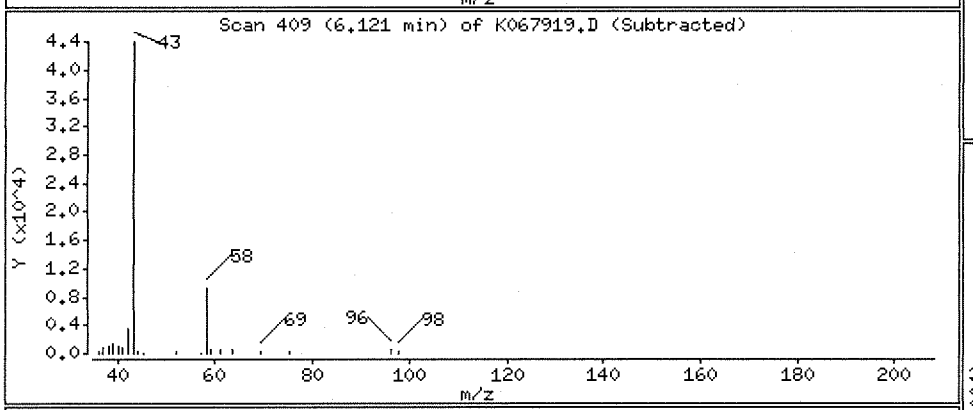
Column diameter: 0.32

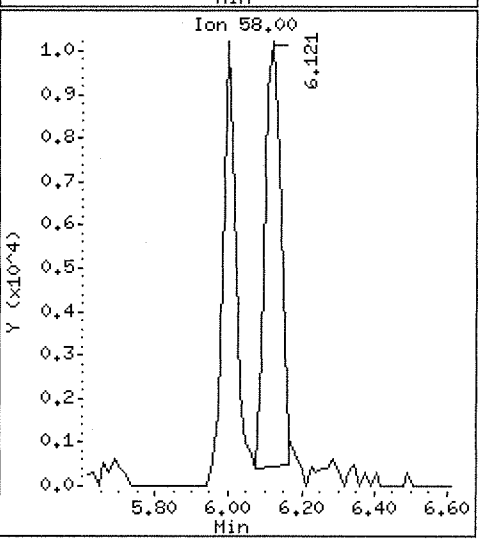
18 Acetone

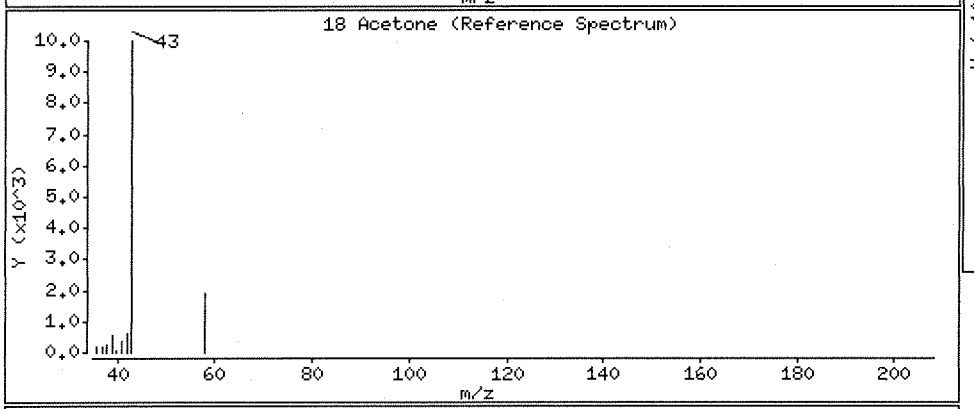
Concentration: 5.96 ug/L

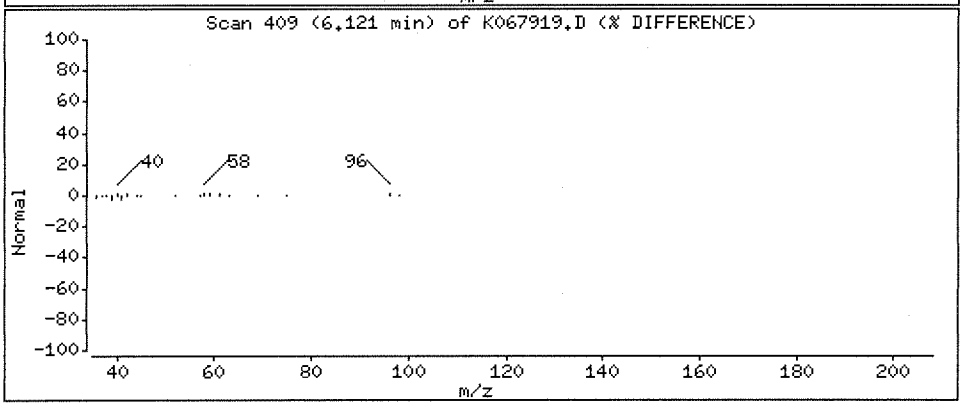












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Date : 26-OCT-2006 06:32

Client ID: T-53-GW38

Instrument: MSK.i

Sample Info: D0601625-009

Purge Volume: 10.0

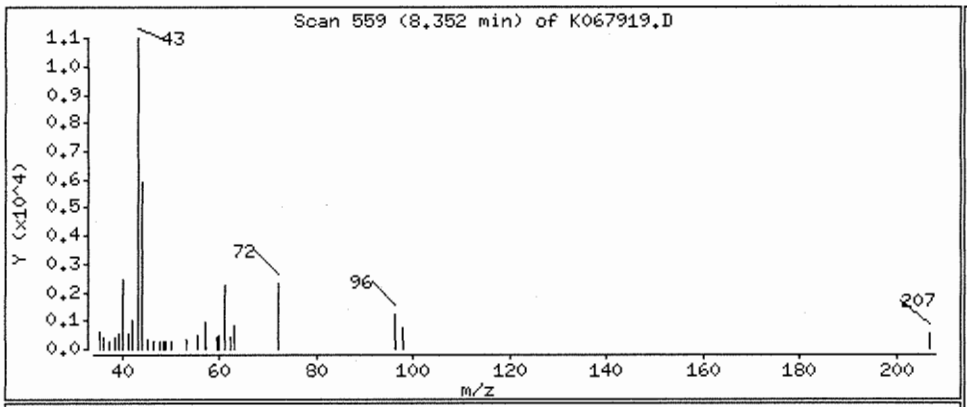
Operator: X

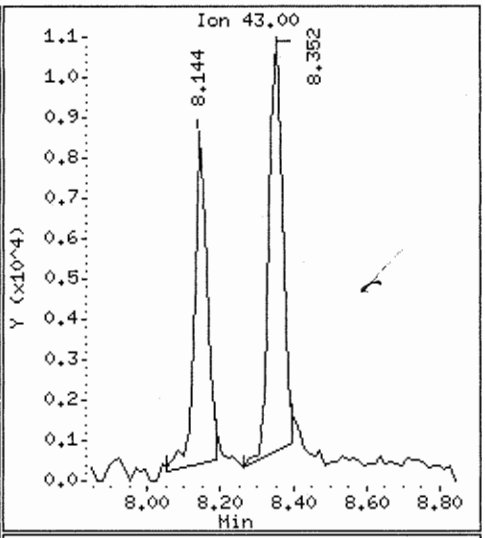
Column phase: DB-624

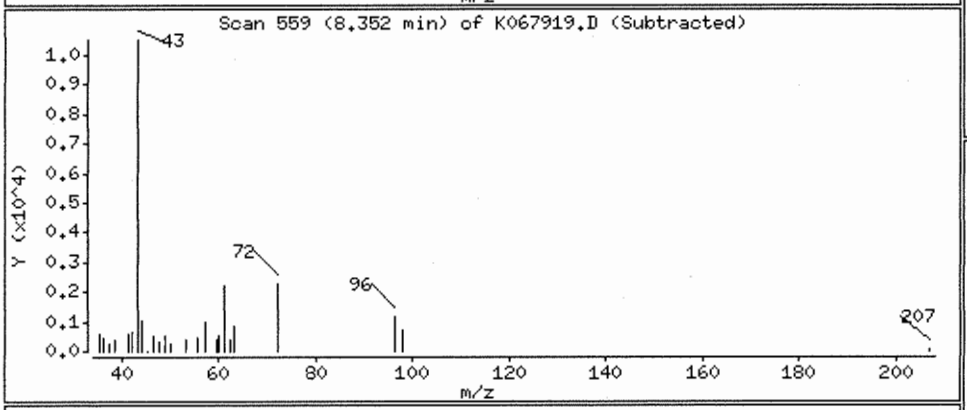
Column diameter: 0.32

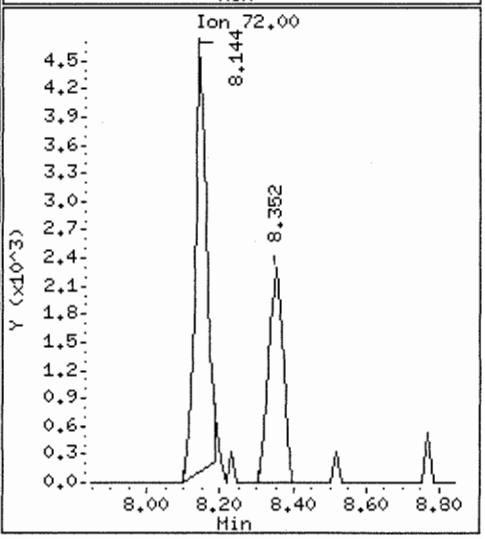
35 2-Butanone

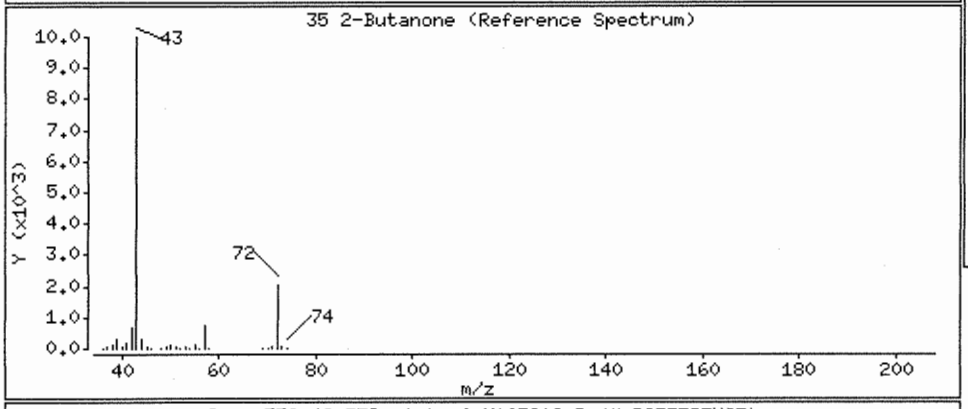
Concentration: 2.00 ug/L

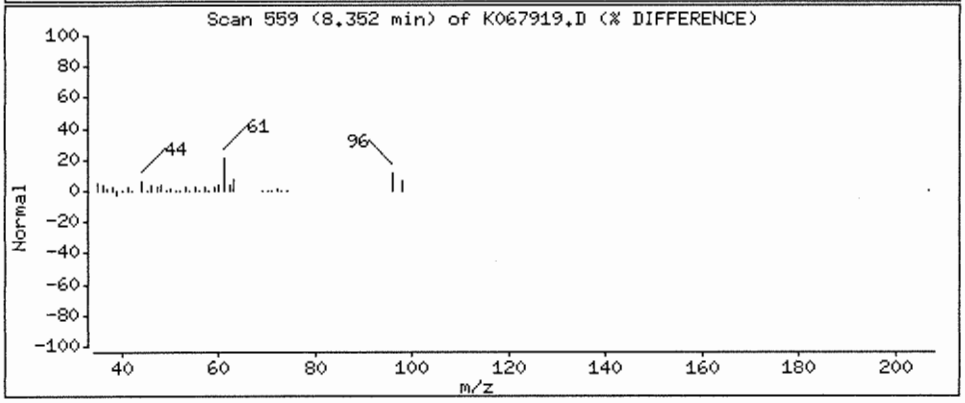












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067919.D

Date : 26-OCT-2006 06:32

Client ID: T-53-GW38

Instrument: MSK.i

Sample Info: D0601625-009

Purge Volume: 10.0

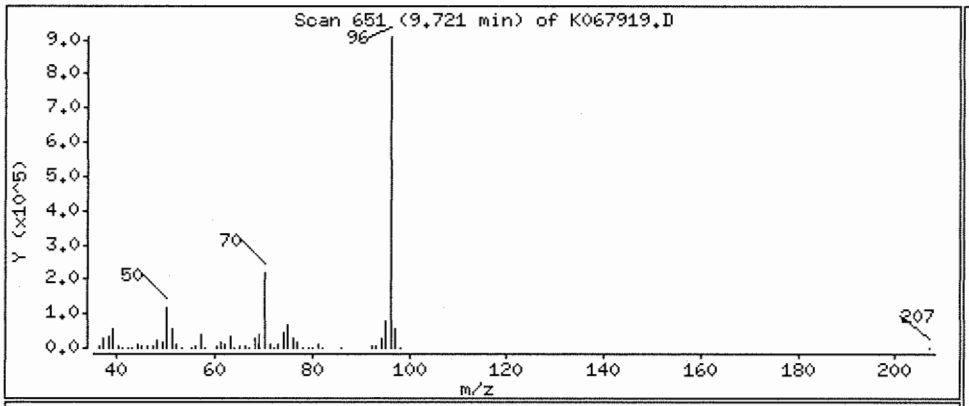
Operator: X

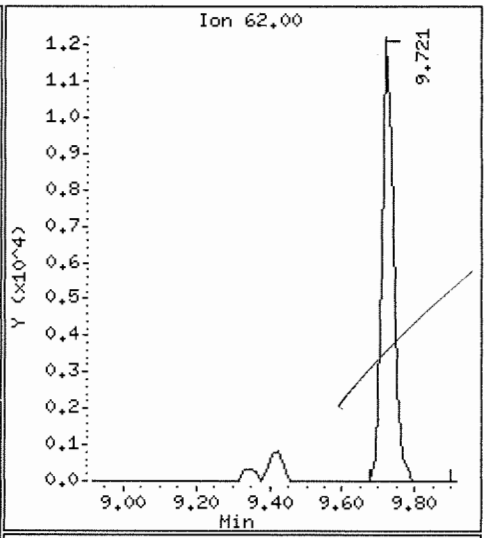
Column phase: DB-624

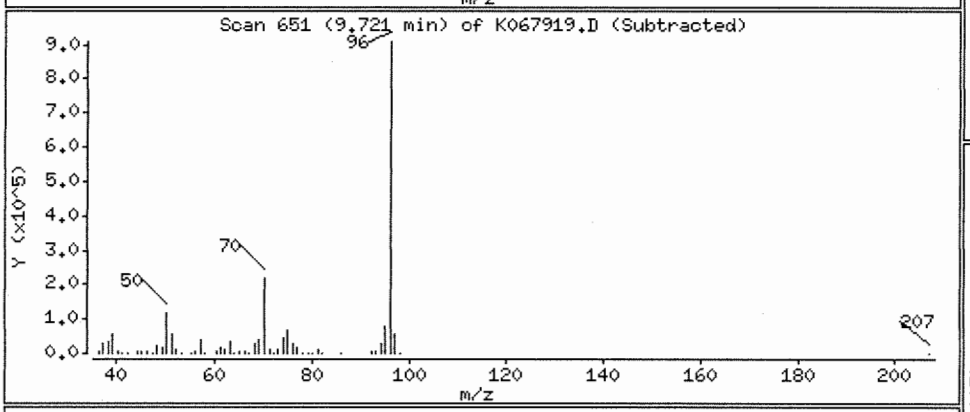
Column diameter: 0.32

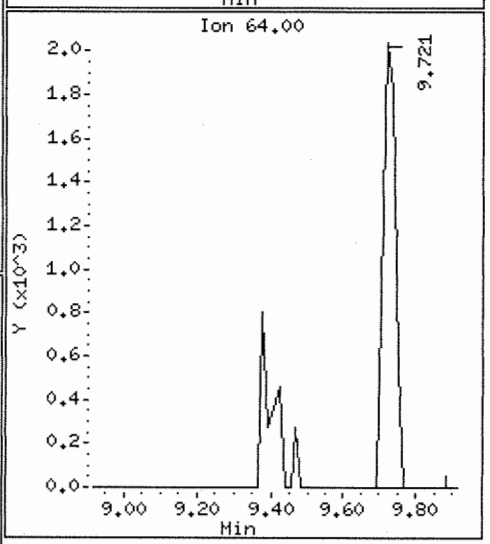
44 1,2-Dichloroethane

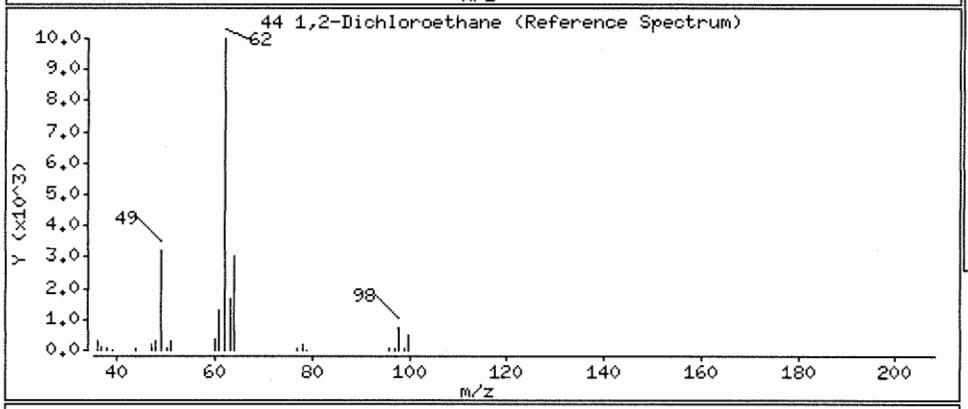
Concentration: 0.364 ug/L

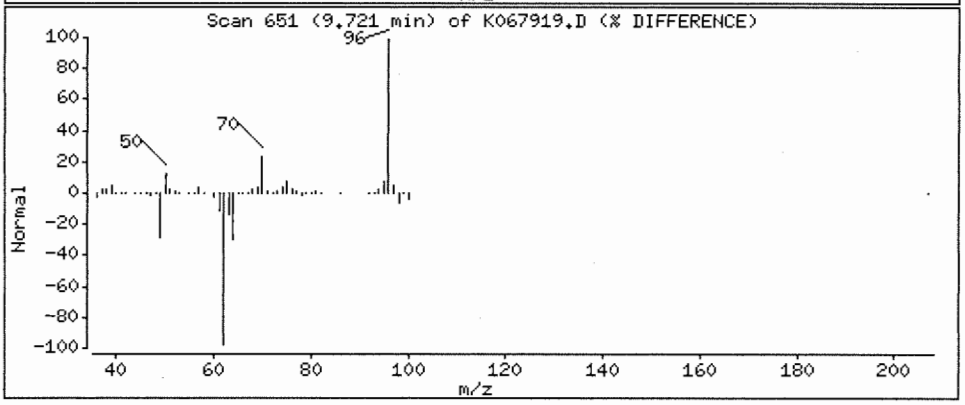












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067919.D

Date : 26-OCT-2006 06:32

Client ID: T-53-GW38

Instrument: MSK.i

Sample Info: D0601625-009

Purge Volume: 10.0

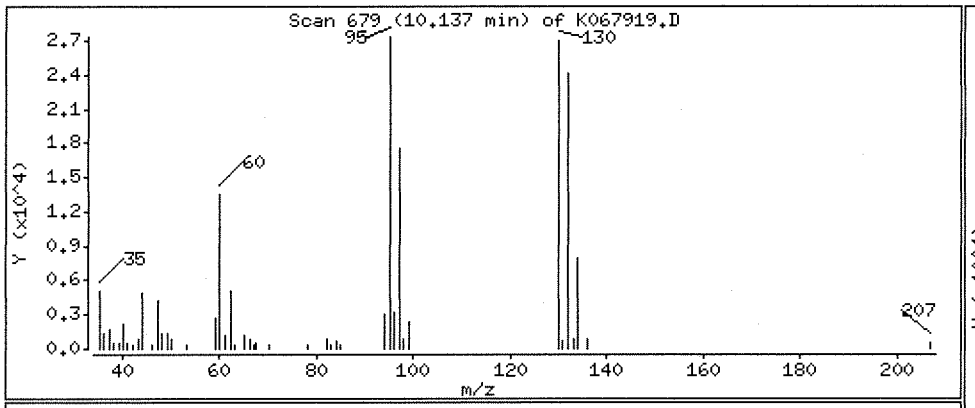
Operator: X

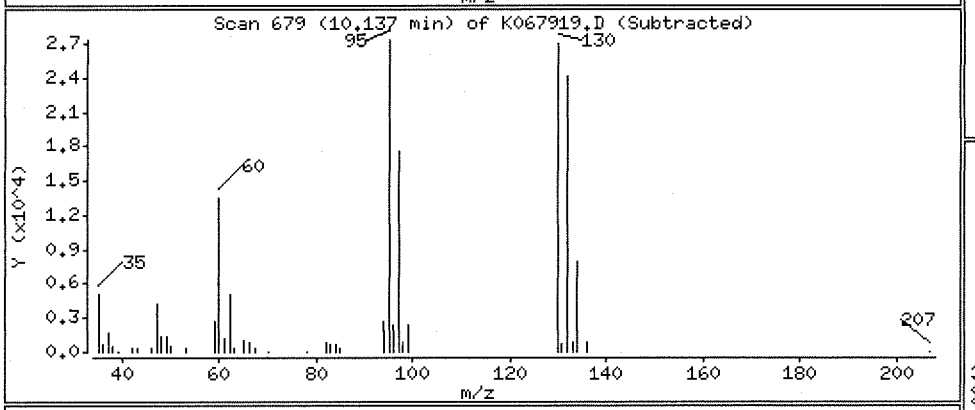
Column phase: DB-624

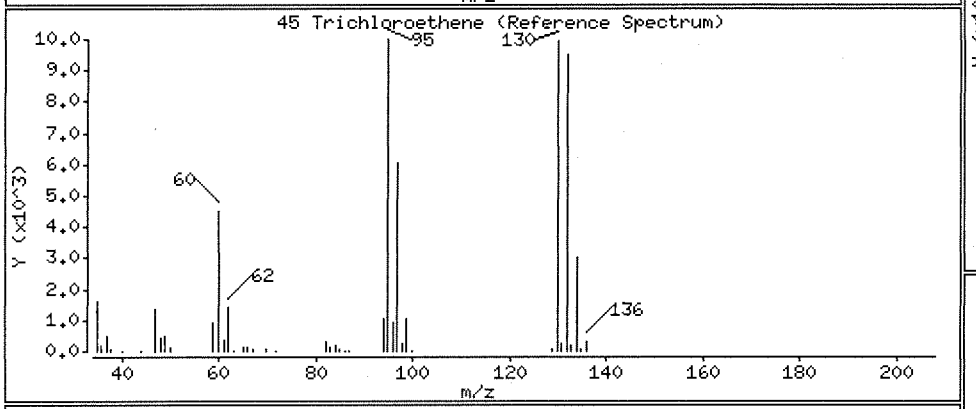
Column diameter: 0.32

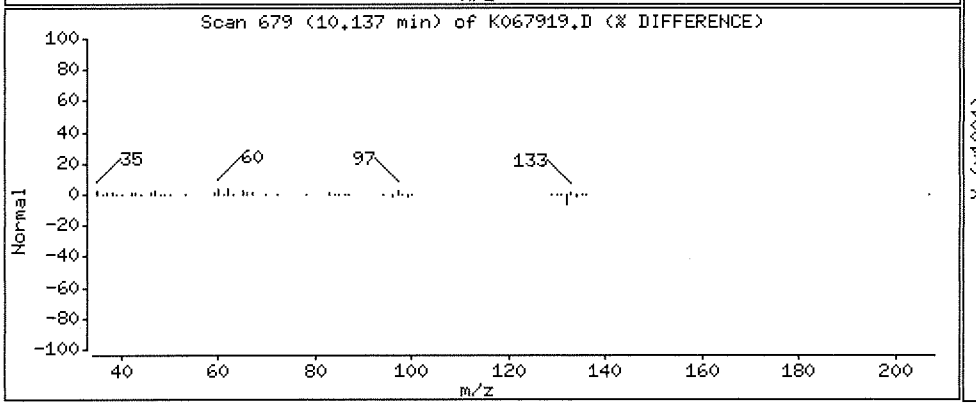
45 Trichloroethene

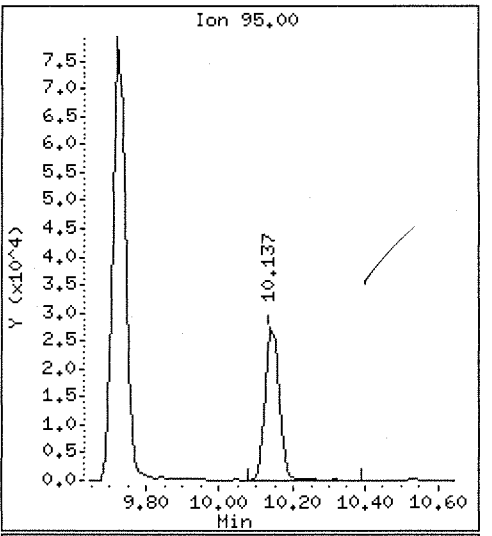
Concentration: 1.16 ug/L

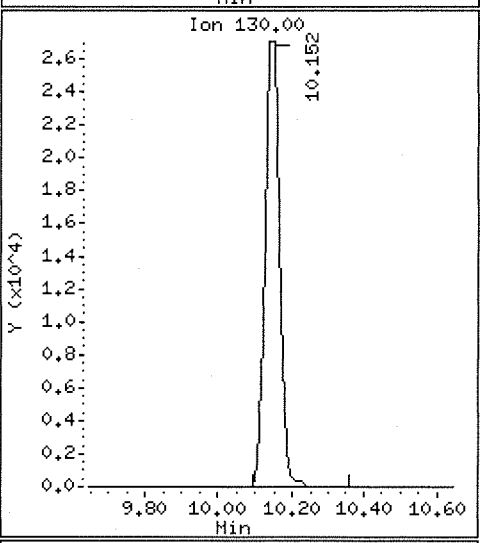


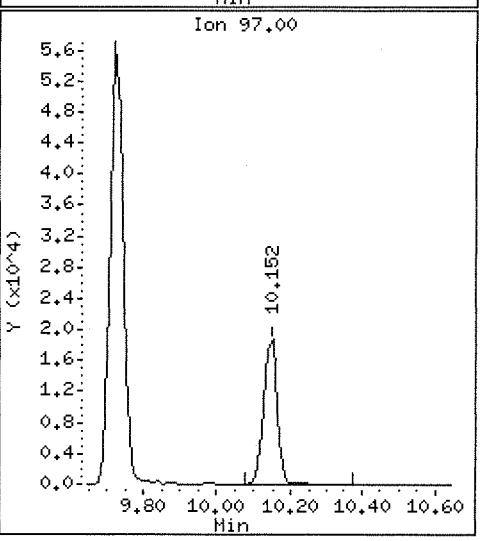












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067919.D

Date : 26-OCT-2006 06:32

Client ID: T-53-GW38

Instrument: MSK.i

Sample Info: D0601625-009

Purge Volume: 10.0

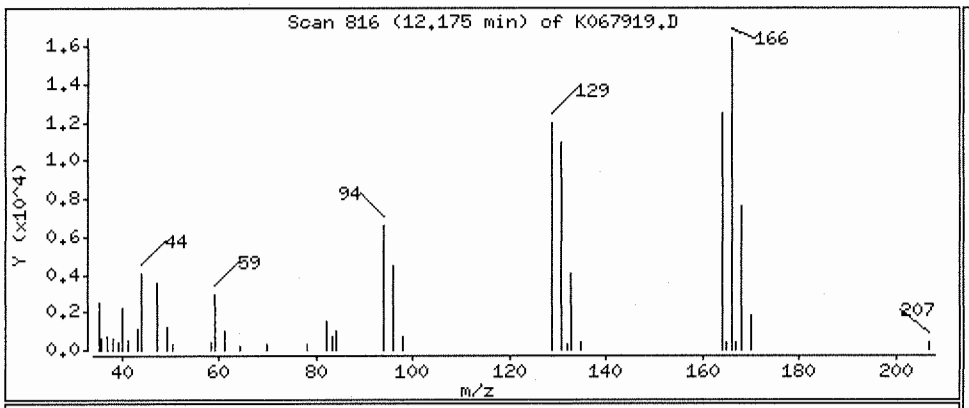
Operator: X

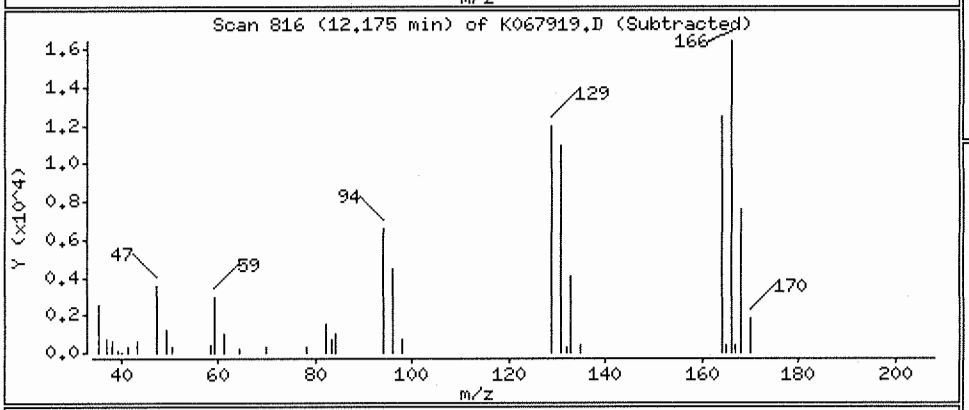
Column phase: DB-624

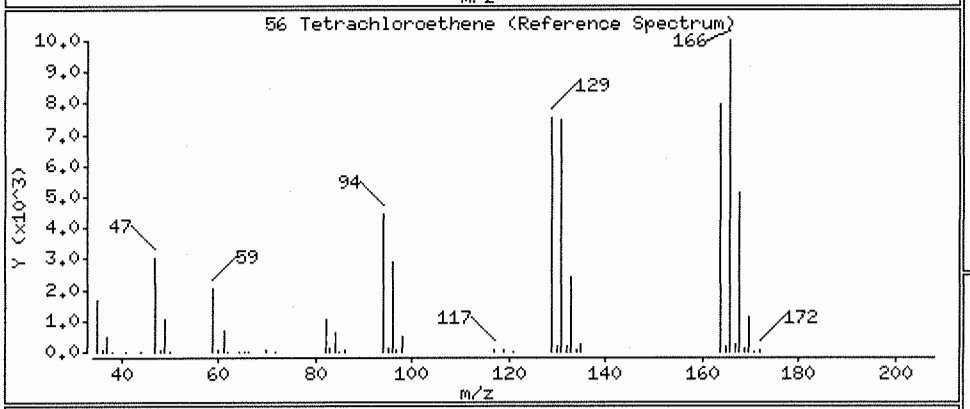
Column diameter: 0.32

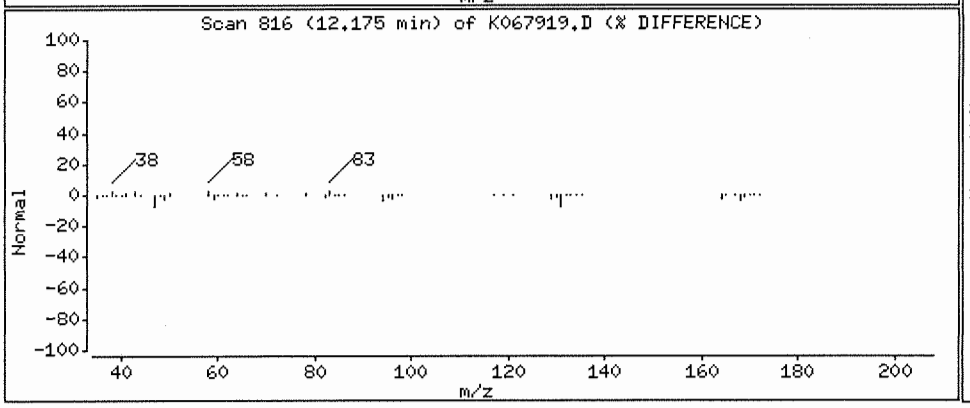
56 Tetrachloroethene

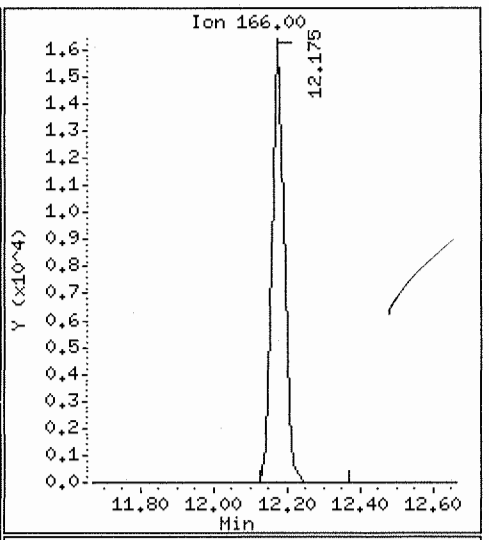
Concentration: 0.631 ug/L

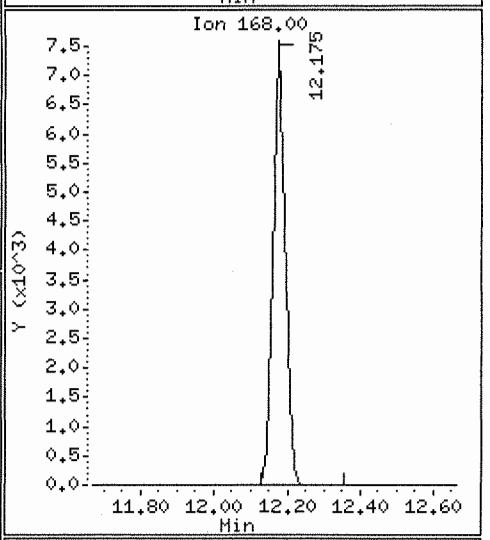


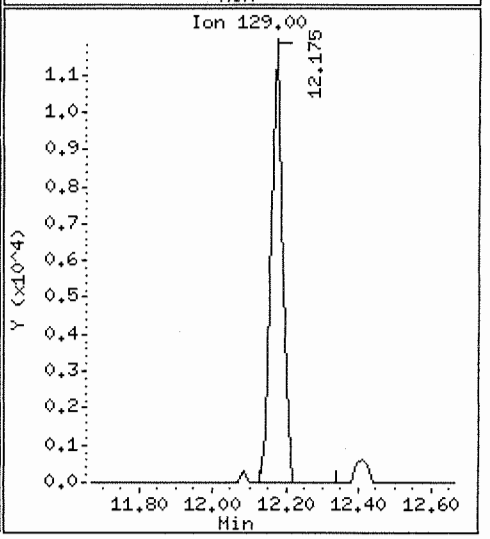












Data File: \\REDDING3\ACQU\Target\Chem\MSK.i\K061025n.b\K067919.D

Date : 26-OCT-2006 06:32

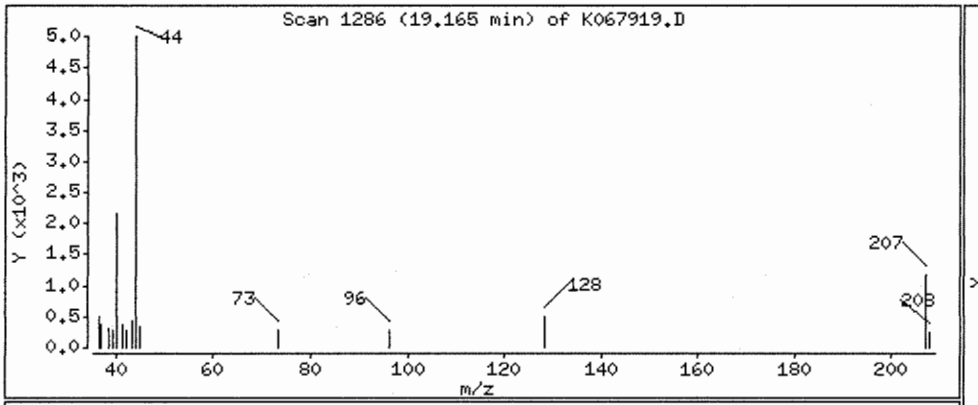
Client ID: T-53-GW38 Instrument: MSK.i

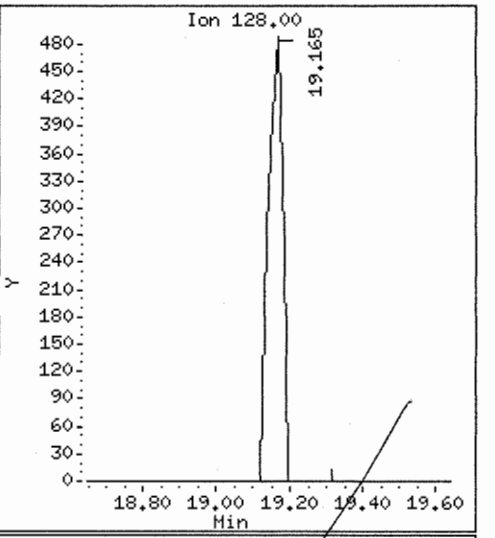
Sample Info: D0601625-009

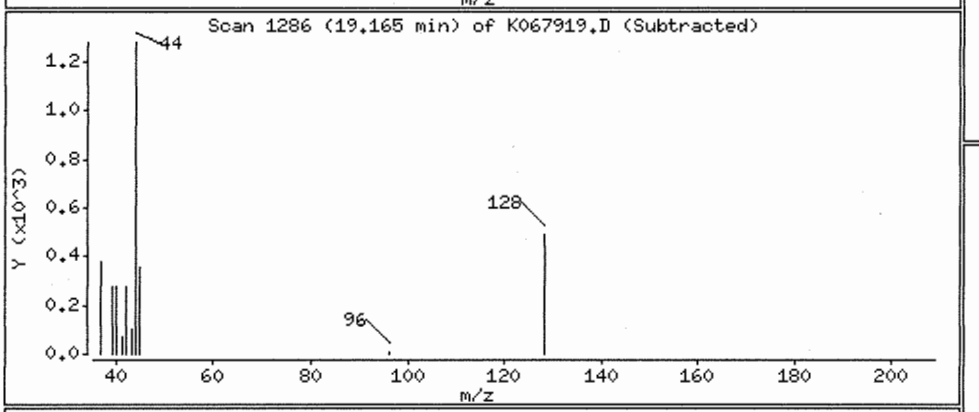
Purge Volume: 10.0 Operator: X

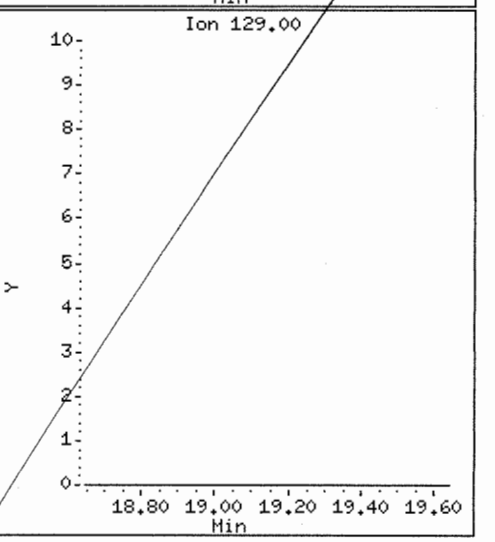
Column phase: DB-624 Column diameter: 0.32

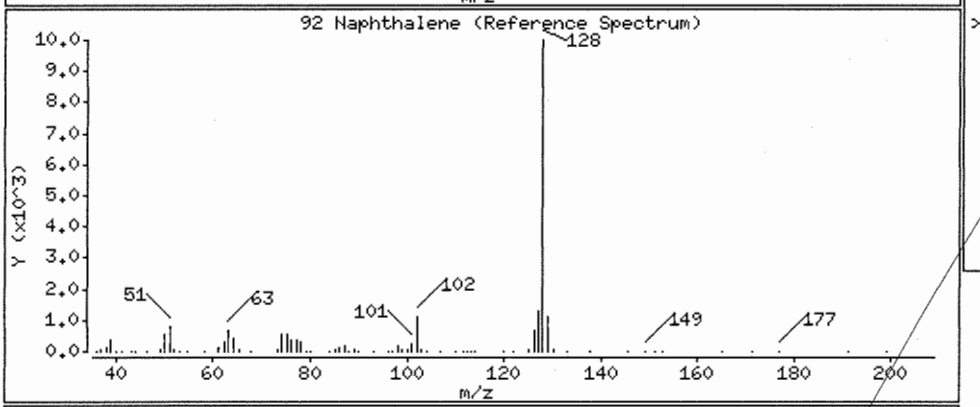
92 Naphthalene Concentration: 1.09 ug/L

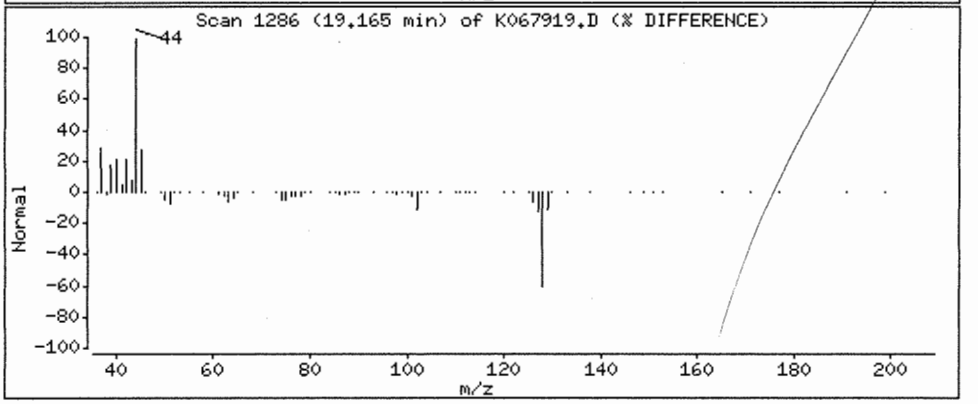












QC Summary

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5035
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3	S4
Laboratory Control Sample	U1020S01LCS		92	94	94	93
Laboratory Control Sample Duplicate	U1020S01LCSD		93	92	93	92
Method Blank	U1020S01		85	94	91	92
T-52-56.5	D0601625-001		88	98	94	95
T-53-S7	D0601625-006		85	96	89	94

Surrogate Recovery Control Limits (%)

S1:	1,2-Dichloroethane-d4 - SS	70-148
S2:	4-Bromofluorobenzene - SS	69-138
S3:	Dibromofluoromethane - SS	74-131
S4:	Toluene-d8 - SS	77-132

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3	S4
Laboratory Control Sample	K1025W02LCS		93	99	101	104
Laboratory Control Sample Duplicate	K1025W02LCSD		95	95	104	104
Method Blank	K1025W02		104	112	111	103
QCEB	D0601625-003		106	110	112	102
T-52-GW26	D0601625-004		112	110	116	101
T-53-GW26	D0601625-008		112	107	116	103
T-53-GW38	D0601625-009		119	106	118	102
T-52-GW37	D0601625-005		117	106	115	99
T-52-GW11	D0601625-002		110	113	117	101
T-53-GW11	D0601625-007		113	113	119	101

Surrogate Recovery Control Limits (%)

S1:	1,2-Dichloroethane-d4 - SS	79-135
S2:	4-Bromofluorobenzene - SS	82-124
S3:	Dibromofluoromethane - SS	84-127
S4:	Toluene-d8 - SS	80-117

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/20/2006
Time Analyzed: 1213

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: U064399
Instrument ID: MSU
Analysis Method: SW8260

Analysis Lot: MSU10/20/2006

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	1751763	6.44	1207338	10.22	294197	13.10
Upper Limit ==>	3503526	6.94	2414676	10.72	588394	13.60
Lower Limit ==>	875882	5.94	603669	9.72	147099	12.60

Associated Analyses

Laboratory Control Sample	U1020S01LCS	1776528	6.44	1217119	10.22	296800	13.10
Laboratory Control Sample Duplicate	U1020S01LCSD	1768113	6.44	1204962	10.22	296840	13.10
Method Blank	U1020S01	1788118	6.44	1240799	10.22	304479	13.10
T-52-56.5	D0601625-001	1847399	6.44	1287283	10.22	307648	13.09
T-53-S7	D0601625-006	1931385	6.44	1333688	10.22	317451	13.10

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/26/2006
Time Analyzed: 0205

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: K067909
Instrument ID: MSK
Analysis Method: SW8260

Analysis Lot: MSK10/26/2006

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	2162167	9.73	1226906	13.07	411638	15.67
Upper Limit ==>	4324334	10.23	2453812	13.57	823276	16.17
Lower Limit ==>	1081084	9.23	613453	12.57	205819	15.17

Associated Analyses

Laboratory Control Sample	K1025W02LCS	2177633	9.73	1221166	13.06	412283	15.66
Laboratory Control Sample Duplicate	K1025W02LCSD	2246957	9.73	1232067	13.06	427647	15.66
Method Blank	K1025W02	1926504	9.73	1139026	13.08	324032	15.66
QCEB	D0601625-003	2377959	9.73	1335881	13.08	391310	15.66
T-52-GW26	D0601625-004	2288783	9.72	1298153	13.07	394782	15.67
T-53-GW26	D0601625-008	2457837	9.73	1350498	13.06	397815	15.67
T-53-GW38	D0601625-009	2151591	9.72	1154657	13.07	338358	15.66
T-52-GW37	D0601625-005	2417105	9.71	1323486	13.06	404777	15.66
T-52-GW11	D0601625-002	1889262	9.71	1078598	13.06	285524	15.66
T-52-GW11DL	D0601625-002DL	1840521	9.72	1051715	13.06	284505	15.65
T-53-GW11	D0601625-007	1860736	9.72	1087096	13.07	288889	15.65
T-53-GW11DL	D0601625-007DL	1860480	9.72	1051519	13.07	276981	15.65

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	10/26/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K1025W02LCS / K1025W02LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	9.52	9.48	95	95	27-158	0	
Chloromethane	1.0	10.0	10.2	9.45	102	94	51-137	8	
Vinyl Chloride	0.50	10.0	10.4	10.8	104	108	57-137	4	
Bromomethane	1.0	10.0	9.20	9.15	92	92	44-156	0	
Chloroethane	1.0	10.0	10.4	10.4	104	104	60-140	0	
Trichlorofluoromethane (CFC 11)	1.0	10.0	10.7	11.3	107	113	54-146	5	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	10.1	10.6	101	106	67-139	5	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	10.9	11.4	109	114	70-130	4	
Acetone	10	50.0	48.8	51.0	98	102	55-137	4	
Carbon Disulfide	2.0	10.0	9.76	9.95	98	100	50-127	2	
Dichloromethane (Methylene Chloride)	2.0	10.0	10.0	10.0	100	100	73-121	0	
trans-1,2-Dichloroethene	0.50	10.0	9.96	10.2	100	102	74-124	2	
Methyl tert-Butyl Ether	2.0	10.0	9.86	10.2	99	102	75-119	3	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	10.3	10.6	103	106	78-121	3	
Vinyl Acetate	10	10.0	8.76	8.58	88	86	52-129	2	
2,2-Dichloropropane	0.50	10.0	7.95	8.16	80	82	61-137	3	
cis-1,2-Dichloroethene	0.50	10.0	10.5	10.8	105	108	80-118	3	
2-Butanone (MEK)	10	50.0	45.1	46.2	90	92	76-122	2	
Bromochloromethane	0.50	10.0	9.72	10.2	97	102	82-118	5	
Chloroform	0.50	10.0	10.1	10.3	101	103	73-125	2	
1,1,1-Trichloroethane (TCA)	0.50	10.0	9.70	9.94	97	99	76-124	2	
1,1-Dichloropropene	0.50	10.0	10.3	10.6	103	106	80-119	3	
Carbon Tetrachloride	0.50	10.0	10.2	10.5	102	105	68-135	3	
Benzene	0.50	10.0	10.2	10.6	102	106	81-119	4	
1,2-Dichloroethane (EDC)	0.50	10.0	9.65	10.1	96	101	75-122	4	
Trichloroethene (TCE)	0.50	10.0	9.75	10.1	98	101	79-118	4	
1,2-Dichloropropane	0.50	10.0	9.85	10.0	98	100	82-115	2	
Dibromomethane	0.50	10.0	9.56	9.60	96	96	84-116	0	
Bromodichloromethane	1.0	10.0	9.73	9.71	97	97	81-122	0	
cis-1,3-Dichloropropene	0.50	10.0	9.23	9.32	92	93	78-118	1	
4-Methyl-2-pentanone (MIBK)	10	50.0	43.2	43.2	86	86	81-127	0	
Toluene	0.50	10.0	9.96	10.2	100	102	83-116	2	
trans-1,3-Dichloropropene	0.50	10.0	9.43	9.91	94	99	73-122	5	
1,1,2-Trichloroethane	0.50	10.0	9.78	9.87	98	99	83-120	1	
Tetrachloroethene (PCE)	0.50	10.0	10.2	10.4	102	104	82-118	2	
1,3-Dichloropropane	0.50	10.0	10.1	10.6	101	106	82-119	5	
2-Hexanone	10	50.0	47.6	49.5	95	99	81-130	4	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 10/26/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample Lab Control Sample
Lab Code: K1025W02LCS / K1025W02LCSD
Extraction SW5030
Analysis Method: SW8260

DLCS Sample Lab Control Sample Duplicate
Units: ug/L (ppb)

Aualyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	9.88	9.82	99	98	79-124	1	
1,2-Dibromoethane (EDB)	1.0	10.0	9.43	9.71	94	97	82-116	3	
Chlorobenzene	0.50	10.0	9.58	9.57	96	96	86-114	0	
1,1,1,2-Tetrachloroethane	0.50	10.0	9.91	9.74	99	97	79-122	2	
Ethylbenzene	0.50	10.0	10.1	9.99	101	100	86-116	1	
Xylenes, Total	1.5	30.0	29.9	29.6	100	99	85-117	1	
Styrene	0.50	10.0	10.0	9.87	100	99	84-119	1	
Bromoform	1.0	10.0	9.29	9.28	93	93	71-133	0	
Isopropylbenzene	1.0	10.0	10.1	9.90	101	99	77-117	2	
1,1,2,2-Tetrachloroethane	0.50	10.0	9.79	8.82	98	88	80-117	10	
Bromobenzene	1.0	10.0	9.91	9.56	99	96	84-120	4	
1,2,3-Trichloropropane	0.50	10.0	9.44	8.76	94	88	81-122	7	
n-Propylbenzene	1.0	10.0	9.74	9.14	97	91	87-117	6	
2-Chlorotoluene	1.0	10.0	9.55	9.49	96	95	87-119	1	
1,3,5-Trimethylbenzene	1.0	10.0	9.84	9.54	98	95	83-120	3	
4-Chlorotoluene	1.0	10.0	9.77	9.17	98	92	86-118	6	
tert-Butylbenzene	1.0	10.0	10.4	10.1	104	101	82-122	3	
1,2,4-Trimethylbenzene	1.0	10.0	10.2	10.3	102	103	86-121	1	
sec-Butylbenzene	1.0	10.0	10.4	10.4	104	104	84-128	0	
1,3-Dichlorobenzene	0.50	10.0	9.74	9.54	97	95	85-119	2	
4-Isopropyltoluene	1.0	10.0	9.80	9.77	98	98	84-121	0	
1,4-Dichlorobenzene	0.50	10.0	9.34	9.26	93	93	84-118	1	
n-Butylbenzene	1.0	10.0	9.51	9.46	95	95	81-123	0	
1,2-Dichlorobenzene	0.50	10.0	9.79	9.66	98	97	85-117	1	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	40.0	37.9	36.6	95	92	67-121	3	
1,2,4-Trichlorobenzene	1.0	10.0	9.13	9.04	91	90	69-128	1	
Hexachlorobutadiene	1.0	10.0	8.95	8.96	90	90	71-135	0	
Naphthalene	1.0	10.0	8.58	8.66	86	87	60-131	1	
1,2,3-Trichlorobenzene	1.0	10.0	9.20	9.22	92	92	69-130	0	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601625
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 10/20/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample Lab Control Sample
Lab Code: U1020S01LCS / U1020S01LCSD
Extraction SW5035
Analysis Method: SW8260

DLCS Sample Lab Control Sample Duplicate
Units: ug/Kg (ppb

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	5.0	50.00	56.41	54.57	113	109	35-148	3	
Chloromethane	5.0	50.00	54.45	53.17	109	106	47-143	2	
Vinyl Chloride	5.0	50.00	54.34	53.56	109	107	59-142	1	
Bromomethane	5.0	50.00	57.08	53.74	114	107	42-171	6	
Chloroethane	5.0	50.00	57.10	55.22	114	110	66-142	3	
Trichlorofluoromethane (CFC 11)	5.0	50.00	56.76	55.10	114	110	66-141	3	
1,1,2-Trichlorotrifluoroethane	5.0	50.00	55.71	55.52	111	111	69-134	0	
1,1-Dichloroethene (1,1-DCE)	5.0	50.00	56.58	55.74	113	111	75-133	1	
Acetone	25	250.0	226.8	239.2	91	96	72-135	5	
Carbon Disulfide	5.0	50.00	51.50	50.83	103	102	57-109	1	
Dichloromethane (Methylene Chloride)	5.0	50.00	49.20	48.64	98	97	72-119	1	
trans-1,2-Dichloroethene	5.0	50.00	53.85	54.40	108	109	75-123	1	
Methyl tert-Butyl Ether	5.0	50.00	49.82	50.90	100	102	76-134	2	
1,1-Dichloroethane (1,1-DCA)	5.0	50.00	48.29	48.60	96	97	77-122	1	
Vinyl Acetate	5.0	50.00	51.40	51.42	103	103	46-163	0	
2,2-Dichloropropane	5.0	50.00	54.68	54.51	109	109	69-135	0	
cis-1,2-Dichloroethene	5.0	50.00	50.97	51.10	102	102	79-121	0	
2-Butanone (MEK)	25	250.0	223.7	236.0	89	94	79-129	5	
Bromochloromethane	5.0	50.00	49.27	49.31	98	99	81-123	0	
Chloroform	5.0	50.00	48.22	48.08	96	96	77-119	0	
1,1,1-Trichloroethane (TCA)	5.0	50.00	51.25	51.37	102	103	75-127	0	
1,1-Dichloropropene	5.0	50.00	51.99	51.75	104	104	71-124	0	
Carbon Tetrachloride	5.0	50.00	55.43	54.84	111	110	70-131	1	
Benzene	5.0	50.00	49.69	49.87	99	100	79-119	0	
1,2-Dichloroethane (EDC)	5.0	50.00	47.74	48.80	95	98	78-120	2	
Trichloroethene (TCE)	5.0	50.00	49.55	49.86	99	100	79-119	1	
1,2-Dichloropropane	5.0	50.00	48.26	48.32	96	97	78-119	0	
Dibromomethane	5.0	50.00	47.54	48.49	95	97	82-126	2	
Bromodichloromethane	5.0	50.00	48.85	49.59	98	99	77-127	2	
cis-1,3-Dichloropropene	5.0	50.00	51.16	50.92	102	102	77-124	0	
4-Methyl-2-pentanone (MIBK)	25	250.0	225.8	237.2	90	95	84-134	5	
Toluene	5.0	50.00	47.76	47.44	96	95	80-118	1	
trans-1,3-Dichloropropene	5.0	50.00	51.37	52.26	103	104	76-125	2	
1,1,2-Trichloroethane	5.0	50.00	46.48	47.89	93	96	83-125	3	
Tetrachloroethene (PCE)	5.0	50.00	51.78	51.49	104	103	78-124	0	
1,3-Dichloropropane	5.0	50.00	47.25	48.33	94	97	80-123	2	
2-Hexanone	25	250.0	231.1	242.4	92	97	80-145	5	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	10/20/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	U1020S01LCS / U1020S01LCSD	**Units:**	ug/Kg (ppb
Extraction	SW5035		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	5.0	50.00	50.43	51.21	101	102	75-131	2	
1,2-Dibromoethane (EDB)	5.0	50.00	47.70	48.52	95	97	83-124	2	
Chlorobenzene	5.0	50.00	47.95	48.06	96	96	80-123	0	
1,1,1,2-Tetrachloroethane	5.0	50.00	50.72	51.37	101	103	76-129	1	
Ethylbenzene	5.0	50.00	48.05	47.86	96	96	81-120	0	
Xylenes, Total	5.0	150.0	144.8	144.0	96	96	79-125	0	
Styrene	5.0	50.00	47.79	48.12	96	96	79-123	1	
Bromoform	5.0	50.00	52.81	54.33	106	109	73-144	3	
Isopropylbenzene	5.0	50.00	48.90	49.18	98	98	74-113	0	
1,1,2,2-Tetrachloroethane	5.0	50.00	46.90	46.99	94	94	74-134	0	
Bromobenzene	5.0	50.00	46.46	46.00	93	92	81-123	1	
1,2,3-Trichloropropane	5.0	50.00	43.92	46.21	88	92	79-129	5	
n-Propylbenzene	5.0	50.00	50.35	49.84	101	100	76-125	1	
2-Chlorotoluene	5.0	50.00	47.19	47.33	94	95	81-125	0	
1,3,5-Trimethylbenzene	5.0	50.00	47.29	46.74	94	93	79-122	1	
4-Chlorotoluene	5.0	50.00	47.49	47.42	95	95	79-122	0	
tert-Butylbenzene	5.0	50.00	45.46	45.52	91	91	82-126	0	
1,2,4-Trimethylbenzene	5.0	50.00	47.01	47.21	94	94	82-124	0	
sec-Butylbenzene	5.0	50.00	49.46	49.30	99	99	85-131	0	
1,3-Dichlorobenzene	5.0	50.00	46.90	47.13	94	94	81-124	0	
4-Isopropyltoluene	5.0	50.00	47.04	47.18	94	94	79-124	0	
1,4-Dichlorobenzene	5.0	50.00	47.02	47.42	94	95	81-124	1	
n-Butylbenzene	5.0	50.00	46.56	47.02	93	94	75-126	1	
1,2-Dichlorobenzene	5.0	50.00	46.21	46.53	92	93	81-123	1	
1,2-Dibromo-3-chloropropane (DBCP)	25	200.0	168.9	174.7	84	87	76-139	3	
1,2,4-Trichlorobenzene	5.0	50.00	48.50	48.72	97	97	67-132	0	
Hexachlorobutadiene	5.0	50.00	47.43	47.69	95	95	73-133	0	
Naphthalene	5.0	50.00	45.82	47.19	92	94	76-140	3	
1,2,3-Trichlorobenzene	5.0	50.00	45.58	46.27	91	92	74-129	2	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Extracted: 10/26/2006
Date Analyzed: 10/26/2006
Time Analyzed: 03:52

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K1025W02

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	K1025W02LCS	K067910	10/26/2006	02:32
Laboratory Control Sample Duplicate	K1025W02LCSD	K067911	10/26/2006	02:59
QCEB	D0601625-003	K067914	10/26/2006	04:19
T-52-GW26	D0601625-004	K067915	10/26/2006	04:46
T-53-GW26	D0601625-008	K067917	10/26/2006	05:39
T-53-GW38	D0601625-009	K067919	10/26/2006	06:32
T-52-GW37	D0601625-005	K067921	10/26/2006	07:26
T-52-GW11	D0601625-002	K067924	10/26/2006	08:46
T-52-GW11DL	D0601625-002DL	K067925	10/26/2006	09:13
T-53-GW11	D0601625-007	K067927	10/26/2006	10:06
T-53-GW11DL	D0601625-007DL	K067928	10/26/2006	10:33

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601625
Project:	TDY	**Date Extracted:**	10/20/2006
Sample Matrix:	Soil	**Date Analyzed:**	10/20/2006
		Time Analyzed:	14:13

Method Blank Summary
Volatile Organic Compounds

Extaction Method:	SW5035	**Extraction Lot:**	U1020S01
Analysis Method:	SW8260		

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	U1020S01LCS	U064400	10/20/2006	12:37
Laboratory Control Sample Duplicate	U1020S01LCSD	U064401	10/20/2006	13:01
T-52-56.5	D0601625-001	U064415	10/20/2006	18:36
T-53-S7	D0601625-006	U064416	10/20/2006	19:00

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/13/2006
Time Analyzed: 0834

Tune Summary
Volatile Organic Compounds

File ID: K067553
Instrument ID: MSK
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.4	127616	PASS
75	95	30	60	44.7	293824	PASS
95	95	100	100	100.0	656640	PASS
96	95	5	9	6.9	45448	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	86.5	568192	PASS
175	174	5	9	7.2	40752	PASS
176	174	95	101	96.1	545792	PASS
177	176	5	9	6.6	36080	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD00.5	VSTD00.5	K067559	10/13/2006	1116	
VSTD001	VSTD001	K067560	10/13/2006	1143	
VSTD005	VSTD005	K067561	10/13/2006	1210	
VSTD010	VSTD010	K067562	10/13/2006	1236	
VSTD020	VSTD020	K067563	10/13/2006	1303	
VSTD040	VSTD040	K067564	10/13/2006	1330	
VSTD100	VSTD100	K067565	10/13/2006	1356	
QCALTSTD	QCALTSTD	K067570	10/13/2006	1610	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/18/2006
Time Analyzed: 1413

Tune Summary
Volatile Organic Compounds

File ID: U064370
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	32.5	53536	PASS
75	95	30	60	49.2	81096	PASS
95	95	100	100	100.0	164800	PASS
96	95	5	9	7.1	11633	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	79.5	130960	PASS
175	174	5	9	7.6	9942	PASS
176	174	95	101	95.2	124688	PASS
177	176	5	9	6.5	8112	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD005	VSTD005	U064372	10/18/2006	1505	
VSTD025	VSTD025	U064373	10/18/2006	1529	
VSTD050	VSTD050	U064374	10/18/2006	1553	
VSTD075	VSTD075	U064375	10/18/2006	1617	
VSTD100	VSTD100	U064376	10/18/2006	1641	
QCALTSTD5	QCALTSTD5	U064377	10/18/2006	1705	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/20/2006
Time Analyzed: 1119

Tune Summary
Volatile Organic Compounds

File ID: U064397
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	31.8	10760	PASS
75	95	30	60	46.4	15701	PASS
95	95	100	100	100.0	33848	PASS
96	95	5	9	6.8	2295	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	79.9	27056	PASS
175	174	5	9	7.9	2137	PASS
176	174	95	101	98.7	26704	PASS
177	176	5	9	6.6	1760	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD50E	VSTD50E	U064399	10/20/2006	1213	
Laboratory Control Sample	U1020S01LCS	U064400	10/20/2006	1237	
Laboratory Control Sample Duplicate	U1020S01LCSD	U064401	10/20/2006	1301	
Method Blank	U1020S01	U064404	10/20/2006	1413	
T-52-56.5	D0601625-001	U064415	10/20/2006	1836	
T-53-S7	D0601625-006	U064416	10/20/2006	1900	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625
Date Analyzed: 10/26/2006
Time Analyzed: 0112

Tune Summary
Volatile Organic Compounds

File ID: K067907
Instrument ID: MSK
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.4	90008	PASS
75	95	30	60	45.8	202304	PASS
95	95	100	100	100.0	441856	PASS
96	95	5	9	6.7	29672	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	86.2	380672	PASS
175	174	5	9	7.6	28920	PASS
176	174	95	101	97.0	369088	PASS
177	176	5	9	6.5	23912	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	K067909	10/26/2006	0205	
Laboratory Control Sample	K1025W02LCS	K067910	10/26/2006	0232	
Laboratory Control Sample Duplicate	K1025W02LCSD	K067911	10/26/2006	0259	
Method Blank	K1025W02	K067913	10/26/2006	0352	
QCEB	D0601625-003	K067914	10/26/2006	0419	
T-52-GW26	D0601625-004	K067915	10/26/2006	0446	
T-53-GW26	D0601625-008	K067917	10/26/2006	0539	
T-53-GW38	D0601625-009	K067919	10/26/2006	0632	
T-52-GW37	D0601625-005	K067921	10/26/2006	0726	
T-52-GW11	D0601625-002	K067924	10/26/2006	0846	
T-52-GW11DL	D0601625-002DL	K067925	10/26/2006	0913	
T-53-GW11	D0601625-007	K067927	10/26/2006	1006	
T-53-GW11DL	D0601625-007DL	K067928	10/26/2006	1033	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants **Service Request:** D0601625
Project: TDY

Analysis Run Log
Volatile Organic Compounds

Analysis Method: SW8260 **Instrument ID:** MSK
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
K067559	VSTD00.5	VSTD00.5	10/13/2006	11:16		10/13/2006	11:36
K067560	VSTD001	VSTD001	10/13/2006	11:43		10/13/2006	12:03
K067561	VSTD005	VSTD005	10/13/2006	12:10		10/13/2006	12:30
K067562	VSTD010	VSTD010	10/13/2006	12:36		10/13/2006	12:56
K067563	VSTD020	VSTD020	10/13/2006	13:03		10/13/2006	13:23
K067564	VSTD040	VSTD040	10/13/2006	13:30		10/13/2006	13:50
K067565	VSTD100	VSTD100	10/13/2006	13:56		10/13/2006	14:16
K067570	QCALTSTD	QCALTSTD	10/13/2006	16:10		10/13/2006	16:30
K067909	VSTD010	VSTD010	10/26/2006	02:05		10/26/2006	02:25
K067910	Laboratory Control Sample	K1025W02LCS	10/26/2006	02:32		10/26/2006	02:52
K067911	Laboratory Control Sample Duplicate	K1025W02LCSD	10/26/2006	02:59		10/26/2006	03:19
K067913	Method Blank	K1025W02	10/26/2006	03:52		10/26/2006	04:12
K067914	QCEB	D0601625-003	10/26/2006	04:19		10/26/2006	04:39
K067915	T-52-GW26	D0601625-004	10/26/2006	04:46		10/26/2006	05:06
K067917	T-53-GW26	D0601625-008	10/26/2006	05:39		10/26/2006	05:59
K067919	T-53-GW38	D0601625-009	10/26/2006	06:32		10/26/2006	06:52
K067921	T-52-GW37	D0601625-005	10/26/2006	07:26		10/26/2006	07:46
K067924	T-52-GW11	D0601625-002	10/26/2006	08:46		10/26/2006	09:06
K067925	T-52-GW11DL	D0601625-002DL	10/26/2006	09:13		10/26/2006	09:33
K067927	T-53-GW11	D0601625-007	10/26/2006	10:06		10/26/2006	10:26
K067928	T-53-GW11DL	D0601625-007DL	10/26/2006	10:33		10/26/2006	10:53

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601625

Analysis Run Log
Volatile Organic Compounds

Analysis Method: SW8260

Instrument ID: MSU
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
U064372	VSTD005	VSTD005	10/18/2006	15:05		10/18/2006	15:25
U064373	VSTD025	VSTD025	10/18/2006	15:29		10/18/2006	15:49
U064374	VSTD050	VSTD050	10/18/2006	15:53		10/18/2006	16:13
U064375	VSTD075	VSTD075	10/18/2006	16:17		10/18/2006	16:37
U064376	VSTD100	VSTD100	10/18/2006	16:41		10/18/2006	17:01
U064377	QCALTSTD5	QCALTSTD5	10/18/2006	17:05		10/18/2006	17:25
U064399	VSTD50E	VSTD50E	10/20/2006	12:13		10/20/2006	12:33
U064400	Laboratory Control Sample	U1020S01LCS	10/20/2006	12:37		10/20/2006	12:57
U064401	Laboratory Control Sample Duplicate	U1020S01LCSD	10/20/2006	13:01		10/20/2006	13:21
U064404	Method Blank	U1020S01	10/20/2006	14:13		10/20/2006	14:33
U064415	T-52-56.5	D0601625-001	10/20/2006	18:36		10/20/2006	18:56
U064416	T-53-S7	D0601625-006	10/20/2006	19:00		10/20/2006	19:20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601625
Date Extracted: 10/26/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K1025W02

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	K1025W02	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	K1025W02LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	K1025W02LCSD	NA	NA	10.00 ML	10.00	NA	
QCEB	D0601625-003	10/17/2006	10/19/2006	10.00 ML	10.00	NA	
T-52-GW26	D0601625-004	10/17/2006	10/19/2006	10.00 ML	10.00	NA	
T-53-GW26	D0601625-008	10/17/2006	10/19/2006	10.00 ML	10.00	NA	
T-53-GW38	D0601625-009	10/17/2006	10/19/2006	10.00 ML	10.00	NA	
T-52-GW37	D0601625-005	10/17/2006	10/19/2006	10.00 ML	10.00	NA	
T-52-GW11	D0601625-002	10/17/2006	10/19/2006	10.00 ML	10.00	NA	
T-52-GW11DL	D0601625-002DL	10/17/2006	10/19/2006	10.00 ML	10.00	NA	
T-53-GW11	D0601625-007	10/17/2006	10/19/2006	10.00 ML	10.00	NA	
T-53-GW11DL	D0601625-007DL	10/17/2006	10/19/2006	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601593

Cover Page - Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
T-50-S6.5	D0601593-001	10/12/2006	10/14/2006
T-50-GW11	D0601593-002	10/12/2006	10/14/2006
T-50-GW26	D0601593-003	10/12/2006	10/14/2006
T-50-GW41	D0601593-004	10/12/2006	10/14/2006
T-51-S7	D0601593-005	10/12/2006	10/14/2006
T-51-GW11	D0601593-006	10/12/2006	10/14/2006
QCEB	D0601593-007	10/12/2006	10/14/2006
T-51-GW26	D0601593-008	10/12/2006	10/14/2006
T-51-GW38	D0601593-009	10/12/2006	10/14/2006

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Brian Moore

Date: 10/25/06 Title: Technical Manager

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-50-S6.5
Lab Code: D0601593-001
Extraction SW5030
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Dry 19% Moisture
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.2	6.2	1	10/17/2006	10/17/2006	U1017S01	
Chloromethane	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
Vinyl Chloride	ND	U	0.99	6.2	1	10/17/2006	10/17/2006	U1017S01	
Bromomethane	ND	U	6.2	6.2	1	10/17/2006	10/17/2006	U1017S01	
Chloroethane	ND	U	1.7	6.2	1	10/17/2006	10/17/2006	U1017S01	
Trichlorofluoromethane (CFC 11)	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,1,2-Trichlorotrifluoroethane	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
Acetone	**8.2**	J	6.3	31	1	10/17/2006	10/17/2006	U1017S01	
Carbon Disulfide	ND	U	0.76	6.2	1	10/17/2006	10/17/2006	U1017S01	
Dichloromethane (Methylene Chloride)	**2.6**	J	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
trans-1,2-Dichloroethene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
Methyl tert-Butyl Ether	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
Vinyl Acetate	ND	U	0.58	6.2	1	10/17/2006	10/17/2006	U1017S01	
2,2-Dichloropropane	ND	U	0.96	6.2	1	10/17/2006	10/17/2006	U1017S01	
cis-1,2-Dichloroethene	**3.6**	J	0.99	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichloroethene, Total	**3.6**	J	0.99	6.2	1	10/17/2006	10/17/2006	U1017S01	
2-Butanone (MEK)	ND	U	6.2	31	1	10/17/2006	10/17/2006	U1017S01	
Bromochloromethane	ND	U	0.98	6.2	1	10/17/2006	10/17/2006	U1017S01	
Chloroform	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,1,1-Trichloroethane (TCA)	ND	U	0.95	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,1-Dichloropropene	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
Carbon Tetrachloride	ND	U	0.96	6.2	1	10/17/2006	10/17/2006	U1017S01	
Benzene	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichloroethane (EDC)	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
Trichloroethene (TCE)	**1.5**	J	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichloropropane	ND	U	0.95	6.2	1	10/17/2006	10/17/2006	U1017S01	
Dibromomethane	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
Bromodichloromethane	ND	U	0.91	6.2	1	10/17/2006	10/17/2006	U1017S01	
cis-1,3-Dichloropropene	ND	U	0.96	6.2	1	10/17/2006	10/17/2006	U1017S01	
4-Methyl-2-pentanone (MIBK)	ND	U	7.6	31	1	10/17/2006	10/17/2006	U1017S01	
Toluene	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
trans-1,3-Dichloropropene	ND	U	0.80	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,1,2-Trichloroethane	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
Tetrachloroethene (PCE)	**7.4**		0.96	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,3-Dichloropropane	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
2-Hexanone	ND	U	9.6	31	1	10/17/2006	10/17/2006	U1017S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-50-S6.5
Lab Code: D0601593-001
Extraction SW5030
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Dry 19% Moisture
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dibromoethane (EDB)	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
Chlorobenzene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,1,1,2-Tetrachloroethane	ND	U	0.92	6.2	1	10/17/2006	10/17/2006	U1017S01	
Ethylbenzene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
m,p-Xylenes	ND	U	2.3	6.2	1	10/17/2006	10/17/2006	U1017S01	
o-Xylene	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
Xylenes, Total	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
Styrene	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
Bromoform	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
Isopropylbenzene	ND	U	0.92	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,1,2,2-Tetrachloroethane	ND	U	0.75	6.2	1	10/17/2006	10/17/2006	U1017S01	
Bromobenzene	ND	U	0.98	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,2,3-Trichloropropane	ND	U	1.4	6.2	1	10/17/2006	10/17/2006	U1017S01	
n-Propylbenzene	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
2-Chlorotoluene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,3,5-Trimethylbenzene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
4-Chlorotoluene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
tert-Butylbenzene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,2,4-Trimethylbenzene	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
sec-Butylbenzene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,3-Dichlorobenzene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
4-Isopropyltoluene	ND	U	1.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,4-Dichlorobenzene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
n-Butylbenzene	ND	U	1.1	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichlorobenzene	ND	U	1.4	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	4.0	31	1	10/17/2006	10/17/2006	U1017S01	
1,2,4-Trichlorobenzene	ND	U	1.4	6.2	1	10/17/2006	10/17/2006	U1017S01	
Hexachlorobutadiene	ND	U	1.3	6.2	1	10/17/2006	10/17/2006	U1017S01	
Naphthalene	ND	U	2.0	6.2	1	10/17/2006	10/17/2006	U1017S01	
1,2,3-Trichlorobenzene	ND	U	1.7	6.2	1	10/17/2006	10/17/2006	U1017S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY	**Date Collected:**	10/12/2006
Sample Matrix:	Soil	**Date Received:**	10/14/2006

Volatile Organic Compounds

Sample Name:	T-50-S6.5		
Lab Code:	D0601593-001	**Units:**	ug/Kg (ppb
Extraction	SW5030	**Basis:**	Dry 19% Moisture
Analysis Method:	SW8260	**Level:**	LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	98	69-138	10/17/2006	
Dibromofluoromethane - SS	96	74-131	10/17/2006	
Toluene-d8 - SS	98	77-132	10/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-50-GW11
Lab Code: D0601593-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chloromethane	ND	U	0.23	1.0	1	10/18/2006	10/18/2006	M1018W01	
Bromomethane	ND	U	0.27	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chloroethane	ND	U	0.20	1.0	1	10/18/2006	10/18/2006	M1018W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloroethene (1,1-DCE)	**17**		0.19	0.50	1	10/18/2006	10/18/2006	M1018W01	
Acetone	ND	U	1.0	10	1	10/18/2006	10/18/2006	M1018W01	
Carbon Disulfide	**0.41**	J	0.11	2.0	1	10/18/2006	10/18/2006	M1018W01	
Dichloromethane (Methylene Chloride)	ND	U	0.15	2.0	1	10/18/2006	10/18/2006	M1018W01	
trans-1,2-Dichloroethene	**140**		0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Methyl tert-Butyl Ether	**0.19**	J	0.17	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.12	0.50	1	10/18/2006	10/18/2006	M1018W01	
Vinyl Acetate	ND	U	0.84	10	1	10/18/2006	10/18/2006	M1018W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/18/2006	10/18/2006	M1018W01	
2-Butanone (MEK)	ND	U	0.90	10	1	10/18/2006	10/18/2006	M1018W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/18/2006	10/18/2006	M1018W01	
Chloroform	**0.29**	J	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Benzene	**0.52**		0.12	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichloroethane (EDC)	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
Dibromomethane	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/18/2006	10/18/2006	M1018W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/18/2006	10/18/2006	M1018W01	
Toluene	**0.35**	J	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,2-Trichloroethane	ND	U	0.22	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
2-Hexanone	ND	U	0.58	10	1	10/18/2006	10/18/2006	M1018W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chlorobenzene	**0.91**		0.15	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/18/2006	10/18/2006	M1018W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/18/2006	10/18/2006	M1018W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-50-GW11
Lab Code: D0601593-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
m,p-Xylenes	ND	U	0.32	1.0	1	10/18/2006	10/18/2006	M1018W01	
o-Xylene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/18/2006	10/18/2006	M1018W01	
Styrene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromoform	ND	U	0.18	1.0	1	10/18/2006	10/18/2006	M1018W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromobenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/18/2006	10/18/2006	M1018W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/18/2006	10/18/2006	M1018W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/18/2006	10/18/2006	M1018W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/18/2006	10/18/2006	M1018W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/18/2006	10/18/2006	M1018W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/18/2006	10/18/2006	M1018W01	
Naphthalene	ND	U	0.29	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/18/2006	10/18/2006	M1018W01	
Vinyl Chloride	**200**	D	2.2	5.0	10	10/19/2006	10/19/2006	M1019W01	
cis-1,2-Dichloroethene	**9100**	D	17	50	100	10/19/2006	10/19/2006	M1019W01	
Trichloroethene (TCE)	**3600**	D	20	50	100	10/19/2006	10/19/2006	M1019W01	
Tetrachloroethene (PCE)	**22000**	D	220	500	1000	10/20/2006	10/20/2006	M1020W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	100	82-124	10/18/2006	
Dibromofluoromethane - SS	109	84-127	10/18/2006	
Toluene-d8 - SS	95	80-117	10/18/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-50-GW26
Lab Code: D0601593-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloromethane	ND	U	0.23	1.0	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Chloride	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromomethane	ND	U	0.27	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloroethane	ND	U	0.20	1.0	1	10/19/2006	10/19/2006	M1019W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
Acetone	ND	U	1.0	10	1	10/19/2006	10/19/2006	M1019W01	
Carbon Disulfide	ND	U	0.11	2.0	1	10/19/2006	10/19/2006	M1019W01	
Dichloromethane (Methylene Chloride)	ND	U	0.15	2.0	1	10/19/2006	10/19/2006	M1019W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Methyl tert-Butyl Ether	ND	U	0.17	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Acetate	ND	U	0.84	10	1	10/19/2006	10/19/2006	M1019W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/19/2006	10/19/2006	M1019W01	
cis-1,2-Dichloroethene	**3.1**		0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Butanone (MEK)	ND	U	0.90	10	1	10/19/2006	10/19/2006	M1019W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/19/2006	10/19/2006	M1019W01	
Chloroform	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Benzene	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloroethane (EDC)	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Trichloroethene (TCE)	**1.3**		0.20	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Dibromomethane	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/19/2006	10/19/2006	M1019W01	
Toluene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichloroethane	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Tetrachloroethene (PCE)	**8.7**		0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Hexanone	ND	U	0.58	10	1	10/19/2006	10/19/2006	M1019W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-50-GW26
Lab Code: D0601593-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chlorobenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/19/2006	10/19/2006	M1019W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
m,p-Xylenes	ND	U	0.32	1.0	1	10/19/2006	10/19/2006	M1019W01	
o-Xylene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/19/2006	10/19/2006	M1019W01	
Styrene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromoform	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromobenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/19/2006	10/19/2006	M1019W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/19/2006	10/19/2006	M1019W01	
Naphthalene	ND	U	0.29	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/19/2006	10/19/2006	M1019W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	105	82-124	10/19/2006	
Dibromofluoromethane - SS	117	84-127	10/19/2006	
Toluene-d8 - SS	96	80-117	10/19/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-50-GW41
Lab Code: D0601593-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chloromethane	ND	U	0.23	1.0	1	10/18/2006	10/18/2006	M1018W01	
Vinyl Chloride	**0.44**	J	0.22	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromomethane	ND	U	0.27	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chloroethane	ND	U	0.20	1.0	1	10/18/2006	10/18/2006	M1018W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.19	0.50	1	10/18/2006	10/18/2006	M1018W01	
Acetone	**6.7**	J	1.0	10	1	10/18/2006	10/18/2006	M1018W01	
Carbon Disulfide	**0.48**	J	0.11	2.0	1	10/18/2006	10/18/2006	M1018W01	
Dichloromethane (Methylene Chloride)	ND	U	0.15	2.0	1	10/18/2006	10/18/2006	M1018W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Methyl tert-Butyl Ether	ND	U	0.17	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.12	0.50	1	10/18/2006	10/18/2006	M1018W01	
Vinyl Acetate	ND	U	0.84	10	1	10/18/2006	10/18/2006	M1018W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/18/2006	10/18/2006	M1018W01	
cis-1,2-Dichloroethene	**14**		0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
2-Butanone (MEK)	**2.5**	J	0.90	10	1	10/18/2006	10/18/2006	M1018W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/18/2006	10/18/2006	M1018W01	
Chloroform	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Benzene	ND	U	0.12	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichloroethane (EDC)	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Trichloroethene (TCE)	**3.4**		0.10	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
Dibromomethane	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/18/2006	10/18/2006	M1018W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/18/2006	10/18/2006	M1018W01	
Toluene	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,2-Trichloroethane	ND	U	0.22	0.50	1	10/18/2006	10/18/2006	M1018W01	
Tetrachloroethene (PCE)	**13**		0.22	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
2-Hexanone	ND	U	0.58	10	1	10/18/2006	10/18/2006	M1018W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-50-GW41
Lab Code: D0601593-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chlorobenzene	ND	U	0.15	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/18/2006	10/18/2006	M1018W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/18/2006	10/18/2006	M1018W01	
m,p-Xylenes	ND	U	0.32	1.0	1	10/18/2006	10/18/2006	M1018W01	
o-Xylene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/18/2006	10/18/2006	M1018W01	
Styrene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromoform	ND	U	0.18	1.0	1	10/18/2006	10/18/2006	M1018W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromobenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/18/2006	10/18/2006	M1018W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/18/2006	10/18/2006	M1018W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/18/2006	10/18/2006	M1018W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/18/2006	10/18/2006	M1018W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/18/2006	10/18/2006	M1018W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/18/2006	10/18/2006	M1018W01	
Naphthalene	ND	U	0.29	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/18/2006	10/18/2006	M1018W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	105	82-124	10/18/2006	
Dibromofluoromethane - SS	113	84-127	10/18/2006	
Toluene-d8 - SS	97	80-117	10/18/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-51-S7
Lab Code: D0601593-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Dry 8% Moisture
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.1	5.4	1	10/17/2006	10/17/2006	U1017S01	
Chloromethane	ND	U	0.96	5.4	1	10/17/2006	10/17/2006	U1017S01	
Vinyl Chloride	ND	U	0.87	5.4	1	10/17/2006	10/17/2006	U1017S01	
Bromomethane	ND	U	5.4	5.4	1	10/17/2006	10/17/2006	U1017S01	
Chloroethane	ND	U	1.5	5.4	1	10/17/2006	10/17/2006	U1017S01	
Trichlorofluoromethane (CFC 11)	ND	U	0.92	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.94	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.92	5.4	1	10/17/2006	10/17/2006	U1017S01	
Acetone	**5.6**	J	5.5	27	1	10/17/2006	10/17/2006	U1017S01	
Carbon Disulfide	ND	U	0.67	5.4	1	10/17/2006	10/17/2006	U1017S01	
Dichloromethane (Methylene Chloride)	**2.6**	J	0.88	5.4	1	10/17/2006	10/17/2006	U1017S01	
trans-1,2-Dichloroethene	ND	U	1.0	5.4	1	10/17/2006	10/17/2006	U1017S01	
Methyl tert-Butyl Ether	ND	U	0.90	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.88	5.4	1	10/17/2006	10/17/2006	U1017S01	
Vinyl Acetate	ND	U	0.51	5.4	1	10/17/2006	10/17/2006	U1017S01	
2,2-Dichloropropane	ND	U	0.85	5.4	1	10/17/2006	10/17/2006	U1017S01	
cis-1,2-Dichloroethene	ND	U	0.87	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichloroethene, Total	ND	U	0.87	5.4	1	10/17/2006	10/17/2006	U1017S01	
2-Butanone (MEK)	ND	U	5.4	27	1	10/17/2006	10/17/2006	U1017S01	
Bromochloromethane	ND	U	0.86	5.4	1	10/17/2006	10/17/2006	U1017S01	
Chloroform	ND	U	0.89	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,1,1-Trichloroethane (TCA)	ND	U	0.84	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,1-Dichloropropene	ND	U	0.90	5.4	1	10/17/2006	10/17/2006	U1017S01	
Carbon Tetrachloride	ND	U	0.85	5.4	1	10/17/2006	10/17/2006	U1017S01	
Benzene	ND	U	0.89	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichloroethane (EDC)	ND	U	0.91	5.4	1	10/17/2006	10/17/2006	U1017S01	
Trichloroethene (TCE)	ND	U	0.92	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichloropropane	ND	U	0.84	5.4	1	10/17/2006	10/17/2006	U1017S01	
Dibromomethane	ND	U	0.89	5.4	1	10/17/2006	10/17/2006	U1017S01	
Bromodichloromethane	ND	U	0.80	5.4	1	10/17/2006	10/17/2006	U1017S01	
cis-1,3-Dichloropropene	ND	U	0.85	5.4	1	10/17/2006	10/17/2006	U1017S01	
4-Methyl-2-pentanone (MIBK)	ND	U	6.6	27	1	10/17/2006	10/17/2006	U1017S01	
Toluene	ND	U	0.91	5.4	1	10/17/2006	10/17/2006	U1017S01	
trans-1,3-Dichloropropene	ND	U	0.71	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,1,2-Trichloroethane	ND	U	0.99	5.4	1	10/17/2006	10/17/2006	U1017S01	
Tetrachloroethene (PCE)	ND	U	0.85	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,3-Dichloropropane	ND	U	0.91	5.4	1	10/17/2006	10/17/2006	U1017S01	
2-Hexanone	ND	U	8.4	27	1	10/17/2006	10/17/2006	U1017S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-51-S7
Lab Code: D0601593-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Dry 8% Moisture
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.89	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dibromoethane (EDB)	ND	U	0.88	5.4	1	10/17/2006	10/17/2006	U1017S01	
Chlorobenzene	ND	U	0.93	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,1,1,2-Tetrachloroethane	ND	U	0.82	5.4	1	10/17/2006	10/17/2006	U1017S01	
Ethylbenzene	ND	U	0.93	5.4	1	10/17/2006	10/17/2006	U1017S01	
m,p-Xylenes	ND	U	2.0	5.4	1	10/17/2006	10/17/2006	U1017S01	
o-Xylene	ND	U	0.91	5.4	1	10/17/2006	10/17/2006	U1017S01	
Xylenes, Total	ND	U	0.91	5.4	1	10/17/2006	10/17/2006	U1017S01	
Styrene	ND	U	0.88	5.4	1	10/17/2006	10/17/2006	U1017S01	
Bromoform	ND	U	0.96	5.4	1	10/17/2006	10/17/2006	U1017S01	
Isopropylbenzene	ND	U	0.82	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,1,2,2-Tetrachloroethane	ND	U	0.66	5.4	1	10/17/2006	10/17/2006	U1017S01	
Bromobenzene	ND	U	0.86	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,2,3-Trichloropropane	ND	U	1.2	5.4	1	10/17/2006	10/17/2006	U1017S01	
n-Propylbenzene	ND	U	0.91	5.4	1	10/17/2006	10/17/2006	U1017S01	
2-Chlorotoluene	ND	U	0.96	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,3,5-Trimethylbenzene	ND	U	0.94	5.4	1	10/17/2006	10/17/2006	U1017S01	
4-Chlorotoluene	ND	U	0.94	5.4	1	10/17/2006	10/17/2006	U1017S01	
tert-Butylbenzene	ND	U	0.94	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,2,4-Trimethylbenzene	ND	U	0.91	5.4	1	10/17/2006	10/17/2006	U1017S01	
sec-Butylbenzene	ND	U	0.96	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,3-Dichlorobenzene	ND	U	1.0	5.4	1	10/17/2006	10/17/2006	U1017S01	
4-Isopropyltoluene	ND	U	0.92	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,4-Dichlorobenzene	ND	U	1.0	5.4	1	10/17/2006	10/17/2006	U1017S01	
n-Butylbenzene	ND	U	0.99	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichlorobenzene	ND	U	1.2	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	3.5	27	1	10/17/2006	10/17/2006	U1017S01	
1,2,4-Trichlorobenzene	ND	U	1.3	5.4	1	10/17/2006	10/17/2006	U1017S01	
Hexachlorobutadiene	ND	U	1.2	5.4	1	10/17/2006	10/17/2006	U1017S01	
Naphthalene	ND	U	1.8	5.4	1	10/17/2006	10/17/2006	U1017S01	
1,2,3-Trichlorobenzene	ND	U	1.5	5.4	1	10/17/2006	10/17/2006	U1017S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY	**Date Collected:**	10/12/2006
Sample Matrix:	Soil	**Date Received:**	10/14/2006

Volatile Organic Compounds

Sample Name:	T-51-S7		
Lab Code:	D0601593-005	**Units:**	ug/Kg (ppb
Extraction	SW5030	**Basis:**	Dry 8% Moisture
Analysis Method:	SW8260	**Level:**	LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	102	69-138	10/17/2006	
Dibromofluoromethane - SS	99	74-131	10/17/2006	
Toluene-d8 - SS	97	77-132	10/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-51-GW11
Lab Code: D0601593-006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chloromethane	ND	U	0.23	1.0	1	10/18/2006	10/18/2006	M1018W01	
Vinyl Chloride	**4.7**		0.22	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromomethane	ND	U	0.27	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chloroethane	ND	U	0.20	1.0	1	10/18/2006	10/18/2006	M1018W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/18/2006	10/18/2006	M1018W01	
Acetone	ND	U	1.0	10	1	10/18/2006	10/18/2006	M1018W01	
Carbon Disulfide	**0.49**	J	0.11	2.0	1	10/18/2006	10/18/2006	M1018W01	
Dichloromethane (Methylene Chloride)	ND	U	0.15	2.0	1	10/18/2006	10/18/2006	M1018W01	
trans-1,2-Dichloroethene	**79**		0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Methyl tert-Butyl Ether	ND	U	0.17	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloroethane (1,1-DCA)	**25**		0.12	0.50	1	10/18/2006	10/18/2006	M1018W01	
Vinyl Acetate	ND	U	0.84	10	1	10/18/2006	10/18/2006	M1018W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/18/2006	10/18/2006	M1018W01	
2-Butanone (MEK)	ND	U	0.90	10	1	10/18/2006	10/18/2006	M1018W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/18/2006	10/18/2006	M1018W01	
Chloroform	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Benzene	**0.62**		0.12	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichloroethane (EDC)	**7.0**		0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
Dibromomethane	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/18/2006	10/18/2006	M1018W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/18/2006	10/18/2006	M1018W01	
Toluene	**0.16**	J	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,2-Trichloroethane	**1.4**		0.22	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
2-Hexanone	ND	U	0.58	10	1	10/18/2006	10/18/2006	M1018W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chlorobenzene	ND	U	0.15	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/18/2006	10/18/2006	M1018W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/18/2006	10/18/2006	M1018W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-51-GW11
Lab Code: D0601593-006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
m,p-Xylenes	ND	U	0.32	1.0	1	10/18/2006	10/18/2006	M1018W01	
o-Xylene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/18/2006	10/18/2006	M1018W01	
Styrene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromoform	ND	U	0.18	1.0	1	10/18/2006	10/18/2006	M1018W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromobenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/18/2006	10/18/2006	M1018W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/18/2006	10/18/2006	M1018W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/18/2006	10/18/2006	M1018W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/18/2006	10/18/2006	M1018W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/18/2006	10/18/2006	M1018W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/18/2006	10/18/2006	M1018W01	
Naphthalene	ND	U	0.29	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloroethene (1,1-DCE)	**330**	D	1.9	5.0	10	10/19/2006	10/19/2006	M1019W01	
cis-1,2-Dichloroethene	**4700**	D	17	50	100	10/19/2006	10/19/2006	M1019W01	
Trichloroethene (TCE)	**2400**	D	20	50	100	10/19/2006	10/19/2006	M1019W01	
Tetrachloroethene (PCE)	**3100**	D	22	50	100	10/19/2006	10/19/2006	M1019W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	104	82-124	10/18/2006	
Dibromofluoromethane - SS	110	84-127	10/18/2006	
Toluene-d8 - SS	97	80-117	10/18/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0601593-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloromethane	ND	U	0.23	1.0	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Chloride	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromomethane	ND	U	0.27	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloroethane	ND	U	0.20	1.0	1	10/19/2006	10/19/2006	M1019W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
Acetone	ND	U	1.0	10	1	10/19/2006	10/19/2006	M1019W01	
Carbon Disulfide	ND	U	0.11	2.0	1	10/19/2006	10/19/2006	M1019W01	
Dichloromethane (Methylene Chloride)	ND	U	0.15	2.0	1	10/19/2006	10/19/2006	M1019W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Methyl tert-Butyl Ether	ND	U	0.17	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Acetate	ND	U	0.84	10	1	10/19/2006	10/19/2006	M1019W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/19/2006	10/19/2006	M1019W01	
cis-1,2-Dichloroethene	**0.20**	J	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Butanone (MEK)	**2.0**	J	0.90	10	1	10/19/2006	10/19/2006	M1019W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/19/2006	10/19/2006	M1019W01	
Chloroform	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Benzene	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloroethane (EDC)	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Trichloroethene (TCE)	ND	U	0.20	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Dibromomethane	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/19/2006	10/19/2006	M1019W01	
Toluene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichloroethane	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Tetrachloroethene (PCE)	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Hexanone	ND	U	0.58	10	1	10/19/2006	10/19/2006	M1019W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: QCEB
Lab Code: D0601593-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chlorobenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/19/2006	10/19/2006	M1019W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
m,p-Xylenes	ND	U	0.32	1.0	1	10/19/2006	10/19/2006	M1019W01	
o-Xylene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/19/2006	10/19/2006	M1019W01	
Styrene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromoform	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromobenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/19/2006	10/19/2006	M1019W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/19/2006	10/19/2006	M1019W01	
Naphthalene	ND	U	0.29	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/19/2006	10/19/2006	M1019W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	101	82-124	10/19/2006	
Dibromofluoromethane - SS	111	84-127	10/19/2006	
Toluene-d8 - SS	97	80-117	10/19/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-51-GW26
Lab Code: D0601593-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloromethane	ND	U	0.23	1.0	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Chloride	**0.27**	J	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromomethane	ND	U	0.27	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloroethane	ND	U	0.20	1.0	1	10/19/2006	10/19/2006	M1019W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
Acetone	ND	U	1.0	10	1	10/19/2006	10/19/2006	M1019W01	
Carbon Disulfide	ND	U	0.11	2.0	1	10/19/2006	10/19/2006	M1019W01	
Dichloromethane (Methylene Chloride)	**0.19**	J	0.15	2.0	1	10/19/2006	10/19/2006	M1019W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Methyl tert-Butyl Ether	ND	U	0.17	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Acetate	ND	U	0.84	10	1	10/19/2006	10/19/2006	M1019W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/19/2006	10/19/2006	M1019W01	
cis-1,2-Dichloroethene	**3.5**		0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Butanone (MEK)	**1.1**	J	0.90	10	1	10/19/2006	10/19/2006	M1019W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/19/2006	10/19/2006	M1019W01	
Chloroform	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Benzene	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloroethane (EDC)	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Trichloroethene (TCE)	**0.59**		0.20	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Dibromomethane	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/19/2006	10/19/2006	M1019W01	
Toluene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichloroethane	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Tetrachloroethene (PCE)	**0.80**		0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Hexanone	ND	U	0.58	10	1	10/19/2006	10/19/2006	M1019W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-51-GW26
Lab Code: D0601593-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chlorobenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/19/2006	10/19/2006	M1019W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
m,p-Xylenes	ND	U	0.32	1.0	1	10/19/2006	10/19/2006	M1019W01	
o-Xylene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/19/2006	10/19/2006	M1019W01	
Styrene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromoform	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromobenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/19/2006	10/19/2006	M1019W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/19/2006	10/19/2006	M1019W01	
Naphthalene	ND	U	0.29	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/19/2006	10/19/2006	M1019W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	103	82-124	10/19/2006	
Dibromofluoromethane - SS	117	84-127	10/19/2006	
Toluene-d8 - SS	97	80-117	10/19/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-51-GW38
Lab Code: D0601593-009
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloromethane	ND	U	0.23	1.0	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Chloride	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromomethane	ND	U	0.27	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloroethane	ND	U	0.20	1.0	1	10/19/2006	10/19/2006	M1019W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethene (1,1-DCE)	**0.26**	J	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
Acetone	**6.6**	J	1.0	10	1	10/19/2006	10/19/2006	M1019W01	
Carbon Disulfide	**0.76**	J	0.11	2.0	1	10/19/2006	10/19/2006	M1019W01	
Dichloromethane (Methylene Chloride)	ND	U	0.15	2.0	1	10/19/2006	10/19/2006	M1019W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Methyl tert-Butyl Ether	ND	U	0.17	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Acetate	ND	U	0.84	10	1	10/19/2006	10/19/2006	M1019W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/19/2006	10/19/2006	M1019W01	
cis-1,2-Dichloroethene	**11**		0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Butanone (MEK)	**2.4**	J	0.90	10	1	10/19/2006	10/19/2006	M1019W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/19/2006	10/19/2006	M1019W01	
Chloroform	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Benzene	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloroethane (EDC)	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Trichloroethene (TCE)	**1.8**		0.20	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Dibromomethane	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/19/2006	10/19/2006	M1019W01	
Toluene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichloroethane	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Tetrachloroethene (PCE)	**1.9**		0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Hexanone	ND	U	0.58	10	1	10/19/2006	10/19/2006	M1019W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Volatile Organic Compounds

Sample Name: T-51-GW38
Lab Code: D0601593-009
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chlorobenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/19/2006	10/19/2006	M1019W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
m,p-Xylenes	ND	U	0.32	1.0	1	10/19/2006	10/19/2006	M1019W01	
o-Xylene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/19/2006	10/19/2006	M1019W01	
Styrene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromoform	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromobenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/19/2006	10/19/2006	M1019W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/19/2006	10/19/2006	M1019W01	
Naphthalene	ND	U	0.29	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/19/2006	10/19/2006	M1019W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	105	82-124	10/19/2006	
Dibromofluoromethane - SS	118	84-127	10/19/2006	
Toluene-d8 - SS	95	80-117	10/19/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: M1018W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chloromethane	ND	U	0.23	1.0	1	10/18/2006	10/18/2006	M1018W01	
Vinyl Chloride	ND	U	0.22	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromomethane	ND	U	0.27	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chloroethane	ND	U	0.20	1.0	1	10/18/2006	10/18/2006	M1018W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.19	0.50	1	10/18/2006	10/18/2006	M1018W01	
Acetone	ND	U	1.0	10	1	10/18/2006	10/18/2006	M1018W01	
Carbon Disulfide	ND	U	0.11	2.0	1	10/18/2006	10/18/2006	M1018W01	
Dichloromethane (Methylene Chloride)	ND	U	0.15	2.0	1	10/18/2006	10/18/2006	M1018W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Methyl tert-Butyl Ether	ND	U	0.17	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.12	0.50	1	10/18/2006	10/18/2006	M1018W01	
Vinyl Acetate	ND	U	0.84	10	1	10/18/2006	10/18/2006	M1018W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/18/2006	10/18/2006	M1018W01	
cis-1,2-Dichloroethene	ND	U	0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
2-Butanone (MEK)	ND	U	0.90	10	1	10/18/2006	10/18/2006	M1018W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/18/2006	10/18/2006	M1018W01	
Chloroform	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Benzene	ND	U	0.12	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichloroethane (EDC)	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Trichloroethene (TCE)	ND	U	0.10	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
Dibromomethane	ND	U	0.18	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/18/2006	10/18/2006	M1018W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/18/2006	10/18/2006	M1018W01	
Toluene	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,2-Trichloroethane	ND	U	0.22	0.50	1	10/18/2006	10/18/2006	M1018W01	
Tetrachloroethene (PCE)	ND	U	0.22	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
2-Hexanone	ND	U	0.58	10	1	10/18/2006	10/18/2006	M1018W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: M1018W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
Chlorobenzene	ND	U	0.15	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/18/2006	10/18/2006	M1018W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/18/2006	10/18/2006	M1018W01	
m,p-Xylenes	ND	U	0.32	1.0	1	10/18/2006	10/18/2006	M1018W01	
o-Xylene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/18/2006	10/18/2006	M1018W01	
Styrene	ND	U	0.16	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromoform	ND	U	0.18	1.0	1	10/18/2006	10/18/2006	M1018W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/18/2006	10/18/2006	M1018W01	
Bromobenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/18/2006	10/18/2006	M1018W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/18/2006	10/18/2006	M1018W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/18/2006	10/18/2006	M1018W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/18/2006	10/18/2006	M1018W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/18/2006	10/18/2006	M1018W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/18/2006	10/18/2006	M1018W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/18/2006	10/18/2006	M1018W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/18/2006	10/18/2006	M1018W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/18/2006	10/18/2006	M1018W01	
Naphthalene	ND	U	0.29	1.0	1	10/18/2006	10/18/2006	M1018W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/18/2006	10/18/2006	M1018W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	102	82-124	10/18/2006	
Dibromofluoromethane - SS	111	84-127	10/18/2006	
Toluene-d8 - SS	99	80-117	10/18/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: M1019W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloromethane	ND	U	0.23	1.0	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Chloride	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromomethane	ND	U	0.27	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chloroethane	ND	U	0.20	1.0	1	10/19/2006	10/19/2006	M1019W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
Acetone	ND	U	1.0	10	1	10/19/2006	10/19/2006	M1019W01	
Carbon Disulfide	ND	U	0.11	2.0	1	10/19/2006	10/19/2006	M1019W01	
Dichloromethane (Methylene Chloride)	ND	U	0.15	2.0	1	10/19/2006	10/19/2006	M1019W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Methyl tert-Butyl Ether	ND	U	0.17	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
Vinyl Acetate	ND	U	0.84	10	1	10/19/2006	10/19/2006	M1019W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/19/2006	10/19/2006	M1019W01	
cis-1,2-Dichloroethene	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Butanone (MEK)	ND	U	0.90	10	1	10/19/2006	10/19/2006	M1019W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/19/2006	10/19/2006	M1019W01	
Chloroform	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Benzene	ND	U	0.12	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloroethane (EDC)	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Trichloroethene (TCE)	ND	U	0.20	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Dibromomethane	ND	U	0.18	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/19/2006	10/19/2006	M1019W01	
Toluene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,2-Trichloroethane	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
Tetrachloroethene (PCE)	ND	U	0.22	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
2-Hexanone	ND	U	0.58	10	1	10/19/2006	10/19/2006	M1019W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: M1019W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
Chlorobenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/19/2006	10/19/2006	M1019W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/19/2006	10/19/2006	M1019W01	
m,p-Xylenes	ND	U	0.32	1.0	1	10/19/2006	10/19/2006	M1019W01	
o-Xylene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/19/2006	10/19/2006	M1019W01	
Styrene	ND	U	0.16	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromoform	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/19/2006	10/19/2006	M1019W01	
Bromobenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/19/2006	10/19/2006	M1019W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/19/2006	10/19/2006	M1019W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/19/2006	10/19/2006	M1019W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/19/2006	10/19/2006	M1019W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/19/2006	10/19/2006	M1019W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/19/2006	10/19/2006	M1019W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/19/2006	10/19/2006	M1019W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/19/2006	10/19/2006	M1019W01	
Naphthalene	ND	U	0.29	1.0	1	10/19/2006	10/19/2006	M1019W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/19/2006	10/19/2006	M1019W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	100	82-124	10/19/2006	
Dibromofluoromethane - SS	109	84-127	10/19/2006	
Toluene-d8 - SS	97	80-117	10/19/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: M1020W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.36	1.0	1	10/20/2006	10/20/2006	M1020W01	
Chloromethane	ND	U	0.23	1.0	1	10/20/2006	10/20/2006	M1020W01	
Vinyl Chloride	ND	U	0.22	0.50	1	10/20/2006	10/20/2006	M1020W01	
Bromomethane	ND	U	0.27	1.0	1	10/20/2006	10/20/2006	M1020W01	
Chloroethane	ND	U	0.20	1.0	1	10/20/2006	10/20/2006	M1020W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.14	1.0	1	10/20/2006	10/20/2006	M1020W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.44	2.0	1	10/20/2006	10/20/2006	M1020W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.19	0.50	1	10/20/2006	10/20/2006	M1020W01	
Acetone	ND	U	1.0	10	1	10/20/2006	10/20/2006	M1020W01	
Carbon Disulfide	ND	U	0.11	2.0	1	10/20/2006	10/20/2006	M1020W01	
Dichloromethane (Methylene Chloride)	ND	U	0.15	2.0	1	10/20/2006	10/20/2006	M1020W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	10/20/2006	10/20/2006	M1020W01	
Methyl tert-Butyl Ether	ND	U	0.17	2.0	1	10/20/2006	10/20/2006	M1020W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.12	0.50	1	10/20/2006	10/20/2006	M1020W01	
Vinyl Acetate	ND	U	0.84	10	1	10/20/2006	10/20/2006	M1020W01	
2,2-Dichloropropane	ND	U	0.33	0.50	1	10/20/2006	10/20/2006	M1020W01	
cis-1,2-Dichloroethene	ND	U	0.17	0.50	1	10/20/2006	10/20/2006	M1020W01	
2-Butanone (MEK)	ND	U	0.90	10	1	10/20/2006	10/20/2006	M1020W01	
Bromochloromethane	ND	U	0.25	0.50	1	10/20/2006	10/20/2006	M1020W01	
Chloroform	ND	U	0.14	0.50	1	10/20/2006	10/20/2006	M1020W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.14	0.50	1	10/20/2006	10/20/2006	M1020W01	
1,1-Dichloropropene	ND	U	0.18	0.50	1	10/20/2006	10/20/2006	M1020W01	
Carbon Tetrachloride	ND	U	0.18	0.50	1	10/20/2006	10/20/2006	M1020W01	
Benzene	ND	U	0.12	0.50	1	10/20/2006	10/20/2006	M1020W01	
1,2-Dichloroethane (EDC)	ND	U	0.18	0.50	1	10/20/2006	10/20/2006	M1020W01	
Trichloroethene (TCE)	ND	U	0.20	0.50	1	10/20/2006	10/20/2006	M1020W01	
1,2-Dichloropropane	ND	U	0.17	0.50	1	10/20/2006	10/20/2006	M1020W01	
Dibromomethane	ND	U	0.18	0.50	1	10/20/2006	10/20/2006	M1020W01	
Bromodichloromethane	ND	U	0.17	1.0	1	10/20/2006	10/20/2006	M1020W01	
cis-1,3-Dichloropropene	ND	U	0.13	0.50	1	10/20/2006	10/20/2006	M1020W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.85	10	1	10/20/2006	10/20/2006	M1020W01	
Toluene	ND	U	0.14	0.50	1	10/20/2006	10/20/2006	M1020W01	
trans-1,3-Dichloropropene	ND	U	0.19	0.50	1	10/20/2006	10/20/2006	M1020W01	
1,1,2-Trichloroethane	ND	U	0.22	0.50	1	10/20/2006	10/20/2006	M1020W01	
Tetrachloroethene (PCE)	ND	U	0.22	0.50	1	10/20/2006	10/20/2006	M1020W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	10/20/2006	10/20/2006	M1020W01	
2-Hexanone	ND	U	0.58	10	1	10/20/2006	10/20/2006	M1020W01	
Dibromochloromethane	ND	U	0.15	1.0	1	10/20/2006	10/20/2006	M1020W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: M1020W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.15	1.0	1	10/20/2006	10/20/2006	M1020W01	
Chlorobenzene	ND	U	0.15	0.50	1	10/20/2006	10/20/2006	M1020W01	
1,1,1,2-Tetrachloroethane	ND	U	0.23	0.50	1	10/20/2006	10/20/2006	M1020W01	
Ethylbenzene	ND	U	0.15	0.50	1	10/20/2006	10/20/2006	M1020W01	
m,p-Xylenes	ND	U	0.32	1.0	1	10/20/2006	10/20/2006	M1020W01	
o-Xylene	ND	U	0.16	0.50	1	10/20/2006	10/20/2006	M1020W01	
Xylenes, Total	ND	U	0.14	1.5	1	10/20/2006	10/20/2006	M1020W01	
Styrene	ND	U	0.16	0.50	1	10/20/2006	10/20/2006	M1020W01	
Bromoform	ND	U	0.18	1.0	1	10/20/2006	10/20/2006	M1020W01	
Isopropylbenzene	ND	U	0.17	1.0	1	10/20/2006	10/20/2006	M1020W01	
1,1,2,2-Tetrachloroethane	ND	U	0.17	0.50	1	10/20/2006	10/20/2006	M1020W01	
Bromobenzene	ND	U	0.17	1.0	1	10/20/2006	10/20/2006	M1020W01	
1,2,3-Trichloropropane	ND	U	0.20	5.0	1	10/20/2006	10/20/2006	M1020W01	
n-Propylbenzene	ND	U	0.13	1.0	1	10/20/2006	10/20/2006	M1020W01	
2-Chlorotoluene	ND	U	0.16	1.0	1	10/20/2006	10/20/2006	M1020W01	
1,3,5-Trimethylbenzene	ND	U	0.15	1.0	1	10/20/2006	10/20/2006	M1020W01	
4-Chlorotoluene	ND	U	0.16	1.0	1	10/20/2006	10/20/2006	M1020W01	
tert-Butylbenzene	ND	U	0.18	1.0	1	10/20/2006	10/20/2006	M1020W01	
1,2,4-Trimethylbenzene	ND	U	0.13	1.0	1	10/20/2006	10/20/2006	M1020W01	
sec-Butylbenzene	ND	U	0.17	1.0	1	10/20/2006	10/20/2006	M1020W01	
1,3-Dichlorobenzene	ND	U	0.11	0.50	1	10/20/2006	10/20/2006	M1020W01	
4-Isopropyltoluene	ND	U	0.10	1.0	1	10/20/2006	10/20/2006	M1020W01	
1,4-Dichlorobenzene	ND	U	0.11	0.50	1	10/20/2006	10/20/2006	M1020W01	
n-Butylbenzene	ND	U	0.33	1.0	1	10/20/2006	10/20/2006	M1020W01	
1,2-Dichlorobenzene	ND	U	0.14	0.50	1	10/20/2006	10/20/2006	M1020W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.81	2.0	1	10/20/2006	10/20/2006	M1020W01	
1,2,4-Trichlorobenzene	ND	U	0.36	1.0	1	10/20/2006	10/20/2006	M1020W01	
Hexachlorobutadiene	ND	U	0.60	1.0	1	10/20/2006	10/20/2006	M1020W01	
Naphthalene	ND	U	0.29	1.0	1	10/20/2006	10/20/2006	M1020W01	
1,2,3-Trichlorobenzene	ND	U	0.37	1.0	1	10/20/2006	10/20/2006	M1020W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	96	82-124	10/20/2006	
Dibromofluoromethane - SS	112	84-127	10/20/2006	
Toluene-d8 - SS	94	80-117	10/20/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601593
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U1017S01
Extraction SW5030
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Dry
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	1.0	5.0	1	10/17/2006	10/17/2006	U1017S01	
Chloromethane	ND	U	0.88	5.0	1	10/17/2006	10/17/2006	U1017S01	
Vinyl Chloride	ND	U	0.80	5.0	1	10/17/2006	10/17/2006	U1017S01	
Bromomethane	ND	U	5.0	5.0	1	10/17/2006	10/17/2006	U1017S01	
Chloroethane	ND	U	1.4	5.0	1	10/17/2006	10/17/2006	U1017S01	
Trichlorofluoromethane (CFC 11)	ND	U	0.85	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.87	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.85	5.0	1	10/17/2006	10/17/2006	U1017S01	
Acetone	**5.4**	J	5.1	25	1	10/17/2006	10/17/2006	U1017S01	
Carbon Disulfide	ND	U	0.62	5.0	1	10/17/2006	10/17/2006	U1017S01	
Dichloromethane (Methylene Chloride)	**2.8**	J	0.81	5.0	1	10/17/2006	10/17/2006	U1017S01	
trans-1,2-Dichloroethene	ND	U	0.92	5.0	1	10/17/2006	10/17/2006	U1017S01	
Methyl tert-Butyl Ether	ND	U	0.83	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.81	5.0	1	10/17/2006	10/17/2006	U1017S01	
Vinyl Acetate	ND	U	0.47	5.0	1	10/17/2006	10/17/2006	U1017S01	
2,2-Dichloropropane	ND	U	0.78	5.0	1	10/17/2006	10/17/2006	U1017S01	
cis-1,2-Dichloroethene	ND	U	0.80	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichloroethene, Total	ND	U	0.80	5.0	1	10/17/2006	10/17/2006	U1017S01	
2-Butanone (MEK)	ND	U	5.0	25	1	10/17/2006	10/17/2006	U1017S01	
Bromochloromethane	ND	U	0.79	5.0	1	10/17/2006	10/17/2006	U1017S01	
Chloroform	ND	U	0.82	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,1,1-Trichloroethane (TCA)	ND	U	0.77	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,1-Dichloropropene	ND	U	0.83	5.0	1	10/17/2006	10/17/2006	U1017S01	
Carbon Tetrachloride	ND	U	0.78	5.0	1	10/17/2006	10/17/2006	U1017S01	
Benzene	ND	U	0.82	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichloroethane (EDC)	ND	U	0.84	5.0	1	10/17/2006	10/17/2006	U1017S01	
Trichloroethene (TCE)	ND	U	0.85	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichloropropane	ND	U	0.77	5.0	1	10/17/2006	10/17/2006	U1017S01	
Dibromomethane	ND	U	0.82	5.0	1	10/17/2006	10/17/2006	U1017S01	
Bromodichloromethane	ND	U	0.74	5.0	1	10/17/2006	10/17/2006	U1017S01	
cis-1,3-Dichloropropene	ND	U	0.78	5.0	1	10/17/2006	10/17/2006	U1017S01	
4-Methyl-2-pentanone (MIBK)	ND	U	6.1	25	1	10/17/2006	10/17/2006	U1017S01	
Toluene	ND	U	0.84	5.0	1	10/17/2006	10/17/2006	U1017S01	
trans-1,3-Dichloropropene	ND	U	0.65	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,1,2-Trichloroethane	ND	U	0.91	5.0	1	10/17/2006	10/17/2006	U1017S01	
Tetrachloroethene (PCE)	ND	U	0.78	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,3-Dichloropropane	ND	U	0.84	5.0	1	10/17/2006	10/17/2006	U1017S01	
2-Hexanone	ND	U	7.7	25	1	10/17/2006	10/17/2006	U1017S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601593
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U1017S01
Extraction SW5030
Analysis Method: SW8260

Units: ug/Kg (ppb
Basis: Dry
Level: LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.82	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dibromoethane (EDB)	ND	U	0.81	5.0	1	10/17/2006	10/17/2006	U1017S01	
Chlorobenzene	ND	U	0.86	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,1,1,2-Tetrachloroethane	ND	U	0.75	5.0	1	10/17/2006	10/17/2006	U1017S01	
Ethylbenzene	ND	U	0.86	5.0	1	10/17/2006	10/17/2006	U1017S01	
m,p-Xylenes	ND	U	1.9	5.0	1	10/17/2006	10/17/2006	U1017S01	
o-Xylene	ND	U	0.84	5.0	1	10/17/2006	10/17/2006	U1017S01	
Xylenes, Total	ND	U	0.84	5.0	1	10/17/2006	10/17/2006	U1017S01	
Styrene	ND	U	0.81	5.0	1	10/17/2006	10/17/2006	U1017S01	
Bromoform	ND	U	0.88	5.0	1	10/17/2006	10/17/2006	U1017S01	
Isopropylbenzene	ND	U	0.75	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,1,2,2-Tetrachloroethane	ND	U	0.61	5.0	1	10/17/2006	10/17/2006	U1017S01	
Bromobenzene	ND	U	0.79	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,2,3-Trichloropropane	ND	U	1.1	5.0	1	10/17/2006	10/17/2006	U1017S01	
n-Propylbenzene	ND	U	0.84	5.0	1	10/17/2006	10/17/2006	U1017S01	
2-Chlorotoluene	ND	U	0.88	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,3,5-Trimethylbenzene	ND	U	0.87	5.0	1	10/17/2006	10/17/2006	U1017S01	
4-Chlorotoluene	ND	U	0.87	5.0	1	10/17/2006	10/17/2006	U1017S01	
tert-Butylbenzene	ND	U	0.87	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,2,4-Trimethylbenzene	ND	U	0.84	5.0	1	10/17/2006	10/17/2006	U1017S01	
sec-Butylbenzene	ND	U	0.88	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,3-Dichlorobenzene	ND	U	0.92	5.0	1	10/17/2006	10/17/2006	U1017S01	
4-Isopropyltoluene	ND	U	0.85	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,4-Dichlorobenzene	ND	U	0.92	5.0	1	10/17/2006	10/17/2006	U1017S01	
n-Butylbenzene	ND	U	0.91	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dichlorobenzene	ND	U	1.1	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	3.2	25	1	10/17/2006	10/17/2006	U1017S01	
1,2,4-Trichlorobenzene	ND	U	1.2	5.0	1	10/17/2006	10/17/2006	U1017S01	
Hexachlorobutadiene	ND	U	1.0	5.0	1	10/17/2006	10/17/2006	U1017S01	
Naphthalene	ND	U	1.6	5.0	1	10/17/2006	10/17/2006	U1017S01	
1,2,3-Trichlorobenzene	ND	U	1.4	5.0	1	10/17/2006	10/17/2006	U1017S01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank		
Lab Code:	U1017S01	**Units:**	ug/Kg (ppb
Extraction	SW5030	**Basis:**	Dry
Analysis Method:	SW8260	**Level:**	LOW

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	102	69-138	10/17/2006	
Dibromofluoromethane - SS	104	74-131	10/17/2006	
Toluene-d8 - SS	99	77-132	10/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601593

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3
Laboratory Control Sample	U1017S01LCS		96	106	98
Laboratory Control Sample Duplicate	U1017S01LCSD		95	103	96
Method Blank	U1017S01		102	104	99
T-50-S6.5	D0601593-001		98	96	98
T-51-S7	D0601593-005		102	99	97

Surrogate Recovery Control Limits (%)

S1:	4-Bromofluorobenzene - SS	69-138
S2:	Dibromofluoromethane - SS	74-131
S3:	Toluene-d8 - SS	77-132

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3
Laboratory Control Sample	M1018W01LCS		101	101	101
Laboratory Control Sample Duplicate	M1018W01LCSD		102	102	100
Method Blank	M1018W01		102	111	99
T-50-GW11	D0601593-002		100	109	95
T-50-GW41	D0601593-004		105	113	97
T-51-GW11	D0601593-006		104	110	97
Laboratory Control Sample	M1019W01LCS		103	101	101
Laboratory Control Sample Duplicate	M1019W01LCSD		102	103	100
Method Blank	M1019W01		100	109	97
T-50-GW26	D0601593-003		105	117	96
QCEB	D0601593-007		101	111	97
T-51-GW26	D0601593-008		103	117	97
T-51-GW38	D0601593-009		105	118	95
Laboratory Control Sample	M1020W01LCS		101	105	102
Laboratory Control Sample Duplicate	M1020W01LCSD		100	105	102
Method Blank	M1020W01		96	112	94

Surrogate Recovery Control Limits (%)

S1:	4-Bromofluorobenzene - SS	82-124
S2:	Dibromofluoromethane - SS	84-127
S3:	Toluene-d8 - SS	80-117

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	10/18/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	M1018W01LCS / M1018W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	12.3	11.3	123	113	27-158	8	
Chloromethane	1.0	10.0	11.0	11.5	110	115	51-137	4	
Vinyl Chloride	0.50	10.0	10.8	11.0	108	110	57-137	2	
Bromomethane	1.0	10.0	10.6	11.5	106	115	44-156	8	
Chloroethane	1.0	10.0	10.5	10.2	105	102	60-140	3	
Trichlorofluoromethane (CFC 11)	1.0	10.0	10.5	10.2	105	102	54-146	3	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	10.3	10.1	103	101	67-139	2	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	10.8	10.8	108	108	70-130	0	
Acetone	10	50.0	50.4	46.4	101	93	55-137	8	
Carbon Disulfide	2.0	10.0	9.6	9.7	96	97	50-127	1	
Dichloromethane (Methylene Chloride)	2.0	10.0	9.9	10.0	99	100	73-121	1	
trans-1,2-Dichloroethene	0.50	10.0	9.7	9.6	97	96	74-124	1	
Methyl tert-Butyl Ether	2.0	10.0	9.6	9.5	96	95	75-119	1	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	9.8	9.8	98	98	78-121	0	
Vinyl Acetate	10	10.0	8.9	8.1	89	81	52-129	9	
2,2-Dichloropropane	0.50	10.0	9.9	10.1	99	101	61-137	2	
cis-1,2-Dichloroethene	0.50	10.0	10.4	10.2	104	102	80-118	2	
2-Butanone (MEK)	10	50.0	52.2	49.6	104	99	76-122	5	
Bromochloromethane	0.50	10.0	9.8	9.9	98	99	82-118	1	
Chloroform	0.50	10.0	9.8	9.8	98	98	73-125	0	
1,1,1-Trichloroethane (TCA)	0.50	10.0	9.7	9.8	97	98	76-124	1	
1,1-Dichloropropene	0.50	10.0	9.8	9.7	98	97	80-119	1	
Carbon Tetrachloride	0.50	10.0	10.0	9.9	100	99	68-135	1	
Benzene	0.50	10.0	10.2	10.4	102	104	81-119	2	
1,2-Dichloroethane (EDC)	0.50	10.0	10.0	9.8	100	98	75-122	2	
Trichloroethene (TCE)	0.50	10.0	9.9	10.1	99	101	79-118	2	
1,2-Dichloropropane	0.50	10.0	10.0	9.8	100	98	82-115	2	
Dibromomethane	0.50	10.0	10.1	10.1	101	101	84-116	0	
Bromodichloromethane	1.0	10.0	9.9	10.0	99	100	81-122	1	
cis-1,3-Dichloropropene	0.50	10.0	10.1	10.1	101	101	78-118	0	
4-Methyl-2-pentanone (MIBK)	10	50.0	54.0	53.0	108	106	81-127	2	
Toluene	0.50	10.0	9.8	9.6	98	96	83-116	2	
trans-1,3-Dichloropropene	0.50	10.0	9.6	9.5	96	95	73-122	1	
1,1,2-Trichloroethane	0.50	10.0	9.9	9.7	99	97	83-120	2	
Tetrachloroethene (PCE)	0.50	10.0	10.0	9.9	100	99	82-118	1	
1,3-Dichloropropane	0.50	10.0	9.9	9.7	99	97	82-119	2	
2-Hexanone	10	50.0	52.9	50.9	106	102	81-130	4	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 10/18/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample Lab Control Sample
Lab Code: M1018W01LCS / M1018W01LCSD
Extraction SW5030
Analysis Method: SW8260

DLCS Sample Lab Control Sample Duplicate
Units: ug/L (ppb)

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	10.0	9.8	100	98	79-124	2	
1,2-Dibromoethane (EDB)	1.0	10.0	9.9	9.6	99	96	82-116	3	
Chlorobenzene	0.50	10.0	10.1	9.9	101	99	86-114	2	
1,1,1,2-Tetrachloroethane	0.50	10.0	10.0	9.6	100	96	79-122	4	
Ethylbenzene	0.50	10.0	10.4	10.3	104	103	86-116	1	
m,p-Xylenes	1.0	20.0	20.9	20.9	104	104	86-117	0	
o-Xylene	0.50	10.0	10.2	10.1	102	101	86-119	1	
Xylenes, Total	1.5	30.0	31.2	31.0	104	103	85-117	1	
Styrene	0.50	10.0	10.4	10.4	104	104	84-119	0	
Bromoform	1.0	10.0	10.1	10.0	101	100	71-133	1	
Isopropylbenzene	1.0	10.0	10.7	10.6	107	106	77-117	1	
1,1,2,2-Tetrachloroethane	0.50	10.0	9.6	9.9	96	99	80-117	3	
Bromobenzene	1.0	10.0	10.0	9.8	100	98	84-120	2	
1,2,3-Trichloropropane	5.0	10.0	9.9	9.6	99	96	81-122	3	
n-Propylbenzene	1.0	10.0	9.9	9.7	99	97	87-117	2	
2-Chlorotoluene	1.0	10.0	10.2	10.0	102	100	87-119	2	
1,3,5-Trimethylbenzene	1.0	10.0	10.8	10.1	108	101	83-120	7	
4-Chlorotoluene	1.0	10.0	10.0	10.0	100	100	86-118	0	
tert-Butylbenzene	1.0	10.0	9.3	10.9	93	109	82-122	16	
1,2,4-Trimethylbenzene	1.0	10.0	11.5	11.5	115	115	86-121	0	
sec-Butylbenzene	1.0	10.0	11.2	11.1	112	111	84-128	1	
1,3-Dichlorobenzene	0.50	10.0	10.0	9.9	100	99	85-119	1	
4-Isopropyltoluene	1.0	10.0	10.7	10.5	107	105	84-121	2	
1,4-Dichlorobenzene	0.50	10.0	9.8	9.8	98	98	84-118	0	
n-Butylbenzene	1.0	10.0	9.7	9.6	97	96	81-123	1	
1,2-Dichlorobenzene	0.50	10.0	10.0	9.8	100	98	85-117	2	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	50.0	38.2	36.0	76	72	67-121	6	
1,2,4-Trichlorobenzene	1.0	10.0	9.4	9.3	94	93	69-128	1	
Hexachlorobutadiene	1.0	10.0	10.1	10.0	101	100	71-135	1	
Naphthalene	1.0	10.0	9.8	9.6	98	96	60-131	2	
1,2,3-Trichlorobenzene	1.0	10.0	9.5	9.5	95	95	69-130	0	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	10/19/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	M1019W01LCS / M1019W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	11.2	11.6	112	116	27-158	4	
Chloromethane	1.0	10.0	10.7	11.2	107	112	51-137	4	
Vinyl Chloride	0.50	10.0	10.5	10.7	105	107	57-137	2	
Bromomethane	1.0	10.0	10.6	11.2	106	112	44-156	6	
Chloroethane	1.0	10.0	9.9	9.9	99	99	60-140	0	
Trichlorofluoromethane (CFC 11)	1.0	10.0	11.3	10.8	113	108	54-146	4	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	10.2	10.2	102	102	67-139	0	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	10.3	10.3	103	103	70-130	0	
Acetone	10	50.0	43.2	47.1	86	94	55-137	9	
Carbon Disulfide	2.0	10.0	9.2	9.2	92	92	50-127	0	
Dichloromethane (Methylene Chloride)	2.0	10.0	9.8	9.9	98	99	73-121	1	
trans-1,2-Dichloroethene	0.50	10.0	9.2	9.3	92	93	74-124	1	
Methyl tert-Butyl Ether	2.0	10.0	9.0	9.6	90	96	75-119	6	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	9.4	9.6	94	96	78-121	2	
Vinyl Acetate	10	10.0	8.4	9.1	84	91	52-129	8	
2,2-Dichloropropane	0.50	10.0	10.0	9.8	100	98	61-137	2	
cis-1,2-Dichloroethene	0.50	10.0	9.9	10.2	99	102	80-118	3	
2-Butanone (MEK)	10	50.0	48.1	50.6	96	101	76-122	5	
Bromochloromethane	0.50	10.0	9.5	9.9	95	99	82-118	4	
Chloroform	0.50	10.0	9.4	9.6	94	96	73-125	2	
1,1,1-Trichloroethane (TCA)	0.50	10.0	9.4	9.7	94	97	76-124	3	
1,1-Dichloropropene	0.50	10.0	9.3	9.5	93	95	80-119	2	
Carbon Tetrachloride	0.50	10.0	9.7	9.7	97	97	68-135	0	
Benzene	0.50	10.0	9.9	10.2	99	102	81-119	3	
1,2-Dichloroethane (EDC)	0.50	10.0	9.5	10.1	95	101	75-122	6	
Trichloroethene (TCE)	0.50	10.0	9.8	10.0	98	100	79-118	2	
1,2-Dichloropropane	0.50	10.0	9.4	9.7	94	97	82-115	3	
Dibromomethane	0.50	10.0	9.6	10.2	96	102	84-116	6	
Bromodichloromethane	1.0	10.0	9.6	10.0	96	100	81-122	4	
cis-1,3-Dichloropropene	0.50	10.0	9.6	10.2	96	102	78-118	6	
4-Methyl-2-pentanone (MIBK)	10	50.0	51.2	53.6	102	107	81-127	4	
Toluene	0.50	10.0	9.4	9.4	94	94	83-116	0	
trans-1,3-Dichloropropene	0.50	10.0	9.3	9.7	93	97	73-122	4	
1,1,2-Trichloroethane	0.50	10.0	9.6	10.0	96	100	83-120	4	
Tetrachloroethene (PCE)	0.50	10.0	9.8	9.9	98	99	82-118	1	
1,3-Dichloropropane	0.50	10.0	9.4	9.9	94	99	82-119	5	
2-Hexanone	10	50.0	50.1	52.0	100	104	81-130	4	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	10/19/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	M1019W01LCS / M1019W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	9.6	10.0	96	100	79-124	4	
1,2-Dibromoethane (EDB)	1.0	10.0	9.5	9.8	95	98	82-116	3	
Chlorobenzene	0.50	10.0	9.7	10.0	97	100	86-114	3	
1,1,1,2-Tetrachloroethane	0.50	10.0	9.7	10.0	97	100	79-122	3	
Ethylbenzene	0.50	10.0	10.0	10.2	100	102	86-116	2	
m,p-Xylenes	1.0	20.0	20.2	20.8	101	104	86-117	3	
o-Xylene	0.50	10.0	9.8	10.0	98	100	86-119	2	
Xylenes, Total	1.5	30.0	30.0	30.8	100	103	85-117	3	
Styrene	0.50	10.0	10.1	10.3	101	103	84-119	2	
Bromoform	1.0	10.0	9.5	9.8	95	98	71-133	3	
Isopropylbenzene	1.0	10.0	10.1	10.4	101	104	77-117	3	
1,1,2,2-Tetrachloroethane	0.50	10.0	9.5	10.2	95	102	80-117	7	
Bromobenzene	1.0	10.0	9.8	9.9	98	99	84-120	1	
1,2,3-Trichloropropane	5.0	10.0	9.8	10.1	98	101	81-122	3	
n-Propylbenzene	1.0	10.0	9.6	9.8	96	98	87-117	2	
2-Chlorotoluene	1.0	10.0	9.8	10.4	98	104	87-119	6	
1,3,5-Trimethylbenzene	1.0	10.0	10.4	10.2	104	102	83-120	2	
4-Chlorotoluene	1.0	10.0	9.8	10.0	98	100	86-118	2	
tert-Butylbenzene	1.0	10.0	8.9	10.9	89	109	82-122	20	
1,2,4-Trimethylbenzene	1.0	10.0	11.2	11.6	112	116	86-121	4	
sec-Butylbenzene	1.0	10.0	10.7	11.1	107	111	84-128	4	
1,3-Dichlorobenzene	0.50	10.0	9.6	10.0	96	100	85-119	4	
4-Isopropyltoluene	1.0	10.0	10.2	10.6	102	106	84-121	4	
1,4-Dichlorobenzene	0.50	10.0	9.6	10.0	96	100	84-118	4	
n-Butylbenzene	1.0	10.0	9.3	9.8	93	98	81-123	5	
1,2-Dichlorobenzene	0.50	10.0	9.7	10.1	97	101	85-117	4	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	50.0	35.3	36.9	71	74	67-121	4	
1,2,4-Trichlorobenzene	1.0	10.0	9.1	10.0	91	100	69-128	9	
Hexachlorobutadiene	1.0	10.0	9.7	10.0	97	100	71-135	3	
Naphthalene	1.0	10.0	9.4	10.3	94	103	60-131	9	
1,2,3-Trichlorobenzene	1.0	10.0	9.0	10.1	90	101	69-130	12	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 10/20/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample Lab Control Sample
Lab Code: M1020W01LCS / M1020W01LCSD
Extraction SW5030
Analysis Method: SW8260

DLCS Sample Lab Control Sample Duplicate
Units: ug/L (ppb)

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	11.4	11.6	114	116	27-158	2	
Chloromethane	1.0	10.0	11.4	11.2	114	112	51-137	2	
Vinyl Chloride	0.50	10.0	11.2	11.3	112	113	57-137	1	
Bromomethane	1.0	10.0	11.6	11.2	116	112	44-156	4	
Chloroethane	1.0	10.0	10.5	10.3	105	103	60-140	2	
Trichlorofluoromethane (CFC 11)	1.0	10.0	11.2	11.2	112	112	54-146	0	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	10.2	10.7	102	107	67-139	5	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	10.5	10.8	105	108	70-130	3	
Acetone	10	50.0	44.4	48.1	89	96	55-137	8	
Carbon Disulfide	2.0	10.0	9.5	9.6	95	96	50-127	1	
Dichloromethane (Methylene Chloride)	2.0	10.0	10.2	10.0	102	100	73-121	2	
trans-1,2-Dichloroethene	0.50	10.0	9.6	9.8	96	98	74-124	2	
Methyl tert-Butyl Ether	2.0	10.0	9.2	9.7	92	97	75-119	5	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	9.8	9.9	98	99	78-121	1	
Vinyl Acetate	10	10.0	8.7	9.0	87	90	52-129	3	
2,2-Dichloropropane	0.50	10.0	10.3	10.1	103	101	61-137	2	
cis-1,2-Dichloroethene	0.50	10.0	10.2	10.4	102	104	80-118	2	
2-Butanone (MEK)	10	50.0	50.4	52.3	101	105	76-122	4	
Bromochloromethane	0.50	10.0	10.1	10.2	101	102	82-118	1	
Chloroform	0.50	10.0	9.9	10.1	99	101	73-125	2	
1,1,1-Trichloroethane (TCA)	0.50	10.0	9.9	9.9	99	99	76-124	0	
1,1-Dichloropropene	0.50	10.0	9.4	9.6	94	96	80-119	2	
Carbon Tetrachloride	0.50	10.0	10.2	10.2	102	102	68-135	0	
Benzene	0.50	10.0	10.5	10.6	105	106	81-119	1	
1,2-Dichloroethane (EDC)	0.50	10.0	10.1	10.4	101	104	75-122	3	
Trichloroethene (TCE)	0.50	10.0	10.0	10.1	100	101	79-118	1	
1,2-Dichloropropane	0.50	10.0	9.7	10.0	97	100	82-115	3	
Dibromomethane	0.50	10.0	10.2	10.6	102	106	84-116	4	
Bromodichloromethane	1.0	10.0	10.2	10.3	102	103	81-122	1	
cis-1,3-Dichloropropene	0.50	10.0	10.0	10.4	100	104	78-118	4	
4-Methyl-2-pentanone (MIBK)	10	50.0	53.5	56.6	107	113	81-127	6	
Toluene	0.50	10.0	9.6	9.7	96	97	83-116	1	
trans-1,3-Dichloropropene	0.50	10.0	9.5	9.8	95	98	73-122	3	
1,1,2-Trichloroethane	0.50	10.0	10.0	10.0	100	100	83-120	0	
Tetrachloroethene (PCE)	0.50	10.0	9.9	9.9	99	99	82-118	0	
1,3-Dichloropropane	0.50	10.0	9.8	10.0	98	100	82-119	2	
2-Hexanone	10	50.0	51.9	54.0	104	108	81-130	4	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	10/20/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	M1020W01LCS / M1020W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	10.1	10.2	101	102	79-124	1	
1,2-Dibromoethane (EDB)	1.0	10.0	9.8	10.0	98	100	82-116	2	
Chlorobenzene	0.50	10.0	10.2	10.3	102	103	86-114	1	
1,1,1,2-Tetrachloroethane	0.50	10.0	10.1	10.3	101	103	79-122	2	
Ethylbenzene	0.50	10.0	10.2	10.5	102	105	86-116	3	
m,p-Xylenes	1.0	20.0	20.8	21.0	104	105	86-117	1	
o-Xylene	0.50	10.0	9.9	10.0	99	100	86-119	1	
Xylenes, Total	1.5	30.0	30.7	31.1	102	104	85-117	1	
Styrene	0.50	10.0	10.4	10.6	104	106	84-119	2	
Bromoform	1.0	10.0	9.9	10.1	99	101	71-133	2	
Isopropylbenzene	1.0	10.0	10.2	10.6	102	106	77-117	4	
1,1,2,2-Tetrachloroethane	0.50	10.0	10.5	10.1	105	101	80-117	4	
Bromobenzene	1.0	10.0	10.2	10.1	102	101	84-120	1	
1,2,3-Trichloropropane	5.0	10.0	10.3	10.3	103	103	81-122	0	
n-Propylbenzene	1.0	10.0	10.1	10.0	101	100	87-117	1	
2-Chlorotoluene	1.0	10.0	10.4	10.5	104	105	87-119	1	
1,3,5-Trimethylbenzene	1.0	10.0	10.4	11.2	104	112	83-120	7	
4-Chlorotoluene	1.0	10.0	10.3	10.1	103	101	86-118	2	
tert-Butylbenzene	1.0	10.0	10.9	11.1	109	111	82-122	2	
1,2,4-Trimethylbenzene	1.0	10.0	11.9	11.9	119	119	86-121	0	
sec-Butylbenzene	1.0	10.0	11.3	11.4	113	114	84-128	1	
1,3-Dichlorobenzene	0.50	10.0	10.3	10.2	103	102	85-119	1	
4-Isopropyltoluene	1.0	10.0	10.7	10.9	107	109	84-121	2	
1,4-Dichlorobenzene	0.50	10.0	10.3	10.2	103	102	84-118	1	
n-Butylbenzene	1.0	10.0	9.7	9.9	97	99	81-123	2	
1,2-Dichlorobenzene	0.50	10.0	10.2	10.2	102	102	85-117	0	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	50.0	37.1	38.6	74	77	67-121	4	
1,2,4-Trichlorobenzene	1.0	10.0	9.2	9.6	92	96	69-128	4	
Hexachlorobutadiene	1.0	10.0	10.0	10.1	100	101	71-135	1	
Naphthalene	1.0	10.0	9.4	10.1	94	101	60-131	7	
1,2,3-Trichlorobenzene	1.0	10.0	9.5	10.1	95	101	69-130	6	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601593
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 10/17/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample Lab Control Sample
Lab Code: U1017S01LCS / U1017S01LCSD
Extraction SW5030
Analysis Method: SW8260

DLCS Sample Lab Control Sample Duplicate
Units: ug/Kg (ppb

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	5.0	50.00	57.88	49.21	116	98	35-148	16	
Chloromethane	5.0	50.00	60.28	56.26	120	112	47-143	7	
Vinyl Chloride	5.0	50.00	63.42	60.27	127	120	59-142	5	
Bromomethane	5.0	50.00	58.32	56.05	117	112	42-171	4	
Chloroethane	5.0	50.00	61.29	61.02	122	122	66-142	0	
Trichlorofluoromethane (CFC 11)	5.0	50.00	66.19	62.78	132	126	66-141	5	
1,1,2-Trichlorotrifluoroethane	5.0	50.00	63.87	60.27	128	120	69-134	6	
1,1-Dichloroethene (1,1-DCE)	5.0	50.00	65.38	63.10	131	126	75-133	4	
Acetone	25	250.0	285.8	257.0	114	103	72-135	11	
Carbon Disulfide	5.0	50.00	56.58	54.89	113	110	57-109	3	*
Dichloromethane (Methylene Chloride)	5.0	50.00	60.42	58.69	121	117	72-119	3	*
trans-1,2-Dichloroethene	5.0	50.00	54.46	55.02	109	110	75-123	1	
Methyl tert-Butyl Ether	5.0	50.00	59.02	55.83	118	112	76-134	6	
1,1-Dichloroethane (1,1-DCA)	5.0	50.00	55.79	54.57	112	109	77-122	2	
Vinyl Acetate	5.0	50.00	62.31	58.82	125	118	46-163	6	
2,2-Dichloropropane	5.0	50.00	57.11	55.26	114	110	69-135	3	
cis-1,2-Dichloroethene	5.0	50.00	57.87	57.46	116	115	79-121	1	
1,2-Dichloroethene, Total	5.0	100.0	112.3	112.5	112	112	63-127	0	
2-Butanone (MEK)	25	250.0	292.6	268.0	117	107	79-129	9	
Bromochloromethane	5.0	50.00	56.74	55.64	113	111	81-123	2	
Chloroform	5.0	50.00	55.41	54.58	111	109	77-119	2	
1,1,1-Trichloroethane (TCA)	5.0	50.00	57.07	54.99	114	110	75-127	4	
1,1-Dichloropropene	5.0	50.00	58.38	56.04	117	112	71-124	4	
Carbon Tetrachloride	5.0	50.00	60.83	57.57	122	115	70-131	6	
Benzene	5.0	50.00	55.42	55.12	111	110	79-119	0	
1,2-Dichloroethane (EDC)	5.0	50.00	56.76	56.42	114	113	78-120	1	
Trichloroethene (TCE)	5.0	50.00	55.78	55.36	112	111	79-119	1	
1,2-Dichloropropane	5.0	50.00	54.96	54.24	110	108	78-119	1	
Dibromomethane	5.0	50.00	57.11	55.57	114	111	82-126	3	
Bromodichloromethane	5.0	50.00	56.13	55.24	112	110	77-127	2	
cis-1,3-Dichloropropene	5.0	50.00	56.45	55.88	113	112	77-124	1	
4-Methyl-2-pentanone (MIBK)	25	250.0	290.1	273.4	116	109	84-134	6	
Toluene	5.0	50.00	51.51	51.02	103	102	80-118	1	
trans-1,3-Dichloropropene	5.0	50.00	56.35	56.19	113	112	76-125	0	
1,1,2-Trichloroethane	5.0	50.00	54.93	53.91	110	108	83-125	2	
Tetrachloroethene (PCE)	5.0	50.00	55.60	54.59	111	109	78-124	2	
1,3-Dichloropropane	5.0	50.00	54.99	54.34	110	109	80-123	1	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Soil

Service Request: D0601593
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 10/17/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample Lab Control Sample
Lab Code: U1017S01LCS / U1017S01LCSD
Extraction SW5030
Analysis Method: SW8260

DLCS Sample Lab Control Sample Duplicate
Units: ug/Kg (ppb

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
2-Hexanone	25	250.0	285.7	269.7	114	108	80-145	6	
Dibromochloromethane	5.0	50.00	57.19	57.02	114	114	75-131	0	
1,2-Dibromoethane (EDB)	5.0	50.00	56.23	55.18	112	110	83-124	2	
Chlorobenzene	5.0	50.00	52.10	52.25	104	104	80-123	0	
1,1,1,2-Tetrachloroethane	5.0	50.00	55.28	55.62	110	111	76-129	1	
Ethylbenzene	5.0	50.00	52.00	52.07	104	104	81-120	0	
m,p-Xylenes	5.0	100.0	103.4	103.1	103	103	79-122	0	
o-Xylene	5.0	50.00	52.48	52.47	105	105	83-124	0	
Xylenes, Total	5.0	150.0	155.9	155.6	104	104	79-125	0	
Styrene	5.0	50.00	52.31	52.25	105	104	79-123	0	
Bromoform	5.0	50.00	60.67	60.74	121	121	73-144	0	
Isopropylbenzene	5.0	50.00	52.84	52.64	106	105	74-113	0	
1,1,2,2-Tetrachloroethane	5.0	50.00	53.08	54.02	106	108	74-134	2	
Bromobenzene	5.0	50.00	50.74	51.40	101	103	81-123	1	
1,2,3-Trichloropropane	5.0	50.00	53.64	53.40	107	107	79-129	0	
n-Propylbenzene	5.0	50.00	53.61	53.63	107	107	76-125	0	
2-Chlorotoluene	5.0	50.00	51.55	51.05	103	102	81-125	1	
1,3,5-Trimethylbenzene	5.0	50.00	51.99	51.78	104	104	79-122	0	
4-Chlorotoluene	5.0	50.00	50.86	51.06	102	102	79-122	0	
tert-Butylbenzene	5.0	50.00	49.42	50.32	99	101	82-126	2	
1,2,4-Trimethylbenzene	5.0	50.00	51.17	51.19	102	102	82-124	0	
sec-Butylbenzene	5.0	50.00	53.62	53.80	107	108	85-131	0	
1,3-Dichlorobenzene	5.0	50.00	50.80	51.02	102	102	81-124	0	
4-Isopropyltoluene	5.0	50.00	51.11	51.18	102	102	79-124	0	
1,4-Dichlorobenzene	5.0	50.00	51.79	51.23	104	102	81-124	1	
n-Butylbenzene	5.0	50.00	50.39	49.77	101	100	75-126	1	
1,2-Dichlorobenzene	5.0	50.00	51.52	51.78	103	104	81-123	0	
1,2-Dibromo-3-chloropropane (DBCP)	25	200.0	222.1	209.6	111	105	76-139	6	
1,2,4-Trichlorobenzene	5.0	50.00	54.12	52.47	108	105	67-132	3	
Hexachlorobutadiene	5.0	50.00	52.57	52.49	105	105	73-133	0	
Naphthalene	5.0	50.00	56.56	54.71	113	109	76-140	3	
1,2,3-Trichlorobenzene	5.0	50.00	52.72	51.58	105	103	74-129	2	

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601593

Cover Page - Organic Analysis Data Package
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name	Lab Code	Date Collected	Date Received
T-50-GW11	D0601593-002	10/12/2006	10/14/2006
T-50-GW26	D0601593-003	10/12/2006	10/14/2006
T-50-GW41	D0601593-004	10/12/2006	10/14/2006
T-51-GW11	D0601593-006	10/12/2006	10/14/2006
T-51-GW26	D0601593-008	10/12/2006	10/14/2006
T-51-GW38	D0601593-009	10/12/2006	10/14/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang Name: WIDA ANG

Date: 10/23/06 Title: Organic Manager

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-50-GW11
Lab Code: D0601593-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	10/17/06	10/19/06	DWG0600894	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	10/17/06	10/19/06	DWG0600894	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	10/17/06	10/19/06	DWG0600894	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	10/17/06	10/19/06	DWG0600894	
1,4-Dioxane	**2.5**		2.0	0.41	1	10/17/06	10/19/06	DWG0600894	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	10/17/06	10/19/06	DWG0600894	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	10/17/06	10/19/06	DWG0600894	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	10/17/06	10/19/06	DWG0600894	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	10/17/06	10/19/06	DWG0600894	
2,4-Dinitrophenol	ND	U	48	10	1	10/17/06	10/19/06	DWG0600894	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/17/06	10/19/06	DWG0600894	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	10/17/06	10/19/06	DWG0600894	
2-Chloronaphthalene	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
2-Chlorophenol	ND	U	4.8	0.24	1	10/17/06	10/19/06	DWG0600894	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/17/06	10/19/06	DWG0600894	
2-Methylnaphthalene	ND	U	4.8	0.18	1	10/17/06	10/19/06	DWG0600894	
2-Methylphenol	ND	U	4.8	0.32	1	10/17/06	10/19/06	DWG0600894	
2-Nitroaniline	ND	U	20	0.27	1	10/17/06	10/19/06	DWG0600894	
2-Nitrophenol	ND	U	4.8	0.26	1	10/17/06	10/19/06	DWG0600894	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/17/06	10/19/06	DWG0600894	
3-Nitroaniline	ND	U	20	0.29	1	10/17/06	10/19/06	DWG0600894	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	10/17/06	10/19/06	DWG0600894	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	10/17/06	10/19/06	DWG0600894	
4-Chloroaniline	ND	U	4.8	0.36	1	10/17/06	10/19/06	DWG0600894	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
4-Methylphenol	ND	U	4.8	0.28	1	10/17/06	10/19/06	DWG0600894	
4-Nitroaniline	ND	U	20	0.36	1	10/17/06	10/19/06	DWG0600894	
4-Nitrophenol	ND	U	48	20	1	10/17/06	10/19/06	DWG0600894	
Acenaphthene	ND	U	4.8	0.15	1	10/17/06	10/19/06	DWG0600894	
Acenaphthylene	ND	U	4.8	0.23	1	10/17/06	10/19/06	DWG0600894	
Aniline	ND	U	4.8	0.34	1	10/17/06	10/19/06	DWG0600894	
Anthracene	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
Benz(a)anthracene	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
Benzo(a)pyrene	ND	U	4.8	0.54	1	10/17/06	10/19/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-50-GW11
Lab Code: D0601593-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	10/17/06	10/19/06	DWG0600894	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	10/17/06	10/19/06	DWG0600894	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	10/17/06	10/19/06	DWG0600894	
Benzoic acid	ND	U	48	20	1	10/17/06	10/19/06	DWG0600894	
Benzyl alcohol	ND	U	9.6	0.22	1	10/17/06	10/19/06	DWG0600894	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	10/17/06	10/19/06	DWG0600894	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	10/17/06	10/19/06	DWG0600894	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	10/17/06	10/19/06	DWG0600894	
Bis(2-ethylhexyl) Phthalate	**0.94**	J	4.8	0.30	1	10/17/06	10/19/06	DWG0600894	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	10/17/06	10/19/06	DWG0600894	
Chrysene	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
Di-n-butyl Phthalate	**0.28**	J	4.8	0.25	1	10/17/06	10/19/06	DWG0600894	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	10/17/06	10/19/06	DWG0600894	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	10/17/06	10/19/06	DWG0600894	
Dibenzofuran	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
Diethyl Phthalate	ND	U	4.8	0.28	1	10/17/06	10/19/06	DWG0600894	
Dimethyl Phthalate	ND	U	4.8	0.26	1	10/17/06	10/19/06	DWG0600894	
Fluoranthene	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
Fluorene	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/17/06	10/19/06	DWG0600894	
Hexachlorobutadiene	ND	U	9.6	0.22	1	10/17/06	10/19/06	DWG0600894	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	10/17/06	10/19/06	DWG0600894	
Hexachloroethane	ND	U	9.6	2.5	1	10/17/06	10/19/06	DWG0600894	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	10/17/06	10/19/06	DWG0600894	
Isophorone	ND	U	4.8	0.30	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	10/17/06	10/19/06	DWG0600894	
Naphthalene	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
Nitrobenzene	ND	U	4.8	0.26	1	10/17/06	10/19/06	DWG0600894	
Pentachlorophenol	ND	U	29	0.63	1	10/17/06	10/19/06	DWG0600894	
Phenanthrene	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
Phenol	ND	U	4.8	0.11	1	10/17/06	10/19/06	DWG0600894	
Pyrene	ND	U	4.8	0.33	1	10/17/06	10/19/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-50-GW11
Lab Code: D0601593-002

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	10/17/06	10/19/06	DWG0600894	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	78	31-112	10/19/06	Acceptable
2-Fluorobiphenyl	81	47-110	10/19/06	Acceptable
2-Fluorophenol	69	23-115	10/19/06	Acceptable
Nitrobenzene-d5	92	42-122	10/19/06	Acceptable
Phenol-d5	82	23-121	10/19/06	Acceptable
Terphenyl-d14	46	37-130	10/19/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-50-GW26
Lab Code: D0601593-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	10/17/06	10/20/06	DWG0600894	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	10/17/06	10/20/06	DWG0600894	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	10/17/06	10/20/06	DWG0600894	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	10/17/06	10/20/06	DWG0600894	
1,4-Dioxane	ND	U	2.0	0.41	1	10/17/06	10/20/06	DWG0600894	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	10/17/06	10/20/06	DWG0600894	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	10/17/06	10/20/06	DWG0600894	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	10/17/06	10/20/06	DWG0600894	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	10/17/06	10/20/06	DWG0600894	
2,4-Dinitrophenol	ND	U	48	10	1	10/17/06	10/20/06	DWG0600894	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/17/06	10/20/06	DWG0600894	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	10/17/06	10/20/06	DWG0600894	
2-Chloronaphthalene	ND	U	4.8	0.22	1	10/17/06	10/20/06	DWG0600894	
2-Chlorophenol	ND	U	4.8	0.24	1	10/17/06	10/20/06	DWG0600894	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/17/06	10/20/06	DWG0600894	
2-Methylnaphthalene	ND	U	4.8	0.18	1	10/17/06	10/20/06	DWG0600894	
2-Methylphenol	ND	U	4.8	0.32	1	10/17/06	10/20/06	DWG0600894	
2-Nitroaniline	ND	U	20	0.27	1	10/17/06	10/20/06	DWG0600894	
2-Nitrophenol	ND	U	4.8	0.26	1	10/17/06	10/20/06	DWG0600894	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/17/06	10/20/06	DWG0600894	
3-Nitroaniline	ND	U	20	0.29	1	10/17/06	10/20/06	DWG0600894	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	10/17/06	10/20/06	DWG0600894	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	10/17/06	10/20/06	DWG0600894	
4-Chloroaniline	ND	U	4.8	0.36	1	10/17/06	10/20/06	DWG0600894	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	10/17/06	10/20/06	DWG0600894	
4-Methylphenol	ND	U	4.8	0.28	1	10/17/06	10/20/06	DWG0600894	
4-Nitroaniline	ND	U	20	0.36	1	10/17/06	10/20/06	DWG0600894	
4-Nitrophenol	ND	U	48	20	1	10/17/06	10/20/06	DWG0600894	
Acenaphthene	ND	U	4.8	0.15	1	10/17/06	10/20/06	DWG0600894	
Acenaphthylene	ND	U	4.8	0.23	1	10/17/06	10/20/06	DWG0600894	
Aniline	ND	U	4.8	0.34	1	10/17/06	10/20/06	DWG0600894	
Anthracene	ND	U	4.8	0.21	1	10/17/06	10/20/06	DWG0600894	
Benz(a)anthracene	ND	U	4.8	0.21	1	10/17/06	10/20/06	DWG0600894	
Benzo(a)pyrene	ND	U	4.8	0.54	1	10/17/06	10/20/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-50-GW26
Lab Code: D0601593-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	10/17/06	10/20/06	DWG0600894	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	10/17/06	10/20/06	DWG0600894	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	10/17/06	10/20/06	DWG0600894	
Benzoic acid	ND	U	48	20	1	10/17/06	10/20/06	DWG0600894	
Benzyl alcohol	ND	U	9.6	0.22	1	10/17/06	10/20/06	DWG0600894	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	10/17/06	10/20/06	DWG0600894	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	10/17/06	10/20/06	DWG0600894	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	10/17/06	10/20/06	DWG0600894	
Bis(2-ethylhexyl) Phthalate	ND	U	4.8	0.30	1	10/17/06	10/20/06	DWG0600894	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	10/17/06	10/20/06	DWG0600894	
Chrysene	ND	U	4.8	0.22	1	10/17/06	10/20/06	DWG0600894	
Di-n-butyl Phthalate	**0.26**	J	4.8	0.25	1	10/17/06	10/20/06	DWG0600894	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	10/17/06	10/20/06	DWG0600894	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	10/17/06	10/20/06	DWG0600894	
Dibenzofuran	ND	U	4.8	0.22	1	10/17/06	10/20/06	DWG0600894	
Diethyl Phthalate	ND	U	4.8	0.28	1	10/17/06	10/20/06	DWG0600894	
Dimethyl Phthalate	ND	U	4.8	0.26	1	10/17/06	10/20/06	DWG0600894	
Fluoranthene	ND	U	4.8	0.21	1	10/17/06	10/20/06	DWG0600894	
Fluorene	ND	U	4.8	0.22	1	10/17/06	10/20/06	DWG0600894	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/17/06	10/20/06	DWG0600894	
Hexachlorobutadiene	ND	U	9.6	0.22	1	10/17/06	10/20/06	DWG0600894	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	10/17/06	10/20/06	DWG0600894	
Hexachloroethane	ND	U	9.6	2.5	1	10/17/06	10/20/06	DWG0600894	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	10/17/06	10/20/06	DWG0600894	
Isophorone	ND	U	4.8	0.30	1	10/17/06	10/20/06	DWG0600894	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	10/17/06	10/20/06	DWG0600894	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	10/17/06	10/20/06	DWG0600894	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	10/17/06	10/20/06	DWG0600894	
Naphthalene	ND	U	4.8	0.21	1	10/17/06	10/20/06	DWG0600894	
Nitrobenzene	ND	U	4.8	0.26	1	10/17/06	10/20/06	DWG0600894	
Pentachlorophenol	ND	U	29	0.63	1	10/17/06	10/20/06	DWG0600894	
Phenanthrene	ND	U	4.8	0.22	1	10/17/06	10/20/06	DWG0600894	
Phenol	ND	U	4.8	0.11	1	10/17/06	10/20/06	DWG0600894	
Pyrene	ND	U	4.8	0.33	1	10/17/06	10/20/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-50-GW26
Lab Code: D0601593-003

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	10/17/06	10/20/06	DWG0600894	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	83	31-112	10/20/06	Acceptable
2-Fluorobiphenyl	85	47-110	10/20/06	Acceptable
2-Fluorophenol	78	23-115	10/20/06	Acceptable
Nitrobenzene-d5	93	42-122	10/20/06	Acceptable
Phenol-d5	83	23-121	10/20/06	Acceptable
Terphenyl-d14	68	37-130	10/20/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-50-GW41
Lab Code: D0601593-004

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.3	0.22	1	10/17/06	10/19/06	DWG0600894	
1,2-Dichlorobenzene	ND	U	5.3	0.18	1	10/17/06	10/19/06	DWG0600894	
1,3-Dichlorobenzene	ND	U	5.3	0.22	1	10/17/06	10/19/06	DWG0600894	
1,4-Dichlorobenzene	ND	U	5.3	0.26	1	10/17/06	10/19/06	DWG0600894	
1,4-Dioxane	ND	U	2.2	0.44	1	10/17/06	10/19/06	DWG0600894	
2,4,5-Trichlorophenol	ND	U	5.3	0.30	1	10/17/06	10/19/06	DWG0600894	
2,4,6-Trichlorophenol	ND	U	5.3	0.29	1	10/17/06	10/19/06	DWG0600894	
2,4-Dichlorophenol	ND	U	5.3	0.25	1	10/17/06	10/19/06	DWG0600894	
2,4-Dimethylphenol	ND	U	11	0.88	1	10/17/06	10/19/06	DWG0600894	
2,4-Dinitrophenol	ND	U	53	11	1	10/17/06	10/19/06	DWG0600894	
2,4-Dinitrotoluene	ND	U	2.2	0.32	1	10/17/06	10/19/06	DWG0600894	
2,6-Dinitrotoluene	ND	U	5.3	0.32	1	10/17/06	10/19/06	DWG0600894	
2-Chloronaphthalene	ND	U	5.3	0.24	1	10/17/06	10/19/06	DWG0600894	
2-Chlorophenol	ND	U	5.3	0.26	1	10/17/06	10/19/06	DWG0600894	
2-Methyl-4,6-dinitrophenol	ND	U	22	0.22	1	10/17/06	10/19/06	DWG0600894	
2-Methylnaphthalene	ND	U	5.3	0.19	1	10/17/06	10/19/06	DWG0600894	
2-Methylphenol	ND	U	5.3	0.34	1	10/17/06	10/19/06	DWG0600894	
2-Nitroaniline	ND	U	22	0.29	1	10/17/06	10/19/06	DWG0600894	
2-Nitrophenol	ND	U	5.3	0.28	1	10/17/06	10/19/06	DWG0600894	
3,3'-Dichlorobenzidine	ND	U	22	0.89	1	10/17/06	10/19/06	DWG0600894	
3-Nitroaniline	ND	U	22	0.31	1	10/17/06	10/19/06	DWG0600894	
4-Bromophenyl Phenyl Ether	ND	U	5.3	0.19	1	10/17/06	10/19/06	DWG0600894	
4-Chloro-3-methylphenol	ND	U	5.3	0.34	1	10/17/06	10/19/06	DWG0600894	
4-Chloroaniline	ND	U	5.3	0.38	1	10/17/06	10/19/06	DWG0600894	
4-Chlorophenyl Phenyl Ether	ND	U	5.3	0.23	1	10/17/06	10/19/06	DWG0600894	
4-Methylphenol	ND	U	5.3	0.30	1	10/17/06	10/19/06	DWG0600894	
4-Nitroaniline	ND	U	22	0.38	1	10/17/06	10/19/06	DWG0600894	
4-Nitrophenol	ND	U	53	22	1	10/17/06	10/19/06	DWG0600894	
Acenaphthene	ND	U	5.3	0.16	1	10/17/06	10/19/06	DWG0600894	
Acenaphthylene	ND	U	5.3	0.25	1	10/17/06	10/19/06	DWG0600894	
Aniline	ND	U	5.3	0.36	1	10/17/06	10/19/06	DWG0600894	
Anthracene	ND	U	5.3	0.23	1	10/17/06	10/19/06	DWG0600894	
Benz(a)anthracene	ND	U	5.3	0.23	1	10/17/06	10/19/06	DWG0600894	
Benzo(a)pyrene	ND	U	5.3	0.57	1	10/17/06	10/19/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-50-GW41
Lab Code: D0601593-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.3	0.45	1	10/17/06	10/19/06	DWG0600894	
Benzo(g,h,i)perylene	ND	U	5.3	0.78	1	10/17/06	10/19/06	DWG0600894	
Benzo(k)fluoranthene	ND	U	5.3	0.34	1	10/17/06	10/19/06	DWG0600894	
Benzoic acid	ND	U	53	22	1	10/17/06	10/19/06	DWG0600894	
Benzyl alcohol	ND	U	11	0.24	1	10/17/06	10/19/06	DWG0600894	
bis(2-Chloroethoxy)methane	ND	U	5.3	0.34	1	10/17/06	10/19/06	DWG0600894	
Bis(2-chloroethyl) Ether	ND	U	5.3	0.26	1	10/17/06	10/19/06	DWG0600894	
Bis(2-Chloroisopropyl)ether	ND	U	5.3	0.26	1	10/17/06	10/19/06	DWG0600894	
Bis(2-ethylhexyl) Phthalate	**48**		5.3	0.32	1	10/17/06	10/19/06	DWG0600894	
Butyl Benzyl Phthalate	ND	U	5.3	0.51	1	10/17/06	10/19/06	DWG0600894	
Chrysene	ND	U	5.3	0.24	1	10/17/06	10/19/06	DWG0600894	
Di-n-butyl Phthalate	**0.88**	J	5.3	0.27	1	10/17/06	10/19/06	DWG0600894	
Di-n-octyl Phthalate	ND	U	5.3	0.35	1	10/17/06	10/19/06	DWG0600894	
Dibenz(a,h)anthracene	ND	U	5.3	0.66	1	10/17/06	10/19/06	DWG0600894	
Dibenzofuran	ND	U	5.3	0.24	1	10/17/06	10/19/06	DWG0600894	
Diethyl Phthalate	ND	U	5.3	0.30	1	10/17/06	10/19/06	DWG0600894	
Dimethyl Phthalate	ND	U	5.3	0.28	1	10/17/06	10/19/06	DWG0600894	
Fluoranthene	ND	U	5.3	0.23	1	10/17/06	10/19/06	DWG0600894	
Fluorene	ND	U	5.3	0.24	1	10/17/06	10/19/06	DWG0600894	
Hexachlorobenzene	ND	U	2.2	0.23	1	10/17/06	10/19/06	DWG0600894	
Hexachlorobutadiene	ND	U	11	0.24	1	10/17/06	10/19/06	DWG0600894	
Hexachlorocyclopentadiene	ND	U	11	1.9	1	10/17/06	10/19/06	DWG0600894	
Hexachloroethane	ND	U	11	2.7	1	10/17/06	10/19/06	DWG0600894	
Indeno(1,2,3-cd)pyrene	ND	U	5.3	0.69	1	10/17/06	10/19/06	DWG0600894	
Isophorone	ND	U	5.3	0.32	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodi-n-propylamine	ND	U	5.3	0.30	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodimethylamine	ND	U	5.3	0.51	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodiphenylamine	ND	U	5.3	0.25	1	10/17/06	10/19/06	DWG0600894	
Naphthalene	ND	U	5.3	0.23	1	10/17/06	10/19/06	DWG0600894	
Nitrobenzene	ND	U	5.3	0.28	1	10/17/06	10/19/06	DWG0600894	
Pentachlorophenol	ND	U	32	0.67	1	10/17/06	10/19/06	DWG0600894	
Phenanthrene	ND	U	5.3	0.24	1	10/17/06	10/19/06	DWG0600894	
Phenol	ND	U	5.3	0.12	1	10/17/06	10/19/06	DWG0600894	
Pyrene	ND	U	5.3	0.35	1	10/17/06	10/19/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-50-GW41
Lab Code: D0601593-004

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	11	0.35	1	10/17/06	10/19/06	DWG0600894	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	88	31-112	10/19/06	Acceptable
2-Fluorobiphenyl	86	47-110	10/19/06	Acceptable
2-Fluorophenol	81	23-115	10/19/06	Acceptable
Nitrobenzene-d5	94	42-122	10/19/06	Acceptable
Phenol-d5	88	23-121	10/19/06	Acceptable
Terphenyl-d14	50	37-130	10/19/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-51-GW11
Lab Code: D0601593-006

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	10/17/06	10/19/06	DWG0600894	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	10/17/06	10/19/06	DWG0600894	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	10/17/06	10/19/06	DWG0600894	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	10/17/06	10/19/06	DWG0600894	
1,4-Dioxane	**1300**	D	96	21	50	10/17/06	10/20/06	DWG0600894	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	10/17/06	10/19/06	DWG0600894	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	10/17/06	10/19/06	DWG0600894	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	10/17/06	10/19/06	DWG0600894	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	10/17/06	10/19/06	DWG0600894	
2,4-Dinitrophenol	ND	U	48	10	1	10/17/06	10/19/06	DWG0600894	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/17/06	10/19/06	DWG0600894	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	10/17/06	10/19/06	DWG0600894	
2-Chloronaphthalene	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
2-Chlorophenol	ND	U	4.8	0.24	1	10/17/06	10/19/06	DWG0600894	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/17/06	10/19/06	DWG0600894	
2-Methylnaphthalene	ND	U	4.8	0.18	1	10/17/06	10/19/06	DWG0600894	
2-Methylphenol	ND	U	4.8	0.32	1	10/17/06	10/19/06	DWG0600894	
2-Nitroaniline	ND	U	20	0.27	1	10/17/06	10/19/06	DWG0600894	
2-Nitrophenol	ND	U	4.8	0.26	1	10/17/06	10/19/06	DWG0600894	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/17/06	10/19/06	DWG0600894	
3-Nitroaniline	ND	U	20	0.29	1	10/17/06	10/19/06	DWG0600894	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	10/17/06	10/19/06	DWG0600894	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	10/17/06	10/19/06	DWG0600894	
4-Chloroaniline	ND	U	4.8	0.36	1	10/17/06	10/19/06	DWG0600894	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
4-Methylphenol	ND	U	4.8	0.28	1	10/17/06	10/19/06	DWG0600894	
4-Nitroaniline	ND	U	20	0.36	1	10/17/06	10/19/06	DWG0600894	
4-Nitrophenol	ND	U	48	20	1	10/17/06	10/19/06	DWG0600894	
Acenaphthene	ND	U	4.8	0.15	1	10/17/06	10/19/06	DWG0600894	
Acenaphthylene	ND	U	4.8	0.23	1	10/17/06	10/19/06	DWG0600894	
Aniline	ND	U	4.8	0.34	1	10/17/06	10/19/06	DWG0600894	
Anthracene	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
Benz(a)anthracene	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
Benzo(a)pyrene	ND	U	4.8	0.54	1	10/17/06	10/19/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-51-GW11
Lab Code: D0601593-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	10/17/06	10/19/06	DWG0600894	
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	10/17/06	10/19/06	DWG0600894	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	10/17/06	10/19/06	DWG0600894	
Benzoic acid	ND	U	48	20	1	10/17/06	10/19/06	DWG0600894	
Benzyl alcohol	ND	U	9.6	0.22	1	10/17/06	10/19/06	DWG0600894	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	10/17/06	10/19/06	DWG0600894	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	10/17/06	10/19/06	DWG0600894	
Bis(2-Chloroisopropyl)ether	ND	U	4.8	0.24	1	10/17/06	10/19/06	DWG0600894	
Bis(2-ethylhexyl) Phthalate	**3.0**	**J**	4.8	0.30	1	10/17/06	10/19/06	DWG0600894	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	10/17/06	10/19/06	DWG0600894	
Chrysene	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
Di-n-butyl Phthalate	ND	U	4.8	0.25	1	10/17/06	10/19/06	DWG0600894	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	10/17/06	10/19/06	DWG0600894	
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	10/17/06	10/19/06	DWG0600894	
Dibenzofuran	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
Diethyl Phthalate	ND	U	4.8	0.28	1	10/17/06	10/19/06	DWG0600894	
Dimethyl Phthalate	ND	U	4.8	0.26	1	10/17/06	10/19/06	DWG0600894	
Fluoranthene	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
Fluorene	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/17/06	10/19/06	DWG0600894	
Hexachlorobutadiene	ND	U	9.6	0.22	1	10/17/06	10/19/06	DWG0600894	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	10/17/06	10/19/06	DWG0600894	
Hexachloroethane	ND	U	9.6	2.5	1	10/17/06	10/19/06	DWG0600894	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	10/17/06	10/19/06	DWG0600894	
Isophorone	ND	U	4.8	0.30	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	10/17/06	10/19/06	DWG0600894	
Naphthalene	ND	U	4.8	0.21	1	10/17/06	10/19/06	DWG0600894	
Nitrobenzene	ND	U	4.8	0.26	1	10/17/06	10/19/06	DWG0600894	
Pentachlorophenol	ND	U	29	0.63	1	10/17/06	10/19/06	DWG0600894	
Phenanthrene	ND	U	4.8	0.22	1	10/17/06	10/19/06	DWG0600894	
Phenol	ND	U	4.8	0.11	1	10/17/06	10/19/06	DWG0600894	
Pyrene	ND	U	4.8	0.33	1	10/17/06	10/19/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-51-GW11
Lab Code: D0601593-006

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	10/17/06	10/19/06	DWG0600894	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	90	31-112	10/19/06	Acceptable
2-Fluorobiphenyl	95	47-110	10/19/06	Acceptable
2-Fluorophenol	88	23-115	10/19/06	Acceptable
Nitrobenzene-d5	105	42-122	10/19/06	Acceptable
Phenol-d5	95	23-121	10/19/06	Acceptable
Terphenyl-d14	57	37-130	10/19/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-51-GW26
Lab Code: D0601593-008

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	10/17/06	10/20/06	DWG0600894	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	10/17/06	10/20/06	DWG0600894	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	10/17/06	10/20/06	DWG0600894	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	10/17/06	10/20/06	DWG0600894	
1,4-Dioxane	ND	U	2.0	0.41	1	10/17/06	10/20/06	DWG0600894	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	10/17/06	10/20/06	DWG0600894	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	10/17/06	10/20/06	DWG0600894	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	10/17/06	10/20/06	DWG0600894	
2,4-Dimethylphenol	ND	U	9.9	0.83	1	10/17/06	10/20/06	DWG0600894	
2,4-Dinitrophenol	ND	U	50	10	1	10/17/06	10/20/06	DWG0600894	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/17/06	10/20/06	DWG0600894	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	10/17/06	10/20/06	DWG0600894	
2-Chloronaphthalene	ND	U	5.0	0.22	1	10/17/06	10/20/06	DWG0600894	
2-Chlorophenol	ND	U	5.0	0.24	1	10/17/06	10/20/06	DWG0600894	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/17/06	10/20/06	DWG0600894	
2-Methylnaphthalene	ND	U	5.0	0.18	1	10/17/06	10/20/06	DWG0600894	
2-Methylphenol	ND	U	5.0	0.32	1	10/17/06	10/20/06	DWG0600894	
2-Nitroaniline	ND	U	20	0.27	1	10/17/06	10/20/06	DWG0600894	
2-Nitrophenol	ND	U	5.0	0.26	1	10/17/06	10/20/06	DWG0600894	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/17/06	10/20/06	DWG0600894	
3-Nitroaniline	ND	U	20	0.29	1	10/17/06	10/20/06	DWG0600894	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	10/17/06	10/20/06	DWG0600894	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	10/17/06	10/20/06	DWG0600894	
4-Chloroaniline	ND	U	5.0	0.36	1	10/17/06	10/20/06	DWG0600894	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	10/17/06	10/20/06	DWG0600894	
4-Methylphenol	ND	U	5.0	0.28	1	10/17/06	10/20/06	DWG0600894	
4-Nitroaniline	ND	U	20	0.36	1	10/17/06	10/20/06	DWG0600894	
4-Nitrophenol	ND	U	50	20	1	10/17/06	10/20/06	DWG0600894	
Acenaphthene	ND	U	5.0	0.15	1	10/17/06	10/20/06	DWG0600894	
Acenaphthylene	ND	U	5.0	0.23	1	10/17/06	10/20/06	DWG0600894	
Aniline	ND	U	5.0	0.34	1	10/17/06	10/20/06	DWG0600894	
Anthracene	ND	U	5.0	0.21	1	10/17/06	10/20/06	DWG0600894	
Benz(a)anthracene	ND	U	5.0	0.21	1	10/17/06	10/20/06	DWG0600894	
Benzo(a)pyrene	ND	U	5.0	0.54	1	10/17/06	10/20/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-51-GW26
Lab Code: D0601593-008

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	10/17/06	10/20/06	DWG0600894	
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	10/17/06	10/20/06	DWG0600894	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	10/17/06	10/20/06	DWG0600894	
Benzoic acid	ND	U	50	20	1	10/17/06	10/20/06	DWG0600894	
Benzyl alcohol	**0.25**	J	9.9	0.22	1	10/17/06	10/20/06	DWG0600894	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	10/17/06	10/20/06	DWG0600894	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	10/17/06	10/20/06	DWG0600894	
Bis(2-Chloroisopropyl)ether	ND	U	5.0	0.24	1	10/17/06	10/20/06	DWG0600894	
Bis(2-ethylhexyl) Phthalate	**1.2**	J	5.0	0.30	1	10/17/06	10/20/06	DWG0600894	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	10/17/06	10/20/06	DWG0600894	
Chrysene	ND	U	5.0	0.22	1	10/17/06	10/20/06	DWG0600894	
Di-n-butyl Phthalate	**0.26**	J	5.0	0.25	1	10/17/06	10/20/06	DWG0600894	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	10/17/06	10/20/06	DWG0600894	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	10/17/06	10/20/06	DWG0600894	
Dibenzofuran	ND	U	5.0	0.22	1	10/17/06	10/20/06	DWG0600894	
Diethyl Phthalate	ND	U	5.0	0.28	1	10/17/06	10/20/06	DWG0600894	
Dimethyl Phthalate	ND	U	5.0	0.26	1	10/17/06	10/20/06	DWG0600894	
Fluoranthene	ND	U	5.0	0.21	1	10/17/06	10/20/06	DWG0600894	
Fluorene	ND	U	5.0	0.22	1	10/17/06	10/20/06	DWG0600894	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/17/06	10/20/06	DWG0600894	
Hexachlorobutadiene	ND	U	9.9	0.22	1	10/17/06	10/20/06	DWG0600894	
Hexachlorocyclopentadiene	ND	U	9.9	1.8	1	10/17/06	10/20/06	DWG0600894	
Hexachloroethane	ND	U	9.9	2.5	1	10/17/06	10/20/06	DWG0600894	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	10/17/06	10/20/06	DWG0600894	
Isophorone	ND	U	5.0	0.30	1	10/17/06	10/20/06	DWG0600894	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	10/17/06	10/20/06	DWG0600894	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	10/17/06	10/20/06	DWG0600894	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	10/17/06	10/20/06	DWG0600894	
Naphthalene	ND	U	5.0	0.21	1	10/17/06	10/20/06	DWG0600894	
Nitrobenzene	ND	U	5.0	0.26	1	10/17/06	10/20/06	DWG0600894	
Pentachlorophenol	ND	U	30	0.63	1	10/17/06	10/20/06	DWG0600894	
Phenanthrene	ND	U	5.0	0.22	1	10/17/06	10/20/06	DWG0600894	
Phenol	ND	U	5.0	0.11	1	10/17/06	10/20/06	DWG0600894	
Pyrene	ND	U	5.0	0.33	1	10/17/06	10/20/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-51-GW26
Lab Code: D0601593-008

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.9	0.33	1	10/17/06	10/20/06	DWG0600894	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	85	31-112	10/20/06	Acceptable
2-Fluorobiphenyl	85	47-110	10/20/06	Acceptable
2-Fluorophenol	75	23-115	10/20/06	Acceptable
Nitrobenzene-d5	92	42-122	10/20/06	Acceptable
Phenol-d5	82	23-121	10/20/06	Acceptable
Terphenyl-d14	67	37-130	10/20/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-51-GW38
Lab Code: D0601593-009

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	7.2	0.29	1	10/17/06	10/20/06	DWG0600894	
1,2-Dichlorobenzene	ND	U	7.2	0.25	1	10/17/06	10/20/06	DWG0600894	
1,3-Dichlorobenzene	ND	U	7.2	0.29	1	10/17/06	10/20/06	DWG0600894	
1,4-Dichlorobenzene	ND	U	7.2	0.35	1	10/17/06	10/20/06	DWG0600894	
1,4-Dioxane	ND	U	2.9	0.59	1	10/17/06	10/20/06	DWG0600894	
2,4,5-Trichlorophenol	ND	U	7.2	0.40	1	10/17/06	10/20/06	DWG0600894	
2,4,6-Trichlorophenol	ND	U	7.2	0.39	1	10/17/06	10/20/06	DWG0600894	
2,4-Dichlorophenol	ND	U	7.2	0.33	1	10/17/06	10/20/06	DWG0600894	
2,4-Dimethylphenol	ND	U	15	1.2	1	10/17/06	10/20/06	DWG0600894	
2,4-Dinitrophenol	ND	U	72	15	1	10/17/06	10/20/06	DWG0600894	
2,4-Dinitrotoluene	ND	U	2.9	0.43	1	10/17/06	10/20/06	DWG0600894	
2,6-Dinitrotoluene	ND	U	7.2	0.43	1	10/17/06	10/20/06	DWG0600894	
2-Chloronaphthalene	ND	U	7.2	0.32	1	10/17/06	10/20/06	DWG0600894	
2-Chlorophenol	ND	U	7.2	0.35	1	10/17/06	10/20/06	DWG0600894	
2-Methyl-4,6-dinitrophenol	ND	U	29	0.29	1	10/17/06	10/20/06	DWG0600894	
2-Methylnaphthalene	ND	U	7.2	0.26	1	10/17/06	10/20/06	DWG0600894	
2-Methylphenol	ND	U	7.2	0.46	1	10/17/06	10/20/06	DWG0600894	
2-Nitroaniline	ND	U	29	0.39	1	10/17/06	10/20/06	DWG0600894	
2-Nitrophenol	ND	U	7.2	0.38	1	10/17/06	10/20/06	DWG0600894	
3,3'-Dichlorobenzidine	ND	U	29	1.2	1	10/17/06	10/20/06	DWG0600894	
3-Nitroaniline	ND	U	29	0.42	1	10/17/06	10/20/06	DWG0600894	
4-Bromophenyl Phenyl Ether	ND	U	7.2	0.26	1	10/17/06	10/20/06	DWG0600894	
4-Chloro-3-methylphenol	ND	U	7.2	0.46	1	10/17/06	10/20/06	DWG0600894	
4-Chloroaniline	ND	U	7.2	0.52	1	10/17/06	10/20/06	DWG0600894	
4-Chlorophenyl Phenyl Ether	ND	U	7.2	0.30	1	10/17/06	10/20/06	DWG0600894	
4-Methylphenol	ND	U	7.2	0.40	1	10/17/06	10/20/06	DWG0600894	
4-Nitroaniline	ND	U	29	0.52	1	10/17/06	10/20/06	DWG0600894	
4-Nitrophenol	ND	U	72	29	1	10/17/06	10/20/06	DWG0600894	
Acenaphthene	ND	U	7.2	0.22	1	10/17/06	10/20/06	DWG0600894	
Acenaphthylene	ND	U	7.2	0.33	1	10/17/06	10/20/06	DWG0600894	
Aniline	ND	U	7.2	0.49	1	10/17/06	10/20/06	DWG0600894	
Anthracene	ND	U	7.2	0.30	1	10/17/06	10/20/06	DWG0600894	
Benz(a)anthracene	ND	U	7.2	0.30	1	10/17/06	10/20/06	DWG0600894	
Benzo(a)pyrene	ND	U	7.2	0.78	1	10/17/06	10/20/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-51-GW38
Lab Code: D0601593-009

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	7.2	0.60	1	10/17/06	10/20/06	DWG0600894	
Benzo(g,h,i)perylene	ND	U	7.2	1.1	1	10/17/06	10/20/06	DWG0600894	
Benzo(k)fluoranthene	ND	U	7.2	0.46	1	10/17/06	10/20/06	DWG0600894	
Benzoic acid	ND	U	72	29	1	10/17/06	10/20/06	DWG0600894	
Benzyl alcohol	ND	U	15	0.32	1	10/17/06	10/20/06	DWG0600894	
bis(2-Chloroethoxy)methane	ND	U	7.2	0.46	1	10/17/06	10/20/06	DWG0600894	
Bis(2-chloroethyl) Ether	ND	U	7.2	0.35	1	10/17/06	10/20/06	DWG0600894	
Bis(2-Chloroisopropyl)ether	ND	U	7.2	0.35	1	10/17/06	10/20/06	DWG0600894	
Bis(2-ethylhexyl) Phthalate	**4.6**	J	7.2	0.43	1	10/17/06	10/20/06	DWG0600894	
Butyl Benzyl Phthalate	ND	U	7.2	0.69	1	10/17/06	10/20/06	DWG0600894	
Chrysene	ND	U	7.2	0.32	1	10/17/06	10/20/06	DWG0600894	
Di-n-butyl Phthalate	ND	U	7.2	0.36	1	10/17/06	10/20/06	DWG0600894	
Di-n-octyl Phthalate	ND	U	7.2	0.48	1	10/17/06	10/20/06	DWG0600894	
Dibenz(a,h)anthracene	ND	U	7.2	0.89	1	10/17/06	10/20/06	DWG0600894	
Dibenzofuran	ND	U	7.2	0.32	1	10/17/06	10/20/06	DWG0600894	
Diethyl Phthalate	**2.9**	J	7.2	0.40	1	10/17/06	10/20/06	DWG0600894	
Dimethyl Phthalate	ND	U	7.2	0.38	1	10/17/06	10/20/06	DWG0600894	
Fluoranthene	ND	U	7.2	0.30	1	10/17/06	10/20/06	DWG0600894	
Fluorene	ND	U	7.2	0.32	1	10/17/06	10/20/06	DWG0600894	
Hexachlorobenzene	ND	U	2.9	0.30	1	10/17/06	10/20/06	DWG0600894	
Hexachlorobutadiene	ND	U	15	0.32	1	10/17/06	10/20/06	DWG0600894	
Hexachlorocyclopentadiene	ND	U	15	2.6	1	10/17/06	10/20/06	DWG0600894	
Hexachloroethane	ND	U	15	3.6	1	10/17/06	10/20/06	DWG0600894	
Indeno(1,2,3-cd)pyrene	ND	U	7.2	0.93	1	10/17/06	10/20/06	DWG0600894	
Isophorone	ND	U	7.2	0.43	1	10/17/06	10/20/06	DWG0600894	
N-Nitrosodi-n-propylamine	ND	U	7.2	0.40	1	10/17/06	10/20/06	DWG0600894	
N-Nitrosodimethylamine	ND	U	7.2	0.69	1	10/17/06	10/20/06	DWG0600894	
N-Nitrosodiphenylamine	ND	U	7.2	0.33	1	10/17/06	10/20/06	DWG0600894	
Naphthalene	ND	U	7.2	0.30	1	10/17/06	10/20/06	DWG0600894	
Nitrobenzene	ND	U	7.2	0.38	1	10/17/06	10/20/06	DWG0600894	
Pentachlorophenol	ND	U	43	0.90	1	10/17/06	10/20/06	DWG0600894	
Phenanthrene	ND	U	7.2	0.32	1	10/17/06	10/20/06	DWG0600894	
Phenol	ND	U	7.2	0.16	1	10/17/06	10/20/06	DWG0600894	
Pyrene	ND	U	7.2	0.48	1	10/17/06	10/20/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: T-51-GW38
Lab Code: D0601593-009

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	15	0.48	1	10/17/06	10/20/06	DWG0600894	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	90	31-112	10/20/06	Acceptable
2-Fluorobiphenyl	77	47-110	10/20/06	Acceptable
2-Fluorophenol	90	23-115	10/20/06	Acceptable
Nitrobenzene-d5	104	42-122	10/20/06	Acceptable
Phenol-d5	95	23-121	10/20/06	Acceptable
Terphenyl-d14	21	37-130	10/20/06	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0600894-4

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	10/17/06	10/19/06	DWG0600894	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	10/17/06	10/19/06	DWG0600894	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	10/17/06	10/19/06	DWG0600894	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	10/17/06	10/19/06	DWG0600894	
1,4-Dioxane	ND	U	2.0	0.41	1	10/17/06	10/19/06	DWG0600894	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	10/17/06	10/19/06	DWG0600894	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	10/17/06	10/19/06	DWG0600894	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	10/17/06	10/19/06	DWG0600894	
2,4-Dimethylphenol	ND	U	10	0.83	1	10/17/06	10/19/06	DWG0600894	
2,4-Dinitrophenol	ND	U	50	10	1	10/17/06	10/19/06	DWG0600894	
2,4-Dinitrotoluene	ND	U	2.0	0.30	1	10/17/06	10/19/06	DWG0600894	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	10/17/06	10/19/06	DWG0600894	
2-Chloronaphthalene	ND	U	5.0	0.22	1	10/17/06	10/19/06	DWG0600894	
2-Chlorophenol	ND	U	5.0	0.24	1	10/17/06	10/19/06	DWG0600894	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	10/17/06	10/19/06	DWG0600894	
2-Methylnaphthalene	ND	U	5.0	0.18	1	10/17/06	10/19/06	DWG0600894	
2-Methylphenol	ND	U	5.0	0.32	1	10/17/06	10/19/06	DWG0600894	
2-Nitroaniline	ND	U	20	0.27	1	10/17/06	10/19/06	DWG0600894	
2-Nitrophenol	ND	U	5.0	0.26	1	10/17/06	10/19/06	DWG0600894	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	10/17/06	10/19/06	DWG0600894	
3-Nitroaniline	ND	U	20	0.29	1	10/17/06	10/19/06	DWG0600894	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	10/17/06	10/19/06	DWG0600894	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	10/17/06	10/19/06	DWG0600894	
4-Chloroaniline	ND	U	5.0	0.36	1	10/17/06	10/19/06	DWG0600894	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	10/17/06	10/19/06	DWG0600894	
4-Methylphenol	ND	U	5.0	0.28	1	10/17/06	10/19/06	DWG0600894	
4-Nitroaniline	ND	U	20	0.36	1	10/17/06	10/19/06	DWG0600894	
4-Nitrophenol	ND	U	50	20	1	10/17/06	10/19/06	DWG0600894	
Acenaphthene	ND	U	5.0	0.15	1	10/17/06	10/19/06	DWG0600894	
Acenaphthylene	ND	U	5.0	0.23	1	10/17/06	10/19/06	DWG0600894	
Aniline	ND	U	5.0	0.34	1	10/17/06	10/19/06	DWG0600894	
Anthracene	ND	U	5.0	0.21	1	10/17/06	10/19/06	DWG0600894	
Benz(a)anthracene	ND	U	5.0	0.21	1	10/17/06	10/19/06	DWG0600894	
Benzo(a)pyrene	ND	U	5.0	0.54	1	10/17/06	10/19/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0600894-4

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	10/17/06	10/19/06	DWG0600894	
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	10/17/06	10/19/06	DWG0600894	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	10/17/06	10/19/06	DWG0600894	
Benzoic acid	ND	U	50	20	1	10/17/06	10/19/06	DWG0600894	
Benzyl alcohol	ND	U	10	0.22	1	10/17/06	10/19/06	DWG0600894	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	10/17/06	10/19/06	DWG0600894	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	10/17/06	10/19/06	DWG0600894	
Bis(2-Chloroisopropyl)ether	ND	U	5.0	0.24	1	10/17/06	10/19/06	DWG0600894	
Bis(2-ethylhexyl) Phthalate	**0.36**	J	5.0	0.30	1	10/17/06	10/19/06	DWG0600894	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	10/17/06	10/19/06	DWG0600894	
Chrysene	ND	U	5.0	0.22	1	10/17/06	10/19/06	DWG0600894	
Di-n-butyl Phthalate	**0.25**	J	5.0	0.25	1	10/17/06	10/19/06	DWG0600894	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	10/17/06	10/19/06	DWG0600894	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	10/17/06	10/19/06	DWG0600894	
Dibenzofuran	ND	U	5.0	0.22	1	10/17/06	10/19/06	DWG0600894	
Diethyl Phthalate	ND	U	5.0	0.28	1	10/17/06	10/19/06	DWG0600894	
Dimethyl Phthalate	ND	U	5.0	0.26	1	10/17/06	10/19/06	DWG0600894	
Fluoranthene	ND	U	5.0	0.21	1	10/17/06	10/19/06	DWG0600894	
Fluorene	ND	U	5.0	0.22	1	10/17/06	10/19/06	DWG0600894	
Hexachlorobenzene	ND	U	2.0	0.21	1	10/17/06	10/19/06	DWG0600894	
Hexachlorobutadiene	ND	U	10	0.22	1	10/17/06	10/19/06	DWG0600894	
Hexachlorocyclopentadiene	ND	U	10	1.8	1	10/17/06	10/19/06	DWG0600894	
Hexachloroethane	ND	U	10	2.5	1	10/17/06	10/19/06	DWG0600894	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	10/17/06	10/19/06	DWG0600894	
Isophorone	ND	U	5.0	0.30	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	10/17/06	10/19/06	DWG0600894	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	10/17/06	10/19/06	DWG0600894	
Naphthalene	ND	U	5.0	0.21	1	10/17/06	10/19/06	DWG0600894	
Nitrobenzene	ND	U	5.0	0.26	1	10/17/06	10/19/06	DWG0600894	
Pentachlorophenol	ND	U	30	0.63	1	10/17/06	10/19/06	DWG0600894	
Phenanthrene	ND	U	5.0	0.22	1	10/17/06	10/19/06	DWG0600894	
Phenol	ND	U	5.0	0.11	1	10/17/06	10/19/06	DWG0600894	
Pyrene	ND	U	5.0	0.33	1	10/17/06	10/19/06	DWG0600894	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: DWG0600894-4

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	0.33	1	10/17/06	10/19/06	DWG0600894	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	95	31-112	10/19/06	Acceptable
2-Fluorobiphenyl	110	47-110	10/19/06	Acceptable
2-Fluorophenol	99	23-115	10/19/06	Acceptable
Nitrobenzene-d5	119	42-122	10/19/06	Acceptable
Phenol-d5	106	23-121	10/19/06	Acceptable
Terphenyl-d14	87	37-130	10/19/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593

Surrogate Recovery Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4	Sur5	Sur6	
T-50-GW11	D0601593-002	78	81	69	92	82	46	
T-50-GW26	D0601593-003	83	85	78	93	83	68	
T-50-GW41	D0601593-004	88	86	81	94	88	50	
T-51-GW11	D0601593-006	90	95	88	105	95	57	
T-51-GW26	D0601593-008	85	85	75	92	82	67	
T-51-GW38	D0601593-009	90	77	90	104	95	21	*
Method Blank	DWG0600894-4	95	110	99	119	106	87	
Batch QC	D0601575-003	88	91	85	101	93	72	
Batch QCMS	DWG0600894-1	96	99	91	110	101	90	
Batch QCDMS	DWG0600894-2	84	89	77	97	86	78	
Lab Control Sample	DWG0600894-3	94	101	91	108	98	92	

Surrogate Recovery Control Limits (%)

Sur1 = 2,4,6-Tribromophenol	31-112	Sur5 = Phenol-d5	23-121
Sur2 = 2-Fluorobiphenyl	47-110	Sur6 = Terphenyl-d14	37-130
Sur3 = 2-Fluorophenol	23-115		
Sur4 = Nitrobenzene-d5	42-122		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Extracted:**	10/17/2006
Sample Matrix:	Water	**Date Analyzed:**	10/19/2006

Matrix Spike/Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	D0601575-003	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C	**Extraction Lot:**	DWG0600894

		Batch QCMS DWG0600894-1 Matrix Spike			Batch QCDMS DWG0600894-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	ND	41.5	47.6	87	36.2	47.6	76	30-101	14	20
1,4-Dichlorobenzene	ND	39.9	47.6	84	34.1	47.6	72	19-102	16	20
1,4-Dioxane	ND	45.9	47.6	96	40.0	47.6	84	35-101	14	20
2,4-Dinitrotoluene	ND	52.9	47.6	111	46.6	47.6	98	23-132	13	20
2-Chlorophenol	ND	47.1	47.6	99	40.5	47.6	85	45-108	15	20
4-Chloro-3-methylphenol	ND	54.8	47.6	115	47.1	47.6	99	45-115	15	20
4-Nitrophenol	ND	110	95.2	115	93.3	95.2	98	10-134	16	20
Acenaphthene	ND	47.6	47.6	100	42.2	47.6	89	39-119	12	20
N-Nitrosodi-n-propylamine	ND	54.8	47.6	115 *	46.5	47.6	98	43-112	16	20
Pentachlorophenol	ND	86.9	95.2	91	75.9	95.2	80	15-141	14	20
Phenol	ND	48.5	47.6	102	41.6	47.6	87	20-119	15	20
Pyrene	ND	41.0	47.6	86	36.1	47.6	76	29-140	13	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Extracted: 10/17/2006
Date Analyzed: 10/19/2006

Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: DWG0600894

	Lab Control Sample DWG0600894-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2,4-Trichlorobenzene	41.9	50.0	84	30-101
1,2-Dichlorobenzene	42.2	50.0	84	20-105
1,3-Dichlorobenzene	40.4	50.0	81	15-104
1,4-Dichlorobenzene	40.0	50.0	80	19-102
1,4-Dioxane	47.7	50.0	95	35-101
2,4,5-Trichlorophenol	49.0	50.0	98	48-114
2,4,6-Trichlorophenol	50.6	50.0	101	48-112
2,4-Dichlorophenol	48.0	50.0	96	49-114
2,4-Dimethylphenol	50.9	50.0	102	38-107
2,4-Dinitrophenol	71.1	100	71	16-134
2,4-Dinitrotoluene	51.9	50.0	104	23-132
2,6-Dinitrotoluene	52.1	50.0	104	47-116
2-Chloronaphthalene	46.8	50.0	94	41-113
2-Chlorophenol	47.2	50.0	94	45-108
2-Methyl-4,6-dinitrophenol	79.5	100	79	21-134
2-Methylnaphthalene	45.6	50.0	91	41-112
2-Methylphenol	50.6	50.0	101	44-110
2-Nitroaniline	54.8	50.0	110	19-137
2-Nitrophenol	49.8	50.0	100	47-117
3,3'-Dichlorobenzidine	87.0	100	87	10-122
3-Nitroaniline	52.4	50.0	105	25-146
4-Bromophenyl Phenyl Ether	44.7	50.0	89	46-117
4-Chloro-3-methylphenol	52.6	50.0	105	45-115
4-Chloroaniline	51.7	50.0	103	16-139
4-Chlorophenyl Phenyl Ether	49.1	50.0	98	45-115
4-Methylphenol	51.0	50.0	102	60-108
4-Nitroaniline	50.9	50.0	102	16-147
4-Nitrophenol	102	100	102	10-134
Acenaphthene	47.7	50.0	95	39-119
Acenaphthylene	49.0	50.0	98	51-112
Aniline	50.8	50.0	102	10-144
Anthracene	45.3	50.0	91	40-123
Benz(a)anthracene	47.1	50.0	94	36-126
Benzo(a)pyrene	49.8	50.0	100	41-125
Benzo(b)fluoranthene	49.4	50.0	99	48-126
Benzo(g,h,i)perylene	62.8	50.0	126	33-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Extracted: 10/17/2006
Date Analyzed: 10/19/2006

Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: DWG0600894

Analyte Name	Lab Control Sample DWG0600894-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Benzo(k)fluoranthene	48.2	50.0	96	49-125
Benzoic acid	17.5	50.0	35	10-148
Benzyl alcohol	52.7	50.0	105	48-119
bis(2-Chloroethoxy)methane	48.1	50.0	96	39-120
Bis(2-chloroethyl) Ether	47.4	50.0	95	41-108
Bis(2-Chloroisopropyl)ether	51.9	50.0	104	38-119
Bis(2-ethylhexyl) Phthalate	58.6	50.0	117	42-127
Butyl Benzyl Phthalate	52.0	50.0	104	40-126
Chrysene	46.3	50.0	93	47-117
Di-n-butyl Phthalate	50.6	50.0	101	40-126
Di-n-octyl Phthalate	51.9	50.0	104	48-127
Dibenz(a,h)anthracene	63.1	50.0	126	44-137
Dibenzofuran	48.3	50.0	97	45-115
Diethyl Phthalate	51.7	50.0	103	41-120
Dimethyl Phthalate	50.2	50.0	100	46-116
Fluoranthene	50.0	50.0	100	35-127
Fluorene	49.5	50.0	99	46-121
Hexachlorobenzene	44.3	50.0	89	44-117
Hexachlorobutadiene	39.8	50.0	80	17-101
Hexachlorocyclopentadiene	22.3	50.0	45	10-74
Hexachloroethane	39.9	50.0	80	10-105
Indeno(1,2,3-cd)pyrene	62.0	50.0	124	38-131
Isophorone	53.0	50.0	106	44-115
N-Nitrosodi-n-propylamine	53.4	50.0	107	43-112
N-Nitrosodimethylamine	53.2	50.0	106	35-119
N-Nitrosodiphenylamine	45.8	50.0	92	53-106
Naphthalene	44.8	50.0	90	36-111
Nitrobenzene	52.2	50.0	104	42-116
Pentachlorophenol	82.1	100	82	15-141
Phenanthrene	45.0	50.0	90	43-120
Phenol	49.6	50.0	99	20-119
Pyrene	44.5	50.0	89	29-140
Pyridine	44.9	50.0	90	23-98

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601593

Cover Page - Organic Analysis Data Package
Hydrocarbon Scan / Fuel Characterization

Sample Name	Lab Code	Date Collected	Date Received
T-50-S6.5	D0601593-001	10/12/2006	10/14/2006
T-50-GW11	D0601593-002	10/12/2006	10/14/2006
T-50-GW26	D0601593-003	10/12/2006	10/14/2006
T-50-GW41	D0601593-004	10/12/2006	10/14/2006
T-51-S7	D0601593-005	10/12/2006	10/14/2006
T-51-GW11	D0601593-006	10/12/2006	10/14/2006
T-51-GW26	D0601593-008	10/12/2006	10/14/2006
T-51-GW38	D0601593-009	10/12/2006	10/14/2006
T-50-S6.5MS	DWG0600901-1	10/12/2006	10/14/2006
T-50-S6.5DMS	DWG0600901-2	10/12/2006	10/14/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang

Name: WIDA ANG

Date: 10/23/06

Title: Organic Manager

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Collected:**	10/12/2006
Sample Matrix:	Water	**Date Received:**	10/14/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-50-GW11	**Units:**	mg/L
Lab Code:	D0601593-002	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	10/19/06	10/21/06	DWG0600899	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	87	50-140	10/21/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Collected:**	10/12/2006
Sample Matrix:	Water	**Date Received:**	10/14/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-50-GW26	**Units:**	mg/L
Lab Code:	D0601593-003	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	10/19/06	10/21/06	DWG0600899	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	88	50-140	10/21/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Collected:**	10/12/2006
Sample Matrix:	Water	**Date Received:**	10/14/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-50-GW41	**Units:**	mg/L
Lab Code:	D0601593-004	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	
Diesel Range Organics (C13-C22)	**0.50**	J	1.0	0.44	1	10/19/06	10/21/06	DWG0600899	
Heavy Range Organics (C24-C36)	**0.57**	J	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	86	50-140	10/21/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Collected:**	10/12/2006
Sample Matrix:	Water	**Date Received:**	10/14/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-51-GW11	**Units:**	mg/L
Lab Code:	D0601593-006	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	10/19/06	10/21/06	DWG0600899	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	88	50-140	10/21/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Collected:**	10/12/2006
Sample Matrix:	Water	**Date Received:**	10/14/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-51-GW26	**Units:**	mg/L
Lab Code:	D0601593-008	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	
Diesel Range Organics (C13-C22)	**0.46**	J	1.0	0.44	1	10/19/06	10/21/06	DWG0600899	
Heavy Range Organics (C24-C36)	**0.72**	J	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	87	50-140	10/21/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593
Date Collected: 10/12/2006
Date Received: 10/14/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name: T-51-GW38
Lab Code: D0601593-009

Units: mg/L
Basis: NA

Extraction Method: EPA 3510M
Analysis Method: 8015B

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	
Diesel Range Organics (C13-C22)	**1.8**		1.0	0.44	1	10/19/06	10/21/06	DWG0600899	
Heavy Range Organics (C24-C36)	**5.5**		1.0	0.50	1	10/19/06	10/21/06	DWG0600899	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	84	50-140	10/21/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Collected:**	NA
Sample Matrix:	Storm water	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	DWG0600899-3	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	
Diesel Range Organics (C13-C22)	ND	U	1.0	0.44	1	10/19/06	10/21/06	DWG0600899	
Heavy Range Organics (C24-C36)	ND	U	1.0	0.50	1	10/19/06	10/21/06	DWG0600899	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	88	50-140	10/21/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Collected:**	10/12/2006
Sample Matrix:	Soil	**Date Received:**	10/14/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-50-S6.5	**Units:**	mg/Kg
Lab Code:	D0601593-001	**Basis:**	Dry
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	13	4.1	1	10/22/06	10/22/06	DWG0600901	
Diesel Range Organics (C13-C22)	ND	U	13	6.7	1	10/22/06	10/22/06	DWG0600901	
Heavy Range Organics (C24-C36)	**21**		13	6.8	1	10/22/06	10/22/06	DWG0600901	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	81	40-150	10/22/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Collected:**	10/12/2006
Sample Matrix:	Soil	**Date Received:**	10/14/2006

Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-51-S7	**Units:**	mg/Kg
Lab Code:	D0601593-005	**Basis:**	Dry
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	11	3.6	1	10/22/06	10/22/06	DWG0600901	
Diesel Range Organics (C13-C22)	ND	U	11	5.9	1	10/22/06	10/22/06	DWG0600901	
Heavy Range Organics (C24-C36)	ND	U	11	6.0	1	10/22/06	10/22/06	DWG0600901	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	80	40-150	10/22/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Hydrocarbon Scan / Fuel Characterization

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	DWG0600901-4	**Basis:**	Dry
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (C6-C12)	ND	U	10	3.3	1	10/22/06	10/22/06	DWG0600901	
Diesel Range Organics (C13-C22)	ND	U	10	5.4	1	10/22/06	10/22/06	DWG0600901	
Heavy Range Organics (C24-C36)	ND	U	10	5.5	1	10/22/06	10/22/06	DWG0600901	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	83	40-150	10/22/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601593

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3510M
Analysis Method: 8015B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
T-50-GW11	D0601593-002	87
T-50-GW26	D0601593-003	88
T-50-GW41	D0601593-004	86
T-51-GW11	D0601593-006	88
T-51-GW26	D0601593-008	87
T-51-GW38	D0601593-009	84
Method Blank	DWG0600899-3	88
Lab Control Sample	DWG0600899-1	90
Duplicate Lab Control Sample	DWG0600899-2	89

Surrogate Recovery Control Limits (%)

Sur1 = Octacosane	50-140

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Soil

Service Request: D0601593

Surrogate Recovery Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3550B Micro
Analysis Method: 8015B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
T-50-S6.5	D0601593-001	81
T-51-S7	D0601593-005	80
Method Blank	DWG0600901-4	83
T-50-S6.5MS	DWG0600901-1	80
T-50-S6.5DMS	DWG0600901-2	82
Lab Control Sample	DWG0600901-3	82

Surrogate Recovery Control Limits (%)

Sur1 = Octacosane	40-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601593
Project:	TDY/SC0307	**Date Extracted:**	10/22/2006
Sample Matrix:	Soil	**Date Analyzed:**	10/22/2006

Matrix Spike/Duplicate Matrix Spike Summary
Hydrocarbon Scan / Fuel Characterization

Sample Name:	T-50-S6.5	**Units:**	mg/Kg
Lab Code:	D0601593-001	**Basis:**	Dry
Extraction Method:	EPA 3550B Micro	**Level:**	Low
Analysis Method:	8015B	**Extraction Lot:**	DWG0600901

		T-50-S6.5MS DWG0600901-1 Matrix Spike			T-50-S6.5DMS DWG0600901-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Diesel Range Organics (C13-C22)	ND	209	300	70	270	370	73	50-140	25	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Storm water

Service Request: D0601593
Date Extracted: 10/19/2006
Date Analyzed: 10/21/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3510M
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low
Extraction Lot: DWG0600899

Analyte Name	Lab Control Sample DWG0600899-1 Lab Control Spike Result	Expected	%Rec	Duplicate Lab Control Sample DWG0600899-2 Duplicate Lab Control Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C13-C22)	22.3	30.0	74	22.7	30.0	76	50-130	2	25

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Soil

Service Request: D0601593
Date Extracted: 10/22/2006
Date Analyzed: 10/22/2006

Lab Control Spike Summary
Hydrocarbon Scan / Fuel Characterization

Extraction Method: EPA 3550B Micro
Analysis Method: 8015B

Units: mg/Kg
Basis: Dry
Level: Low
Extraction Lot: DWG0600901

Analyte Name	Lab Control Sample DWG0600901-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Diesel Range Organics (C13-C22)	221	300	74	50-140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601258

Cover Page - Analysis Data Package
PolyChlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
MWCL-4	D0601258-004	08/31/2006	09/02/2006
MWCL-5	D0601258-005	09/01/2006	09/02/2006
MWCL-6	D0601258-006	08/31/2006	09/02/2006
B120-MW5	D0601258-007	09/01/2006	09/02/2006
B120-MW4	D0601258-008	09/01/2006	09/02/2006
MWCL-2	D0601258-013	09/01/2006	09/02/2006

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Marks. Fesler

Date: 9/16/06 Title: Project Chemist

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name: MWCL-4
Lab Code: D0601258-004
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.24	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1221	ND	U	0.22	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1232	ND	U	0.20	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1242	ND	U	0.043	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1248	ND	U	0.12	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1254	ND	U	0.063	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1260	ND	U	0.081	1.0	1	09/06/2006	09/14/2006	PWB10906	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	68	10-110	09/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	09/01/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name:	MWCL-5		
Lab Code:	D0601258-005	**Units:**	ug/L (ppb)
Extraction	SW3520	**Basis:**	NA
Analysis Method:	SW8082		

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.24	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1221	ND	U	0.22	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1232	ND	U	0.20	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1242	ND	U	0.043	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1248	ND	U	0.12	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1254	ND	U	0.063	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1260	ND	U	0.081	1.0	1	09/06/2006	09/14/2006	PWB10906	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	39	10-110	09/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name: MWCL-6
Lab Code: D0601258-006
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.24	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1221	ND	U	0.22	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1232	ND	U	0.20	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1242	ND	U	0.043	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1248	ND	U	0.12	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1254	ND	U	0.063	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1260	ND	U	0.081	1.0	1	09/06/2006	09/14/2006	PWB10906	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	66	10-110	09/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	09/01/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name:	B120-MW5		
Lab Code:	D0601258-007	**Units:**	ug/L (ppb)
Extraction	SW3520	**Basis:**	NA
Analysis Method:	SW8082		

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.24	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1221	ND	U	0.22	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1232	ND	U	0.20	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1242	ND	U	0.043	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1248	ND	U	0.12	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1254	ND	U	0.063	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1260	ND	U	0.081	1.0	1	09/06/2006	09/14/2006	PWB10906	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	53	10-110	09/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	09/01/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name:	B120-MW4		
Lab Code:	D0601258-008	**Units:**	ug/L (ppb)
Extraction	SW3520	**Basis:**	NA
Analysis Method:	SW8082		

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.24	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1221	ND	U	0.22	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1232	ND	U	0.20	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1242	ND	U	0.043	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1248	ND	U	0.12	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1254	ND	U	0.063	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1260	ND	U	0.081	1.0	1	09/06/2006	09/14/2006	PWB10906	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	25	10-110	09/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	09/01/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name:	MWCL-2		
Lab Code:	D0601258-013	**Units:**	ug/L (ppb)
Extraction	SW3520	**Basis:**	NA
Analysis Method:	SW8082		

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.24	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1221	ND	U	0.22	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1232	ND	U	0.20	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1242	ND	U	0.043	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1248	ND	U	0.12	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1254	ND	U	0.063	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1260	ND	U	0.081	1.0	1	09/06/2006	09/14/2006	PWB10906	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	46	10-110	09/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

PolyChlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: PWB10906
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.24	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1221	ND	U	0.22	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1232	ND	U	0.20	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1242	ND	U	0.043	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1248	ND	U	0.12	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1254	ND	U	0.063	1.0	1	09/06/2006	09/14/2006	PWB10906	
Aroclor 1260	ND	U	0.081	1.0	1	09/06/2006	09/14/2006	PWB10906	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	60	10-110	09/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258

Surrogate Recovery Summary
PolyChlorinated Biphenyls (PCBs)

Prep Method: SW3520
Analysis Method: SW8082

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	PWB10906LCS		77
Laboratory Control Sample Duplicate	PWB10906LCSD		70
Method Blank	PWB10906		60
MWCL-4	D0601258-004		68
MWCL-5	D0601258-005		39
MWCL-6	D0601258-006		66
B120-MW5	D0601258-007		53
B120-MW4	D0601258-008		25
MWCL-2	D0601258-013		46

Surrogate Recovery Control Limits (%)

S1: Decachlorobiphenyl - SS 10-110

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	09/06/2006
		Date Analyzed:	09/14/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
PolyChlorinated Biphenyls (PCBs)

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10906LCS / PWB10906LCSD	**Units:**	ug/L (ppb)
Extraction	SW3520		
Analysis Method:	SW8082		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Aroclor 1016	1.0	5.000	5.392	5.076	108	102	69-119	6	
Aroclor 1260	1.0	5.000	5.147	4.834	103	97	58-135	6	

Volatile Organics
By GC/MS

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: GeoSyntec Consultants
Project: TDY

Service Request: D0601258

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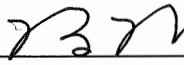
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
MWCL-1	D0601258-001	08/31/2006	09/02/2006
MWCL-2	D0601258-002	08/31/2006	09/02/2006
MWCL-3	D0601258-003	08/31/2006	09/02/2006
MWCL-4	D0601258-004	08/31/2006	09/02/2006
MWCL-5	D0601258-005	09/01/2006	09/02/2006
MWCL-6	D0601258-006	08/31/2006	09/02/2006
B120-MW5	D0601258-007	09/01/2006	09/02/2006
B120-MW4	D0601258-008	09/01/2006	09/02/2006
QCEB1	D0601258-009	08/31/2006	09/02/2006
QCEB2	D0601258-010	09/01/2006	09/02/2006
QCTB1	D0601258-011	09/01/2006	09/02/2006
QCTB2	D0601258-012	09/01/2006	09/02/2006

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Brian Moore

Date: 09/18/06

Title: Technical Manager

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-1
Lab Code: D0601258-001
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chloromethane	**0.26**	J	0.24	1.0	1	09/05/2006	09/05/2006	K0905W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromomethane	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chloroethane	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Acetone	ND	U	0.91	10	1	09/05/2006	09/05/2006	K0905W01	
Carbon Disulfide	ND	U	0.14	2.0	1	09/05/2006	09/05/2006	K0905W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/05/2006	09/05/2006	K0905W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloroethane (1,1-DCA)	**0.87**		0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
Vinyl Acetate	ND	U	0.24	10	1	09/05/2006	09/05/2006	K0905W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
cis-1,2-Dichloroethene	**0.22**	J	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/05/2006	09/05/2006	K0905W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/05/2006	09/05/2006	K0905W01	
Chloroform	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
Benzene	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/05/2006	09/05/2006	K0905W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Dibromomethane	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/05/2006	09/05/2006	K0905W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/05/2006	09/05/2006	K0905W01	
Toluene	**0.21**	J	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
2-Hexanone	ND	U	0.49	10	1	09/05/2006	09/05/2006	K0905W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/05/2006	09/05/2006	K0905W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-1
Lab Code: D0601258-001
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/05/2006	09/05/2006	K0905W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
Xylenes, Total	**0.27**	J	0.10	1.5	1	09/05/2006	09/05/2006	K0905W01	
Styrene	ND	U	0.070	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromoform	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromobenzene	ND	U	0.13	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/05/2006	09/05/2006	K0905W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/05/2006	09/05/2006	K0905W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,4-Trimethylbenzene	**0.11**	J	0.080	1.0	1	09/05/2006	09/05/2006	K0905W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/05/2006	09/05/2006	K0905W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/05/2006	09/05/2006	K0905W01	
Naphthalene	ND	U	0.10	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/05/2006	09/05/2006	K0905W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	100	82-124	09/05/2006	
Dibromofluoromethane - SS	117	84-127	09/05/2006	
Toluene-d8 - SS	97	80-117	09/05/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-2
Lab Code: D0601258-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chloromethane	ND	U	0.24	1.0	1	09/05/2006	09/05/2006	K0905W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromomethane	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chloroethane	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Acetone	ND	U	0.91	10	1	09/05/2006	09/05/2006	K0905W01	
Carbon Disulfide	ND	U	0.14	2.0	1	09/05/2006	09/05/2006	K0905W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/05/2006	09/05/2006	K0905W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
Vinyl Acetate	ND	U	0.24	10	1	09/05/2006	09/05/2006	K0905W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
cis-1,2-Dichloroethene	**0.45**	J	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/05/2006	09/05/2006	K0905W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/05/2006	09/05/2006	K0905W01	
Chloroform	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
Benzene	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/05/2006	09/05/2006	K0905W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Dibromomethane	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/05/2006	09/05/2006	K0905W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/05/2006	09/05/2006	K0905W01	
Toluene	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
2-Hexanone	ND	U	0.49	10	1	09/05/2006	09/05/2006	K0905W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/05/2006	09/05/2006	K0905W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-2
Lab Code: D0601258-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/05/2006	09/05/2006	K0905W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/05/2006	09/05/2006	K0905W01	
Styrene	ND	U	0.070	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromoform	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromobenzene	ND	U	0.13	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/05/2006	09/05/2006	K0905W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/05/2006	09/05/2006	K0905W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/05/2006	09/05/2006	K0905W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/05/2006	09/05/2006	K0905W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/05/2006	09/05/2006	K0905W01	
Naphthalene	ND	U	0.10	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/05/2006	09/05/2006	K0905W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	94	82-124	09/05/2006	
Dibromofluoromethane - SS	119	84-127	09/05/2006	
Toluene-d8 - SS	99	80-117	09/05/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-3
Lab Code: D0601258-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloromethane	ND	U	0.24	1.0	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromomethane	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloroethane	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Acetone	ND	U	0.91	10	1	09/06/2006	09/06/2006	K0906W01	
Carbon Disulfide	ND	U	0.14	2.0	1	09/06/2006	09/06/2006	K0906W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/06/2006	09/06/2006	K0906W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Acetate	ND	U	0.24	10	1	09/06/2006	09/06/2006	K0906W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/06/2006	09/06/2006	K0906W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/06/2006	09/06/2006	K0906W01	
Chloroform	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
Benzene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/06/2006	09/06/2006	K0906W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Dibromomethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/06/2006	09/06/2006	K0906W01	
Toluene	**0.15**	J	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Hexanone	ND	U	0.49	10	1	09/06/2006	09/06/2006	K0906W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/06/2006	09/06/2006	K0906W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-3
Lab Code: D0601258-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/06/2006	09/06/2006	K0906W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/06/2006	09/06/2006	K0906W01	
Styrene	ND	U	0.070	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromoform	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromobenzene	ND	U	0.13	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/06/2006	09/06/2006	K0906W01	
Naphthalene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	105	82-124	09/06/2006	
Dibromofluoromethane - SS	124	84-127	09/06/2006	
Toluene-d8 - SS	99	80-117	09/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-4
Lab Code: D0601258-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chloromethane	ND	U	0.24	1.0	1	09/05/2006	09/05/2006	K0905W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromomethane	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chloroethane	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Acetone	ND	U	0.91	10	1	09/05/2006	09/05/2006	K0905W01	
Carbon Disulfide	ND	U	0.14	2.0	1	09/05/2006	09/05/2006	K0905W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/05/2006	09/05/2006	K0905W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
Vinyl Acetate	ND	U	0.24	10	1	09/05/2006	09/05/2006	K0905W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/05/2006	09/05/2006	K0905W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/05/2006	09/05/2006	K0905W01	
Chloroform	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
Benzene	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/05/2006	09/05/2006	K0905W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Dibromomethane	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/05/2006	09/05/2006	K0905W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/05/2006	09/05/2006	K0905W01	
Toluene	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
2-Hexanone	ND	U	0.49	10	1	09/05/2006	09/05/2006	K0905W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/05/2006	09/05/2006	K0905W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-4
Lab Code: D0601258-004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/05/2006	09/05/2006	K0905W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/05/2006	09/05/2006	K0905W01	
Styrene	ND	U	0.070	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromoform	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromobenzene	ND	U	0.13	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/05/2006	09/05/2006	K0905W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/05/2006	09/05/2006	K0905W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/05/2006	09/05/2006	K0905W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/05/2006	09/05/2006	K0905W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/05/2006	09/05/2006	K0905W01	
Naphthalene	ND	U	0.10	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/05/2006	09/05/2006	K0905W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	102	82-124	09/05/2006	
Dibromofluoromethane - SS	121	84-127	09/05/2006	
Toluene-d8 - SS	98	80-117	09/05/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-5
Lab Code: D0601258-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloromethane	ND	U	0.24	1.0	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Chloride	**1.1**		0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromomethane	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloroethane	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Acetone	**4.7**	J	0.91	10	1	09/06/2006	09/06/2006	K0906W01	
Carbon Disulfide	**0.60**	J	0.14	2.0	1	09/06/2006	09/06/2006	K0906W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/06/2006	09/06/2006	K0906W01	
trans-1,2-Dichloroethene	**1.1**		0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Acetate	ND	U	0.24	10	1	09/06/2006	09/06/2006	K0906W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/06/2006	09/06/2006	K0906W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/06/2006	09/06/2006	K0906W01	
Chloroform	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
Benzene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/06/2006	09/06/2006	K0906W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Dibromomethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Methyl-2-pentanone (MIBK)	**3.9**	J	0.56	10	1	09/06/2006	09/06/2006	K0906W01	
Toluene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Hexanone	ND	U	0.49	10	1	09/06/2006	09/06/2006	K0906W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/06/2006	09/06/2006	K0906W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-5
Lab Code: D0601258-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/06/2006	09/06/2006	K0906W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/06/2006	09/06/2006	K0906W01	
Styrene	ND	U	0.070	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromoform	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromobenzene	ND	U	0.13	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/06/2006	09/06/2006	K0906W01	
Naphthalene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	
cis-1,2-Dichloroethene	**320**	D	1.4	5.0	10	09/12/2006	09/12/2006	K0911W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	101	82-124	09/06/2006	
Dibromofluoromethane - SS	117	84-127	09/06/2006	
Toluene-d8 - SS	98	80-117	09/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-6
Lab Code: D0601258-006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chloromethane	ND	U	0.24	1.0	1	09/12/2006	09/12/2006	K0911W02	
Vinyl Chloride	**0.92**		0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromomethane	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chloroethane	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Acetone	ND	U	0.91	10	1	09/12/2006	09/12/2006	K0911W02	
Carbon Disulfide	ND	U	0.14	2.0	1	09/12/2006	09/12/2006	K0911W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/12/2006	09/12/2006	K0911W02	
trans-1,2-Dichloroethene	**0.92**		0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloroethane (1,1-DCA)	**0.24**	J	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
Vinyl Acetate	ND	U	0.24	10	1	09/12/2006	09/12/2006	K0911W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
cis-1,2-Dichloroethene	**0.69**		0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
2-Butanone (MEK)	ND	U	0.66	10	1	09/12/2006	09/12/2006	K0911W02	
Bromochloromethane	ND	U	0.17	0.50	1	09/12/2006	09/12/2006	K0911W02	
Chloroform	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
Benzene	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/12/2006	09/12/2006	K0911W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Dibromomethane	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromodichloromethane	ND	U	0.14	1.0	1	09/12/2006	09/12/2006	K0911W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/12/2006	09/12/2006	K0911W02	
Toluene	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
2-Hexanone	ND	U	0.49	10	1	09/12/2006	09/12/2006	K0911W02	
Dibromochloromethane	ND	U	0.12	1.0	1	09/12/2006	09/12/2006	K0911W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: MWCL-6
Lab Code: D0601258-006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chlorobenzene	ND	U	0.12	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/12/2006	09/12/2006	K0911W02	
Ethylbenzene	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
Xylenes, Total	**0.33**	J	0.10	1.5	1	09/12/2006	09/12/2006	K0911W02	
Styrene	ND	U	0.070	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromoform	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
Isopropylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromobenzene	ND	U	0.13	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/12/2006	09/12/2006	K0911W02	
n-Propylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,3,5-Trimethylbenzene	**0.12**	J	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/12/2006	09/12/2006	K0911W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,4-Trimethylbenzene	**0.27**	J	0.080	1.0	1	09/12/2006	09/12/2006	K0911W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
4-Isopropyltoluene	**0.064**	J	0.060	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
n-Butylbenzene	**0.36**	J	0.10	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/12/2006	09/12/2006	K0911W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/12/2006	09/12/2006	K0911W02	
Naphthalene	**130**	D	0.50	5.0	5	09/12/2006	09/12/2006	K0911W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	98	82-124	09/12/2006	
Dibromofluoromethane - SS	110	84-127	09/12/2006	
Toluene-d8 - SS	104	80-117	09/12/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: B120-MW5
Lab Code: D0601258-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chloromethane	ND	U	0.24	1.0	1	09/12/2006	09/12/2006	K0911W02	
Vinyl Chloride	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromomethane	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chloroethane	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Acetone	ND	U	0.91	10	1	09/12/2006	09/12/2006	K0911W02	
Carbon Disulfide	ND	U	0.14	2.0	1	09/12/2006	09/12/2006	K0911W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/12/2006	09/12/2006	K0911W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Methyl tert-Butyl Ether	**0.29**	J	0.11	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
Vinyl Acetate	ND	U	0.24	10	1	09/12/2006	09/12/2006	K0911W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
cis-1,2-Dichloroethene	**3.5**		0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
2-Butanone (MEK)	ND	U	0.66	10	1	09/12/2006	09/12/2006	K0911W02	
Bromochloromethane	ND	U	0.17	0.50	1	09/12/2006	09/12/2006	K0911W02	
Chloroform	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
Benzene	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/12/2006	09/12/2006	K0911W02	
Trichloroethene (TCE)	**0.15**	J	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Dibromomethane	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromodichloromethane	ND	U	0.14	1.0	1	09/12/2006	09/12/2006	K0911W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/12/2006	09/12/2006	K0911W02	
Toluene	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
2-Hexanone	ND	U	0.49	10	1	09/12/2006	09/12/2006	K0911W02	
Dibromochloromethane	ND	U	0.12	1.0	1	09/12/2006	09/12/2006	K0911W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: B120-MW5
Lab Code: D0601258-007
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chlorobenzene	ND	U	0.12	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/12/2006	09/12/2006	K0911W02	
Ethylbenzene	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
Xylenes, Total	ND	U	0.10	1.5	1	09/12/2006	09/12/2006	K0911W02	
Styrene	ND	U	0.070	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromoform	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
Isopropylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromobenzene	ND	U	0.13	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/12/2006	09/12/2006	K0911W02	
n-Propylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/12/2006	09/12/2006	K0911W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/12/2006	09/12/2006	K0911W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
n-Butylbenzene	ND	U	0.10	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/12/2006	09/12/2006	K0911W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/12/2006	09/12/2006	K0911W02	
Naphthalene	ND	U	0.10	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/12/2006	09/12/2006	K0911W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	100	82-124	09/12/2006	
Dibromofluoromethane - SS	108	84-127	09/12/2006	
Toluene-d8 - SS	103	80-117	09/12/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: B120-MW4
Lab Code: D0601258-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chloromethane	ND	U	0.24	1.0	1	09/12/2006	09/12/2006	K0911W02	
Vinyl Chloride	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromomethane	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chloroethane	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Acetone	ND	U	0.91	10	1	09/12/2006	09/12/2006	K0911W02	
Carbon Disulfide	ND	U	0.14	2.0	1	09/12/2006	09/12/2006	K0911W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/12/2006	09/12/2006	K0911W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
Vinyl Acetate	ND	U	0.24	10	1	09/12/2006	09/12/2006	K0911W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
cis-1,2-Dichloroethene	**0.43**	J	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
2-Butanone (MEK)	ND	U	0.66	10	1	09/12/2006	09/12/2006	K0911W02	
Bromochloromethane	ND	U	0.17	0.50	1	09/12/2006	09/12/2006	K0911W02	
Chloroform	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
Benzene	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/12/2006	09/12/2006	K0911W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Dibromomethane	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromodichloromethane	ND	U	0.14	1.0	1	09/12/2006	09/12/2006	K0911W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/12/2006	09/12/2006	K0911W02	
Toluene	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
2-Hexanone	ND	U	0.49	10	1	09/12/2006	09/12/2006	K0911W02	
Dibromochloromethane	ND	U	0.12	1.0	1	09/12/2006	09/12/2006	K0911W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: B120-MW4
Lab Code: D0601258-008
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chlorobenzene	ND	U	0.12	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/12/2006	09/12/2006	K0911W02	
Ethylbenzene	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
Xylenes, Total	ND	U	0.10	1.5	1	09/12/2006	09/12/2006	K0911W02	
Styrene	ND	U	0.070	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromoform	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
Isopropylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromobenzene	ND	U	0.13	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/12/2006	09/12/2006	K0911W02	
n-Propylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/12/2006	09/12/2006	K0911W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/12/2006	09/12/2006	K0911W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
n-Butylbenzene	ND	U	0.10	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/12/2006	09/12/2006	K0911W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/12/2006	09/12/2006	K0911W02	
Naphthalene	ND	U	0.10	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/12/2006	09/12/2006	K0911W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	100	82-124	09/12/2006	
Dibromofluoromethane - SS	110	84-127	09/12/2006	
Toluene-d8 - SS	101	80-117	09/12/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: QCEB1
Lab Code: D0601258-009
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloromethane	ND	U	0.24	1.0	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromomethane	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloroethane	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Acetone	ND	U	0.91	10	1	09/06/2006	09/06/2006	K0906W01	
Carbon Disulfide	ND	U	0.14	2.0	1	09/06/2006	09/06/2006	K0906W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/06/2006	09/06/2006	K0906W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Acetate	ND	U	0.24	10	1	09/06/2006	09/06/2006	K0906W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/06/2006	09/06/2006	K0906W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/06/2006	09/06/2006	K0906W01	
Chloroform	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
Benzene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/06/2006	09/06/2006	K0906W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Dibromomethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/06/2006	09/06/2006	K0906W01	
Toluene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Hexanone	ND	U	0.49	10	1	09/06/2006	09/06/2006	K0906W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/06/2006	09/06/2006	K0906W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: QCEB1
Lab Code: D0601258-009
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/06/2006	09/06/2006	K0906W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/06/2006	09/06/2006	K0906W01	
Styrene	ND	U	0.070	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromoform	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromobenzene	ND	U	0.13	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/06/2006	09/06/2006	K0906W01	
Naphthalene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	95	82-124	09/06/2006	
Dibromofluoromethane - SS	117	84-127	09/06/2006	
Toluene-d8 - SS	95	80-117	09/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: QCEB2
Lab Code: D0601258-010
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloromethane	ND	U	0.24	1.0	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromomethane	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloroethane	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Acetone	ND	U	0.91	10	1	09/06/2006	09/06/2006	K0906W01	
Carbon Disulfide	**0.46**	J	0.14	2.0	1	09/06/2006	09/06/2006	K0906W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/06/2006	09/06/2006	K0906W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Acetate	ND	U	0.24	10	1	09/06/2006	09/06/2006	K0906W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/06/2006	09/06/2006	K0906W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/06/2006	09/06/2006	K0906W01	
Chloroform	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
Benzene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/06/2006	09/06/2006	K0906W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Dibromomethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/06/2006	09/06/2006	K0906W01	
Toluene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Hexanone	ND	U	0.49	10	1	09/06/2006	09/06/2006	K0906W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/06/2006	09/06/2006	K0906W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: QCEB2
Lab Code: D0601258-010
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/06/2006	09/06/2006	K0906W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/06/2006	09/06/2006	K0906W01	
Styrene	ND	U	0.070	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromoform	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromobenzene	ND	U	0.13	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/06/2006	09/06/2006	K0906W01	
Naphthalene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	98	82-124	09/06/2006	
Dibromofluoromethane - SS	114	84-127	09/06/2006	
Toluene-d8 - SS	94	80-117	09/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: QCTB1
Lab Code: D0601258-011
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloromethane	ND	U	0.24	1.0	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromomethane	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloroethane	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Acetone	ND	U	0.91	10	1	09/06/2006	09/06/2006	K0906W01	
Carbon Disulfide	ND	U	0.14	2.0	1	09/06/2006	09/06/2006	K0906W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/06/2006	09/06/2006	K0906W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Acetate	ND	U	0.24	10	1	09/06/2006	09/06/2006	K0906W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/06/2006	09/06/2006	K0906W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/06/2006	09/06/2006	K0906W01	
Chloroform	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
Benzene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/06/2006	09/06/2006	K0906W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Dibromomethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/06/2006	09/06/2006	K0906W01	
Toluene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Hexanone	ND	U	0.49	10	1	09/06/2006	09/06/2006	K0906W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/06/2006	09/06/2006	K0906W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: QCTB1
Lab Code: D0601258-011
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/06/2006	09/06/2006	K0906W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/06/2006	09/06/2006	K0906W01	
Styrene	ND	U	0.070	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromoform	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromobenzene	ND	U	0.13	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/06/2006	09/06/2006	K0906W01	
Naphthalene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	98	82-124	09/06/2006	
Dibromofluoromethane - SS	119	84-127	09/06/2006	
Toluene-d8 - SS	92	80-117	09/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: QCTB2
Lab Code: D0601258-012
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloromethane	ND	U	0.24	1.0	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromomethane	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloroethane	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Acetone	ND	U	0.91	10	1	09/06/2006	09/06/2006	K0906W01	
Carbon Disulfide	ND	U	0.14	2.0	1	09/06/2006	09/06/2006	K0906W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/06/2006	09/06/2006	K0906W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Acetate	ND	U	0.24	10	1	09/06/2006	09/06/2006	K0906W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/06/2006	09/06/2006	K0906W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/06/2006	09/06/2006	K0906W01	
Chloroform	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
Benzene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/06/2006	09/06/2006	K0906W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Dibromomethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/06/2006	09/06/2006	K0906W01	
Toluene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Hexanone	ND	U	0.49	10	1	09/06/2006	09/06/2006	K0906W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/06/2006	09/06/2006	K0906W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Volatile Organic Compounds

Sample Name: QCTB2
Lab Code: D0601258-012
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/06/2006	09/06/2006	K0906W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/06/2006	09/06/2006	K0906W01	
Styrene	ND	U	0.070	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromoform	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromobenzene	ND	U	0.13	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/06/2006	09/06/2006	K0906W01	
Naphthalene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	95	82-124	09/06/2006	
Dibromofluoromethane - SS	114	84-127	09/06/2006	
Toluene-d8 - SS	95	80-117	09/06/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0905W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chloromethane	ND	U	0.24	1.0	1	09/05/2006	09/05/2006	K0905W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromomethane	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chloroethane	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Acetone	ND	U	0.91	10	1	09/05/2006	09/05/2006	K0905W01	
Carbon Disulfide	ND	U	0.14	2.0	1	09/05/2006	09/05/2006	K0905W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/05/2006	09/05/2006	K0905W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
Vinyl Acetate	ND	U	0.24	10	1	09/05/2006	09/05/2006	K0905W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/05/2006	09/05/2006	K0905W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/05/2006	09/05/2006	K0905W01	
Chloroform	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
Benzene	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/05/2006	09/05/2006	K0905W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/05/2006	09/05/2006	K0905W01	
Dibromomethane	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/05/2006	09/05/2006	K0905W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/05/2006	09/05/2006	K0905W01	
Toluene	ND	U	0.13	0.50	1	09/05/2006	09/05/2006	K0905W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
2-Hexanone	ND	U	0.49	10	1	09/05/2006	09/05/2006	K0905W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/05/2006	09/05/2006	K0905W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0905W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/05/2006	09/05/2006	K0905W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/05/2006	09/05/2006	K0905W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/05/2006	09/05/2006	K0905W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/05/2006	09/05/2006	K0905W01	
Styrene	ND	U	0.070	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromoform	ND	U	0.18	1.0	1	09/05/2006	09/05/2006	K0905W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/05/2006	09/05/2006	K0905W01	
Bromobenzene	ND	U	0.13	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/05/2006	09/05/2006	K0905W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/05/2006	09/05/2006	K0905W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/05/2006	09/05/2006	K0905W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/05/2006	09/05/2006	K0905W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/05/2006	09/05/2006	K0905W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/05/2006	09/05/2006	K0905W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/05/2006	09/05/2006	K0905W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/05/2006	09/05/2006	K0905W01	
Naphthalene	ND	U	0.10	1.0	1	09/05/2006	09/05/2006	K0905W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/05/2006	09/05/2006	K0905W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	107	82-124	09/05/2006	
Dibromofluoromethane - SS	111	84-127	09/05/2006	
Toluene-d8 - SS	99	80-117	09/05/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0906W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloromethane	ND	U	0.24	1.0	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Chloride	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromomethane	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chloroethane	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Acetone	ND	U	0.91	10	1	09/06/2006	09/06/2006	K0906W01	
Carbon Disulfide	ND	U	0.14	2.0	1	09/06/2006	09/06/2006	K0906W01	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/06/2006	09/06/2006	K0906W01	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Vinyl Acetate	ND	U	0.24	10	1	09/06/2006	09/06/2006	K0906W01	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Butanone (MEK)	ND	U	0.66	10	1	09/06/2006	09/06/2006	K0906W01	
Bromochloromethane	ND	U	0.17	0.50	1	09/06/2006	09/06/2006	K0906W01	
Chloroform	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
Benzene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/06/2006	09/06/2006	K0906W01	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/06/2006	09/06/2006	K0906W01	
Dibromomethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromodichloromethane	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/06/2006	09/06/2006	K0906W01	
Toluene	ND	U	0.13	0.50	1	09/06/2006	09/06/2006	K0906W01	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
2-Hexanone	ND	U	0.49	10	1	09/06/2006	09/06/2006	K0906W01	
Dibromochloromethane	ND	U	0.12	1.0	1	09/06/2006	09/06/2006	K0906W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0906W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/06/2006	09/06/2006	K0906W01	
Chlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/06/2006	09/06/2006	K0906W01	
Ethylbenzene	ND	U	0.11	0.50	1	09/06/2006	09/06/2006	K0906W01	
Xylenes, Total	ND	U	0.10	1.5	1	09/06/2006	09/06/2006	K0906W01	
Styrene	ND	U	0.070	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromoform	ND	U	0.18	1.0	1	09/06/2006	09/06/2006	K0906W01	
Isopropylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
Bromobenzene	ND	U	0.13	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Propylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/06/2006	09/06/2006	K0906W01	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/06/2006	09/06/2006	K0906W01	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/06/2006	09/06/2006	K0906W01	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/06/2006	09/06/2006	K0906W01	
n-Butylbenzene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/06/2006	09/06/2006	K0906W01	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/06/2006	09/06/2006	K0906W01	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/06/2006	09/06/2006	K0906W01	
Naphthalene	ND	U	0.10	1.0	1	09/06/2006	09/06/2006	K0906W01	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/06/2006	09/06/2006	K0906W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	111	82-124	09/06/2006	
Dibromofluoromethane - SS	111	84-127	09/06/2006	
Toluene-d8 - SS	100	80-117	09/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0911W02
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane (CFC 12)	ND	U	0.15	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chloromethane	ND	U	0.24	1.0	1	09/12/2006	09/12/2006	K0911W02	
Vinyl Chloride	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromomethane	**0.14**	J	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chloroethane	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
Trichlorofluoromethane (CFC 11)	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,1,2-Trichlorotrifluoroethane	ND	U	0.15	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Acetone	ND	U	0.91	10	1	09/12/2006	09/12/2006	K0911W02	
Carbon Disulfide	ND	U	0.14	2.0	1	09/12/2006	09/12/2006	K0911W02	
Dichloromethane (Methylene Chloride)	ND	U	0.19	2.0	1	09/12/2006	09/12/2006	K0911W02	
trans-1,2-Dichloroethene	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Methyl tert-Butyl Ether	ND	U	0.11	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloroethane (1,1-DCA)	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
Vinyl Acetate	ND	U	0.24	10	1	09/12/2006	09/12/2006	K0911W02	
2,2-Dichloropropane	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
cis-1,2-Dichloroethene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
2-Butanone (MEK)	ND	U	0.66	10	1	09/12/2006	09/12/2006	K0911W02	
Bromochloromethane	ND	U	0.17	0.50	1	09/12/2006	09/12/2006	K0911W02	
Chloroform	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,1-Trichloroethane (TCA)	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1-Dichloropropene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
Carbon Tetrachloride	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
Benzene	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichloroethane (EDC)	ND	U	0.10	0.50	1	09/12/2006	09/12/2006	K0911W02	
Trichloroethene (TCE)	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichloropropane	ND	U	0.16	0.50	1	09/12/2006	09/12/2006	K0911W02	
Dibromomethane	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromodichloromethane	ND	U	0.14	1.0	1	09/12/2006	09/12/2006	K0911W02	
cis-1,3-Dichloropropene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
4-Methyl-2-pentanone (MIBK)	ND	U	0.56	10	1	09/12/2006	09/12/2006	K0911W02	
Toluene	ND	U	0.13	0.50	1	09/12/2006	09/12/2006	K0911W02	
trans-1,3-Dichloropropene	ND	U	0.090	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,2-Trichloroethane	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
Tetrachloroethene (PCE)	ND	U	0.090	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,3-Dichloropropane	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
2-Hexanone	ND	U	0.49	10	1	09/12/2006	09/12/2006	K0911W02	
Dibromochloromethane	ND	U	0.12	1.0	1	09/12/2006	09/12/2006	K0911W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0911W02
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MDL	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.19	1.0	1	09/12/2006	09/12/2006	K0911W02	
Chlorobenzene	ND	U	0.12	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,1,1,2-Tetrachloroethane	ND	U	0.19	0.50	1	09/12/2006	09/12/2006	K0911W02	
Ethylbenzene	ND	U	0.11	0.50	1	09/12/2006	09/12/2006	K0911W02	
Xylenes, Total	ND	U	0.10	1.5	1	09/12/2006	09/12/2006	K0911W02	
Styrene	ND	U	0.070	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromoform	ND	U	0.18	1.0	1	09/12/2006	09/12/2006	K0911W02	
Isopropylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,1,2,2-Tetrachloroethane	ND	U	0.20	0.50	1	09/12/2006	09/12/2006	K0911W02	
Bromobenzene	ND	U	0.13	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,3-Trichloropropane	ND	U	0.20	0.50	1	09/12/2006	09/12/2006	K0911W02	
n-Propylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
2-Chlorotoluene	ND	U	0.11	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,3,5-Trimethylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
4-Chlorotoluene	ND	U	0.14	1.0	1	09/12/2006	09/12/2006	K0911W02	
tert-Butylbenzene	ND	U	0.080	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,4-Trimethylbenzene	ND	U	0.080	1.0	1	09/12/2006	09/12/2006	K0911W02	
sec-Butylbenzene	ND	U	0.090	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,3-Dichlorobenzene	ND	U	0.15	0.50	1	09/12/2006	09/12/2006	K0911W02	
4-Isopropyltoluene	ND	U	0.060	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,4-Dichlorobenzene	ND	U	0.14	0.50	1	09/12/2006	09/12/2006	K0911W02	
n-Butylbenzene	ND	U	0.10	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dichlorobenzene	ND	U	0.12	0.50	1	09/12/2006	09/12/2006	K0911W02	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.95	2.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,4-Trichlorobenzene	ND	U	0.11	1.0	1	09/12/2006	09/12/2006	K0911W02	
Hexachlorobutadiene	ND	U	0.26	1.0	1	09/12/2006	09/12/2006	K0911W02	
Naphthalene	ND	U	0.10	1.0	1	09/12/2006	09/12/2006	K0911W02	
1,2,3-Trichlorobenzene	ND	U	0.15	1.0	1	09/12/2006	09/12/2006	K0911W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene - SS	98	82-124	09/12/2006	
Dibromofluoromethane - SS	112	84-127	09/12/2006	
Toluene-d8 - SS	104	80-117	09/12/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY
Sample Matrix: Water

Service Request: D0601258

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3
Laboratory Control Sample	K0905W01LCS		95	103	99
Laboratory Control Sample Duplicate	K0905W01LCSD		99	106	99
Method Blank	K0905W01		107	111	99
MWCL-1	D0601258-001		100	117	97
MWCL-2	D0601258-002		94	119	99
MWCL-4	D0601258-004		102	121	98
Laboratory Control Sample	K0906W01LCS		92	102	103
Laboratory Control Sample Duplicate	K0906W01LCSD		91	106	102
Method Blank	K0906W01		111	111	100
MWCL-3	D0601258-003		105	124	99
MWCL-5	D0601258-005		101	117	98
QCEB1	D0601258-009		95	117	95
QCEB2	D0601258-010		98	114	94
QCTB1	D0601258-011		98	119	92
QCTB2	D0601258-012		95	114	95
Method Blank	K0911W02		98	112	104
B120-MW5	D0601258-007		100	108	103
B120-MW4	D0601258-008		100	110	101
MWCL-6	D0601258-006		98	110	104
Laboratory Control Sample	K0911W02LCS		96	108	103
Laboratory Control Sample Duplicate	K0911W02LCSD		97	107	105

Surrogate Recovery Control Limits (%)

S1:	4-Bromofluorobenzene - SS	82-124
S2:	Dibromofluoromethane - SS	84-127
S3:	Toluene-d8 - SS	80-117

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	09/05/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K0905W01LCS / K0905W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	8.61	8.89	86	89	27-158	3	
Chloromethane	1.0	10.0	8.03	8.72	80	87	51-137	8	
Vinyl Chloride	0.50	10.0	9.10	9.91	91	99	57-137	8	
Bromomethane	1.0	10.0	9.65	10.6	96	106	44-156	9	
Chloroethane	1.0	10.0	9.73	10.6	97	106	60-140	8	
Trichlorofluoromethane (CFC 11)	1.0	10.0	10.4	10.7	104	107	54-146	3	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	9.95	10.5	100	105	67-139	5	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	11.5	11.8	115	118	70-130	2	
Acetone	10	50.0	48.4	53.7	97	107	55-137	10	
Carbon Disulfide	2.0	10.0	10.4	11.1	104	111	50-127	6	
Dichloromethane (Methylene Chloride)	2.0	10.0	10.1	10.8	101	108	73-121	7	
trans-1,2-Dichloroethene	0.50	10.0	9.76	10.4	98	104	74-124	6	
Methyl tert-Butyl Ether	2.0	10.0	9.73	10.2	97	102	75-119	5	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	9.85	10.5	98	105	78-121	6	
Vinyl Acetate	10	10.0	9.69	10.4	97	104	52-129	7	
2,2-Dichloropropane	0.50	10.0	10.4	10.6	104	106	61-137	2	
cis-1,2-Dichloroethene	0.50	10.0	10.4	10.6	104	106	80-118	2	
2-Butanone (MEK)	10	50.0	45.4	47.5	91	95	76-122	4	
Bromochloromethane	0.50	10.0	9.80	10.2	98	102	82-118	4	
Chloroform	0.50	10.0	9.62	10.0	96	100	73-125	4	
1,1,1-Trichloroethane (TCA)	0.50	10.0	10.1	10.4	101	104	76-124	3	
1,1-Dichloropropene	0.50	10.0	10.3	10.9	103	109	80-119	6	
Carbon Tetrachloride	0.50	10.0	10.6	11.0	106	110	68-135	4	
Benzene	0.50	10.0	9.88	10.2	99	102	81-119	3	
1,2-Dichloroethane (EDC)	0.50	10.0	10.4	10.8	104	108	75-122	4	
Trichloroethene (TCE)	0.50	10.0	9.35	10.1	94	101	79-118	8	
1,2-Dichloropropane	0.50	10.0	9.62	10.3	96	103	82-115	7	
Dibromomethane	0.50	10.0	9.59	9.98	96	100	84-116	4	
Bromodichloromethane	1.0	10.0	9.79	10.5	98	105	81-122	7	
cis-1,3-Dichloropropene	0.50	10.0	9.68	10.4	97	104	78-118	7	
4-Methyl-2-pentanone (MIBK)	10	50.0	46.2	49.5	92	99	81-127	7	
Toluene	0.50	10.0	9.53	9.47	95	95	83-116	1	
trans-1,3-Dichloropropene	0.50	10.0	10.0	10.2	100	102	73-122	2	
1,1,2-Trichloroethane	0.50	10.0	9.70	9.88	97	99	83-120	2	
Tetrachloroethene (PCE)	0.50	10.0	10.2	10.2	102	102	82-118	0	
1,3-Dichloropropane	0.50	10.0	9.87	10.1	99	101	82-119	2	
2-Hexanone	10	50.0	48.1	48.0	96	96	81-130	0	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	09/05/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K0905W01LCS / K0905W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	9.97	10.3	100	103	79-124	3	
1,2-Dibromoethane (EDB)	1.0	10.0	9.50	9.98	95	100	82-116	5	
Chlorobenzene	0.50	10.0	9.56	10.0	96	100	86-114	4	
1,1,1,2-Tetrachloroethane	0.50	10.0	9.99	10.4	100	104	79-122	4	
Ethylbenzene	0.50	10.0	9.33	9.86	93	99	86-116	6	
Xylenes, Total	1.5	30.0	28.2	29.5	94	98	85-117	4	
Styrene	0.50	10.0	9.39	9.74	94	97	84-119	4	
Bromoform	1.0	10.0	10.3	10.5	103	105	71-133	2	
Isopropylbenzene	1.0	10.0	9.50	9.73	95	97	77-117	2	
1,1,2,2-Tetrachloroethane	0.50	10.0	9.38	10.1	94	101	80-117	7	
Bromobenzene	1.0	10.0	9.40	10.2	94	102	84-120	8	
1,2,3-Trichloropropane	0.50	10.0	9.59	10.5	96	105	81-122	9	
n-Propylbenzene	1.0	10.0	9.10	9.79	91	98	87-117	7	
2-Chlorotoluene	1.0	10.0	9.15	9.98	92	100	87-119	9	
1,3,5-Trimethylbenzene	1.0	10.0	9.54	10.4	95	104	83-120	9	
4-Chlorotoluene	1.0	10.0	9.13	9.82	91	98	86-118	7	
tert-Butylbenzene	1.0	10.0	9.25	10.2	92	102	82-122	10	
1,2,4-Trimethylbenzene	1.0	10.0	9.43	10.2	94	102	86-121	8	
sec-Butylbenzene	1.0	10.0	9.68	10.2	97	102	84-128	5	
1,3-Dichlorobenzene	0.50	10.0	9.45	10.0	94	100	85-119	6	
4-Isopropyltoluene	1.0	10.0	9.57	9.99	96	100	84-121	4	
1,4-Dichlorobenzene	0.50	10.0	9.66	10.0	97	100	84-118	3	
n-Butylbenzene	1.0	10.0	8.99	9.54	90	95	81-123	6	
1,2-Dichlorobenzene	0.50	10.0	9.68	10.2	97	102	85-117	5	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	50.0	36.7	39.1	73	78	67-121	6	
1,2,4-Trichlorobenzene	1.0	10.0	9.26	9.74	93	97	69-128	5	
Hexachlorobutadiene	1.0	10.0	9.92	10.2	99	102	71-135	3	
Naphthalene	1.0	10.0	9.06	9.66	91	97	60-131	6	
1,2,3-Trichlorobenzene	1.0	10.0	9.35	9.98	94	100	69-130	6	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	09/06/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K0906W01LCS / K0906W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	8.12	8.22	81	82	27-158	1	
Chloromethane	1.0	10.0	8.58	9.39	86	94	51-137	9	
Vinyl Chloride	0.50	10.0	10.1	10.3	101	103	57-137	2	
Bromomethane	1.0	10.0	10.3	10.9	103	109	44-156	6	
Chloroethane	1.0	10.0	11.0	11.3	110	113	60-140	3	
Trichlorofluoromethane (CFC 11)	1.0	10.0	10.3	10.8	103	108	54-146	5	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	9.88	10.1	99	101	67-139	2	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	11.0	11.4	110	114	70-130	4	
Acetone	10	50.0	54.6	54.7	109	109	55-137	0	
Carbon Disulfide	2.0	10.0	10.5	11.2	105	112	50-127	6	
Dichloromethane (Methylene Chloride)	2.0	10.0	10.3	10.8	103	108	73-121	5	
trans-1,2-Dichloroethene	0.50	10.0	9.86	10.2	99	102	74-124	3	
Methyl tert-Butyl Ether	2.0	10.0	9.52	9.83	95	98	75-119	3	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	10.4	10.8	104	108	78-121	4	
Vinyl Acetate	10	10.0	10.1	10.2	101	102	52-129	1	
2,2-Dichloropropane	0.50	10.0	9.84	9.80	98	98	61-137	0	
cis-1,2-Dichloroethene	0.50	10.0	10.2	10.2	102	102	80-118	0	
2-Butanone (MEK)	10	50.0	47.9	47.6	96	95	76-122	1	
Bromochloromethane	0.50	10.0	9.83	9.96	98	100	82-118	1	
Chloroform	0.50	10.0	9.54	9.71	95	97	73-125	2	
1,1,1-Trichloroethane (TCA)	0.50	10.0	9.71	9.99	97	100	76-124	3	
1,1-Dichloropropene	0.50	10.0	9.93	10.4	99	104	80-119	5	
Carbon Tetrachloride	0.50	10.0	10.3	10.5	103	105	68-135	2	
Benzene	0.50	10.0	9.93	10.1	99	101	81-119	2	
1,2-Dichloroethane (EDC)	0.50	10.0	10.7	10.7	107	107	75-122	0	
Trichloroethene (TCE)	0.50	10.0	9.09	9.64	91	96	79-118	6	
1,2-Dichloropropane	0.50	10.0	9.92	10.1	99	101	82-115	2	
Dibromomethane	0.50	10.0	9.70	9.67	97	97	84-116	0	
Bromodichloromethane	1.0	10.0	9.61	9.99	96	100	81-122	4	
cis-1,3-Dichloropropene	0.50	10.0	9.72	9.68	97	97	78-118	0	
4-Methyl-2-pentanone (MIBK)	10	50.0	50.4	49.6	101	99	81-127	2	
Toluene	0.50	10.0	9.58	10.2	96	102	83-116	6	
trans-1,3-Dichloropropene	0.50	10.0	10.3	10.5	103	105	73-122	2	
1,1,2-Trichloroethane	0.50	10.0	10.4	10.4	104	104	83-120	0	
Tetrachloroethene (PCE)	0.50	10.0	10.2	10.6	102	106	82-118	4	
1,3-Dichloropropane	0.50	10.0	10.7	10.8	107	108	82-119	1	
2-Hexanone	10	50.0	53.6	52.3	107	105	81-130	2	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	09/06/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K0906W01LCS / K0906W01LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	10.5	10.3	105	103	79-124	2	
1,2-Dibromoethane (EDB)	1.0	10.0	10.1	10.3	101	103	82-116	2	
Chlorobenzene	0.50	10.0	9.74	10.2	97	102	86-114	5	
1,1,1,2-Tetrachloroethane	0.50	10.0	10.5	10.9	105	109	79-122	4	
Ethylbenzene	0.50	10.0	9.56	10.2	96	102	86-116	6	
Xylenes, Total	1.5	30.0	28.8	30.2	96	101	85-117	5	
Styrene	0.50	10.0	9.58	10.1	96	101	84-119	5	
Bromoform	1.0	10.0	10.3	10.2	103	102	71-133	1	
Isopropylbenzene	1.0	10.0	9.39	10.1	94	101	77-117	7	
1,1,2,2-Tetrachloroethane	0.50	10.0	10.6	10.0	106	100	80-117	6	
Bromobenzene	1.0	10.0	9.72	9.35	97	94	84-120	4	
1,2,3-Trichloropropane	0.50	10.0	10.5	10.3	105	103	81-122	2	
n-Propylbenzene	1.0	10.0	9.35	9.35	94	94	87-117	0	
2-Chlorotoluene	1.0	10.0	10.0	10.3	100	103	87-119	3	
1,3,5-Trimethylbenzene	1.0	10.0	9.70	10.1	97	101	83-120	4	
4-Chlorotoluene	1.0	10.0	9.78	9.79	98	98	86-118	0	
tert-Butylbenzene	1.0	10.0	9.83	9.84	98	98	82-122	0	
1,2,4-Trimethylbenzene	1.0	10.0	9.91	9.98	99	100	86-121	1	
sec-Butylbenzene	1.0	10.0	10.1	10.2	101	102	84-128	1	
1,3-Dichlorobenzene	0.50	10.0	10.1	9.98	101	100	85-119	1	
4-Isopropyltoluene	1.0	10.0	9.64	9.85	96	98	84-121	2	
1,4-Dichlorobenzene	0.50	10.0	9.95	10.2	100	102	84-118	2	
n-Butylbenzene	1.0	10.0	9.12	9.59	91	96	81-123	5	
1,2-Dichlorobenzene	0.50	10.0	10.1	10.2	101	102	85-117	1	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	50.0	40.1	38.1	80	76	67-121	5	
1,2,4-Trichlorobenzene	1.0	10.0	8.97	9.36	90	94	69-128	4	
Hexachlorobutadiene	1.0	10.0	9.43	9.92	94	99	71-135	5	
Naphthalene	1.0	10.0	8.92	8.99	89	90	60-131	1	
1,2,3-Trichlorobenzene	1.0	10.0	9.10	9.58	91	96	69-130	5	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	09/12/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K0911W02LCS / K0911W02LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dichlorodifluoromethane (CFC 12)	1.0	10.0	14.6	14.3	146	143	27-158	2	
Chloromethane	1.0	10.0	12.5	12.4	125	124	51-137	1	
Vinyl Chloride	0.50	10.0	13.0	13.0	130	130	57-137	0	
Bromomethane	1.0	10.0	12.3	12.8	123	128	44-156	4	
Chloroethane	1.0	10.0	12.1	12.3	121	123	60-140	2	
Trichlorofluoromethane (CFC 11)	1.0	10.0	11.1	11.3	111	113	54-146	2	
1,1,2-Trichlorotrifluoroethane	2.0	10.0	10.5	10.4	105	104	67-139	1	
1,1-Dichloroethene (1,1-DCE)	0.50	10.0	11.8	11.8	118	118	70-130	0	
Acetone	10	50.0	52.4	53.0	105	106	55-137	1	
Carbon Disulfide	2.0	10.0	11.8	11.9	118	119	50-127	1	
Dichloromethane (Methylene Chloride)	2.0	10.0	10.7	10.9	107	109	73-121	2	
trans-1,2-Dichloroethene	0.50	10.0	9.92	10.3	99	103	74-124	4	
Methyl tert-Butyl Ether	2.0	10.0	9.72	9.86	97	99	75-119	1	
1,1-Dichloroethane (1,1-DCA)	0.50	10.0	10.8	10.7	108	107	78-121	1	
Vinyl Acetate	10	10.0	11.2	11.3	112	113	52-129	1	
2,2-Dichloropropane	0.50	10.0	10.5	10.5	105	105	61-137	0	
cis-1,2-Dichloroethene	0.50	10.0	10.4	10.5	104	105	80-118	1	
2-Butanone (MEK)	10	50.0	50.6	51.8	101	104	76-122	2	
Bromochloromethane	0.50	10.0	10.2	10.0	102	100	82-118	2	
Chloroform	0.50	10.0	9.81	9.82	98	98	73-125	0	
1,1,1-Trichloroethane (TCA)	0.50	10.0	9.99	10.0	100	100	76-124	0	
1,1-Dichloropropene	0.50	10.0	10.9	10.7	109	107	80-119	2	
Carbon Tetrachloride	0.50	10.0	10.1	10.1	101	101	68-135	0	
Benzene	0.50	10.0	10.3	10.4	103	104	81-119	1	
1,2-Dichloroethane (EDC)	0.50	10.0	10.6	10.6	106	106	75-122	0	
Trichloroethene (TCE)	0.50	10.0	10.1	10.0	101	100	79-118	1	
1,2-Dichloropropane	0.50	10.0	10.7	10.4	107	104	82-115	3	
Dibromomethane	0.50	10.0	9.97	9.87	100	99	84-116	1	
Bromodichloromethane	1.0	10.0	10.2	10.1	102	101	81-122	1	
cis-1,3-Dichloropropene	0.50	10.0	10.4	10.4	104	104	78-118	0	
4-Methyl-2-pentanone (MIBK)	10	50.0	50.6	51.5	101	103	81-127	2	
Toluene	0.50	10.0	9.76	9.77	98	98	83-116	0	
trans-1,3-Dichloropropene	0.50	10.0	10.2	10.4	102	104	73-122	2	
1,1,2-Trichloroethane	0.50	10.0	10.2	10.2	102	102	83-120	0	
Tetrachloroethene (PCE)	0.50	10.0	9.90	10.0	99	100	82-118	1	
1,3-Dichloropropane	0.50	10.0	10.5	10.7	105	107	82-119	2	
2-Hexanone	10	50.0	50.6	52.2	101	104	81-130	3	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	09/12/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	K0911W02LCS / K0911W02LCSD	**Units:**	ug/L (ppb)
Extraction	SW5030		
Analysis Method:	SW8260		

Analyte	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Dibromochloromethane	1.0	10.0	9.78	9.96	98	100	79-124	2	
1,2-Dibromoethane (EDB)	1.0	10.0	9.99	10.2	100	102	82-116	2	
Chlorobenzene	0.50	10.0	9.83	9.87	98	99	86-114	0	
1,1,1,2-Tetrachloroethane	0.50	10.0	9.90	9.98	99	100	79-122	1	
Ethylbenzene	0.50	10.0	9.91	10.0	99	100	86-116	1	
Xylenes, Total	1.5	30.0	29.0	29.5	97	98	85-117	2	
Styrene	0.50	10.0	9.67	9.71	97	97	84-119	0	
Bromoform	1.0	10.0	9.21	9.41	92	94	71-133	2	
Isopropylbenzene	1.0	10.0	9.55	9.74	96	97	77-117	2	
1,1,2,2-Tetrachloroethane	0.50	10.0	10.8	10.9	108	109	80-117	1	
Bromobenzene	1.0	10.0	9.71	9.54	97	95	84-120	2	
1,2,3-Trichloropropane	0.50	10.0	10.4	10.3	104	103	81-122	1	
n-Propylbenzene	1.0	10.0	9.50	9.22	95	92	87-117	3	
2-Chlorotoluene	1.0	10.0	9.53	9.79	95	98	87-119	3	
1,3,5-Trimethylbenzene	1.0	10.0	8.84	9.05	88	90	83-120	2	
4-Chlorotoluene	1.0	10.0	9.74	9.85	97	98	86-118	1	
tert-Butylbenzene	1.0	10.0	9.62	9.60	96	96	82-122	0	
1,2,4-Trimethylbenzene	1.0	10.0	9.70	9.60	97	96	86-121	1	
sec-Butylbenzene	1.0	10.0	9.88	9.70	99	97	84-128	2	
1,3-Dichlorobenzene	0.50	10.0	9.64	9.53	96	95	85-119	1	
4-Isopropyltoluene	1.0	10.0	9.34	9.40	93	94	84-121	1	
1,4-Dichlorobenzene	0.50	10.0	9.55	9.61	96	96	84-118	1	
n-Butylbenzene	1.0	10.0	8.97	8.82	90	88	81-123	2	
1,2-Dichlorobenzene	0.50	10.0	9.56	9.62	96	96	85-117	1	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	50.0	40.5	40.1	81	80	67-121	1	
1,2,4-Trichlorobenzene	1.0	10.0	8.57	8.58	86	86	69-128	0	
Hexachlorobutadiene	1.0	10.0	8.46	8.14	85	81	71-135	4	
Naphthalene	1.0	10.0	8.60	8.77	86	88	60-131	2	
1,2,3-Trichlorobenzene	1.0	10.0	8.45	8.26	84	83	69-130	2	

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601258

Cover Page - Organic Analysis Data Package
Fuel Characterization by GC/FID

Sample Name	Lab Code	Date Collected	Date Received
MWCL-1	D0601258-001	08/31/2006	09/02/2006
MWCL-2	D0601258-002	08/31/2006	09/02/2006
MWCL-3	D0601258-003	08/31/2006	09/02/2006
MWCL-4	D0601258-004	08/31/2006	09/02/2006
MWCL-5	D0601258-005	09/01/2006	09/02/2006
MWCL-6	D0601258-006	08/31/2006	09/02/2006
B120-MW5	D0601258-007	09/01/2006	09/02/2006
B120-MW4	D0601258-008	09/01/2006	09/02/2006
QCEB	D0601258-009	08/31/2006	09/02/2006
QCEB	D0601258-010	09/01/2006	09/02/2006
MWCL-1MS	LWG0600749-1	08/31/2006	09/02/2006
MWCL-1DMS	LWG0600749-2	08/31/2006	09/02/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang

Name: WIDA ANG

Date: 9/9/06

Title: Organic Manager

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Collected:**	08/31/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

Fuel Characterization by GC/FID

Sample Name:	MWCL-1	**Units:**	mg/L
Lab Code:	D0601258-001	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/06/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/06/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/06/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	106	50-140	09/06/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Collected:**	08/31/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

Fuel Characterization by GC/FID

Sample Name:	MWCL-2	**Units:**	mg/L
Lab Code:	D0601258-002	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/06/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/06/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/06/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	105	50-140	09/06/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Collected:**	08/31/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

Fuel Characterization by GC/FID

Sample Name:	MWCL-3	**Units:**	mg/L
Lab Code:	D0601258-003	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/06/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/06/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/06/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	103	50-140	09/06/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Collected:**	08/31/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

Fuel Characterization by GC/FID

Sample Name:	MWCL-4	**Units:**	mg/L
Lab Code:	D0601258-004	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/07/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	102	50-140	09/07/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Collected:**	09/01/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

Fuel Characterization by GC/FID

Sample Name:	MWCL-5	**Units:**	mg/L
Lab Code:	D0601258-005	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/07/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	109	50-140	09/07/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Collected:**	08/31/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

Fuel Characterization by GC/FID

Sample Name:	MWCL-6	**Units:**	mg/L
Lab Code:	D0601258-006	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	
Diesel	**0.53**	J	1.0	0.44	1	09/06/06	09/07/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	111	50-140	09/07/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Fuel Characterization by GC/FID

Sample Name: B120-MW5
Lab Code: D0601258-007

Units: mg/L
Basis: NA

Extraction Method: EPA 3510M
Analysis Method: 8015B

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/07/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	113	50-140	09/07/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Collected:**	09/01/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

Fuel Characterization by GC/FID

Sample Name:	B120-MW4	**Units:**	mg/L
Lab Code:	D0601258-008	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/07/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	111	50-140	09/07/06	Acceptable

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Collected:**	08/31/2006
Sample Matrix:	Water	**Date Received:**	09/02/2006

Fuel Characterization by GC/FID

Sample Name:	QCEB	**Units:**	mg/L
Lab Code:	D0601258-009	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/07/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	112	50-140	09/07/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Fuel Characterization by GC/FID

Sample Name: QCEB
Lab Code: D0601258-010

Extraction Method: EPA 3510M
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/07/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/07/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	106	50-140	09/07/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Fuel Characterization by GC/FID

Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	LWG0600749-4	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	1.0	0.50	1	09/06/06	09/06/06	LWG0600749	
Diesel	ND	U	1.0	0.44	1	09/06/06	09/06/06	LWG0600749	
Motor Oil	ND	U	1.0	0.50	1	09/06/06	09/06/06	LWG0600749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane	108	50-140	09/06/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258

Surrogate Recovery Summary
Fuel Characterization by GC/FID

Extraction Method: EPA 3510M
Analysis Method: 8015B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MWCL-1	D0601258-001	106
MWCL-2	D0601258-002	105
MWCL-3	D0601258-003	103
MWCL-4	D0601258-004	102
MWCL-5	D0601258-005	109
MWCL-6	D0601258-006	111
B120-MW5	D0601258-007	113
B120-MW4	D0601258-008	111
QCEB	D0601258-009	112
QCEB	D0601258-010	106
Method Blank	LWG0600749-4	108
MWCL-1MS	LWG0600749-1	106
MWCL-1DMS	LWG0600749-2	104
Lab Control Sample	LWG0600749-3	108

Surrogate Recovery Control Limits (%)

Sur1 = Octacosane	50-140

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Extracted:**	09/06/2006
Sample Matrix:	Water	**Date Analyzed:**	09/06/2006

Matrix Spike/Duplicate Matrix Spike Summary
Fuel Characterization by GC/FID

Sample Name:	MWCL-1	**Units:**	mg/L
Lab Code:	D0601258-001	**Basis:**	NA
Extraction Method:	EPA 3510M	**Level:**	Low
Analysis Method:	8015B	**Extraction Lot:**	LWG0600749

Analyte Name	Sample Result	MWCL-1MS LWG0600749-1 Matrix Spike			MWCL-1DMS LWG0600749-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Diesel	ND	25.6	30.0	85	25.7	30.0	86	50-130	0	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	D0601258
Project:	TDY/SC0307	**Date Extracted:**	09/06/2006
Sample Matrix:	Water	**Date Analyzed:**	09/06/2006

Lab Control Spike Summary
Fuel Characterization by GC/FID

Extraction Method:	EPA 3510M	**Units:**	mg/L
Analysis Method:	8015B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	LWG0600749

	Lab Control Sample LWG0600749-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Diesel	27.5	30.0	92	50-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Service Request: D0601258

Cover Page - Organic Analysis Data Package
Semivolatile Organic Compounds by EPA Method 8270C

Sample Name	Lab Code	Date Collected	Date Received
MWCL-1	D0601258-001	08/31/2006	09/02/2006
MWCL-2	D0601258-002	08/31/2006	09/02/2006
MWCL-3	D0601258-003	08/31/2006	09/02/2006
MWCL-4	D0601258-004	08/31/2006	09/02/2006
MWCL-5	D0601258-005	09/01/2006	09/02/2006
MWCL-6	D0601258-006	08/31/2006	09/02/2006
B120-MW5	D0601258-007	09/01/2006	09/02/2006
B120-MW4	D0601258-008	09/01/2006	09/02/2006
QCEB	D0601258-009	08/31/2006	09/02/2006
QCEB	D0601258-010	09/01/2006	09/02/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Gina Johnson
Name: Gina Johnson
Date: 9/13/06
Title: Chemist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-1
Lab Code: D0601258-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	**3.2**		2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	9.9	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	50	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	4.0	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	5.0	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	5.0	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	5.0	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	50	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	ND	U	5.0	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	5.0	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	5.0	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	5.0	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-1
Lab Code: D0601258-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	50	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	9.9	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	**0.51**	J	5.0	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.30**	J	5.0	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	5.0	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	9.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	9.9	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	9.9	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	5.0	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	5.0	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	30	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	5.0	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	5.0	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-1
Lab Code: D0601258-001

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.9	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	62	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	57	47-110	09/11/06	Acceptable
2-Fluorophenol	50	23-115	09/11/06	Acceptable
Nitrobenzene-d5	58	42-122	09/11/06	Acceptable
Phenol-d5	52	23-121	09/11/06	Acceptable
Terphenyl-d14	73	37-130	09/11/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-2
Lab Code: D0601258-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	ND	U	2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	48	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	3.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	4.8	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	4.8	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	48	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	ND	U	4.8	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	4.8	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	4.8	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-2
Lab Code: D0601258-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	48	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	9.6	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	**0.42**	J	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.28**	J	4.8	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	9.6	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	9.6	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	29	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	4.8	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	4.8	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-2
Lab Code: D0601258-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	95	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	92	47-110	09/11/06	Acceptable
2-Fluorophenol	79	23-115	09/11/06	Acceptable
Nitrobenzene-d5	94	42-122	09/11/06	Acceptable
Phenol-d5	84	23-121	09/11/06	Acceptable
Terphenyl-d14	118	37-130	09/11/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-3
Lab Code: D0601258-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	4.9	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	4.9	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	4.9	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	ND	U	2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	4.9	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	4.9	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	9.8	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	49	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	3.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	4.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	4.9	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	4.9	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	4.9	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	4.9	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	49	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	ND	U	4.9	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	4.9	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	4.9	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	4.9	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-3
Lab Code: D0601258-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.9	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	4.9	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	49	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	9.8	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	**0.85**	**J**	4.9	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	4.9	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.38**	**J**	4.9	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	4.9	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	4.9	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	4.9	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	9.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	9.8	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	9.8	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	4.9	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	4.9	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	4.9	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	4.9	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	4.9	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	30	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	4.9	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	4.9	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-3
Lab Code: D0601258-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.8	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	68	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	63	47-110	09/11/06	Acceptable
2-Fluorophenol	56	23-115	09/11/06	Acceptable
Nitrobenzene-d5	67	42-122	09/11/06	Acceptable
Phenol-d5	59	23-121	09/11/06	Acceptable
Terphenyl-d14	74	37-130	09/11/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-4
Lab Code: D0601258-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	ND	U	2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	48	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	3.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	4.8	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	4.8	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	48	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	ND	U	4.8	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	4.8	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	4.8	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-4
Lab Code: D0601258-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	48	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	9.6	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.28**	J	4.8	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	9.6	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	9.6	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	29	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	4.8	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	4.8	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-4
Lab Code: D0601258-004

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	84	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	85	47-110	09/11/06	Acceptable
2-Fluorophenol	75	23-115	09/11/06	Acceptable
Nitrobenzene-d5	90	42-122	09/11/06	Acceptable
Phenol-d5	77	23-121	09/11/06	Acceptable
Terphenyl-d14	118	37-130	09/11/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-5
Lab Code: D0601258-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	4.9	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	4.9	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	4.9	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	**0.80**	J	2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	4.9	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	4.9	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	9.7	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	49	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	3.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	4.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	4.9	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	4.9	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	4.9	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	4.9	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	49	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	**0.36**	J	4.9	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	4.9	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	4.9	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	4.9	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-5
Lab Code: D0601258-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.9	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	4.9	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	49	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	9.7	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	**1.2**	J	4.9	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	4.9	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.98**	J	4.9	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	4.9	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	4.9	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	4.9	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	9.7	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	9.7	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	9.7	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	4.9	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	4.9	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	4.9	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	4.9	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	4.9	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	29	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	4.9	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	4.9	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-5
Lab Code: D0601258-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.7	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	93	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	82	47-110	09/11/06	Acceptable
2-Fluorophenol	73	23-115	09/11/06	Acceptable
Nitrobenzene-d5	88	42-122	09/11/06	Acceptable
Phenol-d5	79	23-121	09/11/06	Acceptable
Terphenyl-d14	89	37-130	09/11/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-6
Lab Code: D0601258-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	**2.3**		2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	48	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	3.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	4.8	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	4.8	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	48	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	**13**		4.8	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	**0.33**	J	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	4.8	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	4.8	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-6
Lab Code: D0601258-006

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	48	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	9.6	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.32**	J	4.8	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	**1.8**	J	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	9.6	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	9.6	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	29	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	4.8	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	**2.9**	J	4.8	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: MWCL-6
Lab Code: D0601258-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	88	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	82	47-110	09/11/06	Acceptable
2-Fluorophenol	74	23-115	09/11/06	Acceptable
Nitrobenzene-d5	87	42-122	09/11/06	Acceptable
Phenol-d5	79	23-121	09/11/06	Acceptable
Terphenyl-d14	105	37-130	09/11/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: B120-MW5
Lab Code: D0601258-007

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	4.9	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	4.9	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	4.9	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	ND	U	2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	4.9	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	4.9	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	9.7	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	49	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	3.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	4.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	4.9	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	4.9	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	4.9	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	4.9	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	49	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	ND	U	4.9	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	4.9	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	4.9	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	4.9	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: B120-MW5
Lab Code: D0601258-007

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.9	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	4.9	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	49	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	9.7	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	4.9	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	4.9	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	**1.1**	**J**	4.9	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	4.9	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.37**	**J**	4.9	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	4.9	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	4.9	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	4.9	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	9.7	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	9.7	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	9.7	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	4.9	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	4.9	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	4.9	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	4.9	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	4.9	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	4.9	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	4.9	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	29	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	4.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	4.9	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	4.9	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: B120-MW5
Lab Code: D0601258-007

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.7	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	84	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	83	47-110	09/11/06	Acceptable
2-Fluorophenol	69	23-115	09/11/06	Acceptable
Nitrobenzene-d5	86	42-122	09/11/06	Acceptable
Phenol-d5	73	23-121	09/11/06	Acceptable
Terphenyl-d14	113	37-130	09/11/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: B120-MW4
Lab Code: D0601258-008

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	6.7	0.38	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	6.7	0.27	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	6.7	0.23	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	6.7	0.27	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	6.7	0.32	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	ND	U	2.7	0.55	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	6.7	0.38	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	6.7	0.36	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	6.7	0.31	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	14	1.2	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	67	14	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	5.4	0.40	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	6.7	0.40	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	6.7	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	6.7	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	27	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	6.7	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	6.7	0.43	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	27	0.36	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	6.7	0.35	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	27	1.2	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	27	0.39	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	6.7	0.24	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	6.7	0.43	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	6.7	0.48	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	6.7	0.28	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	27	0.48	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	67	27	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	ND	U	6.7	0.20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	6.7	0.31	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	6.7	0.46	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	6.7	0.28	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	6.7	0.28	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	6.7	0.72	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: B120-MW4
Lab Code: D0601258-008

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	6.7	0.56	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	6.7	0.99	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	6.7	0.43	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	67	27	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	14	0.30	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	6.7	0.43	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	6.7	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	6.7	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	**5.3**	**J**	6.7	0.40	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	6.7	0.64	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	6.7	0.30	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.44**	**J**	6.7	0.34	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	6.7	0.44	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	6.7	0.83	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	6.7	0.30	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	6.7	0.38	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	6.7	0.35	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	6.7	0.28	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	6.7	0.30	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.7	0.28	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	14	0.30	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	14	2.4	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	14	3.4	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	6.7	0.87	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	6.7	0.40	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	6.7	0.38	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	6.7	0.64	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	6.7	0.31	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	6.7	0.28	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	6.7	0.35	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	40	0.84	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	6.7	0.30	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	6.7	0.15	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	6.7	0.44	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: B120-MW4
Lab Code: D0601258-008

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	14	0.44	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	84	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	80	47-110	09/11/06	Acceptable
2-Fluorophenol	69	23-115	09/11/06	Acceptable
Nitrobenzene-d5	83	42-122	09/11/06	Acceptable
Phenol-d5	74	23-121	09/11/06	Acceptable
Terphenyl-d14	98	37-130	09/11/06	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: QCEB
Lab Code: D0601258-009

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	ND	U	2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	9.9	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	50	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	4.0	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	5.0	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	5.0	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	5.0	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	50	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	ND	U	5.0	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	5.0	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	5.0	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	5.0	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: QCEB
Lab Code: D0601258-009

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	5.0	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	50	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	9.9	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	**0.99**	**J**	5.0	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.28**	**J**	5.0	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	5.0	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	9.9	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	9.9	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	9.9	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	5.0	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	5.0	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	30	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	5.0	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	5.0	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 08/31/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: QCEB
Lab Code: D0601258-009

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.9	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	81	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	85	47-110	09/11/06	Acceptable
2-Fluorophenol	75	23-115	09/11/06	Acceptable
Nitrobenzene-d5	90	42-122	09/11/06	Acceptable
Phenol-d5	78	23-121	09/11/06	Acceptable
Terphenyl-d14	115	37-130	09/11/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: QCEB
Lab Code: D0601258-010

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	4.8	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	4.8	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	4.8	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	ND	U	2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	4.8	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	9.6	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	48	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	3.9	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	4.8	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	4.8	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	4.8	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	48	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	ND	U	4.8	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	4.8	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	ND	U	4.8	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: QCEB
Lab Code: D0601258-010

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	ND	U	4.8	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	4.8	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	48	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	9.6	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	4.8	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	4.8	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	4.8	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	ND	U	4.8	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	4.8	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	4.8	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	9.6	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	9.6	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	9.6	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	4.8	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	4.8	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	4.8	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	4.8	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	4.8	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	4.8	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	4.8	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	29	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	4.8	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	4.8	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	4.8	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: 09/01/2006
Date Received: 09/02/2006

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: QCEB
Lab Code: D0601258-010

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	9.6	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	68	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	76	47-110	09/11/06	Acceptable
2-Fluorophenol	67	23-115	09/11/06	Acceptable
Nitrobenzene-d5	78	42-122	09/11/06	Acceptable
Phenol-d5	69	23-121	09/11/06	Acceptable
Terphenyl-d14	100	37-130	09/11/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: LWG0600758-3

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Methylphenol	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
1,2,4-Trichlorobenzene	ND	U	5.0	0.20	1	09/06/06	09/11/06	LWG0600758	
1,2-Dichlorobenzene	ND	U	5.0	0.17	1	09/06/06	09/11/06	LWG0600758	
1,3-Dichlorobenzene	ND	U	5.0	0.20	1	09/06/06	09/11/06	LWG0600758	
1,4-Dichlorobenzene	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
1,4-Dioxane	ND	U	2.0	0.41	1	09/06/06	09/11/06	LWG0600758	
2,4,5-Trichlorophenol	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
2,4,6-Trichlorophenol	ND	U	5.0	0.27	1	09/06/06	09/11/06	LWG0600758	
2,4-Dichlorophenol	ND	U	5.0	0.23	1	09/06/06	09/11/06	LWG0600758	
2,4-Dimethylphenol	ND	U	10	0.83	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrophenol	ND	U	50	10	1	09/06/06	09/11/06	LWG0600758	
2,4-Dinitrotoluene	ND	U	4.0	0.30	1	09/06/06	09/11/06	LWG0600758	
2,6-Dinitrotoluene	ND	U	5.0	0.30	1	09/06/06	09/11/06	LWG0600758	
2-Chloronaphthalene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
2-Chlorophenol	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.20	1	09/06/06	09/11/06	LWG0600758	
2-Methylnaphthalene	ND	U	5.0	0.18	1	09/06/06	09/11/06	LWG0600758	
2-Methylphenol	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	
2-Nitroaniline	ND	U	20	0.27	1	09/06/06	09/11/06	LWG0600758	
2-Nitrophenol	ND	U	5.0	0.26	1	09/06/06	09/11/06	LWG0600758	
3,3'-Dichlorobenzidine	ND	U	20	0.84	1	09/06/06	09/11/06	LWG0600758	
3-Nitroaniline	ND	U	20	0.29	1	09/06/06	09/11/06	LWG0600758	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.18	1	09/06/06	09/11/06	LWG0600758	
4-Chloro-3-methylphenol	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	
4-Chloroaniline	ND	U	5.0	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
4-Nitroaniline	ND	U	20	0.36	1	09/06/06	09/11/06	LWG0600758	
4-Nitrophenol	ND	U	50	20	1	09/06/06	09/11/06	LWG0600758	
Acenaphthene	ND	U	5.0	0.15	1	09/06/06	09/11/06	LWG0600758	
Acenaphthylene	ND	U	5.0	0.23	1	09/06/06	09/11/06	LWG0600758	
Aniline	ND	U	5.0	0.34	1	09/06/06	09/11/06	LWG0600758	
Anthracene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Benz(a)anthracene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Benzo(a)pyrene	**1.6**	J	5.0	0.54	1	09/06/06	09/11/06	LWG0600758	*

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: LWG0600758-3

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzo(b)fluoranthene	**1.3**	J	5.0	0.42	1	09/06/06	09/11/06	LWG0600758	*
Benzo(g,h,i)perylene	ND	U	5.0	0.74	1	09/06/06	09/11/06	LWG0600758	
Benzo(k)fluoranthene	**1.6**	J	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	*
Benzoic acid	ND	U	50	20	1	09/06/06	09/11/06	LWG0600758	
Benzyl alcohol	ND	U	10	0.22	1	09/06/06	09/11/06	LWG0600758	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.32	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-chloroisopropyl) Ether	ND	U	5.0	0.24	1	09/06/06	09/11/06	LWG0600758	
Bis(2-ethylhexyl) Phthalate	**0.81**	J	5.0	0.30	1	09/06/06	09/11/06	LWG0600758	
Butyl Benzyl Phthalate	ND	U	5.0	0.48	1	09/06/06	09/11/06	LWG0600758	
Chrysene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Di-n-butyl Phthalate	**0.36**	J	5.0	0.25	1	09/06/06	09/11/06	LWG0600758	
Di-n-octyl Phthalate	ND	U	5.0	0.33	1	09/06/06	09/11/06	LWG0600758	*
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	09/06/06	09/11/06	LWG0600758	
Dibenzofuran	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Diethyl Phthalate	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
Dimethyl Phthalate	ND	U	5.0	0.26	1	09/06/06	09/11/06	LWG0600758	
Fluoranthene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Fluorene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobenzene	ND	U	2.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Hexachlorobutadiene	ND	U	10	0.22	1	09/06/06	09/11/06	LWG0600758	
Hexachlorocyclopentadiene	ND	U	10	1.8	1	09/06/06	09/11/06	LWG0600758	*
Hexachloroethane	ND	U	10	2.5	1	09/06/06	09/11/06	LWG0600758	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.65	1	09/06/06	09/11/06	LWG0600758	*
Isophorone	ND	U	5.0	0.30	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.28	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodimethylamine	ND	U	5.0	0.48	1	09/06/06	09/11/06	LWG0600758	
N-Nitrosodiphenylamine	ND	U	5.0	0.23	1	09/06/06	09/11/06	LWG0600758	
Naphthalene	ND	U	5.0	0.21	1	09/06/06	09/11/06	LWG0600758	
Nitrobenzene	ND	U	5.0	0.26	1	09/06/06	09/11/06	LWG0600758	
Pentachlorophenol	ND	U	30	0.63	1	09/06/06	09/11/06	LWG0600758	
Phenanthrene	ND	U	5.0	0.22	1	09/06/06	09/11/06	LWG0600758	
Phenol	ND	U	5.0	0.11	1	09/06/06	09/11/06	LWG0600758	
Pyrene	ND	U	5.0	0.33	1	09/06/06	09/11/06	LWG0600758	

Comments:

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Collected: NA
Date Received: NA

Semivolatile Organic Compounds by EPA Method 8270C

Sample Name: Method Blank
Lab Code: LWG0600758-3

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	10	0.33	1	09/06/06	09/11/06	LWG0600758	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	80	31-112	09/11/06	Acceptable
2-Fluorobiphenyl	92	47-110	09/11/06	Acceptable
2-Fluorophenol	83	23-115	09/11/06	Acceptable
Nitrobenzene-d5	99	42-122	09/11/06	Acceptable
Phenol-d5	87	23-121	09/11/06	Acceptable
Terphenyl-d14	121	37-130	09/11/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601258
Date Analyzed: 09/11/2006
Time Analyzed: 10:47

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E060911\E061028.D
Instrument ID: MSE
Analysis Method: 8270C

Lab Code: LWG0600759-2
Analysis Lot: LWG0600759

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	255,338	6.12	539,160	9.95	508,276	16.28
	Upper Limit ==>	510,676	6.62	1,078,320	10.45	1,016,552	16.78
	Lower Limit ==>	127,669	5.62	269,580	9.45	254,138	15.78
	ICAL Result ==>	192,862	6.20	428,324	10.05	412,998	16.46
Associated Analyses							
Method Blank	LWG0600758-3	200,189	6.12	441,040	9.95	409,373	16.28
Lab Control Sample	LWG0600758-1	245,557	6.12	554,878	9.95	522,894	16.28
Duplicate Lab Control Sample	LWG0600758-2	262,004	6.12	565,177	9.95	463,268	16.28
MWCL-2	D0601258-002	263,948	6.12	606,836	9.95	531,424	16.27
MWCL-3	D0601258-003	266,447	6.12	595,319	9.95	529,990	16.27
MWCL-4	D0601258-004	279,024	6.12	586,506	9.95	469,747	16.27
MWCL-5	D0601258-005	249,210	6.12	569,089	9.95	464,260	16.27
MWCL-6	D0601258-006	280,665	6.12	657,586	9.95	624,241	16.28
B120-MW5	D0601258-007	244,616	6.12	531,820	9.95	440,440	16.28
B120-MW4	D0601258-008	303,729	6.12	710,075	9.96	704,203	16.29
QCEB	D0601258-009	291,699	6.12	632,135	9.95	542,189	16.28
QCEB	D0601258-010	254,852	6.12	559,156	9.95	485,999	16.28
MWCL-1	D0601258-001	297,887	6.12	681,229	9.95	594,434	16.28

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: D0601258
Date Analyzed: 09/11/2006
Time Analyzed: 10:47

Internal Standard Area and RT Summary
Semivolatile Organic Compounds by EPA Method 8270C

File ID: C:\MSDCHEM\1\DATA\E060911\E061028.D
Instrument ID: MSE
Analysis Method: 8270C

Lab Code: LWG0600759-2
Analysis Lot: LWG0600759

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	917,700	7.73	324,362	19.23	809,483	11.80
	Upper Limit ==>	1,835,400	8.23	648,724	19.73	1,618,966	12.30
	Lower Limit ==>	458,850	7.23	162,181	18.73	404,742	11.30
	ICAL Result ==>	717,067	7.82	252,957	19.47	632,604	11.92
Associated Analyses							
Method Blank	LWG0600758-3	727,606	7.72	201,075	19.23	662,195	11.80
Lab Control Sample	LWG0600758-1	910,328	7.73	255,644	19.23	859,660	11.80
Duplicate Lab Control Sample	LWG0600758-2	959,631	7.73	208,175	19.23	825,199	11.80
MWCL-2	D0601258-002	993,711	7.73	233,046	19.23	917,304	11.80
MWCL-3	D0601258-003	982,896	7.73	261,334	19.23	893,979	11.80
MWCL-4	D0601258-004	994,241	7.73	232,166	19.23	866,886	11.80
MWCL-5	D0601258-005	935,069	7.73	210,664	19.23	845,951	11.80
MWCL-6	D0601258-006	1,054,232	7.73	293,687	19.23	1,002,253	11.80
B120-MW5	D0601258-007	889,381	7.73	206,114	19.23	797,185	11.80
B120-MW4	D0601258-008	1,151,966	7.73	355,391	19.25	1,074,400	11.81
QCEB	D0601258-009	1,060,690	7.73	261,752	19.23	933,753	11.80
QCEB	D0601258-010	938,812	7.73	235,883	19.23	837,016	11.80
MWCL-1	D0601258-001	1,120,817	7.73	300,881	19.23	1,020,381	11.80

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Extracted: 09/06/2006
Date Analyzed: 09/11/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: LWG0600758

	Lab Control Sample LWG0600758-1 Lab Control Spike			Duplicate Lab Control Sample LWG0600758-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
4-Methylphenol	49.3	50.0	99	35.6	50.0	71	60-108	32 *	20
1,2,4-Trichlorobenzene	44.1	50.0	88	31.7	50.0	63	30-101	33 *	20
1,2-Dichlorobenzene	40.7	50.0	81	29.0	50.0	58	20-105	34 *	20
1,3-Dichlorobenzene	38.8	50.0	78	27.6	50.0	55	15-104	34 *	20
1,4-Dichlorobenzene	39.1	50.0	78	27.8	50.0	56	19-102	34 *	20
1,4-Dioxane	46.2	50.0	92	32.2	50.0	64	35-101	36 *	20
2,4,5-Trichlorophenol	55.0	50.0	110	40.0	50.0	80	48-114	32 *	20
2,4,6-Trichlorophenol	54.9	50.0	110	40.5	50.0	81	48-112	30 *	20
2,4-Dichlorophenol	52.2	50.0	104	37.0	50.0	74	49-114	34 *	20
2,4-Dimethylphenol	45.8	50.0	92	33.0	50.0	66	38-107	32 *	20
2,4-Dinitrophenol	78.6	100	79	53.9	100	54	16-134	37 *	20
2,4-Dinitrotoluene	54.3	50.0	109	36.6	50.0	73	23-132	39 *	20
2,6-Dinitrotoluene	52.9	50.0	106	37.8	50.0	76	47-116	33 *	20
2-Chloronaphthalene	48.9	50.0	98	35.5	50.0	71	41-113	32 *	20
2-Chlorophenol	48.4	50.0	97	34.1	50.0	68	45-108	35 *	20
2-Methyl-4,6-dinitrophenol	87.5	100	87	60.7	100	61	21-134	36 *	20
2-Methylnaphthalene	49.5	50.0	99	34.7	50.0	69	41-112	35 *	20
2-Methylphenol	48.1	50.0	96	34.6	50.0	69	44-110	33 *	20
2-Nitroaniline	55.1	50.0	110	39.6	50.0	79	19-137	33 *	20
2-Nitrophenol	48.9	50.0	98	34.9	50.0	70	47-117	33 *	20
3,3'-Dichlorobenzidine	94.0	100	94	71.1	100	71	10-122	28 *	20
3-Nitroaniline	55.7	50.0	111	41.2	50.0	82	25-146	30 *	20
4-Bromophenyl Phenyl Ether	55.5	50.0	111	40.9	50.0	82	46-117	30 *	20
4-Chloro-3-methylphenol	52.7	50.0	105	37.5	50.0	75	45-115	34 *	20
4-Chloroaniline	49.0	50.0	98	38.0	50.0	76	16-139	25 *	20
4-Chlorophenyl Phenyl Ether	52.7	50.0	105	38.1	50.0	76	45-115	32 *	20
4-Nitroaniline	57.4	50.0	115	38.4	50.0	77	16-147	40 *	20
4-Nitrophenol	102	100	102	67.3	100	67	10-134	41 *	20
Acenaphthene	48.6	50.0	97	34.9	50.0	70	39-119	33 *	20
Acenaphthylene	51.9	50.0	104	37.7	50.0	75	51-112	32 *	20
Aniline	52.6	50.0	105	38.3	50.0	77	10-144	32 *	20
Anthracene	52.9	50.0	106	38.2	50.0	76	40-123	32 *	20
Benz(a)anthracene	55.2	50.0	110	39.7	50.0	79	36-126	33 *	20
Benzo(a)pyrene	64.1	50.0	128 *	46.1	50.0	92	41-125	33 *	20
Benzo(b)fluoranthene	69.2	50.0	138 *	48.9	50.0	98	48-126	34 *	20
Benzo(g,h,i)perylene	67.4	50.0	135	46.5	50.0	93	33-138	37 *	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: D0601258
Date Extracted: 09/06/2006
Date Analyzed: 09/11/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Semivolatile Organic Compounds by EPA Method 8270C

Extraction Method: EPA 3520C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: LWG0600758

	Lab Control Sample LWG0600758-1 Lab Control Spike			Duplicate Lab Control Sample LWG0600758-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Benzo(k)fluoranthene	64.5	50.0	129 *	50.5	50.0	101	49-125	24 *	20
Benzoic acid	35.2	50.0	70	22.5	50.0	45	10-148	44 *	20
Benzyl alcohol	50.7	50.0	101	35.5	50.0	71	48-119	35 *	20
bis(2-Chloroethoxy)methane	51.6	50.0	103	37.2	50.0	74	39-120	33 *	20
Bis(2-chloroethyl) Ether	50.3	50.0	101	36.2	50.0	72	41-108	33 *	20
Bis(2-chloroisopropyl) Ether	47.3	50.0	95	33.7	50.0	67	38-119	34 *	20
Bis(2-ethylhexyl) Phthalate	56.9	50.0	114	41.6	50.0	83	42-127	31 *	20
Butyl Benzyl Phthalate	57.0	50.0	114	42.1	50.0	84	40-126	30 *	20
Chrysene	53.2	50.0	106	38.2	50.0	76	47-117	33 *	20
Di-n-butyl Phthalate	53.7	50.0	107	37.7	50.0	75	40-126	35 *	20
Di-n-octyl Phthalate	70.0	50.0	140 *	53.3	50.0	107	48-127	27 *	20
Dibenz(a,h)anthracene	67.7	50.0	135	46.3	50.0	93	44-137	38 *	20
Dibenzofuran	51.4	50.0	103	36.5	50.0	73	45-115	34 *	20
Diethyl Phthalate	55.7	50.0	111	38.1	50.0	76	41-120	37 *	20
Dimethyl Phthalate	53.3	50.0	107	37.9	50.0	76	46-116	34 *	20
Fluoranthene	52.4	50.0	105	36.1	50.0	72	35-127	37 *	20
Fluorene	53.0	50.0	106	36.7	50.0	73	46-121	36 *	20
Hexachlorobenzene	56.1	50.0	112	40.7	50.0	81	44-117	32 *	20
Hexachlorobutadiene	46.5	50.0	93	32.6	50.0	65	17-101	35 *	20
Hexachlorocyclopentadiene	38.1	50.0	76 *	28.0	50.0	56	10-74	31 *	20
Hexachloroethane	38.7	50.0	77	27.0	50.0	54	10-105	36 *	20
Indeno(1,2,3-cd)pyrene	67.3	50.0	135 *	46.1	50.0	92	38-131	37 *	20
Isophorone	52.2	50.0	104	37.2	50.0	74	44-115	34 *	20
N-Nitrosodi-n-propylamine	54.7	50.0	109	38.8	50.0	78	43-112	34 *	20
N-Nitrosodimethylamine	51.4	50.0	103	35.8	50.0	72	35-119	36 *	20
N-Nitrosodiphenylamine	51.5	50.0	103	38.7	50.0	77	53-106	28 *	20
Naphthalene	44.0	50.0	88	31.5	50.0	63	36-111	33 *	20
Nitrobenzene	53.4	50.0	107	38.1	50.0	76	42-116	33 *	20
Pentachlorophenol	85.5	100	85	58.1	100	58	15-141	38 *	20
Phenanthrene	51.7	50.0	103	36.9	50.0	74	43-120	33 *	20
Phenol	49.1	50.0	98	34.8	50.0	70	20-119	34 *	20
Pyrene	57.5	50.0	115	43.6	50.0	87	29-140	27 *	20
Pyridine	41.5	50.0	83	30.8	50.0	62	23-98	30 *	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

APPENDIX D

HEXAVALENT CHROMIUM TREATABILITY STUDY REPORT AND SUMMARY OF RESULTS

Prepared for:

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

Laboratory Biotreatability Study to Evaluate Iron Treatment of Chromium in Soil and Groundwater

2701 North Harbor Drive, San Diego, CA

Prepared by:

130 Research Lane, Suite 2
Guelph, Ontario N1G 5G3
SiREM Ref: SC0307.03.03

29 June 2006

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LIST OF ABBREVIATIONS

Cr	chromium
EPA	Environmental Protection Agency
Fe	iron
g	gram
g/kg	grams per kilogram
g/L	grams per liter
nZV1	nano-scale zero valent iron
µg/g	micrograms per gram
mg/L	milligrams per liter
mL	milliliters
%	per cent
SiREM	SiREM Laboratories
ZVI	zero-valent Iron

1. INTRODUCTION

GeoSyntec Consultants (GeoSyntec) retained SiREM Laboratory (SiREM) to perform a laboratory treatability study for hexavalent chromium (Cr^{6+}) in groundwater collected from 2701 North Harbor Drive, San Diego, California (the Site). The purpose of the study was to assess zero valent iron (ZVI) and ferrous sulfate ($FeSO_4$) for the remediation of Cr^{6+} in the soil and groundwater at the Site.

Chromium exists in oxidation states ranging from +6 to -2, however, only the +6 and +3 oxidation states are commonly encountered in the environment. Cr^{6+} is of environmental concern due to its toxic and carcinogenic properties and increased subsurface mobility when compared to the relatively less toxic and immobile trivalent chromium (Cr^{3+}) species.

Groundwater used in this study was collected by GeoSyntec personnel from boring T48 at 11 feet below grade surface on 13 April 2006 and was received by SiREM on 18 April 2006. Soil cores collected on 13 April 2006 from locations T47 to T49 between depths of 7 to 11 feet below ground surface were received from GeoSyntec on 19 April 2006. The remainder of this report is divided into two sections. Section 2 presents the experimental approach and methods. Section 3 presents the results of the treatability study.

2. APPROACH AND METHODS

The following sections describe the approach and methods for reactor construction (Section 2.1) and sampling and analysis (Section 2.2). Batch experiments for treatment of the soil and groundwater were conducted separately.

2.1 Microcosm Construction and Sampling

2.1.1 Soil Experiment

Before the experiment commenced, an unamended soil sample and a sample control reactor was prepared and sent out for external laboratory analysis of total and hexavalent chromium so that iron dosings could be accurately calculated. The results are summarized in Table 1.

Table 1: Preliminary Analytical Results, Soil Experiment

Sample	Total chromium	Hexavalent chromium
Soil	250 µg/g	32 µg/g
Soil –saturated with Site groundwater	270 µg/g	70 µg/g

The ferrous sulfate dosing was calculated based on a theoretical molar ratio of 3 moles ferrous iron (Fe^{2+}) being required to treat 1 mole Cr^{6+}.

Reactors were constructed by filling 125 (mL) (nominal volume) wide mouth glass bottles (reactors) with approximately 100 grams soil material leaving a nominal headspace. The soil being tested was first removed from the shipping cores and homogenized under anaerobic conditions in a disposable glove bag filled with a nitrogen atmosphere. The soil was subdivided in batches for preparation of the control or treatment reactors and one of each treatment batch was prepared. Table 2 summarizes the details of batch construction and amendments for the various treatment and control treatments.

The batches of soil were amended with one of three loading rates of either microscale or granular ZVI products (0.1, 1, or 10 %), or ferrous sulfate (0.5, 5, or 10 g/kg) mixed well by hand, and amended with site groundwater to its water holding capacity (evaluated on a qualitative basis [i.e. saturated but no free water]) prior to distribution to replicate bottles to provide enough replicates for sacrificial sampling at each time interval. The intrinsic controls were amended with groundwater only.

Table 2: Summary of Soil Experiment Controls and Treatments.

	Number of Microcosms	Mass bulk soil in batch (g)	Mass of amendment added (g)	Total weight (g)
Controls				
Intrinsic Control	6	750	0	750.00
Iron Amended				
Microscale Iron 0.1%	6	749.25	0.75	750.00
Microscale Iron 1%	6	742.50	7.50	750.00
Microscale Iron 10%	6	675.00	75.00	750.00
Granular 0.1%	6	749.25	0.75	750.00
Granular 1%	6	742.50	7.50	750.00
Granular 10%	6	675.00	75.00	750.00

	Number of Microcosms	Mass bulk soil in batch (g)	Mass of amendment added (g)	Total weight (g)
$FeSO_4$ 0.5 g/kg	6	749.63	0.375	750.00
$FeSO_4$ 5 g/kg	6	746.25	3.75	750.00
$FeSO_4$ 10 g/kg	6	742.50	7.50	750.00
Number of Treatments	10			
Number of Bottles	60			

All treatments were constructed in triplicate for sacrificial sampling at the scheduled 24 and 72 hour sample intervals. The soil reactors were (re)amended with site groundwater to mimic saturation conditions (i.e. the soil was water saturated but there was no free water visible). Upon construction the samples designated for analysis at 24 hours were shipped by courier under chain of custody to Columbia Analytical Services (Rochester, NY) so that extractions could be conducted at the 24 hour time interval. Samples designated for the 72 hour sample interval were shipped 24 hours in advance to the laboratory. Due to uncontrolled shipping and laboratory delays, the samples were not received at the laboratory until Day 6 and were extracted at the 7 day interval.

2.1.2 Groundwater Treatment

Before the groundwater experiment was conducted, a groundwater sample was sent to a local analytical laboratory (Maxxam Analytics) for analysis of total and hexavalent chromium so that iron dosings could be accurately calculated. The total chromium in the groundwater was 510 mg/L and the Cr^{6+} was 612 mg/L.

Based on the results of the soil experiment ferrous sulfate and nano-scale zero valent iron (nZVI) was selected for testing with the Site groundwater. The ferrous sulfate dosing was calculated based on a theoretical molar ratio of 3 moles ferrous iron (Fe^{2+}) being required to treat 1 mole Cr^{6+}. A two times stoichiometric demand was used for addition of ferrous sulfate which corresponded to 18.6 g/L $FeSO_4 \cdot 7\ H_2O$. The commercial nZVI product used (Toda Corporation, Japan) was supplied as a slurry in water with a moisture content of 50%. The nZVI dosing of 1% was selected by Geosyntec, which corresponded to 10 g/L as Fe^o and 20 g/L wet nZVI.

Reactors were constructed by filling 250 mL (nominal volume) glass bottles (reactors) with approximately 30 grams soil material, amended with appropriate iron product and

dosing and finally adding 150 mL Site groundwater leaving a nominal headspace. Table 3 summarizes the details of the various treatment and control reactors.

Table 3: Summary of Groundwater Experiment Controls and Treatments.

Treatment	Number of Reactors	Soil (g)	Groundwater (mL)	Wet nZVI (g/L)	$FeSO_4 \cdot 7H_2O$ (g/L)
ANAC	2	30	150	-	-
nZVI	2	30	150	20 g/L	-
$FeSO_4$	2	30	150	-	18.6

The intrinsic controls were amended with groundwater only.

All treatments were constructed in duplicate for sacrificial sampling at a single sample interval (24 hours). Upon construction the samples were shipping by courier under chain of custody to Columbia Analytical Services (Rochester, NY) so that extractions could be conducted at the 24 hour time interval. Although soil and groundwater were present in the treatment reactors, only the groundwater was extracted for analysis.

2.2 Analysis of Total and Hexavalent Chromium

Samples for screening level analysis of total and hexavalent chromium (by EPA methods 6010 and 7196 respectively) were sent to a local analytical laboratory (Maxxam Analytics, Mississauga, ON) for a rapid turn around so that experiments could proceed. Samples were extracted upon receipt and analysed using atomic adsorption methods.

Samples from the soil and groundwater experiments were submitted to Columbia Analytical Services for total and hexavalent chromium analysis by EPA methods 6010B and 7199 respectively. The sample extraction date is the date used for the sample date as the extraction process stopped the reaction in the samples.

3. RESULTS

Tables 4A and 4B provide data from the soil and groundwater experiments over the duration of the study. All concentrations are presented in units of mg/L. Figures 1

through 6 present trends in the concentrations of chromium in the control and treatment microcosms for the study.

TABLES

TABLE 4A: SUMMARY OF SOIL EXPERIMENT CHROMIUM RESULTS

SiREM

2701 North Harbor Drive, San Diego, CA

				Chromium	Hexavalent Chromium	Percent Solids
TREATMENT	**Extraction Date**	**Day**	**Treatment Replicate**	**mg/kg**	**mg/kg**	**%**
Anaerobic Active	17-May-06	1	ANAC-1	289	109	79
			ANAC-2	285	115	78
			ANAC-3	283	118	78
			Average Concentration	**286**	**114**	**78**
	23-May-06	7	ANAC-4	271	116	77
			ANAC-5	272	104	78
			ANAC-6	277	99	78
			Average Concentration	**273**	**106**	**77**
Microscale 0.1%	17-May-06	1	MICROSCALE 0.1%-1	270	136	76
			MICROSCALE 0.1%-2	283	127	77
			MICROSCALE 0.1%-3	294	125	77
			Average Concentration	**282**	**129**	**77**
	23-May-06	7	MICROSCALE 0.1%-4	290	115	76
			MICROSCALE 0.1%-5	292	115	77
			MICROSCALE 0.1%-6	286	115	76
			Average Concentration	**289**	**115**	**76**
Microscale 1%	17-May-06	1	MICROSCALE 1%-1	266	127	76
			MICROSCALE 1%-2	262	119	76
			MICROSCALE 1%-3	275	121	76
			Average Concentration	**268**	**122**	**76**
	23-May-06	7	MICROSCALE 1%-4	273	103	77
			MICROSCALE 1%-5	265	98	77
			MICROSCALE 1%-6	271	106	76
			Average Concentration	**270**	**102**	**77**
Microscale 10%	17-May-06	1	MICROSCALE 10%-1	305	103	79
			MICROSCALE 10%-2	322	93	78
			MICROSCALE 10%-3	321	92	78
			Average Concentration	**316**	**96**	**78**
	23-May-06	7	MICROSCALE 10%-4	318	73	78
			MICROSCALE 10%-5	298	77	78
			MICROSCALE 10%-6	317	77	78
			Average Concentration	**311**	**76**	**78**
Granular 0.1%	17-May-06	1	GRANUALR 0.1%-1	272	120	77
			GRANULAR 0.1%-2	249	121	77
			GRANULAR 0.1%-3	277	124	76
			Average Concentration	**266**	**122**	**77**
	23-May-06	7	GRANULAR 0.1%-4	252	108	76
			GRANULAR 0.1%-5	240	96	77
			GRANULAR 0.1%-6	265	98	76
			Average Concentration	**252**	**100**	**77**
Granular 1%	17-May-06	1	GRANULAR 1%-1	290	105	78
			GRANULAR 1%-2	309	112	78
			GRANULAR 1%-3	298	109	79
			Average Concentration	**299**	**109**	**78**
	23-May-06	7	GRANULAR 1%-4	288	73	78
			GRANULAR 1%-5	240	87	79
			GRANULAR 1%-6	258	100	77
			Average Concentration	**262**	**87**	**78**
Granular 10%	17-May-06	1	GRANULAR 10%-1	455	35	79
			GRANULAR 10%-2	479	32	79
			GRANULAR 10%-3	516	59	79
			Average Concentration	**483**	**42**	**79**
	23-May-06	7	GRANULAR 10%-4	447	29	78
			GRANULAR 10%-5	405	21	78
			GRANULAR 10%-6	367	5	79
			Average Concentration	**406**	**18**	**78**
$FeSO_4$ 0.5 g/kg	17-May-06	1	$FeSO_4$ 0.5 g/Kg -1	295	70	77
			$FeSO_4$ 0.5 g/Kg -2	254	32	78
			$FeSO_4$ 0.5 g/Kg -3	283	44	78
			Average Concentration	**277**	**48**	**78**
	23-May-06	7	$FeSO_4$ 0.5 g/Kg -4	257	79	77
			$FeSO_4$ 0.5 g/Kg -5	271	49	78
			$FeSO_4$ 0.5 g/Kg -6	275	61	78
			Average Concentration	**268**	**63**	**78**
$FeSO_4$ 5 g/kg	17-May-06	1	$FeSO_4$ 5 g/Kg - 1	291	32	77
			$FeSO_4$ 5 g/Kg - 2	269	68	77
			$FeSO_4$ 5 g/Kg - 3	297	30	77
			Average Concentration	**286**	**44**	**77**
	23-May-06	7	$FeSO_4$ 5 g/Kg - 4	259	33	78
			$FeSO_4$ 5 g/Kg - 5	229	29	78
			$FeSO_4$ 5 g/Kg - 6	252	30	78
			Average Concentration	**247**	**30**	**78**
$FeSO_4$ 10 g/kg	17-May-06	1	$FeSO_4$ 10 g/Kg -1	333	27	77
			$FeSO_4$ 10 g/Kg -2	265	18	78
			$FeSO_4$ 10 g/Kg -3	320	31	78
			Average Concentration	**306**	**25**	**78**
	23-May-06	7	$FeSO_4$ 10 g/Kg -4	296	26	77
			$FeSO_4$ 10 g/Kg -5	288	23	77
			$FeSO_4$ 10 g/Kg -6	291	16	77
			Average Concentration	**292**	**22**	**77**

6/29/2006

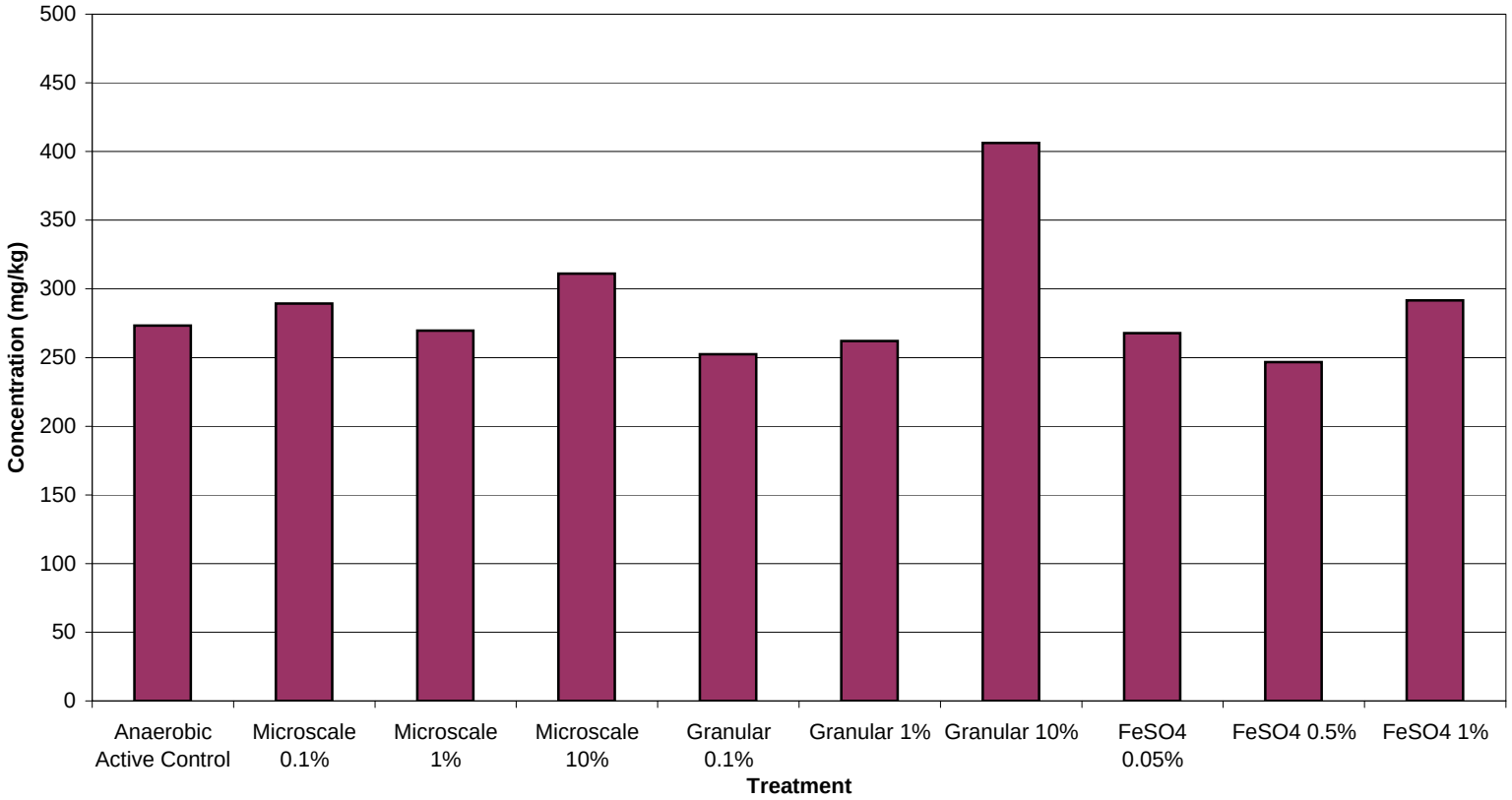
TABLE 4B: SUMMARY OF GROUNDWATER EXPERIMENT CHROMIUM RESULTS

SiREM

2701 North Harbor Drive, San Diego, CA

					Chromium (dissolved)	Hexavalent Chromium (dissolved)
TREATMENT	**Extraction Date**	**DAY**	**Treatment Replicate**	**bottle #**	**mg/kg**	**mg/kg**
Active Control	16-Jun-06	1	ANAC-1	1	602	592
			ANAC-2	2	575	591
			average concentration		**589**	**592**
Nanoscale ZVI	16-Jun-06	1	nZVI-1	3	372	391
			nZVI-2	4	377	396
			average concentration		**375**	**394**
$FeSO_4$	16-Jun-06	1	$FeSO_4$-1	5	1.49	<0.005
			$FeSO_4$-2	6	0.989	<0.005
			average concentration		**1.24**	**0**

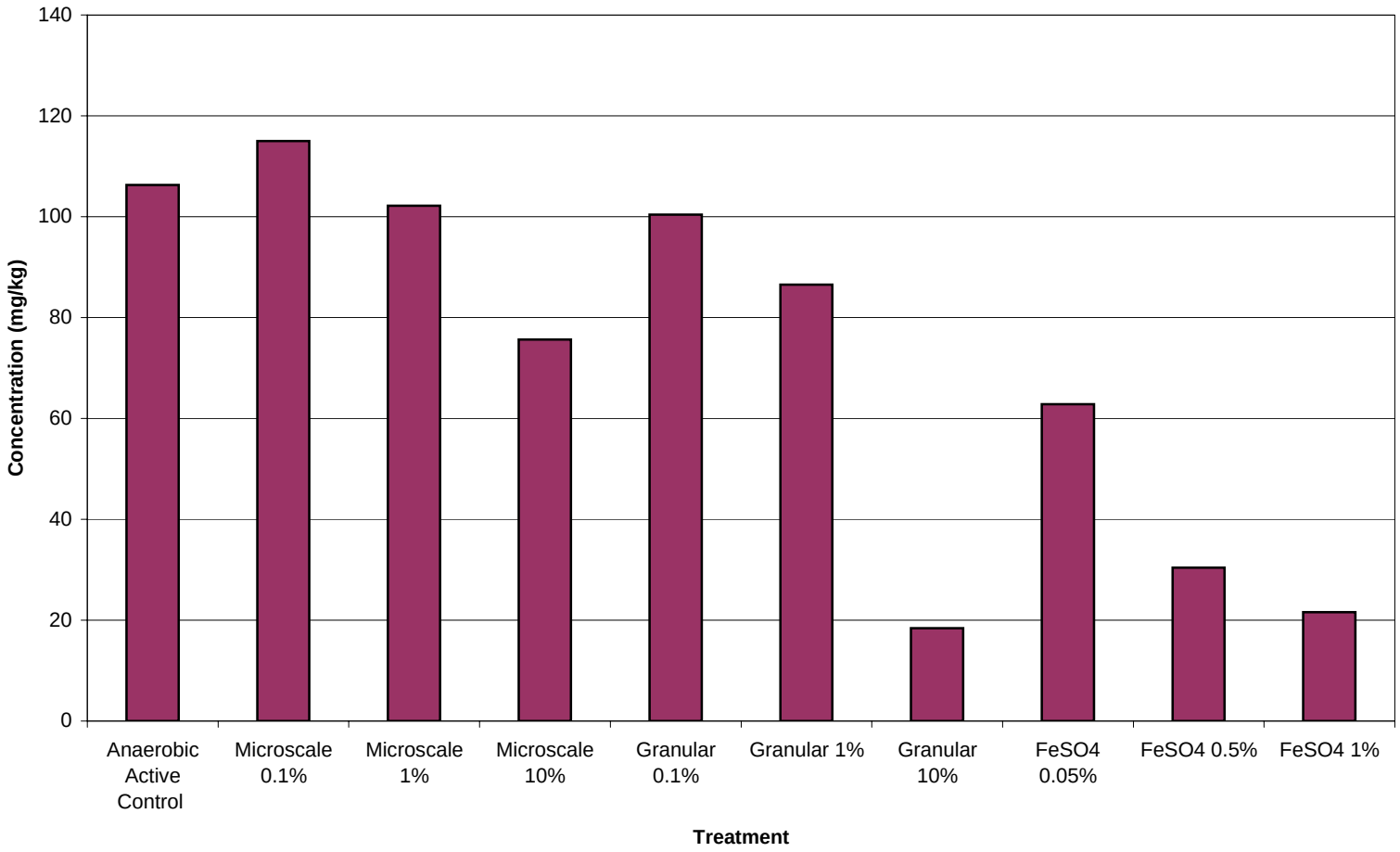
FIGURES



Soil Experiment Total Chromium Results (Day 7)

2701 North Harbor Drive, San Diego, California

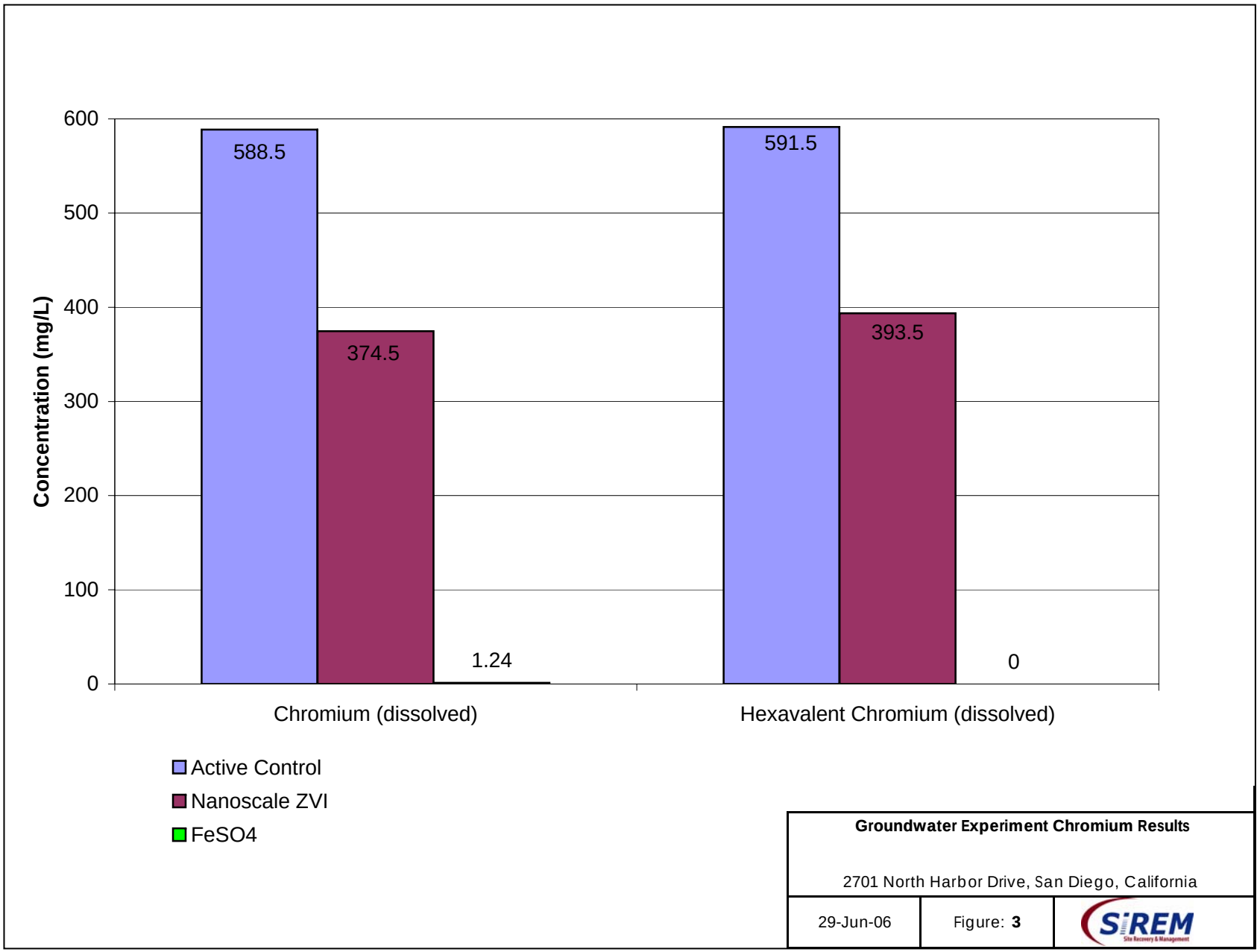
29-Jun-06	Figure: **1**	SiREM



Soil Treatment Hexavalent Chromium Results (Day 7)

2701 North Harbor Drive, San Diego, California

29-Jun-06	Figure: **2**	SiREM



Groundwater Experiment Chromium Results

2701 North Harbor Drive, San Diego, California

29-Jun-06	Figure: **3**	SiREM

APPENDIX E

ENHANCED IN-SITU BIOREMEDIATION TREATABILITY STUDY REPORT AND SUMMARY OF RESULTS

Prepared for:

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

Laboratory Biotreatability Study to Evaluate Biodegradation of Chlorinated Solvents in Groundwater

2701 North Harbor Drive, San Diego, CA

Prepared by:

130 Research Lane, Suite 2
Guelph, Ontario N1G 5G3
SiREM Ref: SC0307.03.03

28 June 2006

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APPENDIX A: Henry's Law Calculation

LIST OF ABBREVIATIONS

cis-1,2-DCE	*cis*-1,2-dichloroethene
cells/L	cells per liter
°C	degrees Celsius
°C/min	degrees Celsius per minute
DHG	dissolved hydrocarbon gases
g/L	grams per liter
GC	gas chromatograph
IC	ion chromatograph
KB - 1®	KB - 1® Dechlorinator
PCE	tetrachloroethene
PSI	pounds per square inch
µg/L	micrograms per liter
µL	microliters
min	minutes
mg/L	milligrams per liter
mL	milliliters
mL/min	milliliters per minute
mM	millimolar
mmol/bottle	millimole per bottle
%	per cent
QL	quantitation limit
SiREM	SiREM Laboratories
TCE	trichloroethene
VOC	volatile organic compound
VC	vinyl chloride

1. INTRODUCTION

GeoSyntec Consultants (GeoSyntec) retained SiREM Laboratory (SiREM) to perform a laboratory biotreatability study for volatile organic compounds (VOCs) in groundwater collected from 2701 North Harbor Drive, San Diego, California (the Site). The purpose of the study was to assess natural attenuation, enhanced bioremediation, and bioaugmentation processes for the remediation of the target VOCs (namely tetrachloroethene [PCE] and its respective degradation products trichloroethene [TCE], c*is*-1,2-dichloroethene [*cis*-DCE], vinyl chloride [VC], and ethene) in the groundwater at the Site.

Natural attenuation processes occur in situ and are mediated by indigenous microbial populations present at the Site. Enhanced anaerobic bioremediation can be achieved by stimulating the indigenous microbial populations through the addition of electron donors. Bioaugmentation is the process by which a microbial population known to promote complete reductive dechlorination is introduced to Site groundwater. KB-1® Dechlorinator (KB-1®) is a natural microbial consortium containing microorganisms (*Dehalococcoides*) known to be responsible for mediating the complete dechlorination of PCE, TCE, *cis*-1,2-DCE, and VC to ethene [1,2]. The culture is non-pathogenic according to biannual testing by an external laboratory (results available upon request).

Groundwater used in this study was collected by GeoSyntec personnel from well B131-MW2 on 15 March 2006 and was received by SiREM on 22 March 2006. Soil cores collected on 14 March 2006 from location B131-MW2D between depths of 6.5 to 18 feet below ground surface were received from GeoSyntec on 22 March 2006. Microcosms were prepared under anaerobic conditions in an effort to simulate in situ Site conditions in the laboratory to the extent practicable. The remainder of this report is divided into two sections. Section 2 presents the experimental approach and methods; Section 3 presents the results of the microcosm study.

2. APPROACH AND METHODS

The following sections describe the approach and methods for microcosm construction and incubation (Section 2.1), and microcosm sampling and analysis (Section 2.2).

2.1 Microcosm Construction and Incubation

A total of 18 microcosms were constructed on 07 April 2006. Site soil and groundwater were placed in a disposable anaerobic glove bag with the materials required to construct the various treatment and control microcosms. The glove bag was purged

with a carbon dioxide/nitrogen (20:80) gas mixture to create an anaerobic environment. The soil was combined and mixed by hand to improve reproducibility between replicates. Microcosms were constructed by filling sterile 250 milliliter (mL) (nominal volume) screw cap Boston round clear glass bottles (Systems Plus, New Hamburg, Ontario) with 30 mL of homogenized soil and 180 mL of Site groundwater. The bottles were capped with Mininert™ closures to allow repetitive sampling of the bottle with minimal VOC loss, and to allow nutrient amendment, as needed, throughout the incubation period. All controls and treatments were constructed in triplicate.

Anaerobic sterile control microcosms were constructed to quantify potential abiotic and experimental VOC losses from the microcosms. The sterile controls were constructed by autoclaving the Site soil once at 121 degrees Celsius (°C) and 15 pounds per square inch (PSI) pressure for 45 to 60 minutes (min). After autoclaving, the control microcosms were returned to the anaerobic chamber, filled with 180 mL of Site groundwater and amended with 2.8 mL of 2.7 per cent (%) mercuric chloride (equal to a final liquid concentration of 0.05 %) and 0.5 mL of 5 % sodium azide (equal to a final liquid concentration of 0.017 %) to inhibit microbial activity. Intrinsic Control microcosms were not amended with electron donors or other amendments in order to replicate non-amended Site conditions.

All microcosms were sampled and incubated in an anaerobic chamber (Coy Laboratory Products, Grass Lake, MI) filled with approximately 80% nitrogen, 10% carbon dioxide, and 10% hydrogen (BOC gases). Hydrogen was present to scavenge low levels of oxygen via a palladium catalyst, and anaerobic conditions were verified by an open bottle of resazurin-containing mineral medium, which turns pink in color if oxygen is present. During quiescent incubation, all microcosms were covered to minimize photodegradation, and placed on their side to minimize VOC losses via the (submerged) Mininert™ closure. Microcosms were incubated for a period of up to 76 days at 22°C (room temperature).

Treatment microcosms were amended with either a soluble electron donor (sodium lactate [LAC]) or a slow release electron donor (emulsified vegetable oil [commercially available, EOS]). The EOS and LAC treatment microcosms were amended with electron donor at approximately 10 times the stoichiometric demand of the VOCs and selected inorganic compounds (i.e., nitrate and sulfate). The LAC microcosms were amended with 1.66 mL of a 60% sodium lactate solution corresponding to a target concentration of 5,520 mg/L. The EOS microcosms were amended with 486 µL of EOS corresponding to a target concentration of 0.27 % EOS as oil (EOS is 59.8 % soy bean oil). The amount of EOS added was based on the anticipated dosing rate in the field.

To assess the ability of bioaugmentation to improve the extent and rate of PCE dechlorination to ethene, one set of each electron donor treatments was bioaugmented with KB-1® culture on 05 May 2006 (day 28). Microcosms were bioaugmented to a target *Dehalococcoides* (DHC) concentration of 10^6 cells per liter (cells/L) in the microcosms. To achieve this cell concentration, a 1 mL aliquot of a culture with a steady state concentration of approximately 10^{11} DHC cells/L (determined by monthly Gene-Trac testing) was serially diluted in 9 mL of anaerobic mineral medium and 1.8 mL of the diluted culture was added to the microcosms to achieve the final DHC concentration. Microcosms were bioaugmented at day 28 to allow for development of reducing conditions required by the KB-1® culture. Reducing conditions in these microcosms were observed after the addition of the electron donor.

Table 1 summarizes the details of microcosm construction and amendments for the various treatment and control microcosms.

2.2 Microcosm Sampling and Analysis

2.2.1 Microcosm Sampling

Aqueous samples were collected from the control and treatment microcosms on a weekly to biweekly (i.e., every two weeks) basis for analysis of VOCs (PCE, TCE, *cis*-1,2-DCE, and VC), dissolved hydrocarbon gases (DHGs) (ethene, ethane, and methane), anions (sulfate, nitrate, nitrite, chloride, phosphate, bromide) and selected electron donors (lactate). Microcosms were sampled using gas-tight 1 mL Hamilton glass syringes. Separate sets of syringes were used for bioaugmented and non-bioaugmented treatments to reduce the potential for transfer of KB-1® microorganisms to non-bioaugmented treatments. Syringes were cleaned with acidified water (pH ~2) and rinsed 10 times with deionized water between samples, to ensure that VOCs and microorganisms were not transferred between different samples or treatments. The analytical methods employed by SiREM are described below.

2.2.2 Analysis of VOCs and Dissolved Hydrocarbon Gases

This section describes the methods used to quantify the chlorinated ethenes and DHGs. The quantitation limits (QL) for the chlorinated ethenes and DHGs were typically 10 to 20 micrograms per liter (µg/L) in the microcosm based on the lowest concentration standards that were included in the linear calibration trend.

Aqueous VOC concentrations in the microcosms were measured using a Hewlett-Packard (Hewlett Packard 5890 series II Plus) gas chromatograph (GC) equipped with an auto sampler (Hewlett Packard 7684) programmed to heat each sample vial to 75°C

for 45 min prior to headspace injection into a GSQ Plot column (0.53 millimeters x 30 meters, J&W) and a flame ionization detector. Sample vials were heated to ensure that all VOCs in the aqueous sample would partition to the headspace. The injector temperature was 200°C, and the detector temperature was 250°C. The oven temperature was programmed as follows: 35°C for 2 min, increase to 100°C at 50 degrees Celsius per minute (°C/min), then increase to 185°C at 25°C/min and hold at 185°C for 5.80 min. The carrier gas was helium at a flow rate of 11 milliliters per minute (mL/min).

After withdrawing a 1.0 mL sample (as described in section 2.2.1), the sample was injected into a 10 mL auto sampler vial containing 5.0 mL of acidified deionized water (pH ~2). The water was acidified to inhibit microbial activity between microcosm sampling and GC analysis. The vial was sealed with an inert Teflon^{TM}-coated septum and aluminum crimp cap for automated injection of 3 mL of headspace onto the GC. One VOC standard was analyzed with each batch of samples to verify the yearly five-point calibration using methanolic stock solutions containing known concentrations of the target analytes. Calibration was performed using external standards that were purchased as standard solutions (Sigma). Known volumes of standard solutions were added to acidified water in auto sampler vials and analyzed as described above for microcosm samples. Data were integrated using Peak Simple Chromatography Data System Software (SRI, Inc.). Concentrations were converted from mg/L to total millimoles per bottle (Figures 1 to 6 and Table 2A) using Henry's Law as shown in Appendix A.

2.2.3 Analysis of Anions and Lactate

This section describes the methods to quantify anions and lactate.

Analysis was performed on a Dionex DX-600 ion chromatograph (IC) equipped with a Dionex AS-40 auto sampler and an AS18 column. The sample loop volume was 25 μL. An isocratic separation was performed using 33 millimolar (mM) sodium hydroxide (reagent grade, Fisher) eluent for 13 minutes. One standard was analysed with each batch of samples to verify the yearly seven-point calibration using external standards of known concentrations. External standards were prepared gravimetrically using chemicals of the highest purity available (Sigma or Bioshop). Data were integrated using Dionex's Peaknet chromatography software. The QLs were as follows: 0.25 mg/L lactate, 0.03 mg/L chloride, 0.28 mg/L nitrite, 0.1 mg/L nitrate, 0.03 mg/L sulfate, 0.57 mg/L phosphate and 0.14 mg/L bromide. The lactate value included most other volatile fatty acids, such as formate, acetate, propionate, pyruvate, and butyrate

(valerate has not been tested), as the analytical method does not resolve these compounds.

After withdrawing a 0.5 mL sample (as described in section 2.2.1), the sample was placed in a 1.5 mL micro-centrifuge tube. Samples were centrifuged for five minutes to settle out solids. The supernatant was removed, diluted 10-fold in deionized water and placed in a Dionex auto sampler vial with a cap that filters the sample during automated injection onto the IC.

3. RESULTS

Tables 2A and 2B provide chlorinated ethene, ethene, and anion data from the control and treatment microcosms over the incubation period for the study. All chlorinated ethene and ethene concentrations are presented in units of mg/L and mmol/bottle to demonstrate mass balances on a molar basis. Figures 1 through 6 present trends in the concentrations of chlorinated ethenes and ethene in the control and treatment microcosms over the incubation period for the study.

4. REFERENCES

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TABLES

TABLE 1: SUMMARY OF MICROCOSM CONTROLS AND TREATMENTS SiREM

2701 North Harbor Drive, San Diego, California

Microcosm Name	Electron Donor Treatment	Description
ANSC	Anaerobic Sterile Control	Autoclaved and amended with mercuric chloride and sodium azide.
ANAC	Anaerobic Intrinsic (Active) Control	Unamended.
LAC	Sodium Lactate amended	Initial donor concentration of 5,520 mg/L sodium lactate and re-amended as necessary to maintain a sufficient supply.
EOS	EOS Amended	Initial donor concentration of 0.27 % EOS as oil.
LAC + KB-1®	Sodium Lactate amended	Initial donor concentration of 5,520 mg/L sodium lactate and re-amended as necessary. Bioaugmented with KB-1® culture to a target concentration of 10^6cells/liter on day 28.
EOS + KB-1®	Emulsified Oil Substrate Amended	Initial donor concentration of 0.27 % EOS as oil. Bioaugmented with KB-1® culture to a target concentration of 10^6cells/liter on day 28.

Notes:

EOS - Emulsified Oil Substrate
mg/L - milligrams per liter
LAC - 60% Sodium Lactate

TABLE 2A: SUMMARY OF MICROCOSM CHORINATED ETHENE AND ETHENE RESULTS

2701 North Harbor Drive, San Diego, California

SiREM

Treatment	Date	Day	Replicate	Chlorinated Ethenes						Methane and Ethane		comment
				PCE	TCE	cis-1,2-DCE	VC	Ethene	Total Ethenes	Ethane	Methane	
				mg/L	mg/L	mg/L	mg/L	mg/L	mmol/L	mg/L	mg/L	
Anaerobic Sterile Control	05-Apr-06	-2										Poisoned with 2.8 mL Mercuric Chloride and 0.5 mL Sodium Azide and amended the first replicate with 100 µL of resazurin
	07-Apr-06	0	ANSC-1	3.2	1.3	4.6	0.30	0.01	--	<0.010	0.12	
			ANSC-2	3.2	1.3	4.7	0.29	0.01	--	<0.010	0.12	
			ANSC-3	3.2	1.3	4.6	0.29	0.01	--	<0.010	0.11	
			Average Concentration (mg/L)	3.2	1.3	4.7	0.29	0.01	--	ND	0.11	
			Standard Deviation (mg/L)	3.5E-05	2.1E-06	9.1E-05	1.5E-05	1.6E-05	--	0.0E+00	5.6E-04	
			Average Total (mmoles)	**0.0045**	**0.0021**	**0.0096**	**0.0011**	**0.00026**	**1.8E-02**	**ND**	**0.013**	
	20-Apr-06	13	ANSC-1	3.4	1.5	5.0	0.31	0.02	--	<0.010	0.10	
			ANSC-2	3.5	1.6	4.9	0.32	0.02	--	<0.010	0.10	
			ANSC-3	3.2	1.4	4.5	0.30	0.01	--	<0.010	0.11	
			Average Concentration (mg/L)	3.4	1.5	4.8	0.31	0.02	--	ND	0.11	
			Standard Deviation (mg/L)	2.3E-04	1.5E-04	5.4E-04	3.7E-05	7.1E-05	--	0.0E+00	4.9E-04	
			Average Total (mmoles)	**0.0048**	**0.0023**	**0.0098**	**0.0012**	**0.00037**	**1.8E-02**	**ND**	**0.012**	
	04-May-06	27	ANSC-1	3.5	1.4	5.0	0.34	0.02	--	<0.010	0.12	
			ANSC-2	3.5	1.4	4.9	0.31	0.01	--	<0.010	0.10	
			ANSC-3	3.1	1.3	4.7	0.29	<0.010	--	<0.010	0.11	
			Average Concentration (mg/L)	3.4	1.4	4.9	0.31	0.01	--	ND	0.11	
			Standard Deviation (mg/L)	3.1E-04	1.1E-04	3.6E-04	8.7E-05	2.0E-04	--	0.0E+00	1.1E-03	
			Average Total (mmoles)	**0.0048**	**0.0022**	**0.01**	**0.0012**	**0.00023**	**1.8E-02**	**ND**	**0.012**	
	01-Jun-06	55	ANSC-1	3.1	1.3	4.6	0.30	0.01	--	<0.010	0.11	
			ANSC-2	2.8	1.1	4.2	0.26	<0.010	--	<0.010	0.10	
			ANSC-3	3.2	1.3	4.6	0.30	0.01	--	<0.010	0.10	
			Average Concentration (mg/L)	3.0	1.2	4.5	0.29	0.01	--	ND	0.10	
			Standard Deviation (mg/L)	3.4E-04	1.1E-04	4.0E-04	8.5E-05	1.9E-04	--	0.0E+00	6.9E-04	
			Average Total (mmoles)	**0.0043**	**0.002**	**0.0091**	**0.0011**	**0.00022**	**1.7E-02**	**ND**	**0.012**	
Anaerobic Active Control	05-Apr-06	-2										Amended the first replicate with 100 µL of resazurin
	07-Apr-06	0	ANAC-1	3.0	1.2	4.2	0.23	<0.010	--	<0.010	0.08	
			ANAC-2	3.4	1.3	4.7	0.30	0.01	--	<0.010	0.10	
			ANAC-3	3.8	1.4	4.9	0.26	<0.010	--	<0.010	0.10	
			Average Concentration (mg/L)	3.4	1.3	4.6	0.26	0.00	--	ND	0.09	
			Standard Deviation (mg/L)	5.5E-04	1.9E-04	7.3E-04	1.4E-04	1.6E-04	--	0.0E+00	1.7E-03	
			Average Total (mmoles)	**0.0048**	**0.0021**	**0.0095**	**0.001**	**0.000092**	**1.7E-02**	**ND**	**0.01**	
	20-Apr-06	13	ANAC-1	2.9	1.2	4.1	0.26	<0.010	--	<0.010	0.07	
			ANAC-2	3.0	1.3	4.3	0.29	<0.010	--	<0.010	0.08	
			ANAC-3	3.3	1.3	4.4	0.28	<0.010	--	<0.010	0.08	
			Average Concentration (mg/L)	3.1	1.3	4.3	0.27	ND	--	ND	0.07	
			Standard Deviation (mg/L)	3.1E-04	1.0E-04	3.6E-04	6.0E-05	0.0E+00	--	0.0E+00	9.8E-04	
			Average Total (mmoles)	**0.0044**	**0.002**	**0.0087**	**0.001**	**ND**	**1.6E-02**	**ND**	**0.0084**	
	04-May-06	27	ANAC-1	3.1	1.2	4.4	0.27	<0.010	--	<0.010	0.07	
			ANAC-2	3.4	1.3	4.8	0.30	0.01	--	<0.010	0.09	
			ANAC-3	3.4	1.3	4.5	0.28	<0.010	--	<0.010	0.07	
			Average Concentration (mg/L)	3.3	1.3	4.6	0.28	0.00	--	ND	0.08	
			Standard Deviation (mg/L)	2.2E-04	8.0E-05	3.2E-04	6.7E-05	1.5E-04	--	0.0E+00	1.1E-03	
			Average Total (mmoles)	**0.0047**	**0.0021**	**0.0094**	**0.0011**	**0.000086**	**1.7E-02**	**ND**	**0.0085**	
	01-Jun-06	55	ANAC-1	2.9	1.2	4.2	0.28	<0.010	--	<0.010	0.07	
			ANAC-2	2.0	1.7	4.0	0.28	<0.010	--	<0.010	0.07	
			ANAC-3	3.2	1.5	4.6	0.31	<0.010	--	<0.010	0.08	
			Average Concentration (mg/L)	2.7	1.4	4.3	0.29	ND	--	ND	0.07	
			Standard Deviation (mg/L)	8.9E-04	4.0E-04	5.7E-04	7.8E-05	0.0E+00	--	0.0E+00	5.7E-04	
			Average Total (mmoles)	**0.0038**	**0.0023**	**0.0087**	**0.0011**	**ND**	**1.6E-02**	**ND**	**0.008**	
Sodium Lactate Amended	05-Apr-06	-2										Amended the first replicate with 100 µL of resazurin
	07-Apr-06	0										Amended with sodium lactate to a target concentration of 5,520 mg/L
	07-Apr-06	0	LAC-1	3.4	1.3	4.6	0.28	<0.010	--	<0.010	0.09	
			LAC-2	3.2	1.3	4.5	0.27	<0.010	--	<0.010	0.08	
			LAC-3	3.1	1.2	4.4	0.28	<0.010	--	<0.010	0.07	
			Average Concentration (mg/L)	3.2	1.3	4.5	0.28	ND	--	ND	0.08	
			Standard Deviation (mg/L)	2.0E-04	6.6E-05	1.8E-04	2.8E-05	0.0E+00	--	0.0E+00	1.3E-03	
			Average Total (mmoles)	**0.0046**	**0.002**	**0.0093**	**0.0011**	**ND**	**1.7E-02**	**ND**	**0.0091**	
	20-Apr-06	13	LAC-1	3.1	1.3	4.3	0.27	<0.010	--	<0.010	0.07	
			LAC-2	3.0	1.2	4.3	0.27	<0.010	--	<0.010	0.06	
			LAC-3	2.7	1.2	4.1	0.26	<0.010	--	<0.010	0.07	
			Average Concentration (mg/L)	2.9	1.2	4.2	0.27	ND	--	ND	0.07	
			Standard Deviation (mg/L)	2.8E-04	8.8E-05	2.4E-04	1.8E-05	0.0E+00	--	0.0E+00	6.9E-04	
			Average Total (mmoles)	**0.0041**	**0.002**	**0.0087**	**0.001**	**ND**	**1.6E-02**	**ND**	**0.0076**	
	04-May-06	27	LAC-1	3.1	1.3	4.4	0.33	<0.010	--	<0.010	0.08	
			LAC-2	3.1	1.3	4.5	0.30	<0.010	--	<0.010	0.07	
			LAC-3	<0.010	0.59	6.4	0.32	<0.010	--	<0.010	0.06	
			Average Concentration (mg/L)	2.1	1.1	5.1	0.31	ND	--	ND	0.07	
			Standard Deviation (mg/L)	2.6E-03	6.6E-04	2.3E-03	5.7E-05	0.0E+00	--	0.0E+00	8.8E-04	
			Average Total (mmoles)	**0.003**	**0.0017**	**0.01**	**0.0012**	**ND**	**1.6E-02**	**ND**	**0.0078**	
	18-May-06	41	LAC-1	2.9	1.3	4.3	0.32	<0.010	--	<0.010	0.08	
			LAC-2	2.8	1.3	4.3	0.31	<0.010	--	<0.010	0.07	
			LAC-3	<0.010	0.18	6.3	0.28	<0.010	--	<0.010	0.06	
			Average Concentration (mg/L)	1.9	0.92	4.9	0.30	ND	--	ND	0.07	
			Standard Deviation (mg/L)	2.4E-03	1.0E-03	2.4E-03	6.5E-05	0.0E+00	--	0.0E+00	1.2E-03	
			Average Total (mmoles)	**0.0027**	**0.0015**	**0.01**	**0.0011**	**ND**	**1.5E-02**	**ND**	**0.0076**	
	01-Jun-06	55	LAC-1	2.40	1.7	4.1	0.26	<0.010	--	<0.010	0.07	
			LAC-2	2.60	1.5	4.1	0.25	<0.010	--	<0.010	0.06	
			LAC-3	0.01	0.12	6.5	0.28	<0.010	--	<0.010	0.06	
			Average Concentration (mg/L)	1.70	1.1	4.9	0.27	ND	--	ND	0.06	
			Standard Deviation (mg/L)	2.0E-03	1.4E-03	2.9E-03	5.4E-05	0.0E+00	--	0.0E+00	1.0E-03	
			Average Total (mmoles)	**0.0024**	**0.0018**	**0.01**	**0.001**	**ND**	**1.5E-02**	**ND**	**0.0071**	
	15-Jun-06	69	LAC-1	2.5	1.20	4.0	0.24	<0.010	--	<0.010	0.07	
			LAC-2	2.4	1.20	3.9	0.24	<0.010	--	<0.010	0.05	
			LAC-3	<0.010	0.10	6.3	0.26	<0.010	--	<0.010	0.05	
			Average Concentration (mg/L)	1.6	0.82	4.7	0.25	ND	--	ND	0.06	
			Standard Deviation (mg/L)	2.0E-03	9.9E-04	2.7E-03	3.5E-05	0.0E+00	--	0.0E+00	7.7E-04	
			Average Total (mmoles)	**0.0023**	**0.0013**	**0.0097**	**0.00093**	**ND**	**1.4E-02**	**ND**	**0.0065**	
EOS Amended	07-Apr-06	0										Amended the first replicate with 100 µL of resazurin
	07-Apr-06	0										Amended with EOS to a target concentration of 0.27% as oil
	07-Apr-06	0	EOS-1	1.0	0.83	3.9	0.22	<0.010	--	<0.010	0.08	
			EOS-2	1.2	0.84	4.2	0.25	<0.010	--	<0.010	0.09	
			EOS-3	2.5	1.10	4.2	0.24	<0.010	--	<0.010	0.08	
			Average Concentration (mg/L)	1.6	0.92	4.1	0.24	ND	--	ND	0.08	
			Standard Deviation (mg/L)	1.1E-03	2.3E-04	3.4E-04	6.6E-05	0.0E+00	--	0.0E+00	1.1E-03	
			Average Total (mmoles)	**0.0022**	**0.0015**	**0.0084**	**0.0009**	**ND**	**1.3E-02**	**ND**	**0.0095**	
	20-Apr-06	13	EOS-1	0.86	0.80	2.8	0.06	<0.010	--	<0.010	0.03	
			EOS-2	0.70	0.72	3.7	0.20	<0.010	--	<0.010	0.04	
			EOS-3	0.73	0.72	3.7	0.25	<0.010	--	<0.010	0.08	
			Average Concentration (mg/L)	0.76	0.75	3.4	0.17	ND	--	ND	0.05	
			Standard Deviation (mg/L)	1.2E-04	7.9E-05	1.0E-03	3.6E-04	0.0E+00	--	0.0E+00	2.7E-03	
			Average Total (mmoles)	**0.0011**	**0.0012**	**0.007**	**0.00065**	**ND**	**1.0E-02**	**ND**	**0.0058**	
	04-May-06	27	EOS-1	0.61	1.0	2.8	0.05	<0.010	--	<0.010	0.03	
			EOS-2	0.80	0.80	4.0	0.22	<0.010	--	<0.010	0.04	
			EOS-3	0.78	0.73	3.8	0.25	<0.010	--	<0.010	0.08	
			Average Concentration (mg/L)	0.73	0.84	3.5	0.17	ND	--	ND	0.05	
			Standard Deviation (mg/L)	1.5E-04	2.3E-04	1.2E-03	4.0E-04	0.0E+00	--	0.0E+00	2.7E-03	
			Average Total (mmoles)	**0.001**	**0.0013**	**0.0072**	**0.00066**	**ND**	**1.0E-02**	**ND**	**0.0055**	
	18-May-06	41	EOS-1	0.69	1.3	2.9	0.05	<0.010	--	<0.010	0.03	
			EOS-2	0.79	0.81	4.1	0.21	<0.010	--	<0.010	0.04	
			EOS-3	0.83	0.79	3.8	0.24	<0.010	--	<0.010	0.07	
			Average Concentration (mg/L)	0.77	0.96	3.6	0.17	ND	--	ND	0.05	
			Standard Deviation (mg/L)	1.0E-04	4.3E-04	1.3E-03	3.9E-04	0.0E+00	--	0.0E+00	2.6E-03	
			Average Total (mmoles)	**0.0011**	**0.0015**	**0.0074**	**0.00065**	**ND**	**1.1E-02**	**ND**	**0.0054**	
	01-Jun-06	55	EOS-1	0.72	1.5	2.8	0.06	<0.010	--	<0.010	0.03	
			EOS-2	0.69	0.69	3.5	0.23	<0.010	--	<0.010	0.07	
			EOS-3	0.03	0.06	6.2	0.2	<0.010	--	<0.010	0.04	
			Average Concentration (mg/L)	0.48	0.74	4.2	0.16	ND	--	ND	0.05	
			Standard Deviation (mg/L)	5.6E-04	1.1E-03	3.7E-03	3.4E-04	0.0E+00	--	0.0E+00	2.4E-03	
			Average Total (mmoles)	**0.00068**	**0.0012**	**0.0086**	**0.00061**	**ND**	**1.1E-02**	**ND**	**0.0054**	
	15-Jun-06	69	EOS-1	1.10	2.1	3.0	0.06	<0.010	--	<0.010	0.03	
			EOS-2	<0.010	0.16	6.4	0.21	<0.010	--	<0.010	0.04	
			EOS-3	0.77	0.77	3.6	0.24	<0.010	--	<0.010	0.07	
			Average Concentration (mg/L)	0.62	1.0	4.3	0.17	ND	--	ND	0.05	
			Standard Deviation (mg/L)	7.9E-04	1.6E-03	3.7E-03	3.6E-04	0.0E+00	--	0.0E+00	2.3E-03	
			Average Total (mmoles)	**0.00088**	**0.0016**	**0.0088**	**0.00064**	**ND**	**1.2E-02**	**ND**	**0.0053**	

TABLE 2A: SUMMARY OF MICROCOSM CHORINATED ETHENE AND ETHENE RESULTS SiREM

2701 North Harbor Drive, San Diego, California

				Chlorinated Ethenes						Methane and Ethane		comment
Treatment	Date	Day	Replicate	PCE	TCE	cis-1,2-DCE	VC	Ethene	Total Ethenes	Ethane	Methane	
				mg/L	mg/L	mg/L	mg/L	mg/L	mmol/L	mg/L	mg/L	
Sodium Lactate Amended and KB-1® Bioaugmented	05-Apr-06	-2										Amended the first replicate with 100 µL of resazurin
	07-Apr-06	0										Amended with sodium lactate to a target concentration of 5,520 mg/L
	07-Apr-06	0	LAC+KB-1-1	3.3	1.30	4.5	0.29	<0.010	--	<0.010	0.07	
			LAC+KB-1-2	3.3	1.30	4.6	0.28	<0.010	--	<0.010	0.10	
			LAC+KB-1-3	1.7	0.91	4.1	0.24	<0.010	--	<0.010	0.10	
			Average Concentration (mg/L)	2.8	1.20	4.4	0.27	ND	--	ND	0.09	
			Standard Deviation (mg/L)	1.3E-03	3.5E-04	5.1E-04	1.0E-04	0.0E+00	--	0.0E+00	1.7E-03	
			Average Total (mmoles)	**0.004**	**0.0019**	**0.009**	**0.001**	**ND**	**1.6E-02**	**ND**	**0.01**	
	20-Apr-06	13	LAC+KB-1-1	2.8	1.4	4.0	0.24	<0.010	--	<0.010	0.09	
			LAC+KB-1-2	3.0	1.2	4.3	0.27	<0.010	--	<0.010	0.09	
			LAC+KB-1-3	2.6	1.1	3.8	0.24	0.01	--	<0.010	0.17	
			Average Concentration (mg/L)	2.8	1.2	4.0	0.25	0.00	--	ND	0.12	
			Standard Deviation (mg/L)	2.4E-04	2.5E-04	5.1E-04	8.2E-05	1.6E-04	--	0.0E+00	4.9E-03	
			Average Total (mmoles)	**0.004**	**0.002**	**0.0083**	**0.00095**	**0.00009**	**1.5E-02**	**ND**	**0.013**	
	04-May-06	27	LAC+KB-1-1	3.1	1.8	4.2	0.26	<0.010	--	<0.010	0.07	
			LAC+KB-1-2	<0.010	0.09	6.8	0.28	0.01	--	<0.010	0.09	
			LAC+KB-1-3	<0.010	0.13	6.1	0.21	<0.010	--	<0.010	0.07	
			Average Concentration (mg/L)	1.0	0.68	5.7	0.25	0.00	--	ND	0.08	
			Standard Deviation (mg/L)	2.5E-03	1.6E-03	2.7E-03	1.4E-04	1.6E-04	--	0.0E+00	1.7E-03	
			Average Total (mmoles)	**0.0015**	**0.0011**	**0.012**	**0.00096**	**0.000091**	**1.6E-02**	**ND**	**0.0084**	
	05-May-06	28										Bioaugmented with KB-1® to a target concentration of 10^6 cells/L
	12-May-06	35	LAC+KB-1-1	1.4	1.5	5.1	0.33	<0.010	--	<0.010	0.09	
			LAC+KB-1-2	<0.010	0.08	6.7	0.29	0.01	--	<0.010	0.08	
			Average Concentration (mg/L)	0.68	0.78	5.9	0.31	0.01	--	ND	0.08	
			Standard Deviation (mg/L)	1.4E-03	1.6E-03	2.2E-03	1.0E-04	1.8E-04	--	0.0E+00	2.1E-04	
			Average Total (mmoles)	**0.00096**	**0.0012**	**0.012**	**0.0012**	**0.00012**	**1.5E-02**	**ND**	**0.0095**	
	18-May-06	41	LAC+KB-1-1	0.14	0.08	6.7	0.33	0.01	--	<0.010	0.17	
			LAC+KB-1-2	<0.010	0.09	6.7	0.29	0.02	--	<0.010	0.09	
			LAC+KB-1-3	<0.010	0.15	6.7	0.31	0.02	--	<0.010	0.14	
			Average Concentration (mg/L)	0.05	0.11	6.7	0.31	0.02	--	ND	0.13	
			Standard Deviation (mg/L)	1.2E-04	6.2E-05	3.6E-05	6.9E-05	1.2E-04	--	0.0E+00	4.6E-03	
			Average Total (mmoles)	**0.000067**	**0.00017**	**0.014**	**0.0012**	**0.00041**	**1.6E-02**	**ND**	**0.015**	
	25-May-06	48	LAC+KB-1-1	0.13	0.08	5.9	0.48	0.01	--	<0.010	0.16	
			LAC+KB-1-2	<0.010	0.18	6.5	0.31	<0.010	--	<0.010	0.07	
			LAC+KB-1-3	<0.010	0.68	3.6	0.77	0.02	--	<0.010	0.05	
			Average Concentration (mg/L)	0.05	0.31	5.3	0.52	0.01	--	ND	0.09	
			Standard Deviation (mg/L)	1.1E-04	5.2E-04	3.2E-03	8.8E-04	2.3E-04	--	0.0E+00	6.6E-03	
			Average Total (mmoles)	**0.000063**	**0.0005**	**0.011**	**0.002**	**0.00025**	**1.4E-02**	**ND**	**0.011**	
	01-Jun-06	55	LAC+KB-1-1	<0.010	0.05	3.4	2.00	0.14	--	<0.010	0.19	
			LAC+KB-1-2	<0.010	0.08	6.6	0.31	0.01	--	<0.010	0.09	
			LAC+KB-1-3	<0.010	0.06	6.5	0.33	0.01	--	<0.010	0.11	
			Average Concentration (mg/L)	ND	0.07	5.5	0.88	0.05	--	ND	0.13	
			Standard Deviation (mg/L)	0.0E+00	2.6E-05	3.7E-03	3.7E-03	1.8E-03	--	0.0E+00	6.0E-03	
			Average Total (mmoles)	**ND**	**0.0001**	**0.011**	**0.0033**	**0.0013**	**1.6E-02**	**ND**	**0.015**	
	08-Jun-06	62	LAC+KB-1-1	0.18	0.02	0.016	0.25	0.62	--	<0.010	0.20	
			LAC+KB-1-2	<0.010	0.03	6.6	0.30	0.02	--	<0.010	0.10	
			LAC+KB-1-3	<0.010	0.04	6.3	0.34	<0.010	--	<0.010	0.08	
			Average Concentration (mg/L)	0.06	0.03	4.3	0.30	0.21	--	ND	0.12	
			Standard Deviation (mg/L)	1.5E-04	1.2E-05	7.6E-03	1.8E-04	8.7E-03	--	0.0E+00	7.5E-03	
			Average Total (mmoles)	**0.000086**	**0.000046**	**0.0088**	**0.0011**	**0.0052**	**1.5E-02**	**ND**	**0.014**	
	12-Jun-06	66										Amended with sodium lactate to a target concentration of 5,520 mg/L
	15-Jun-06	69	LAC+KB-1-1	0.15	0.02	<0.010	0.07	0.40	--	<0.010	0.27	
			LAC+KB-1-2	<0.010	0.08	6.5	0.35	<0.010	--	<0.010	0.08	
			LAC+KB-1-3	<0.010	0.09	6.2	0.47	<0.010	--	<0.010	0.08	
			Average Concentration (mg/L)	0.05	0.06	4.3	0.30	0.13	--	ND	0.14	
			Standard Deviation (mg/L)	1.2E-04	5.7E-05	7.6E-03	7.9E-04	5.7E-03	--	0.0E+00	1.2E-02	
			Average Total (mmoles)	**0.00007**	**0.0001**	**0.0087**	**0.0011**	**0.0033**	**1.3E-02**	**ND**	**0.016**	
	22-Jun-06	76	LAC+KB-1-1	0.20	0.02	<0.010	0.12	0.48	--	<0.010	1.1	
			LAC+KB-1-2	<0.010	0.32	6.3	0.30	<0.010	--	<0.010	0.07	
			LAC+KB-1-3	<0.010	0.15	5.2	0.50	<0.010	--	<0.010	0.09	
			Average Concentration (mg/L)	0.07	0.16	3.8	0.30	0.16	--	ND	0.42	
			Standard Deviation (mg/L)	1.7E-04	2.4E-04	6.9E-03	7.2E-04	6.9E-03	--	0.0E+00	6.6E-02	
			Average Total (mmoles)	**0.000096**	**0.00026**	**0.0079**	**0.0011**	**0.004**	**1.3E-02**	**ND**	**0.047**	
EOS Amended and KB-1® Bioaugmented	05-Apr-06	-2										Amended the first replicate with 100 µL of resazurin
	07-Apr-06	0										Amended with EOS to a target concentration of 0.27% as oil
	07-Apr-06	0	EOS-KB-1-1	0.87	0.73	4.0	0.25	<0.010	--	<0.010	0.09	
			EOS-KB-1-2	0.91	0.76	4.0	0.28	0.01	--	<0.010	0.13	
			EOS-KB-1-3	3.5	1.30	4.7	0.30	0.01	--	<0.010	0.10	
			Average Concentration (mg/L)	1.8	0.93	4.2	0.28	0.01	--	ND	0.11	
			Standard Deviation (mg/L)	2.1E-03	5.1E-04	7.7E-04	9.2E-05	1.6E-04	--	0.0E+00	2.3E-03	
			Average Total (mmoles)	**0.0025**	**0.0015**	**0.0087**	**0.001**	**0.00018**	**1.4E-02**	**ND**	**0.012**	
	20-Apr-06	13	EOS-KB-1-1	<0.010	0.08	5.2	0.08	<0.010	--	<0.010	0.03	
			EOS-KB-1-2	0.63	0.72	3.8	0.25	<0.010	--	<0.010	0.08	
			EOS-KB-1-3	0.77	0.77	3.8	0.28	0.01	--	<0.010	0.11	
			Average Concentration (mg/L)	0.47	0.52	4.3	0.20	0.00	--	ND	0.08	
			Standard Deviation (mg/L)	5.8E-04	6.1E-04	1.7E-03	4.0E-04	1.7E-04	--	0.0E+00	4.7E-03	
			Average Total (mmoles)	**0.00067**	**0.00083**	**0.0088**	**0.00077**	**0.000097**	**1.1E-02**	**ND**	**0.0085**	
	04-May-06	27	EOS-KB-1-1	<0.010	0.06	5.6	0.09	<0.010	--	<0.010	0.04	
			EOS-KB-1-2	0.72	0.72	3.7	0.24	0.02	--	<0.010	0.10	
			EOS-KB-1-3	0.86	0.77	3.7	0.25	0.01	--	<0.010	0.11	
			Average Concentration (mg/L)	0.53	0.52	4.3	0.19	0.01	--	ND	0.08	
			Standard Deviation (mg/L)	6.6E-04	6.3E-04	2.3E-03	3.5E-04	2.3E-04	--	0.0E+00	4.0E-03	
			Average Total (mmoles)	**0.00075**	**0.00082**	**0.0088**	**0.00074**	**0.00025**	**1.1E-02**	**ND**	**0.0092**	
	05-May-06	28										Bioaugmented with KB-1® to a target concentration of 10^6 cells/L
	12-May-06	35	EOS-KB-1-1	<0.010	0.04	4.5	0.11	<0.010	--	<0.010	0.04	
			EOS-KB-1-2	<0.010	0.04	5.9	0.76	0.02	--	<0.010	0.12	
			EOS-KB-1-3	0.09	0.03	6.2	0.69	0.02	--	<0.010	0.13	
			Average Concentration (mg/L)	0.03	0.04	5.5	0.52	0.02	--	ND	0.10	
			Standard Deviation (mg/L)	7.3E-05	1.4E-05	1.8E-03	1.3E-03	3.1E-04	--	0.0E+00	5.4E-03	
			Average Total (mmoles)	**0.000042**	**0.000059**	**0.011**	**0.002**	**0.00036**	**1.3E-02**	**ND**	**0.011**	
	18-May-06	41	EOS-KB-1-1	<0.010	0.08	4.6	0.36	<0.010	--	<0.010	0.05	
			EOS-KB-1-2	<0.010	0.09	<0.010	<0.010	0.61	--	<0.010	0.15	
			EOS-KB-1-3	0.10	0.06	4.9	1.3	0.06	--	<0.010	0.13	
			Average Concentration (mg/L)	0.03	0.08	3.2	0.57	0.22	--	ND	0.11	
			Standard Deviation (mg/L)	8.0E-05	2.6E-05	5.6E-03	2.6E-03	8.3E-03	--	0.0E+00	6.2E-03	
			Average Total (mmoles)	**0.000046**	**0.00012**	**0.0065**	**0.0022**	**0.0055**	**1.4E-02**	**ND**	**0.012**	
	25-May-06	48	EOS-KB-1-1	<0.010	0.10	6.1	0.27	0.01	--	<0.010	0.11	
			EOS-KB-1-2	<0.010	0.07	<0.010	<0.010	0.57	--	<0.010	0.56	
			EOS-KB-1-3	0.11	0.05	2.3	2.0	0.23	--	<0.010	0.13	
			Average Concentration (mg/L)	0.04	0.07	2.8	0.77	0.27	--	ND	0.27	
			Standard Deviation (mg/L)	8.7E-05	4.4E-05	6.3E-03	4.2E-03	6.9E-03	--	0.0E+00	2.9E-02	
			Average Total (mmoles)	**0.00005**	**0.00011**	**0.0057**	**0.0029**	**0.0067**	**1.5E-02**	**ND**	**0.03**	
	01-Jun-06	55	EOS-KB-1-1	<0.010	0.22	2.30	1.3	0.05	--	<0.010	0.05	
			EOS-KB-1-2	<0.010	0.06	<0.010	<0.010	0.59	--	<0.010	1.1	
			EOS-KB-1-3	0.11	0.04	0.03	0.33	0.76	--	<0.010	0.17	
			Average Concentration (mg/L)	0.04	0.11	0.78	0.55	0.47	--	ND	0.44	
			Standard Deviation (mg/L)	9.4E-05	1.5E-04	2.7E-03	2.6E-03	9.2E-03	--	0.0E+00	6.5E-02	
			Average Total (mmoles)	**0.000054**	**0.00017**	**0.0016**	**0.0021**	**0.012**	**1.6E-02**	**ND**	**0.049**	
	08-Jun-06	62	EOS-KB-1-1	<0.010	0.22	0.78	1.3	0.24	--	<0.010	0.06	
			EOS-KB-1-2	<0.010	0.05	<0.010	<0.010	0.54	--	<0.010	1.6	
			EOS-KB-1-3	0.13	0.03	<0.010	<0.010	0.73	--	<0.010	0.31	
			Average Concentration (mg/L)	0.04	0.10	0.26	0.43	0.51	--	ND	0.66	
			Standard Deviation (mg/L)	1.0E-04	1.7E-04	9.3E-04	2.8E-03	6.1E-03	--	0.0E+00	9.5E-02	
			Average Total (mmoles)	**0.00006**	**0.00016**	**0.00054**	**0.0016**	**0.013**	**1.5E-02**	**ND**	**0.075**	
	15-Jun-06	69	EOS-KB-1-1	<0.010	0.10	0.02	0.06	0.43	--	<0.010	0.05	
			EOS-KB-1-2	<0.010	0.10	<0.010	<0.010	0.57	--	<0.010	2.4	
			EOS-KB-1-3	0.15	0.06	<0.010	<0.010	0.70	--	<0.010	0.37	
			Average Concentration (mg/L)	0.05	0.09	0.01	0.02	0.57	--	ND	0.95	
			Standard Deviation (mg/L)	1.2E-04	4.0E-05	1.9E-05	1.3E-04	3.4E-03	--	0.0E+00	1.5E-01	
			Average Total (mmoles)	**0.000069**	**0.00014**	**0.000011**	**0.000073**	**0.014**	**1.4E-02**	**ND**	**0.11**	
	22-Jun-06	76	EOS-KB-1-1	<0.010	0.04	<0.010	<0.010	0.42	--	<0.010	0.20	
			EOS-KB-1-2	<0.010	0.04	<0.010	<0.010	0.50	--	<0.010	3.1	
			EOS-KB-1-3	0.15	0.03	<0.010	<0.010	0.71	--	<0.010	0.51	
			Average Concentration (mg/L)	0.05	0.04	ND	ND	0.55	--	ND	1.3	
			Standard Deviation (mmoles)	1.2E-04	1.1E-05	0.0E+00	0.0E+00	3.7E-03	--	0.0E+00	1.8E-01	
			Average Total mmoles	**0.000069**	**0.000057**	**ND**	**ND**	**0.013**	**1.3E-02**	**ND**	**0.14**	

Notes:

ANAC - anaerobic active control
ANSC - anaerobic sterile control
cells/L - cells per liter
cis -1,2-DCE - *cis* -1,2-dichloroethene
LAC - sodium lactate
mg/L - milligrams per liter
µL - microliter
mmoles - millimoles
mmol/bottle - millimoles per bottle
ND - not detected
% - percent
TCE - trichloroethene
VC - vinyl chloride
-- - not analyzed/not applicable

TABLE 2B: SUMMARY OF MICROCOSM ANION RESULTS

SIREM

2701 North Harbor Drive, San Diego, California

TREATMENT	DATE	DAY	Treatment Replicate	Lactate	Chloride	Nitrite	Nitrate	Sulphate	Bromide	Phosphate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Anaerobic Sterile Control	7-Apr-06	0	ANSC-1	5.7	733	<0.28	15	286	3.2	<0.57
			ANSC-2	4.5	769	<0.28	15	316	4.0	<0.57
			ANSC-3	3.5	774	<0.28	15	293	4.0	<0.57
			Average Concentration	**4.6**	**758**	**ND**	**15**	**298**	**3.7**	**ND**
	20-Apr-06	13	ANSC-1	5.7	795	<0.28	16	313	2.4	<0.57
			ANSC-2	6.0	842	<0.28	17	329	4.1	<0.57
			ANSC-3	5.7	814	<0.28	16	314	2.6	<0.57
			Average Concentration	**5.8**	**817**	**ND**	**16**	**319**	**3.0**	**ND**
	4-May-06	27	ANSC-1	3.4	782	<0.28	15	288	2.5	<0.57
			ANSC-2	3.6	986	<0.28	18	389	3.5	<0.57
			ANSC-3	3.3	697	<0.28	13	261	2.6	<0.57
			Average Concentration	**3.5**	**822**	**ND**	**16**	**313**	**2.9**	**ND**
	1-Jun-06	55	ANSC-1	8.5	778	<0.28	14	314	6.8	<0.57
			ANSC-2	9.2	827	<0.28	15	326	6.5	<0.57
			ANSC-3	8.3	811	<0.28	14	319	6.2	<0.57
			Average Concentration	**8.7**	**805**	**ND**	**14**	**320**	**6.5**	**ND**
Anaerobic Active Control	7-Apr-06	0	ANAC-1	3.4	683	<0.28	<0.1	285	1.1	<0.57
			ANAC-2	3.4	694	<0.28	<0.1	284	1.4	<0.57
			ANAC-3	4.0	669	<0.28	<0.1	280	1.5	<0.57
			Average Concentration	**3.6**	**682**	**ND**	**ND**	**283**	**1.3**	**ND**
	20-Apr-06	13	ANAC-1	3.0	759	<0.28	<0.1	322	5.8	<0.57
			ANAC-2	3.3	765	<0.28	<0.1	320	4.1	<0.57
			ANAC-3	2.8	743	<0.28	<0.1	321	4.1	<0.57
			Average Concentration	**3.0**	**756**	**ND**	**ND**	**321**	**4.6**	**ND**
	4-May-06	27	ANAC-1	3.1	702	<0.28	<0.1	274	5.4	<0.57
			ANAC-2	3.8	809	<0.28	<0.1	344	4.4	<0.57
			ANAC-3	3.4	707	<0.28	<0.1	317	3.7	<0.57
			Average Concentration	**3.4**	**739**	**ND**	**ND**	**312**	**4.5**	**ND**
	1-Jun-06	55	ANAC-1	5.7	724	<0.28	<0.1	315	6.5	<0.57
			ANAC-2	5.7	739	<0.28	<0.1	318	4.8	<0.57
			ANAC-3	5.8	702	<0.28	<0.1	314	4.5	<0.57
			Average Concentration	**5.7**	**722**	**ND**	**ND**	**316**	**5.2**	**ND**
Sodium Lactate Amended	7-Apr-06	0	LAC-1	1833	653	<0.28	<0.1	278	1.7	<0.57
			LAC-2	1841	654	<0.28	<0.1	280	1.8	<0.57
			LAC-3	2049	682	<0.28	<0.1	281	1.9	<0.57
			Average Concentration	**1908**	**663**	**ND**	**ND**	**280**	**1.8**	**ND**
	20-Apr-06	13	LAC-1	1778	706	<0.28	<0.1	284	1.8	<0.57
			LAC-2	2087	726	<0.28	<0.1	303	1.8	<0.57
			LAC-3	2082	762	<0.28	<0.1	304	1.9	<0.57
			Average Concentration	**1982**	**731**	**ND**	**ND**	**297**	**1.8**	**ND**
	4-May-06	27	LAC-1	1454	677	<0.28	<0.1	8.5	1.8	<0.57
			LAC-2	1700	667	<0.28	<0.1	80	1.8	<0.57
			LAC-3	1522	709	<0.28	<0.1	4.7	1.9	<0.57
			Average Concentration	**1558**	**684**	**ND**	**ND**	**31**	**1.8**	**ND**
	1-Jun-06	55	LAC-1	931	674	<0.28	<0.1	2.8	2.4	<0.57
			LAC-2	912	676	<0.28	<0.1	12	0.51	<0.57
			LAC-3	882	713	<0.28	<0.1	5.3	2.6	<0.57
			Average Concentration	**909**	**688**	**ND**	**ND**	**6.7**	**1.8**	**ND**
EOS Amended	7-Apr-06	0	EOS-1	124	675	<0.28	<0.1	285	1.6	<0.57
			EOS-2	93	682	<0.28	<0.1	294	1.5	<0.57
			EOS-3	90	687	<0.28	<0.1	288	1.4	<0.57
			Average Concentration	**102**	**681**	**ND**	**ND**	**289**	**1.5**	**ND**
	20-Apr-06	13	EOS-1	91	751	<0.28	<0.1	313	3.7	<0.57
			EOS-2	89	759	<0.28	<0.1	312	3.8	<0.57
			EOS-3	54	746	<0.28	<0.1	304	3.3	<0.57
			Average Concentration	**78**	**752**	**ND**	**ND**	**310**	**3.6**	**ND**
	4-May-06	27	EOS-1	108	712	<0.28	<0.1	288	3.0	<0.57
			EOS-2	104	761	<0.28	<0.1	253	3.6	<0.57
			EOS-3	117	831	<0.28	<0.1	365	3.9	<0.57
			Average Concentration	**109**	**768**	**ND**	**ND**	**302**	**3.5**	**ND**
	1-Jun-06	55	EOS-1	159	707	<0.28	<0.1	254	3.6	<0.57
			EOS-2	194	721	<0.28	<0.1	9.4	3.6	<0.57
			EOS-3	78	726	<0.28	<0.1	301	4.3	<0.57
			Average Concentration	**144**	**718**	**ND**	**ND**	**188**	**3.8**	**ND**
Sodium Lactate Amended and KB-1® Bioaugmented	7-Apr-06	0	LAC+KB-1-1	1558	648	<0.28	<0.1	273	1.8	<0.57
			LAC+KB-1-2	1576	664	<0.28	<0.1	277	1.8	<0.57
			LAC+KB-1-3	1646	659	<0.28	<0.1	279	1.8	<0.57
			Average Concentration	**1593**	**657**	**ND**	**ND**	**277**	**1.8**	**ND**
	20-Apr-06	13	LAC+KB-1-1	1754	738	<0.28	<0.1	309	1.9	<0.57
			LAC+KB-1-2	1730	741	<0.28	<0.1	304	1.8	<0.57
			LAC+KB-1-3	1245	447	<0.28	<0.1	181	1.1	<0.57
			Average Concentration	**1576**	**642**	**ND**	**ND**	**265**	**1.6**	**ND**
	4-May-06	27	LAC+KB-1-1	1749	786	<0.28	<0.1	169	2.1	<0.57
			LAC+KB-1-2	818	775	<0.28	<0.1	325	1.9	<0.57
			LAC+KB-1-3	778	696	<0.28	<0.1	283	1.8	<0.57
			Average Concentration	**1115**	**752**	**ND**	**ND**	**259**	**1.9**	**ND**
	1-Jun-06	55	LAC+KB-1-1	784	643	<0.28	<0.1	2.0	2.3	<0.57
			LAC+KB-1-2	744	680	<0.28	<0.1	266	2.3	<0.57
			LAC+KB-1-3	760	669	<0.28	<0.1	240	2.3	<0.57
			Average Concentration	**763**	**664**	**ND**	**ND**	**169**	**2.3**	**ND**

TABLE 2B: SUMMARY OF MICROCOSM ANION RESULTS

SIREM

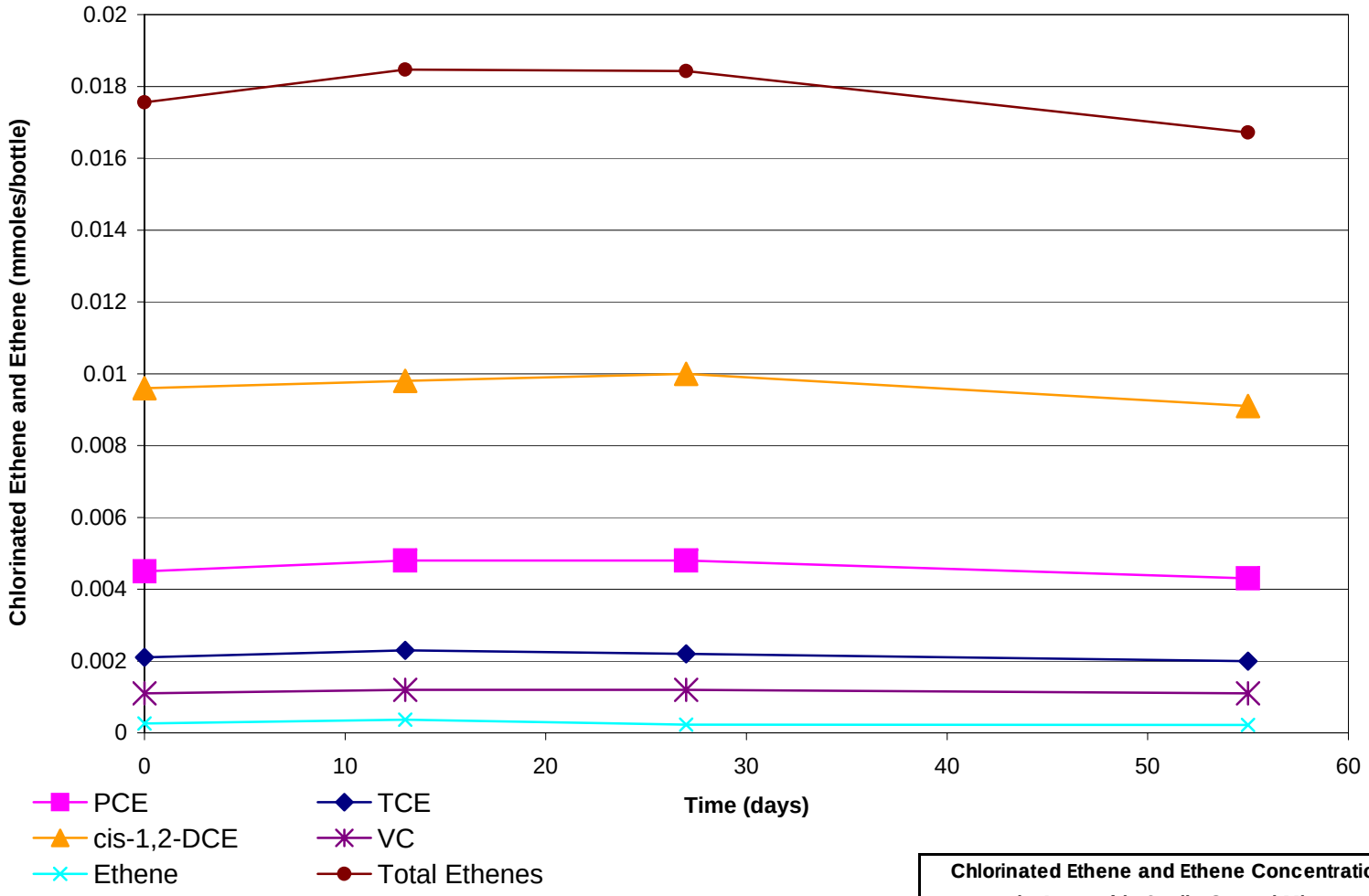
2701 North Harbor Drive, San Diego, California

TREATMENT	DATE	DAY	Treatment Replicate	Lactate	Chloride	Nitrite	Nitrate	Sulphate	Bromide	Phosphate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EOS Amended and KB-1® Bioaugmented	7-Apr-06	0	EOS+KB-1-1	113	634	<0.28	<0.1	275	1.4	<0.57
			EOS+KB-1-2	95	664	<0.28	<0.1	281	1.5	<0.57
			EOS+KB-1-3	85	687	<0.28	<0.1	294	1.4	<0.57
			Average Concentration	**98**	**662**	**ND**	**ND**	**283**	**1.4**	**ND**
	20-Apr-06	13	EOS+KB-1-1	71	751	<0.28	<0.1	316	3.7	<0.57
			EOS+KB-1-2	91	756	<0.28	<0.1	306	3.7	<0.57
			EOS+KB-1-3	43	735	<0.28	<0.1	294	3.4	<0.57
			Average Concentration	**69**	**747**	**ND**	**ND**	**305**	**3.6**	**ND**
	4-May-06	27	EOS+KB-1-1	96	931	<0.28	<0.1	394	4.6	<0.57
			EOS+KB-1-2	122	892	<0.28	<0.1	228	3.8	<0.57
			EOS+KB-1-3	103	699	<0.28	<0.1	232	3.1	<0.57
			Average Concentration	**107**	**841**	**ND**	**ND**	**285**	**3.8**	**ND**
	1-Jun-06	55	EOS+KB-1-1	183	696	<0.28	<0.1	61	2.2	<0.57
			EOS+KB-1-2	195	704	<0.28	<0.1	2.5	2.3	<0.57
			EOS+KB-1-3	254	711	<0.28	<0.1	9.2	2.4	<0.57
			Average Concentration	**211**	**704**	**ND**	**ND**	**24**	**2.3**	**ND**

Notes:

ANAC - anaerobic active control
ANSC - anaerobic sterile control
LAC - sodium lactate
mg/L - milligrams per liter
NZ - newman zone
ND - not detected
-- - not analyzed/not applicable

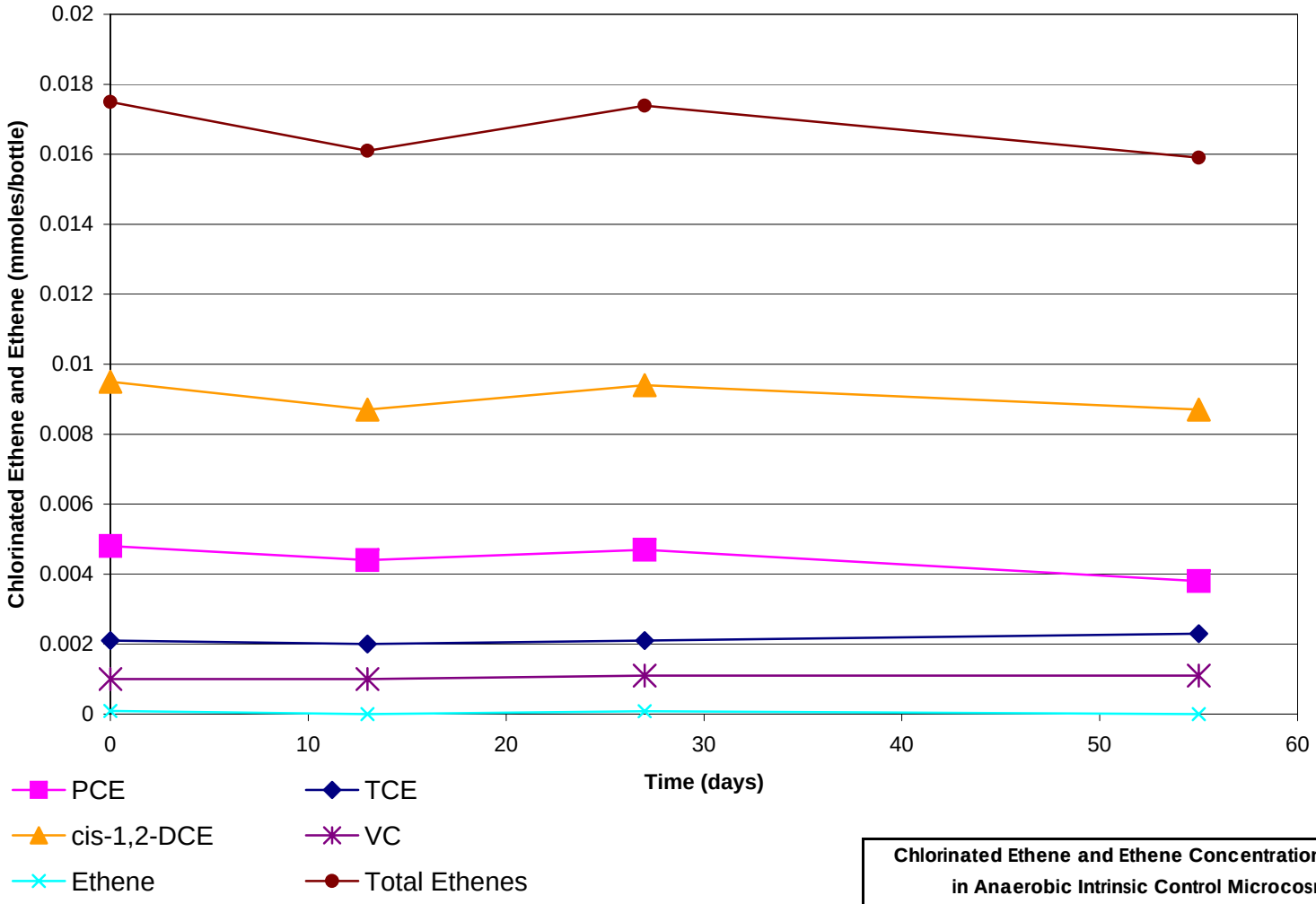
FIGURES



Chlorinated Ethene and Ethene Concentration Trends in Anaerobic Sterile Control Microcosms

2701 North Harbor Drive, San Diego, California

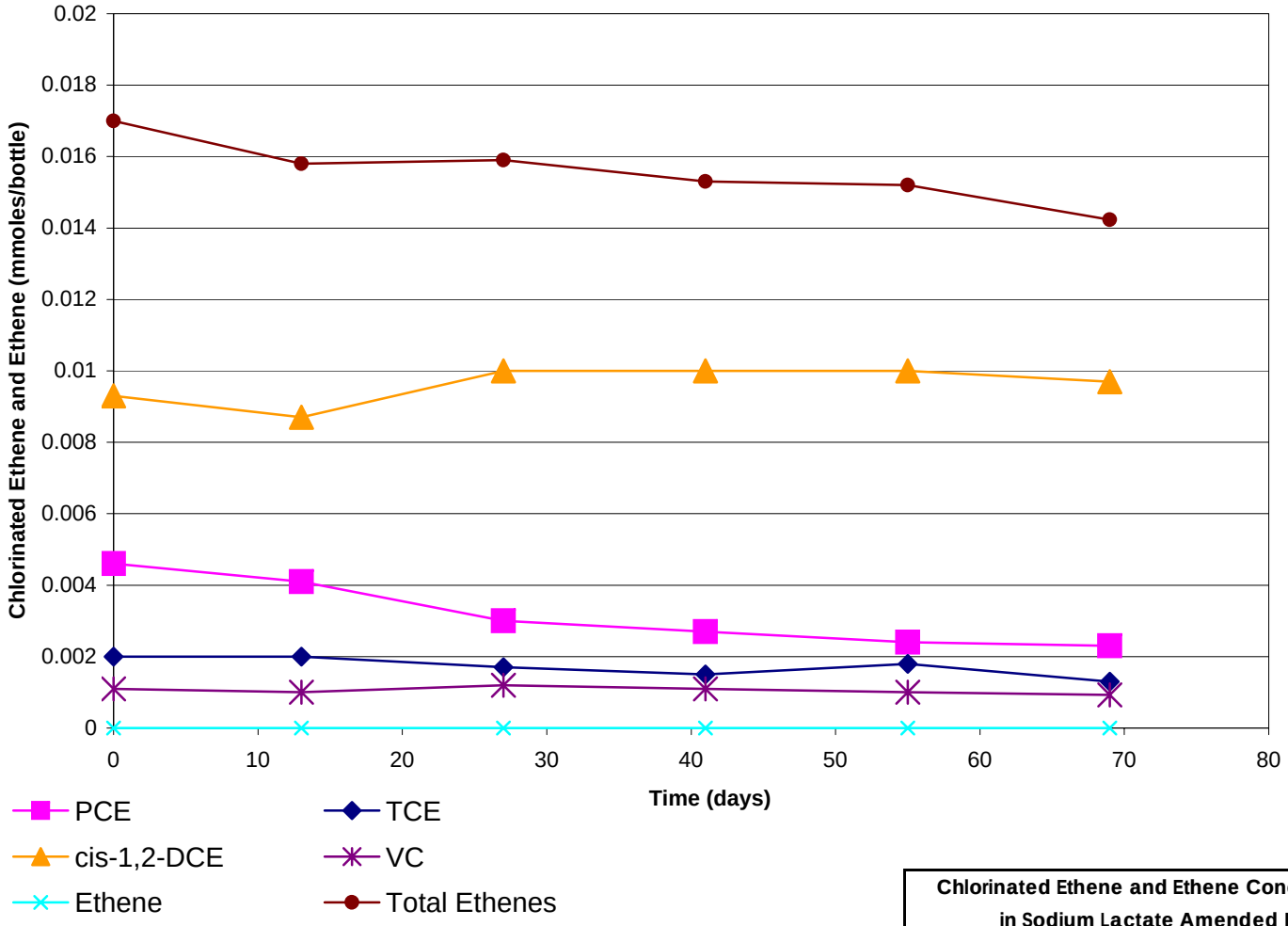
22-Jun-06	Figure: **1**	SiREM



Chlorinated Ethene and Ethene Concentration Trends in Anaerobic Intrinsic Control Microcosms

2701 North Harbor Drive, San Diego, California

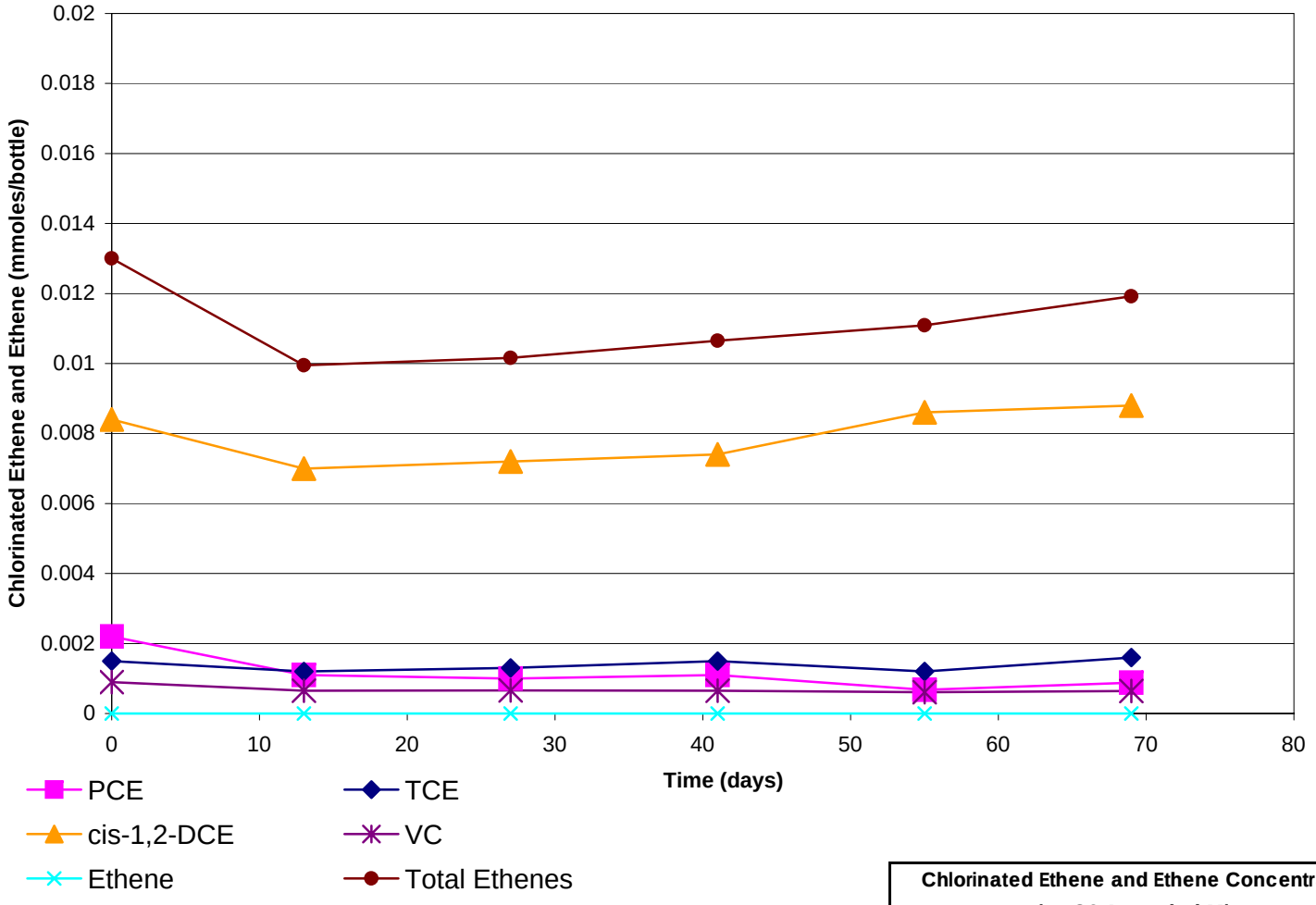
22-Jun-06	Figure: **2**	SiREM



Chlorinated Ethene and Ethene Concentration Trends in Sodium Lactate Amended Microcosms

2701 North Harbor Drive, San Diego, California

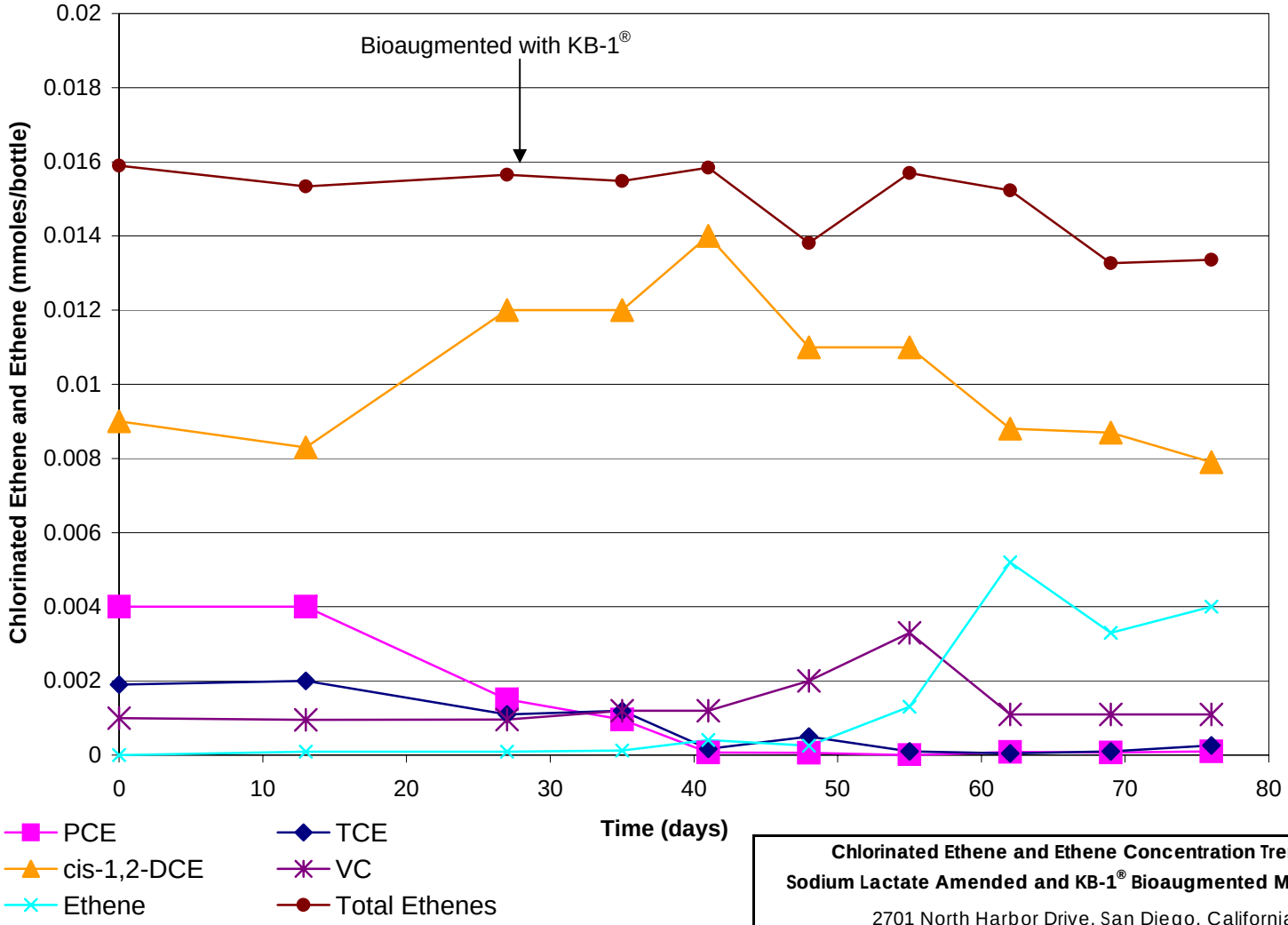
22-Jun-06	Figure: **3**	SiREM



Chlorinated Ethene and Ethene Concentration Trends in EOS Amended Microcosms

2701 North Harbor Drive, San Diego, California

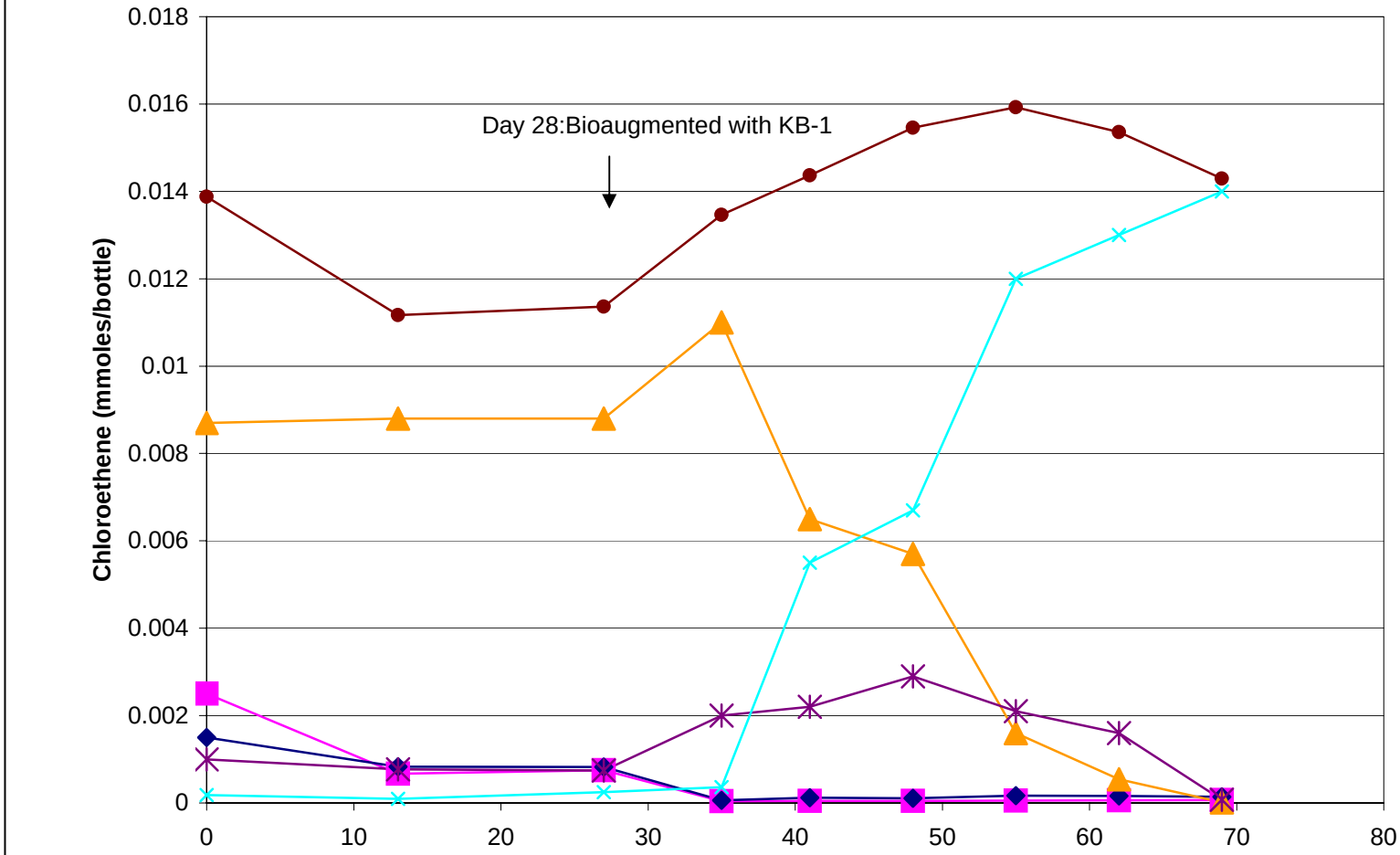
22-Jun-06	Figure: **4**	SiREM



Chlorinated Ethene and Ethene Concentration Trends in Sodium Lactate Amended and KB-1® Bioaugmented Microcosms

2701 North Harbor Drive, San Diego, California

22-Jun-06	Figure: **5**	SiREM



Chlorinated Ethene and Ethene Concentration Trends in EOS Amended and KB-1® Bioaugmented Microcosms

2701 North Harbor Drive, San Diego, California

22-Jun-06	Figure: **6**	SiREM

APPENDIX A: Henry's Law Calculation

The following Henry's Law calculation was used to convert aqueous concentrations (Table 2A) to total mmoles of each analyte per microcosm bottle (Figures 1 to 6):

$$\text{Total mmoles} = \frac{C_{liq} \times (V_{liq} + H \times V_{gas})}{\text{Molecular Weight (mg/mmol)}}.$$

Where

C_{liq} = liquid concentration (mg/L)
V_{liq} = liquid volume (0.18 L) per bottle
V_{gas} = headspace volume (0.04 L) per bottle
H = Henry's Law constant (dimensionless)

The Henry's Law constants used are summarized in the table below.

Analyte	Henry's Law Constant [a] (dimensionless)
Trichloroethene	0.48
cis-1,2-dichloroethene	0.31
Vinyl chloride	0.95
Ethene	8.76
Methane	27.2

[a] Source: Montgomery, J.H. 2000. *Groundwater Chemicals Desk Reference, Third Edition.* CRC Press LLC, Boca Raton, Fl.

APPENDIX F

SITE SPECIFIC BACKGROUND EVALUATION

APPENDIX A
SITE-SPECIFIC BACKGROUND EVALUATION

Prepared by S.S. Papadopoulos and Associates, Inc.
12 May 2005

A.1 Methodology

Inorganic constituents such as metals and cyanide occur naturally in the environment. A determination of whether site-related activities have resulted in elevated concentrations of these constituents requires an understanding of the range of background concentrations representative of natural conditions. Existing site data for metals and cyanide in soil and groundwater were evaluated to derive site-specific maximum background concentrations, following guidance provided in the California Department of Toxic Substances Control document *Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities, Final Policy* (DTSC, 1997). The site-specific maximum background concentrations for soil and groundwater are presented in Table 3-1.

The 2003 site-specific dataset for soil contains between 408 and 431 analytical results for each metal, 161 results for total cyanide, and 159 results for amenable cyanide in soil samples collected across the site. The existing site-specific dataset for groundwater contains between 121 and 127 analytical results for each metal, and 19 results each for total cyanide, and amenable cyanide in groundwater samples collected across the site.

The soil and groundwater datasets include samples from both potentially impacted and non-impacted areas. For each constituent, each dataset may therefore represent either one population, representative of background conditions, or two or more separate populations, one representative of background conditions and the other(s) impacted by facility-related activities. The impacted soil and groundwater sample populations, if present, are characterized by higher concentrations, relative to background, of those constituents. The soil and groundwater datasets were statistically analyzed to determine whether the two or more populations could be identified and distinguished, and to estimate the maximum concentration of each constituent that could be attributed to the background population.

For each constituent in each of the two media, the statistical evaluation included:

1. An initial screening to determine whether the dataset contained sufficient values greater than the detection limit (at least 10% of samples and at least 10 samples for each constituent),

2. Computation and review of summary statistics for concentrations and log-transformed concentrations of each constituent in each media,

3. Construction and review of histograms, box-and-whisker percentile plots, and normal quantile plots of concentrations and log-transformed concentrations of each constituent in each media, to determine whether the dataset more closely follows a normal or log-normal distribution (both analyses are presented for each constituent), to identify whether more than one population is evident and to estimate the maximum concentration associated with the background population, and

4. Comparison of the site-specific maximum background concentrations in soil with published maximum background values for these same metals in California and Western U.S. soils.

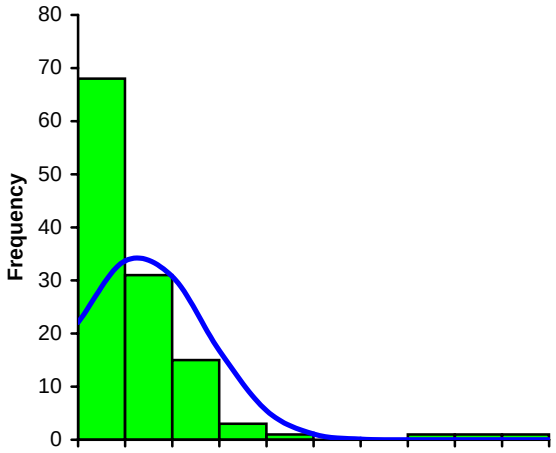
A.2 Results

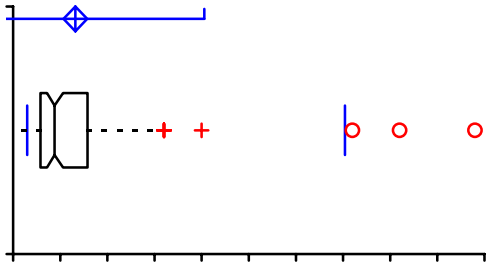
The statistical analyses are presented in Exhibit A. Beryllium, silver, thallium, and total and amenable cyanide were not detected frequently enough in soils to permit a meaningful analysis. In groundwater, there were insufficient detections for antimony, arsenic, beryllium, cadmium, copper, lead, mercury, silver, thallium, and total and amenable cyanide (Table 3-1).

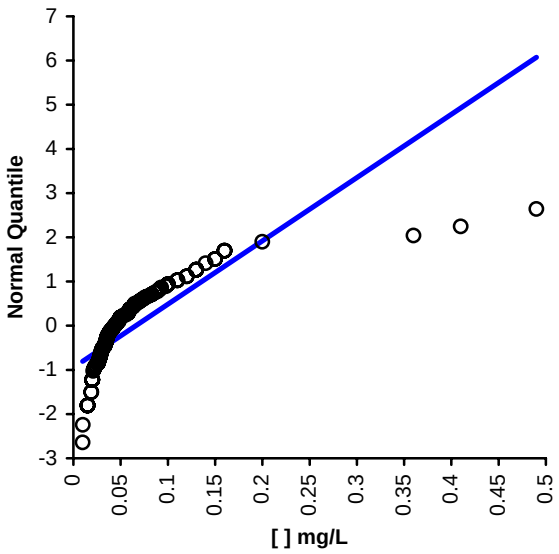
For arsenic, barium, and vanadium in soil, and for barium in groundwater, quantile plots of concentration or log-transformed concentration plot as a single linear trend, indicating a single sample population. For these, the maximum observed value is taken as the maximum site-specific background concentration. For the remaining metals, quantile plots of either concentration or log-transformed concentration indicated a break in slope. The population nearest the origin was taken as the background population, and the maximum background concentration was estimated from the concentration corresponding to the break in slope on the quantile diagram. The interpreted break in slope is indicated by a line on the diagram. The site-specific maximum background concentrations for soil are compared to published maximum background values for California and Western U.S. soils in Table 3-2. All of the site-specific maximum values are less than state or regional maximum background except for antimony, cadmium, and selenium.

Statistical Analysis of Constituents in Groundwater

Test	**Continuous summary descriptives**
Variable	Barium in groundwater
Performed by	tl
Date	28 April 2005





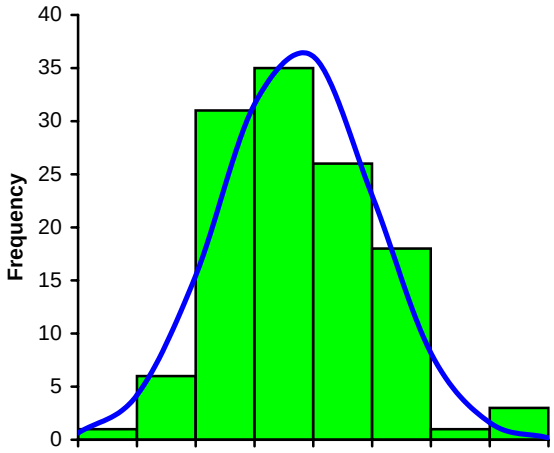


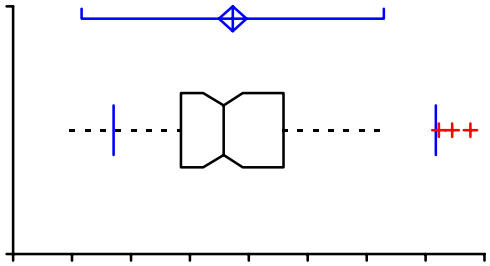
n	121
Mean	0.066
95% CI	0.054 to 0.079
Variance	0.0049
SD	0.0698
SE	0.0063
CV	106%
% Detection	96.7%
Minimum	0.0099
Maximum	0.49
Median	0.044
95.5% CI	0.036 to 0.053
Range	0.4801
IQR	0.05

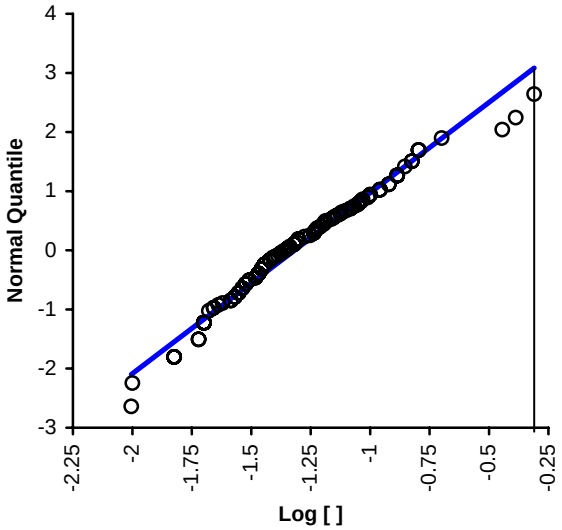
Percentile	
2.5th	0.015
25th	0.029
50th	0.044
75th	0.079
97.5th	0.352

	Coefficient	**p**
Kolmogorov-Smirnov	2.3859	< 0.01
Skewness	3.6599	<0.0001
Kurtosis	17.1296	<0.0001

Test	**Continuous summary descriptives**
Variable	Barium in groundwater
Performed by	tl
Date	28 April 2005





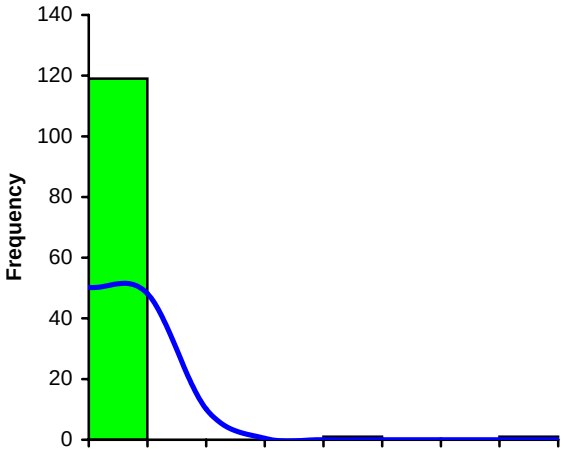


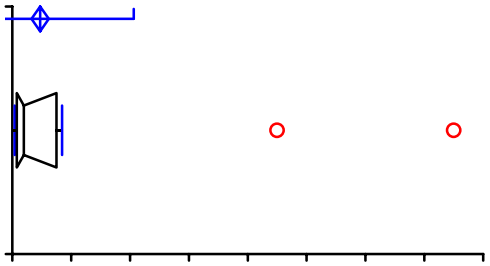
n	121
Mean	-1.318
95% CI	-1.377 to -1.259
Variance	0.1070
SD	0.3271
SE	0.0297
CV	-25%
% Detection	96.7%
Minimum	-2.0044
Maximum	-0.3098
Median	-1.357
95.5% CI	-1.444 to -1.276
Range	1.6946
IQR	0.4352

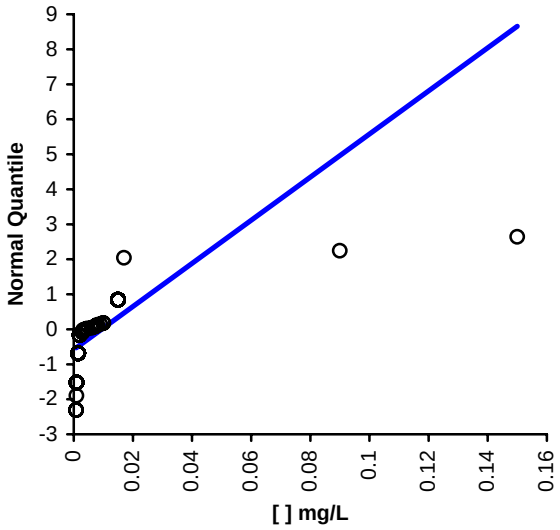
Percentile	
2.5th	-1.824
25th	-1.538
50th	-1.357
75th	-1.102
97.5th	-0.456

	Coefficient	**p**
Kolmogorov-Smirnov	0.7846	0.1391
Skewness	0.5167	0.0214
Kurtosis	0.2692	0.4481

Test	**Continuous summary descriptives**
Variable	Cobalt in groundwater
Performed by	tl
Date	28 April 2005





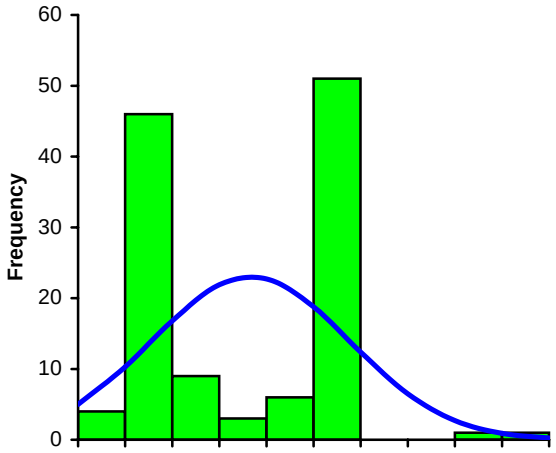


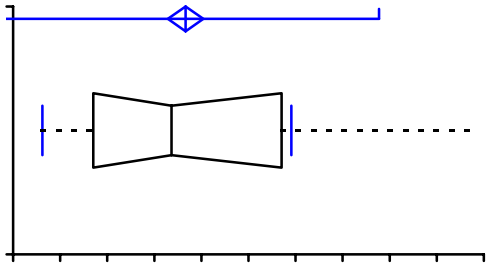
n	121
Mean	0.009
95% CI	0.007 to 0.012
Variance	0.0003
SD	0.0162
SE	0.0015
CV	172%
% Detection	24.8%
Minimum	0.0008
Maximum	<0.3
Median	0.004
95.5% CI	0.002 to 0.015
Range	0.1492
IQR	0.0135

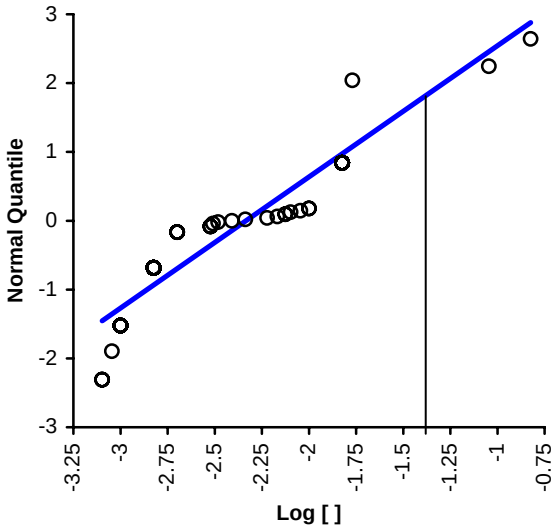
Percentile	
2.5th	0.001
25th	0.002
50th	0.004
75th	0.015
97.5th	0.017

	Coefficient	**p**
Kolmogorov-Smirnov	3.7796	< 0.01
Skewness	6.4942	<0.0001
Kurtosis	51.5265	<0.0001

Test	**Continuous summary descriptives**
Variable	Cobalt in groundwater
Performed by	tl
Date	28 April 2005





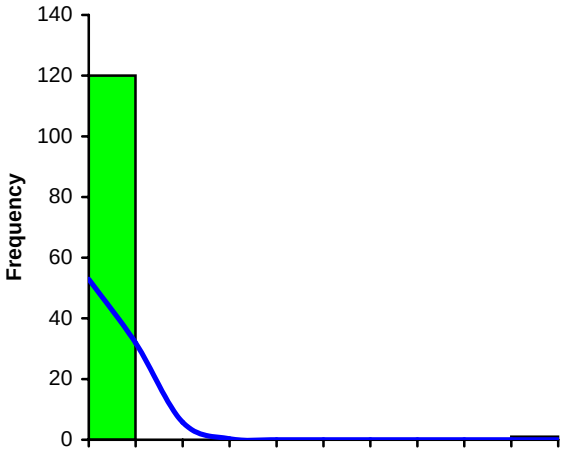


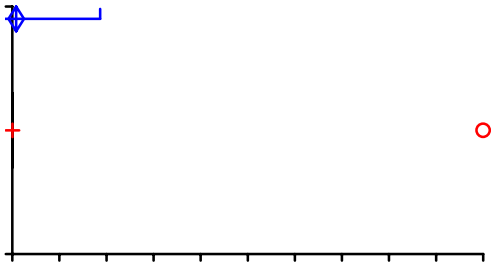
n	121
Mean	-2.334
95% CI	-2.428 to -2.240
Variance	0.2749
SD	0.5243
SE	0.0477
CV	-22%
% Detection	24.8%
Minimum	-3.0969
Maximum	<-0.5228
Median	-2.409
95.5% CI	-2.824 to -1.824
Range	2.2730
IQR	1

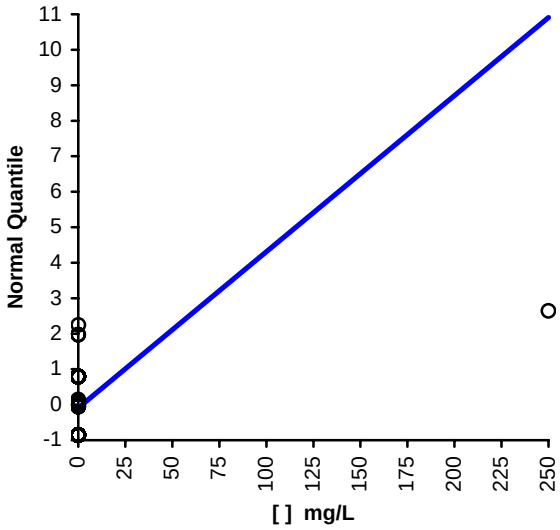
Percentile	
2.5th	-3.094
25th	-2.824
50th	-2.409
75th	-1.824
97.5th	-1.772

	Coefficient	**p**
Kolmogorov-Smirnov	2.8351	< 0.01
Skewness	0.2041	0.3440
Kurtosis	-1.1669	<0.0001

Test	**Continuous summary descriptives**
Variable	Chromium in groundwater
Performed by	tl
Date	28 April 2005





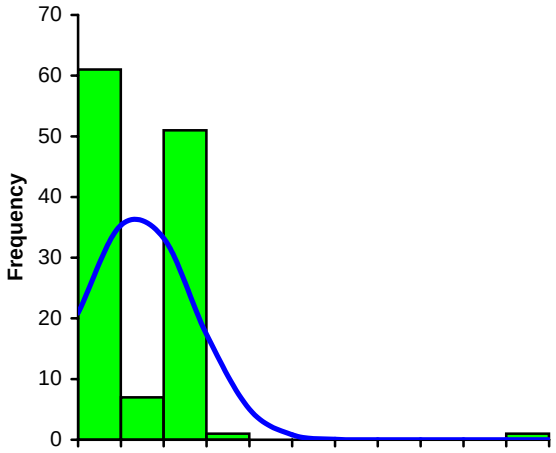


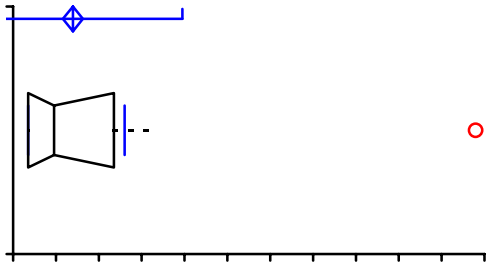
n	121
Mean	2.074
95% CI	-2.017 to 6.165
Variance	516.4959
SD	22.7265
SE	2.0660
CV	1096%
% Detection	10.7%
Minimum	0.002
Maximum	250
Median	0.003
95.5% CI	0.002 to 0.015
Range	249.9985
IQR	0.0135

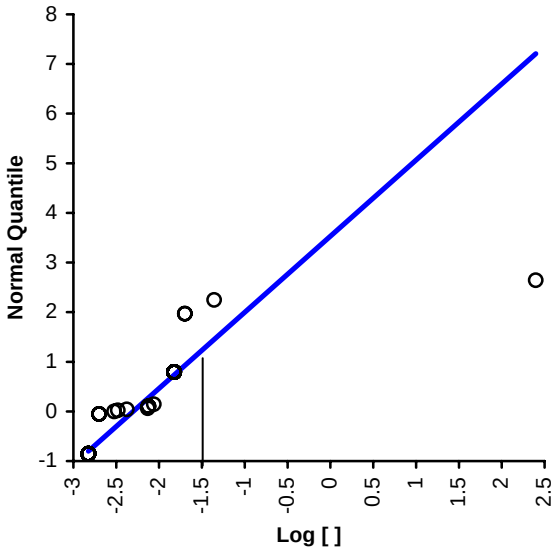
Percentile	
2.5th	0.002
25th	0.002
50th	0.003
75th	0.015
97.5th	0.020

	Coefficient	**p**
Kolmogorov-Smirnov	5.8360	< 0.01
Skewness	11.0000	<0.0001
Kurtosis	121.0000	<0.0001

Test	**Continuous summary descriptives**
Variable	Chromium in groundwater
Performed by	tl
Date	28 April 2005





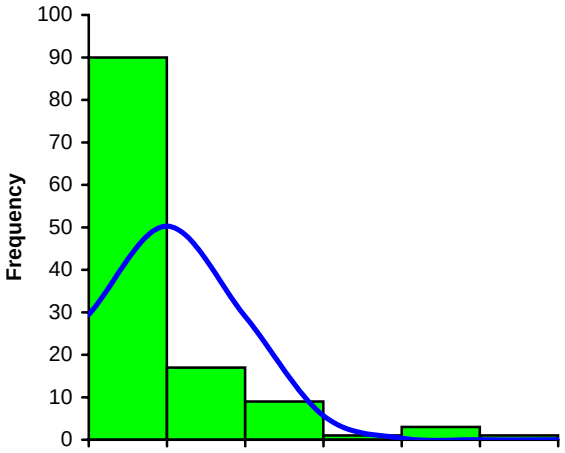


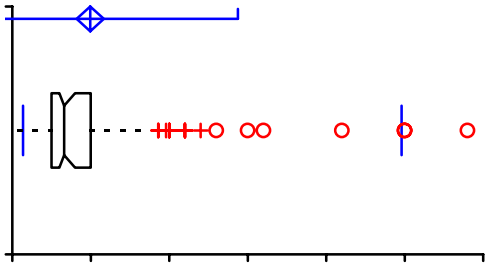
n	121
Mean	-2.303
95% CI	-2.420 to -2.185
Variance	0.4255
SD	0.6523
SE	0.0593
CV	-28%
% Detection	10.7%
Minimum	-2.6989
Maximum	2.3979
Median	-2.523
95.5% CI	-2.824 to -1.824
Range	5.2218
IQR	1

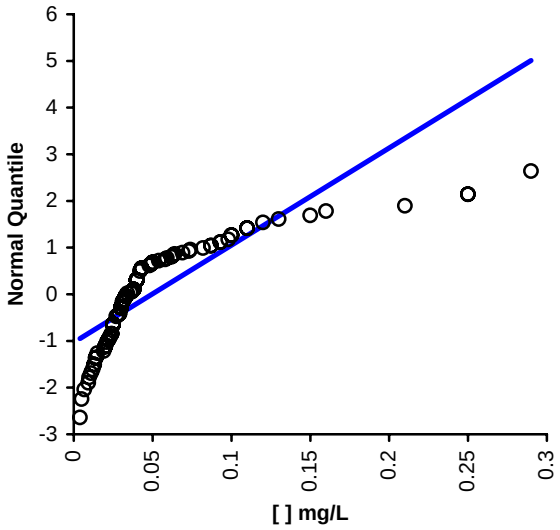
Percentile	
2.5th	-2.824
25th	-2.824
50th	-2.523
75th	-1.824
97.5th	-1.699

	Coefficient	**p**
Kolmogorov-Smirnov	2.7749	< 0.01
Skewness	3.1244	<0.0001
Kurtosis	20.9241	<0.0001

Test	**Continuous summary descriptives**
Variable	Molybdenum in groundwater
Performed by	tl
Date	28 April 2005





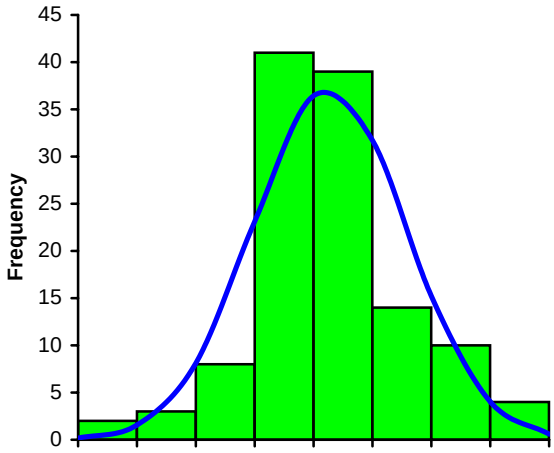


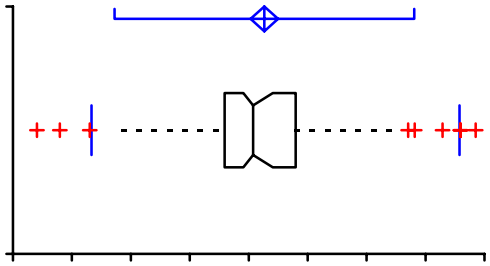
n	121
Mean	0.050
95% CI	0.041 to 0.058
Variance	0.0023
SD	0.0480
SE	0.0044
CV	97%
% Detection	90.9%
Minimum	0.004
Maximum	0.29
Median	0.033
95.5% CI	0.030 to 0.040
Range	0.286
IQR	0.025

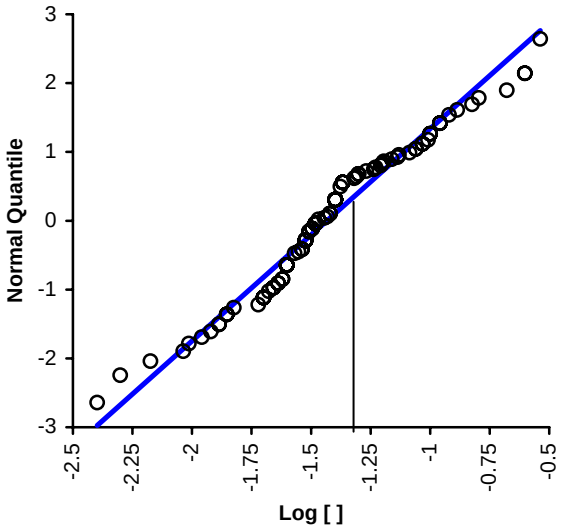
Percentile	
2.5th	0.007
25th	0.025
50th	0.033
75th	0.050
97.5th	0.248

	Coefficient	**p**
Kolmogorov-Smirnov	3.1235	< 0.01
Skewness	2.8654	<0.0001
Kurtosis	9.5750	<0.0001

Test	**Continuous summary descriptives**
Variable	Molybdenum in groundwater
Performed by	tl
Date	28 April 2005





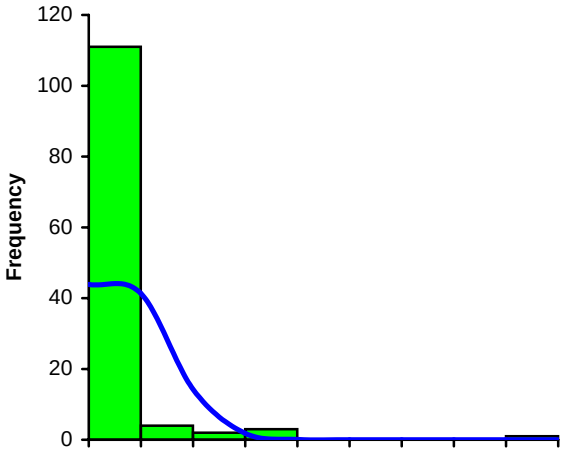


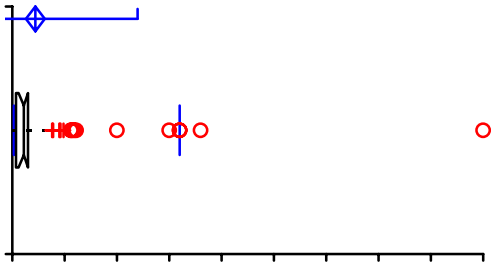
n	121
Mean	-1.434
95% CI	-1.492 to -1.375
Variance	0.1052
SD	0.3243
SE	0.0295
CV	-23%
% Detection	90.9%
Minimum	-2.3979
Maximum	-0.5376
Median	-1.481
95.5% CI	-1.523 to -1.398
Range	1.8603
IQR	0.3010

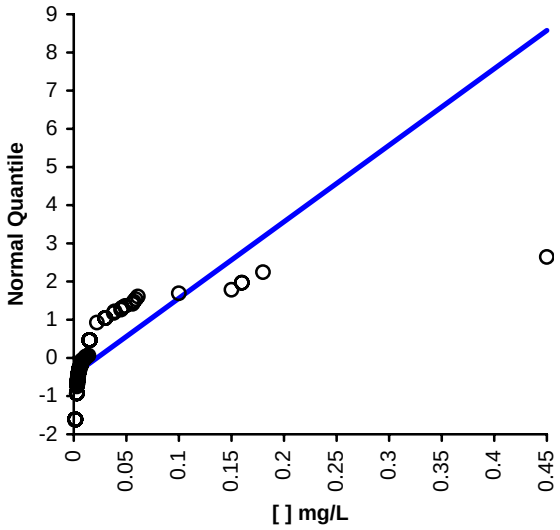
Percentile	
2.5th	-2.167
25th	-1.602
50th	-1.481
75th	-1.301
97.5th	-0.606

	Coefficient	**p**
Kolmogorov-Smirnov	1.6089	< 0.01
Skewness	0.2005	0.3523
Kurtosis	1.0308	0.0530

Test	**Continuous summary descriptives**
Variable	Nickel in groundwater
Performed by	tl
Date	28 April 2005





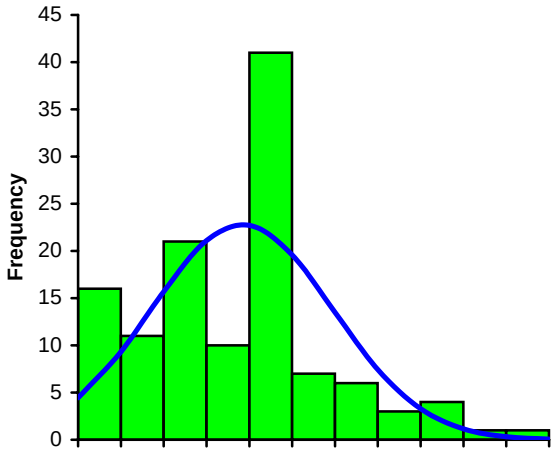


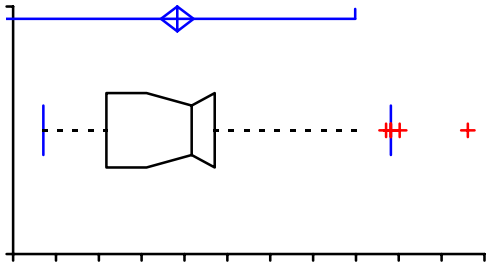
n	121
Mean	0.022
95% CI	0.013 to 0.031
Variance	0.0025
SD	0.0499
SE	0.0045
CV	227%
% Detection	57.0%
Minimum	<0.003
Maximum	0.45
Median	0.011
95.5% CI	0.006 to 0.015
Range	0.4485
IQR	0.0115

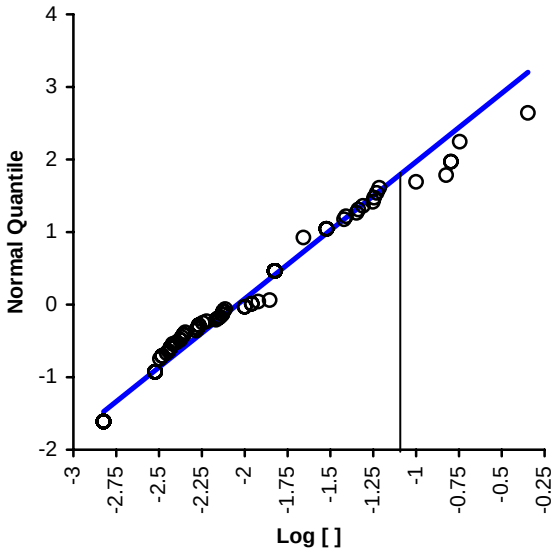
Percentile	
2.5th	0.002
25th	0.004
50th	0.011
75th	0.015
97.5th	0.160

	Coefficient	**p**
Kolmogorov-Smirnov	4.1378	< 0.01
Skewness	6.1426	<0.0001
Kurtosis	46.7203	<0.0001

Test	**Continuous summary descriptives**
Variable	Nickel in groundwater
Performed by	tl
Date	28 April 2005





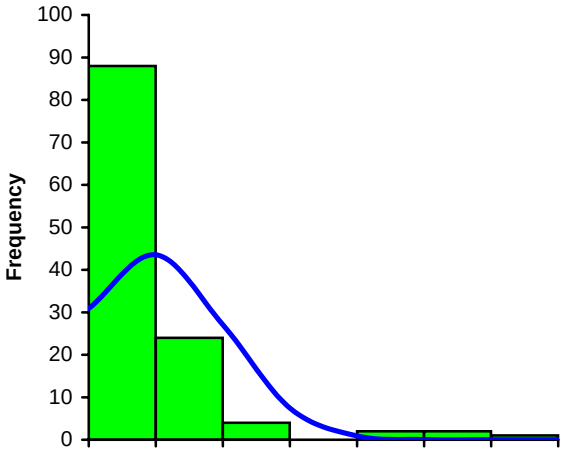


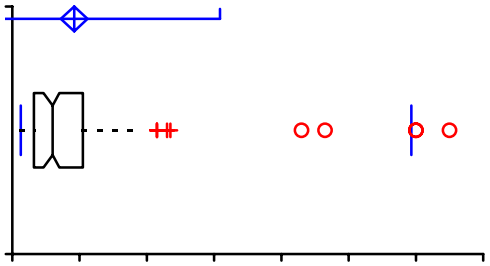
n	121
Mean	-2.042
95% CI	-2.138 to -1.947
Variance	0.2804
SD	0.5295
SE	0.0481
CV	-26%
% Detection	57.0%
Minimum	<-2.5228
Maximum	-0.3468
Median	-1.959
95.5% CI	-2.222 to -1.824
Range	2.477121255
IQR	0.632023215

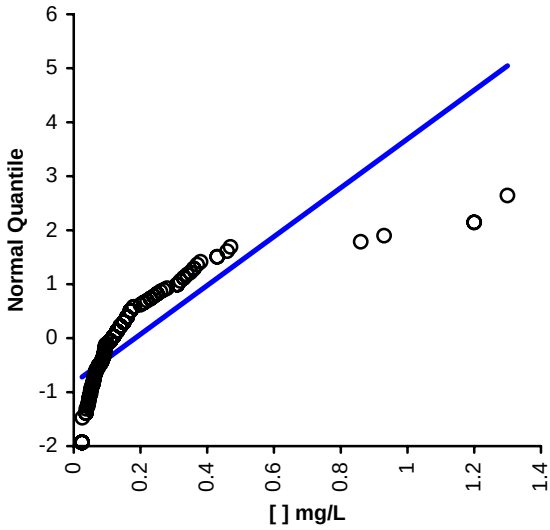
Percentile	
2.5th	-2.824
25th	-2.456
50th	-1.959
75th	-1.824
97.5th	-0.796

	Coefficient	**p**
Kolmogorov-Smirnov	1.7517	< 0.01
Skewness	0.5135	0.0222
Kurtosis	0.2152	0.5148

Test	**Continuous summary descriptives**
Variable	Selenium in groundwater
Performed by	tl
Date	28 April 2005





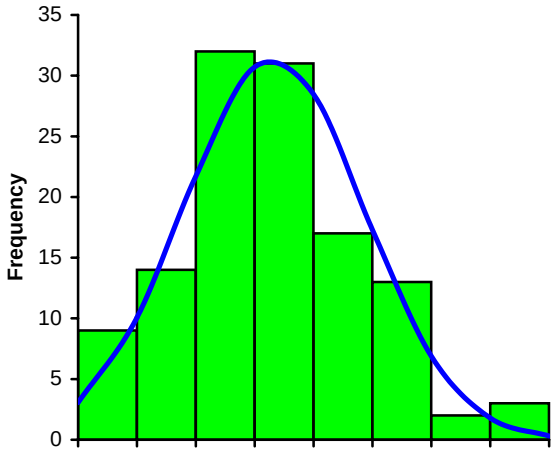


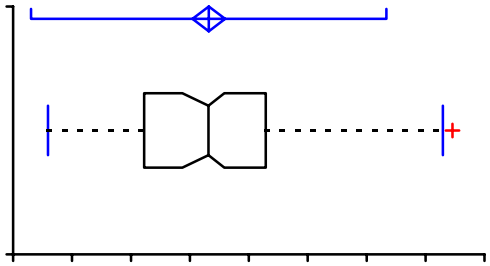
n	121
Mean	0.184
95% CI	0.144 to 0.224
Variance	0.0489
SD	0.2212
SE	0.0201
CV	120%
% Detection	93.4%
Minimum	0.025
Maximum	1.3
Median	0.120
95.5% CI	0.093 to 0.140
Range	1.275
IQR	0.146

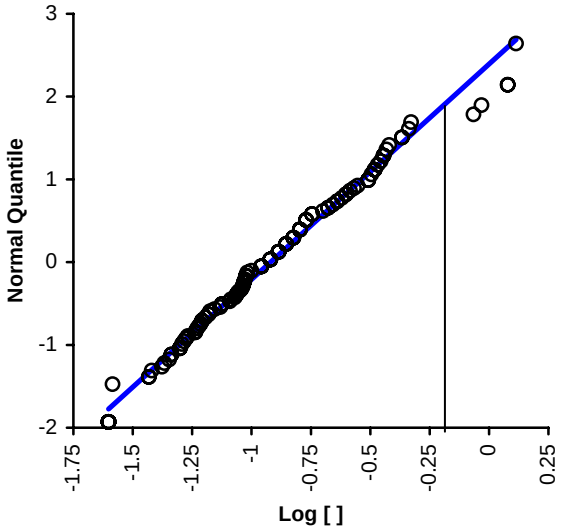
Percentile	
2.5th	0.025
25th	0.064
50th	0.120
75th	0.210
97.5th	1.187

	Coefficient	**p**
Kolmogorov-Smirnov	2.6135	< 0.01
Skewness	3.3040	<0.0001
Kurtosis	12.4574	<0.0001

Test	**Continuous summary descriptives**
Variable	Selenium in groundwater
Performed by	tl
Date	28 April 2005





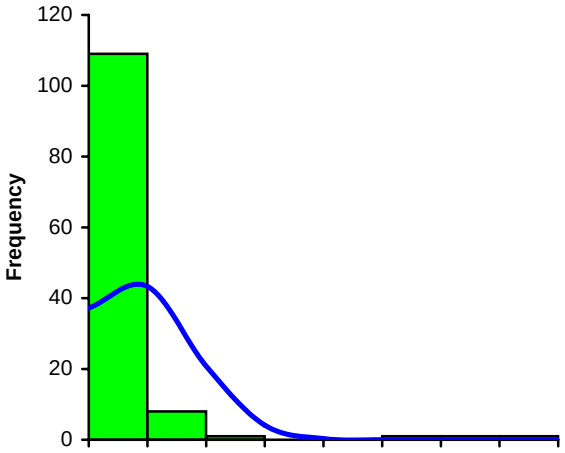


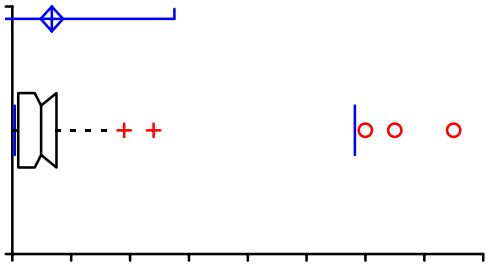
n	121
Mean	-0.920
95% CI	-0.989 to -0.851
Variance	0.1479
SD	0.3845
SE	0.0350
CV	-42%
% Detection	93.4%
Minimum	-1.6021
Maximum	0.1139
Median	-0.921
95.5% CI	-1.032 to -0.854
Range	1.7160
IQR	0.5160

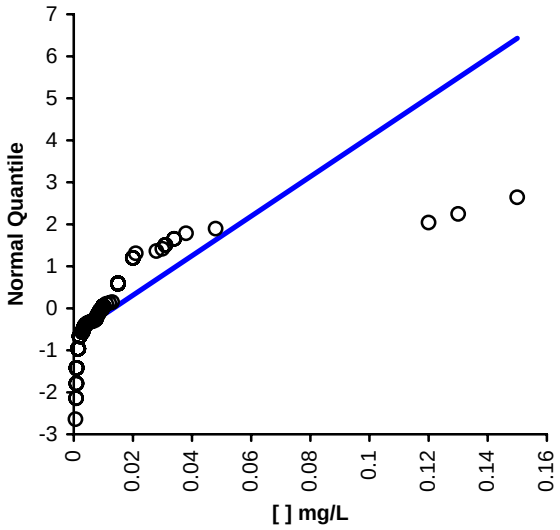
Percentile	
2.5th	-1.602
25th	-1.194
50th	-0.921
75th	-0.678
97.5th	0.074

	Coefficient	**p**
Kolmogorov-Smirnov	0.6479	> 0.15
Skewness	0.3524	0.1077
Kurtosis	0.0621	0.7475

Test	**Continuous summary descriptives**
Variable	Vanadium in groundwater
Performed by	tl
Date	28 April 2005





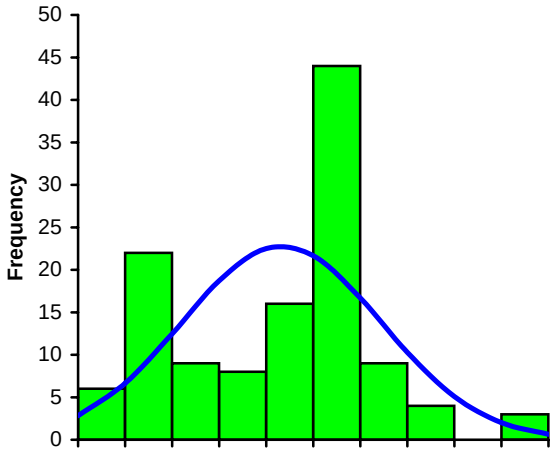


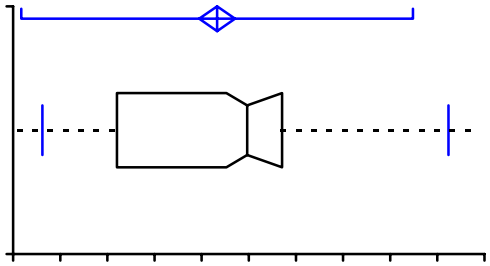
n	121
Mean	0.013
95% CI	0.010 to 0.017
Variance	0.0005
SD	0.0212
SE	0.0019
CV	158%
% Detection	52.9%
Minimum	0.0006
Maximum	<0.3
Median	0.010
95.5% CI	0.008 to 0.015
Range	0.1494
IQR	0.013

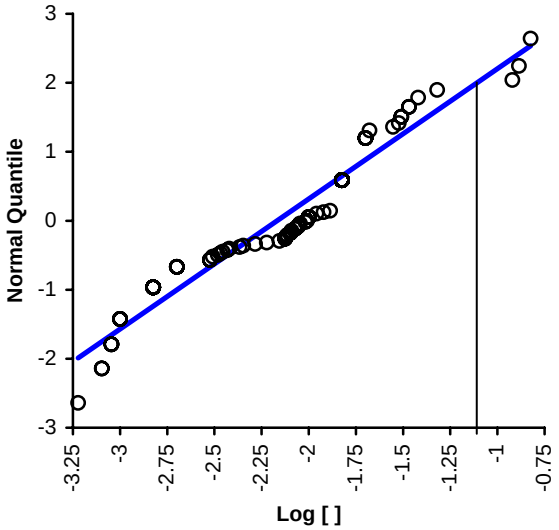
Percentile	
2.5th	0.001
25th	0.002
50th	0.010
75th	0.015
97.5th	0.116

	Coefficient	**p**
Kolmogorov-Smirnov	3.7436	< 0.01
Skewness	4.7396	<0.0001
Kurtosis	25.5187	<0.0001

Test	**Continuous summary descriptives**
Variable	Vanadium in groundwater
Performed by	tl
Date	28 April 2005





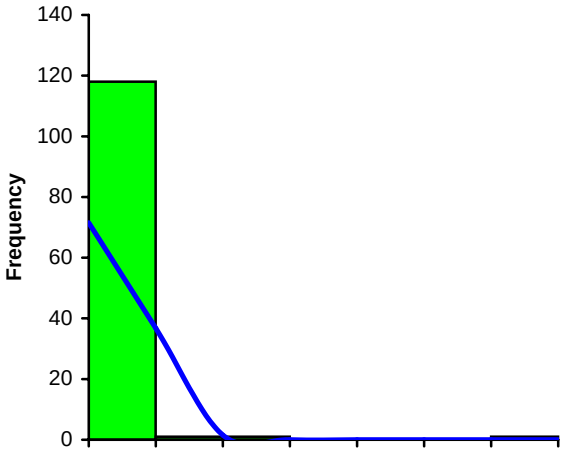


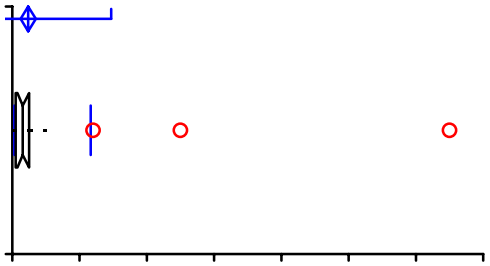
n	121
Mean	-2.168
95% CI	-2.263 to -2.073
Variance	0.2809
SD	0.5300
SE	0.0482
CV	-24%
% Detection	52.9%
Minimum	-3.2218
Maximum	<-0.5228
Median	-2.009
95.5% CI	-2.119 to -1.824
Range	2.3979
IQR	0.8751

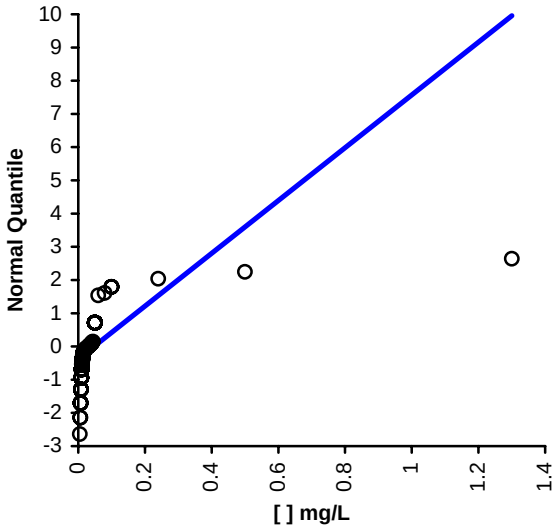
Percentile	
2.5th	-3.094
25th	-2.699
50th	-2.009
75th	-1.824
97.5th	-0.941

	Coefficient	**p**
Kolmogorov-Smirnov	1.9913	< 0.01
Skewness	-0.1558	0.4684
Kurtosis	-0.5991	0.0750

Test	**Continuous summary descriptives**
Variable	Zinc in groundwater
Performed by	tl
Date	28 April 2005





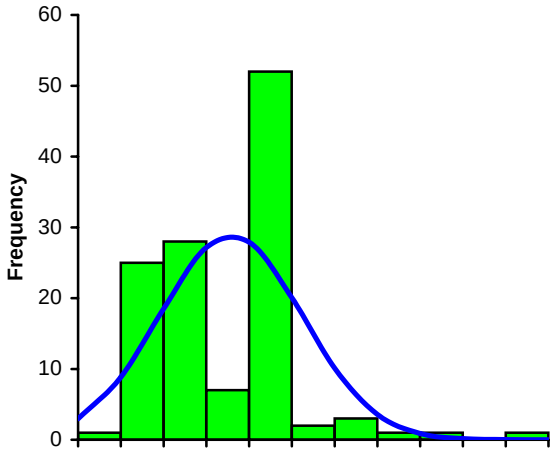


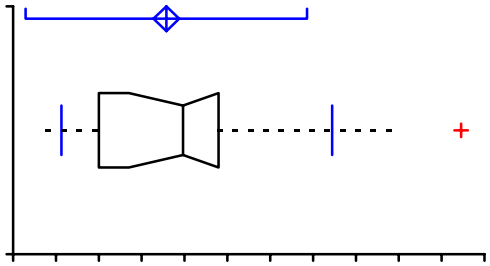
n	121
Mean	0.047
95% CI	0.025 to 0.070
Variance	0.0158
SD	0.1258
SE	0.0114
CV	266%
% Detection	59.5%
Minimum	0.006
Maximum	1.3
Median	0.031
95.5% CI	0.015 to 0.050
Range	1.295
IQR	0.04

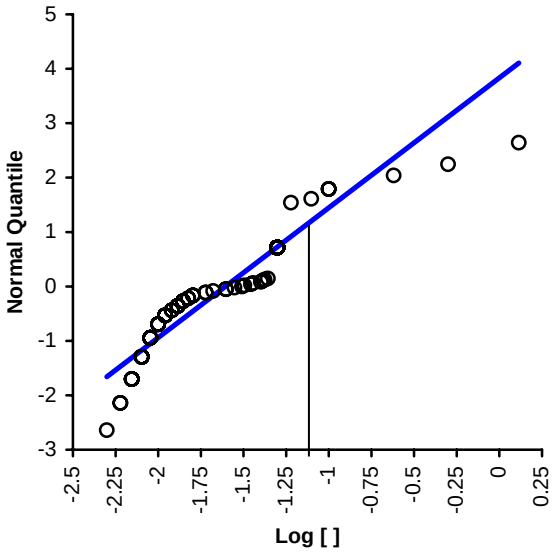
Percentile	
2.5th	0.006
25th	0.010
50th	0.031
75th	0.050
97.5th	0.233

	Coefficient	**p**
Kolmogorov-Smirnov	4.7057	< 0.01
Skewness	8.7733	<0.0001
Kurtosis	84.4713	<0.0001

Test	**Continuous summary descriptives**
Variable	Zinc in groundwater
Performed by	tl
Date	28 April 2005







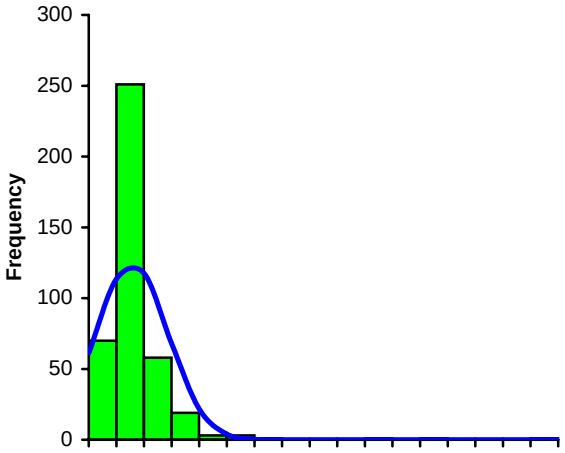
n	121
Mean	-1.606
95% CI	-1.682 to -1.531
Variance	0.1754
SD	0.4189
SE	0.0381
CV	-26%
% Detection	59.5%
Minimum	-2.2218
Maximum	0.1139
Median	-1.509
95.5% CI	-1.824 to -1.301
Range	2.4150
IQR	0.6990

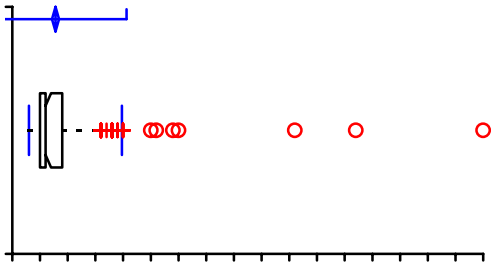
Percentile	
2.5th	-2.219
25th	-2.000
50th	-1.509
75th	-1.301
97.5th	-0.639

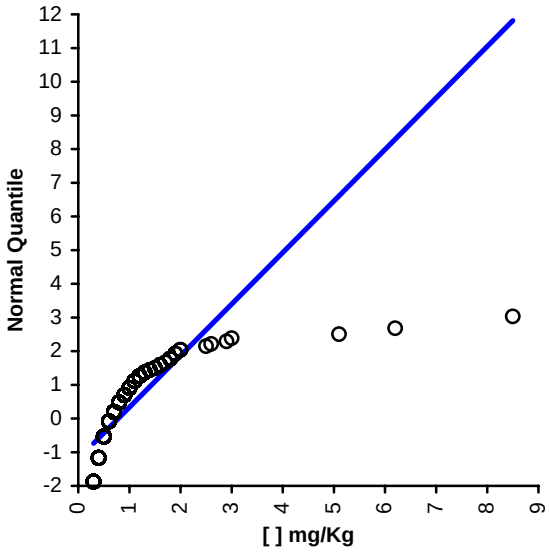
	Coefficient	**p**
Kolmogorov-Smirnov	2.2674	< 0.01
Skewness	0.7018	0.0025
Kurtosis	1.3746	0.0201

Statistical Analysis of Constituents in Soil

Test	**Continuous summary descriptives**
Variable	Antimony in soil
Performed by	tl
Date	15 April 2005





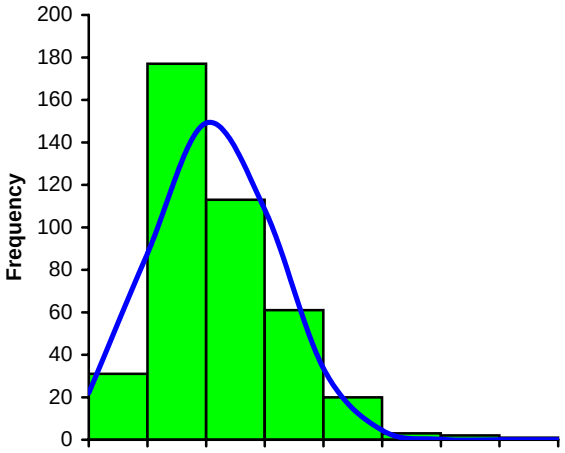


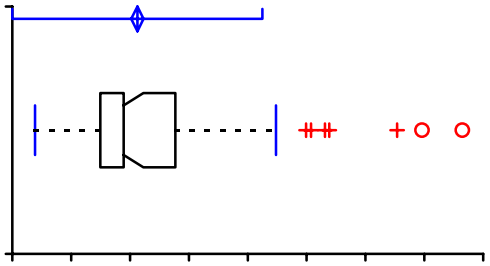
n	408
Mean	0.780
95% CI	0.716 to 0.844
Variance	0.4271
SD	0.6535
SE	0.0324
CV	84%
% Detection	85.0%
Minimum	0.3
Maximum	8.5
Median	0.600
95.8% CI	0.600 to 0.700
Range	8.2
IQR	0.4

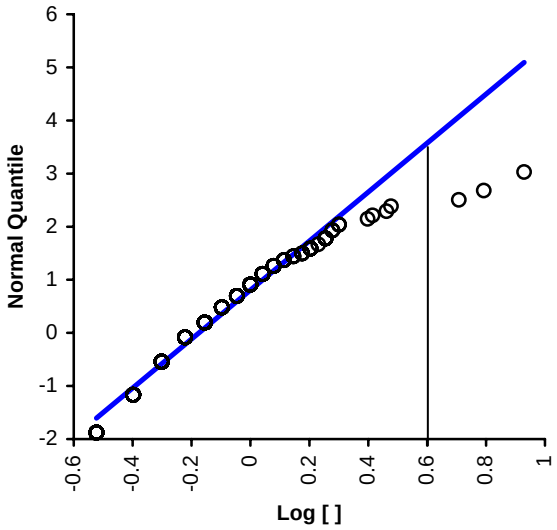
Percentile	
2.5th	0.300
25th	0.500
50th	0.600
75th	0.900
97.5th	1.978

	Coefficient	**p**
Kolmogorov-Smirnov	4.6811	< 0.01
Skewness	6.6115	<0.0001
Kurtosis	63.3227	<0.0001

Test	**Continuous summary descriptives**
Variable	Antimony in soil
Performed by	tl
Date	15 April 2005





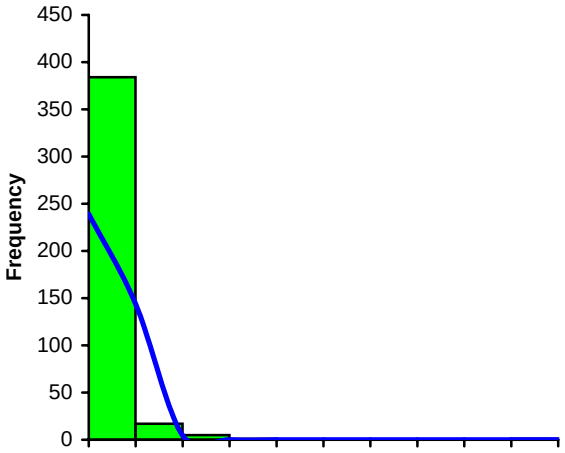


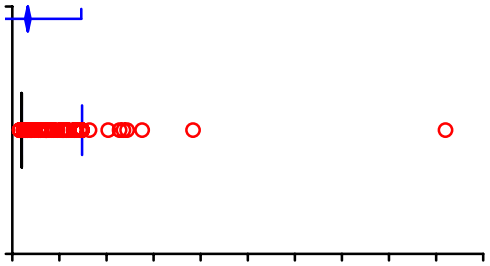
n	408
Mean	-0.175
95% CI	-0.196 to -0.154
Variance	0.0470
SD	0.2168
SE	0.0107
CV	-124%
% Detection	85.0%
Minimum	-0.5229
Maximum	0.9294
Median	-0.222
95.8% CI	-0.222 to -0.155
Range	1.452
IQR	0.255

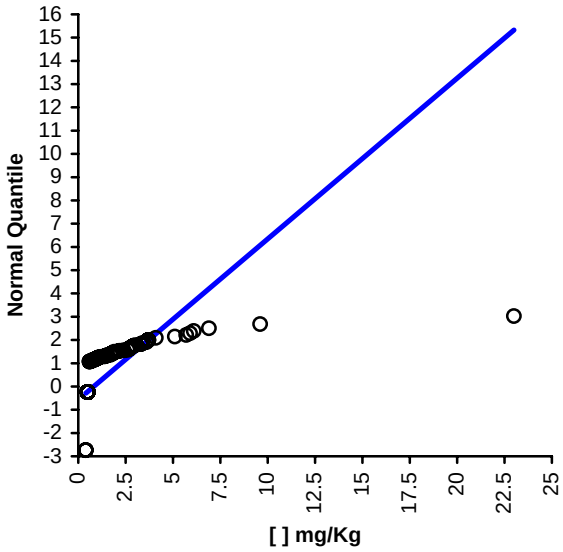
Percentile	
2.5th	-0.523
25th	-0.301
50th	-0.222
75th	-0.046
97.5th	0.296

	Coefficient	**p**
Kolmogorov-Smirnov	2.9000	< 0.01
Skewness	1.0335	<0.0001
Kurtosis	2.5887	<0.0001

Test	**Continuous summary descriptives**
Variable	Arsenic in soil
Performed by	tl
Date	15 April 2005





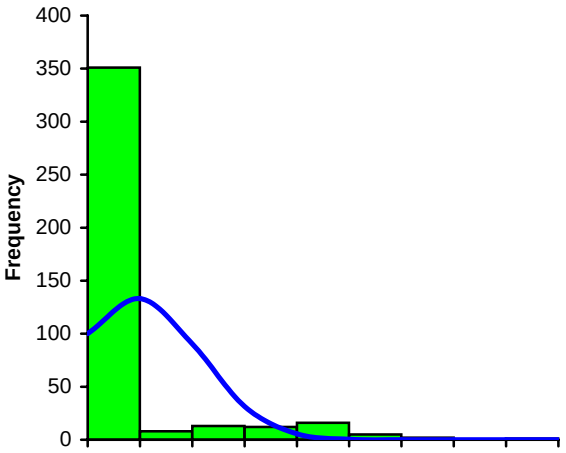


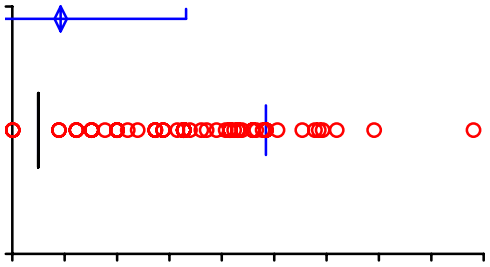
n	408
Mean	0.824
95% CI	0.683 to 0.965
Variance	2.0932
SD	1.4468
SE	0.0716
CV	176%
% Detection	14.7%
Minimum	0.4
Maximum	23
Median	0.500
95.8% CI	0.500 to 0.500
Range	22.6
IQR	0

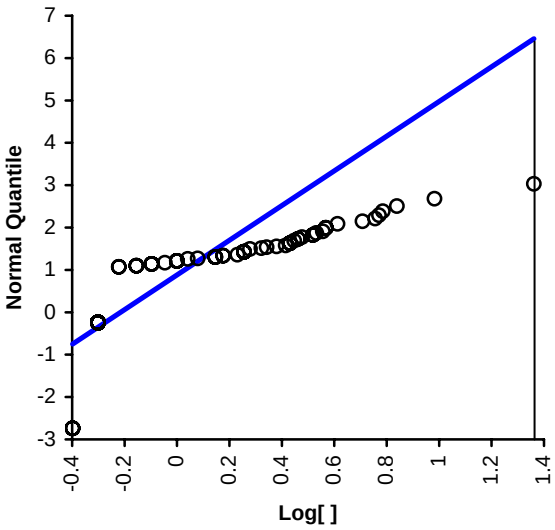
Percentile	
2.5th	0.500
25th	0.500
50th	0.500
75th	0.500
97.5th	3.700

	Coefficient	**p**
Kolmogorov-Smirnov	8.9812	< 0.01
Skewness	10.2139	<0.0001
Kurtosis	140.4708	<0.0001

Test	**Continuous summary descriptives**
Variable	Arsenic in soil
Performed by	tl
Date	15 April 2005





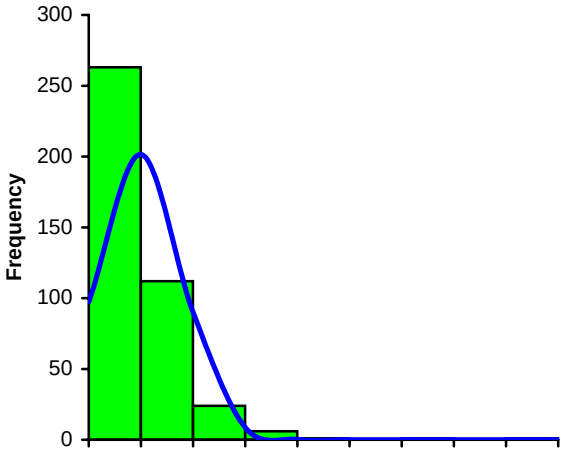


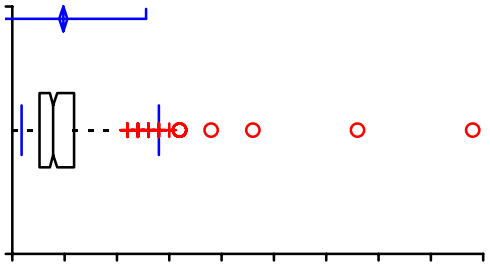
n	408
Mean	-0.215
95% CI	-0.239 to -0.191
Variance	0.0597
SD	0.2442
SE	0.0121
CV	-113%
% Detection	14.7%
Minimum	-0.3979
Maximum	1.3617
Median	-0.301
95.8% CI	-0.301 to -0.301
Range	1.7597
IQR	0

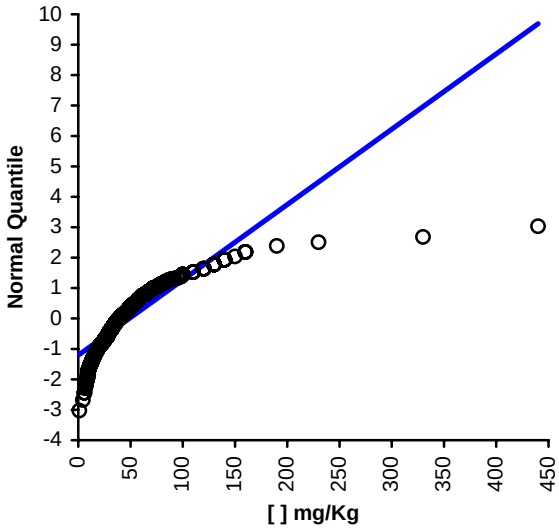
Percentile	
2.5th	-0.301
25th	-0.301
50th	-0.301
75th	-0.301
97.5th	0.568

	Coefficient	**p**
Kolmogorov-Smirnov	9.9685	< 0.01
Skewness	3.1077	<0.0001
Kurtosis	9.9225	<0.0001

Test	**Continuous summary descriptives**
Variable	Barium in soil
Performed by	tl
Date	15 April 2005





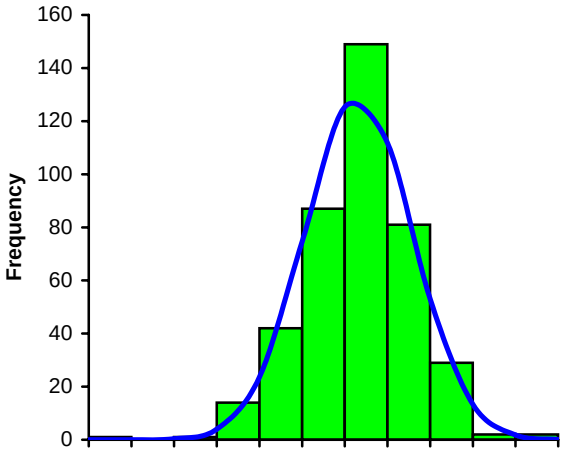


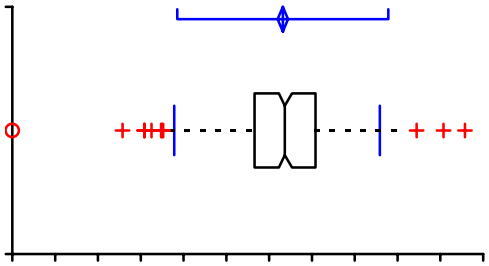
n	408
Mean	48.735
95% CI	44.806 to 52.664
Variance	1629.8119
SD	40.3709
SE	1.9987
CV	83%
% Detection	100.0%
Minimum	1
Maximum	440
Median	39.000
95.8% CI	36.000 to 43.000
Range	439
IQR	33

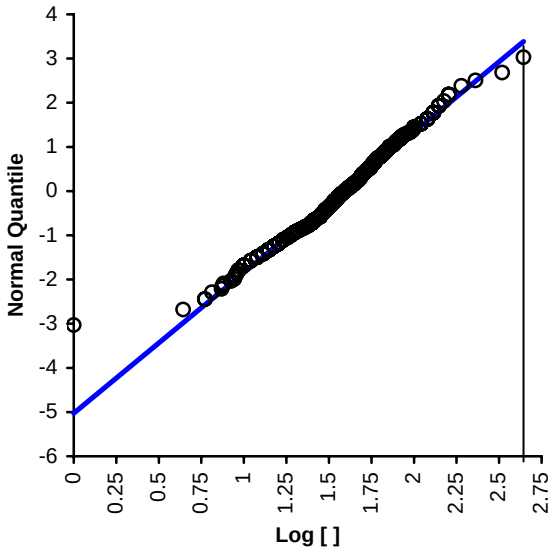
Percentile	
2.5th	8.823
25th	26.000
50th	39.000
75th	59.000
97.5th	140.000

	Coefficient	**p**
Kolmogorov-Smirnov	3.1388	< 0.01
Skewness	3.9154	<0.0001
Kurtosis	27.8067	<0.0001

Test	**Continuous summary descriptives**
Variable	Barium in soil
Performed by	tl
Date	2 May 2005





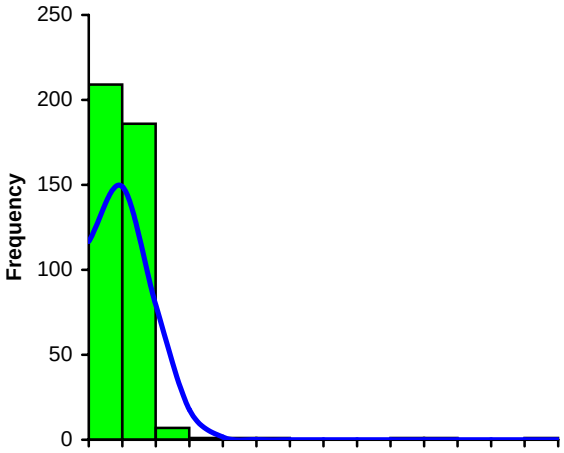


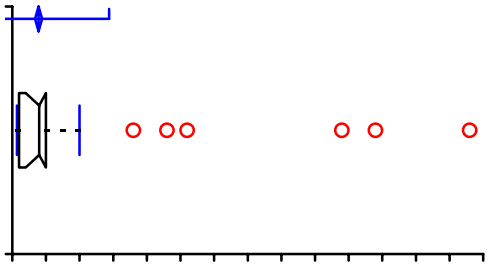
n	408
Mean	1.580
95% CI	1.549 to 1.610
Variance	0.0988
SD	0.3144
SE	0.0156
CV	20%
% Detection	100.0%
Minimum	0
Maximum	2.6435
Median	1.591
95.8% CI	1.556 to 1.633
Range	2.6435
IQR	0.3559

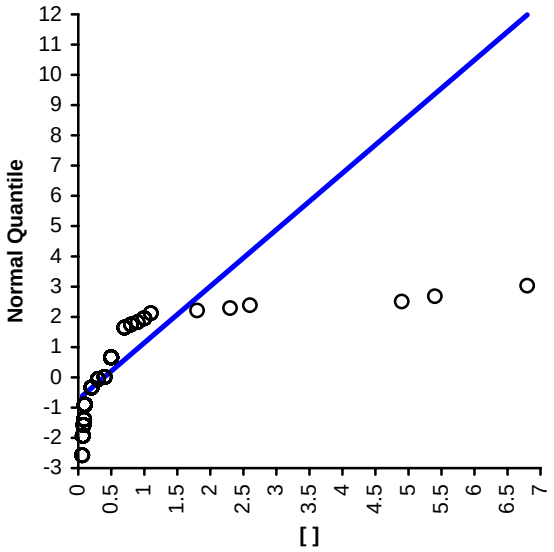
Percentile	
2.5th	0.946
25th	1.415
50th	1.591
75th	1.771
97.5th	2.146

	Coefficient	**p**
Kolmogorov-Smirnov	1.3536	< 0.01
Skewness	-0.4128	0.0009
Kurtosis	1.5572	<0.0001

Test	**Continuous summary descriptives**
Variable	Cadmium in soil
Performed by	tl
Date	15 April 2005





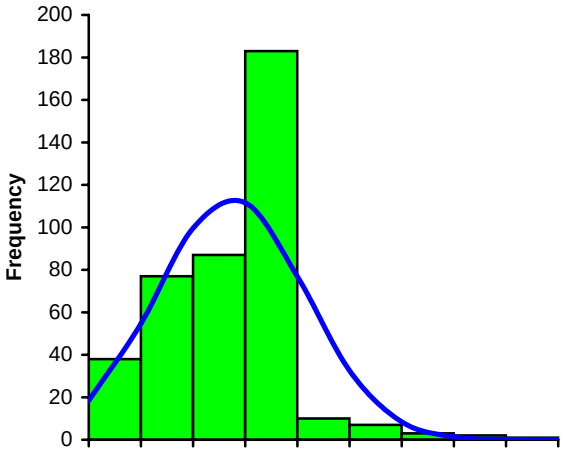


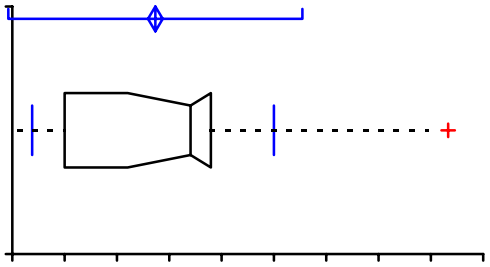
n	408
Mean	0.390
95% CI	0.338 to 0.442
Variance	0.2862
SD	0.5349
SE	0.0265
CV	137%
% Detection	57.1%
Minimum	0.06
Maximum	6.8
Median	0.400
95.8% CI	0.200 to 0.500
Range	6.74
IQR	0.4

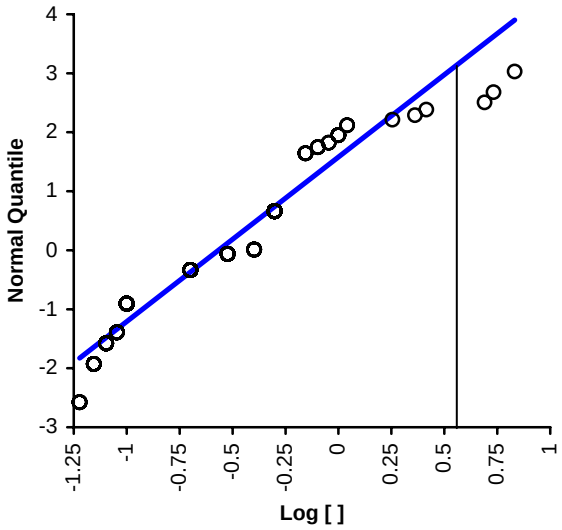
Percentile	
2.5th	0.070
25th	0.100
50th	0.400
75th	0.500
97.5th	1.000

	Coefficient	**p**
Kolmogorov-Smirnov	7.3263	< 0.01
Skewness	8.0748	<0.0001
Kurtosis	81.5026	<0.0001

Test	**Continuous summary descriptives**
Variable	Cadmium in soil
Performed by	tl
Date	15 April 2005





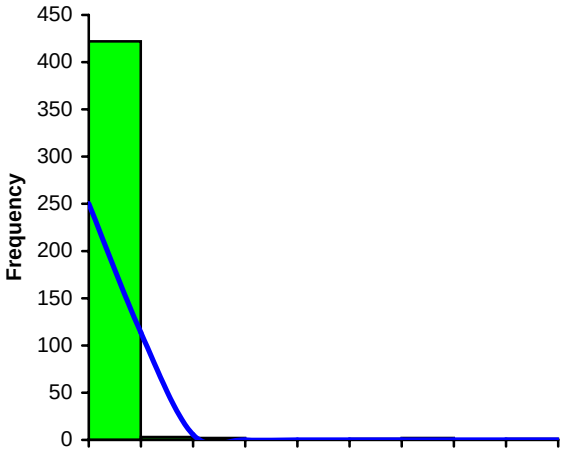


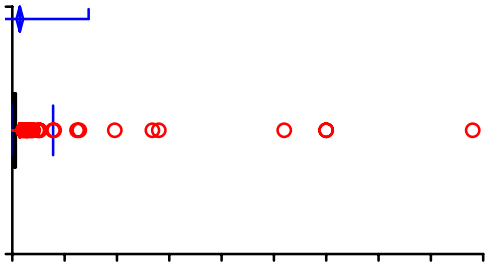
n	408
Mean	-0.567
95% CI	-0.601 to -0.532
Variance	0.1284
SD	0.3584
SE	0.0177
CV	-63%
% Detection	57.1%
Minimum	-1.2218
Maximum	0.8325
Median	-0.398
95.8% CI	-0.699 to -0.301
Range	2.0544
IQR	0.6990

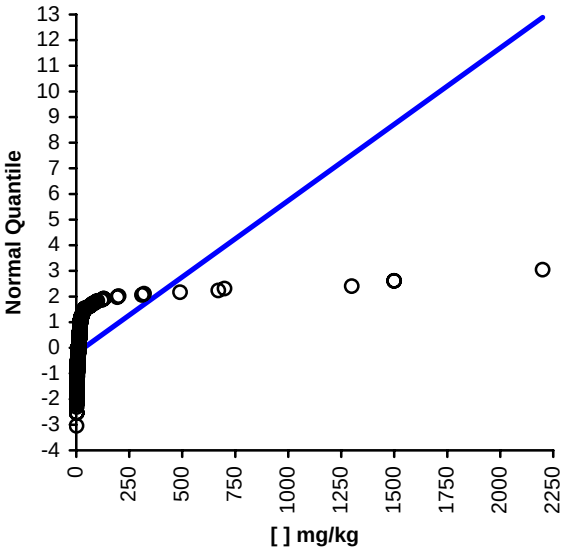
Percentile	
2.5th	-1.155
25th	-1.000
50th	-0.398
75th	-0.301
97.5th	0.000

	Coefficient	**p**
Kolmogorov-Smirnov	5.2266	< 0.01
Skewness	0.0924	0.4408
Kurtosis	-0.0041	0.9247

Test	**Continuous summary descriptives**
Variable	Chromium in soil
Performed by	tl
Date	15 April 2005





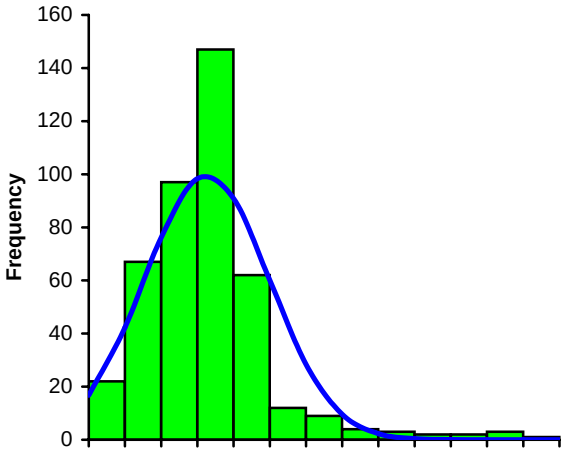


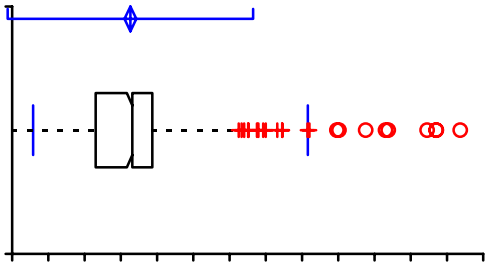
n	431
Mean	35.810
95% CI	19.911 to 51.710
Variance	28203.2237
SD	167.9382
SE	8.0893
CV	469%
% Detection	100.0%
Minimum	1.8
Maximum	2200
Median	12.000
95.7% CI	11.000 to 12.000
Range	2198.2
IQR	9.8

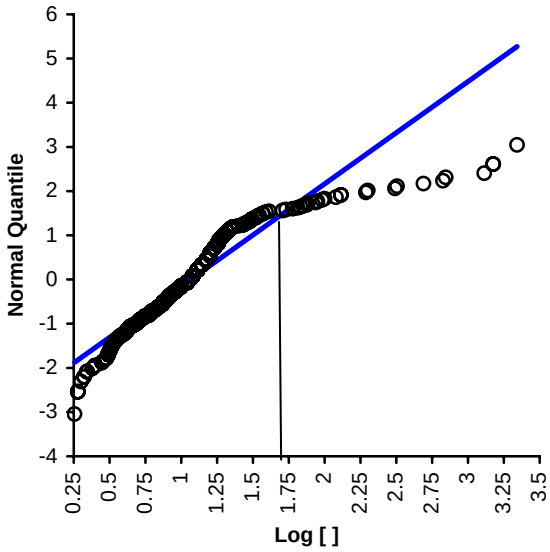
Percentile	
2.5th	2.480
25th	6.700
50th	12.000
75th	16.500
97.5th	195.200

	Coefficient	**p**
Kolmogorov-Smirnov	8.9863	< 0.01
Skewness	9.4342	<0.0001
Kurtosis	98.0679	<0.0001

Test	**Continuous summary descriptives**
Variable	Chromium in soil
Performed by	tl
Date	15 April 2005





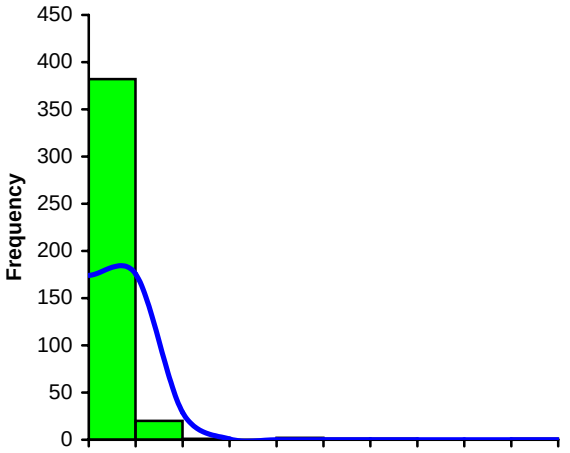


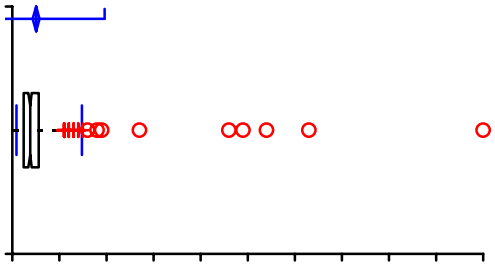
n	431
Mean	1.066
95% CI	1.025 to 1.107
Variance	0.1866
SD	0.4320
SE	0.0208
CV	41%
% Detection	100.0%
Minimum	0.2553
Maximum	3.3424
Median	1.079
95.7% CI	1.041 to 1.079
Range	3.0872
IQR	0.3912

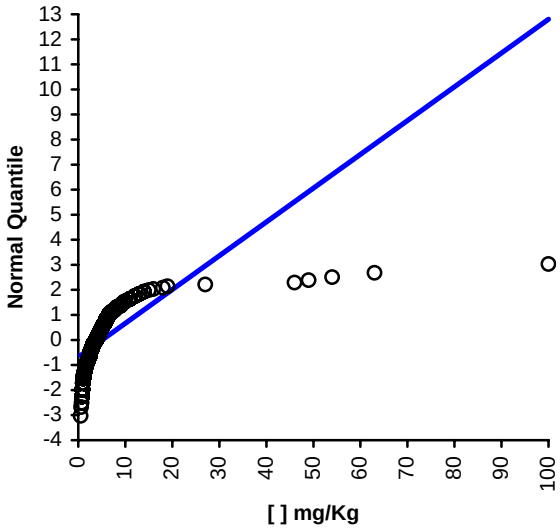
Percentile	
2.5th	0.394
25th	0.826
50th	1.079
75th	1.217
97.5th	2.290

	Coefficient	**p**
Kolmogorov-Smirnov	3.0872	< 0.01
Skewness	1.8141	<0.0001
Kurtosis	6.5654	<0.0001

Test	**Continuous summary descriptives**
Variable	Cobalt in soil
Performed by	tl
Date	15 April 2005





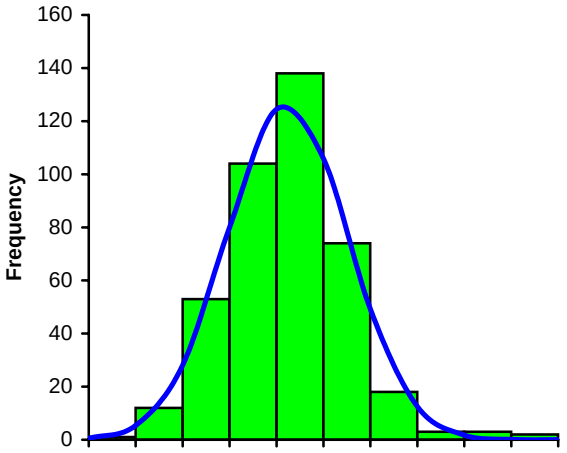


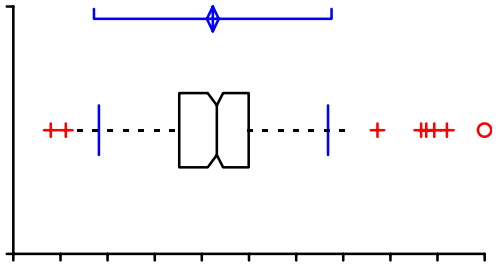
n	408
Mean	5.050
95% CI	4.328 to 5.772
Variance	55.0294
SD	7.4182
SE	0.3673
CV	147%
% Detection	99.0%
Minimum	0.5
Maximum	100
Median	3.800
95.8% CI	3.400 to 4.100
Range	99.5
IQR	3.2

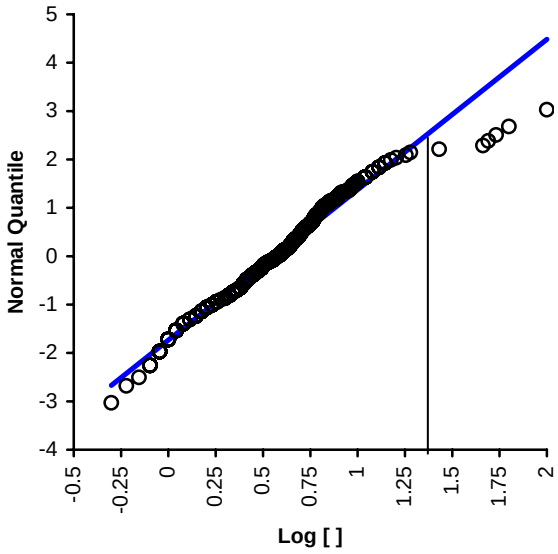
Percentile	
2.5th	0.900
25th	2.400
50th	3.800
75th	5.600
97.5th	14.775

	Coefficient	**p**
Kolmogorov-Smirnov	5.5840	< 0.01
Skewness	8.1063	<0.0001
Kurtosis	83.6260	<0.0001

Test	**Continuous summary descriptives**
Variable	Cobalt in soil
Performed by	tl
Date	15 April 2005





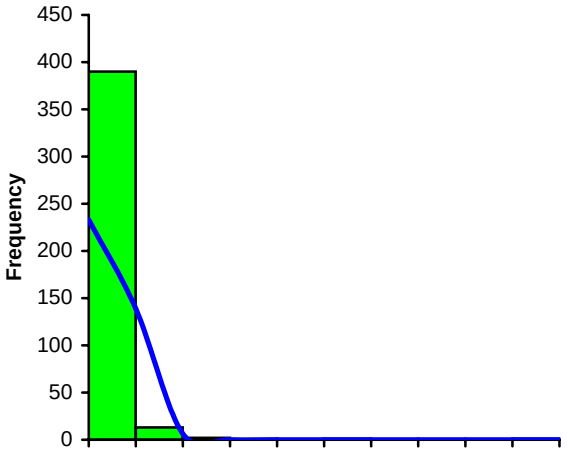


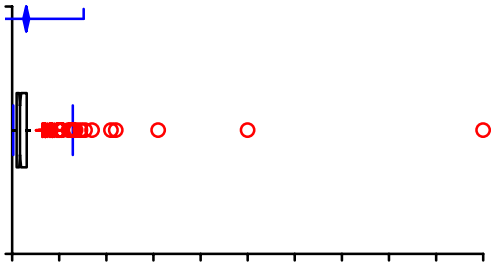
n	408
Mean	0.558
95% CI	0.527 to 0.589
Variance	0.1034
SD	0.3216
SE	0.0159
CV	58%
% Detection	99.0%
Minimum	-0.3010
Maximum	2
Median	0.580
95.8% CI	0.531 to 0.613
Range	2.3010
IQR	0.3680

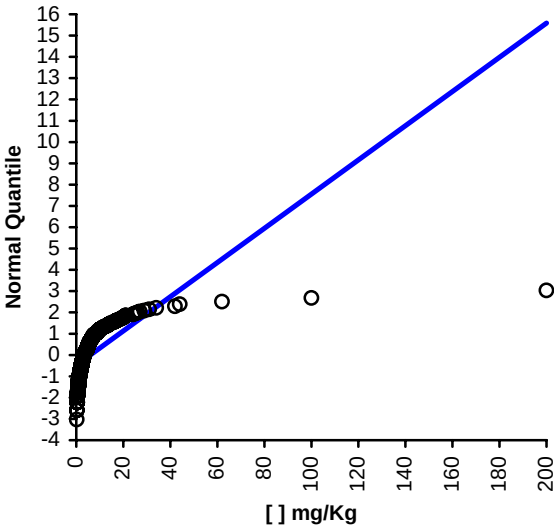
Percentile	
2.5th	-0.046
25th	0.380
50th	0.580
75th	0.748
97.5th	1.169

	Coefficient	**p**
Kolmogorov-Smirnov	1.2053	< 0.01
Skewness	0.4368	0.0005
Kurtosis	1.7240	<0.0001

Test	**Continuous summary descriptives**
Variable	Copper in soil
Performed by	tl
Date	15 April 2005





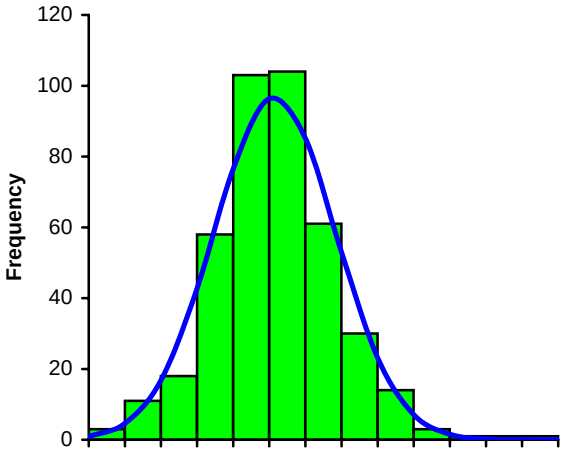


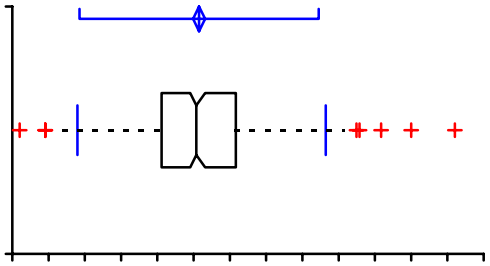
n	408
Mean	5.987
95% CI	4.775 to 7.198
Variance	154.8845
SD	12.4453
SE	0.6161
CV	208%
% Detection	98.8%
Minimum	0.2
Maximum	200
Median	3.300
95.8% CI	3.000 to 3.800
Range	199.8
IQR	4.275

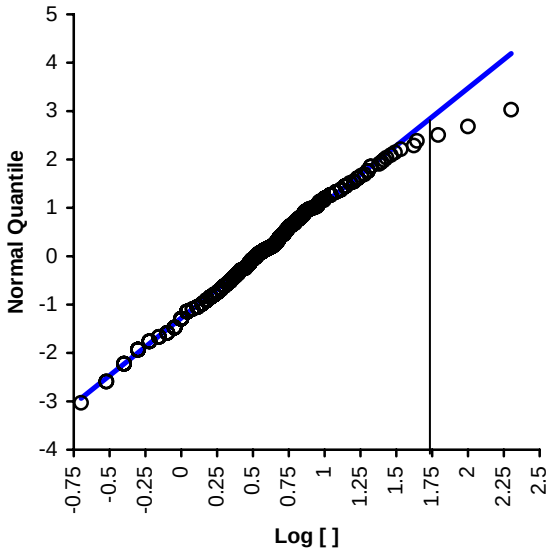
Percentile	
2.5th	0.500
25th	1.900
50th	3.300
75th	6.175
97.5th	25.775

	Coefficient	**p**
Kolmogorov-Smirnov	6.5025	< 0.01
Skewness	10.9017	<0.0001
Kurtosis	154.0327	<0.0001

Test	**Continuous summary descriptives**
Variable	Copper in soil
Performed by	tl
Date	15 April 2005





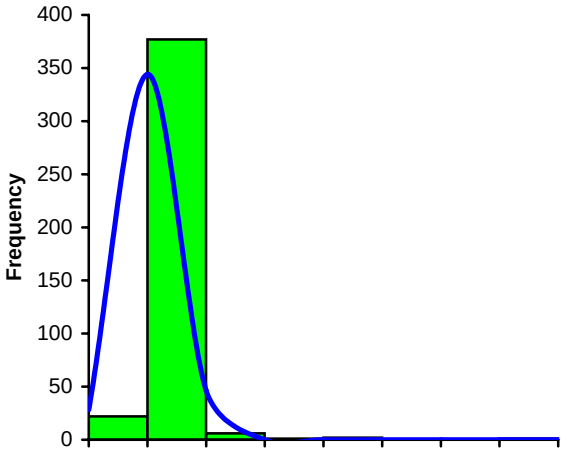


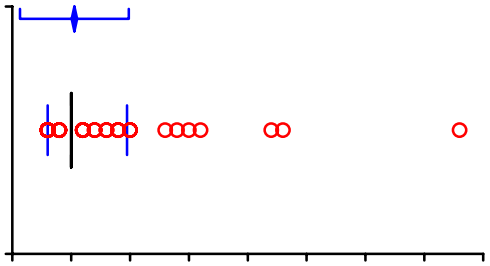
n	408
Mean	0.538
95% CI	0.497 to 0.579
Variance	0.1771
SD	0.4208
SE	0.0208
CV	78%
% Detection	98.8%
Minimum	-0.6990
Maximum	2.3010
Median	0.519
95.8% CI	0.477 to 0.580
Range	3
IQR	0.5119

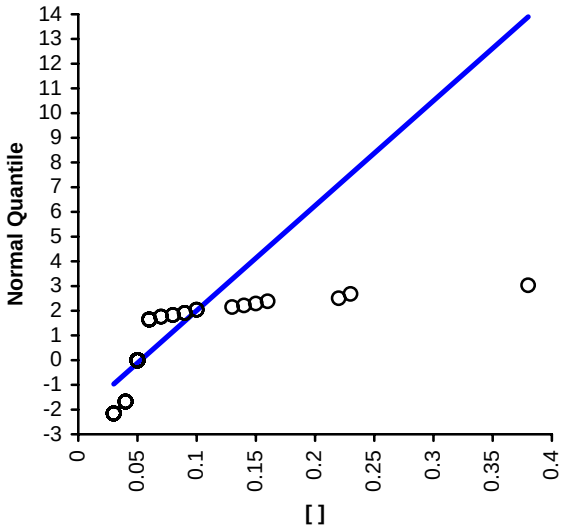
Percentile	
2.5th	-0.301
25th	0.279
50th	0.519
75th	0.791
97.5th	1.411

	Coefficient	**p**
Kolmogorov-Smirnov	0.8743	0.0636
Skewness	0.2462	0.0423
Kurtosis	0.8923	0.0049

Test	**Continuous summary descriptives**
Variable	Mercury in soil
Performed by	tl
Date	15 April 2005





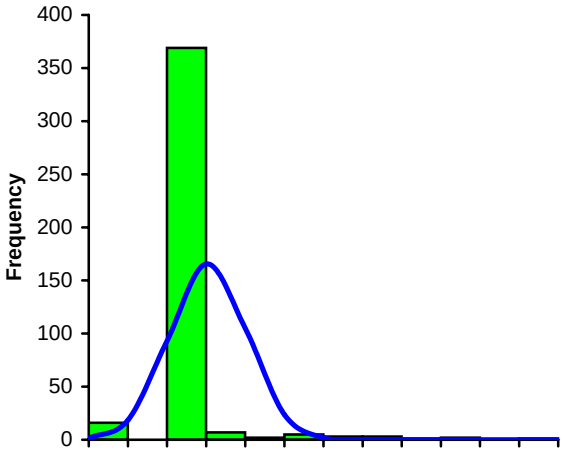


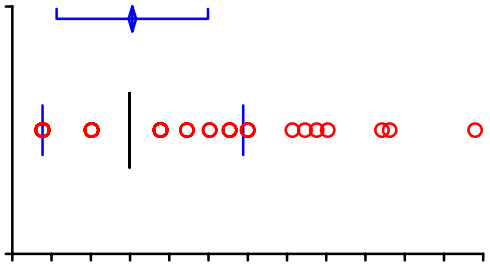
n	409
Mean	0.053
95% CI	0.050 to 0.055
Variance	0.0006
SD	0.0236
SE	0.0012
CV	45%
% Detection	12.2%
Minimum	0.03
Maximum	0.38
Median	0.050
95.2% CI	0.050 to 0.050
Range	0.35
IQR	0

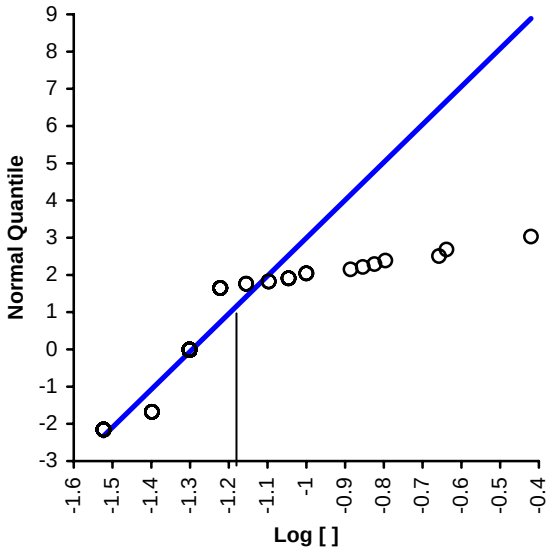
Percentile	
2.5th	0.030
25th	0.050
50th	0.050
75th	0.050
97.5th	0.098

	Coefficient	**p**
Kolmogorov-Smirnov	9.8767	< 0.01
Skewness	9.2175	<0.0001
Kurtosis	106.7591	<0.0001

Test	**Continuous summary descriptives**
Variable	Mercury in soil
Performed by	tl
Date	15 April 2005





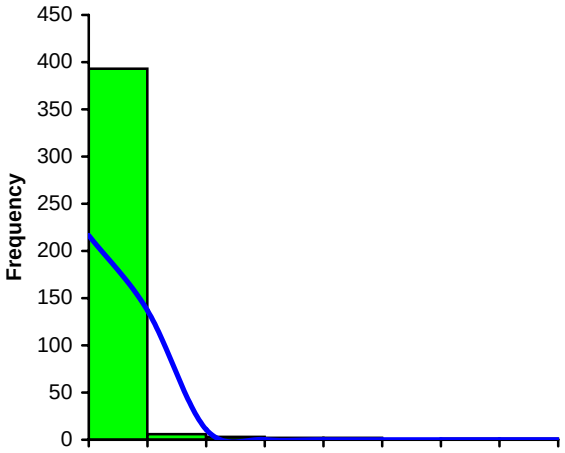


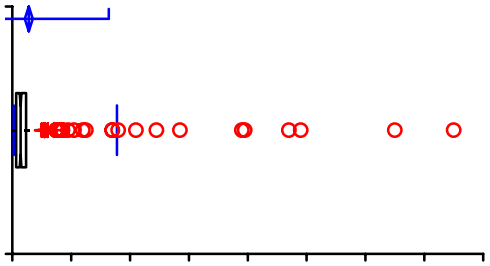
n	409
Mean	-1.294
95% CI	-1.304 to -1.285
Variance	0.0097
SD	0.0983
SE	0.0049
CV	-8%
% Detection	12.2%
Minimum	-1.5229
Maximum	-0.4202
Median	-1.301
95.2% CI	-1.301 to -1.301
Range	1.1027
IQR	0

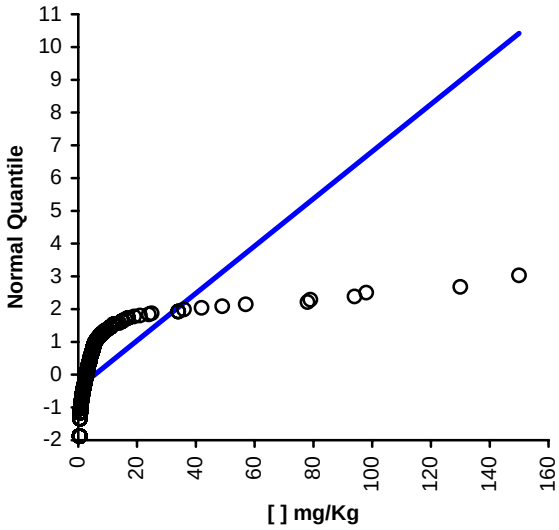
Percentile	
2.5th	-1.523
25th	-1.301
50th	-1.301
75th	-1.301
97.5th	-1.011

	Coefficient	**p**
Kolmogorov-Smirnov	9.5062	< 0.01
Skewness	3.9773	<0.0001
Kurtosis	28.6427	<0.0001

Test	**Continuous summary descriptives**
Variable	Lead in soil
Performed by	tl
Date	15 April 2005





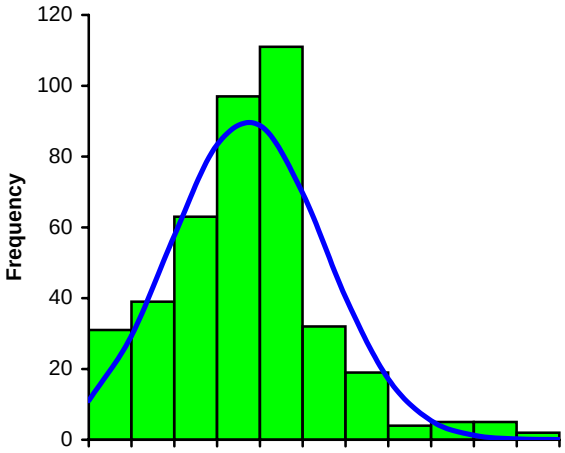


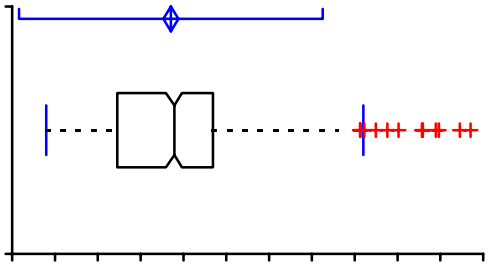
n	408
Mean	5.600
95% CI	4.251 to 6.948
Variance	192.1289
SD	13.8611
SE	0.6862
CV	248%
% Detection	91.4%
Minimum	0.6
Maximum	150
Median	2.800
95.8% CI	2.500 to 3.100
Range	149.5
IQR	3.4

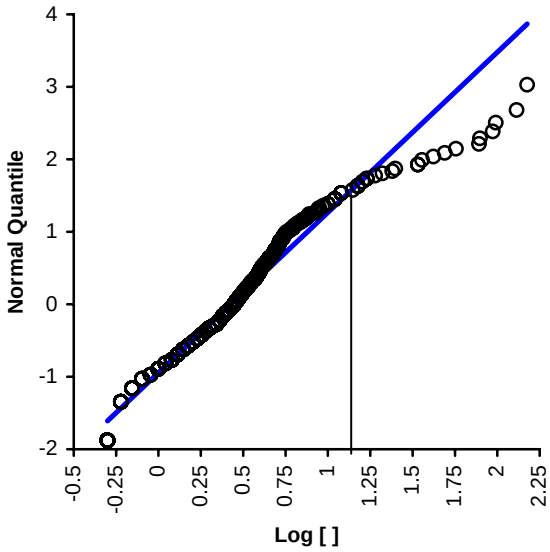
Percentile	
2.5th	0.500
25th	1.300
50th	2.800
75th	4.700
97.5th	35.550

	Coefficient	**p**
Kolmogorov-Smirnov	7.2118	< 0.01
Skewness	6.9936	<0.0001
Kurtosis	56.4009	<0.0001

Test	**Continuous summary descriptives**
Variable	Lead in soil
Performed by	tl
Date	15 April 2005





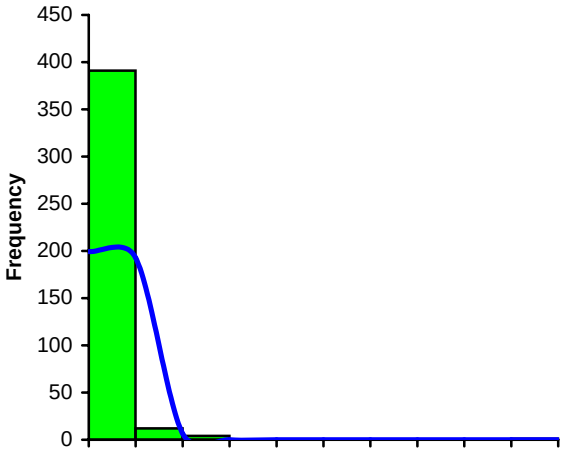


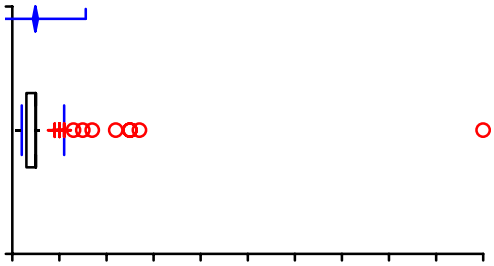
n	408
Mean	0.427
95% CI	0.383 to 0.471
Variance	0.2046
SD	0.4524
SE	0.0224
CV	106%
% Detection	91.4%
Minimum	-0.222
Maximum	2.1761
Median	0.447
95.8% CI	0.398 to 0.491
Range	2.4771
IQR	0.5582

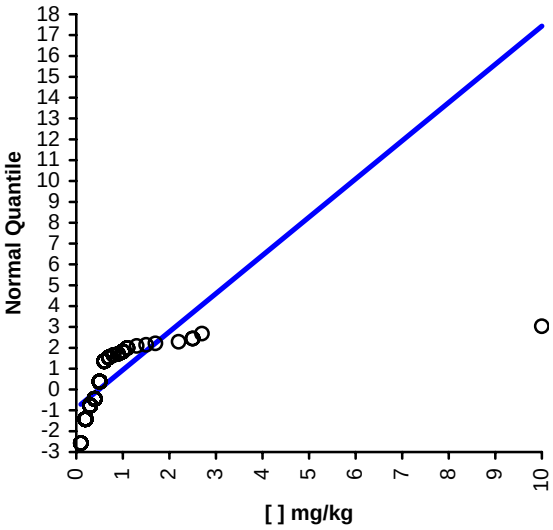
Percentile	
2.5th	-0.301
25th	0.114
50th	0.447
75th	0.672
97.5th	1.551

	Coefficient	**p**
Kolmogorov-Smirnov	1.5464	< 0.01
Skewness	0.6770	<0.0001
Kurtosis	1.3649	0.0002

Test	**Continuous summary descriptives**
Variable	Molybdenum in soil
Performed by	tl
Date	15 April 2005





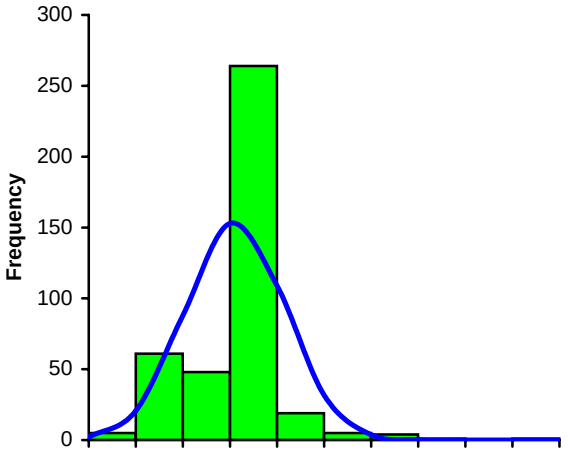


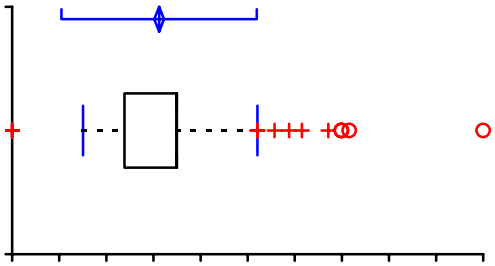
n	408
Mean	0.490
95% CI	0.437 to 0.543
Variance	0.2977
SD	0.5456
SE	0.0270
CV	111%
% Detection	53.4%
Minimum	0.1
Maximum	10
Median	0.500
95.8% CI	0.500 to 0.500
Range	9.9
IQR	0.2

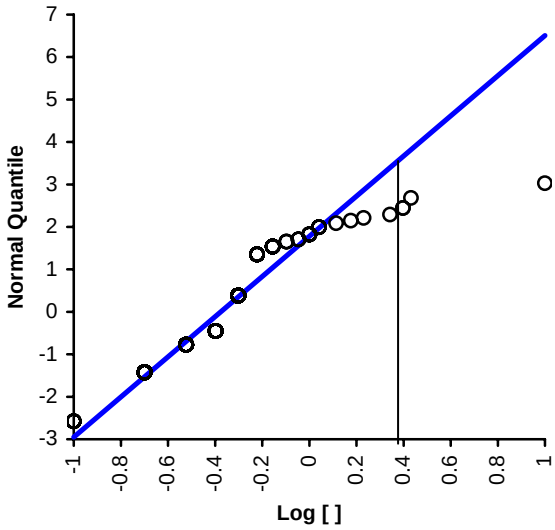
Percentile	
2.5th	0.200
25th	0.300
50th	0.500
75th	0.500
97.5th	1.100

	Coefficient	**p**
Kolmogorov-Smirnov	7.8843	< 0.01
Skewness	13.6056	<0.0001
Kurtosis	229.0684	<0.0001

Test	**Continuous summary descriptives**
Variable	Molybdenum in soil
Performed by	tl
Date	15 April 2005





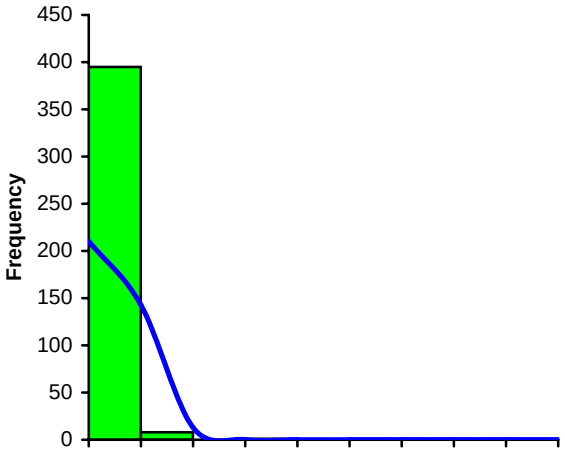


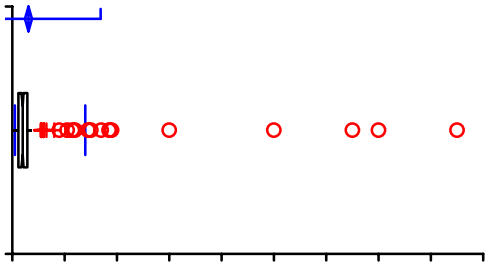
n	408
Mean	-0.376
95% CI	-0.397 to -0.355
Variance	0.0447
SD	0.2115
SE	0.0105
CV	-56%
% Detection	53.4%
Minimum	-1
Maximum	1
Median	-0.301
95.8% CI	-0.301 to -0.301
Range	2
IQR	0.2218

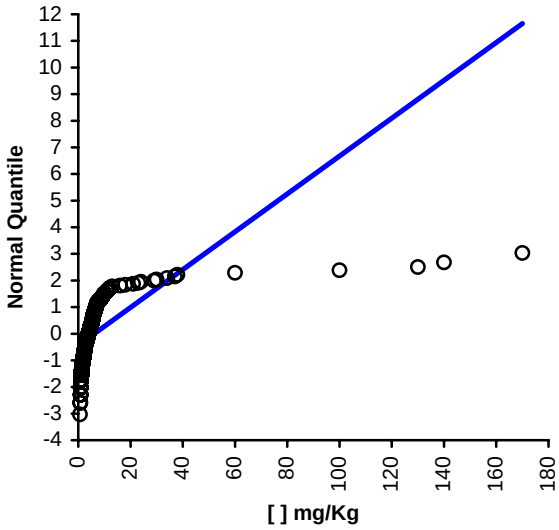
Percentile	
2.5th	-0.699
25th	-0.523
50th	-0.301
75th	-0.301
97.5th	0.041

	Coefficient	**p**
Kolmogorov-Smirnov	5.3802	< 0.01
Skewness	0.6261	<0.0001
Kurtosis	5.7055	<0.0001

Test	**Continuous summary descriptives**
Variable	Nickel in soil
Performed by	tl
Date	15 April 2005





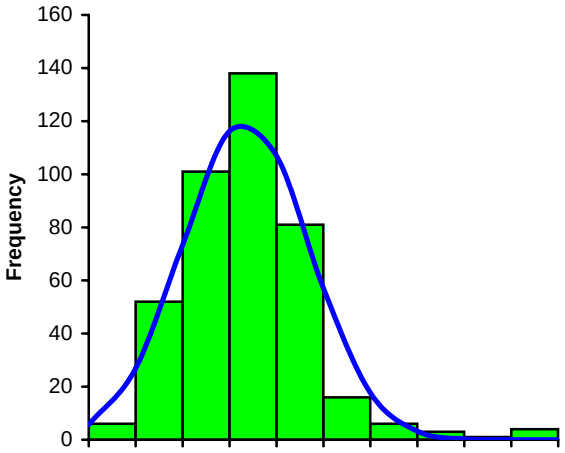


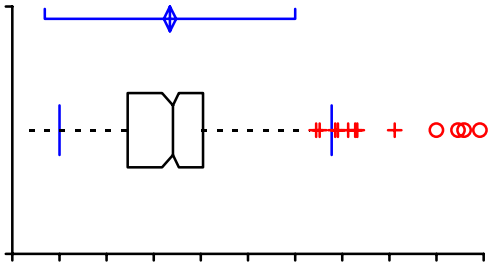
n	408
Mean	6.173
95% CI	4.804 to 7.541
Variance	197.7843
SD	14.0636
SE	0.6963
CV	228%
% Detection	99.5%
Minimum	0.7
Maximum	170
Median	4.000
95.8% CI	3.500 to 4.300
Range	169.3
IQR	3.475

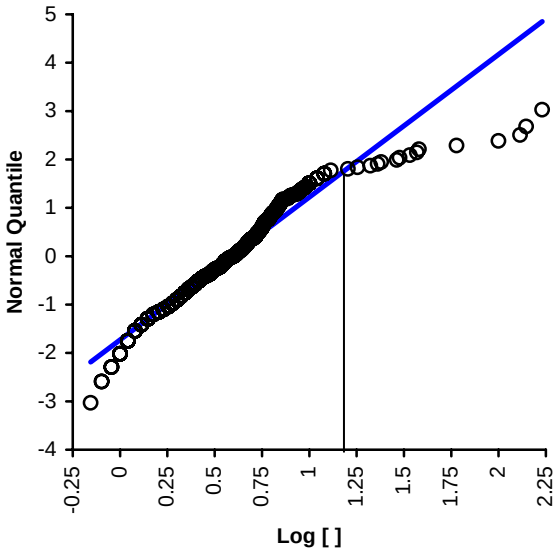
Percentile	
2.5th	1.000
25th	2.300
50th	4.000
75th	5.775
97.5th	27.875

	Coefficient	**p**
Kolmogorov-Smirnov	7.0967	< 0.01
Skewness	8.6885	<0.0001
Kurtosis	84.0218	<0.0001

Test	**Continuous summary descriptives**
Variable	Nickel in soil
Performed by	tl
Date	15 April 2005





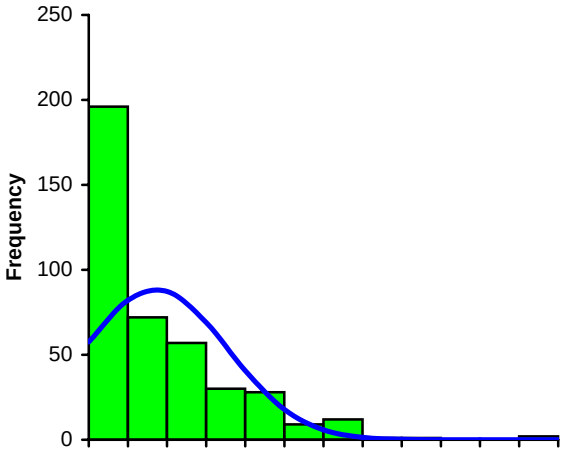


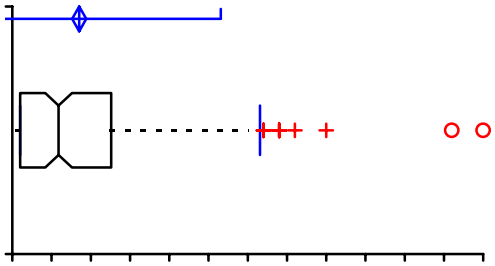
n	408
Mean	0.586
95% CI	0.553 to 0.619
Variance	0.1149
SD	0.3389
SE	0.0168
CV	58%
% Detection	99.5%
Minimum	-0.1549
Maximum	2.2304
Median	0.602
95.8% CI	0.544 to 0.633
Range	2.385
IQR	0.400

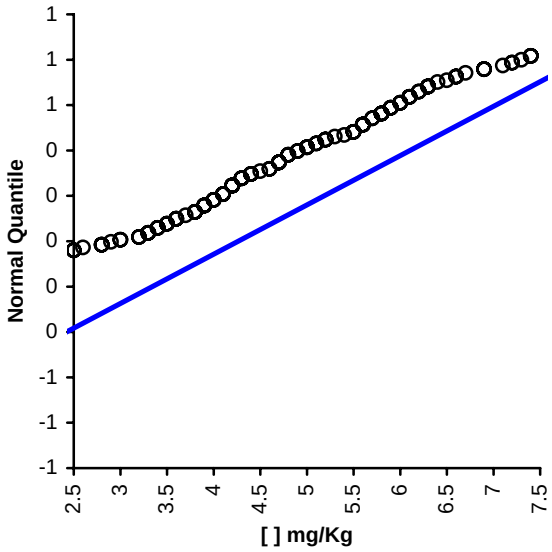
Percentile	
2.5th	0.000
25th	0.362
50th	0.602
75th	0.762
97.5th	1.444

	Coefficient	**p**
Kolmogorov-Smirnov	1.8578	< 0.01
Skewness	1.0457	<0.0001
Kurtosis	3.7124	<0.0001

Test	**Continuous summary descriptives**
Variable	Selenium in soil
Performed by	tl
Date	15 April 2005





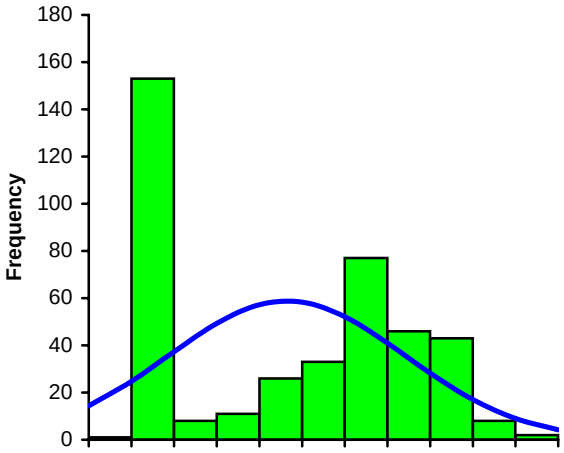


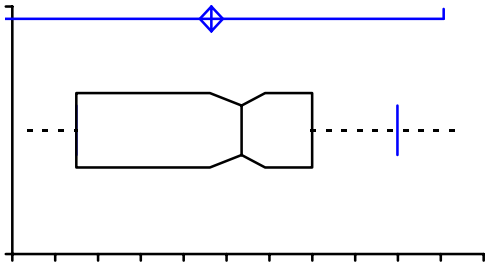
n	408
Mean	4.263
95% CI	3.816 to 4.711
Variance	21.1874
SD	4.6030
SE	0.2279
CV	108%
% Detection	63.2%
Minimum	0.3
Maximum	30
Median	2.950
95.8% CI	2.100 to 3.800
Range	29.7
IQR	5.8

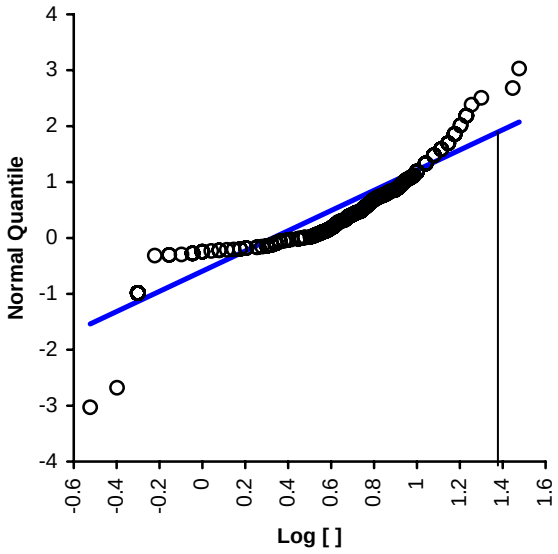
Percentile	
2.5th	0.500
25th	0.500
50th	2.950
75th	6.300
97.5th	15.775

	Coefficient	**p**
Kolmogorov-Smirnov	4.0844	< 0.01
Skewness	1.6584	<0.0001
Kurtosis	3.9183	<0.0001

Test	**Continuous summary descriptives**
Variable	Selenium in soil
Performed by	tl
Date	15 April 2005





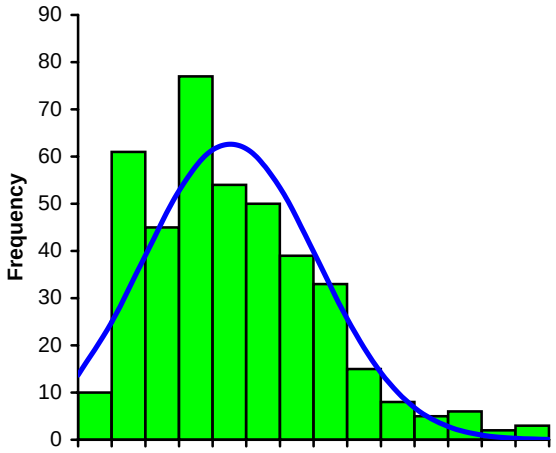


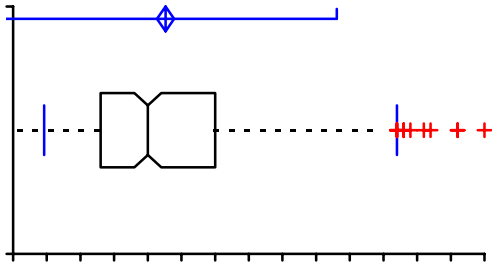
n	408
Mean	0.329
95% CI	0.275 to 0.383
Variance	0.3064
SD	0.5535
SE	0.0274
CV	168%
% Detection	63.2%
Minimum	-0.5229
Maximum	1.4771
Median	0.470
95.8% CI	0.322 to 0.580
Range	2
IQR	1.1004

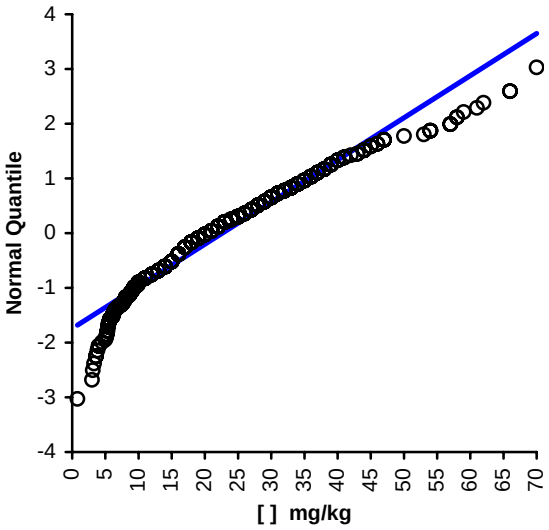
Percentile	
2.5th	-0.301
25th	-0.301
50th	0.470
75th	0.799
97.5th	1.198

	Coefficient	**p**
Kolmogorov-Smirnov	5.0049	< 0.01
Skewness	0.0155	0.8971
Kurtosis	-1.5700	<0.0001

Test	**Continuous summary descriptives**
Variable	Vanadium in soil
Performed by	tl
Date	15 April 2005





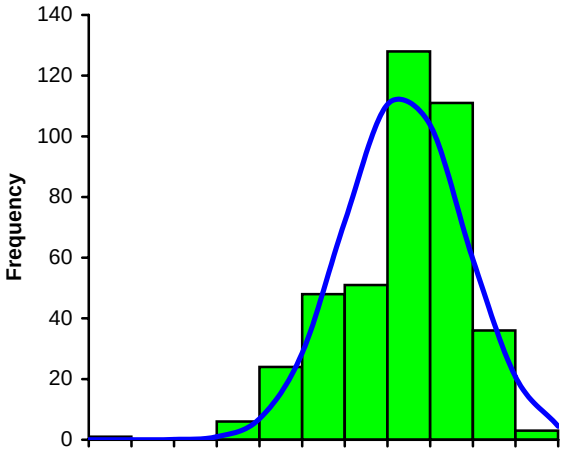


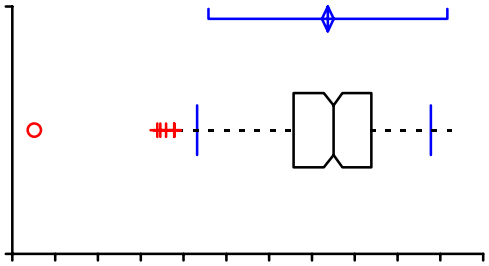
n	408
Mean	22.636
95% CI	21.373 to 23.899
Variance	168.4383
SD	12.9784
SE	0.6425
CV	57%
% Detection	100.0%
Minimum	0.8
Maximum	70
Median	20.000
95.8% CI	18.000 to 22.000
Range	69.2
IQR	17

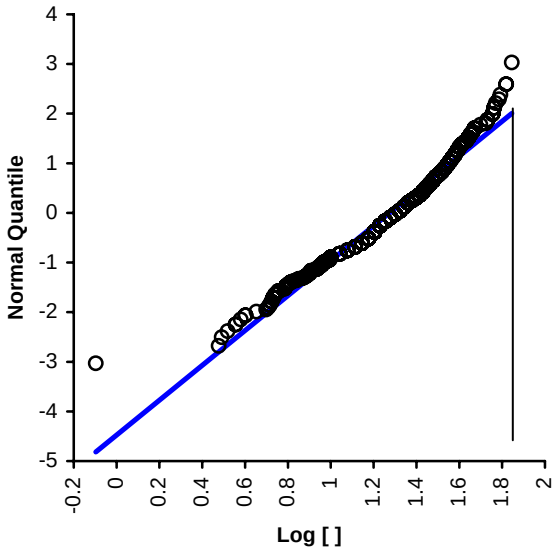
Percentile	
2.5th	4.613
25th	13.000
50th	20.000
75th	30.000
97.5th	57.000

	Coefficient	**p**
Kolmogorov-Smirnov	1.8808	< 0.01
Skewness	0.8751	<0.0001
Kurtosis	0.6938	0.0190

Test	**Continuous summary descriptives**
Variable	Vanadium in soil
Performed by	tl
Date	15 April 2005





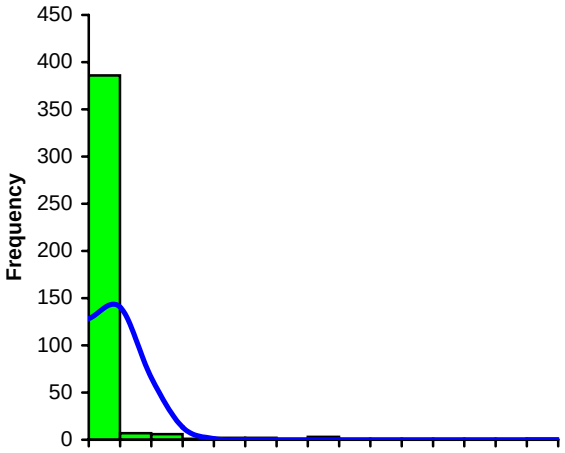


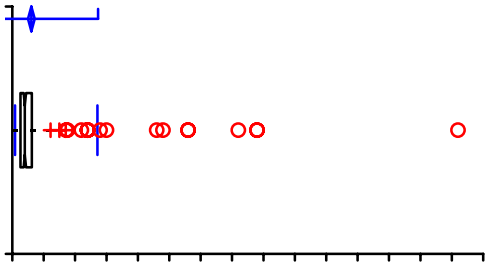
n	408
Mean	1.274
95% CI	1.247 to 1.302
Variance	0.0811
SD	0.2847
SE	0.0141
CV	22%
% Detection	100.0%
Minimum	-0.0969
Maximum	1.8451
Median	1.301
95.8% CI	1.255 to 1.342
Range	1.942008053
IQR	0.363177902

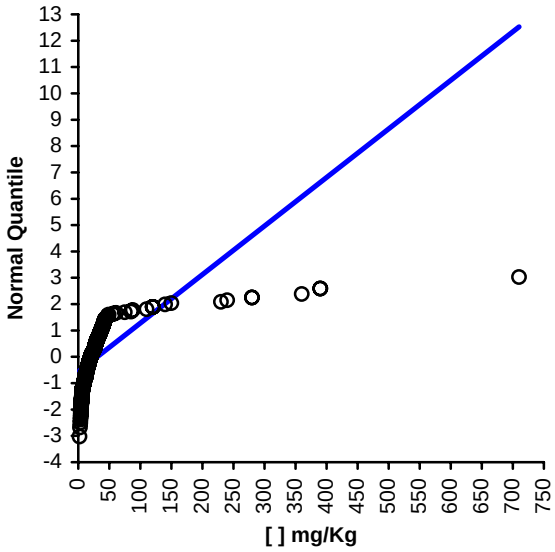
Percentile	
2.5th	0.664
25th	1.114
50th	1.301
75th	1.477
97.5th	1.756

	Coefficient	**p**
Kolmogorov-Smirnov	1.7008	< 0.01
Skewness	-0.7273	<0.0001
Kurtosis	0.8552	0.0064

Test	**Continuous summary descriptives**
Variable	Zinc in soil
Performed by	tl
Date	15 April 2005





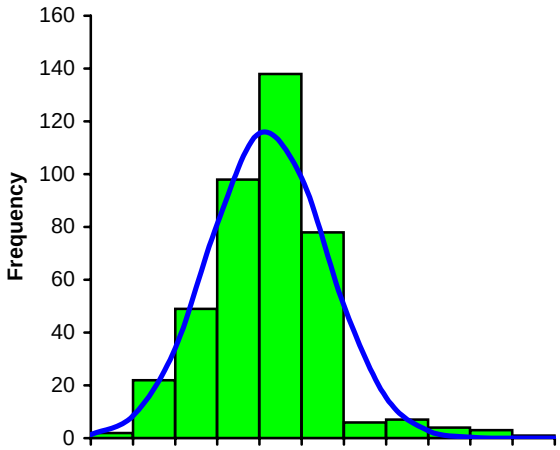


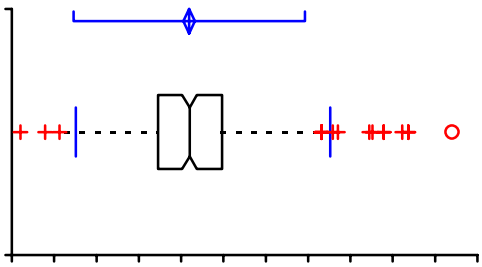
n	408
Mean	30.377
95% CI	25.097 to 35.658
Variance	2943.7091
SD	54.2560
SE	2.6861
CV	179%
% Detection	100.0%
Minimum	2
Maximum	710
Median	20.0
95.8% CI	18.0 to 22.0
Range	708
IQR	18

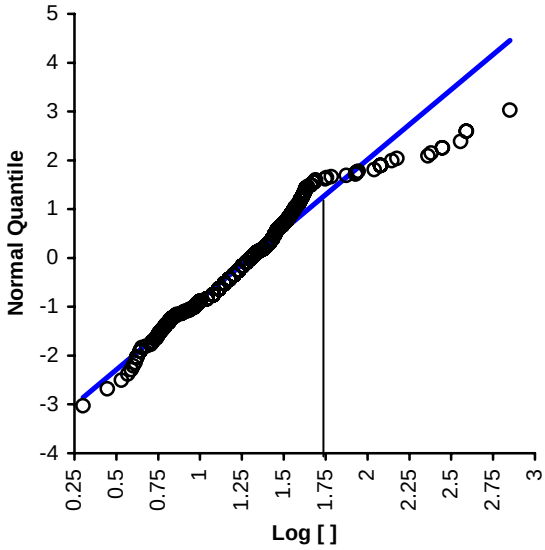
Percentile	
2.5th	4.245
25th	13.000
50th	20.000
75th	31.000
97.5th	135.500

	Coefficient	**p**
Kolmogorov-Smirnov	6.7671	< 0.01
Skewness	7.6780	<0.0001
Kurtosis	74.8426	<0.0001

Test	**Continuous summary descriptives**
Variable	Zinc in soil
Performed by	tl
Date	15 April 2005







n	408
Mean	1.298
95% CI	1.264 to 1.332
Variance	0.1217
SD	0.3488
SE	0.0173
CV	27%
% Detection	100.0%
Minimum	0.3010
Maximum	2.8513
Median	1.301
95.8% CI	1.255 to 1.342
Range	2.5502
IQR	0.3774

Percentile	
2.5th	0.628
25th	1.114
50th	1.301
75th	1.491
97.5th	2.131

	Coefficient	**p**
Kolmogorov-Smirnov	1.9110	< 0.01
Skewness	0.6076	<0.0001
Kurtosis	2.3122	<0.0001

APPENDIX G

BUILDING 131/242 PILOT STUDY REPORT

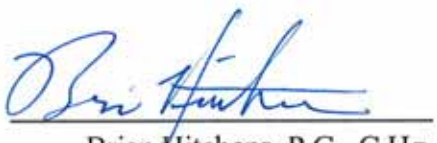
Prepared for

TDY Industries, Inc
1000 Six PPG Place
Pittsburgh, Pennsylvania

Enhanced In-Situ Bioremediation Pilot Study Building 131/242

2701 North Harbor Drive San Diego, California

Prepared by



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11 June 2008

Geosyntec
consultants

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Attachment A: Radius of Influence Test Technical Memorandum
Attachment B: Pilot Study Analytical Reports (Compact Disc)
Attachment C: Injection Field Sheets (Compact Disc)
Attachment D: Photographs of Pilot Study

1 INTRODUCTION

This Pilot Study Report (Report) has been prepared by Geosyntec Consultants (Geosyntec) on behalf of TDY Industries, Inc. for the Airport/Former Teledyne Ryan Aeronautical site located at 2701 North Harbor Drive in San Diego, California (Site). This Report summarizes the methods and results of the Enhanced In-situ Bioremediation (EISB) Pilot Study that was commenced on 11 September 2007 in the Building 131/242 Area of Concern (AOC). The work was performed in accordance with the Remedial Investigation and Feasibility Study (RI/FS) dated 30 March 2007 and the Remedial Action Plan (RAP) dated 30 May 2007. This Report was prepared by Mr. Chris Lieder and reviewed by Mr. Brian Hitchens, PG, CHG, and Mr. Sam Williams, PG, CHG, of Geosyntec in accordance with the peer review policy of the firm.

1.1 Background

The Building 131/242 AOC consists of by an area of soil, soil gas, and groundwater impacted predominantly with volatile organic compounds (VOCs) located between Buildings 131 and 242 (Figure 1). A bench scale study was performed to evaluate whether EISB is a viable option to reduce concentrations of VOCs in Site groundwater. Bench-scale microcosms evaluated the attenuation of VOCs after the addition of various electron donors and, in some cases, microbial cultures. The bench scale study data indicated that EISB, using an emulsified oil donor, and supplemented with the KB-1 microbial culture, resulted in complete degradation of chlorinated hydrocarbons to ethene. Based on the results of this pilot study it was estimated that Risk Based Concentrations (RBCs), as presented in the RI/FS, could be achieved within treated areas within approximately 2 years.

Based on the promising bench scale results, a pilot study was recommended to evaluate the effectiveness of EISB in a field implementation and to refine field techniques in advance of a full scale implementation. The Building 131/242 AOC was selected as the pilot study area as it contains a relatively discreet area of impacted groundwater with elevated VOC concentrations indicative of potential dense non-aqueous phase liquid (DNAPL).

1.2 Purpose

The purpose of this Report is to present the results of the EISB Pilot Study, evaluate the effectiveness of EISB as a remedial option, and, if appropriate, make recommendations for full scale remediation.

1.3 Report Organization

- Section 2, "*Pre-Pilot Study Injection Test,*" summarizes the implementation and results of the injection test performed prior to the pilot study.
- Section, 3, *"Pilot Study Injection Implementation,"* summarizes the methods used in the implementation of the pilot study injections.
- Section 4, *"Pilot Study Groundwater Monitoring Results,"* summarizes the groundwater monitoring results for the pilot study performed in the Building 131/242 AOC.
- Section 5, "*Summary and Recommendations*," summarizes the results of the pilot study and presents recommendations for future full scale EISB.
- Section 6, "*References*," lists the documents cited in this report

2 PRE-PILOT STUDY INJECTION TEST

Geosyntec performed an injection test in Area of Concern (AOC) Building 131/242 to evaluate design parameters assumptions for implementation of EISB Pilot Study. The design parameters assumptions to be evaluated were:

- An initial 5-foot radius of influence (ROI) could be achieved by injecting 1,310 gallons of 1% emulsified vegetable oil (EVO) solution (volume of EVO per volume of solution);
- An injection rate of fifteen gallons per minute (gpm) could be achieved with an injection pressure of 15 psig.

2.1 Radius of Influence Estimate

As described in the radius of influence test technical memorandum (Attachment A), the injection test indicated that the initially proposed injection volume of 1,310 gallons of EVO solution per point resulted in a radius of influence (ROI) slightly greater than 4 feet. To increase the ROI to 5 feet, it was recommended that 310 gallons of push water (unamended municipal water) be injected after the injection of the EVO solution had been completed.

2.2 Injection Flow Rates and Pressure

Flow rates and pressure were measured during the injection test. The first test was conducted at a pressure of 15 pounds per square inch (psi). A flow rate (11 gallons per minute (gpm)) was recorded. The second injection test was conducted at a flow rate of 20 gpm. The resulting pressure was somewhat less than 30 psi.

3 PILOT TEST IMPLEMENTATION

Emulsified vegetable oil (EVO) and KB-1® microbial culture were injected into the subsurface using temporary injection points during the period from 11 September 2007 to 4 October 2007. Prior to construction of the temporary injection points, a geophysical subcontractor identified and marked all subsurface utilities and obstructions. Also, Underground Services Alert of Southern California (DigAlert) was notified at least 48 hours prior to commencement of sub-surface activities. A blanket boring permit was obtained from the County of San Diego Department of Environmental Health (DEH) for all of the pilot study injection points.

3.1 Injection Point Layout and Design

The injection points were installed by direct-push to an approximate depth of 15 feet below ground surface (bgs) and were screened from 7 to 15 feet bgs. The injection screen was 1½-inch in diameter and was covered with a coarse filter cloth to prevent clogging of the screen with silt. The blank portion, from the top of the screen to ground surface, was 3¼-inches in diameter to provide a more competent surface seal.

The injection points were installed on 12-foot centers in the portion of the AOC containing groundwater with VOC concentrations indicative of the potential presence of dense non-aqueous phase liquid (DNAPL). Areas of the AOC with groundwater impacts above the RBC, but below the concentrations indicative of potential DNAPL were injected on 14-foot centers (Figure 2). Using this injection pattern, 254 injection points were advanced across the AOC. Approximately 1,310 gallons of 1% EVO solution, 0.14 gallons microbial culture, and 310 gallons of unamended municipal water (approximately 1,620 gallons total) were injected into each well across the 8-foot screen interval.

During the injection test, fine silt within the formation was observed to flow into the perforated injection rods. The silt prevented efficient injection into the rods. This was later determined to occur immediately during advancement and could not be effectively mitigated through maintaining a water column in the rods. This issue was resolved in the field by wrapping a coarse filter cloth around the rods prior to advancement at each location.

3.2 Injection Procedures

Because reductively dechlorinating bacteria are adversely affected by oxygen, municipal water, which contains significant dissolved oxygen (DO), is typically not appropriate for direct injection of the microbial culture. Therefore, the following procedure was employed for the injection of the anaerobic microbial culture in conjunction with EVO solution mixed using municipal water.

The procedure that was employed consisted of the following:

1. Inject approximately 50% of the target volume of EVO solution mixed with municipal water;
2. Inject 50 gallons of a pre-prepared anaerobic EVO solution;
3. Inject the microbial culture;
4. Inject 50 more gallons of the anaerobic EVO solution to follow the culture;
5. Inject the remaining EVO solution mixed with municipal water; and
6. Inject 310 gallons of unamended municipal water to push the entire solution to the proposed 5 foot ROI.

By following this procedure, the culture was introduced into the groundwater within a protective ring of anaerobic water. In this manner, the natural microbial community in the subsurface rapidly depleted the dissolved oxygen in the municipal water before the microbial culture could be adversely affected.

The EVO solution was metered into each injection point using an in-line doser (Attachment C). Individual flow totalizers were used to manage the volume of injectant which was introduced at each point. Control valves were used to meter and control the pressure and volume injected into each injection point. After injection at a given point was completed, the injection rods were removed and the injection location was backfilled with grout.

4 PILOT STUDY GROUNDWATER MONITORING RESULTS

A baseline sampling event was performed on 23 August 2007 in advance of the implementation of the pilot study injections. Groundwater samples were collected from monitor wells B131-MW2, -MW6, and -MW5 for volatile organic compounds (VOCs), ethane, ethene, methane, organic acids, chloride, nitrate, nitrite, sulfate, sulfide, and TOC (EISB sampling suite) using low flow purge methodology. B131-MW3 was added to the EISB sampling program during the first quarter 2008 sample event.Post injection sampling using low flow purge methodology was performed at 1, 3, and 6-months (19 November 2007, 22 January 2008, and 21 April 2008, respectively) after final injections. Samples were analyzed for the same parameters as the baseline sampling. At 1-month, Gene Trac samples were collected at monitor wells B131-MW2, -MW5, and -MW6. Gene Trac samples measure the concentration of the active microbial strain *Dehalococcoides ethenogenes* (DHE) in the groundwater. A Gene Trac sample was collected from monitor well B131-MW3 at 3-months.

4.1 Baseline Sample Results

The baseline data supports that biodegradation is occurring naturally in this area (Table 1). Each well sampled during the baseline monitor event on 23 August 2007 contained ethene, which demonstrates complete degradation of chlorinated VOCs is occurring over a wide area in the AOC. The groundwater within the pilot study area was strongly reducing during the baseline event, and contained low levels of TOC to support microbial activity, although high background sulfate levels within the study areas would compete for this limited supply of electron donor.

Distribution of parent and daughter compounds throughout the study area also strongly indicates that natural degradation is occurring within the study area. Elevated concentrations of parent chlorinated VOCs (PCE and TCE) are observed in groundwater samples from monitor well B131-MW2, which appears to be near a potential source area for this AOC. Downgradient monitor wells B131-MW6 and B131-MW5 contain little to no parent compounds but elevated concentrations of daughter products cis-1,2-DCE and vinyl chloride. This is a further indication that natural degradation was occurring prior to biostimulation or bioaugmentation, although the degradation rate was likely limited due to naturally low TOC and high sulfate conditions.

4.2 Potential DNAPL Area Results

Monitor well B131-MW2 is located in the northern section of the area of potential DNAPL (Figure 3) and is located 3.2 feet from the nearest injection point. After the first month, RBCs had been achieved for tetrachloroethene (PCE) and trichloroethene (TCE). Cis-1,2-Dichloroethene (cis-1,2 DCE) was reduced from 3,200 µg/L to 1,900 µg/L, while an interim increase in vinyl chloride (VC) from 340 µg/L to 680 µg/L was observed. Ethene increased substantially from 13.1 µg/L to 1,220 µg/L. This data is indicative of complete chlorinated hydrocarbon degradation to ethene. The groundwater samples collected from B131-MW2 during the 3-month and the 6-month sampling event contained no detectable concentrations of PCE or TCE, with cis-1,2-DCE and VC concentrations reduced to well below RBCs. Ethene concentrations detected in the 3-month and 6-month samples were lower than the concentrations detected in the 1-month sample, as a result of correspondingly lower VOC concentrations (Table 1, Figure 4).

Monitor well B131-MW3 is located in the southern section of the area of potential DNAPL (Figure 3) and is located 5.6 feet from the nearest injection point. This well was added to the performance sampling schedule to evaluate the southern portion of the potential DNAPL zone. This well was not sampled during the baseline sampling event so the site wide data collected in 2005 (Geosyntec, 2005) is used as an approximate baseline. When this well was first sampled 3-months after injection, groundwater samples contained no detectable chlorinated VOCs. The ethene concentration at 3-months was 431 µg/L. The 6-month sampling event showed similar chlorinated VOC and lower ethene (6.57 µg/L) concentrations (Table 1, Figure 5).

4.3 Dissolved Phase Area Results

Monitor well B131-MW6 is located in the center of the AOC (Figure 3), is located 4.5 feet from the nearest injection point, and did not contain baseline concentration indicative of potential DNAPL. Groundwater samples collected from monitor well B131-MW6 show a decrease in cis-1,2-DCE from a baseline concentration of 22,000 µg/L to below the RBC within the first month. VC also decreased from 4,600 µg/L to 2,100 µg/L and ethene concentrations increased from 36.2 µg/L to 1,720 µg/L. The elevated ethene concentration indicates that complete degradation of VOCs is occurring. Chlorinated VOC concentrations continued to decline at the 3-month post injection sample event with a slight rebound observed of cis-1,2-DCE and VC during

the 6-month monitoring event. Increasing ethene concentrations greater than 1,000 µg/L provide continued strong indication of complete degradation (Table 1, Figure 6).

Monitor well B131-MW5 is located in the downgradient section of the AOC (Figure 3), is located 6.5 feet from the nearest injection point, and did not contain baseline concentrations indicative of potential DNAPL. Groundwater samples collected from monitor well B131-MW5 contained no detectable concentrations of PCE or TCE. At the 1-month sampling event, chlorinated VOCs showed a decrease from baseline conditions, with cis-1,2-DCE decreasing from 27,000 µg/L to 7,200 µg/L and VC decreasing from 4,200 µg/L to 3,800 µg/L. Ethene increased from 19.6 µg/L to 774 µg/L demonstrating that complete reductive dechlorination of VOCs was occurring. Groundwater samples collected from monitor well B131-MW5 during the 3-month sampling event showed continued reduction of cis-1,2-DCE and VC. After 6-months, cis-1,2-DCE concentrations in the groundwater sample from B131-MW5 were reduced to below the RBC. The slight increase of VC observed during the 6-month sampling event is typical of the chlorinated VOC degradation pathway and was accompanied by a corresponding increase in ethene (Table 1, Figure 7).

4.4 Evaluation of Microbial Culture and EVO Distribution

Gene Trac samples were collected during the 1-month post injection sampling event from B131-MW2, -MW5, -MW6 and 3-month post injection sampling for B131-MW3. These samples indicate extremely robust DHE populations throughout the injected area (Table 2). Typically, concentrations of DHE of $1x10^7$ cells/L indicate the potential for strong degradation activity. The observed concentrations of $6x10^7$ to $2x10^9$observed in samples collected from throughout the Building 131/242 pilot study area are consistent with the rapid degradation rates observed.

TOC concentrations within the potential DNAPL area remained high throughout post injection sampling events, indicating that sufficient electron donor was injected to effect complete dechlorination within the potential DNAPL area. The residual elevated TOC concentrations will continue to support a robust microbial community within this area. Because of this ongoing microbial degradation, the potential for rebound of VOC concentrations in groundwater is reduced. Measured TOC concentrations within the downgradient, dissolved phase area were significantly lower. Monitor well B131-MW5 is located 6.5 feet from the closet injection point, outside of the immediate ROI of the injectant. Although there is a greater spacing between injection points in the downgradient area, significant VOC reductions have been observed in the initial six

months of observation (Table 1). It is anticipated that measured VOC concentrations will continue to decline in the downgradient monitor wells as the ROI of the surrounding injection points continue to expand through diffusion.

Sulfate is a primary competing electron receptor which is reduced concurrently with VOCs. The sulfate concentrations within the potential DNAPL area were significantly reduced indicating that sulfate concentrations were effectively addressed by the initial injection of electron donor. Small increases in sulfide were also observed in several wells associated with this sulfate reduction. Some residual sulfate is observed in downgradient monitor wells B131-MW5 and B131-MW6, which corresponds with the generally lower TOC observed in these monitor wells. It is anticipated that sulfate concentrations will continue to decline in the downgradient monitor wells as the ROI of surrounding injections expands through diffusion. Nitrate, another potential electron receptor, was not detected during the baseline or subsequent monitoring events.

The high background chloride concentration in groundwater masked any trends in chloride concentration which could be attributed to VOC reduction. Methane was observed to increase for approximately 3-6 months after the injection of electron donor while TOC concentrations were elevated. This indicates the stimulation of highly reductive (methanogenic) microbial conditions, typically observed in biostimulation/ bioaugmentation. These highly reducing conditions were further confirmed by very low oxidation reduction potential (ORP) readings from the monitor wells within the pilot study area. High concentrations of organic acids (lactic acid, acetic acid, and propionic acid), which are formed during the fermentation of the emulsified oil, also correlate well with elevated TOC concentrations in monitor wells B131-MW2 and B131-MW3.

5 SUMMARY AND RECOMMENDATIONS

The Building 131/242 EISB pilot study has demonstrated the suitability of EISB to degrade chlorinated VOCs and achieve RBCs in groundwater. During the pilot study, EISB was able to rapidly degrade VOC concentrations (including those potentially indicative of DNAPL) to RBCs in as quickly as 6-months. RBCs have been met in two of the four monitor wells with significant VOC reductions and elevated ethene concentrations indicative of complete dechlorination in the other two monitor wells. Ongoing monitoring will be conducted to further document the results of the EISB pilot study in the Building 131/242 area.

It is recommended that this remedial alternative be applied to the remediation of remaining AOCs with chlorinated VOCs in excess of RBCs in groundwater. Based upon this study, the one recommended design modification consists of increasing EVO solution volume by 10% in 14-foot spaced wells to 1,450 gallons per point, followed by 310 gallons of push water. This modification will increase the injection ROI and TOC distribution within the AOC.

6 REFERENCES

Geosyntec, 2005. *Site Characterization Report, 2701 North Harbor Drive, San Diego, California.* December 19, 2005.

Geosyntec, 2007a. *Remedial Investigation/Feasibility Study Airport/Former TRA Facility, 2701 North Harbor Drive, San Diego, California,* March 2007.

Geosyntec, 2007b. *Remedial Action Plan, 2701 North Harbor Drive, San Diego, California.* May, 2007.

TABLES

Geosyntec consultants

Table 1
Summary of Building 131/242 EISB Pilot Study Analytical Results
2701 North Harbor Drive
San Diego , California

Well ID	Date	PCE (ug/L)	PCE (mMol/L)	TCE (ug/L)	TCE (mMol/L)	cis-1,2-DCE (ug/L)	cis-1,2-DCE (mMol/L)	Vinyl chloride (ug/L)	Vinyl chloride (mMol/L)	Ethene (ug/L)	Ethene (mMol/L)	Ethane (ug/L)	Ethane (mMol/L)
B131-MW2	8/4/2005	39,000	2.4E-01	7,400	5.6E-02	6,200	6.4E-02	810	1.3E-02	NA	NA	NA	NA
	8/23/2007	28,000	1.7E-01	5,300	4.0E-02	3,200	3.3E-02	340	5.4E-03	13.1	4.7E-04	16.3	5.8E-04
	11/19/2007	9.5	5.7E-05	11	8.4E-05	1,900	2.0E-02	680	1.1E-02	1,220	4.3E-02	95	3.4E-03
	1/21/2008	ND<0.5	-	ND<0.5	-	1.6	1.7E-05	4.9	7.8E-05	214	7.6E-03	38.2	1.4E-03
	4/21/2008	ND<1.0	-	ND<1.0	-	4.2	4.3E-05	13	2.1E-04	444	1.6E-02	11.9	4.2E-04
B131-MW3	8/4/2005	9,400	5.7E-02	4,300	3.3E-02	11,000	1.1E-01	1,900	3.0E-02	NA	NA	NA	NA
	1/22/2008	ND<0.5	-	ND<0.5	-	ND<0.5	-	ND<0.5	-	431	1.5E-02	14.6	5.2E-04
	4/21/2008	ND<1.0	-	ND<1.0	-	ND<1.0	-	0.98	1.6E-05	6.57	2.3E-04	1.67	6.0E-05
B131-MW5	8/5/2005	25	1.5E-04	25	1.9E-04	5,000	5.2E-02	4,200	6.7E-02	NA	NA	NA	NA
	8/23/2007	24	1.4E-04	4.9	3.7E-05	27,000	2.8E-01	4,200	6.7E-02	19.6	7.0E-04	154	5.5E-03
	11/19/2007	ND<2.5	-	ND<2.5	-	7,200	7.4E-02	3,800	6.1E-02	774	2.8E-02	191	6.8E-03
	1/22/2008	ND<12.5	-	ND<12.5	-	3,100	3.2E-02	2,700	4.3E-02	19.2	6.8E-04	52.2	1.9E-03
	4/21/2008	ND<20	-	ND<20	-	1,500	1.5E-02	3,900	6.2E-02	640	2.3E-02	88	3.1E-03
B131-MW6	8/23/2007	ND<0.5	-	ND<0.5	-	22,000	2.3E-01	4,600	7.4E-02	36.2	1.3E-03	262	9.3E-03
	11/19/2007	ND<2.5	-	ND<2.5	-	510	5.3E-03	2,100	3.4E-02	1,720	6.1E-02	112	4.0E-03
	1/21/2008	ND<2.5	-	ND<2.5	-	190	2.0E-03	600	9.6E-03	451	1.6E-02	30.6	1.1E-03
	4/21/2008	ND<5.0	-	ND<5.0	-	800	8.3E-03	850	1.4E-02	1,070	3.8E-02	52.8	1.9E-03

Risk Based Concentration (RBC)	ug/L
PCE	320
TCE	260
cis-1,2-DCE	2400
Vinyl chloride	500

- Not calculated based on non-detect result
ND<0.5 - Not detected at concentration greater than or equal to the reporting limit
NA - Constituent not analyzed
µg/L - Micrograms per liter
mMol/L - Millimoles per liter

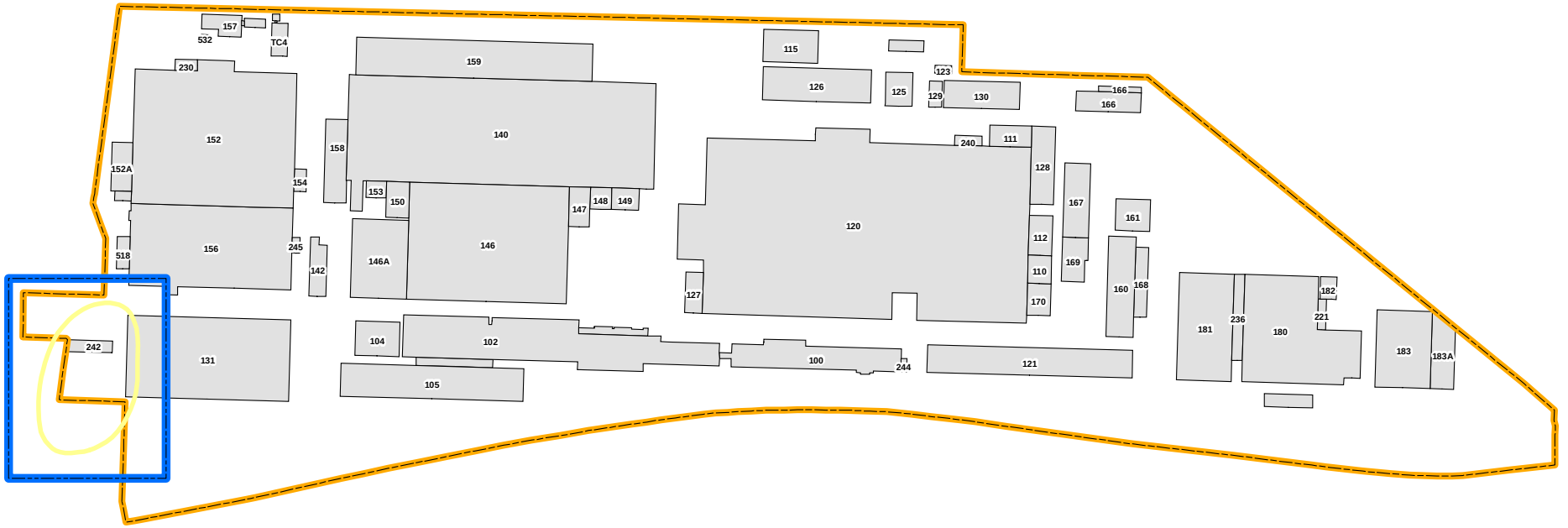
Table 2
Summary of Building 131/242 Gene Trac /General Chemistry Results
2701 North Harbor Drive
San Diego, California

Geosyntec consultants

Well ID	Date	Gene Trac cells/L	ORP (mV)	TOC (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Chloride (mg/L)	Methane (µg/L)	Acetic Acid (mg/L)	Lactic Acid (mg/L)	Propionic Acid (mg/L)
B131-MW2	8/23/2007	NA	-76	5.7	300	ND<0.05	ND<0.1	ND<0.1	490	395	ND<1.0	ND<1.0	ND<1.0
	11/19/2007	3.0E+08	-155	NA	ND<2.0	0.2	ND<0.2	ND<0.2	130	7,350	ND<100	1,000	130
	1/21/2008	NA	-97	600	1.3	ND<0.05	ND<0.1	ND<0.1	200	8,970	ND<100	1,100	ND<100
	4/21/2008	NA	-116	620	1.1	0.4	ND<0.1	ND<0.1	380	4,600	1,300	ND<50	ND<50
B131-MW3	1/22/2008	6.0E+07	-161	760	1.5	ND<0.05	ND<0.1	ND<0.1	330	9,940	ND<100	1,400	ND<100
	4/21/2008	NA	-334	400	6	4.2	ND<0.1	ND<0.1	390	4,090	910	ND<50	ND<50
B131-MW5	8/23/2007	NA	-110	9.7	580	ND<0.05	ND<0.1	ND<0.1	690	4,420	ND<1.0	ND<1.0	ND<1.0
	11/19/2007	1.0E+09	-307	NA	220	3.6	ND<0.2	ND<0.2	640	7,590	ND<25	310	ND<25
	1/22/2008	NA	-232	27	170	1.3	ND<0.1	ND<0.1	540	5,020	ND<1.0	19	ND<1.0
	4/21/2008	NA	-193	12	290	1.1	ND<0.1	ND<0.1	470	3,760	ND<1.0	ND<1.0	ND<1.0
B131-MW6	8/23/2007	NA	-105	7.6	400	ND<0.05	ND<0.1	ND<0.1	1,000	5,270	ND<1.0	ND<1.0	ND<1.0
	11/19/2007	2.0E+09	-328	NA	6.2	16	ND<0.2	ND<0.2	850	5,590	ND<50	590	ND<50
	1/21/2008	NA	-235	200	5.2	6.8	ND<0.1	ND<0.1	820	3,290	ND<100	390	ND<100
	4/21/2008	NA	-325	15	46	2.3	ND<0.2	ND<0.2	850	4,110	5.2	ND<1.0	ND<1.0

ND<0.5 - Not detected at concentration greater than or equal to the reporting limit
µg/L - Micrograms per liter
mg/L - Milligrams per liter
NA - Constituent not analyzed

FIGURES



300 150 0 300 Feet

Pilot Study Location

2701 North Harbor Drive
San Diego, California

Geosyntec consultants

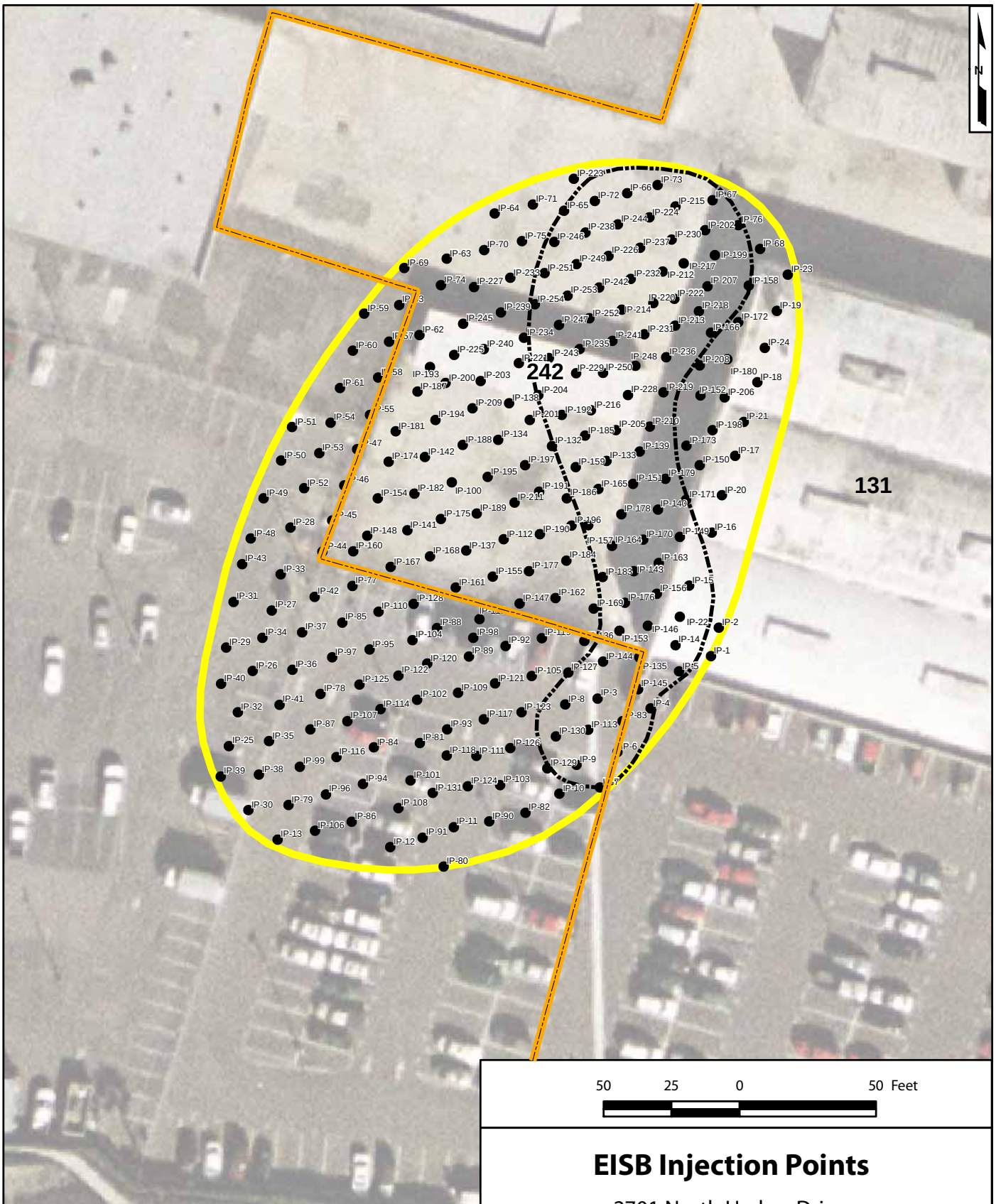
San Diego | June 2008

Figure 1

Legend

- Pilot Study Area
- Enhanced In-Situ Bioremediation Area
- Approximate Property Boundary
- 131 Building

Path: author dd-mmm-yyyy ProjNum Task Phase Document Number etc.



Legend

- Injection Point
- Extent of Constituents of Concern Exceeding RBCs
- Area of Potential DNAPL
- Approximate Property Boundary

EISB Injection Points

2701 North Harbor Drive
San Diego, California

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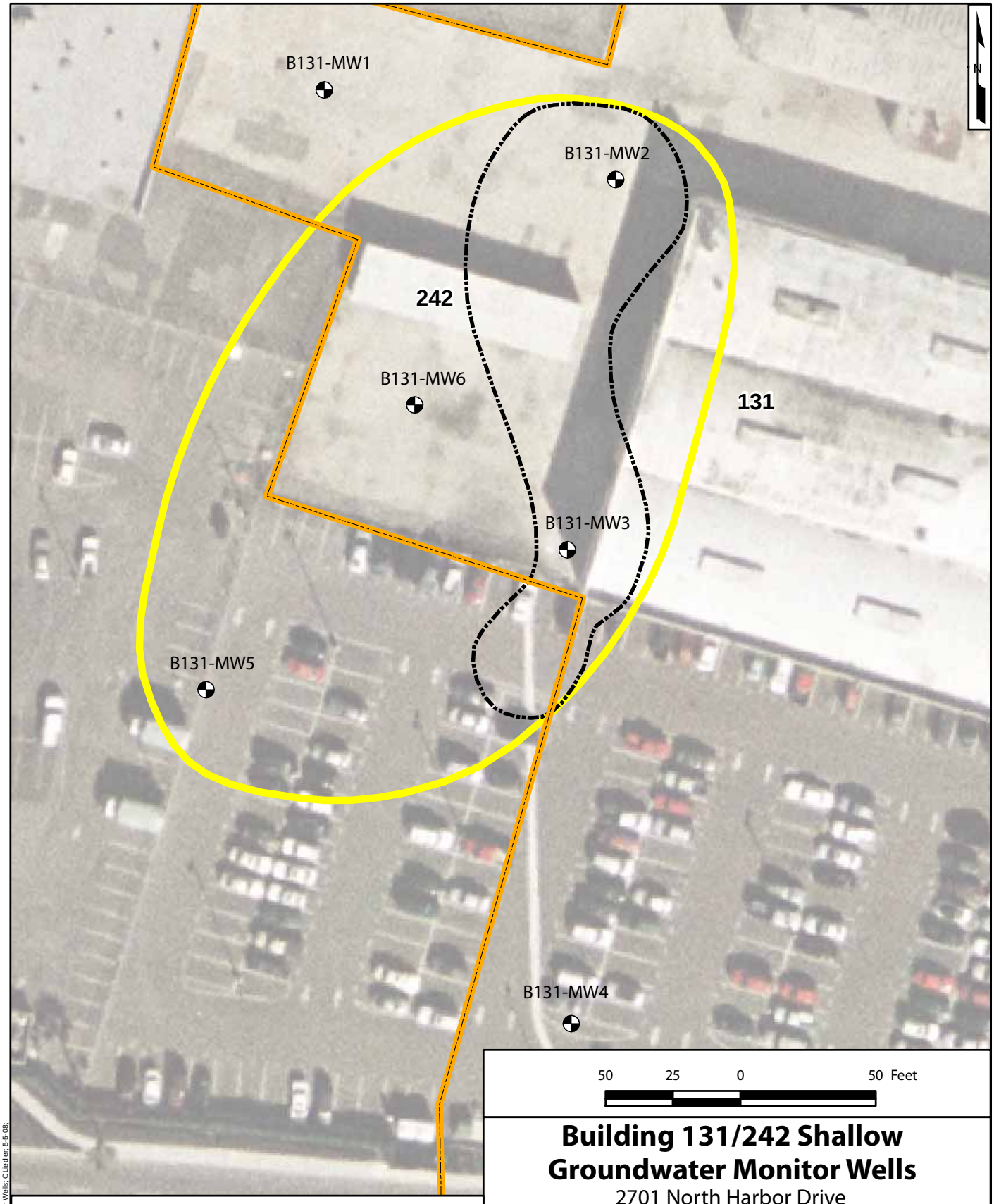
San Diego | June 2008

Figure 2

X:\GIS\TFX\Injection Points; CLiederl; 5-5-08;



Legend

- Groundwater Monitoring Well
- Extent of Constituents of Concern Exceeding RBCs
- Area of Potential DNAPL
- Approximate Property Boundary

Building 131/242 Shallow Groundwater Monitor Wells

2701 North Harbor Drive
San Diego, California

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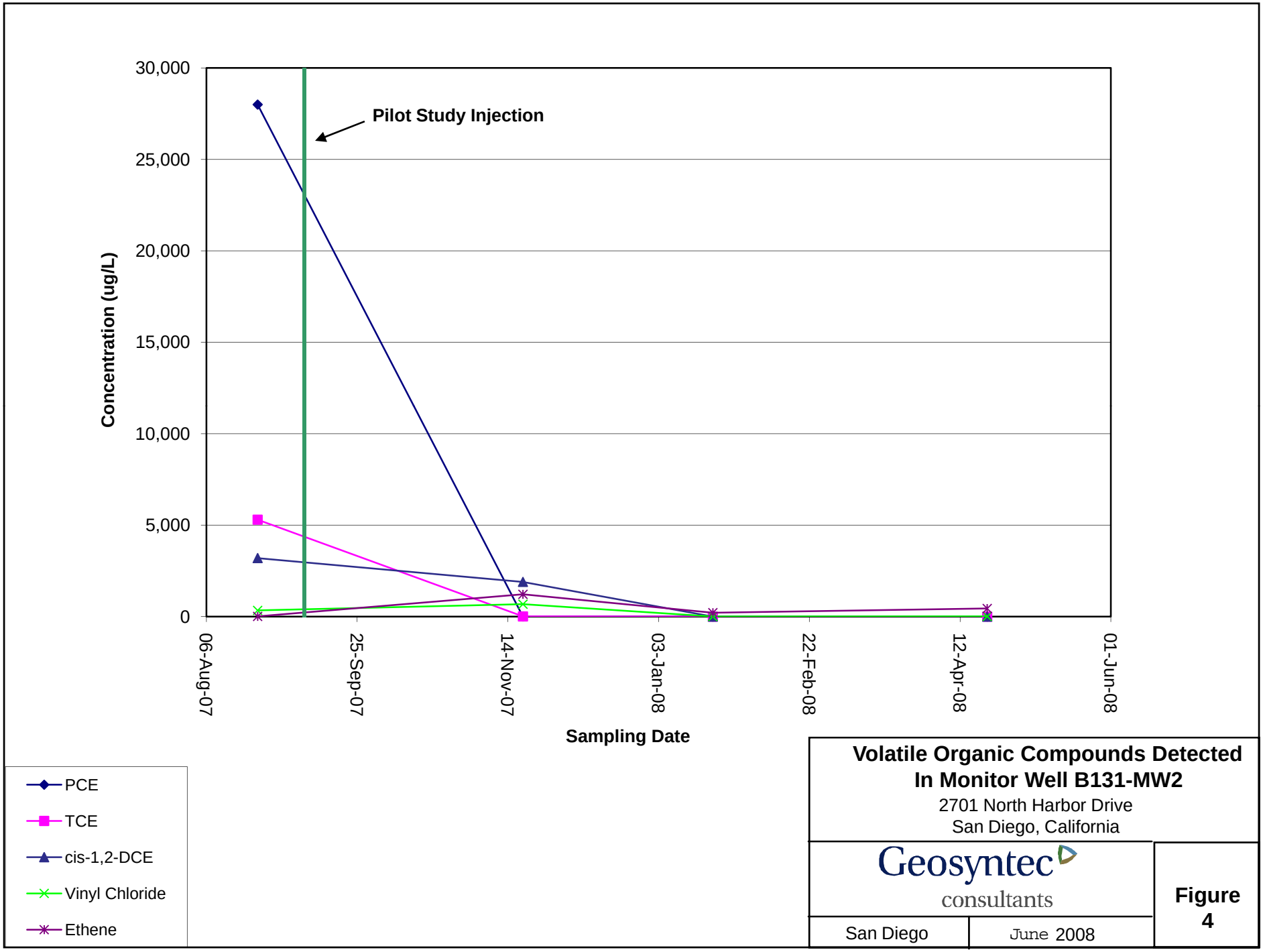
Figure 3

X:\GIS\TFY\B131\242 Shallow Groundwater Wells; CLaed; 5-5-08;



Volatile Organic Compounds Detected In Monitor Well B131-MW2

2701 North Harbor Drive
San Diego, California

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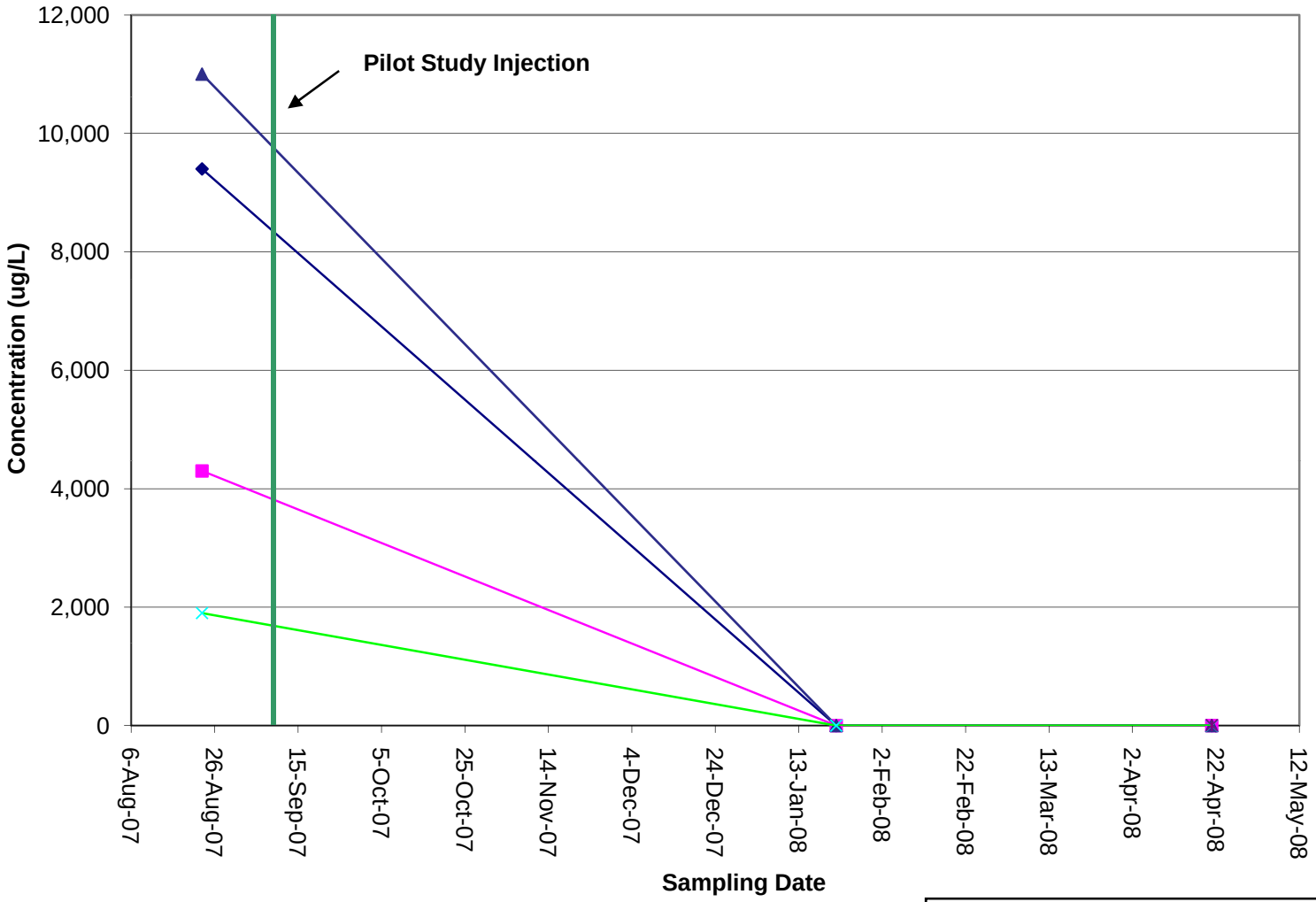
Figure 4



Pre-pilot study baseline concentration based on 2005 Geosyntec data (Geosyntec, 2005)

Volatile Organic Compounds Detected In Monitor Well B131-MW3

2701 North Harbor Drive
San Diego, California

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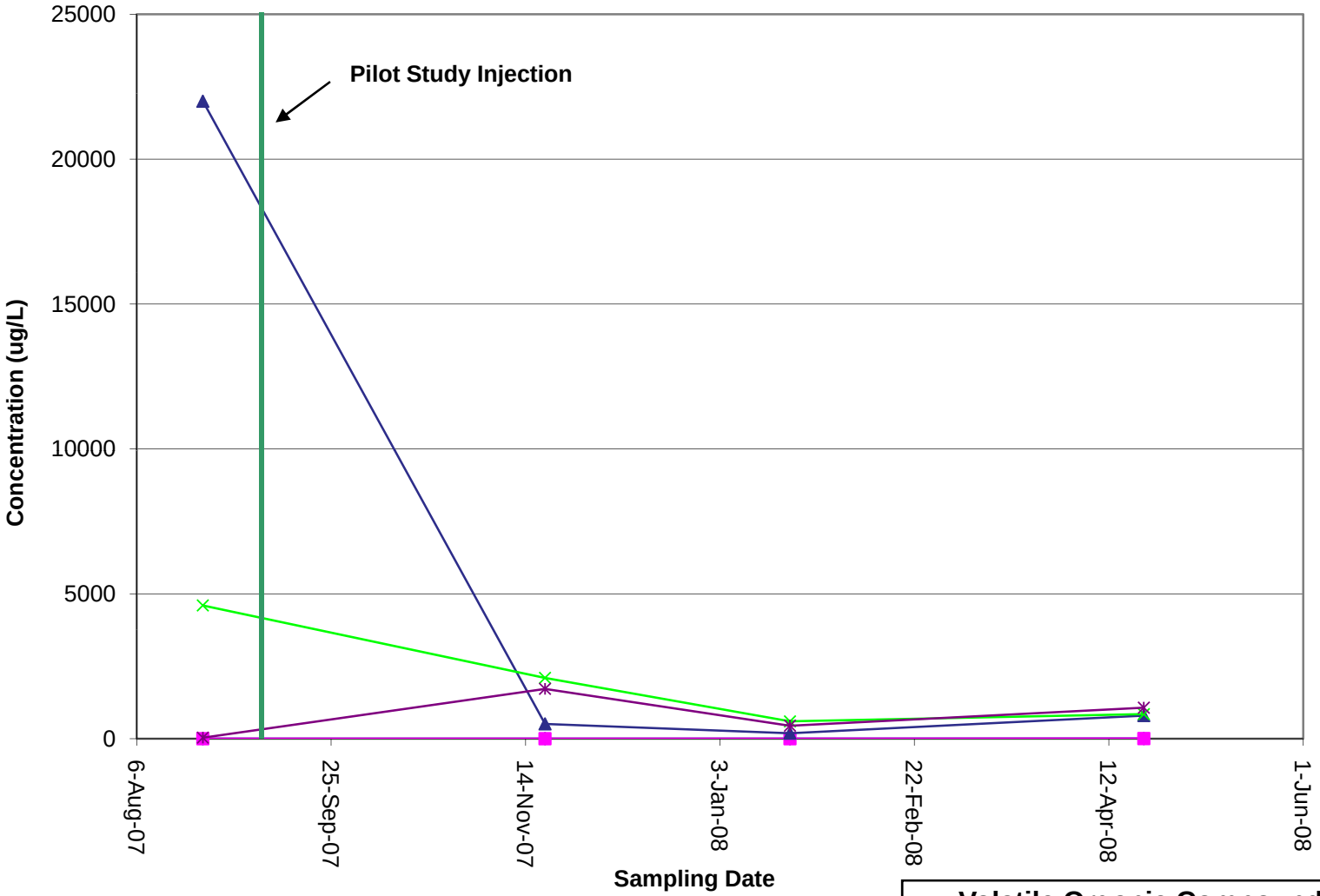
Figure 5



Volatile Organic Compounds Detected In Monitor Well B131-MW6

2701 North Harbor Drive
San Diego, California

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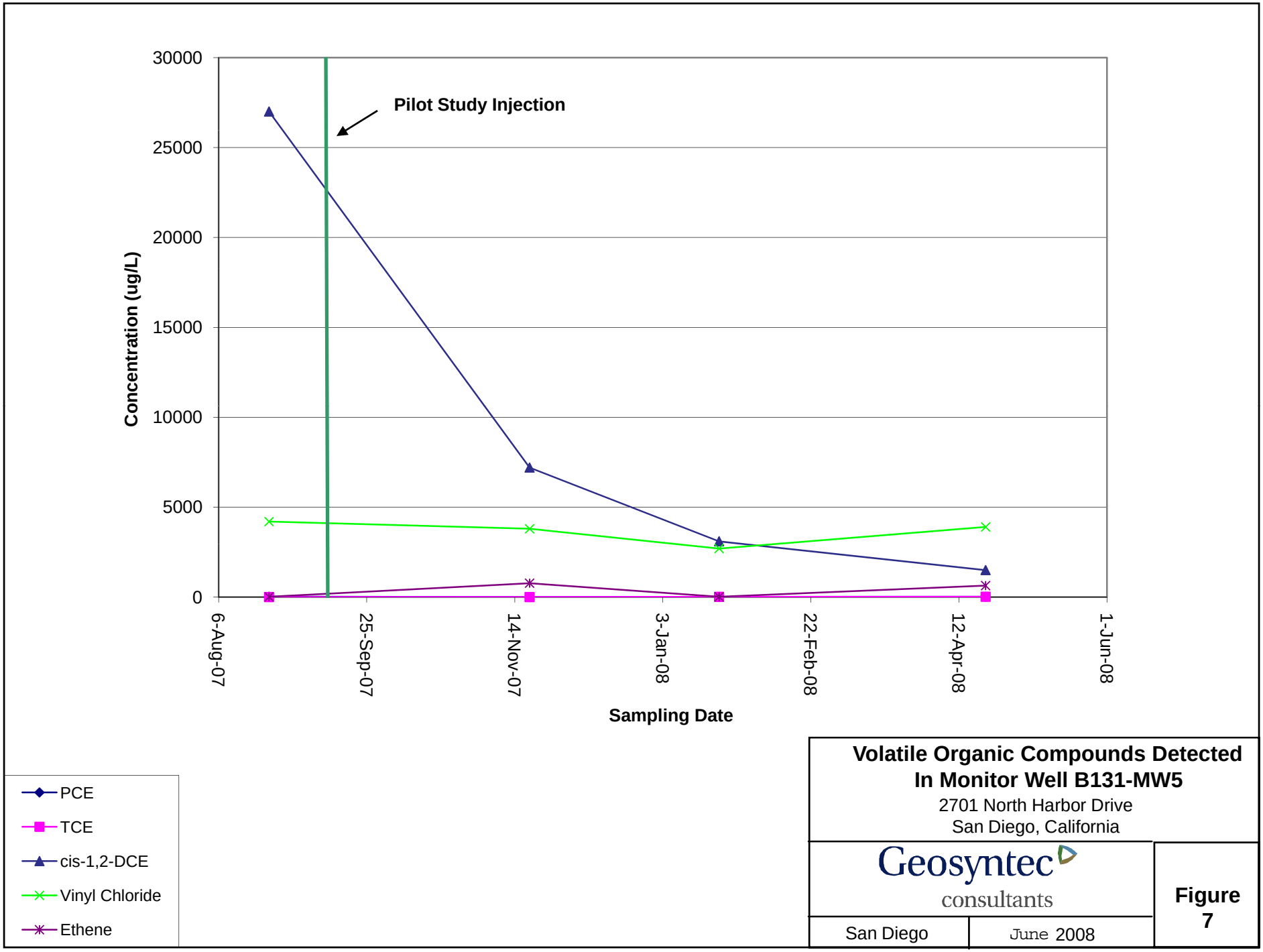
San Diego | June 2008

Figure 6



Volatile Organic Compounds Detected In Monitor Well B131-MW5

2701 North Harbor Drive
San Diego, California

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Figure 7

ATTACHMENT A

Radius of Influence Test Technical Memorandum

Geosyntec consultants

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Technical Memorandum

Date: 15 August 2007

To: Tom Alo, Regional Water Quality Control Board

Copies to: John Anderson, Regional Water Quality Control Board
Edgard Bertaut, TDY Industries
Bill Hays, San Diego Unified Port District
Paul Manasjan, San Diego County Regional Airport Authority
Ben Chandler, H&A

From: Brian Hitchens, P.G., C.Hg., Geosyntec Consultants
Jim Cox, Geosyntec Consultants

Subject: **Results of Injection Test**
Airport / Former TRA Site
2701 N. Harbor Drive
San Diego, California

INTRODUCTION

Geosyntec Consultants (Geosyntec) performed an injection test in Area of Concern (AOC) Building 131/242 at the Airport / Former TRA site in San Diego, California (Site). The injection test was performed to evaluate design parameters for implementation of enhanced in-situ bioremediation (EISB). The design parameters assumptions were:

- An initial 5-foot radius of influence (ROI) could be achieved by injecting 1,310 gallons of 1% emulsified vegetable oil (EVO) solution (volume of EVO per volume of solution);
- An injection rate of fifteen gallons per minute (gpm) could be achieved with an injection pressure of 15 psig.

SCOPE

Two injection probes (IP-1 and IP-2) and four piezometers (P1, P2, P3, and P4) were installed using direct push technology (Figure 1). The injection probes were perforated from 7 to 15 feet below ground surface (bgs). The piezometers were also screened over the same interval. The injection probes were spaced fourteen feet apart (Figure 1). Piezometers P1, P2, P3, and P4 were placed in a line, directly between the probes, at distances from IP-1of 2.5, 5.0, 7.5, and 10.0 feet, respectively. This spacing correlates to distances from IP-2 of 4.0, 6.5, 9.0, and 11.5 feet for piezometers P4, P3, P2, and P1, respectively.

Each piezometer was equipped with a data logging pressure transducer capable of recording the groundwater level and specific conductivity throughout the duration of the injection test. The groundwater level data were used to evaluate the lateral hydraulic influence of the injection. The specific conductivity data were used to evaluate the initial ROI of the injectant. Because the oil emulsion solution consisted of 99% municipal water, which contains fewer ions than the groundwater at the Site, a decrease in conductivity was interpreted as indicative of the presence of the injectant.

The piezometers were installed the day before the injection test. Water samples were collected from each piezometer and analyzed for baseline total organic carbon (TOC) concentrations (Attachment 1). Water levels were monitored overnight to evaluate the influence of tidal cycles on water table elevations prior to commencing the injection test. The observed changes in elevation due to tidal influence were less than a one-half inch and thus considered negligible.

Two separate injection tests were performed (Test 1 and Test 2). Baseline conditions were recorded prior to commencing Test 1. For Test 1, the target volume of 1,310 gallons was injected into IP-1 at a constant pressure (Table 1). The injection rate was observed and recorded while the injection pressure was maintained at 15 pounds per square inch (psi). Water level and specific conductivity data were logged by the transducers. After the target volume was injected, the transducers monitored the decay in groundwater levels in the piezometers until levels returned to within approximately 0.5 feet of the baseline water level (Figure 2).

For Test 2, the target volume of 1,310 gallons of EVO solution was injected into IP-2 at a starting flow rate of 15 gpm, which increased to over 19 gpm by the end of the test (Table 1). Injection pressures were observed and recorded throughout the test (Figure 3).

Post-injection groundwater samples were collected from each piezometer and analyzed for TOC concentrations to evaluate initial distribution of the injected EVO solution (Table 2).

RESULTS AND DISCUSSION

Radius of Influence

For both tests, measurable hydraulic influence was observed in the farthest piezometer from the injection well, corresponding to a minimum hydraulic ROI of 11.5 feet. The water level data indicate both the increasing responses during the start of the test and decreasing responses after the end of the test occurred proportionally and nearly simultaneously in all four piezometers (Figures 2 and 3).

For Test 1, a significant change in conductivity was observed in piezometer P1 (Figure 4). The initial conductivity in P-1 was approximately 2,200 microsiemens per centimeter (µS/cm) and the final conductivity was approximately 1,200 µS/cm. This change of approximately 1,000 µS/cm represents approximately a 45% drop in conductivity. For Test 2, a significant change in conductivity was observed in piezometer P4 (Figure 5). The initial conductivity in P-4 was approximately 2,500 µS/cm and the final conductivity was approximately 2,000 µS/cm. This change of approximately 500 µS/cm represents approximately a 20% drop in conductivity. Conductivity did not significantly decrease to below background levels in piezometers located at 5 feet or more from the closest injection point during the period conductivity was recorded. Based on these data, the initial ROI of the EVO solution achieved was between 4 and 5 feet.

The average baseline TOC concentration was 8.7 mg/L. The post-injection TOC concentrations in piezometers P1, P2, P3, and P4 were 300 milligrams per liter (mg/L), 6.8 mg/L, 10 mg/L, and 67 mg/L, respectively. Based on these data, 35-fold concentration increase (above background) was observed at 2.5 feet from IP-1 and an 8-fold increase was observed at 4 feet from IP-2. TOC concentrations were comparable to background levels in piezometers located 5 feet or more from the closest injection point. The post-injection TOC analytical results support the observed conductivity data that the initial ROI of the EVO solution is between 4 and 5 feet.

Pumping Rate and Pressure

For Test 1, the average injection rate that was achieved while the pressure was maintained at approximately 15 psi was approximately 11 gpm. For Test 2, the flow rate started at 15 gpm, and increased to nearly 20 gpm by the end of the test. The increasing flow rate throughout Test 2 did not directly correlate with the injection pressure, which was observed to fluctuate between 20 and 30 psi. However, these data indicate that up to 20 gpm of EVO solution could be injected at pressures less than 30 psi. No breakthrough of EVO solution to ground surface was observed during either test.

CONCLUSIONS AND RECOMMENDATIONS

Although the injection rate of 15 gpm was not achieved at the anticipated injection pressure of 15 psi, flow rates of 15 gpm or higher were demonstrated to be achievable utilizing higher pressures without breakthrough of EVO solution to ground surface. According to the data, an injection pressure of 30 psi may be utilized without surface breakthrough. Associated higher injection rates should not affect performance of the EISB program.

Based on the combined results of conductivity monitoring for Test 1 and Test 2, the initial ROI of the injected solution was between 4 and 5 feet. Although this ROI is expected to increase over time due to dispersion and diffusion associated with adjacent injections and subsidence of induced groundwater level increases, a design modification is recommended to achieve the target ROI of 5 feet. Because the actual ROI achieved was approximately 4.5 feet, 310 additional gallons would be required to achieve the recommended initial ROI of 5 feet. Therefore, it is recommended that injection of the initial 1,310 gallons of EVO solution be followed by injection of 310 gallons of unamended (no EVO) municipal water to achieve the 5-foot ROI. Based on observed TOC results, concentrations of the injected TOC are highest closest to the injection point and decrease with radial distance. After the injection of the 310 gallons of unamended water, a zone of lower but adequate concentration EVO solution will result from the dispersion of the concentrated EVO solution left in close proximity to the injection point after injection of the 1,310 gallons of EVO solution.

* * * * *

TABLES

Geosyntec consultants

Table 1
Injection Pressures and Pumping Rates

Time	Pumping Rate (gpm)	Pumping Pressure (psi)
Test 1		
9:25	10.2	15
9:27	12.2	16
9:35	11.3	15
9:40	11.3	15
9:45	11.3	15
10:06	11.2	15
Test 2		
15:58	15.0	30
16:18	16.0	25
16:26	16.6	23
16:45	16.8	20
16:57	17.1	21
16:58	19.0	25
17:00	19.6	27

gpm-gallons per minute

psi- pounds per square inch

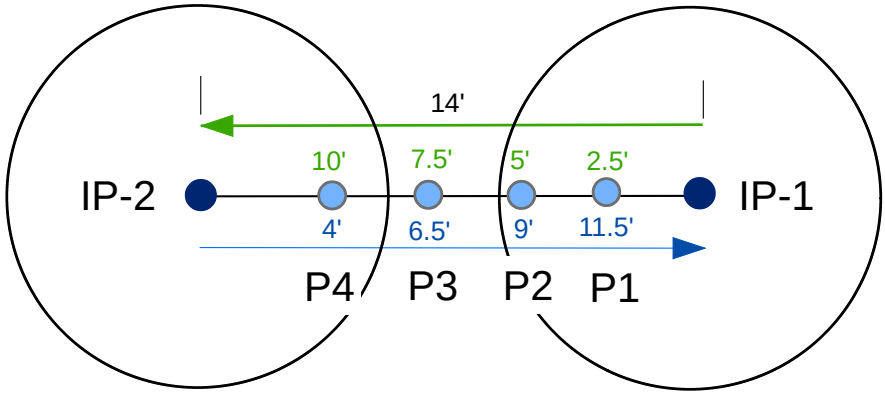
Geosyntec consultants

Table 2
Total Organic Carbon Concentrations in Water Samples

Piezometer	Radius (feet from closest injection point)	Baseline TOC concentration (mg/L)	Post-Injection TOC concentration (mg/L)
P1	2.5	7.3	300
P4	4	7.9	67
P2	5	8.5	6.8
P3	7.5	11	10
	Average =	8.7	

TOC - total organic carbon
mg/L - milligrams per liter

Figures



Injection Test Layout

2701 North Harbor Drive
San Diego, California

Legend

- Piezometer
- Injection Point

Geosyntec consultants

San Diego | August 2007

Figure 1

Figure 2
Water Level Response - Test 1

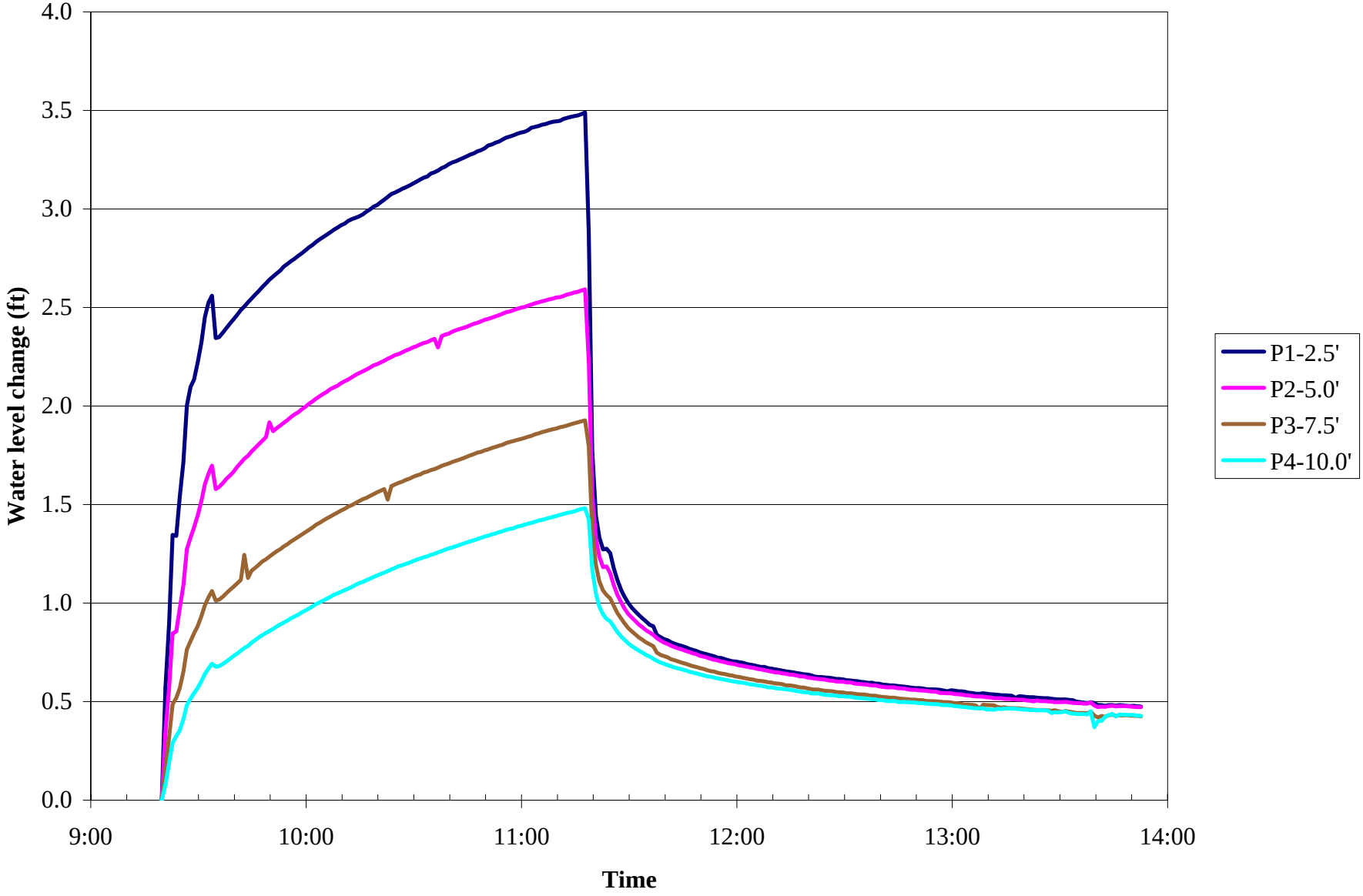


Figure 3
Water Level Response - Test 2

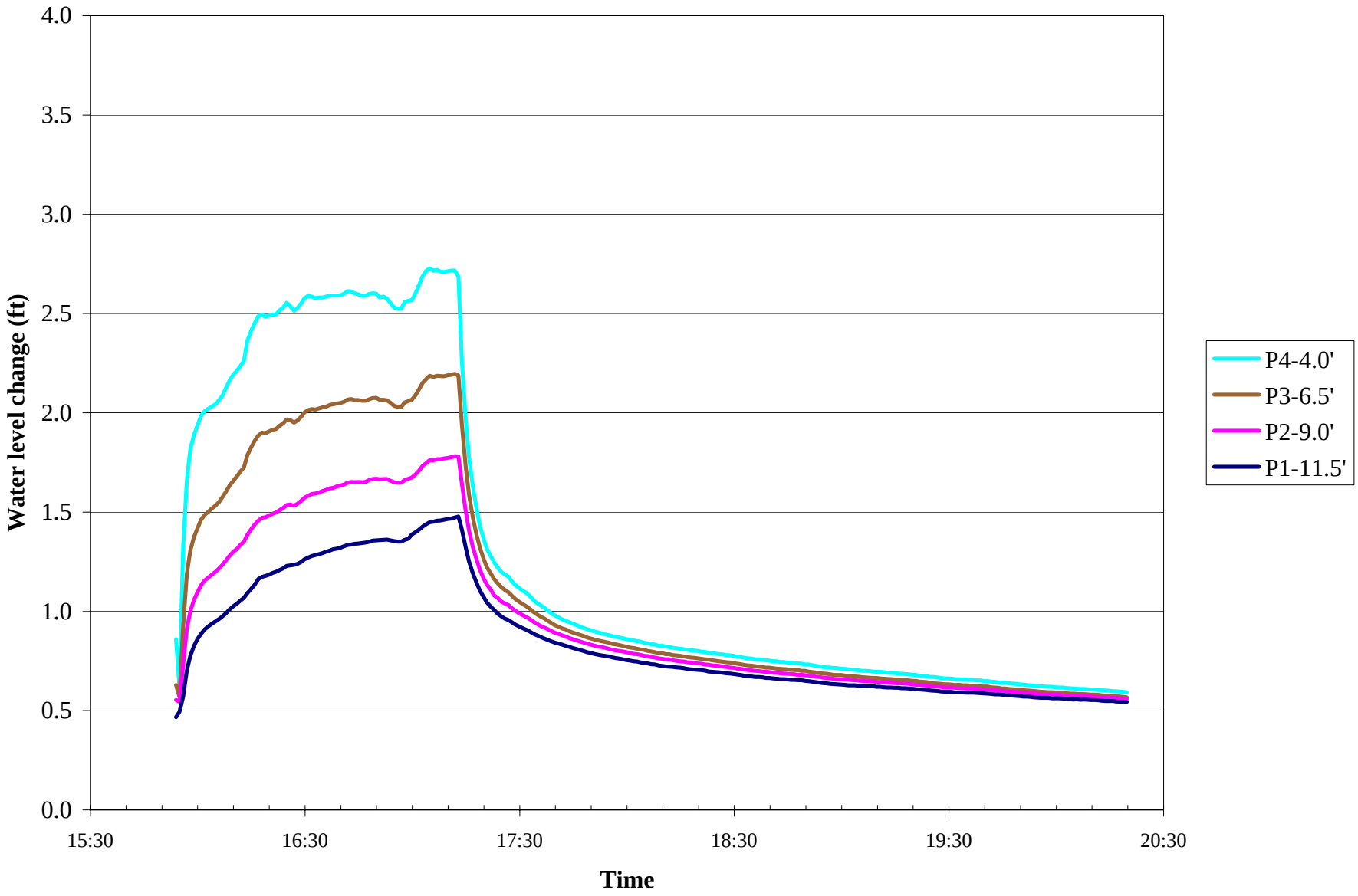


Figure 4
Specific Conductivity - Test 1

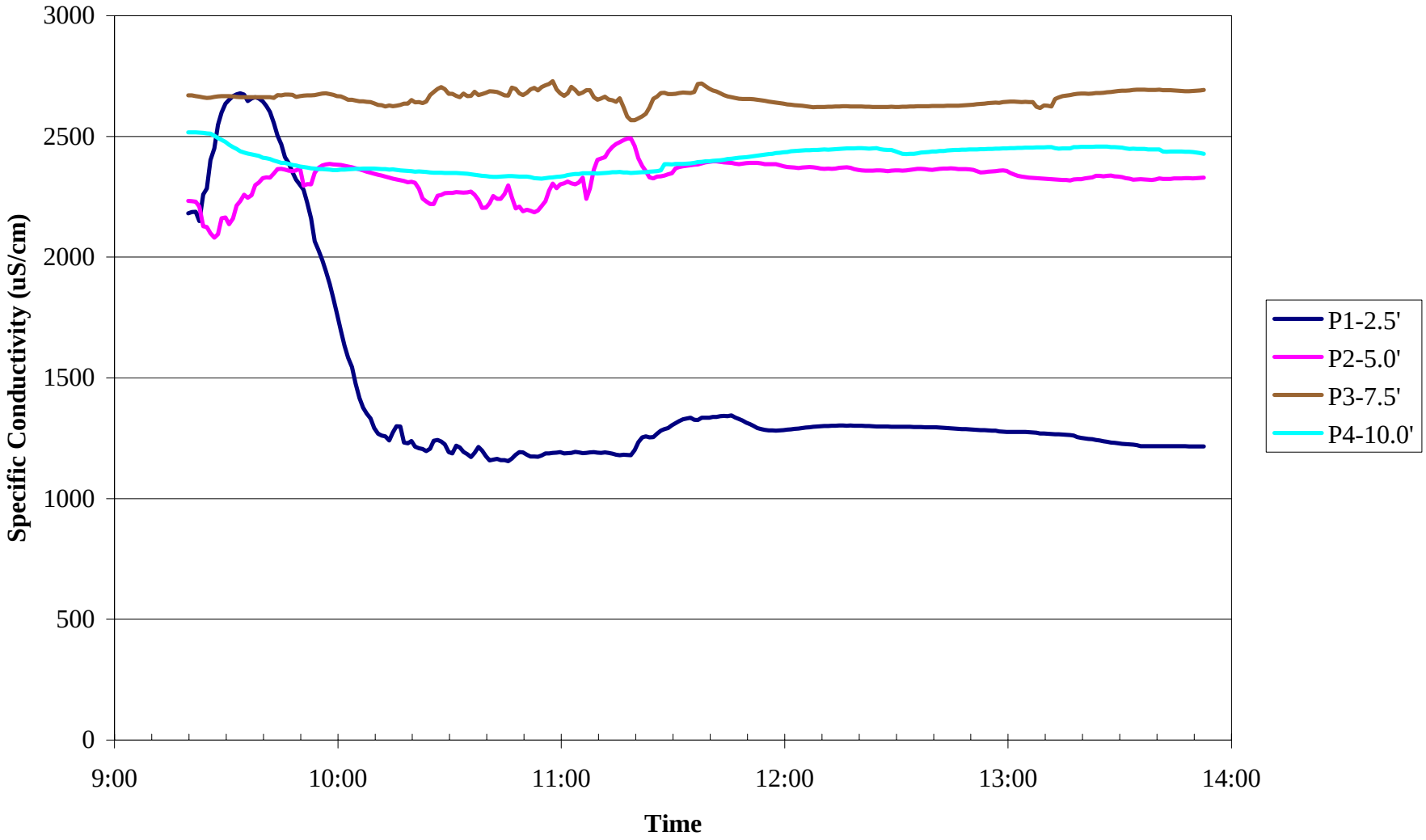
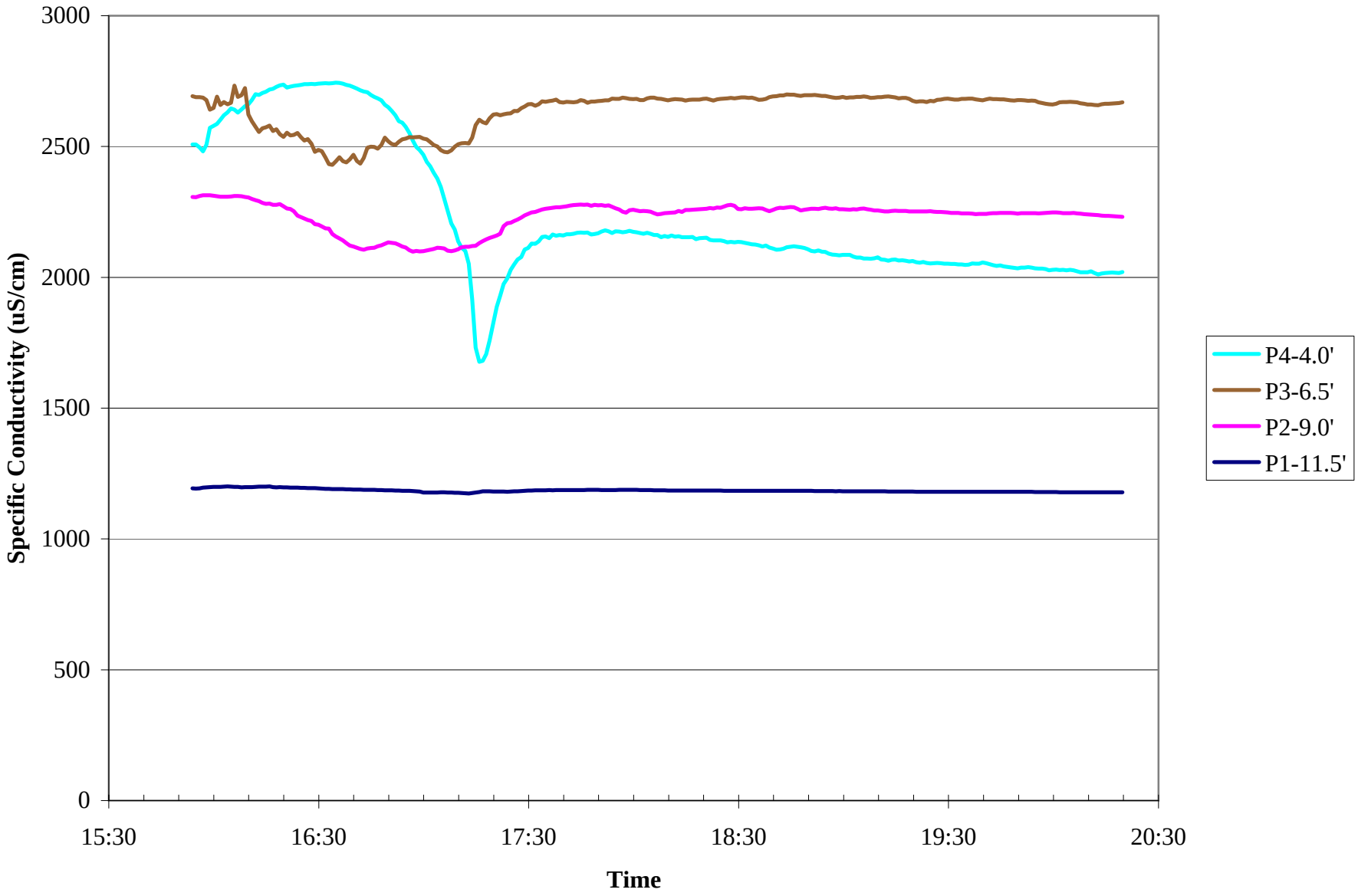


Figure 5
Specific Conductivity - Test 2



ATTACHMENT B

Pilot Study Analytical Reports

Calscience
Environmental
Laboratories, Inc.

August 02, 2007

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: Calscience Work Order No.: 07-07-1934
Client Reference: TDY /SC0445

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/27/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/27/07
Work Order No: 07-07-1934

Project: TDY /SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix
P-1	07-07-1934-1	07/27/07	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	300	10	20		mg/L	N/A	07/30/07	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
P-2	07-07-1934-2	07/27/07	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	6.8	0.50	1		mg/L	N/A	07/30/07	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
P-3	07-07-1934-3	07/27/07	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	10	0.50	1		mg/L	N/A	07/30/07	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
P-4	07-07-1934-4	07/27/07	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	67	5.0	10		mg/L	N/A	07/30/07	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
EVO-H2O	07-07-1934-5	07/27/07	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	70000	2500	5000		mg/L	N/A	07/30/07	SM 5310 D

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/27/07
Work Order No: 07-07-1934

Project: TDY /SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	07/30/07	SM 5310 D

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-07-1934

Project: TDY/SC0445

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS % REC	MSD % REC	% REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	SM 5310 D	P-2	07/30/07	N/A	95	91	70-130	2	0-25	

RPD - Relative Percent Difference, CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-07-1934

Project: TDY /SC0445

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Carbon, Total Organic	SM 5310 D	099-05-097-2,690	07/30/07	N/A	5.00	4.77	95	80-120	

RPD - Relative Percent Difference, CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-07-1934

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Document Number: ~~2128~~ 1934

Analysis Request and Chain of Custody Record

Page 1 of 1

White copy: to accompany samples

Yellow copy: field copy

Project Name: TDY	Project Number: SC0445
Samplers Names: PS, CL	Project Contact: Brian Hitchens
Laboratory Name: Calscience	Lab Contact: Steve Nowak
Lab Address:	Lab Phone:
	Carrier/Waybill No.

Required Analyses

VOCs by ____	Metals	SVOCs by 8270	TAL						

Bottle Type and Volume/Preservative

			250 H_2O						

Number of Containers

Sample Name	Date	Time	Sample Type											Comments	Lab Use Only: Condition of Bottles
P-1	7-27-07	8:00	H_2O				X								
P-2	"	9:07	H_2O				X								
P-3	"	9:18	H_2O				X								
P-4	"	9:25	H_2O				X								
EVO-H2O	"	7:56	H_2O				X								

Special Instructions:

Turn-around Time:

☐ Normal ☐ Rush: ____

1. Relinquished by (Signiture/Affiliation)	Date 7/27/07 Time 1520	1. Received by (Signiture/Affiliation) CEL	Date 7-27-7 Time 1320
2. Relinquished by (Signiture/Affiliation)	Date 7-27-7 Time 1750	2. Received by (Signiture/Affiliation)	Date 7-27-7 Time 1950
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

Geosyntec consultants
10875 Rancho Bernardo Road, Suite 200, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 07-1934

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Geosyntec **DATE:** 7/29/17

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- _____ Chilled, cooler with temperature blank provided.
- _____ Chilled, cooler without temperature blank.
- ✓ Chilled and placed in cooler with wet ice.
- _____ Ambient and placed in cooler with wet ice.
- _____ Ambient temperature.

3.5 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- _____ °C Temperature blank.
- _____ °C IR thermometer.
- _____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Calscience
Environmental
Laboratories, Inc.

July 30, 2007

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: Calscience Work Order No.: 07-07-1824
Client Reference: TDY /SC0445

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/26/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/26/07
Work Order No: 07-07-1824

Project: TDY /SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix
P-1	07-07-1824-1	07/25/07	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	7.3	2.5	5		mg/L	N/A	07/26/07	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
P-2	07-07-1824-2	07/25/07	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	8.5	0.50	1		mg/L	N/A	07/26/07	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
P-3	07-07-1824-3	07/25/07	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	11	0.50	1		mg/L	N/A	07/26/07	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
P-4	07-07-1824-4	07/25/07	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	7.9	0.50	1		mg/L	N/A	07/26/07	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	07/26/07	SM 5310 D

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-07-1824

Project: TDY/SC0445

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS % REC	MSD % REC	% REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	SM 5310 D	07-07-1830-3	07/26/07	N/A	74	74	70-130	0	0-25	

RPD - Relative Percent Difference, CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-07-1824

Project: TDY /SC0445

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS % Rec	% Rec CL	Qualifiers
Carbon, Total Organic	SM 5310 D	099-05-097-2,685	07/26/07	N/A	5.00	4.85	97	80-120	

RPD - Relative Percent Difference, CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-07-1824

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Document Number: 2127

Analysis Request and Chain of Custody Record

1824

Page 1 of 1

Project Name: TDY	Project Number: SC0445	
Samplers Names: Chris Lieder	Project Contact: Brian Hitchens	
Labpratory Name: Cal Science	Lab Contact: Steve Nowak	
Lab Address: 7440 Lincoln Way Garden Grove CA 92841	Lab Phone:	
	Carrier/Waybill No.	

White copy: to accompany samples

Yellow copy: field copy

Sample Name	Date	Time	Sample Type	VOCs by ____	Metals	SVOCs by 8270	TOC						Comments	Lab Use Only: Condition of Bottles
				Bottle Type and Volume/Preservative			250 H2SO4							
				Number of Containers										
P-1	7-25-07	11:44	H_2O				1							
P-2	"	11:54	H_2O				1							
P-3	"	12:02	H_2O				1							
P-4	"	12:20	H_2O				1							

Special Instructions:

Turn-around Time:

☐ Normal ☒ Rush: 48 HR

1. Relinquished by (Signiture/Affiliation)	Date 7-26-07 Time 12:52	1. Received by (Signiture/Affiliation) CEL	Date 7/26/07 Time 1252
2. Relinquished by (Signiture/Affiliation)	Date 7-26-7 Time 1655	2. Received by (Signiture/Affiliation)	Date 7-26-7 Time 1655
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

Geosyntec consultants 10875 Rancho Bernardo Road, Suite 200, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 07-1824

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Geosyntec **DATE:** 7/26/7

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- _____ Chilled, cooler with temperature blank provided.
- _____ Chilled, cooler without temperature blank.
- ✓ Chilled and placed in cooler with wet ice.
- _____ Ambient and placed in cooler with wet ice.
- _____ Ambient temperature.
- 3.5 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- _____ °C Temperature blank.
- _____ °C IR thermometer.
- _____ Ambient temperature.

Initial: MM

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: MM

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: MM

COMMENTS:

ATTACHMENT B

Pilot Study Analytical Reports

Calscience Environmental Laboratories, Inc.

September 06, 2007

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 07-08-1696**
Client Reference: TDY / SC0307

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/23/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	08/23/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-08-1696
San Diego, CA 92127-2116		Preparation:	N/A
		Method:	RSK-175M
		Units:	ug/L
Project: TDY / SC0307			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
BLD131-MW6	**07-08-1696-1**	**08/23/07**	**Aqueous**	**GC 33**	**N/A**	**08/24/07**	**070824L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	262	4.00	4		Methane	5270	80.0	80	
Ethylene	36.2	1.00	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
BLD131-MW2	**07-08-1696-2**	**08/23/07**	**Aqueous**	**GC 33**	**N/A**	**08/24/07**	**070824L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	16.3	1.00	1		Methane	395	4.00	4	
Ethylene	13.1	1.00	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
BLD131-MW5	**07-08-1696-3**	**08/23/07**	**Aqueous**	**GC 33**	**N/A**	**08/24/07**	**070824L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	154	4.00	4		Methane	4420	80.0	80	
Ethylene	19.6	1.00	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-010-1,854**	**N/A**	**Aqueous**	**GC 33**	**N/A**	**08/24/07**	**070824L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	08/23/07
10875 Rancho Bernardo Road, Suite 200	Work Order No:	07-08-1696
San Diego, CA 92127-2116	Preparation:	N/A
	Method:	HPLC/UV
	Units:	mg/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
BLD131-MW6	**07-08-1696-1**	**08/23/07**	**Aqueous**	**HPLC 6**	**09/04/07**	**09/04/07**	**070904L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Lactic Acid	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	80	80-120	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
BLD131-MW2	**07-08-1696-2**	**08/23/07**	**Aqueous**	**HPLC 6**	**09/04/07**	**09/04/07**	**070904L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Lactic Acid	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	90	80-120	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
BLD131-MW5	**07-08-1696-3**	**08/23/07**	**Aqueous**	**HPLC 6**	**09/04/07**	**09/04/07**	**070904L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Lactic Acid	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	90	80-120	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-016-128**	**N/A**	**Aqueous**	**HPLC 6**	**09/04/07**	**09/04/07**	**070904L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Lactic Acid	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	90	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 08/23/07
Work Order No: 07-08-1696
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
BLD131-MW6	**07-08-1696-1**	**08/23/07**	**Aqueous**	**GC/MS BB**	**08/27/07**	**08/27/07**	**070827L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	28	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	4.3	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	1.7	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	1.4	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	9.0	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	1.0	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	27	1.0	1		Vinyl Chloride	4600	100	200	
c-1,2-Dichloroethene	22000	200	200		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	240	200	200		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	98	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	08/23/07
10875 Rancho Bernardo Road, Suite 200	Work Order No:	07-08-1696
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
BLD131-MW2	**07-08-1696-2**	**08/23/07**	**Aqueous**	**GC/MS BB**	**08/27/07**	**08/27/07**	**070827L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	1.1	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	28000	500	500	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	3.8	1.0	1		Trichloroethene	5300	500	500	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	15	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	6.6	1.0	1		Vinyl Chloride	340	250	500	
c-1,2-Dichloroethene	3200	500	500		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	16	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	74-140		1,2-Dichloroethane-d4	106	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	95	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	08/23/07
10875 Rancho Bernardo Road, Suite 200	Work Order No:	07-08-1696
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
BLD131-MW5	**07-08-1696-3**	**08/23/07**	**Aqueous**	**GC/MS BB**	**08/27/07**	**08/27/07**	**070827L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	9.4	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	24	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	2.1	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	4.9	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	58	1.0	1		Vinyl Chloride	4200	100	200	
c-1,2-Dichloroethene	27000	200	200		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	210	200	200		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	74-140		1,2-Dichloroethane-d4	106	74-146	
Toluene-d8	103	88-112		1,4-Bromofluorobenzene	98	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 08/23/07
Work Order No: 07-08-1696
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-22,582**	**N/A**	**Aqueous**	**GC/MS BB**	**08/27/07**	**08/27/07**	**070827L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	74-140			1,2-Dichloroethane-d4	99	74-146		
Toluene-d8	101	88-112			1,4-Bromofluorobenzene	98	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	08/23/07
10875 Rancho Bernardo Road, Suite 200	Work Order No:	07-08-1696
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-22,595**	**N/A**	**Aqueous**	**GC/MS O**	**08/28/07**	**08/28/07**	**070828L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	74-140			1,2-Dichloroethane-d4	105	74-146		
Toluene-d8	98	88-112			1,4-Bromofluorobenzene	100	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	08/23/07
10875 Rancho Bernardo Road, Suite 200	Work Order No:	07-08-1696
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307 Page 6 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-22,621**	**N/A**	**Aqueous**	**GC/MS O**	**08/30/07**	**08/30/07**	**070830L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	96	74-140			1,2-Dichloroethane-d4	90	74-146		
Toluene-d8	96	88-112			1,4-Bromofluorobenzene	101	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 08/23/07
Work Order No: 07-08-1696

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD131-MW6	**07-08-1696-1**	**08/23/07**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	1000	200	200		mg/L	N/A	08/24/07	EPA 300.0
Nitrite (as N)	ND	0.20	2		mg/L	N/A	08/24/07	EPA 300.0
Nitrate (as N)	ND	0.20	2		mg/L	N/A	08/24/07	EPA 300.0
Sulfate	400	100	100		mg/L	N/A	08/24/07	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	N/A	08/24/07	SM 4500 S2 - D
Carbon, Total Organic	7.6	0.50	1		mg/L	N/A	08/24/07	SM 5310 D

BLD131-MW2	**07-08-1696-2**	**08/23/07**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	490	100	100		mg/L	N/A	08/24/07	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	08/24/07	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	08/24/07	EPA 300.0
Sulfate	300	50	50		mg/L	N/A	08/24/07	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	N/A	08/24/07	SM 4500 S2 - D
Carbon, Total Organic	5.7	0.50	1		mg/L	N/A	08/24/07	SM 5310 D

BLD131-MW5	**07-08-1696-3**	**08/23/07**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	690	100	100		mg/L	N/A	08/24/07	EPA 300.0
Nitrite (as N)	ND	0.20	2		mg/L	N/A	08/24/07	EPA 300.0
Nitrate (as N)	ND	0.20	2		mg/L	N/A	08/24/07	EPA 300.0
Sulfate	580	100	100		mg/L	N/A	08/24/07	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	N/A	08/24/07	SM 4500 S2 - D
Carbon, Total Organic	9.7	0.50	1		mg/L	N/A	08/24/07	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 08/23/07
Work Order No: 07-08-1696

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	08/24/07	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	08/24/07	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	08/24/07	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	08/24/07	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	N/A	08/24/07	SM 4500 S2 - D
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	08/24/07	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 08/23/07
Work Order No: 07-08-1696
Preparation: N/A
Method: HPLC/UV

Project TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD131-MW6	**Aqueous**	**HPLC 6**	**09/04/07**	**09/04/07**	**070904S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	120	125	70-130	4	0-30	
Butyric Acid	100	95	70-130	5	0-30	
Lactic Acid	105	110	70-130	5	0-30	
Propionic Acid	80	80	70-130	0	0-30	
Pyruvic Acid	100	100	70-130	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 08/23/07
Work Order No: 07-08-1696
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1529-3	**Aqueous**	**GC/MS BB**	**08/27/07**	**08/27/07**	**070827S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	90	88-118	1	0-7	
Carbon Tetrachloride	80	82	67-145	2	0-11	
Chlorobenzene	90	90	88-118	1	0-7	
1,2-Dibromoethane	89	89	70-130	0	0-30	
1,2-Dichlorobenzene	91	91	86-116	0	0-8	
1,1-Dichloroethene	100	100	70-130	0	0-25	
Ethylbenzene	88	87	70-130	1	0-30	
Toluene	90	91	87-123	1	0-8	
Trichloroethene	87	87	79-127	0	0-10	
Vinyl Chloride	100	101	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	93	90	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	79	72	36-168	9	0-45	
Diisopropyl Ether (DIPE)	94	94	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	95	97	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	94	95	72-126	0	0-12	
Ethanol	88	90	53-149	3	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 08/23/07
Work Order No: 07-08-1696
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1362-1	**Aqueous**	**GC/MS O**	**08/28/07**	**08/28/07**	**070828S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	101	88-118	1	0-7	
Carbon Tetrachloride	109	110	67-145	1	0-11	
Chlorobenzene	106	106	88-118	0	0-7	
1,2-Dibromoethane	111	113	70-130	2	0-30	
1,2-Dichlorobenzene	107	107	86-116	0	0-8	
1,1-Dichloroethene	113	113	70-130	0	0-25	
Ethylbenzene	112	112	70-130	0	0-30	
Toluene	106	106	87-123	0	0-8	
Trichloroethene	106	105	79-127	0	0-10	
Vinyl Chloride	106	107	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	100	101	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	109	120	36-168	10	0-45	
Diisopropyl Ether (DIPE)	99	98	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	98	97	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	100	72-126	0	0-12	
Ethanol	90	94	53-149	3	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 08/23/07
Work Order No: 07-08-1696
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1803-3	**Aqueous**	**GC/MS O**	**08/30/07**	**08/30/07**	**070830S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	101	88-118	1	0-7	
Carbon Tetrachloride	101	100	67-145	2	0-11	
Chlorobenzene	106	107	88-118	1	0-7	
1,2-Dibromoethane	117	119	70-130	2	0-30	
1,2-Dichlorobenzene	106	108	86-116	2	0-8	
1,1-Dichloroethene	90	89	70-130	1	0-25	
Ethylbenzene	110	111	70-130	1	0-30	
Toluene	102	105	87-123	3	0-8	
Trichloroethene	103	104	79-127	1	0-10	
Vinyl Chloride	81	82	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	91	96	71-131	6	0-13	
Tert-Butyl Alcohol (TBA)	109	122	36-168	11	0-45	
Diisopropyl Ether (DIPE)	91	89	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	87	89	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	103	72-126	6	0-12	
Ethanol	90	97	53-149	7	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-08-1696

Project: TDY / SC0307

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	EPA 300.0	07-08-1714-1	08/24/07	N/A	97	98	56-134	1	0-3	
Nitrite (as N)	EPA 300.0	07-08-1714-1	08/24/07	N/A	95	95	68-122	0	0-8	
Nitrate (as N)	EPA 300.0	07-08-1714-1	08/24/07	N/A	94	98	58-142	5	0-6	
Sulfate	EPA 300.0	07-08-1714-1	08/24/07	N/A	108	108	49-133	0	0-3	
Carbon, Total Organic	SM 5310 D	07-08-1653-3	08/24/07	N/A	95	97	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-08-1696

Project: TDY / SC0307

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Sulfide, Total	SM 4500 S2 - D	07-08-1606-1	08/24/07	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-08-1696
Preparation: N/A
Method: RSK-175M

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-010-1,854	**Aqueous**	**GC 33**	**N/A**	**08/24/07**	**070824L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	95	96	80-120	1	0-20	
Methane	96	97	79-109	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-08-1696
Preparation: N/A
Method: HPLC/UV

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-128	**Aqueous**	**HPLC 6**	**09/04/07**	**09/04/07**	**070904L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	110	110	80-120	0	0-20	
Butyric Acid	85	85	80-120	0	0-20	
Lactic Acid	95	95	80-120	0	0-20	
Propionic Acid	90	90	80-120	0	0-20	
Pyruvic Acid	100	100	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-08-1696
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-22,582	**Aqueous**	**GC/MS BB**	**08/27/07**	**08/27/07**	**070827L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	98	84-120	2	0-8	
Carbon Tetrachloride	97	99	63-147	3	0-10	
Chlorobenzene	97	99	89-119	2	0-7	
1,2-Dibromoethane	91	92	80-120	2	0-20	
1,2-Dichlorobenzene	93	96	89-119	3	0-9	
1,1-Dichloroethene	104	111	77-125	7	0-16	
Ethylbenzene	96	99	80-120	3	0-20	
Toluene	97	99	83-125	1	0-9	
Trichloroethene	96	98	89-119	2	0-8	
Vinyl Chloride	107	110	63-135	3	0-13	
Methyl-t-Butyl Ether (MTBE)	86	88	82-118	2	0-13	
Tert-Butyl Alcohol (TBA)	74	76	46-154	3	0-32	
Diisopropyl Ether (DIPE)	93	97	81-123	4	0-11	
Ethyl-t-Butyl Ether (ETBE)	93	96	74-122	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	93	93	76-124	0	0-10	
Ethanol	101	102	60-138	1	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-08-1696
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-22,595	**Aqueous**	**GC/MS O**	**08/28/07**	**08/28/07**	**070828L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	99	84-120	1	0-8	
Carbon Tetrachloride	110	109	63-147	1	0-10	
Chlorobenzene	104	104	89-119	0	0-7	
1,2-Dibromoethane	109	107	80-120	3	0-20	
1,2-Dichlorobenzene	106	104	89-119	2	0-9	
1,1-Dichloroethene	112	110	77-125	1	0-16	
Ethylbenzene	111	110	80-120	0	0-20	
Toluene	104	103	83-125	1	0-9	
Trichloroethene	105	103	89-119	2	0-8	
Vinyl Chloride	103	104	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	96	94	82-118	2	0-13	
Tert-Butyl Alcohol (TBA)	101	102	46-154	1	0-32	
Diisopropyl Ether (DIPE)	97	96	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	96	95	74-122	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	95	76-124	2	0-10	
Ethanol	89	77	60-138	14	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-08-1696
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-22,621	**Aqueous**	**GC/MS O**	**08/30/07**	**08/30/07**	**070830L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	99	84-120	1	0-8	
Carbon Tetrachloride	103	100	63-147	3	0-10	
Chlorobenzene	107	105	89-119	2	0-7	
1,2-Dibromoethane	113	109	80-120	4	0-20	
1,2-Dichlorobenzene	106	106	89-119	0	0-9	
1,1-Dichloroethene	93	90	77-125	3	0-16	
Ethylbenzene	110	110	80-120	0	0-20	
Toluene	102	103	83-125	1	0-9	
Trichloroethene	104	102	89-119	1	0-8	
Vinyl Chloride	82	82	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	91	90	82-118	2	0-13	
Tert-Butyl Alcohol (TBA)	103	103	46-154	1	0-32	
Diisopropyl Ether (DIPE)	90	88	81-123	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	89	87	74-122	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	97	76-124	0	0-10	
Ethanol	78	70	60-138	10	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-08-1696

Project: TDY / SC0307

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Chloride	EPA 300.0	099-05-118-4,081	08/24/07	N/A	4.00	3.99	100	81-111	
Nitrite (as N)	EPA 300.0	099-05-118-4,081	08/24/07	N/A	1.00	0.899	90	73-115	
Nitrate (as N)	EPA 300.0	099-05-118-4,081	08/24/07	N/A	2.00	1.86	93	87-111	
Sulfate	EPA 300.0	099-05-118-4,081	08/24/07	N/A	4.00	4.07	102	89-107	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-08-1696

Project: TDY / SC0307

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Carbon, Total Organic	SM 5310 D	099-05-097-2,712	08/24/07	N/A	5.00	4.77	95	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-08-1696

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Document Number: 2142

(16096)

Analysis Request and Chain of Custody Record

Page 1 of 1

White copy: to accompany samples

Yellow copy: field copy

Project Name: TPY	Project Number: 5C0307
Samplers Name: C R L	Project Contact: Brian Hathorne
Laboratory Name: Calscience	Lab Contact: Steve Nowak
Lab Address: 7440 Lincoln Garden grove CA	Lab Phone: 714 895-5494
	Carrier/Waybill No.

Required Analyses

VOCs by 8260B; Metals TCL SM5300; SVOCs by 8270; Extract Methane ethane RSK175M; Chloride 300.0 4500Cl; Nitrate 4500 NO3 EPA 300; Nitrite EPA 300.0 6054; Sulfate 300. 375.4; Sulfide 376.2; Organic Acid HPLC

Sample Name	Date	Time	Sample Type	Bottle Type and Volume/Preservative: Number of Containers	Comments	Lab Use Only: Condition of Bottles
BLD131-MW6	8/23/07	932	H_2O	3 VOA HCl; 1 250 H2SO4; 2 125 HCl; 1 125 4°C; 1 125 4°C; 1 125 4°C; 1 125 4°C; 1 250 NaOH 125; 1 250 H3PO4		
~~BLD-MW22~~	~~8/22/07~~	~~11:15~~	~~H_2O~~	~~3 1 2 1 1 1 1 1 1~~	CEL	
BLD131-MW2	8/23/07	11:15	H_2O	3 1 2 1 1 1 1 1 1	Date collected 8/23/07 CEL	
BLD131-MW5	8/23/07	13:15	H_2O	3 1 2 1 1 1 1 1 1		

Special Instructions:

Turn-around Time: ☐ Normal ☐ Rush: _____

1. Relinquished by (Signature/Affiliation)	Date 8/23/07 Time 14:00	1. Received by (Signature/Affiliation) CEL	Date 8-23-7 Time 1405
2. Relinquished by (Signature/Affiliation)	Date 8/23/7 Time 1720	2. Received by (Signature/Affiliation)	Date 8/23/7 Time 1720
3. Relinquished by (Signature/Affiliation)	Date Time	3. Received by (Signature/Affiliation)	Date Time

Geosyntec consultants
10875 Rancho Bernardo Road, Suite 200, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 08 - 1696

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Berryman DATE: 8/23/7

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
✓ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

3.7 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Calscience Environmental Laboratories, Inc.

November 29, 2007

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 07-11-1606**
Client Reference: TDY / SC0445

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/20/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
B131-MW2	**07-11-1606-1-G**	**11/19/07**	**Aqueous**	**GC 33**	**N/A**	**11/27/07**	**071127L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	94.6	8.00	8		Methane	7350	80.0	80	
Ethylene	1220	80.0	80						

B131-MW6	**07-11-1606-2-G**	**11/19/07**	**Aqueous**	**GC 33**	**N/A**	**11/27/07**	**071127L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	112	8.00	8		Methane	5590	80.0	80	
Ethylene	1720	80.0	80						

B131-MW5	**07-11-1606-3-G**	**11/19/07**	**Aqueous**	**GC 33**	**N/A**	**11/27/07**	**071127L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	191	8.00	8		Methane	7590	80.0	80	
Ethylene	774	80.0	80						

Method Blank	**099-12-010-1,940**	**N/A**	**Aqueous**	**GC 33**	**N/A**	**11/27/07**	**071127L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	11/20/07
10875 Rancho Bernardo Road, Suite 200		Work Order No:	07-11-1606
San Diego, CA 92127-2116		Preparation:	N/A
		Method:	HPLC/UV
		Units:	mg/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
B131-MW2	**07-11-1606-1-E**	**11/19/07**	**Aqueous**	**HPLC 6**	**11/27/07**	**11/27/07**	**071127L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	100	100		Propionic Acid	130	100	100	
Butyric Acid	ND	100	100		Pyruvic Acid	ND	50	100	
Lactic Acid	1000	100	100						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	94	80-120	

B131-MW6	**07-11-1606-2-E**	**11/19/07**	**Aqueous**	**HPLC 6**	**11/27/07**	**11/27/07**	**071127L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	50	50		Propionic Acid	ND	50	50	
Butyric Acid	ND	50	50		Pyruvic Acid	ND	25	50	
Lactic Acid	590	50	50						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	98	80-120	

B131-MW5	**07-11-1606-3-E**	**11/19/07**	**Aqueous**	**HPLC 6**	**11/27/07**	**11/27/07**	**071127L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	25	25		Propionic Acid	ND	25	25	
Butyric Acid	ND	25	25		Pyruvic Acid	ND	12	25	
Lactic Acid	310	25	25						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	90	80-120	

Method Blank	**099-12-016-134**	**N/A**	**Aqueous**	**HPLC 6**	**11/27/07**	**11/27/07**	**071127L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Butyric Acid	ND	1.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	91	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
B131-MW2	**07-11-1606-1-A**	**11/19/07**	**Aqueous**	**GC/MS JJ**	**11/24/07**	**11/25/07**	**071124L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	250	5		1,3-Dichloropropane	ND	5.0	5	
Benzene	ND	2.5	5		2,2-Dichloropropane	ND	5.0	5	
Bromobenzene	ND	5.0	5		1,1-Dichloropropene	ND	5.0	5	
Bromochloromethane	ND	5.0	5		c-1,3-Dichloropropene	ND	2.5	5	
Bromodichloromethane	ND	5.0	5		t-1,3-Dichloropropene	ND	2.5	5	
Bromoform	ND	5.0	5		Ethylbenzene	ND	5.0	5	
Bromomethane	ND	50	5		2-Hexanone	ND	50	5	
2-Butanone	ND	50	5		Isopropylbenzene	ND	5.0	5	
n-Butylbenzene	ND	5.0	5		p-Isopropyltoluene	ND	5.0	5	
sec-Butylbenzene	ND	5.0	5		Methylene Chloride	ND	50	5	
tert-Butylbenzene	ND	5.0	5		4-Methyl-2-Pentanone	ND	50	5	
Carbon Disulfide	ND	50	5		Naphthalene	ND	50	5	
Carbon Tetrachloride	ND	2.5	5		n-Propylbenzene	ND	5.0	5	
Chlorobenzene	ND	5.0	5		Styrene	ND	5.0	5	
Chloroethane	ND	5.0	5		1,1,1,2-Tetrachloroethane	ND	5.0	5	
Chloroform	ND	5.0	5		1,1,2,2-Tetrachloroethane	ND	5.0	5	
Chloromethane	ND	50	5		Tetrachloroethene	9.5	5.0	5	
2-Chlorotoluene	ND	5.0	5		Toluene	ND	5.0	5	
4-Chlorotoluene	ND	5.0	5		1,2,3-Trichlorobenzene	ND	5.0	5	
Dibromochloromethane	ND	5.0	5		1,2,4-Trichlorobenzene	ND	5.0	5	
1,2-Dibromo-3-Chloropropane	ND	25	5		1,1,1-Trichloroethane	ND	5.0	5	
1,2-Dibromoethane	ND	5.0	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5	
Dibromomethane	ND	5.0	5		1,1,2-Trichloroethane	ND	5.0	5	
1,2-Dichlorobenzene	ND	5.0	5		Trichloroethene	11	5.0	5	
1,3-Dichlorobenzene	ND	5.0	5		Trichlorofluoromethane	ND	50	5	
1,4-Dichlorobenzene	ND	5.0	5		1,2,3-Trichloropropane	ND	25	5	
Dichlorodifluoromethane	ND	5.0	5		1,2,4-Trimethylbenzene	ND	5.0	5	
1,1-Dichloroethane	ND	5.0	5		1,3,5-Trimethylbenzene	ND	5.0	5	
1,2-Dichloroethane	ND	2.5	5		Vinyl Acetate	ND	50	5	
1,1-Dichloroethene	ND	5.0	5		Vinyl Chloride	680	2.5	5	
c-1,2-Dichloroethene	1900	50	50		p/m-Xylene	ND	5.0	5	
t-1,2-Dichloroethene	21	5.0	5		o-Xylene	ND	5.0	5	
1,2-Dichloropropane	ND	5.0	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	5	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	74-140		1,2-Dichloroethane-d4	109	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	96	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
B131-MW6	**07-11-1606-2-A**	**11/19/07**	**Aqueous**	**GC/MS JJ**	**11/24/07**	**11/25/07**	**071124L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	250	5		1,3-Dichloropropane	ND	5.0	5	
Benzene	36	2.5	5		2,2-Dichloropropane	ND	5.0	5	
Bromobenzene	ND	5.0	5		1,1-Dichloropropene	ND	5.0	5	
Bromochloromethane	ND	5.0	5		c-1,3-Dichloropropene	ND	2.5	5	
Bromodichloromethane	ND	5.0	5		t-1,3-Dichloropropene	ND	2.5	5	
Bromoform	ND	5.0	5		Ethylbenzene	ND	5.0	5	
Bromomethane	ND	50	5		2-Hexanone	ND	50	5	
2-Butanone	ND	50	5		Isopropylbenzene	ND	5.0	5	
n-Butylbenzene	ND	5.0	5		p-Isopropyltoluene	ND	5.0	5	
sec-Butylbenzene	ND	5.0	5		Methylene Chloride	ND	50	5	
tert-Butylbenzene	ND	5.0	5		4-Methyl-2-Pentanone	ND	50	5	
Carbon Disulfide	ND	50	5		Naphthalene	ND	50	5	
Carbon Tetrachloride	ND	2.5	5		n-Propylbenzene	ND	5.0	5	
Chlorobenzene	ND	5.0	5		Styrene	ND	5.0	5	
Chloroethane	ND	5.0	5		1,1,1,2-Tetrachloroethane	ND	5.0	5	
Chloroform	ND	5.0	5		1,1,2,2-Tetrachloroethane	ND	5.0	5	
Chloromethane	ND	50	5		Tetrachloroethene	ND	5.0	5	
2-Chlorotoluene	ND	5.0	5		Toluene	ND	5.0	5	
4-Chlorotoluene	ND	5.0	5		1,2,3-Trichlorobenzene	ND	5.0	5	
Dibromochloromethane	ND	5.0	5		1,2,4-Trichlorobenzene	ND	5.0	5	
1,2-Dibromo-3-Chloropropane	ND	25	5		1,1,1-Trichloroethane	ND	5.0	5	
1,2-Dibromoethane	ND	5.0	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5	
Dibromomethane	ND	5.0	5		1,1,2-Trichloroethane	ND	5.0	5	
1,2-Dichlorobenzene	ND	5.0	5		Trichloroethene	ND	5.0	5	
1,3-Dichlorobenzene	ND	5.0	5		Trichlorofluoromethane	ND	50	5	
1,4-Dichlorobenzene	9.4	5.0	5		1,2,3-Trichloropropane	ND	25	5	
Dichlorodifluoromethane	ND	5.0	5		1,2,4-Trimethylbenzene	ND	5.0	5	
1,1-Dichloroethane	ND	5.0	5		1,3,5-Trimethylbenzene	ND	5.0	5	
1,2-Dichloroethane	ND	2.5	5		Vinyl Acetate	ND	50	5	
1,1-Dichloroethene	ND	5.0	5		Vinyl Chloride	2100	25	50	
c-1,2-Dichloroethene	510	5.0	5		p/m-Xylene	ND	5.0	5	
t-1,2-Dichloroethene	73	5.0	5		o-Xylene	ND	5.0	5	
1,2-Dichloropropane	ND	5.0	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	5	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	74-140		1,2-Dichloroethane-d4	110	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	97	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	11/20/07
10875 Rancho Bernardo Road, Suite 200	Work Order No:	07-11-1606
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0445 Page 3 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
B131-MW5	**07-11-1606-3-A**	**11/19/07**	**Aqueous**	**GC/MS JJ**	**11/24/07**	**11/25/07**	**071124L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	250	5		1,3-Dichloropropane	ND	5.0	5	
Benzene	9.0	2.5	5		2,2-Dichloropropane	ND	5.0	5	
Bromobenzene	ND	5.0	5		1,1-Dichloropropene	ND	5.0	5	
Bromochloromethane	ND	5.0	5		c-1,3-Dichloropropene	ND	2.5	5	
Bromodichloromethane	ND	5.0	5		t-1,3-Dichloropropene	ND	2.5	5	
Bromoform	ND	5.0	5		Ethylbenzene	ND	5.0	5	
Bromomethane	ND	50	5		2-Hexanone	ND	50	5	
2-Butanone	ND	50	5		Isopropylbenzene	ND	5.0	5	
n-Butylbenzene	ND	5.0	5		p-Isopropyltoluene	ND	5.0	5	
sec-Butylbenzene	ND	5.0	5		Methylene Chloride	ND	50	5	
tert-Butylbenzene	ND	5.0	5		4-Methyl-2-Pentanone	ND	50	5	
Carbon Disulfide	ND	50	5		Naphthalene	ND	50	5	
Carbon Tetrachloride	ND	2.5	5		n-Propylbenzene	ND	5.0	5	
Chlorobenzene	ND	5.0	5		Styrene	ND	5.0	5	
Chloroethane	ND	5.0	5		1,1,1,2-Tetrachloroethane	ND	5.0	5	
Chloroform	ND	5.0	5		1,1,2,2-Tetrachloroethane	ND	5.0	5	
Chloromethane	ND	50	5		Tetrachloroethene	ND	5.0	5	
2-Chlorotoluene	ND	5.0	5		Toluene	ND	5.0	5	
4-Chlorotoluene	ND	5.0	5		1,2,3-Trichlorobenzene	ND	5.0	5	
Dibromochloromethane	ND	5.0	5		1,2,4-Trichlorobenzene	ND	5.0	5	
1,2-Dibromo-3-Chloropropane	ND	25	5		1,1,1-Trichloroethane	ND	5.0	5	
1,2-Dibromoethane	ND	5.0	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5	
Dibromomethane	ND	5.0	5		1,1,2-Trichloroethane	ND	5.0	5	
1,2-Dichlorobenzene	ND	5.0	5		Trichloroethene	ND	5.0	5	
1,3-Dichlorobenzene	ND	5.0	5		Trichlorofluoromethane	ND	50	5	
1,4-Dichlorobenzene	ND	5.0	5		1,2,3-Trichloropropane	ND	25	5	
Dichlorodifluoromethane	ND	5.0	5		1,2,4-Trimethylbenzene	ND	5.0	5	
1,1-Dichloroethane	ND	5.0	5		1,3,5-Trimethylbenzene	ND	5.0	5	
1,2-Dichloroethane	ND	2.5	5		Vinyl Acetate	ND	50	5	
1,1-Dichloroethene	11	5.0	5		Vinyl Chloride	3800	50	100	
c-1,2-Dichloroethene	7200	100	100		p/m-Xylene	ND	5.0	5	
t-1,2-Dichloroethene	110	5.0	5		o-Xylene	ND	5.0	5	
1,2-Dichloropropane	ND	5.0	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	5	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	74-140		1,2-Dichloroethane-d4	107	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	95	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	11/20/07
10875 Rancho Bernardo Road, Suite 200	Work Order No:	07-11-1606
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0445 Page 4 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
QCEB	**07-11-1606-4-A**	**11/19/07**	**Aqueous**	**GC/MS JJ**	**11/24/07**	**11/25/07**	**071124L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	74-140			1,2-Dichloroethane-d4	106	74-146		
Toluene-d8	100	88-112			1,4-Bromofluorobenzene	96	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
QCTB	**07-11-1606-5-A**	**11/19/07**	**Aqueous**	**GC/MS JJ**	**11/24/07**	**11/25/07**	**071124L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	74-140			1,2-Dichloroethane-d4	107	74-146		
Toluene-d8	99	88-112			1,4-Bromofluorobenzene	97	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-23,537**	**N/A**	**Aqueous**	**GC/MS JJ**	**11/24/07**	**11/25/07**	**071124L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	74-140		1,2-Dichloroethane-d4	105	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	93	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	11/20/07
10875 Rancho Bernardo Road, Suite 200	Work Order No:	07-11-1606
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0445 Page 7 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-23,551**	**N/A**	**Aqueous**	**GC/MS X**	**11/26/07**	**11/26/07**	**071126L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	74-140			1,2-Dichloroethane-d4	99	74-146		
Toluene-d8	96	88-112			1,4-Bromofluorobenzene	94	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW2	**07-11-1606-1**	**11/19/07**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	130	20	20		mg/L	N/A	11/20/07	EPA 300.0
Nitrite (as N)	ND	0.20	2		mg/L	N/A	11/20/07	EPA 300.0
Nitrate (as N)	ND	0.20	2		mg/L	N/A	11/20/07	EPA 300.0
Sulfate	ND	2.0	2		mg/L	N/A	11/20/07	EPA 300.0
Chemical Oxygen Demand	1900	100	5		mg/L	11/27/07	11/27/07	EPA 410.4
Sulfide, Total	0.20	0.050	1		mg/L	11/21/07	11/21/07	SM 4500 S2 - D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW6	**07-11-1606-2**	**11/19/07**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	850	200	200		mg/L	N/A	11/20/07	EPA 300.0
Nitrite (as N)	ND	0.20	2		mg/L	N/A	11/20/07	EPA 300.0
Nitrate (as N)	ND	0.20	2		mg/L	N/A	11/20/07	EPA 300.0
Sulfate	6.2	2.0	2		mg/L	N/A	11/20/07	EPA 300.0
Chemical Oxygen Demand	950	100	5		mg/L	11/27/07	11/27/07	EPA 410.4
Sulfide, Total	16	0.25	5		mg/L	11/21/07	11/21/07	SM 4500 S2 - D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW5	**07-11-1606-3**	**11/19/07**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	640	100	100		mg/L	N/A	11/20/07	EPA 300.0
Nitrite (as N)	ND	0.20	2		mg/L	N/A	11/20/07	EPA 300.0
Nitrate (as N)	ND	0.20	2		mg/L	N/A	11/20/07	EPA 300.0
Sulfate	220	100	100		mg/L	N/A	11/20/07	EPA 300.0
Chemical Oxygen Demand	460	20	1		mg/L	11/27/07	11/27/07	EPA 410.4
Sulfide, Total	3.6	0.10	2		mg/L	11/21/07	11/21/07	SM 4500 S2 - D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	11/20/07	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	11/20/07	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	11/20/07	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	11/20/07	EPA 300.0
Chemical Oxygen Demand	ND	20	1		mg/L	11/27/07	11/27/07	EPA 410.4
Sulfide, Total	ND	0.050	1		mg/L	11/21/07	11/21/07	SM 4500 S2 - D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606
Preparation: N/A
Method: HPLC/UV

Project TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-11-1075-1-E	**Aqueous**	**HPLC 6**	**11/27/07**	**11/27/07**	**071127S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	115	127	70-130	10	0-30	
Butyric Acid	83	93	70-130	11	0-30	
Lactic Acid	94	103	70-130	10	0-30	
Propionic Acid	87	97	70-130	11	0-30	
Pyruvic Acid	113	123	70-130	7	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-11-1631-1-J	**Aqueous**	**GC/MS JJ**	**11/24/07**	**11/25/07**	**071124S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	91	88-118	2	0-7	
Carbon Tetrachloride	88	88	67-145	1	0-11	
Chlorobenzene	92	95	88-118	4	0-7	
1,2-Dibromoethane	96	99	70-130	3	0-30	
1,2-Dichlorobenzene	94	94	86-116	0	0-8	
1,1-Dichloroethene	93	91	70-130	3	0-25	
Ethylbenzene	91	93	70-130	2	0-30	
Toluene	91	93	87-123	2	0-8	
Trichloroethene	89	90	79-127	1	0-10	
Vinyl Chloride	99	101	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	109	108	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	98	96	36-168	2	0-45	
Diisopropyl Ether (DIPE)	110	110	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	116	115	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	110	112	72-126	1	0-12	
Ethanol	99	87	53-149	13	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 11/20/07
Work Order No: 07-11-1606
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-11-1640-4-D	**Aqueous**	**GC/MS X**	**11/26/07**	**11/26/07**	**071126S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	93	88-118	0	0-7	
Carbon Tetrachloride	102	105	67-145	3	0-11	
Chlorobenzene	93	94	88-118	1	0-7	
1,2-Dibromoethane	96	95	70-130	1	0-30	
1,2-Dichlorobenzene	95	95	86-116	0	0-8	
1,1-Dichloroethene	101	94	70-130	7	0-25	
Ethylbenzene	96	96	70-130	0	0-30	
Toluene	96	94	87-123	1	0-8	
Trichloroethene	94	92	79-127	2	0-10	
Vinyl Chloride	94	96	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	95	94	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	119	129	36-168	8	0-45	
Diisopropyl Ether (DIPE)	92	91	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	96	95	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	99	72-126	0	0-12	
Ethanol	100	106	53-149	5	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-11-1606

Project: TDY / SC0445

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	EPA 300.0	07-11-1631-1	11/21/07	N/A	96	97	56-134	0	0-3	
Nitrite (as N)	EPA 300.0	07-11-1631-1	11/21/07	N/A	99	97	68-122	2	0-8	
Nitrate (as N)	EPA 300.0	07-11-1631-1	11/21/07	N/A	96	93	58-142	3	0-6	
Sulfate	EPA 300.0	07-11-1631-1	11/21/07	N/A	103	102	49-133	1	0-3	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-11-1606

Project: TDY / SC0445

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	EPA 410.4	07-11-1577-1	11/27/07	270	260	1	0-25	
Sulfide, Total	SM 4500 S2 - D	07-11-1190-2	11/21/07	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-11-1606
Preparation: N/A
Method: RSK-175M

Project: TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-010-1,940	**Aqueous**	**GC 33**	**N/A**	**11/27/07**	**071127L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	101	101	80-120	0	0-20	
Methane	101	100	79-109	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-11-1606
Preparation: N/A
Method: HPLC/UV

Project: TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-134	**Aqueous**	**HPLC 6**	**11/27/07**	**11/27/07**	**071127L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	120	118	80-120	2	0-20	
Butyric Acid	85	88	80-120	3	0-20	
Lactic Acid	100	98	80-120	2	0-20	
Propionic Acid	89	91	80-120	2	0-20	
Pyruvic Acid	110	109	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-11-1606
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-23,537	**Aqueous**	**GC/MS JJ**	**11/24/07**	**11/24/07**	**071124L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	93	84-120	1	0-8	
Carbon Tetrachloride	92	90	63-147	3	0-10	
Chlorobenzene	92	92	89-119	0	0-7	
1,2-Dibromoethane	101	100	80-120	1	0-20	
1,2-Dichlorobenzene	90	92	89-119	2	0-9	
1,1-Dichloroethene	95	95	77-125	0	0-16	
Ethylbenzene	93	92	80-120	2	0-20	
Toluene	94	93	83-125	2	0-9	
Trichloroethene	94	93	89-119	0	0-8	
Vinyl Chloride	98	97	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	109	110	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	94	94	46-154	0	0-32	
Diisopropyl Ether (DIPE)	111	111	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	115	114	74-122	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	113	114	76-124	1	0-10	
Ethanol	92	87	60-138	6	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-11-1606
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-23,551	**Aqueous**	**GC/MS X**	**11/26/07**	**11/26/07**	**071126L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	99	84-120	2	0-8	
Carbon Tetrachloride	119	114	63-147	4	0-10	
Chlorobenzene	101	97	89-119	3	0-7	
1,2-Dibromoethane	100	96	80-120	4	0-20	
1,2-Dichlorobenzene	100	97	89-119	3	0-9	
1,1-Dichloroethene	112	108	77-125	4	0-16	
Ethylbenzene	104	102	80-120	2	0-20	
Toluene	104	101	83-125	3	0-9	
Trichloroethene	102	101	89-119	1	0-8	
Vinyl Chloride	108	101	63-135	6	0-13	
Methyl-t-Butyl Ether (MTBE)	93	94	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	118	118	46-154	0	0-32	
Diisopropyl Ether (DIPE)	93	92	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	96	96	74-122	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	99	76-124	2	0-10	
Ethanol	108	110	60-138	1	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 07-11-1606

Project: TDY / SC0445

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Chloride	EPA 300.0	099-05-118-4,226	N/A	11/20/07	99	98	81-111	1	0-5	
Nitrite (as N)	EPA 300.0	099-05-118-4,226	N/A	11/20/07	99	98	73-115	1	0-26	
Nitrate (as N)	EPA 300.0	099-05-118-4,226	N/A	11/20/07	94	97	87-111	3	0-12	
Sulfate	EPA 300.0	099-05-118-4,226	N/A	11/20/07	101	100	89-107	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-11-1606

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Document Number: 2204 (1606)

Analysis Request and Chain of Custody Record

Project Name: TOY	Project Number: SCO 445	
Samplers Names: D SKIPPON	Project Contact: B HITCHENS	
Laboratory Name: CALSCIENCE	Lab Contact: S NOWAK	
Lab Address: 7440 LINCOLN WAY GARDEN GROVE, CA	Lab Phone: 1-714-895-5494	Carrier/Waybill No.: 1/5 pickup

Page 1 of 1

White copy: to accompany samples

Yellow copy: field copy

Required Analyses

Sample Name	Date	Time	Sample Type	VOCs by 8260	Metals	SVOCs by 8270	ANIONS	METHANE ETHENE ETHANE	SULFIDE	FATTY ACIDS	COD	Comments	Lab Use Only: Condition of Bottles
				Bottle Type and Volume/Preservative: 1 VOA HCl			250ml -	125ml G HCl	125ml G ZnAc	1L(2) G H_2SO_4	250ml G H_2SO_4		
				Number of Containers									
1 B131-MW2	11/19/07	14:17	H_2O	3			1	2	1	1	1		
2 B131-MW6		15:22		3			1	2	1	1	1	ANIONS	
3 B131-MW5		16:39		3			1	2	1	1	1	- SUFATE	
DUP CEB		13:15		2								~~- SULFIDE~~	
DUP TB lab prep				2								- NITRATE	
												- NITRITE	
												- CHLORINE	

Special Instructions:

Turn-around Time: ☒ Normal ☐ Rush: _____

1. Relinquished by (Signiture/Affiliation) GEOSYNTEC	Date 11/20/07 Time 1055	1. Received by (Signiture/Affiliation) CEL	Date 11-20-7 Time 1055
2. Relinquished by (Signiture/Affiliation)	Date 11-20-7 Time 1610	2. Received by (Signiture/Affiliation)	Date 11-20-7 Time 1610
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

Geosyntec consultants 10875 Rancho Bernardo Road, Suite 200, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 11 - 1606

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Geosyntec **DATE:** 11-20-7

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- _____ Chilled, cooler with temperature blank provided.
- _____ Chilled, cooler without temperature blank.
- ✓ Chilled and placed in cooler with wet ice.
- _____ Ambient and placed in cooler with wet ice.
- _____ Ambient temperature.

3.6 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- _____ °C Temperature blank.
- _____ °C IR thermometer.
- _____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Calscience Environmental Laboratories, Inc.

January 31, 2008

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 08-01-1515**
Client Reference: TDY / SC0307

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/22/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/22/08
10875 Rancho Bernardo Road, Suite 200		Work Order No:	08-01-1515
San Diego, CA 92127-2116		Preparation:	N/A
		Method:	RSK-175M
		Units:	ug/L
Project: TDY / SC0307			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW2	**08-01-1515-1-E**	**01/21/08**	**Aqueous**	**GC 33**	**N/A**	**01/27/08 0:00**	**080127L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	38.2	1.00	1		Methane	8970	80.0	80	
Ethylene	214	8.00	8						

B131-MW6	**08-01-1515-2-E**	**01/21/08**	**Aqueous**	**GC 33**	**N/A**	**01/28/08 0:00**	**080128L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	30.6	2.00	2		Methane	3290	80.0	80	
Ethylene	451	8.00	8						

B131-MW3	**08-01-1515-4-F**	**01/22/08**	**Aqueous**	**GC 33**	**N/A**	**01/27/08 0:00**	**080127L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	14.6	1.00	1		Methane	9940	80.0	80	
Ethylene	19.2	1.00	1						

B131-MW5	**08-01-1515-5-F**	**01/22/08**	**Aqueous**	**GC 33**	**N/A**	**01/28/08 0:00**	**080128L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	52.2	4.00	4		Methane	5020	80.0	80	
Ethylene	431	8.00	8						

Method Blank	**099-12-661-30**	**N/A**	**Aqueous**	**GC 33**	**N/A**	**01/27/08 0:00**	**080127L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

Method Blank	**099-12-661-31**	**N/A**	**Aqueous**	**GC 33**	**N/A**	**01/28/08 0:00**	**080128L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants		Date Received:	01/22/08
10875 Rancho Bernardo Road, Suite 200		Work Order No:	08-01-1515
San Diego, CA 92127-2116		Preparation:	N/A
		Method:	HPLC/UV
		Units:	mg/L

Project: TDY / SC0307 — Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW2	**08-01-1515-1-F**	**01/21/08**	**Aqueous**	**HPLC 6**	**01/30/08**	**01/30/08 11:26**	**080130L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	100	100		Propionic Acid	ND	100	100	
Lactic Acid	1100	100	100						
Surrogates:	REC (%)	Control Limits		Qual					
Dibromopropionic Acid	96	80-120							

B131-MW6	**08-01-1515-2-G**	**01/21/08**	**Aqueous**	**HPLC 6**	**01/30/08**	**01/30/08 11:48**	**080130L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	100	100		Propionic Acid	ND	100	100	
Lactic Acid	390	100	100						
Surrogates:	REC (%)	Control Limits		Qual					
Dibromopropionic Acid	96	80-120							

B131-MW3	**08-01-1515-4-G**	**01/22/08**	**Aqueous**	**HPLC 6**	**01/30/08**	**01/30/08 12:10**	**080130L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	100	100		Propionic Acid	ND	100	100	
Lactic Acid	1400	100	100						
Surrogates:	REC (%)	Control Limits		Qual					
Dibromopropionic Acid	85	80-120							

B131-MW5	**08-01-1515-5-G**	**01/22/08**	**Aqueous**	**HPLC 6**	**01/30/08**	**01/30/08 12:54**	**080130L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Lactic Acid	19	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual					
Dibromopropionic Acid	113	80-120							

Method Blank	**099-12-016-138**	**N/A**	**Aqueous**	**HPLC 6**	**01/30/08**	**01/30/08 10:41**	**080130L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Lactic Acid	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual					
Dibromopropionic Acid	96	80-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	01/22/08
10875 Rancho Bernardo Road, Suite 200	Work Order No:	08-01-1515
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW2	**08-01-1515-1-C**	**01/21/08**	**Aqueous**	**GC/MS JJ**	**01/25/08**	**01/26/08 2:26**	**080125L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	1.0	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	1.8	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	4.9	0.50	1	
c-1,2-Dichloroethene	1.6	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	9.1	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	74-140		1,2-Dichloroethane-d4	104	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	92	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	01/22/08
10875 Rancho Bernardo Road, Suite 200	Work Order No:	08-01-1515
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW6	**08-01-1515-2-C**	**01/21/08**	**Aqueous**	**GC/MS JJ**	**01/25/08**	**01/26/08 3:58**	**080125L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	250	5		1,3-Dichloropropane	ND	5.0	5	
Benzene	23	2.5	5		2,2-Dichloropropane	ND	5.0	5	
Bromobenzene	ND	5.0	5		1,1-Dichloropropene	ND	5.0	5	
Bromochloromethane	ND	5.0	5		c-1,3-Dichloropropene	ND	2.5	5	
Bromodichloromethane	ND	5.0	5		t-1,3-Dichloropropene	ND	2.5	5	
Bromoform	ND	5.0	5		Ethylbenzene	ND	5.0	5	
Bromomethane	ND	50	5		2-Hexanone	ND	50	5	
2-Butanone	ND	50	5		Isopropylbenzene	ND	5.0	5	
n-Butylbenzene	ND	5.0	5		p-Isopropyltoluene	ND	5.0	5	
sec-Butylbenzene	ND	5.0	5		Methylene Chloride	ND	50	5	
tert-Butylbenzene	ND	5.0	5		4-Methyl-2-Pentanone	ND	50	5	
Carbon Disulfide	ND	50	5		Naphthalene	ND	50	5	
Carbon Tetrachloride	ND	2.5	5		n-Propylbenzene	ND	5.0	5	
Chlorobenzene	ND	5.0	5		Styrene	ND	5.0	5	
Chloroethane	ND	5.0	5		1,1,1,2-Tetrachloroethane	ND	5.0	5	
Chloroform	ND	5.0	5		1,1,2,2-Tetrachloroethane	ND	5.0	5	
Chloromethane	ND	50	5		Tetrachloroethene	ND	5.0	5	
2-Chlorotoluene	ND	5.0	5		Toluene	ND	5.0	5	
4-Chlorotoluene	ND	5.0	5		1,2,3-Trichlorobenzene	ND	5.0	5	
Dibromochloromethane	ND	5.0	5		1,2,4-Trichlorobenzene	ND	5.0	5	
1,2-Dibromo-3-Chloropropane	ND	25	5		1,1,1-Trichloroethane	ND	5.0	5	
1,2-Dibromoethane	ND	5.0	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5	
Dibromomethane	ND	5.0	5		1,1,2-Trichloroethane	ND	5.0	5	
1,2-Dichlorobenzene	ND	5.0	5		Trichloroethene	ND	5.0	5	
1,3-Dichlorobenzene	ND	5.0	5		Trichlorofluoromethane	ND	50	5	
1,4-Dichlorobenzene	7.4	5.0	5		1,2,3-Trichloropropane	ND	25	5	
Dichlorodifluoromethane	ND	5.0	5		1,2,4-Trimethylbenzene	ND	5.0	5	
1,1-Dichloroethane	ND	5.0	5		1,3,5-Trimethylbenzene	ND	5.0	5	
1,2-Dichloroethane	ND	2.5	5		Vinyl Acetate	ND	50	5	
1,1-Dichloroethene	ND	5.0	5		Vinyl Chloride	600	2.5	5	
c-1,2-Dichloroethene	190	5.0	5		p/m-Xylene	ND	5.0	5	
t-1,2-Dichloroethene	18	5.0	5		o-Xylene	ND	5.0	5	
1,2-Dichloropropane	ND	5.0	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	5	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	74-140		1,2-Dichloroethane-d4	106	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	90	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	01/22/08
10875 Rancho Bernardo Road, Suite 200	Work Order No:	08-01-1515
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307 Page 3 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB	**08-01-1515-3-A**	**01/21/08**	**Aqueous**	**GC/MS JJ**	**01/23/08**	**01/24/08 0:05**	**080123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	10	10	1	B
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	139	74-140		1,2-Dichloroethane-d4	143	74-146	
Toluene-d8	106	88-112		1,4-Bromofluorobenzene	91	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	01/22/08
10875 Rancho Bernardo Road, Suite 200	Work Order No:	08-01-1515
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307 Page 4 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW3	**08-01-1515-4-C**	**01/22/08**	**Aqueous**	**GC/MS JJ**	**01/25/08**	**01/26/08 4:21**	**080125L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	0.73	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	2.5	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	114	74-140			1,2-Dichloroethane-d4	105	74-146		
Toluene-d8	101	88-112			1,4-Bromofluorobenzene	92	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/22/08
Work Order No: 08-01-1515
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW5	**08-01-1515-5-C**	**01/22/08**	**Aqueous**	**GC/MS JJ**	**01/25/08**	**01/26/08 4:44**	**080125L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	1200	25		1,3-Dichloropropane	ND	25	25	
Benzene	ND	12	25		2,2-Dichloropropane	ND	25	25	
Bromobenzene	ND	25	25		1,1-Dichloropropene	ND	25	25	
Bromochloromethane	ND	25	25		c-1,3-Dichloropropene	ND	12	25	
Bromodichloromethane	ND	25	25		t-1,3-Dichloropropene	ND	12	25	
Bromoform	ND	25	25		Ethylbenzene	ND	25	25	
Bromomethane	ND	250	25		2-Hexanone	ND	250	25	
2-Butanone	ND	250	25		Isopropylbenzene	ND	25	25	
n-Butylbenzene	ND	25	25		p-Isopropyltoluene	ND	25	25	
sec-Butylbenzene	ND	25	25		Methylene Chloride	ND	250	25	
tert-Butylbenzene	ND	25	25		4-Methyl-2-Pentanone	ND	250	25	
Carbon Disulfide	ND	250	25		Naphthalene	ND	250	25	
Carbon Tetrachloride	ND	12	25		n-Propylbenzene	ND	25	25	
Chlorobenzene	ND	25	25		Styrene	ND	25	25	
Chloroethane	ND	25	25		1,1,1,2-Tetrachloroethane	ND	25	25	
Chloroform	ND	25	25		1,1,2,2-Tetrachloroethane	ND	25	25	
Chloromethane	ND	250	25		Tetrachloroethene	ND	25	25	
2-Chlorotoluene	ND	25	25		Toluene	ND	25	25	
4-Chlorotoluene	ND	25	25		1,2,3-Trichlorobenzene	ND	25	25	
Dibromochloromethane	ND	25	25		1,2,4-Trichlorobenzene	ND	25	25	
1,2-Dibromo-3-Chloropropane	ND	120	25		1,1,1-Trichloroethane	ND	25	25	
1,2-Dibromoethane	ND	25	25		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	250	25	
Dibromomethane	ND	25	25		1,1,2-Trichloroethane	ND	25	25	
1,2-Dichlorobenzene	ND	25	25		Trichloroethene	ND	25	25	
1,3-Dichlorobenzene	ND	25	25		Trichlorofluoromethane	ND	250	25	
1,4-Dichlorobenzene	ND	25	25		1,2,3-Trichloropropane	ND	120	25	
Dichlorodifluoromethane	ND	25	25		1,2,4-Trimethylbenzene	ND	25	25	
1,1-Dichloroethane	ND	25	25		1,3,5-Trimethylbenzene	ND	25	25	
1,2-Dichloroethane	ND	12	25		Vinyl Acetate	ND	250	25	
1,1-Dichloroethene	ND	25	25		Vinyl Chloride	2700	12	25	
c-1,2-Dichloroethene	3100	25	25		p/m-Xylene	ND	25	25	
t-1,2-Dichloroethene	85	25	25		o-Xylene	ND	25	25	
1,2-Dichloropropane	ND	25	25		Methyl-t-Butyl Ether (MTBE)	ND	25	25	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	115	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	88	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	01/22/08
10875 Rancho Bernardo Road, Suite 200	Work Order No:	08-01-1515
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-24,192**	**N/A**	**Aqueous**	**GC/MS JJ**	**01/23/08**	**01/23/08 23:23**	**080123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	12	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	135	74-140			1,2-Dichloroethane-d4	139	74-146		
Toluene-d8	104	88-112			1,4-Bromofluorobenzene	85	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants	Date Received:	01/22/08
10875 Rancho Bernardo Road, Suite 200	Work Order No:	08-01-1515
San Diego, CA 92127-2116	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-24,211**	**N/A**	**Aqueous**	**GC/MS JJ**	**01/25/08**	**01/26/08 2:03**	**080125L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	110	74-140			1,2-Dichloroethane-d4	105	74-146		
Toluene-d8	101	88-112			1,4-Bromofluorobenzene	90	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/22/08
Work Order No: 08-01-1515

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW2	**08-01-1515-1**	**01/21/08**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	200	50	50		mg/L	N/A	01/23/08	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	01/23/08	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	01/23/08	EPA 300.0
Sulfate	1.3	1.0	1		mg/L	N/A	01/23/08	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	01/23/08	01/23/08	SM 4500 S2 - D
Carbon, Total Organic	600	25	50		mg/L	N/A	01/22/08	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW6	**08-01-1515-2**	**01/21/08**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	820	200	200		mg/L	N/A	01/23/08	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	01/23/08	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	01/23/08	EPA 300.0
Sulfate	5.2	1.0	1		mg/L	N/A	01/23/08	EPA 300.0
Sulfide, Total	6.8	0.10	2		mg/L	01/23/08	01/23/08	SM 4500 S2 - D
Carbon, Total Organic	200	25	50		mg/L	N/A	01/22/08	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW3	**08-01-1515-4**	**01/22/08**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	330	100	100		mg/L	N/A	01/23/08	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	01/23/08	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	01/23/08	EPA 300.0
Sulfate	1.5	1.0	1		mg/L	N/A	01/23/08	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	01/23/08	01/23/08	SM 4500 S2 - D
Carbon, Total Organic	760	25	50		mg/L	N/A	01/22/08	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/22/08
Work Order No: 08-01-1515

Project: TDY / SC0307

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW5	**08-01-1515-5**	**01/22/08**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	540	100	100		mg/L	N/A	01/23/08	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	01/23/08	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	01/23/08	EPA 300.0
Sulfate	170	50	50		mg/L	N/A	01/23/08	EPA 300.0
Sulfide, Total	1.3	0.050	1		mg/L	01/23/08	01/23/08	SM 4500 S2 - D
Carbon, Total Organic	27	2.5	5		mg/L	N/A	01/22/08	SM 5310 D

Method Blank			**N/A**		**Aqueous**			
Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	01/22/08	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	01/22/08	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	01/22/08	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	01/22/08	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	01/23/08	01/23/08	SM 4500 S2 - D
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	01/22/08	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/22/08
Work Order No: 08-01-1515
Preparation: N/A
Method: HPLC/UV

Project TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B131-MW5	**Aqueous**	**HPLC 6**	**01/30/08**	**01/30/08**	**080130S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	110	110	70-130	0	0-30	
Butyric Acid	97	99	70-130	2	0-30	
Lactic Acid	99	99	70-130	0	0-30	
Propionic Acid	102	101	70-130	1	0-30	
Pyruvic Acid	95	94	70-130	1	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/22/08
Work Order No: 08-01-1515
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-01-1357-3	**Aqueous**	**GC/MS JJ**	**01/23/08**	**01/23/08**	**080123S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	101	88-118	3	0-7	
Carbon Tetrachloride	113	110	67-145	3	0-11	
Chlorobenzene	107	104	88-118	2	0-7	
1,2-Dibromoethane	107	106	70-130	1	0-30	
1,2-Dichlorobenzene	106	104	86-116	2	0-8	
1,1-Dichloroethene	113	111	70-130	2	0-25	
Ethylbenzene	115	112	70-130	3	0-30	
Toluene	106	104	87-123	2	0-8	
Trichloroethene	119	116	79-127	3	0-10	
Vinyl Chloride	93	87	69-129	7	0-13	
Methyl-t-Butyl Ether (MTBE)	103	103	71-131	0	0-13	
Tert-Butyl Alcohol (TBA)	101	99	36-168	2	0-45	
Diisopropyl Ether (DIPE)	106	106	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	110	111	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	107	72-126	1	0-12	
Ethanol	110	110	53-149	0	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/22/08
Work Order No: 08-01-1515
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B131-MW2	**Aqueous**	**GC/MS JJ**	**01/25/08**	**01/26/08**	**080125S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	83	83	88-118	1	0-7	3
Carbon Tetrachloride	87	89	67-145	2	0-11	
Chlorobenzene	97	96	88-118	1	0-7	
1,2-Dibromoethane	94	93	70-130	0	0-30	
1,2-Dichlorobenzene	95	96	86-116	1	0-8	
1,1-Dichloroethene	86	88	70-130	2	0-25	
Ethylbenzene	91	90	70-130	1	0-30	
Toluene	92	92	87-123	0	0-8	
Trichloroethene	87	87	79-127	0	0-10	
Vinyl Chloride	84	85	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	97	98	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	76	76	36-168	1	0-45	
Diisopropyl Ether (DIPE)	94	97	81-123	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	87	88	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	84	85	72-126	2	0-12	
Ethanol	102	103	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-01-1515

Project: TDY / SC0307

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	EPA 300.0	08-01-1438-2	01/23/08	N/A	100	99	56-134	1	0-3	
Nitrite (as N)	EPA 300.0	08-01-1438-2	01/23/08	N/A	96	96	68-122	0	0-8	
Nitrate (as N)	EPA 300.0	08-01-1438-2	01/23/08	N/A	101	103	58-142	3	0-6	
Sulfate	EPA 300.0	08-01-1438-2	01/23/08	N/A	92	92	49-133	0	0-3	
Carbon, Total Organic	SM 5310 D	B131-MW2	01/22/08	N/A	106	104	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-01-1515

Project: TDY / SC0307

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Sulfide, Total	SM 4500 S2 - D	08-01-1583-2	01/23/08	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-01-1515
Preparation: N/A
Method: RSK-175M

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-30	**Aqueous**	**GC 33**	**N/A**	**01/27/08**	**080127L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	88	92	80-120	4	0-20	
Methane	89	93	79-109	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-01-1515
Preparation: N/A
Method: RSK-175M

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-31	**Aqueous**	**GC 33**	**N/A**	**01/28/08**	**080128L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	90	89	80-120	1	0-20	
Methane	91	90	79-109	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-01-1515
Preparation: N/A
Method: HPLC/UV

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-138	**Aqueous**	**HPLC 6**	**01/30/08**	**01/30/08**	**080130L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	94	94	80-120	0	0-20	
Butyric Acid	83	83	80-120	0	0-20	
Lactic Acid	88	88	80-120	1	0-20	
Propionic Acid	85	83	80-120	2	0-20	
Pyruvic Acid	88	88	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-01-1515
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-24,192	**Aqueous**	**GC/MS JJ**	**01/23/08**	**01/23/08**	**080123L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	111	84-120	4	0-8	
Carbon Tetrachloride	124	127	63-147	3	0-10	
Chlorobenzene	112	113	89-119	2	0-7	
1,2-Dibromoethane	107	112	80-120	4	0-20	
1,2-Dichlorobenzene	112	111	89-119	1	0-9	
1,1-Dichloroethene	128	128	77-125	0	0-16	X
Ethylbenzene	124	125	80-120	1	0-20	X
Toluene	112	116	83-125	3	0-9	
Trichloroethene	125	128	89-119	3	0-8	X
Vinyl Chloride	103	105	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	106	108	82-118	2	0-13	
Tert-Butyl Alcohol (TBA)	109	116	46-154	6	0-32	
Diisopropyl Ether (DIPE)	108	110	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	110	111	74-122	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	105	76-124	2	0-10	
Ethanol	114	113	60-138	1	0-32	

Note "X" : The percent recovery is above acceptable control limits. The samples and method blank associated with this batch are non-detect, and therefore, the results have been reported without further clarification.

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-01-1515
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-24,211	**Aqueous**	**GC/MS JJ**	**01/25/08**	**01/25/08**	**080125L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	85	84-120	3	0-8	
Carbon Tetrachloride	91	90	63-147	2	0-10	
Chlorobenzene	99	98	89-119	1	0-7	
1,2-Dibromoethane	97	95	80-120	2	0-20	
1,2-Dichlorobenzene	98	96	89-119	2	0-9	
1,1-Dichloroethene	93	90	77-125	3	0-16	
Ethylbenzene	93	92	80-120	1	0-20	
Toluene	96	92	83-125	3	0-9	
Trichloroethene	94	90	89-119	5	0-8	
Vinyl Chloride	92	91	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	104	100	82-118	4	0-13	
Tert-Butyl Alcohol (TBA)	72	72	46-154	0	0-32	
Diisopropyl Ether (DIPE)	102	99	81-123	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	92	89	74-122	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	88	85	76-124	4	0-10	
Ethanol	109	107	60-138	2	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-01-1515

Project: TDY / SC0307

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Chloride	EPA 300.0	099-05-118-4,314	N/A	01/22/08	96	96	81-111	0	0-5	
Nitrite (as N)	EPA 300.0	099-05-118-4,314	N/A	01/22/08	90	90	73-115	0	0-26	
Nitrate (as N)	EPA 300.0	099-05-118-4,314	N/A	01/22/08	102	100	87-111	2	0-12	
Sulfate	EPA 300.0	099-05-118-4,314	N/A	01/22/08	100	96	89-107	4	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-01-1515

Project: TDY / SC0307

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Carbon, Total Organic	SM 5310 D	099-05-097-2,842	01/22/08	N/A	5.00	5.36	107	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-01-1515

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Document Number: 2230

Analysis Request and Chain of Custody Record

1515

Page 1 of 1

Project Name: TDY	Project Number: SC0307
Samplers Names: CL BG	Project Contact: Brian Hitchens
Laboratory Name: CalScience	Lab Contact: Steve Nowak
Lab Address: 7440 Lincoln Way, Garden Grove CA	Lab Phone: 714 895-5494
	Carrier/Waybill No.

White copy: to accompany samples

Yellow copy: field copy

	Sample Name	Date	Time	Sample Type	Required Analyses: VOCs by 8260	Metals	SVOCs by 8270	Organic Acids	TOC	Methane, Ethene, Ethane	Sulfide	Nitrate, Nitrite, Chloride, Sulfate			Comments	Lab Use Only: Condition of Bottles
					Bottle Type and Volume/Preservative: 40ml VOA HCl			125ml H2SO4	250 H2SO4	125 HCl	100ml H2SO4	250				
					Number of Containers											
1	B131-MW2	1/21/08	12:33	H_2O	3			1	1	2	1	1				
2	B131-MW6	1/21/08	16:20	H_2O	3			1	1	2	1	1				
3	QCEB	1/21/08	14:40	H_2O	3				~~1~~	~~2~~					QCEB VOCs only	
4	B131-MW3	1/22/08	8:55	H_2O	3			1	1	2	1	1				
5	B131-MW5	1/22/08	10:45	H_2O	3			1	1	2	1	1				

Special Instructions:

Turn-around Time: ☐ Normal ☐ Rush: _____

1. Relinquished by (Signiture/Affiliation)	Date 1/22/08 Time 12:05	1. Received by (Signiture/Affiliation) CEC	Date 1-22-8 Time 1205
2. Relinquished by (Signiture/Affiliation)	Date 1/22/8 Time 1605	2. Received by (Signiture/Affiliation)	Date 1/22/8 Time 1605
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

Geosyntec consultants
10875 Rancho Bernardo Road, Suite 200, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 01 - 1515

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Geosyntec DATE: 1-22-8

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
✓ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

3.6 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Calscience
Environmental
Laboratories, Inc.

April 29, 2008

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 08-04-1916**
Client Reference: TDY / SC0445

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/22/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW2	**08-04-1916-2-H**	**04/21/08 10:20**	**Aqueous**	**GC 33**	**N/A**	**04/23/08 00:00**	**080423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	11.9	1.00	1		Methane	4600	40.0	40	
Ethylene	444	40.0	40						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW3	**08-04-1916-3-F**	**04/21/08 12:02**	**Aqueous**	**GC 33**	**N/A**	**04/23/08 00:00**	**080423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	1.67	1.00	1		Methane	4090	40.0	40	
Ethylene	6.57	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW5	**08-04-1916-4-F**	**04/21/08 15:40**	**Aqueous**	**GC 33**	**N/A**	**04/23/08 00:00**	**080423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	88.0	40.0	40		Methane	3760	40.0	40	
Ethylene	640	40.0	40						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW6	**08-04-1916-5-F**	**04/21/08 14:04**	**Aqueous**	**GC 33**	**N/A**	**04/23/08 00:00**	**080423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	52.8	40.0	40		Methane	4110	40.0	40	
Ethylene	1070	40.0	40						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-661-58**	**N/A**	**Aqueous**	**GC 33**	**N/A**	**04/23/08 00:00**	**080423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW2	**08-04-1916-2-B**	**04/21/08 10:20**	**Aqueous**	**GC/MS FF**	**04/29/08**	**04/29/08 16:00**	**080429L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	1.6	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	1.4	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	1.4	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	3.2	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	13	0.50	1	
c-1,2-Dichloroethene	4.2	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	9.4	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	109	74-146	
Toluene-d8	93	88-112		1,4-Bromofluorobenzene	93	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW3	**08-04-1916-3-A**	**04/21/08 12:02**	**Aqueous**	**GC/MS O**	**04/24/08**	**04/25/08 00:23**	**080424L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	3.4	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	1.2	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	0.98	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	3.1	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	89	74-140		1,2-Dichloroethane-d4	83	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	95	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants		Date Received:	04/22/08
10875 Rancho Bernardo Road, Suite 200		Work Order No:	08-04-1916
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW5	**08-04-1916-4-A**	**04/21/08 15:40**	**Aqueous**	**GC/MS O**	**04/26/08**	**04/26/08 18:39**	**080426L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	1000	20		1,3-Dichloropropane	ND	20	20	
Benzene	ND	10	20		2,2-Dichloropropane	ND	20	20	
Bromobenzene	ND	20	20		1,1-Dichloropropene	ND	20	20	
Bromochloromethane	ND	20	20		c-1,3-Dichloropropene	ND	10	20	
Bromodichloromethane	ND	20	20		t-1,3-Dichloropropene	ND	10	20	
Bromoform	ND	20	20		Ethylbenzene	ND	20	20	
Bromomethane	ND	200	20		2-Hexanone	ND	200	20	
2-Butanone	ND	200	20		Isopropylbenzene	ND	20	20	
n-Butylbenzene	ND	20	20		p-Isopropyltoluene	ND	20	20	
sec-Butylbenzene	ND	20	20		Methylene Chloride	ND	200	20	
tert-Butylbenzene	ND	20	20		4-Methyl-2-Pentanone	ND	200	20	
Carbon Disulfide	ND	200	20		Naphthalene	ND	200	20	
Carbon Tetrachloride	ND	10	20		n-Propylbenzene	ND	20	20	
Chlorobenzene	ND	20	20		Styrene	ND	20	20	
Chloroethane	ND	20	20		1,1,1,2-Tetrachloroethane	ND	20	20	
Chloroform	ND	20	20		1,1,2,2-Tetrachloroethane	ND	20	20	
Chloromethane	ND	200	20		Tetrachloroethene	ND	20	20	
2-Chlorotoluene	ND	20	20		Toluene	ND	20	20	
4-Chlorotoluene	ND	20	20		1,2,3-Trichlorobenzene	ND	20	20	
Dibromochloromethane	ND	20	20		1,2,4-Trichlorobenzene	ND	20	20	
1,2-Dibromo-3-Chloropropane	ND	100	20		1,1,1-Trichloroethane	ND	20	20	
1,2-Dibromoethane	ND	20	20		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	200	20	
Dibromomethane	ND	20	20		1,1,2-Trichloroethane	ND	20	20	
1,2-Dichlorobenzene	ND	20	20		Trichloroethene	ND	20	20	
1,3-Dichlorobenzene	ND	20	20		Trichlorofluoromethane	ND	200	20	
1,4-Dichlorobenzene	ND	20	20		1,2,3-Trichloropropane	ND	100	20	
Dichlorodifluoromethane	ND	20	20		1,2,4-Trimethylbenzene	ND	20	20	
1,1-Dichloroethane	ND	20	20		1,3,5-Trimethylbenzene	ND	20	20	
1,2-Dichloroethane	ND	10	20		Vinyl Acetate	ND	200	20	
1,1-Dichloroethene	ND	20	20		Vinyl Chloride	3900	10	20	
c-1,2-Dichloroethene	1500	20	20		p/m-Xylene	ND	20	20	
t-1,2-Dichloroethene	65	20	20		o-Xylene	ND	20	20	
1,2-Dichloropropane	ND	20	20		Methyl-t-Butyl Ether (MTBE)	ND	20	20	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	93	74-140		1,2-Dichloroethane-d4	89	74-146	
Toluene-d8	103	88-112		1,4-Bromofluorobenzene	104	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B131-MW6	**08-04-1916-5-A**	**04/21/08 14:04**	**Aqueous**	**GC/MS O**	**04/26/08**	**04/26/08 19:08**	**080426L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	250	5		1,3-Dichloropropane	ND	5.0	5	
Benzene	26	2.5	5		2,2-Dichloropropane	ND	5.0	5	
Bromobenzene	ND	5.0	5		1,1-Dichloropropene	ND	5.0	5	
Bromochloromethane	ND	5.0	5		c-1,3-Dichloropropene	ND	2.5	5	
Bromodichloromethane	ND	5.0	5		t-1,3-Dichloropropene	ND	2.5	5	
Bromoform	ND	5.0	5		Ethylbenzene	ND	5.0	5	
Bromomethane	ND	50	5		2-Hexanone	ND	50	5	
2-Butanone	ND	50	5		Isopropylbenzene	ND	5.0	5	
n-Butylbenzene	ND	5.0	5		p-Isopropyltoluene	ND	5.0	5	
sec-Butylbenzene	ND	5.0	5		Methylene Chloride	ND	50	5	
tert-Butylbenzene	ND	5.0	5		4-Methyl-2-Pentanone	ND	50	5	
Carbon Disulfide	ND	50	5		Naphthalene	ND	50	5	
Carbon Tetrachloride	ND	2.5	5		n-Propylbenzene	ND	5.0	5	
Chlorobenzene	ND	5.0	5		Styrene	ND	5.0	5	
Chloroethane	ND	5.0	5		1,1,1,2-Tetrachloroethane	ND	5.0	5	
Chloroform	ND	5.0	5		1,1,2,2-Tetrachloroethane	ND	5.0	5	
Chloromethane	ND	50	5		Tetrachloroethene	ND	5.0	5	
2-Chlorotoluene	ND	5.0	5		Toluene	ND	5.0	5	
4-Chlorotoluene	ND	5.0	5		1,2,3-Trichlorobenzene	ND	5.0	5	
Dibromochloromethane	ND	5.0	5		1,2,4-Trichlorobenzene	ND	5.0	5	
1,2-Dibromo-3-Chloropropane	ND	25	5		1,1,1-Trichloroethane	ND	5.0	5	
1,2-Dibromoethane	ND	5.0	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5	
Dibromomethane	ND	5.0	5		1,1,2-Trichloroethane	ND	5.0	5	
1,2-Dichlorobenzene	ND	5.0	5		Trichloroethene	ND	5.0	5	
1,3-Dichlorobenzene	ND	5.0	5		Trichlorofluoromethane	ND	50	5	
1,4-Dichlorobenzene	8.0	5.0	5		1,2,3-Trichloropropane	ND	25	5	
Dichlorodifluoromethane	ND	5.0	5		1,2,4-Trimethylbenzene	ND	5.0	5	
1,1-Dichloroethane	ND	5.0	5		1,3,5-Trimethylbenzene	ND	5.0	5	
1,2-Dichloroethane	ND	2.5	5		Vinyl Acetate	ND	50	5	
1,1-Dichloroethene	ND	5.0	5		Vinyl Chloride	850	2.5	5	
c-1,2-Dichloroethene	800	5.0	5		p/m-Xylene	ND	5.0	5	
t-1,2-Dichloroethene	24	5.0	5		o-Xylene	ND	5.0	5	
1,2-Dichloropropane	ND	5.0	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	5	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	92	74-140		1,2-Dichloroethane-d4	90	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	104	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB	**08-04-1916-6-B**	**04/21/08 13:30**	**Aqueous**	**GC/MS O**	**04/23/08**	**04/23/08 20:54**	**080423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	88	74-140		1,2-Dichloroethane-d4	84	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB	**08-04-1916-7-B**	**04/21/08 08:00**	**Aqueous**	**GC/MS O**	**04/23/08**	**04/23/08 21:24**	**080423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	89	74-140		1,2-Dichloroethane-d4	84	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	94	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants		Date Received:	04/22/08
10875 Rancho Bernardo Road, Suite 200		Work Order No:	08-04-1916
San Diego, CA 92127-2116		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-25,335**	**N/A**	**Aqueous**	**GC/MS O**	**04/23/08**	**04/23/08 15:00**	**080423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	87	74-140		1,2-Dichloroethane-d4	82	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	95	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-25,347**	**N/A**	**Aqueous**	**GC/MS O**	**04/24/08**	**04/24/08 15:29**	**080424L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	89	74-140		1,2-Dichloroethane-d4	82	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	96	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-25,369**	**N/A**	**Aqueous**	**GC/MS O**	**04/26/08**	**04/26/08 16:43**	**080426L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	74-140		1,2-Dichloroethane-d4	99	74-146	
Toluene-d8	105	88-112		1,4-Bromofluorobenzene	107	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-25,394**	**N/A**	**Aqueous**	**GC/MS FF**	**04/29/08**	**04/29/08 13:19**	**080429L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	74-140		1,2-Dichloroethane-d4	106	74-146	
Toluene-d8	94	88-112		1,4-Bromofluorobenzene	90	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW2	**08-04-1916-2**	**04/21/08**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	380	50	50		mg/L	N/A	04/22/08	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/22/08	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/22/08	EPA 300.0
Sulfate	1.1	1.0	1		mg/L	N/A	04/22/08	EPA 300.0
Sulfide, Total	0.40	0.050	1		mg/L	04/23/08	04/23/08	SM 4500 S2 - D
Carbon, Total Organic	620	25	50		mg/L	N/A	04/22/08	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW3	**08-04-1916-3**	**04/21/08**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	390	100	100		mg/L	N/A	04/22/08	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/22/08	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/22/08	EPA 300.0
Sulfate	6.0	1.0	1		mg/L	N/A	04/22/08	EPA 300.0
Sulfide, Total	4.2	0.050	1		mg/L	04/23/08	04/23/08	SM 4500 S2 - D
Carbon, Total Organic	400	25	50		mg/L	N/A	04/22/08	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW5	**08-04-1916-4**	**04/21/08**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	470	100	100		mg/L	N/A	04/22/08	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/22/08	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/22/08	EPA 300.0
Sulfate	290	50	50		mg/L	N/A	04/22/08	EPA 300.0
Sulfide, Total	1.1	0.050	1		mg/L	04/23/08	04/23/08	SM 4500 S2 - D
Carbon, Total Organic	12	2.5	5		mg/L	N/A	04/22/08	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916

Project: TDY / SC0445

Client Sample Number	Lab Sample Number	Date Collected	Matrix
B131-MW6	**08-04-1916-5**	**04/21/08**	**Aqueous**

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	850	100	100		mg/L	N/A	04/22/08	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/22/08	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/22/08	EPA 300.0
Sulfate	46	5.0	5		mg/L	N/A	04/22/08	EPA 300.0
Sulfide, Total	2.3	0.050	1		mg/L	04/23/08	04/23/08	SM 4500 S2 - D
Carbon, Total Organic	15	2.5	5		mg/L	N/A	04/22/08	SM 5310 D

Method Blank			**N/A**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	04/22/08	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/22/08	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/22/08	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	04/22/08	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	04/23/08	04/23/08	SM 4500 S2 - D
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	04/22/08	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-04-1835-3	**Aqueous**	**GC/MS O**	**04/23/08**	**04/23/08**	**080423S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	102	88-118	1	0-7	
Carbon Tetrachloride	88	86	67-145	2	0-11	
Chlorobenzene	114	113	88-118	0	0-7	
1,2-Dibromoethane	114	115	70-130	1	0-30	
1,2-Dichlorobenzene	112	114	86-116	2	0-8	
1,1-Dichloroethene	89	98	70-130	10	0-25	
Ethylbenzene	108	108	70-130	0	0-30	
Toluene	106	106	87-123	1	0-8	
Trichloroethene	99	99	79-127	0	0-10	
Vinyl Chloride	98	99	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	96	90	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	109	98	36-168	5	0-45	
Diisopropyl Ether (DIPE)	104	104	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	97	97	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	100	72-126	1	0-12	
Ethanol	104	118	53-149	13	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-04-1078-16	**Aqueous**	**GC/MS O**	**04/24/08**	**04/24/08**	**080424S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	103	88-118	3	0-7	
Carbon Tetrachloride	92	91	67-145	1	0-11	
Chlorobenzene	121	117	88-118	3	0-7	3
1,2-Dibromoethane	123	119	70-130	3	0-30	
1,2-Dichlorobenzene	118	115	86-116	3	0-8	3
1,1-Dichloroethene	90	87	70-130	3	0-25	
Ethylbenzene	116	114	70-130	2	0-30	
Toluene	114	110	87-123	4	0-8	
Trichloroethene	108	104	79-127	4	0-10	
Vinyl Chloride	96	99	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	95	94	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	111	107	36-168	4	0-45	
Diisopropyl Ether (DIPE)	88	82	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	100	98	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	102	99	72-126	3	0-12	
Ethanol	119	119	53-149	0	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-04-1997-2	**Aqueous**	**GC/MS O**	**04/26/08**	**04/26/08**	**080426S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	106	88-118	2	0-7	
Carbon Tetrachloride	89	92	67-145	3	0-11	
Chlorobenzene	116	117	88-118	1	0-7	
1,2-Dibromoethane	120	120	70-130	0	0-30	
1,2-Dichlorobenzene	110	110	86-116	0	0-8	
1,1-Dichloroethene	117	116	70-130	1	0-25	
Ethylbenzene	113	114	70-130	1	0-30	
Toluene	103	104	87-123	0	0-8	
Trichloroethene	103	105	79-127	2	0-10	
Vinyl Chloride	110	113	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	33	17	71-131	22	0-13	3,4
Tert-Butyl Alcohol (TBA)	65	69	36-168	7	0-45	
Diisopropyl Ether (DIPE)	116	119	81-123	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	101	100	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	92	91	72-126	1	0-12	
Ethanol	125	133	53-149	6	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/22/08
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B

Project TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-04-1865-1	**Aqueous**	**GC/MS FF**	**04/29/08**	**04/29/08**	**080429S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	107	88-118	0	0-7	
Carbon Tetrachloride	130	128	67-145	2	0-11	
Chlorobenzene	108	103	88-118	4	0-7	
1,2-Dibromoethane	109	103	70-130	5	0-30	
1,2-Dichlorobenzene	97	101	86-116	4	0-8	
1,1-Dichloroethene	116	118	70-130	2	0-25	
Ethylbenzene	116	112	70-130	3	0-30	
Toluene	109	111	87-123	2	0-8	
Trichloroethene	106	108	79-127	1	0-10	
Vinyl Chloride	102	106	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	107	105	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	108	105	36-168	3	0-45	
Diisopropyl Ether (DIPE)	110	107	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	108	106	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	105	107	72-126	1	0-12	
Ethanol	90	93	53-149	3	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-04-1916

Project: TDY / SC0445

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	EPA 300.0	B131-MW2	04/22/08	N/A	105	103	56-134	1	0-3	
Nitrite (as N)	EPA 300.0	B131-MW2	04/22/08	N/A	98	96	68-122	1	0-8	
Nitrate (as N)	EPA 300.0	B131-MW2	04/22/08	N/A	96	96	58-142	0	0-6	
Sulfate	EPA 300.0	B131-MW2	04/22/08	N/A	106	106	49-133	0	0-3	
Carbon, Total Organic	SM 5310 D	08-04-1829-1	04/22/08	N/A	93	92	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-04-1916

Project: TDY / SC0445

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Sulfide, Total	SM 4500 S2 - D	B131-MW2	04/23/08	0.40	0.40	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-04-1916
Preparation: N/A
Method: RSK-175M

Project: TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-58	**Aqueous**	**GC 33**	**N/A**	**04/23/08**	**080423L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	97	97	80-120	0	0-20	
Methane	94	94	79-109	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-25,335	**Aqueous**	**GC/MS O**	**04/23/08**	**04/23/08**	**080423L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	100	84-120	1	0-8	
Carbon Tetrachloride	85	89	63-147	4	0-10	
Chlorobenzene	114	113	89-119	1	0-7	
1,2-Dibromoethane	113	113	80-120	1	0-20	
1,2-Dichlorobenzene	112	111	89-119	1	0-9	
1,1-Dichloroethene	84	85	77-125	1	0-16	
Ethylbenzene	107	108	80-120	1	0-20	
Toluene	104	105	83-125	0	0-9	
Trichloroethene	98	100	89-119	2	0-8	
Vinyl Chloride	100	102	63-135	2	0-13	
Methyl-t-Butyl Ether (MTBE)	88	89	82-118	2	0-13	
Tert-Butyl Alcohol (TBA)	98	93	46-154	5	0-32	
Diisopropyl Ether (DIPE)	100	103	81-123	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	92	96	74-122	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	96	76-124	1	0-10	
Ethanol	94	104	60-138	10	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-25,347	**Aqueous**	**GC/MS O**	**04/24/08**	**04/24/08**	**080424L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	105	84-120	0	0-8	
Carbon Tetrachloride	94	92	63-147	1	0-10	
Chlorobenzene	118	118	89-119	0	0-7	
1,2-Dibromoethane	120	119	80-120	0	0-20	
1,2-Dichlorobenzene	115	115	89-119	0	0-9	
1,1-Dichloroethene	91	86	77-125	5	0-16	
Ethylbenzene	114	114	80-120	0	0-20	
Toluene	110	111	83-125	1	0-9	
Trichloroethene	102	104	89-119	2	0-8	
Vinyl Chloride	101	99	63-135	2	0-13	
Methyl-t-Butyl Ether (MTBE)	93	94	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	101	105	46-154	4	0-32	
Diisopropyl Ether (DIPE)	107	106	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	100	100	74-122	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	101	76-124	1	0-10	
Ethanol	104	113	60-138	9	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-25,369	**Aqueous**	**GC/MS O**	**04/26/08**	**04/26/08**	**080426L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	105	84-120	2	0-8	
Carbon Tetrachloride	92	92	63-147	1	0-10	
Chlorobenzene	119	116	89-119	2	0-7	
1,2-Dibromoethane	130	127	80-120	2	0-20	X
1,2-Dichlorobenzene	110	110	89-119	1	0-9	
1,1-Dichloroethene	93	94	77-125	1	0-16	
Ethylbenzene	116	113	80-120	2	0-20	
Toluene	106	106	83-125	0	0-9	
Trichloroethene	106	106	89-119	0	0-8	
Vinyl Chloride	107	107	63-135	0	0-13	
Methyl-t-Butyl Ether (MTBE)	106	94	82-118	12	0-13	
Tert-Butyl Alcohol (TBA)	136	122	46-154	11	0-32	
Diisopropyl Ether (DIPE)	118	118	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	113	112	74-122	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	107	76-124	1	0-10	
Ethanol	134	121	60-138	10	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-04-1916
Preparation: EPA 5030B
Method: EPA 8260B

Project: TDY / SC0445

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-25,394	**Aqueous**	**GC/MS FF**	**04/29/08**	**04/29/08**	**080429L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	107	84-120	0	0-8	
Carbon Tetrachloride	123	123	63-147	0	0-10	
Chlorobenzene	104	106	89-119	2	0-7	
1,2-Dibromoethane	100	101	80-120	0	0-20	
1,2-Dichlorobenzene	98	99	89-119	1	0-9	
1,1-Dichloroethene	113	116	77-125	3	0-16	
Ethylbenzene	112	112	80-120	0	0-20	
Toluene	111	111	83-125	0	0-9	
Trichloroethene	109	107	89-119	1	0-8	
Vinyl Chloride	105	105	63-135	0	0-13	
Methyl-t-Butyl Ether (MTBE)	100	102	82-118	3	0-13	
Tert-Butyl Alcohol (TBA)	90	92	46-154	2	0-32	
Diisopropyl Ether (DIPE)	104	108	81-123	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	103	106	74-122	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	106	76-124	0	0-10	
Ethanol	89	89	60-138	1	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-04-1916

Project: TDY / SC0445

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Chloride	EPA 300.0	099-05-118-4,476	N/A	04/22/08	95	95	81-111	0	0-5	
Nitrite (as N)	EPA 300.0	099-05-118-4,476	N/A	04/22/08	98	98	73-115	1	0-26	
Nitrate (as N)	EPA 300.0	099-05-118-4,476	N/A	04/22/08	96	96	87-111	0	0-12	
Sulfate	EPA 300.0	099-05-118-4,476	N/A	04/22/08	99	99	89-107	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Quality Control - Laboratory Control Sample

GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 08-04-1916

Project: TDY / SC0445

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Carbon, Total Organic	SM 5310 D	099-05-097-2,952	04/22/08	N/A	5.00	4.42	88	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-04-1916

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

COC# 2008-01

Date 04-21-08

Page 1 of 1

LABORATORY CLIENT: Blaine Tech Services		CLIENT PROJECT NAME / NUMBER: 080421-KC1	P.O. NO.:
ADDRESS: 20735 Belshaw Ave		PROJECT CONTACT: Dave Webb	LAB USE ONLY 04-1916
CITY: Carson	STATE: CA	ZIP: 90746	SAMPLER(S): (PRINT) Kerry L. Campbell
TEL: 310-885-4455	E-MAIL:		COELT LOG CODE ☐☐☐☐
			COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐ _____

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C7-C36) or (C7-C44)	TPH ( )	BTEX / MTBE (8260B)	VOCs (8260B)	VOCs+Oxys (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8181A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI)[7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g)[TO-3]+			
1	B158-MW1		04-21-08	0907	W	2																		
2	B131-MW2		"	1020	"	9																		
3	B131-MW3		"	1202	"	9																		
4	B131-MW5		"	1540	"	9																		
5	B131-MW6		"	1404	"	9																		
6	QCEB		"	1330	"	3																		
7	QCTB		"	0800	"	2																		

Relinquished by: (Signature)	Received by: (Signature/Affiliation) CEL	Date: 4/22/8	Time: 1210
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 4/22/8	Time: 1600
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the green and Yellow copies respectively.

05/01/07 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT: **Geosyntec Consultants**

ADDRESS: **10875 Rancho Bernardo Road, Suite 200**

CITY: **San Diego, CA 92127**

TEL: **(858) 674-6559** FAX: **(858) 674-6586** E-MAIL

CLIENT PROJECT NAME / NUMBER:

P.O. NO.:

PROJECT CONTACT: **Chris Lieder**

QUOTE NO.:

Sample Technician: Kerry Campbell

LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____ / ____ / ____

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Please list tests required		VOCs (8260B)	Organic Acids	TOC	Methane, Ethene, Ethane	Sulfide	Nitrate, Nitrite	Chloride, Sulfate													
	B131-MW2		04/21/08	1020	W	9			X	X	X	X	X	X	X													
	B131-MW3		04/21/08	1202	W	9			X	X	X	X	X	X	X													
	B131-MW5		04/21/08	1540	W	9			X	X	X	X	X	X	X													
	B131-MW6		04/21/08	1404	W	9			X	X	X	X	X	X	X													
	QCEB		04/21/08	1330	W	3			X																			
	QCTB		04/21/08	800	W	2			X																			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 04 - 1914

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Blaine Tech DATE: 4/22/08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
✓ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
3.3 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

No analyses requested on COC

www.siremlab.com
130 Research Lane, Suite 2
Guelph, Ontario N1G 5G3
Phone (519) 822-2265
Fax (519) 822-3151

Certificate of Analysis: Gene-Trac-VC, Vinyl Chloride Reductase (*vcrA*) Assay

Customer: Brian Hitchens, Geosyntec Consultants

SiREM Reference: S-1177

Project: TDY

Report Issued: 13-Dec-07

Customer Reference: SCO445

Data Files: DHC-UP-0406/VC-QPCR-0109
VC-QPCR check-gel-0130

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent *vcrA* [A]	Vinyl Chloride Reductase (*vcrA*) Gene Copies
B131-MW2	VCR-0732	19-Nov-07	Groundwater	54-99%	3×10^8/liter
B131-MW5	VCR-0733	19-Nov-07	Groundwater	65-100%	1×10^9/liter
B131-MW6	VCR-0734	19-Nov-07	Groundwater	42-84%	2×10^9/liter

Notes:

[A] Percentage of bacteria in the microbial population that harbor the *vcrA* gene. This value is calculated by dividing the measured number of cells haboring the vinyl chloride reductase A (*vcrA*) gene by the total number of bacteria in the sample estimated using the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA*.

Analyst: J. Wilkinson
Jennifer Wilkinson
Biotechnology Technologist

Approved: Ximena Druar
Ximena Druar, B.Sc.
Molecular Biology Coordinator

Table 2: Detailed Test Parameters, GeneTrac Test Reference S-1177

Customer Sample ID	B131-MW2	B131-MW5	B131-MW6
SiREM Test ID	VCR-0732	VCR-0733	VCR-0734
Date Received	28-Nov-07	28-Nov-07	28-Nov-07
Sample Temperature	5.6 ˚C	5.6 ˚C	5.6 ˚C
Volume Used for DNA Extraction	300 mL	300 mL	125 mL
DNA Extraction Date	6-Dec-07	6-Dec-07	6-Dec-07
DNA Concentration in Sample (extractable)	712 ng/L	1843 ng/L	7252 ng/L
Extracted DNA Quality Test (universal PCR primers)	Passed	Passed	Passed
Secondary DNA Purification	NR	NR	NR
qPCR Analysis Date	12-Dec-07	12-Dec-07	12-Dec-07
qPCR Controls (see Table 3)	Passed	Passed	Passed
Comments	- -	- -	- -

Notes:

Refer to Table 3 for detailed results of controls.

NA = not applicable

mL = milliliters

ng/L = nanograms per liter

PCR = polymerase chain reaction

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

NR = not required

DNA = Deoxyribonucleic acid

°C = degrees Celsius

Table 3: Experimental Control Results, Test Reference S-1177

Laboratory Control	Analysis Date	Control Description	Spiked *vcrA* reductase Gene Copies per Reaction	Recovered *vcrA* reductase Gene Copies per Reaction	Comments
Positive Control Low Concentration	12-Dec-07	qPCR with cloned vinyl chloride dehalogenase gene (1.41×10^5 copies)	1.41×10^5	1.63×10^5	Normal[1]
Positive Control High Concentration	12-Dec-07	qPCR with cloned vinyl chloride dehalogenase gene (1.41×10^7 copies)	1.41×10^7	1.32×10^7	Normal[1]
DNA Extraction Blank	12-Dec-07	DNA extraction sterile water (DB-0688)	0	ND	Normal
Negative Control	12-Dec-07	Tris Reagent Blank	0	ND	Normal

Notes:

NA = not applicable

ND = not detected

[1] Within defined limits of +/- 50%

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

DNA = Deoxyribonucleic acid

16S rRNA = 16S ribosomal ribonucleic acid

vcrA = vinyl chloride reductase

Document Number: 2220
5-1177

Analysis Request and Chain of Custody Record

Project Name: TPY	Project Number: SC0445
Samplers Names: D. SALMON	Project Contact: B. HITCHINGS
Laboratory Name: SIREM	Lab Contact: SANDRA DWORATZEK
Lab Address: 130 RESEARCH LANE, SUITE 2 GUELPH ON	Lab Phone: 1-866-251-1747
	Carrier/Waybill No.: Fedex

Page 1 of 1

White copy: to accompany samples

Yellow copy: field copy

Required Analyses

Sample Name	Date	Time	Sample Type	VOCs by ___	Metals	SVOCs by 8270	GENETRAC - VC							Comments	Lab Use Only: Condition of Bottles
				Bottle Type and Volume/Preservative			1L P								
				Number of Containers											
B131-MW2	11/9/07	14:17	H2O				1								
B131-MW5	↓	16:39	↓				1								
B131-MW6	↓	15:22	↓				1								

Special Instructions:

Turn-around Time: ☒ Normal ☐ Rush: _____

1. Relinquished by (Signiture/Affiliation)	Date 11/27/07 Time 14:14	1. Received by (Signiture/Affiliation) J. Wilkinson SREM	Date 11/28/07 Time 1:30pm
2. Relinquished by (Signiture/Affiliation)	Date Time	2. Received by (Signiture/Affiliation)	Date Time
3. Relinquished by (Signiture/Affiliation)	Date Time	3. Received by (Signiture/Affiliation)	Date Time

Geosyntec consultants
10875 Rancho Bernardo Road, Suite 200, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

www.siremlab.com
130 Research Lane, Suite 2
Guelph, Ontario N1G 5G3
Phone (519) 822-2265
Fax (519) 822-3151

Certificate of Analysis: Gene-Trac-VC, Vinyl Chloride Reductase (*vcrA*) Assay

Customer: Brian Hitchens, Geosyntec Consultants

SiREM Reference: S-1213

Project: TDY

Report Issued: 8-Feb-08

Customer Reference: SC0445

Data Files: DHC-UP-0422/VC-QPCR-0114
VC-QPCR check-gel-0138

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent *vcrA* [A]	Vinyl Chloride Reductase (*vcrA*) Gene Copies
B131-MW3	VCR-0765	22-Jan-08	Groundwater	0.7-2%	6×10^7/liter[(1)]

Notes:

[A] Percentage of bacteria in the microbial population that harbor the *vcrA* gene. This value is calculated by dividing the measured number of cells haboring the vinyl chloride reductase A (*vcrA*) gene by the total number of bacteria in the sample estimated using the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA*.

[1]Correction factor applied to correct for non-specific PCR amplification products.

Analyst: J. Wilkinson
Jennifer Wilkinson
Biotechnology Technologist

Approved: Ximena Druar
Ximena Druar, B.Sc.
Molecular Biology Coordinator

Table 2: Detailed Test Parameters, Gene-Trac Test Reference S-1213

Customer Sample ID	B131-MW3
SiREM Test ID	VCR-0765
Date Received	25-Jan-08
Sample Temperature	3.7 ˚C
Volume Used for DNA Extraction	100 mL
DNA Extraction Date	30-Jan-08
DNA Concentration in Sample (extractable)	20490 ng/L
Extracted DNA Quality Test (universal PCR primers)	Passed
Secondary DNA Purification	NR
qPCR Analysis Date	7-Feb-08
qPCR Controls (see Table 3)	Passed
Comments	- -

Notes:

Refer to Table 3 for detailed results of controls.
ND = not detected
mL = milliliters
ng/L = nanograms per liter
PCR = polymerase chain reaction
qPCR = quantitative PCR
Dhc = *Dehalococcoides*
NR = not required
DNA = Deoxyribonucleic acid
°C = degrees Celsius

Table 3: Experimental Control Results, Test Reference S-1213

Laboratory Control	Analysis Date	Control Description	Spiked *vcrA* reductase Gene Copies per Reaction	Recovered *vcrA* reductase Gene Copies per Reaction	Comments
Positive Control Low Concentration	7-Feb-08	qPCR with cloned vinyl chloride dehalogenase gene (1.41×10^5 copies)	1.41×10^5	1.11×10^5	Normal[1]
Positive Control High Concentration	7-Feb-08	qPCR with cloned vinyl chloride dehalogenase gene (1.41×10^7 copies)	1.41×10^7	1.18×10^7	Normal[1]
DNA Extraction Blank	7-Feb-08	DNA extraction sterile water (DB-0712)	0	ND	Normal
Negative Control	7-Feb-08	Tris Reagent Blank	0	ND	Normal

Notes:

NA = not applicable

ND = not detected

[1] Within defined limits of +/- 50%

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

DNA = Deoxyribonucleic acid

16S rRNA = 16S ribosomal ribonucleic acid

vcrA = vinyl chloride reductase

Document Number: 2312 S-1213

Analysis Request and Chain of Custody Record

Page 1 of 1

Project Name: TPY	Project Number: SC0445
Samplers Names: C B C	Project Contact: Brian Hitchens
Laboratory Name: Siren	Lab Contact: Jeff Roberts
Lab Address: 130 Research Lane Guelph, Canada	Lab Phone: 519-822-2230
	Carrier/Waybill No.: 798358588758

White copy: to accompany samples

Yellow copy: field copy

Required Analyses

VOCs by ____	Metals	SVOCs by 8270	VCRA						
			1						

Bottle Type and Volume/Preservative

Number of Containers

Sample Name	Date	Time	Sample Type	Comments	Lab Use Only: Condition of Bottles
B131-MW3	1/22/08	8:55	H_2O		

Special Instructions:

Turn-around Time:
☑ Normal ☐ Rush: _____

1. Relinquished by (Signature/Affiliation)	Date 1/22/08 Time 15:32	1. Received by (Signature/Affiliation)	Date 1/22/08 Time 15:32
2. Relinquished by (Signature/Affiliation)	Date 1/23/08 Time 15:30	2. Received by (Signature/Affiliation) SIREM	Date 1/25/08 Time 13:40
3. Relinquished by (Signature/Affiliation)	Date Time	3. Received by (Signature/Affiliation)	Date Time

Geosyntec consultants
10875 Rancho Bernardo Road, Suite 200, San Diego, CA 92127 (858) 674-6559 Fax: (858) 674-6586

ATTACHMENT C

Injection Field Sheets

FIELD INJECTION LOG
TDY Industries
San Diego, California

Geosyntec consultants

		TOTALIZER READINGS (gal)					VOLUMES ADDED (gal)						
Injection Point	Date	(A) Start of EVO Solution Addition	(B) Start of ANA Addition	(C) End of ANA Addition	(D) End of EVO Solution Addtion	(E) End of Chase Water Addition	EVO Solution and ANA Water (D - A)	ANA Water (C - B)	Chase Water (E - D)	Estimated Average Wellhead Pressure (psi)	KB-1 Vessel Code*	Technician Initials	Comments
IP- 1	9/11/07	0	320	420	1310	1610	1310	100	300	25			
IP- 2	9/11/07	0	343	443	1310	1610	1310	100	300	-			
IP- 3	9/11/07	0	* ABANDONED SCREEN SLOTED IN - NO FLOW										
IP- 4	9/11/07	0	* ABANDONED SCREEN SLOTED IN. NO FLOW										
IP- 5	9/11/07	0	* ABANDONED SCREEN SLOTED IN NO FLOW										
IP- 6	9/11/07	0	424	524	1310	1610	1310	100	300	15			
IP- 7	9/11/07	0	375	475	1310	1610	1310	100	300	25			
IP- 8	9/11/07	0	*	ABANDONED		SCREEN	SLOTED IN			-			
IP- 9	9/12/07	0	385	485	1310	1610	1310	100	30	20			
IP- 10	9/12/07	1610	* ABANDONED			BREAKTHROUGH							shut off at 1873 - breakthrough
IP- 11	9/12/07	0	ABANDONED		BREAKTHROUGH AT		60						retry IP-11
IP- 11	9/12/07	0	405	505	BREAKTHROUGH								
IP- 12	9/12/07	0	420	520	BREAKTHROUGH								
IP- 8A	9/12/07	0	97	ABANDONED DUE TO BREAKTHROUGH									
IP- ~~XX~~	9/12/07	0	97	ABANDONED DUE to BREAKTHROUGH									IP-4A
IP- 13	9/12/07	0	345	445	1310	1610	1310	100	300	25			
IP- 14	9/13/07	0	420	520	1310	1610	1310	100	300	25			
IP- 15	9/12/07	0	~~380~~ 1610	~~480~~ 1443	2920								
IP- 16	9/12/07	0	470	570	1310	1610	1310	100	300	25			
IP- 17	9/12/07	0	405	505									
IP- 18	9/13/07	0	380	480	1310	1610	1310	100	300	20			
IP- 19	9/14/07	0	360	460									

EVO - emulsified vegetable oil
ANA - anaerobic
* KB-1 vessel code from KB-1 Logs

FIELD INJECTION LOG
TDY Industries
San Diego, California

Geosyntec consultants

		TOTALIZER READINGS (gal)					VOLUMES ADDED (gal)						
Injection Point	Date	(A) Start of EVO Solution Addition	(B) Start of ANA Addition	(C) End of ANA Addition	(D) End of EVO Solution Addtion	(E) End of Chase Water Addition	EVO Solution and ANA Water (D - A)	ANA Water (C - B)	Chase Water (E - D)	Estimated Average Wellhead Pressure (psi)	KB-1 Vessel Code*	Technician Initials	Comments
IP-20	9/13/07												
IP-21	↓												
IP-22													
IP-23													
IP-24	↓												
IP-25	9/14/07												
IP-26	↓												
IP-27													
IP-28													
IP-29													
IP-30													
IP-31													
IP-32													
IP-33													
IP-34													
IP-35	↓												
IP-													
IP-													
IP-													
IP-													
IP-													
IP-													

EVO - emulsified vegetable oil
ANA - anaerobic
* KB-1 vessel code from KB-1 Logs

FIELD INJECTION LOG
TDY Industries
San Diego, California

IP-20

Geosyntec consultants

		TOTALIZER READINGS (gal)										VOLUMES ADDED (gal)							
Injection Point	Date	(A) Start of EVO Solution Addition		(B) Start of ANA Addition		(C) End of ANA Addition		(D) End of EVO Solution Addtion		(E) End of Chase Water Addition		EVO Solution and ANA Water (D - A)	ANA Water (C - B)	Chase Water (E - D)	Estimated Average Wellhead Pressure (psi)	KB-1 Vessel Code*	Technician Initials	KB-1	Comments VO2	~~START~~ STOP
IP-20	9/14/02	0	12:36	505	13:49	605	14:12	1300	15:46	1621	16:00								555	14:06
IP -																				6gm/20psi
IP -																				
IP -																				
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EVO - emulsified vegetable oil
ANA - anaerobic
* KB-1 vessel code from KB-1 Logs

I P21

FIELD INJECTION LOG
TDY Industries
San Diego, California

Geosyntec consultants

		TOTALIZER READINGS (gal)					VOLUMES ADDED (gal)						
Injection Point	Date	(A) Start of EVO Solution Addition	(B) Start of ANA Addition	(C) End of ANA Addition	(D) End of EVO Solution Addtion	(E) End of Chase Water Addition	EVO Solution and ANA Water (D - A)	ANA Water (C - B)	Chase Water (E - D)	Estimated Average Wellhead Pressure (psi)	KB-1 Vessel Code*	Technician Initials	KB-1 Comments
IP - 21	9/13/07	0 1258	13.26 320	420 13:47	15:25 1375	15:46 1675							1346 370 ~~6 gpm 120 psi~~ 9.67 @ 20 psi
IP -													
IP -													
IP -													
IP -													
IP -													
IP -													
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EVO - emulsified vegetable oil
ANA - anaerobic
* KB-1 vessel code from KB-1 Logs

PAGE ____

IP-22

FIELD INJECTION LOG
TDY Industries
San Diego, California

Geosyntec consultants

Injection Point	Date	TOTALIZER READINGS (gal) (A) Start of EVO Solution Addition		(B) Start of ANA Addition		(C) End of ANA Addition		(D) End of EVO Solution Addtion		(E) End of Chase Water Addition		VOLUMES ADDED (gal) EVO Solution and ANA Water (D - A)	ANA Water (C - B)	Chase Water (E - D)	Estimated Average Wellhead Pressure (psi)	KB-1 Vessel Code*	Technician Initials	KB-1	Comments	
IP-22	9/13/07	0	1327	530	1328	630	1642	1350	1555	~~16~~ 16:18	1610 ~~16:17~~							580	1437	20 PSI
IP -																				10 GPM
IP -																				25 PSI
IP -																				
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IP-23

FIELD INJECTION LOG
TDY Industries
San Diego, California

Geosyntec consultants

Injection Point	Date	TOTALIZER READINGS (gal) (A) Start of EVO Solution Addition	(B) Start of ANA Addition	(C) End of ANA Addition	(D) End of EVO Solution Addtion	(E) End of Chase Water Addition	VOLUMES ADDED (gal) EVO Solution and ANA Water (D - A)	ANA Water (C - B)	Chase Water (E - D)	Estimated Average Wellhead Pressure (psi)	KB-1 Vessel Code*	Technician Initials	KB-1	Comments
IP-23	9/13/07	1610	2060	14:50 2160	1305 ~~2925~~ 13857	2980	3220	1609						2110 1500
IP -														
IP -														V7 Gpm
IP -														@ 15 psi.
IP -														
IP -														
IP -														
IP -														
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IP -														

EVO - emulsified vegetable oil
ANA - anaerobic
* KB-1 vessel code from KB-1 Logs

IP24

FIELD INJECTION LOG
TDY Industries
San Diego, California

Geosyntec consultants

Injection Point	Date	TOTALIZER READINGS (gal) (A) Start of EVO Solution Addition	(B) Start of ANA Addition	(C) End of ANA Addition	(D) End of EVO Solution Addtion	(E) End of Chase Water Addition	VOLUMES ADDED (gal) EVO Solution and ANA Water (D - A)	ANA Water (C - B)	Chase Water (E - D)	Estimated Average Wellhead Pressure (psi)	KB-1 Vessel Code*	Technician Initials	KB-1 Comments
IP-24	9/13/07	0 15:03	410	1537 5 10 16:14	1310	522 1613							460 ~~1537~~ 15:41
IP-													
IP-													* note change
IP-													late
IP-													
IP-													12.41 GPM @
IP-													16:16 30 psi
IP-													14.15 GPM @ 35 psi
IP-													
IP-													
IP-													
IP-													
IP-													
IP-													
IP-													
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IP-													
IP-													
IP-													

EVO - emulsified vegetable oil
ANA - anaerobic
* KB-1 vessel code from KB-1 Logs

INJECTION POINT

IP - 25

DATE	9/14/07
FLOW RATE	9.6 GPM
PSI	25
DOSER ID	P4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	7:49	0	
END EVO	9:54	1310	
			1310

START ANA	8:21	350	**TOTAL**
END ANA	8:38	450	
			100

INJECT KB-1	8:29	500 ml

START CHASE	9:54	1310	**TOTAL**
STOP CHASE	10:18	1610	
			1610

COMMENTS	8:05 INCREASE FLOW TO 11.97 @ 25 PSI 10:02 INCREASE FLOW TO 13.63 @ 30 PSI

INJECTION POINT

IP - 26

DATE	9/14/07
FLOW RATE	11.57
PSI	25
DOSER ID	D-2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	8:06	0	
END EVO	10:15	1310	
			1310

START ANA	8:42	410	**TOTAL**
END ANA	8:58	510	
			100

INJECT KB-1	8:50	50 ml

START CHASE	10:15	1310	**TOTAL**
STOP CHASE	10:42	1610	
			300

COMMENTS

INJECTION POINT

IP - 27

DATE	9/14/07
FLOW RATE	4.08
PSI	2 of 11
DOSER ID	3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	822	0	
END EVO	10:47	1310	1310

START ANA	9:05	420	TOTAL
END ANA	9:24	520	
			100

INJECT KB-1	9:15	~~8470~~ 500ml

START CHASE	10:47	1310	TOTAL
STOP CHASE	11.16	1610	
			300

COMMENTS	8.24 GPM @ 8:45 slight surface at seal flow REDUCED TO 10.6 GPM

INJECTION POINT

IP - 28

DATE	9/4/07
FLOW RATE	10.43
PSI	25
DOSER ID	D-1
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	8:38	0	
END EVO	11:08	1310	
			1310

START ANA	9:28	475	**TOTAL**
END ANA	9:45	575	
			100

INJECT KB-1	936	500 ml

START CHASE	11:08	1310	**TOTAL**
STOP CHASE	11:34	1650	
			340

COMMENTS

INJECTION POINT

IP - 29

DATE	9/14/07
FLOW RATE	1379
PSI	20
DOSER ID	D5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	9:42	0	
END EVO	11:57	1310	
			1310

START ANA	10:46	425	**TOTAL**
END ANA	11:03	525	
			100

INJECT KB-1	10:55	500 ml

START CHASE	11:~~03~~57	1310	**TOTAL**
STOP CHASE	12:18	1610	
			300

COMMENTS ~ 11:52 INCREASE FLOW TO 1425 GPM
– 10:30 STOP INJECTION DUE TO SURFACING
REDRILL IP-29 AND RESTART AT 10:40

INJECTION POINT

IP - 9t30

DATE	9/14/07
FLOW RATE	9.49
PSI	10
DOSER ID	P4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10:28	0	
END EVO	12:56	1310	
			1310

START ANA	11:19	465	**TOTAL**
END ANA	11:35	565	
			100

INJECT KB-1	11:25	500ml

START CHASE	12:56	1310	**TOTAL**
STOP CHASE	1:29.	1610	
			300

COMMENTS

INJECTION POINT

IP - 31

DATE	9/14/07
FLOW RATE	11
PSI	20
DOSER ID	3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	11:10	~~1310~~ 0	
END EVO	13:41	1310	
			1310

START ANA	12:16	445	**TOTAL**
END ANA	12:34	545	
			100

INJECT KB-1	12:25	~~4590~~ 500ml

START CHASE	13:41	1310	**TOTAL**
STOP CHASE	14:04	1610	
			300

COMMENTS	13:37 > 13,4 @ 25 psi

11:55

INJECTION POINT

IP - 32

DATE	9-14-07
FLOW RATE	6.85
PSI	10
DOSER ID	2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	11:55	0	
END EVO	14:40	1326	
			1326

START ANA	12:43	362	**TOTAL**
END ANA	11:09	462	
			100

INJECT KB-1	12:53	500ml

START CHASE	14:40	1310	**TOTAL**
STOP CHASE	15:08	1610	
			300

COMMENTS	TRANSFER PUMP SLOWS TO 3 GPM FOR ANA WATER

INJECTION POINT

IP - 33

DATE	9/14/07
FLOW RATE	13.47
PSI	20 PSI
DOSER ID	D1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	12:37	0	
END EVO	1418	1310	
			1310

START ANA	13:20	580	**TOTAL**
END ANA	13:35	680	
			100

INJECT KB-1	13:28	500ml

START CHASE	1418	1310	**TOTAL**
STOP CHASE	1439	1610	
			300

COMMENTS >15 gpm @ 12.46 35 psi

INJECTION POINT

IP - 34

DATE	9/14/07
FLOW RATE	14.35
PSI	20
DOSER ID	D5
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	13.17	0	
END EVO	14:52	1310	
			1310

START ANA	13:42	380	**TOTAL**
END ANA	13:57	480	
			100
INJECT KB-1	13:49	500ml	

START CHASE	14:52	1310	**TOTAL**
STOP CHASE	15:12	1612	
			302

COMMENTS

INJECTION POINT

IP - 35

DATE	9/14/07
FLOW RATE	10
PSI	25
DOSER ID	P4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:56	0	
END EVO	16:10~~14:06~~	1330	
			1330

START ANA	14:35	380	**TOTAL**
END ANA	~~14~~ 14:54	480	
			100

INJECT KB-1	14:45	500ml

START CHASE	16:10	1330	**TOTAL**
STOP CHASE	17:02	1842	
			512

COMMENTS

INJECTION POINT

IP - 36

DATE	9/16/07
FLOW RATE	9 gpm
PSI	10psi
DOSER ID	D3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:35	0	
END EVO	16:52	1310	
			1310

START ANA	15:11	340	**TOTAL**
END ANA	15:28	440	
			100

INJECT KB-1	15:18	500ml

START CHASE	16:52	1310	**TOTAL**
STOP CHASE	17:20	1611	
			301

COMMENTS 15:29 change to 10.73 @ 15psi

INJECTION POINT

IP - 37

DATE	9/16/07
FLOW RATE	12
PSI	20
DOSER ID	D1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	15:05	0	
END EVO	16:56	1310	
			310

START ANA	15:37	440	**TOTAL**
END ANA	15:55	540	
			100

INJECT KB-1	15:46	500 ml

START CHASE	16:55	1310	**TOTAL**
STOP CHASE	17:19	1610	
			300

COMMENTS

INJECTION POINT

IP - 38

DATE	9/4/07
FLOW RATE	8.33 / 13.42
PSI	10 / 20
DOSER ID	12
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	15:35	0	
END EVO	16:52	1310	
			1310

START ANA	16:50	570	**TOTAL**
END ANA	17:09	670	
			100

INJECT KB-1	17:00	500ml

START CHASE	16:52	1310	**TOTAL**
STOP CHASE	18:11	1610	
			300

COMMENTS INCREASE TO 13.42 @ 16:09

15:21 @
SAT 16:51

INJECTION POINT

IP -39

DATE	9/14/07
FLOW RATE	12.1
PSI	10
DOSER ID	5
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	15:52	1610	
END EVO	17:41	2920	
			1310

START ANA	16:29	2062	**TOTAL**
END ANA	16:46	2162	
			100

INJECT KB-1	16:38	500ml

START CHASE	17:41	2920	**TOTAL**
STOP CHASE	18:00	3223	
			303

COMMENTS increase to 20 psi

15.6 gpm

INJECTION POINT

IP - 40

DATE	9/17/07
FLOW RATE	14.12
PSI	30
DOSER ID	D-2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:30	0	
END EVO	14:17	1310	
			1360

START ANA	12:58	363	**TOTAL**
END ANA	13:15	463	
			100

INJECT KB-1	1306	500ml

START CHASE	14:17	1310	**TOTAL**
STOP CHASE	14:39	1610	
			300

COMMENTS

INJECTION POINT

IP - 41

DATE	9/7/07
FLOW RATE	15
PSI	20
DOSER ID	P-5
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:45	0	
END EVO	13:29	1310	
			1310

START ANA	13:19	505	**TOTAL**
END ANA	13:38	605	
			100

INJECT KB-1	13:27	500ml

START CHASE	13:29	1310	**TOTAL**
STOP CHASE	1450	1620	
			300

COMMENTS

INJECTION POINT

IP - 42

DATE	9/17/07
FLOW RATE	14.7
PSI	30
DOSER ID	D-3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:09	0	
END EVO	14:50	1350	
			1350

START ANA	13:45	535	**TOTAL**
END ANA	14:01	635	
			100

INJECT KB-1	13:53	50 ml

START CHASE	1450	1350	**TOTAL**
STOP CHASE	15:06	1610	
			260

COMMENTS

INJECTION POINT

IP - 43

DATE	9/17/07
FLOW RATE	14.5
PSI	30
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:17	0	
END EVO	13:47	1310	
			1310

START ANA	13:32	437	**TOTAL**
END ANA	14:48	538	
			100

INJECT KB-1	14:40	50 gal

START CHASE	13:47	1310	**TOTAL**
STOP CHASE	16:09	1610	
			300

COMMENTS	13.2 gpm @ 15:07

INJECTION POINT

IP - 44

DATE	9/17/07
FLOW RATE	18
PSI	30
DOSER ID	D4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	15:00	0	
END EVO	16:32	1310	
			1310

START ANA	13:25	395	**TOTAL**
END ANA	13:41	495	
			100

INJECT KB-1	15:33	500ml

START CHASE	16:28	1310	**TOTAL**
STOP CHASE	16:47	1610	
			300

COMMENTS	@17:20 < flow to 12 gpm Need to refill ANA tank 1542 > flow to 17 gpm

INJECTION POINT

IP - 45

DATE	9/17/07
FLOW RATE	16.89
PSI	30
DOSER ID	2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	16:26	0	
END EVO	16:54	1540	1540

START ANA	16:48	370	**TOTAL**
END ANA	17:04	47	
			100

INJECT KB-1	16:56	50um 1

START CHASE	17:54	1540	**TOTAL**
STOP CHASE	18:51	1610	
			70

COMMENTS Reduce to 11 GPM @ 18:00
Reduce to 3 GPM @ 18:06
DVG to surfacing in adjacent drilled IP

INJECTION POINT

IP - 48

DATE	9/18/07
FLOW RATE	13.5
PSI	30
DOSER ID	D2
EVO VOLUME	~~14.~~ 13.1

	TIME	**GALLONS**	**TOTAL**
START EVO	8:08	0	
END EVO	9:53	1310	
			1310

START ANA	8:31	320	**TOTAL**
END ANA	~~8:38~~ 8:46	420	
			100

INJECT KB-1	8:38	500ml

START CHASE	9:53	1310	**TOTAL**
STOP CHASE	10:12	1610	
			300

COMMENTS 9:10 FLOW 9.13 GPM FULL OPEN
9:15 7 PRESSURE AT HYDRANT
15 GPM

INJECTION POINT

IP - 62

DATE	9/17/07
FLOW RATE	11.2
PSI	20
DOSER ID	D4
EVO VOLUME	13.1

	TIME	**GALLONS**	**TOTAL**
START EVO	7:35	0	
END EVO	9:09	1310	
			1310

START ANA	8:06	358	**TOTAL**
END ANA		4:58	
			100

INJECT KB-1	8:10	500ml

START CHASE	9:09	1310	**TOTAL**
STOP CHASE	9:28	1610	
			300

COMMENTS 7:51 > 30 PSI & 15.4 Gpm

INJECTION POINT

IP - 49

DATE	9/18/07
FLOW RATE	12
PSI	20
DOSER ID	D3
EVO VOLUME	~~13~~ 12.7

	TIME	**GALLONS**	**TOTAL**
START EVO	8:18	0	
END EVO	10:05	1310	1310

START ANA	8:48	400	**TOTAL**
END ANA	9:05	500	
			100

INJECT KB-1		500ml

START CHASE	10:05	1310	**TOTAL**
STOP CHASE	10:26	1625	
			300

COMMENTS	9:10 FULL OPEN 8.8 GPM 9:15 > PRESSURE AT HYDRANT NOW 15 GPM

INJECTION POINT

IP - 50

DATE	9/18/07
FLOW RATE	10.7
PSI	20
DOSER ID	D5
EVO VOLUME	~~14.8~~ 13.8

	TIME	**GALLONS**	**TOTAL**
START EVO	8:31	0	
END EVO	10:30	1310	
			1310

START ANA	9:14	420	**TOTAL**
END ANA	9:30	520	
			100

INJECT KB-1	9:22	500ml

START CHASE	10:30	1310	**TOTAL**
STOP CHASE	10:51	1610	
			300

COMMENTS 9:10 FULL OPEN 7.28 GPM
*START NEW KB-1 VESSEL
9:15 > PRESSURE AT HYDRANT NOW 13 GPM

INJECTION POINT

IP - 46

DATE	9/18107
FLOW RATE	12
PSI	20
DOSER ID	D-1
EVO VOLUME	~~15~~ 14.2

	TIME	**GALLONS**	**TOTAL**
START EVO	8:40	0	
END EVO	10:29	1310	1310

START ANA	9:33	610	**TOTAL**
END ANA	9:49	710	100

INJECT KB-1	9:40	500gal

START CHASE	10:29	1310	**TOTAL**
STOP CHASE	10:48	1610	$300

COMMENTS 9:11 FULL OPEN @ 8:58

INJECTION POINT

IP - 47

DATE	9/18/07
FLOW RATE	11
PSI	20
DOSER ID	P4
EVO VOLUME	~~11.4~~ 13.4

	TIME	**GALLONS**	**TOTAL**
START EVO	8:54	0	
END EVO	10:34	1310	
			1310

START ANA	9:51	730	**TOTAL**
END ANA	9:10:07	830	
			100

INJECT KB-1	9:59	500ml

START CHASE	10:34	1310	**TOTAL**
STOP CHASE	10:57	1610	
			300

COMMENTS 9:10 PULL OPEN @ 8.6 GPM INCREASE TO 13 GPM

INJECTION POINT

IP - 51

DATE	9/18/07
FLOW RATE	12.9 *
PSI	20 *
DOSER ID	D-2
EVO VOLUME	~~14.1~~ 13.1

+ ANA

	TIME	**GALLONS**	**TOTAL**
START EVO	10:43	0	
END EVO	12:21	1310	
			1310

START ANA	11:72	403	**TOTAL**
END ANA	11:29	503	
			100

INJECT KB-1	11:20	300mL

START CHASE	12:21	1310	**TOTAL**
STOP CHASE	12:40	1610	
			300

COMMENTS 7 / 6.5 GPM 30 PSI *

INJECTION POINT

IP - 55

DATE	9/18/07
FLOW RATE	11.4 *
PSI	20 *
DOSER ID	D-3
EVO VOLUME	12.9

	TIME	**GALLONS**	**TOTAL**
START EVO	10:53	0	
END EVO	1231	1310	
			1310

START ANA *	11:34	540	**TOTAL**
END ANA	11:46	640	
			100

INJECT KB-1	11:40	500 ml

START CHASE	12:31	1310	**TOTAL**
STOP CHASE	12:52	1610	
			300

COMMENTS * CHANGE TO CRAFTSMAN TRANSFER PUMP
* 14.6 GMP @ 30 PSI

INJECTION POINT

IP - 52

DATE	9/18/07
FLOW RATE	118
PSI	120
DOSER ID	D5
EVO VOLUME	~~14.8~~ 13.8

+ANA

	TIME	**GALLONS**	**TOTAL**
START EVO	11:17	0	
END EVO	13:17	1310	
			1310

START ANA	11:53	458	**TOTAL**
END ANA	12:05	558	
			100

INJECT KB-1	11:59	500ml

START CHASE	13:17	1310	**TOTAL**
STOP CHASE	13:28	1610	
			301

COMMENTS

INJECTION POINT

IP - 53

DATE	9/18/07
FLOW RATE	14.47
PSI	30
DOSER ID	D1
EVO VOLUME	~~15.2~~ 14.2

+ ANA

	TIME	**GALLONS**	**TOTAL**
START EVO	11:54	0	
END EVO	12:37	1310	
			1310

START ANA	1218	320	**TOTAL**
END ANA	12:29	420	
			100

INJECT KB-1	12:23	500ml

START CHASE	13:37	1310	**TOTAL**
STOP CHASE	13:56	1610	
			300

COMMENTS

INJECTION POINT

IP - 54

DATE	9/18/07
FLOW RATE	11.5 +
PSI	20
DOSER ID	D4
EVO VOLUME	~~14.4~~ 13.4

+ ANA

	TIME	**GALLONS**	**TOTAL**
START EVO	13 03	1610	
END EVO	14:58	2920	
			1310

START ANA	13:41	2030	**TOTAL**
END ANA	13:55	2130	
			100

INJECT KB-1	1348	500 gal

START CHASE	14:58	2920	**TOTAL**
STOP CHASE	15:34	3220	
			300

COMMENTS 16:04 30 PSI / 16:43 APPROVE TO 5 GPM DUE TO BREAKTHROUGH AT ADJACENT BORING

INJECTION POINT

IP - 56

DATE	9/18/07
FLOW RATE	12
PSI	20
DOSER ID	D-2
EVO VOLUME	~~14.1~~ 13.4

+ ANA

	TIME	GALLONS	TOTAL
START EVO	13:38		
END EVO	15:10	1340	
			1340

START ANA *	14:08	370	**TOTAL**
END ANA	14:16	470	
			100

INJECT KB-1	14:14	50ml

START CHASE	15:10	1340	**TOTAL**
STOP CHASE	15:26	1610	
			270

COMMENTS * INSTALL NEW 12 GPM TRANSFER PUMP
14:16 16.55 GPM @ 30 PSI

INJECTION POINT

IP - 57

DATE	9/18/07
FLOW RATE	11
PSI	25
DOSER ID	D5
EVO VOLUME	~~14.6~~ 13.6

+ ANA

	TIME	**GALLONS**	**TOTAL**
START EVO	14:10	0	
END EVO	15:56	1310	
			1310

START ANA	14:57	~~488~~	**TOTAL**
END ANA	15:07	588	

INJECT KB-1	15:02	500ml

START CHASE	15:56	1310	**TOTAL**
STOP CHASE	16:17	1610	
			300

COMMENTS

INJECTION POINT

IP - 58

DATE	9/18/07
FLOW RATE	~~12.68~~
PSI	20
DOSER ID	P-1
EVO VOLUME	~~14.7~~ 13.7

+ ANA

	TIME	**GALLONS**	**TOTAL**
START EVO	14:38	~~6300~~	
END EVO	16:01	1310	1310

START ANA	15:13	630	**TOTAL**
END ANA	15:22	730	100

INJECT KB-1	15:17	50 gal

START CHASE	16:01	1310	**TOTAL**
STOP CHASE	16:22	1610	300

COMMENTS

INJECTION POINT

IP - 59

DATE	9/18/07
FLOW RATE	12
PSI	20
DOSER ID	2
EVO VOLUME	13.1

	TIME	GALLONS	TOTAL
START EVO	15:46	0	
END EVO	1705	1310	
			1310

START ANA	16:16	460	**TOTAL**
END ANA	16.25	560	
			100

INJECT KB-1	16:20	50ml

START CHASE	17.05	1310	**TOTAL**
STOP CHASE	17.26	1610	
			300

COMMENTS	17.17 ORM @ 17:01 PSI = 30

INJECTION POINT

IP - 61

DATE	9/18/07
FLOW RATE	13.95
PSI	30
DOSER ID	B4
EVO VOLUME	13.4

	TIME	**GALLONS**	**TOTAL**
START EVO	16:11	0	
END EVO	1804	1310	
			1310

START ANA	16:50	375	**TOTAL**
END ANA	16:59	475	
			100

INJECT KB-1	16:54	500ml

START CHASE	~~1804+6TO~~	1310	**TOTAL**
STOP CHASE	1832	1610	
			300

COMMENTS	1700 > 12 gpm @ 30 PSI < 3 gpm due to Surfacing

INJECTION POINT

IP -

DATE	
FLOW RATE	
PSI	
DOSER ID	
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO			
END EVO			

START ANA			**TOTAL**
END ANA			

INJECT KB-1		

START CHASE			**TOTAL**
STOP CHASE			

COMMENTS

INJECTION POINT

IP -

DATE	
FLOW RATE	
PSI	
DOSER ID	
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO			
END EVO			

START ANA			TOTAL
END ANA			

INJECT KB-1		

START CHASE			TOTAL
STOP CHASE			

COMMENTS

INJECTION POINT

IP - 60

DATE	9/19/07
FLOW RATE	11
PSI	20
DOSER ID	D5
EVO VOLUME	132

	TIME	**GALLONS**	**TOTAL**
START EVO	7:46	0	
END EVO	9:25	1310	
			1310

START ANA	8:19	465	**TOTAL**
END ANA	8:29	565	
			100

INJECT KB-1	8:24	500gal

START CHASE	9:25	1310	**TOTAL**
STOP CHASE	9:47	1610	
			300

COMMENTS 7:52 STOP TEST DUE TO H2O LEAK
730 PSI 14.5 GPM @ 7:51

INJECTION POINT

IP - 63

DATE	9/19/07
FLOW RATE	14.69
PSI	25
DOSER ID	2
EVO VOLUME	13.1

	TIME	**GALLONS**	**TOTAL**
START EVO	8:13	0	
END EVO	9:52	1310	
			1310

START ANA	8:45	354	**TOTAL**
END ANA	8:54	454	
			100

INJECT KB-1	8:49	500ml

START CHASE	~~10:12~~ 9:52	1310	**TOTAL**
STOP CHASE	10:12	1610	
			1310

COMMENTS

INJECTION POINT

IP - 64

DATE	9/19/07
FLOW RATE	12.7
PSI	20
DOSER ID	D-1
EVO VOLUME	13.5

	TIME	**GALLONS**	**TOTAL**
START EVO	8:25	0	
END EVO	9:58	1310	
			1310

START ANA	9:01	509	**TOTAL**
END ANA	9:11	609	
			100

INJECT KB-1	9:05	500ml

START CHASE	9:58	1310	**TOTAL**
STOP CHASE	10:17	1610	
			300

COMMENTS 8:33 714.91 @ 30 psi

INJECTION POINT

IP - 65

DATE	9/19/07
FLOW RATE	1471
PSI	25
DOSER ID	3
EVO VOLUME	13.9

	TIME	GALLONS	TOTAL
START EVO	8:37	0	
END EVO	~~8:37~~ 10:08	1310	
			1310

START ANA	9:16	585	**TOTAL**
END ANA	9:24	585	
			100

INJECT KB-1	9:20	500ml

START CHASE	10:08	1310	**TOTAL**
STOP CHASE	11:15	1610	
			307

COMMENTS < FLOW TO 3 GPM @ 5PSI DUE TO BACK PRESSURE

INJECTION POINT

IP - 66

DATE	9/19/07
FLOW RATE	11.77
PSI	20
DOSER ID	P4
EVO VOLUME	13.1

	TIME	**GALLONS**	**TOTAL**
START EVO	9:54	0	
END EVO	11:28	1310	
			1310

START ANA	10.26	383	**TOTAL**
END ANA	10:37	483	
			100

INJECT KB-1	10:30	500ml

START CHASE	11:28	1310	**TOTAL**
STOP CHASE	11:49	1610	

COMMENTS

INJECTION POINT

IP - 67

DATE	9/19/07
FLOW RATE	7.48
PSI	10
DOSER ID	125
EVO VOLUME	13.8

	TIME	**GALLONS**	**TOTAL**
START EVO	10:20	0	
END EVO	12:01	1310	
			1317

START ANA	1050	340	**TOTAL**
END ANA	1101	440	
			100

INJECT KB-1	10:55	500ml

START CHASE	12:01	1310	**TOTAL**
STOP CHASE	12:23	1610	
			300

COMMENTS 1037 > 14.1 GPM @ 25 PSI

INJECTION POINT

IP - 68

DATE	9/19/07
FLOW RATE	9.12
PSI	20
DOSER ID	D-2
EVO VOLUME	13.1

	TIME	**GALLONS**	**TOTAL**
START EVO	10:45	0	
END EVO	12:24	1310	
			1310

START ANA	11:18	385	**TOTAL**
END ANA	11:23	485	
			100

INJECT KB-1	11:23	500 ml

START CHASE	12:24	1310	**TOTAL**
STOP CHASE	12:45	1630	
			320

COMMENTS

INJECTION POINT

IP - 69

DATE	9/19/07
FLOW RATE	9.77
PSI	15
DOSER ID	D1
EVO VOLUME	135

	TIME	**GALLONS**	**TOTAL**
START EVO	11:10	6	
END EVO	13:26	1310	
			1310

START ANA	11:42	323	**TOTAL**
END ANA	11:50	415*	
			92

INJECT KB-1	11:46	500ml

START CHASE	1301	1317	**TOTAL**
STOP CHASE	1326	1610	
			293

COMMENTS * TRANSFER PUMP DIED

INJECTION POINT

IP - 70

DATE	9/18/07
FLOW RATE	11.0
PSI	20
DOSER ID	D3
EVO VOLUME	125

	TIME	GALLONS	TOTAL
START EVO	1128	0	
END EVO	1310	1360	
			1360

START ANA	12:26	680	**TOTAL**
END ANA		780	

INJECT KB-1	1230	500ml

START CHASE			**TOTAL**
STOP CHASE	1326	1610	

COMMENTS

INJECTION POINT

IP - 71

DATE	9/18/07
FLOW RATE	11.5
PSI	20
DOSER ID	D4
EVO VOLUME	13.1

	TIME	**GALLONS**	**TOTAL**
START EVO	12:03	0	
END EVO		1317	
			1310

START ANA	12:39	4;43	**TOTAL**
END ANA	12:48	5:47	
			100

INJECT KB-1	12:43	500 ml

START CHASE	13:35	1317	**TOTAL**
STOP CHASE	13:52	1617	
			300

COMMENTS

INJECTION POINT

IP - 72

DATE	9/18/07
FLOW RATE	11.4
PSI	15
DOSER ID	D5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	12:53	0	
END EVO	15:20	1310	
			1310

START ANA	1325	340	**TOTAL**
END ANA	1332	440	
			10

INJECT KB-1	13:28	500ml

START CHASE	15:20	1310	**TOTAL**
STOP CHASE	16:12	1610	
			300

COMMENTS

INJECTION POINT

IP - 73

DATE	9/19/07
FLOW RATE	12.
PSI	20
DOSER ID	D-2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:17	0	
END EVO	16:57	1320	
			1320

START ANA	13:42	342	**TOTAL**
END ANA *	13:54	442	
			100

INJECT KB-1	1348	500ml

START CHASE	16:51	1320	**TOTAL**
STOP CHASE	16:24	1610	
			290

COMMENTS
CUT FLOW IN HALF DUE TO SERVICING

INJECTION POINT

IP -~~7~~4

DATE	9/19/07
FLOW RATE	1.78
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	14:04	0	
END EVO	16:00	1310	
			1310

START ANA	14:32	P337	**TOTAL**
END ANA	14:43	~~437~~ 450	
			105

INJECT KB-1	14:37	500ml

START CHASE	16:00	1310	**TOTAL**
STOP CHASE	16:28	1610	
			300

COMMENTS 13:26 > 30 PSI @ 13.6 GPM

INJECTION POINT

IP - 75

DATE	9/19/07
FLOW RATE	12.36
PSI	20
DOSER ID	P-3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	14:13	0	
END EVO	16:53	1310	
			1310

START ANA	14:47	380	**TOTAL**
END ANA	14:52	480	
			100

INJECT KB-1	14:52	500 ml

START CHASE	16:53	1310	**TOTAL**
STOP CHASE			

COMMENTS

INJECTION POINT

IP - 76

DATE	9/14/07
FLOW RATE	10.84
PSI	20
DOSER ID	D4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	1432	0	
END EVO	16:51	1330	
			1330

START ANA	15:11	440	**TOTAL**
END ANA	13:21	540	
			100

INJECT KB-1	15:16	500 ml

START CHASE	16:51	1330	**TOTAL**
STOP CHASE	17:16	1610	

COMMENTS

INJECTION POINT

IP - 77

DATE	9-20-07
FLOW RATE	1200 gallons
PSI	20
DOSER ID	D-2
EVO VOLUME	13.2

	TIME	**GALLONS**	**TOTAL**
START EVO	7:40am	0	
END EVO	9:29	1310	

START ANA	8:11	398	**TOTAL**
END ANA	8:23	498	

INJECT KB-1	8:17	50 gal

START CHASE	9:29	1310	**TOTAL**
STOP CHASE	9:52	1610	

COMMENTS 7.54 > 13.6 gpm @ 20 psi

INJECTION POINT

IP - 78

DATE	9/20/07
FLOW RATE	13.05
PSI	15
DOSER ID	D-1
EVO VOLUME	~~1310~~ 13.6

	TIME	GALLONS	TOTAL
START EVO	7:59	0	
END EVO	9:50	1310	
			1310

START ANA	8:29	375	**TOTAL**
END ANA	8:40	475	
			100

INJECT KB-1	8:35	500ML

START CHASE	9:50	1310	**TOTAL**
STOP CHASE	10:14	1610	
			300

COMMENTS

INJECTION POINT

IP - 79

DATE	9/20/07
FLOW RATE	14
PSI	25
DOSER ID	175
EVO VOLUME	13.4

	TIME	**GALLONS**	**TOTAL**
START EVO	8:12	0	
END EVO	9:58	1310	0
			1310

START ANA	8:45	442	**TOTAL**
END ANA	8:55	542	
			100

INJECT KB-1	8:51	500 ML

START CHASE	9:57	1310	**TOTAL**
STOP CHASE	10:20	1610	

COMMENTS 10103 > 12.68 @ 20 PSI

1.2
3.73

INJECTION POINT

IP - 80

DATE	9/20/07
FLOW RATE	5.21
PSI	5
DOSER ID	D-3
EVO VOLUME	13.1

3.84

	TIME	**GALLONS**	**TOTAL**
START EVO	8:27	0	
END EVO	12:00	1342 *	
			1342

START ANA	9:12	358	**TOTAL**
END ANA	9:34	458	

INJECT KB-1	9:23	500mL

START CHASE	12:00	1342	**TOTAL**
STOP CHASE	12:24	~~1600~~ 1613	
			271 *

COMMENTS - minor break-through - reduced pressure / flow; added extra bentonite seal at surface

* ADDED ADDITIONAL EVO

INJECTION POINT

IP - 81

DATE	9/20/07
FLOW RATE	12.96
PSI	20
DOSER ID	D4
EVO VOLUME	14.4

	TIME	**GALLONS**	**TOTAL**
START EVO	8:40	0	
END EVO	10:23	1310	

START ANA	9:38	624	**TOTAL**
END ANA	9:45	724	

INJECT KB-1	9:42	500 mL

START CHASE	10:23	1310	**TOTAL**
STOP CHASE	10:24	1620	

COMMENTS

INJECTION POINT

IP - 82

DATE	9/19/07
FLOW RATE	9
PSI	10
DOSER ID	176
EVO VOLUME	138

	TIME	**GALLONS**	**TOTAL**
START EVO	9:10	0	
END EVO	10:52	1312	
			1312

START ANA	950	420	**TOTAL**
END ANA	~~9~~ 10:00	520	
			100

INJECT KB-1	9:56	500 mL

START CHASE	10:52	1312	**TOTAL**
STOP CHASE	11:11	1610	
			298

COMMENTS 9.25 GPM @ 9:48 PSI 20

INJECTION POINT

IP - 83

DATE	9/20/07
FLOW RATE	9.7
PSI	20
DOSER ID	D7
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	10:00	0	
END EVO	11:53	1310	
			1310

START ANA	10:39	399	**TOTAL**
END ANA	~~10:44~~ JF 10:49	499	
			100

INJECT KB-1	10:44	500 mL

START CHASE	11:53	1310	**TOTAL**
STOP CHASE	12:15	1619	

COMMENTS >15 Gpm @ 30 PSI 11:29

INJECTION POINT

IP - 84

DATE	9/20/07
FLOW RATE	10.8
PSI	15
DOSER ID	17-1
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10:33	0	
END EVO	12:25	~~13:10~~ OB 1310	

START ANA	11:05	356	**TOTAL**
END ANA	11:16	456	

INJECT KB-1	11:09	500mL

START CHASE	12:25	1310	**TOTAL**
STOP CHASE	12:47	1610	

COMMENTS

INJECTION POINT

10:25

IP - 85

DATE	09/20/07
FLOW RATE	7.81
PSI	12
DOSER ID	D2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	10:30	0	
END EVO	12:31	1312	

START ANA	11:20	492	TOTAL
END ANA	11:32	592	

INJECT KB-1	11:27	500 mL

START CHASE	12:31	1312	TOTAL
STOP CHASE	12:51	1610	

COMMENTS > flow 12.46 @ 25 PSI
> 12.27 GPM @ 30 PSI @ 12:11

INJECTION POINT

IP - 86

DATE	9/20/07
FLOW RATE	12
PSI	10
DOSER ID	D5
EVO VOLUME	133

	TIME	**GALLONS**	**TOTAL**
START EVO	10:55	0	
END EVO	12:40	1310	
			1310

START ANA	11:40	579	**TOTAL**
END ANA	11:50	679	
			100

INJECT KB-1	11:46	500 mL

START CHASE	12:40	1310	**TOTAL**
STOP CHASE	13:05	1610	
			300

COMMENTS 12:13 FLOW @ 13.5 GPM @ 20 PSI

INJECTION POINT

1243

IP - 87

DATE	9-20-07
FLOW RATE	7.82
PSI	10
DOSER ID	D7
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:43	0	
END EVO	15:06	1310	

START ANA	13:30	367	**TOTAL**
END ANA	13:45	467	

INJECT KB-1	13:38	500mL	(@417)

START CHASE	15:06	1310	**TOTAL**
STOP CHASE	15:34		

COMMENTS

INJECTION POINT

IP - 88

DATE	9/20/07
FLOW RATE	13.5
PSI	25
DOSER ID	D4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	11:30	0	
END EVO	13:20	1310	

START ANA	12:05	434	**TOTAL**
END ANA	12:14	534	

INJECT KB-1	12:08	500 mL

START CHASE	13:20	1310	**TOTAL**
STOP CHASE	13:50	1610	

COMMENTS

INJECTION POINT

IP - ~~89~~ 10 D

DATE	9/20/07
FLOW RATE	12.
PSI	10
DOSER ID	D6
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:22	0	
END EVO	14:00	1327	

START ANA	12:59	479	**TOTAL**
END ANA	13:07	579	

INJECT KB-1	13:03	500mL

START CHASE	14:00	1327	**TOTAL**
STOP CHASE	14:19	1614	

COMMENTS	12.94 GPM @ 1:27 PM 20

INJECTION POINT

IP - 90

DATE	9/20/07
FLOW RATE	10
PSI	10
DOSER ID	D3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:21	0	
END EVO	15:26	1310	

START ANA	14:10	512	**TOTAL**
END ANA	14:23	612	

INJECT KB-1	14:16	500mL	(@ 562)

START CHASE	15:26	1310	**TOTAL**
STOP CHASE	15:51	1610	

COMMENTS

INJECTION POINT

IP - 91

DATE	9/20/07
FLOW RATE	11
PSI	10
DOSER ID	D-5
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	13:53	0	
END EVO	15:35	1317	

START ANA	14:39	~~0~~ ~~630~~ 630	**TOTAL**
END ANA	14:50	730	

INJECT KB-1	14:45	500 ml

START CHASE	15:35	1317	**TOTAL**
STOP CHASE	15:57	1610	

COMMENTS START NEW KB1 WATER TV4

INJECTION POINT

IP - 92

DATE	9/20/07
FLOW RATE	13
PSI	20
DOSER ID	P4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	14:39	0	
END EVO	16:28	1310	

START ANA	15:15	425	**TOTAL**
END ANA	15:25	525	

INJECT KB-1	15:19	500 mL	(@ 475)

START CHASE	16:28	1310	**TOTAL**
STOP CHASE	16:55	1610	

COMMENTS

INJECTION POINT

IP - 93

DATE	09/20/07
FLOW RATE	14
PSI	15
DOSER ID	D-6
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	14:53	0	
END EVO	16:24	1310	

START ANA	15:28	521	**TOTAL**
END ANA	15:37	621	

INJECT KB-1	15:33	500mL	(@ 571)

START CHASE	16:24	1310	**TOTAL**
STOP CHASE	16:50	1610	

COMMENTS

INJECTION POINT

IP - 94

DATE	9/20/07
FLOW RATE	12
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	14:35	0	
END EVO	16:21	1310	

START ANA	14:55	340	**TOTAL**
END ANA	15:06	440	

INJECT KB-1	15:01	500 mL	(@ 390)

START CHASE	16:21	1310	**TOTAL**
STOP CHASE	16:51	1614	

COMMENTS

INJECTION POINT

IP - 95

DATE	09/20/07
FLOW RATE	~~12~~ SF 12.5
PSI	20
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	15:38	0	
END EVO	17:19	1310	

START ANA	16:04	326	**TOTAL**
END ANA	16:12	426	

INJECT KB-1	16:08	500ML	(@376)

START CHASE	17:19	1310	**TOTAL**
STOP CHASE	17:37	1610	

COMMENTS

INJECTION POINT

IP - 96

DATE	9/20/07
FLOW RATE	12.5
PSI	20
DOSER ID	D7
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	~~14:06~~ SF 16:06	0	
END EVO	17:36	1310	

START ANA	16:33	320	**TOTAL**
END ANA	16:~~38~~42 SF	~~50~~ SF 420	

INJECT KB-1	16:38	500mL	(@ 370)

START CHASE	17:36	1310	**TOTAL**
STOP CHASE	17:52	1610	

COMMENTS

INJECTION POINT

IP - 97

DATE	9/21/07
FLOW RATE	13
PSI	15
DOSER ID	D-2
EVO VOLUME	133

	TIME	**GALLONS**	**TOTAL**
START EVO	7:15	0	
END EVO	9:02	1310	
			1310

START ANA	7:42	356	**TOTAL**
END ANA	7:54	456	

INJECT KB-1	7:48	500mL	(@406)

START CHASE	9:02	1310	**TOTAL**
STOP CHASE	9:24	1610	
			300

COMMENTS 7 14.4 gpm @ 8:43 PSI 20

INJECTION POINT

IP - 98

DATE	9/21/07
FLOW RATE	14
PSI	30
DOSER ID	D-4
EVO VOLUME	133

	TIME	GALLONS	TOTAL
START EVO	7:30	♡	
END EVO	9:13	1310	
			1310

START ANA	8:00	420	**TOTAL**
END ANA	8:12	520	

INJECT KB-1	8:06	500mL	(@470)

START CHASE	9:13	1310	**TOTAL**
STOP CHASE	9:37	1630	
			300

COMMENTS

INJECTION POINT

IP - 99

DATE	9/21/07
FLOW RATE	13
PSI	20
DOSER ID	D-7
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	7:44	0	
END EVO	9:28	1310	

START ANA	8:17	404	**TOTAL**
END ANA	8:26	504	

INJECT KB-1	8:21	500mL	(@454)

START CHASE	9:28	1310	**TOTAL**
STOP CHASE	9:49	1618	

COMMENTS 7: 14.2 GPM @ 25 PSI @ 8:54

INJECTION POINT

IP - ~~100~~ 12

DATE	9/21/07
FLOW RATE	1.77
PSI	20
DOSER ID	D-1
EVO VOLUME	13.7

	TIME	GALLONS	TOTAL
START EVO	7:55	0	
END EVO	9:40	1310	

START ANA	8:37	498	**TOTAL**
END ANA	8:46	598	

INJECT KB-1	8:41	500 mL	(@ 548)

START CHASE	9:40	1310	**TOTAL**
STOP CHASE	10:00	1610	

COMMENTS 13.2 @ 8:55 @ 20 PSI

INJECTION POINT

IP - 101

DATE	9/21/07
FLOW RATE	12.53
PSI	20
DOSER ID	D-5
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	8:06	0	
END EVO	9:55	1310	

START ANA	8:49	508	**TOTAL**
END ANA	8:59	608	

INJECT KB-1	8:54	500ML	(@558)

START CHASE	9:55	1310	**TOTAL**
STOP CHASE	10:17	1610	

COMMENTS

INJECTION POINT

IP - 102

DATE	9/21/07
FLOW RATE	13
PSI	20
DOSER ID	D-6
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	8:27	0	
END EVO	10:01	1316	

START ANA	9:03	496	**TOTAL**
END ANA	9:12	596	

INJECT KB-1	9:07	500mL	(@ 546)

START CHASE	10:01	1316	**TOTAL**
STOP CHASE	10:18	1610	

COMMENTS

INJECTION POINT

IP - 103

DATE	9/21/07
FLOW RATE	12.66
PSI	20
DOSER ID	D3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	8:36	0	
END EVO	11:21	1315	

START ANA	9:20	395	**TOTAL**
END ANA	9:36	495	

INJECT KB-1	9:27	500 ML	(@ 445)

START CHASE	11:21	1315	**TOTAL**
STOP CHASE	11:58	1610	

COMMENTS

INJECTION POINT

IP - 104

DATE	9/21/07
FLOW RATE	10.6
PSI	20
DOSER ID	D2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	9:44	0	
END EVO	11:30	1312	

START ANA	10:14	358	**TOTAL**
END ANA	10:24	458	

INJECT KB-1	10:20	500 mL	(@ 408)

START CHASE	11:30	1312	**TOTAL**
STOP CHASE	11:53	1610	

COMMENTS

INJECTION POINT

IP - 105

DATE	9/21/07
FLOW RATE	12.4
PSI	25
DOSER ID	D-4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10:04	0	
END EVO	11:43	1342	

START ANA	10:30	378	**TOTAL**
END ANA	10:41	478	

INJECT KB-1	10:38	500mL	(@ 428)

START CHASE	11:43	1342	**TOTAL**
STOP CHASE	12:03	1614	

COMMENTS

INJECTION POINT

IP - 106

DATE	9/21/07
FLOW RATE	13.75
PSI	20
DOSER ID	D-1
EVO VOLUME	D 15

	TIME	**GALLONS**	**TOTAL**
START EVO	10:32	0	
END EVO	12:24	1336	

START ANA	11:33	605	**TOTAL**
END ANA	11:42	705	

INJECT KB-1	11:38	500 ML	(@655)

START CHASE	12:24	1336	**TOTAL**
STOP CHASE	12:48	1681	

COMMENTS

INJECTION POINT

IP - 107

DATE	9/21/07
FLOW RATE	14
PSI	20
DOSER ID	D-7
EVO VOLUME	13.4

	TIME	**GALLONS**	**TOTAL**
START EVO	11:38	0	
END EVO	13:1	1310	
			1310

START ANA	12:01	327	**TOTAL**
END ANA	12:11	427	
			100

INJECT KB-1	12:06	500ML	(@397)

START CHASE	13:11	1310	**TOTAL**
STOP CHASE	13:31	610	
			300

COMMENTS	7 16 GPM @ 12:20 PSI + 25

INJECTION POINT

IP - 108

DATE	9/21/07
FLOW RATE	11.8
PSI	20
DOSER ID	D-5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	11:49	0	
END EVO	13:29	1310	
			1310

START ANA	12:16	361	**TOTAL**
END ANA	12:26	461	
			100

INJECT KB-1	12:20	500mL	(@ 911)

START CHASE	13:29	1310	**TOTAL**
STOP CHASE	13:53	1610	
			300

COMMENTS

INJECTION POINT

IP - 109

DATE	9/21/07
FLOW RATE	13.8
PSI	20
DOSER ID	D-6
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	12:04	6	
END EVO	13:37	1310	
			1310

START ANA	12:31	380	**TOTAL**
END ANA	12:44	480	
			100

INJECT KB-1	12:38	500mL	(@ 430)

START CHASE	13:37	1310	**TOTAL**
STOP CHASE	13:57	1610	
			300

COMMENTS

INJECTION POINT

IP - 110

DATE	9/21/07
FLOW RATE	11
PSI	22
DOSER ID	D-2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:45	0	
END EVO	14:34	1317	

START ANA	13:11	330	**TOTAL**
END ANA	13:22	430	

INJECT KB-1	13:16	500 mL	(@ 380)

START CHASE	14:34	1317	**TOTAL**
STOP CHASE	14:53	1610	

COMMENTS > 1317 @ 14:06 25

INJECTION POINT

IP - 111

DATE	9/21/07
FLOW RATE	10.4
PSI	20
DOSER ID	D-3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:55	0	
END EVO	14:43	1331	

START ANA	13:31	365	**TOTAL**
END ANA	13:41	465	

INJECT KB-1	13:36	500mL	(@415)

START CHASE	14:43	1331	**TOTAL**
STOP CHASE	15:00	1610	

COMMENTS

INJECTION POINT

IP - ~~#2~~ (F) 11

DATE	9/21/07
FLOW RATE	12:43
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:13	0	
END EVO	15:31	1310	

START ANA	13:52	505	**TOTAL**
END ANA	14:01	605	

INJECT KB-1	13:57	500 mL	(@ 555)

START CHASE	15:31	1310	**TOTAL**
STOP CHASE	15:58	1610	

COMMENTS

INJECTION POINT

IP - 113

DATE	9/21/07
FLOW RATE	13.5
PSI	20
DOSER ID	D-4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	13:23	0	
END EVO	15:02	1310	

START ANA	14:11	578	**TOTAL**
END ANA	14:20	678	

INJECT KB-1	14:15	500 mL	(628)

START CHASE	15:02	1310	**TOTAL**
STOP CHASE	15:20	1610	

COMMENTS

INJECTION POINT

IP - 114

DATE	9/21/07
FLOW RATE	~~0 - 7~~ 12.3
PSI	20
DOSER ID	D7
EVO VOLUME	135

	TIME	**GALLONS**	**TOTAL**
START EVO	13:41	0	
END EVO	8:50	1310	
	9/24/07 8:22	1140	1310

START ANA	14:31	481	**TOTAL**
END ANA	15:00	581	
			100

INJECT KB-1	14:45	500mL	(@531)

9/24/07

START CHASE	8:50 9/23/07	0	**TOTAL**
STOP CHASE	10:23 9/24/07	300	
			~~300~~

(at 16:11)

COMMENTS 1140 gal - stop pumping on 9/21/07 - causing surfacing nearby, will continue on Monday.

170

INJECTION POINT

IP - 115

DATE	4/24/07
FLOW RATE	12.8
PSI	20
DOSER ID	D-2
EVO VOLUME	13.1

	TIME	**GALLONS**	**TOTAL**
START EVO	8:20	0	
END EVO	9:57	1310	
			1310

START ANA	8:51	382	**TOTAL**
END ANA	9:02	482	
			100

INJECT KB-1	8:56	50ml	@432

START CHASE	9:57	1310	**TOTAL**
STOP CHASE	10:19	1610	
			307

COMMENTS	> 16 Gpm 30 psi @ 9:02 < 13.97 Gpm 23 psi @ 9:36

INJECTION POINT

IP - 116

DATE	9/24/07
FLOW RATE	10.96
PSI	15
DOSER ID	D-3
EVO VOLUME	13.7

	TIME	GALLONS	TOTAL
START EVO	8141	0	
END EVO	1059	1310	
			1310

START ANA	912	323	**TOTAL**
END ANA	926	423	
			100

INJECT KB-1	920	500ML	@ 383

START CHASE	1059	1310	**TOTAL**
STOP CHASE	11:33	1610	
			300

COMMENTS >12 GPM @ 8:53 PSI
<9 GM @ 10:11 12 PSI

INJECTION POINT

IP - 117

DATE	9/24/07
FLOW RATE	12.5
PSI	15
DOSER ID	D-5
EVO VOLUME	13.4

	TIME	GALLONS	TOTAL
START EVO	9:04	0	~~0~~
END EVO	1057	1310	~~1300~~ 1310

START ANA	933	325	**TOTAL**
END ANA	943	462	
			100

INJECT KB-1	939	~~586~~ 500 mL	366

START CHASE	1057	1310	**TOTAL**
STOP CHASE	1121	1610	
			300

COMMENTS 7.13 GPM @ 1012.5 PSI 20

INJECTION POINT

IP - 118

DATE	9/24/07
FLOW RATE	12.13
PSI	20
DOSER ID	D-4
EVO VOLUME	132

	TIME	**GALLONS**	**TOTAL**
START EVO	9:16	0	
END EVO	11:05	1310	
			1310

START ANA	950	374	**TOTAL**
END ANA	1000	478	
			200

		500mL	
INJECT KB-1	956	~~428~~	3428

START CHASE	11:05	1310	**TOTAL**
STOP CHASE	11:31	1630	
			320

COMMENTS 7 13.12 gpm @ pi27 psi -22

INJECTION POINT

IP - 119

DATE	9/24/07
FLOW RATE	1
PSI	20
DOSER ID	D-1
EVO VOLUME	14

	TIME	**GALLONS**	**TOTAL**
START EVO	937	0	
END EVO	1118	1310	
			1310

START ANA	1005	~~3~~ 358	**TOTAL**
END ANA	1015	458	
			100

INJECT KB-1	10:09	500 mL	@ 408

START CHASE	1118	1310	**TOTAL**
STOP CHASE	1141	1610	
			300

COMMENTS	> 12.6 Gm @ 25 PSI @ 9:45 > 14

INJECTION POINT

IP - 120

DATE	9/24/07
FLOW RATE	11.67
PSI	25
DOSER ID	D-7
EVO VOLUME	13.4

	TIME	**GALLONS**	**TOTAL**
START EVO	10.03	0	
END EVO	11:37	1310	
			1310

START ANA	1033	373	**TOTAL**
END ANA	1042	473	
			100

INJECT KB-1	1037	500 mL	423

START CHASE	11.37	1310	**TOTAL**
STOP CHASE	11:57	1610	
			300

COMMENTS	> 14.5 GPM @ 10:42 PSI 22

INJECTION POINT

IP - 121

DATE	9/24/07
FLOW RATE	12.16
PSI	18
DOSER ID	P-2
EVO VOLUME	13.1

	TIME	**GALLONS**	**TOTAL**
START EVO	10:43	0	
END EVO	1216	1310	1310

START ANA	1112	354	**TOTAL**
END ANA	1121	454	
			100

INJECT KB-1	1117	500 ML	0404

START CHASE	12:16	1310	**TOTAL**
STOP CHASE	1235	1610	
			300

COMMENTS	717 [illegible] @ 12:15 PSI - 27

INJECTION POINT

IP - 122

DATE	9/24/07
FLOW RATE	13.2
PSI	20
DOSER ID	6
EVO VOLUME	13.8

	TIME	**GALLONS**	**TOTAL**
START EVO	11:20	0	
END EVO	1254	1310	

START ANA	11:48	400	**TOTAL**
END ANA	1158	500	
			100

INJECT KB-1	11:53	200ml	@ 450

START CHASE	1254	1310	**TOTAL**
STOP CHASE	1315	1610	
			300

COMMENTS

INJECTION POINT

IP - 123

DATE	9/24/07
FLOW RATE	12.71
PSI	20
DOSER ID	5
EVO VOLUME	13.4

	TIME	GALLONS	TOTAL
START EVO	11:42	0	
END EVO	1319	1310	1310

START ANA	1208	352	**TOTAL**
END ANA	1218	452	
			100

INJECT KB-1	1213	500 mL	@402

START CHASE	1319	1310	**TOTAL**
STOP CHASE	13139	1610	
			300

COMMENTS

12.70

INJECTION POINT

IP - 124

DATE	9/24/07
FLOW RATE	12.84
PSI	20
DOSER ID	4
EVO VOLUME	13.2

	TIME	**GALLONS**	**TOTAL**
START EVO	1202	0	
END EVO	1401	310	
			300

START ANA	1244	325	**TOTAL**
END ANA	1254	425	
			100

INJECT KB-1	1249	500 mL	@375

START CHASE	1401	310	**TOTAL**
STOP CHASE	1446	1620	
			320

COMMENTS

INJECTION POINT

IP - 125

DATE	9/24/07
FLOW RATE	10.35
PSI	15
DOSER ID	3
EVO VOLUME	137

	TIME	**GALLONS**	**TOTAL**
START EVO	12:28	0	
END EVO	14:21	130	
			130

START ANA	1300	367	**TOTAL**
END ANA	1317	467	
			100

INJECT KB-1	1306	500mL	@417

START CHASE	14:21	130	**TOTAL**
STOP CHASE	16:46	160	
			300

COMMENTS

INJECTION POINT

IP - 126

DATE	9/24/07
FLOW RATE	12.58
PSI	15
DOSER ID	D-2
EVO VOLUME	131

	TIME	**GALLONS**	**TOTAL**
START EVO	1325	~~0 31.55~~	
END EVO	13:27	1278	
			1310+

1344
3/44
SOP

START ANA	14:17	465	**TOTAL**
END ANA			

INJECT KB-1	14:24	500ml	8515

START CHASE	15:27	1278	**TOTAL**
STOP CHASE	15 52	1578	
			300

COMMENTS ~~0~~ 31.55 gallons display cleared 2.5 with start pump began a meter ~31.55 gallons off added approx H_2O @ ~288 gallons

INJECTION POINT

IP - 127

DATE	9/24/07
FLOW RATE	1118
PSI	20
DOSER ID	D-1
EVO VOLUME	13.7

	TIME	**GALLONS**	**TOTAL**
START EVO	14:16	0	
END EVO	16:00	1310	

START ANA	14:44	348	**TOTAL**
END ANA	14:53	448	

INJECT KB-1	14:48	500 mL	@ 398

START CHASE	16:00	1310	**TOTAL**
STOP CHASE	16:27	1611	
			301

COMMENTS	713.3 gpm @ 14:54 psi ZZ

INJECTION POINT

IP - 128

DATE	4/24/07
FLOW RATE	11.11
PSI	20
DOSER ID	7
EVO VOLUME	13.5

	TIME	**GALLONS**	**TOTAL**
START EVO	14:51	0	
END EVO	16:30	130	
			130

~~1514~~ 1519

START ANA	~~1514~~ 1519	354	**TOTAL**
END ANA	1529	454	
			100

INJECT KB-1	1524	500 mL	@ 404

START CHASE	16:37	130	**TOTAL**
STOP CHASE	1652	1610	
			300

COMMENTS 7 ~~13.6~~ 14.5 GPM @ 15:30 @ 25 PSI

INJECTION POINT

IP - 129

DATE	9/24/07
FLOW RATE	12.38
PSI	20
DOSER ID	D-5
EVO VOLUME	13.4

	TIME	**GALLONS**	**TOTAL**
START EVO	1522	0	
END EVO	17:01	1330	
			1330

START ANA	1551	325	**TOTAL**
END ANA	~~15~~ 1600	425	
			100

INJECT KB-1	1555	500 mL	@375

START CHASE	17:01	1330	**TOTAL**
STOP CHASE	17:26	1630	
			300

COMMENTS

INJECTION POINT

IP - 4

DATE	9/24/07
FLOW RATE	1191
PSI	20
DOSER ID	4
EVO VOLUME	132

	TIME	GALLONS	TOTAL
START EVO	15:35	~~451~~ 0	
END EVO	17:22	1310	
			1310

START ANA	1609	401 ~~405~~	**TOTAL**
END ANA	1621	~~501~~ 511	
			100

INJECT KB-1	1615	500 mL	@45

START CHASE	17:22	1310	**TOTAL**
STOP CHASE	18:40	1610	
			300

COMMENTS > 13 ≤ GPM @ 16:23 22 PSI

INJECTION POINT

IP - 130

DATE	9/24/07
FLOW RATE	12.73
PSI	20
DOSER ID	6
EVO VOLUME	13.8

	TIME	GALLONS	TOTAL
START EVO	~~15:47~~ 16:00	0	
END EVO		1310	
			1310

START ANA	1628	322	**TOTAL**
END ANA	1637	422	
			100

INJECT KB-1	1632	500 mL	@372

START CHASE	18:43	1310	**TOTAL**
STOP CHASE	18:20	1610	
			300

COMMENTS

INJECTION POINT

IP -

DATE	
FLOW RATE	
PSI	
DOSER ID	
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO			
END EVO			

START ANA			TOTAL
END ANA			

INJECT KB-1		

START CHASE			TOTAL
STOP CHASE			

COMMENTS

INJECTION POINT

IP - 131

DATE	9/25/17
FLOW RATE	13.21
PSI	25
DOSER ID	D-5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	7:36	0	
END EVO	9:09	1310	
			1310

START ANA	803	337	**TOTAL**
END ANA	812	437	
			100

INJECT KB-1	808	500mL	@387

START CHASE	9:09	1310	**TOTAL**
STOP CHASE	9:30	1610	
			300

COMMENTS > 14.25 GPM @ 8:17 PSI = 30

INJECTION POINT

IP - 5

DATE	9/25/07
FLOW RATE	13
PSI	20
DOSER ID	D-4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	8:02	0	
END EVO	855	428	428
			-

START ANA	828	328	**TOTAL**
END ANA	~~844~~ 855	428	
			100

INJECT KB-1	844	500 mL	@378

START CHASE	—	—	**TOTAL**
STOP CHASE	—	—	
			0

COMMENTS 7 15.7 GPM @ 8M 30
Shut TV-8

INJECTION CONCLUDED AT 428 DUE TO OFF-LINE BREAKTHROUGH

INJECTION POINT

IP - 8

DATE	9/25/07
FLOW RATE	13.5
PSI	30
DOSER ID	D-6
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	8:12	0	
END EVO	10 00	1310	
			1310

START ANA	858	431	**TOTAL**
END ANA	907	539	
			100

INJECT KB-1	903	500 mL	@489

START CHASE	10.00	1310	**TOTAL**
STOP CHASE	10:24	1310	
			1310

COMMENTS ~~858~~ 845 GPM TO ALLOW KB-1 INJECTION @ 917
~~858~~ Flow increased to Full (11.12 gpm)

INJECTION POINT

IP - 100

DATE	9/25/07
FLOW RATE	11.39
PSI	12
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	8:48	0	
END EVO	10:36	1310	
			1310

START ANA	921	355	**TOTAL**
END ANA	930	455	
			100

INJECT KB-1	926	500mL	@405

START CHASE	10:36	1710	**TOTAL**
STOP CHASE	11:00	1610	
			~~1630~~

COMMENTS

INJECTION POINT

IP - 112

DATE	9/25/07
FLOW RATE	11.44
PSI	20
DOSER ID	7
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	9:01	0	
END EVO	11:02	1312	
			1312

START ANA	944	414	**TOTAL**
END ANA	959	514	
			100

INJECT KB-1	954	500 ml	464

START CHASE	11:02	1312	**TOTAL**
STOP CHASE	11:27	1809	
			397

COMMENTS @934 rate of EVO dropped to 2 gpm while ANA tank filled
@ 949 set open full (11.75)

INJECTION POINT

IP - 132

DATE	9/25/07
FLOW RATE	10.17
PSI	15
DOSER ID	D3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	9:18	0	
END EVO	1115	1310	1310

START ANA	1006	421	**TOTAL**
END ANA	~~1012~~ 1015	521	
			100

INJECT KB-1	1012	500 mL	471

START CHASE	11:15	1310	**TOTAL**
STOP CHASE	1141	1610	
			300

COMMENTS

INJECTION POINT

IP - 133

DATE	9/25/07
FLOW RATE	11.1
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	9:31	0	
END EVO	11:33	1310	1310

START ANA	1019	422	**TOTAL**
END ANA	1028	522	
			100

INJECT KB-1	1024	500mL	C472

START CHASE	1133	1310	**TOTAL**
STOP CHASE	11:58	1620	
			300

COMMENTS

start 9:46

INJECTION POINT

IP - 89

DATE	9-25-07
FLOW RATE	9.22
PSI	20
DOSER ID	D4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	9:40	0	
END EVO	11:20	1310	
			1310

START ANA	1032	760	**TOTAL**
END ANA	1043	860	
			100

INJECT KB-1	1038	500mL	@810

START CHASE	11:20	1310	**TOTAL**
STOP CHASE	11:46	1610	
			300

COMMENTS	23.81 GPM @ 10:15 TO ALLOW ANA/KB-1 INJECTION TO CATCH UP 712 GPM @ 10:43 PSI. 30

INJECTION POINT

10:05 start

IP - 38

DATE	9-25-07
FLOW RATE	10-33
PSI	30
DOSER ID	D5
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10.05	0	
END EVO	1154	1310	1310

START ANA	1024	417	**TOTAL**
END ANA	1051	517	
			100

INJECT KB-1	1052	500ml	467

START CHASE	1158	1310	**TOTAL**
STOP CHASE	12:20	1618	
			398

COMMENTS

INJECTION POINT

IP - 4 0 144

DATE	9/25/07
FLOW RATE	9.75
PSI	40
DOSER ID	6
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	1120	0	
END EVO	1305	1314	

START ANA	1148	335	**TOTAL**
END ANA	1158	435	
			100

INJECT KB-1	1153	500 mL	@385

START CHASE	1305	1314	**TOTAL**
STOP CHASE	~~1310~~ 1330	1627	
			313

COMMENTS

INJECTION POINT

IP - 134

DATE	9/25/07
FLOW RATE	9.65
PSI	20
DOSER ID	P-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	11:53	0	
END EVO	13:45	1310	
			1310

START ANA	1224	322	**TOTAL**
END ANA	1235	427	
			100

INJECT KB-1	1230	500 mL	372

START CHASE	13:45	1310	**TOTAL**
STOP CHASE	14:05	1610	
			300

COMMENTS > 14 GPM @ 13:43 25

INJECTION POINT

IP - 135

DATE	9/25/07
FLOW RATE	~~9.06~~ 12
PSI	20
DOSER ID	4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:27	0	
END EVO	14:30	1310	
			1310

START ANA	1258	324	**TOTAL**
END ANA	1310	~~98~~ 424	
			100

INJECT KB-1	1304	500 mL	374

START CHASE	14:30	1310	**TOTAL**
STOP CHASE	1451	1610	
			300

COMMENTS	14:15 <10 CPM DUE TO SURFACING

INJECTION POINT

1256

IP - 136

DATE	9-25-17
FLOW RATE	9.14
PSI	20
DOSER ID	D5
EVO VOLUME	

-92) (0)

	TIME	GALLONS	TOTAL
START EVO	1301	~~000~~ (-92)	
END EVO	1514	1247 (1339)	

START ANA	1335	218 (320)	**TOTAL**
END ANA	1347	318 (420)	
			100

INJECT KB-1	1341	500 mL	268 (370)

START CHASE	1513	1247 (1339)	**TOTAL**
STOP CHASE	1833	1547 (1639)	
			300

COMMENTS 1312 totalizer reset readings will be stopped
~92 gallons short of 1610

INJECTION POINT

IP - 137

DATE	9/25/07
FLOW RATE	12.56
PSI	15
DOSER ID	D-7
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	13:08	0	
END EVO	14:58	1310	
			1310

START ANA	1352	441	**TOTAL**
END ANA	~~1460~~ 1404	541	
			100

1400

INJECT KB-1	~~1600~~	500ml	@491

START CHASE	14:58	1310	**TOTAL**
STOP CHASE	15:20	1613	
			303

COMMENTS > 14:02 conn @ 14:34

INJECTION POINT

IP - 138

DATE	9/25/07
FLOW RATE	12
PSI	20
DOSER ID	D3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:25	0	
END EVO	1552	1310	
			1310

1407 ANA

START ANA	~~1607~~	386	**TOTAL**
END ANA	~~1616~~ 1416	486	
			100

~~1412~~ 1412

INJECT KB-1	~~1612~~	500mL	436

START CHASE	1552	1310	**TOTAL**
STOP CHASE	1622	1610	
			300

COMMENTS < 4 GPM DUE TO SURFACING

INJECTION POINT

IP - 139

DATE	9/25/07
FLOW RATE	@ ~~10.26~~ 12.47
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	13:41	0	
END EVO	13:31	1310	
			1310

14

START ANA	1630	449	**TOTAL**
END ANA	~~1656~~	~~449~~	
	14:43	599	100

INJECT KB-1	14 ~~1655~~	500mL	549

START CHASE	15:31	1310	**TOTAL**
STOP CHASE	15:52	1610	
			300

COMMENTS	7 14.9 GPM @ 14:43 PSI 30

INJECTION POINT

IP - 140

DATE	9/25/07
FLOW RATE	12.28
PSI	22
DOSER ID	6
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1425	0	
END EVO	1614	1317	
			1317

START ANA	1454	322	**TOTAL**
END ANA	1505	422	
			100

@ 372

INJECT KB-1	1459	500 mL	

START CHASE	1614	1317	**TOTAL**
STOP CHASE	16:36	1630	
			313

COMMENTS

INJECTION POINT

IP - 141

DATE	9/25/07
FLOW RATE	11.6
PSI	17
DOSER ID	2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1455	0	
END EVO	1648	1350	1350

START ANA	1523	321	**TOTAL**
END ANA	1533	421	
			100

INJECT KB-1	1528	500 mL @	371

START CHASE	1648	1350	**TOTAL**
STOP CHASE	17:16	1650	
			300

COMMENTS

INJECTION POINT

IP - N42

DATE	9/25/07
FLOW RATE	12.4
PSI	20
DOSER ID	4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:45	0	
END EVO	1628	1310	1310

START ANA	1610	321	**TOTAL**
END ANA	1620	421	
			100

1615

INJECT KB-1	~~1615~~	500mL	@371

90 1728

START CHASE	~~1628~~	1310	**TOTAL**
STOP CHASE	~~1646~~ 1746	~~1610~~/1614	~~300~~ 314

COMMENTS

INJECTION POINT

IP - 143

DATE	9/25/07
FLOW RATE	1.25
PSI	18
DOSER ID	7
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	16:09	0	
END EVO	17:54	1313	
			18 TO 1313

START ANA	1638	322	**TOTAL**
END ANA	1448	422	
			100

INJECT KB-1	1643	500 mL	@ 372

START CHASE	1754	1313	**TOTAL**
STOP CHASE	1810	1613	
			300

COMMENTS

INJECTION POINT

IP - 146

DATE	9/24/07
FLOW RATE	10.43
PSI	10
DOSER ID	D-7
EVO VOLUME	12.9

	TIME	**GALLONS**	**TOTAL**
START EVO	704	0	
END EVO	908	1310	
			1310

START ANA	733	321	**TOTAL**
END ANA	742	421	
			100

INJECT KB-1	738	500 mL	@371

START CHASE	908	1310	**TOTAL**
STOP CHASE	939	1610	
			300

COMMENTS

INJECTION POINT

IP - 147

DATE	9/26/07
FLOW RATE	12.06
PSI	20
DOSER ID	3
EVO VOLUME	11.1

	TIME	**GALLONS**	**TOTAL**
START EVO	7:36	0	
END EVO	9:29	1310	
			1310

START ANA	803	321	**TOTAL**
END ANA	811	421	
			100

INJECT KB-1	807	500 mL	e371

START CHASE	9:29	1310	**TOTAL**
STOP CHASE	9:53	1610	
			300

COMMENTS

INJECTION POINT

IP - 148

DATE	9/26/07
FLOW RATE	11.81
PSI	20
DOSER ID	D-2
EVO VOLUME	12.8

	TIME	**GALLONS**	**TOTAL**
START EVO	7:52	0	
END EVO	9:44	1310	
			1310

START ANA	821	321	**TOTAL**
END ANA	831	421	
			100

INJECT KB-1	826	506 mL	@371

START CHASE	9:44	1310	**TOTAL**
STOP CHASE	10:06	1610	
			300

COMMENTS > 13.4 GPM @ 9:42

INJECTION POINT

IP - 149

DATE	9/26/07
FLOW RATE	13.21
PSI	20
DOSER ID	6
EVO VOLUME	11.5

	TIME	**GALLONS**	**TOTAL**
START EVO	8:13	0	
END EVO	10:04	1310	
			1310

START ANA	840	373	**TOTAL**
END ANA	851	473	

INJECT KB-1	845	500 ml	@423

START CHASE	10:04	1317	**TOTAL**
STOP CHASE	10:29	1617	
			300

COMMENTS

INJECTION POINT

IP - 150

DATE	9/26/07
FLOW RATE	9.5
PSI	15
DOSER ID	D-1
EVO VOLUME	131

	TIME	GALLONS	TOTAL
START EVO	8:41	0	
END EVO	10:44	1310	
			1310

START ANA	927	328	**TOTAL**
END ANA	936	428	
			100

INJECT KB-1	932	500ml	378

START CHASE	10:44	1310	**TOTAL**
STOP CHASE	11:05	1610	

COMMENTS

INJECTION POINT

IP - 15R1

DATE	9/26/07
FLOW RATE	12.04
PSI	15
DOSER ID	D-4
EVO VOLUME	131

	TIME	**GALLONS**	**TOTAL**
START EVO	900	0	
END EVO	1045	1310	

START ANA	934	465	**TOTAL**
END ANA	949	565	
			100

INJECT KB-1	944	500mL	@515

START CHASE	1045	1310	**TOTAL**
STOP CHASE	11:08	1610	
			300

COMMENTS

INJECTION POINT

IP - 152

DATE	9/26/07
FLOW RATE	1136
PSI	20
DOSER ID	D-5
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	9:14	0	
END EVO	11:05	1310	
			1310

START ANA	952	450	**TOTAL**
END ANA	1001	550	
			100

INJECT KB-1	957	500 mL	@500

START CHASE	11:05	1310	**TOTAL**
STOP CHASE	11:28	1650	
			340

COMMENTS

INJECTION POINT

IP - 153

DATE	9/26/07
FLOW RATE	10.13
PSI	15
DOSER ID	D-7
EVO VOLUME	12.9

	TIME	**GALLONS**	**TOTAL**
START EVO	10:10	0	
END EVO	12:18	1321	
			1310

START ANA	1042	328	**TOTAL**
END ANA	1052	428	
			100

INJECT KB-1	1047	500mL	378

START CHASE	1218	1321	**TOTAL**
STOP CHASE	12:48	1615	
			300

COMMENTS	< 8.65 GPM DUE TO FRACING IN MW-V31 MW-3

INJECTION POINT

IP - 154

DATE	9/26/07
FLOW RATE	10.67
PSI	16
DOSER ID	D-2
EVO VOLUME	14.7

	TIME	**GALLONS**	**TOTAL**
START EVO	10:33	0	
END EVO	1228	1321	

START ANA	1102	321	**TOTAL**
END ANA	1110	421	
			100

INJECT KB-1	1106	500	371

START CHASE	1228	1321	**TOTAL**
STOP CHASE	12:59	1621	
			300

COMMENTS	> 11.79 GPM @ 10:40 PSI 18

INJECTION POINT

IP - 55

DATE	9/26/07
FLOW RATE	11.93
PSI	20
DOSER ID	3
EVO VOLUME	14

	TIME	GALLONS	TOTAL
START EVO	10:48	0	
END EVO	12:37	1310	
			1310

START ANA	1119	370	**TOTAL**
END ANA	1130	470	
			100

INJECT KB-1	1125	500 mL @	420

START CHASE	12:37	1310	**TOTAL**
STOP CHASE	12:58	1610	
			300

COMMENTS	7 12,89 @ 12:36 PSI 22

INJECTION POINT

IP - 179

DATE	9/27/07
FLOW RATE	12.39
PSI	20
DOSER ID	D-1
EVO VOLUME	12.9

	TIME	**GALLONS**	**TOTAL**
START EVO	11:25	0	
END EVO	13:13	1310	
			1310

START ANA	11:56	388	**TOTAL**
END ANA	12:06	488	

INJECT KB-1	12:01	500mL	(@438)

START CHASE	13:13	1310	**TOTAL**
STOP CHASE	13:34	1610	
			301

COMMENTS

INJECTION POINT

IP - ~~179~~ 180

DATE	~~9~~/27/07
FLOW RATE	11
PSI	20
DOSER ID	
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1145	1510	
END EVO	13:36	2920	
			7310

START ANA	12:13	1939	**TOTAL**
END ANA	12:24	2039	

INJECT KB-1	12:19	500mL	(@1989)

START CHASE	13:34	2920	**TOTAL**
STOP CHASE	14:00	3220	
			300

COMMENTS

INJECTION POINT

IP - 181

DATE	9/27/07
FLOW RATE	11.3
PSI	15
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	12:28	0	
END EVO	14:05	1310	
			1310

START ANA	13:02	418	**TOTAL**
END ANA	13:11	518	

INJECT KB-1	13:06	500mL	C 458

START CHASE	14:05	1310	**TOTAL**
STOP CHASE	14:30	1610	
			300

COMMENTS > 15.91 @ 13.11 PSI = 25
< 12.21 @ 13:06 PSI = 15

12:56

INJECTION POINT

IP - 182

DATE	9-27-07
FLOW RATE	10.38
PSI	20
DOSER ID	D-3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:57	0	
END EVO	14:47	1310	——
			1310

START ANA	13:30	373	**TOTAL**
END ANA	13:43	473	
			100

INJECT KB-1	13:36	500mL	(@ 423)

START CHASE	14:47	1310	**TOTAL**
STOP CHASE	15:10	1620	
			310

COMMENTS	7/2 Open @ 13:50 PSI - 20

INJECTION POINT

IP - 183

DATE	9/27/06
FLOW RATE	113
PSI	18
DOSER ID	D-7
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	13:28	0	
END EVO	15:20	1310	—
			1310

START ANA	13:57	346	**TOTAL**
END ANA	14:57	446	
			100

INJECT KB-1	14:02	500mL	(@ 396)

START CHASE	15:20	1310	**TOTAL**
STOP CHASE	15:54	1610	
			300

COMMENTS

INJECTION POINT

IP - 184

DATE	9/27/07
FLOW RATE	1.47
PSI	20
DOSER ID	4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:42	0	
END EVO	15:57	1310	
			1310

START ANA	14:13	326	**TOTAL**
END ANA	14:25	426	
			100

INJECT KB-1	14:18	500mL	(@ 376)

START CHASE	15:57	1310	**TOTAL**
STOP CHASE	16:18	1610	
			300

COMMENTS >15 GPM @ 16:02 PSI 20

INJECTION POINT

IP - 185

DATE	9/27/07
FLOW RATE	11.3
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	14:22	0	
END EVO	16:12	1310	
			1310

START ANA	14:51	332	**TOTAL**
END ANA	15:02	432	
			100

INJECT KB-1	14:56	500mL	(@ 382)

START CHASE	16:18	1310	**TOTAL**
STOP CHASE	16:30	1610	

COMMENTS

INJECTION POINT

IP - 186

DATE	9/27/07
FLOW RATE	12
PSI	20
DOSER ID	D-6
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	14:46	0	
END EVO	1621	1310	
			1310

START ANA	15:11	359	**TOTAL**
END ANA	15:21	459	

INJECT KB-1	15:16	500mL	(@409)

START CHASE	16:21	1310	**TOTAL**
STOP CHASE	16:37	1610	
			300

COMMENTS

INJECTION POINT

IP -

DATE	
FLOW RATE	
PSI	
DOSER ID	
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO			
END EVO			

START ANA			TOTAL
END ANA			

INJECT KB-1		

START CHASE			TOTAL
STOP CHASE			

COMMENTS

INJECTION POINT

IP - 156

DATE	9/26/07
FLOW RATE	11.65
PSI	20
DOSER ID	D-6
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	11:14	0	
END EVO	1312	1310	1310

START ANA	1145	347	**TOTAL**
END ANA	1158	447	
			100

			@
INJECT KB-1	1151	500 mL	397

START CHASE	1312	1310	**TOTAL**
STOP CHASE	1332	1610	
			300

COMMENTS

INJECTION POINT

IP - 157

DATE	9/26/07
FLOW RATE	12.46
PSI	12.5
DOSER ID	D-4
EVO VOLUME	13.1

	TIME	GALLONS	TOTAL
START EVO	1149	6	
END EVO	1336	1310	1310

START ANA	1217	337	**TOTAL**
END ANA	1229	437	
			100

INJECT KB-1	1223	500 mL	387

START CHASE	1336	1310	**TOTAL**
STOP CHASE	1356	1610	
			300

COMMENTS

INJECTION POINT

IP - 158

DATE	9/26/07
FLOW RATE	1.22
PSI	20
DOSER ID	D5
EVO VOLUME	13.5

	TIME	**GALLONS**	**TOTAL**
START EVO	12:00	0 *	
END EVO	14:05	131 0	
			300

START ANA	1246	328	**TOTAL**
END ANA	1257	428	
			100

INJECT KB-1	1251	500 mL	378

START CHASE	1405	1310	**TOTAL**
STOP CHASE	1426	1610	
			1300

COMMENTS	92 ADDED PREVIOUS TO '0'

INJECTION POINT

IP - 159

DATE	9/24/07
FLOW RATE	11.77
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	12:27	0	
END EVO	14:06	1320	
			1320

START ANA	1301	413	**TOTAL**
END ANA	1310	513	
			100

INJECT KB-1	1306	500 mL	@0463

START CHASE	14:06	1320	**TOTAL**
STOP CHASE	1428	~~1620~~ 1420	
			308

COMMENTS

INJECTION POINT

IP - 160

DATE	9/26/07
FLOW RATE	11.25
PSI	20
DOSER ID	07
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1323	0	
END EVO	1517	1310	1310

START ANA	1351	33	**TOTAL**
END ANA	1407	439	
			100

@

INJECT KB-1	1356	500 mL	389

START CHASE	1517	1310	**TOTAL**
STOP CHASE	1543	1610	
			300

COMMENTS

INJECTION POINT

IP - 1681

DATE	9/26/07
FLOW RATE	1.13
PSI	18
DOSER ID	3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	13:33	0	
END EVO	1528	1310	1310

START ANA	1403	346	**TOTAL**
END ANA	1414 ~~1424~~	446	
			100

INJECT KB-1	1408	500mL	@396

START CHASE	1528	1310	**TOTAL**
STOP CHASE	1553	1627	
			300

COMMENTS

INJECTION POINT

IP - 162

DATE	9/28/07
FLOW RATE	11.2
PSI	25
DOSER ID	P-7
EVO VOLUME	12.9

	TIME	**GALLONS**	**TOTAL**
START EVO	13:47	0	
END EVO	1545	1310	
			1310

START ANA	1417	347	**TOTAL**
END ANA	1429	447	
			100

INJECT KB-1	1423	500 mL	397

START CHASE	1545	1310	**TOTAL**
STOP CHASE	1605	1610	
			30

COMMENTS

INJECTION POINT

IP - 163

DATE	9/26/07
FLOW RATE	10.75
PSI	12.5
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1405	0	
END EVO	15:49	1310	
			1310

START ANA	1438	355	**TOTAL**
END ANA	1448	455	
			100

INJECT KB-1	1443	500 mL	@405

START CHASE	~~1310~~ 15:49	1310	**TOTAL**
STOP CHASE	16:09	1610	
			300

COMMENTS > 14 GPM @ 1448

INJECTION POINT

IP - 164

DATE	9/26/07
FLOW RATE	11.12
PSI	12.5
DOSER ID	D-4
EVO VOLUME	13.1

	TIME	GALLONS	TOTAL
START EVO	1423	0	
END EVO	16:06	1310	
			1310

START ANA	1450	344	**TOTAL**
END ANA	1500	444	
			100

INJECT KB-1	1455	500 mL	394

START CHASE	1606	1310	**TOTAL**
STOP CHASE	16:20	1636	
			316

COMMENTS

INJECTION POINT

IP - 165

DATE	9/26/07
FLOW RATE	10.12
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	1456	0	
END EVO	1640	1310	
			1810

START ANA	1524	322	**TOTAL**
END ANA	~~1529~~ 1534	422	
			100

INJECT KB-1	~~1550~~ 1529	500 mL	@372

START CHASE	16:40	1310	**TOTAL**
STOP CHASE	17.00	1010	
			300

COMMENTS

INJECTION POINT

IP - 166

DATE	9/26/07
FLOW RATE	12.7
PSI	20
DOSER ID	D-5
EVO VOLUME	13.5

	TIME	**GALLONS**	**TOTAL**
START EVO	15:15	0	
END EVO	16:54	1310	
			1310

START ANA	1545	389	**TOTAL**
END ANA	1554	489	
			100

INJECT KB-1	1549	500mL	439

START CHASE	16:54	1310	**TOTAL**
STOP CHASE	17:12	1610	
			300

COMMENTS > 17 GPM 35 PSI @ 16:54

INJECTION POINT

IP - 107

DATE	9/27/07
FLOW RATE	12
PSI	73
DOSER ID	2
EVO VOLUME	12.7

	TIME	GALLONS	TOTAL
START EVO	7:09	0	
END EVO	9:01	1310	

START ANA	7:37	370	**TOTAL**
END ANA	7:47	470	

INJECT KB-1	7:43	500 mL	(@ 420)

START CHASE	9:01	1310	**TOTAL**
STOP CHASE	9:28	1610	

COMMENTS

INJECTION POINT

IP - 168

DATE	09/27/07
FLOW RATE	11
PSI	15
DOSER ID	D-3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	7:20	0	
END EVO	9:18	1310	—
			1310

START ANA	7:50	320	**TOTAL**
END ANA	8:00	420	

INJECT KB-1	7:56	500 mL	(@ 37°)

START CHASE	9:18	1310	**TOTAL**
STOP CHASE	9:42	1610	

COMMENTS 712 @ 8.23

INJECTION POINT

IP - 169

DATE	9/27/07
FLOW RATE	13
PSI	20
DOSER ID	D-7
EVO VOLUME	134

	TIME	GALLONS	TOTAL
START EVO	7:35	0	
END EVO	9:23	1310	
			1310

START ANA	8:04	344	**TOTAL**
END ANA	8:14	444	

INJECT KB-1	8:08	500mL	(@394)

START CHASE	9:23	1310	**TOTAL**
STOP CHASE	9:48	1610	
			300

COMMENTS

INJECTION POINT

IP - 170

DATE	9/27/07
FLOW RATE	12.4
PSI	15
DOSER ID	D4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	7:46	0	—
END EVO	9:31	1310	
			1310

START ANA	8:19	363	**TOTAL**
END ANA	8:28	463	

INJECT KB-1	8:23	500mL	(@413)

START CHASE	9:31	1350	**TOTAL**
STOP CHASE	9:52	1610	

COMMENTS	> 13.6 20 PSI @ 8:38

INJECTION POINT

IP - 171

DATE	9/27/07
FLOW RATE	11.9
PSI	20
DOSER ID	DY
EVO VOLUME	12.9

	TIME	**GALLONS**	**TOTAL**
START EVO	7:56	0	
END EVO	9:43	1310	
			1310

START ANA	8:31	383	**TOTAL**
END ANA	8:40	483	

INJECT KB-1	8:35	500mL	(433)

START CHASE	~~10:04~~ 9:43	1310	**TOTAL**
STOP CHASE	10:34	1610	
			300

COMMENTS

INJECTION POINT

IP - 172

DATE	9/27/07
FLOW RATE	12.06
PSI	20
DOSER ID	D-5
EVO VOLUME	13.7

	TIME	**GALLONS**	**TOTAL**
START EVO	8:09	0	
END EVO	9:57	1310	—
			1310

START ANA	8:44	422	**TOTAL**
END ANA		522	
			100

INJECT KB-1	8:49	500mL	(@472)

START CHASE	9:57	1310	**TOTAL**
STOP CHASE	10:21	1610	
			300

COMMENTS START TV18 KB-1

INJECTION POINT

IP - 173

DATE	9/27/07
FLOW RATE	12.6
PSI	20
DOSER ID	12.6
EVO VOLUME	137

	TIME	**GALLONS**	**TOTAL**
START EVO	8:39	0	
END EVO	10:15	1322	—
			1322

START ANA	9:07	322	**TOTAL**
END ANA	9:16	422	
			100

INJECT KB-1	9:11	50gm

START CHASE	10:15	1322	**TOTAL**
STOP CHASE	10:33	1622	
			300

COMMENTS	START NEW KB-1 VESSEL @ 173 GPM @ 9:16 PSI 30

INJECTION POINT

IP - 174

DATE	9/27/07
FLOW RATE	11
PSI	20
DOSER ID	D-2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	9:48	0	
END EVO	11:40	1360	

START ANA	10:13	324	**TOTAL**
END ANA	10:26	424	

INJECT KB-1	10:18	500ML	(@ 374)

START CHASE	11:40	1360	**TOTAL**
STOP CHASE	12:02	1610	

COMMENTS 7 13.5 gpm @ 10:26 PSI 21

INJECTION POINT

IP - 175

DATE	9/29/07
FLOW RATE	11
PSI	20
DOSER ID	D-3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10:06	0	
END EVO	11:59	1310	
			1310

START ANA	10:31	320	**TOTAL**
END ANA	10:41	420	
			100

INJECT KB-1	10:36	500 mL	(@ 370)

START CHASE	11:58	1310	**TOTAL**
STOP CHASE	12:25	1610	
			301

COMMENTS > 12.93 GPM @ 10:52 PSI 20

12:45.

INJECTION POINT

IP - 176

DATE	9/27/07
FLOW RATE	1673
PSI	24
DOSER ID	7
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10:20	0	
END EVO	12:15	1310	

START ANA	10:49	325	**TOTAL**
END ANA	11:00	425	

INJECT KB-1	10:54	500mL	(@375)

START CHASE	12:15	1310	**TOTAL**
STOP CHASE	12:37	1647	
			337

COMMENTS

INJECTION POINT

IP - 177

DATE	9/27/07
FLOW RATE	11.55
PSI	15
DOSER ID	D-4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	10:43	0	
END EVO	12:23	130	
			130

START ANA	11:15	376	**TOTAL**
END ANA	11:25	476	
			100

INJECT KB-1	11:21	500 mL	(@426)

START CHASE	12:23	130	**TOTAL**
STOP CHASE	12:44	1610	
			300

COMMENTS

INJECTION POINT

IP -178

DATE	9/27/07
FLOW RATE	13.0
PSI	25
DOSER ID	6
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10:04	0	
END EVO	11:54	1310	

START ANA	11:39	452	**TOTAL**
END ANA	11:50	952	

INJECT KB-1	11:45	500ML	(@ 502)

START CHASE	11:54	1310	**TOTAL**
STOP CHASE	13:14	1610	
			300

COMMENTS 7 13.86 e 11:50 PSI = 25

INJECTION POINT

IP - 187

DATE	09/28/07
FLOW RATE	12
PSI	17
DOSER ID	D-2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	7:55	0	
END EVO	9:50	1310	—
			1310

START ANA	8:25	335	**TOTAL**
END ANA	8:35	435	
			100

INJECT KB-1	8:30	500mL	(@ 385)

START CHASE	9:50	1310	**TOTAL**
STOP CHASE	10:14	1610	
			300

COMMENTS

INJECTION POINT

IP - 18

DATE	9/28/07
FLOW RATE	1.33
PSI	20
DOSER ID	D-3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	9:17	0	
END EVO	10:05	1310	—
			1310

START ANA	8:47	352	**TOTAL**
END ANA	8:56	452	
			100

INJECT KB-1	8:51	500mL	(@402)

START CHASE	10:05	1310	**TOTAL**
STOP CHASE	10:30	1610	
			300

COMMENTS

INJECTION POINT

IP - 189

DATE	9/28/07
FLOW RATE	12.66
PSI	20
DOSER ID	D-4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	8:29	0	
END EVO	10:11	1310	—
			1310

START ANA	8:59	387	**TOTAL**
END ANA	9:10	487	
			100

INJECT KB-1	9:06	500mL	(@437)

START CHASE	10:11	1310	**TOTAL**
STOP CHASE	10:33	1610	
			300

COMMENTS

INJECTION POINT

IP - 190

DATE	9/28/07
FLOW RATE	11
PSI	20
DOSER ID	D-7
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	8:40	0	
END EVO	10:27	1310	—
			1310

START ANA	9:15	395	**TOTAL**
END ANA	9:25	495	
			100

INJECT KB-1	9:20	500ML	(@445)

START CHASE	10:27	1310	**TOTAL**
STOP CHASE	10:48	1610	
			300

COMMENTS

INJECTION POINT

IP - 191

DATE	9/28/07
FLOW RATE	12.28
PSI	30
DOSER ID	D-6
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	9:02	0	
END EVO	10:44	1310	—
			1310

START ANA	9:29	349	**TOTAL**
END ANA	9:40	449	
			100

INJECT KB-1	9:35	500mL	(@399)

START CHASE	10:44	1310	**TOTAL**
STOP CHASE	11:01	1610	
			300

COMMENTS

INJECTION POINT

IP - I92

DATE	9/28/07
FLOW RATE	11.16
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	9:26	0	
END EVO	11:15	1340	—
			1340

START ANA	9:57	342	**TOTAL**
END ANA	10:07	442	
			100

INJECT KB-1	10:02	500 mL	(@ 392)

START CHASE	11:15	1340	**TOTAL**
STOP CHASE	11:32	1610	
			270

COMMENTS

INJECTION POINT

IP - 193

DATE	9/28/07
FLOW RATE	11.8
PSI	20
DOSER ID	D-2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10:35	0	
END EVO	12:26	1310	—
			1310

START ANA	11:04	365	**TOTAL**
END ANA	11:16	465	
			100

INJECT KB-1	11:10	500mL	(@415)

START CHASE	12:26	1310	**TOTAL**
STOP CHASE	12:52	1610	
			300

COMMENTS

INJECTION POINT

IP - 194

DATE	9/28/07
FLOW RATE	13.7
PSI	25
DOSER ID	D-3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10:56	0	
END EVO	12:45	1316	—
			1316

START ANA	11:21	332	**TOTAL**
END ANA	11:32	432	
			100

INJECT KB-1	11:27	500mL	(382)

START CHASE	12:45	1316	**TOTAL**
STOP CHASE	13:10	16:10	
			294

COMMENTS

INJECTION POINT

IP - 195

DATE	9/28/07
FLOW RATE	13
PSI	20
DOSER ID	D-4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	11:15	0	
END EVO	13:02	1310	~
			1310

START ANA	11:41	332	**TOTAL**
END ANA	11:51	432	
			100

INJECT KB-1	11:46	500 mL	(@ 382)

START CHASE	13:02	1810	**TOTAL**
STOP CHASE	13:36	1610	
			300

COMMENTS

INJECTION POINT

IP - 1 4 6

DATE	9/28/07
FLOW RATE	12.2
PSI	20
DOSER ID	D-7
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	11:38	0	
END EVO	13:30	1310	—
			1310

START ANA	12:03	350	**TOTAL**
END ANA	12:15	450	
			100

INJECT KB-1	12:08	500mL	(@400)

START CHASE	13:30	1310	**TOTAL**
STOP CHASE	14:02	1630	
			320

COMMENTS

INJECTION POINT

IP - 197

DATE	9/28/07
FLOW RATE	11.8
PSI	20
DOSER ID	D-6
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	11:57	0	
END EVO	14:25	1310	—
			1310

START ANA	12:23	323	**TOTAL**
END ANA	12:34	423	
			100

INJECT KB-1	12:29	500mL	(@373)

START CHASE	14:25	1310	**TOTAL**
STOP CHASE	14:52	1610	
			300

COMMENTS

INJECTION POINT

IP - 198

DATE	9/28/07
FLOW RATE	11
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	12:19	0	
END EVO	14:01	1310	—
			1310

START ANA	12:48	326	**TOTAL**
END ANA	12:56	426	
			100

INJECT KB-1	12:52	500 mL	(@ 376)

START CHASE	1401	1310	**TOTAL**
STOP CHASE	14:20	1610	
			300

COMMENTS

INJECTION POINT

IP - 199

DATE	9/28/07
FLOW RATE	12
PSI	20
DOSER ID	D-5
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	12:42	0	
END EVO	14:01	1310	

START ANA	13:06	320	**TOTAL**
END ANA	13:16	420	

INJECT KB-1	13:11	500mL	(@370)
	14:22	1310	
START CHASE	~~14:22~~	~~1310~~	**TOTAL**
STOP CHASE	~~14:01~~	~~1610~~ 1310	
	14:42	1610	300

COMMENTS

start 1345

INJECTION POINT

IP - 200

DATE	9-28-07
FLOW RATE	10.82
PSI	20
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1345	0	
END EVO	15:36	1310	
			1310

START ANA	14:26	422	**TOTAL**
END ANA	14:38	522	
			100

INJECT KB-1	14:32	500mL	(@ 472)

START CHASE	15:36	1310	**TOTAL**
STOP CHASE	15:56	1610	
			300

COMMENTS	>14:34 GPM PSI 25

INJECTION POINT

IP - 201

DATE	9/28/07
FLOW RATE	10
PSI	20
DOSER ID	D-3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	14:23	0	
END EVO	15:55	1340	

START ANA	14:51	321	**TOTAL**
END ANA	15:00	421	

INJECT KB-1	14:56	500mL	(@ 371)

START CHASE	15:45	1340	**TOTAL**
STOP CHASE	16:11	1640	
			300

COMMENTS	7 17 GPM PSI 35

INJECTION POINT

IP - 202

DATE	10/1/07
FLOW RATE	~~10.82~~ 11.80
PSI	18
DOSER ID	D-7
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	10:41	0	
END EVO	12:34	1310	1310
			1310

START ANA	1110	321	**TOTAL**
END ANA	1120	421	
			100

INJECT KB-1	1115	500 mL	371

START CHASE	12:34	1310	**TOTAL**
STOP CHASE	12:59	1610	
			300

COMMENTS

INJECTION POINT

IP - 203

DATE	10/1/07
FLOW RATE	11.84
PSI	20
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	8:00	0	
END EVO	956	1310	1310

START ANA	828	330	**TOTAL**
END ANA	840	430	
			100

INJECT KB-1	833	500 mL	C 380

START CHASE	956	1310	**TOTAL**
STOP CHASE	1020	1610	
			300

COMMENTS

INJECTION POINT

IP - 204

DATE	10/1/07
FLOW RATE	11.46
PSI	20
DOSER ID	D-3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	820	0	
END EVO	1018	1310	1310

START ANA	848	321	**TOTAL**
END ANA	~~85~~ 858	4287	
			100 106

INJECT KB-1	853	500 mL	@ 374

START CHASE	1014	1310	**TOTAL**
STOP CHASE	1044	1610	
			300

COMMENTS

INJECTION POINT

IP -205

DATE	10/1/07
FLOW RATE	12.42
PSI	12.5
DOSER ID	
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	8:40	17.5	
END EVO	1034	1329	1300

START ANA	905	322	**TOTAL**
END ANA	~~910~~ 915	422	
			100

INJECT KB-1	916	500 mL	@372

START CHASE	1034	1329	**TOTAL**
STOP CHASE	1100	1610	
			300

COMMENTS

INJECTION POINT

IP - 206

DATE	10/1/07
FLOW RATE	11.89
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	9:00	10	
END EVO	1053	1370	1370

START ANA	928	328	**TOTAL**
END ANA	938	~~428~~	
		432	108

INJECT KB-1	933	500mL	~~378~~ @ 382

START CHASE	1053	1370	**TOTAL**
STOP CHASE	11:18	~~1377~~ 1674	
			304

COMMENTS

INJECTION POINT

IP - 207

DATE	10/1/07
FLOW RATE	12.09
PSI	20
DOSER ID	D-5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	9:26	3.0	
END EVO	1119	1313	1310
			1310

START ANA	954	324	**TOTAL**
END ANA	1004	424	
			100

INJECT KB-1	959	500 mL	e374

START CHASE	1119	1313	**TOTAL**
STOP CHASE	11:42	1630	
			317

COMMENTS

INJECTION POINT

IP - 208

DATE	10/1/07
FLOW RATE	12.09
PSI	15
DOSER ID	D-6
EVO VOLUME	

	TIME	GALLONS	TOTAL	
START EVO	9:55	18		
END EVO	11:40	1328	1310	1328-18
			1310	

START ANA	1022	321	**TOTAL**
END ANA	1032	421	
			100

INJECT KB-1	1027	500 mL	371

START CHASE	11:40	1328	**TOTAL**
STOP CHASE	12:05	1628	
			300

COMMENTS

INJECTION POINT

IP - 209

DATE	10/1/07
FLOW RATE	11.24
PSI	20
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	11:09	0	
END EVO	13:03	1310	1310
			1310

START ANA	1138	321	**TOTAL**
END ANA	1148	421	
			100

INJECT KB-1	1143	500 mL	371

START CHASE	13:03	1310	**TOTAL**
STOP CHASE	13:31	1610	
			300

COMMENTS

INJECTION POINT

IP -210

DATE	10/1/07
FLOW RATE	11.49
PSI	20
DOSER ID	D-4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1203	0	
END EVO	13:52	1310	

START ANA	1230	321	**TOTAL**
END ANA	1240	421	
			100

INJECT KB-1	1235	500mL	@ 371

START CHASE	13:52	1310	**TOTAL**
STOP CHASE	14:17	1610	
			300

COMMENTS

INJECTION POINT

IP -211

DATE	10/31/07
FLOW RATE	~~13.1~~ 11.51
PSI	20
DOSER ID	D-3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1214	0	
END EVO	1359	1310	1310

START ANA	1242	336	TOTAL
END ANA	1250	436	
			100

INJECT KB-1	1246	500mL	@386

START CHASE	1359	1310	TOTAL
STOP CHASE	1424	1610	
			300

COMMENTS

INJECTION POINT

IP - 212

DATE	10/1/01
FLOW RATE	11.24
PSI	20
DOSER ID	D-5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1218	0	
END EVO	14:08	1310	1310

START ANA	1256	442	**TOTAL**
END ANA	1304	~~5~~42	
			100

INJECT KB-1	1300	500mL	@492

START CHASE	14:08	1310	**TOTAL**
STOP CHASE	1433	1610	
			300

COMMENTS

INJECTION POINT

IP - 213

DATE	10/1/07
FLOW RATE	13.12
PSI	20
DOSER ID	D-6
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	12:44	0	
END EVO	1429	1310	1310

START ANA	1313	379	**TOTAL**
END ANA	1323	479	
			100

INJECT KB-1	1318	500 mL	@429

START CHASE	1429	1310	**TOTAL**
STOP CHASE	1452	1615	
			305

COMMENTS Start TV-13

INJECTION POINT

IP - 214

DATE	10/1/07
FLOW RATE	10.91
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1311	0	
END EVO	14:57	1310	1310

START ANA	1340	324	**TOTAL**
END ANA	1350	424	
			100

INJECT KB-1	1345	500 mL	@ 374

START CHASE	14:57	1310	**TOTAL**
STOP CHASE	520	1639	
			329

COMMENTS

INJECTION POINT

IP - 215

DATE	10/1/07
FLOW RATE	12.1 11.81
PSI	20
DOSER ID	D-7
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1340	0	
END EVO	1546	1365	1365

START ANA	1410	333	**TOTAL**
END ANA	1423	433	
			100

INJECT KB-1	1416	500mL	P383

START CHASE	1546	1365	**TOTAL**
STOP CHASE	1607	1665	
			300

COMMENTS

INJECTION POINT

IP - 216

DATE	10/1/07
FLOW RATE	12.52
PSI	17
DOSER ID	D-2
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	14:13	0	
END EVO	15:48	1310	

START ANA	1439	331	**TOTAL**
END ANA	1448	431	
			100

INJECT KB-1	1444	500 mL	@381

START CHASE	15:48	1310	**TOTAL**
STOP CHASE	1611	1610	
			300

COMMENTS

INJECTION POINT

IP - 217

DATE	10/1/07
FLOW RATE	11.75
PSI	20
DOSER ID	D-5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1505	0	
END EVO	1727	1310	1310

START ANA	1534	324	**TOTAL**
END ANA	1543	424	
			100

INJECT KB-1	1539	500 mL @	374

START CHASE	1727	1310	**TOTAL**
STOP CHASE	1753	~~1640~~ 1622	
			312

COMMENTS

INJECTION POINT

IP - 218

DATE	10/1/07
FLOW RATE	11.49
PSI	12.5
DOSER ID	D-6
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1520	0	
END EVO	1742	1310	1310

START ANA	1549	342	**TOTAL**
END ANA	1611	442	
			100

INJECT KB-1	1603	500 mL	392

START CHASE	1742	1310	**TOTAL**
STOP CHASE	1804	1610	
			300

COMMENTS

INJECTION POINT

IP - 219

DATE	10/1/07
FLOW RATE	11.85
PSI	20
DOSER ID	D4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	1533	0	
END EVO	1722	1310	1310
			1310

START ANA	16:15	359	**TOTAL**
END ANA	1624	459	
			100

INJECT KB-1	1619	500 mL	409

START CHASE	1722	1310	**TOTAL**
STOP CHASE	1744	1610	
			300

COMMENTS

INJECTION POINT

IP - 220

DATE	10/1/07
FLOW RATE	11.34
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1543	0	
END EVO	18:02	1310	1310
			1310

START ANA	1627	436	**TOTAL**
END ANA	1637	536	
			100

INJECT KB-1	16:33	500 mL	2486

START CHASE	18:02	1310	**TOTAL**
STOP CHASE	1709	1374	
10/2/07 (730 start)	759 (stop)	1610	300

COMMENTS 1709 : Chase H_2O pump @ IP 220 Halted until 10/2/07 due to significant surfacing in entire area

INJECTION POINT

IP - 221

DATE	10/2/07
FLOW RATE	8.06
PSI	15
DOSER ID	D-3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	832	0	
END EVO	1018	1310	1310

START ANA	931	429	**TOTAL**
END ANA	~~944~~ 945	529	
			100

INJECT KB-1	940	500 mL	479

START CHASE	1018	1310	**TOTAL**
STOP CHASE	1156	1617	
			307

COMMENTS

INJECTION POINT

IP - 22

DATE	10/2/07
FLOW RATE	7
PSI	20
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	825	0	
END EVO	1131	1310	

START ANA	914	325	**TOTAL**
END ANA	928	425	
			100

INJECT KB-1	923	500mL	375

START CHASE	1131	1310	**TOTAL**
STOP CHASE	1209	1610	
			300

COMMENTS

INJECTION POINT

IP -223

DATE	10/2/07
FLOW RATE	9.13
PSI	15
DOSER ID	D-4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	840	0	
END EVO	1123	1310	1310

START ANA	957	476	**TOTAL**
END ANA	1007	526	
			100

@526

INJECT KB-1	1002	50mL

START CHASE	1123	1310	**TOTAL**
STOP CHASE	1154	1610	
			300

COMMENTS

INJECTION POINT

IP - 224

DATE	10/2/04
FLOW RATE	8.94
PSI	
DOSER ID	D-#J
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	853	0	
END EVO	1153	1310	

START ANA	1008	583	**TOTAL**
END ANA	1018	483	
			100

INJECT KB-1	1013	580+L	@433

START CHASE	1153	1310	**TOTAL**
STOP CHASE	1225	1610	
			300

COMMENTS

INJECTION POINT

IP - 225

DATE	10/2/07
FLOW RATE	9.4
PSI	15
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	859	0	
END EVO	12:16	1310	
			1310

START ANA	1022	435	**TOTAL**
END ANA	1034	535	
			100

INJECT KB-1	1027	500mL	@ 485

START CHASE	12:16	1310	**TOTAL**
STOP CHASE	12:54	1610	
			300

COMMENTS

INJECTION POINT

IP - ~~22~~ 26 D

DATE	10/2/01
FLOW RATE	8.63
PSI	20
DOSER ID	D-5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	716	0	
END EVO	1327	1335	1335

START ANA	1036	~~320~~	**TOTAL**
END ANA	1049	420	
			100

INJECT KB-1	1043	500 ml	C 570

YA

START CHASE	~~1322~~ 1327	1335	**TOTAL**
STOP CHASE	1400	~~1610 1615~~ 1635	
		1637	~~300~~ 302

YA

COMMENTS 1214 ~~22~~ 6pm DUE TO SURFACING
1245 additional 4'x4' section added + drive down in attempts to eliminate surfacing in into work area, 4' further

INJECTION POINT

IP -227

DATE	10/2/07
FLOW RATE	9.9
PSI	20
DOSER ID	D-4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1227	0	
END EVO	1430	1329	1325

START ANA	1312	351	**TOTAL**
END ANA	1322	451	
			100

INJECT KB-1	1317	500 mL	@ 401

START CHASE	1430	1325	**TOTAL**
STOP CHASE	1454	1625	
			300

COMMENTS Additional 4' lost added pushed 2.5' further to seal leakage

INJECTION POINT

IP - 127 228

DATE	10/2/07
FLOW RATE	10
PSI	20
DOSER ID	3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	12:33	0	
END EVO	1446	1310	1310

START ANA	1326	379	**TOTAL**
END ANA	1334	479	
			100

INJECT KB-1	1330	500 mL	C429

START CHASE	1446	1310	**TOTAL**
STOP CHASE	1518	1610	
			300

COMMENTS	12:37 6.8 GPM DUE TO BRIDGE PLUG

INJECTION POINT

IP -229

DATE	10/4/07
FLOW RATE	9.66
PSI	20
DOSER ID	D2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1329	0	
END EVO	1518	1310	1310

START ANA	~~1329~~ 1401	325	**TOTAL**
END ANA	1410	425	
			100

INJECT KB-1	~~1329~~ 1406	500 mL	~375

START CHASE	1518	1310	**TOTAL**
STOP CHASE	1547	1610	
			300

COMMENTS

INJECTION POINT

IP - 230

DATE	10/2/07
FLOW RATE	12.72
PSI	20
DOSER ID	D-7
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1352	0	
END EVO	1605	1310	1310

START ANA	1428	445	**TOTAL**
END ANA	1435	545	
			100

INJECT KB-1	1431	500 mL	@495

START CHASE	1605	1310	**TOTAL**
STOP CHASE	1656	1623	
			313

COMMENTS additional 4" casing added drive down 3' further

INJECTION POINT

IP - 231

DATE	10/2/07
FLOW RATE	~~Start~~ 9.56
PSI	19
DOSER ID	D-1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	14:15	0	
END EVO	1728	1318	1318

START ANA	1452	~~32~~ 323	TOTAL
END ANA	1505	423	
			100

INJECT KB-1	1459	500 mL	e373

START CHASE	1728	1318	TOTAL
STOP CHASE	~~1610~~ 1612	1018	
			300

COMMENTS ~ 1' deeper drive to additional rod.

INJECTION POINT

IP - 232

DATE	10-2-07
FLOW RATE	11.27
PSI	20
DOSER ID	
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	14:36	0	
END EVO	1754	1310	1310

START ANA	1512	356	**TOTAL**
END ANA	1522	456	
			100

INJECT KB-1	1517	50mL	@ 406

START CHASE	1754	1310	**TOTAL**
STOP CHASE	1830	1610	
			300

COMMENTS

INJECTION POINT

IP -234

DATE	10/4/07
FLOW RATE	7.48
PSI	20
DOSER ID	D-3
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	1541	0	
END EVO	7:44	1340	
10/3/07 1820		1057	1340

START ANA	1634	330	**TOTAL**
END ANA	1654	430	
			100

INJECT KB-1	1641	500 mL	@ 380

START CHASE	7:44 10/2/07	1340	**TOTAL**
STOP CHASE	8:36 10/3/07	1640	
	42		300

COMMENTS 1605 ~3 gpm due to surface
1624 - Rods pushed @ ~1.5' deeper to combat surfacing
Restart 10/3/07 6:45
1820 purging stopped due to breakthrough

INJECTION POINT

IP - 233

DATE	10/2/07
FLOW RATE	9.34
PSI	15
DOSER ID	D4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	1536	0	
END EVO	10/3/07 7:28	1320	
	10/2/07 1821	1065	

START ANA	1601	328	**TOTAL**
END ANA	1628	428	
			100

		1611	
INJECT KB-1	~~1610~~	500 mL	~~378~~

START CHASE	10/3/07 7:28	1320	**TOTAL**
STOP CHASE	8:15	1620	
			300

COMMENTS 1633 Rods pushed 2' deeper ~~shots~~ due to surface

1821 pumping stopped due to breakthrough

Restart 10/3/07 6:45

INJECTION POINT

IP - 236

DATE	6/13/07
FLOW RATE	9.48
PSI	15
DOSER ID	1
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	7:37	0	
END EVO	10:10	1310	

START ANA	8:23	420	**TOTAL**
END ANA	8:37	520	
			100

INJECT KB-1	8:30	500ml	470

START CHASE	09:10	1310	**TOTAL**
STOP CHASE	10:46	1610	
			300

COMMENTS

INJECTION POINT

IP - 237

DATE	10/3/07
FLOW RATE	7.7
PSI	15
DOSER ID	5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	7:49	1620	
END EVO	8:10:10	2920	
			130

START ANA	8:40	2017	**TOTAL**
END ANA	8:52	2117	
			100

INJECT KB-1	8:46	500ml	2067

START CHASE	10:17	2920	**TOTAL**
STOP CHASE	10:44	3220	

COMMENTS

7123

INJECTION POINT

IP - 235

DATE	10/3/07
FLOW RATE	8
PSI	12
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	8:08	~~350~~ 0	
END EVO	10:07	1315	
			1315

START ANA	8:07	~~3~~50	**TOTAL**
END ANA	8:21	@ ~~550~~ 450	
			100

INJECT KB-1	8:14	500ml	@ 500

START CHASE	10:07	1315	**TOTAL**
STOP CHASE	10:46	1615	
			300

COMMENTS

INJECTION POINT

IP - 238

DATE	10/3/07
FLOW RATE	8.5
PSI	15
DOSER ID	7
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	7:59	0	
END EVO	10:25	1310	
			1310

START ANA	8:56	488	**TOTAL**
END ANA	~~9:03~~ 9:09	588	
			100

INJECT KB-1	9:03	500ml	538

START CHASE	10:25	1310	**TOTAL**
STOP CHASE	11:10	1735	
			425

COMMENTS

INJECTION POINT

IP - 239

DATE	10/3/07
FLOW RATE	8.7
PSI	10
DOSER ID	4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	8:41	0	
END EVO	11:02	130	

START ANA	9:19	322	**TOTAL**
END ANA	9:30	422	

INJECT KB-1	9:25	500ml	372

START CHASE	11:03	1310	**TOTAL**
STOP CHASE	11:35	1610	
			300

COMMENTS

INJECTION POINT

IP - 24>

DATE	1d3/07
FLOW RATE	8.5
PSI	15
DOSER ID	0-3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	9:11	0	
END EVO	11:38	1310	
			1310

START ANA	9:53	365	**TOTAL**
END ANA	10:04	405	

INJECT KB-1	9:58	415	415

START CHASE	12:38	1310	**TOTAL**
STOP CHASE	12:09	1610	
			300

COMMENTS

INJECTION POINT

IP - 241

DATE	10/3/07
FLOW RATE	8.5
PSI	15
DOSER ID	6
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	9:44	0	
END EVO	12:11	1320	

346

START ANA	10:27	~~338~~ ~~344~~	**TOTAL**
END ANA	10:37	446	
			100

INJECT KB-1	10:31	500ml	396

START CHASE	12:11	1320	**TOTAL**
STOP CHASE	12:43	1620	
			300

COMMENTS

INJECTION POINT

IP - 247

DATE	10/3/07
FLOW RATE	7.29
PSI	15
DOSER ID	D-5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	11:34	0	
END EVO	10-4-07 10:22	1310	1310
			1310

START ANA	8:43	512	**TOTAL**
END ANA	~~8:54~~ 9:01	612	
			100

INJECT KB-1	~~500~~ 8:51	500ml	@ 562

START CHASE	10-4-07 10:22	1310	**TOTAL**
STOP CHASE	10-4-07 10:45	1610	
			1610

COMMENTS 11:47 < 4.7 GPM & PSI DUE TO BREAKTHROUGH 12:39 shut down due to breakthrough

INJECTION POINT

IP - 243

DATE	10/3/07
FLOW RATE	7.72
PSI	15
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	11:43	0	
END EVO	10-4-07 1055am	1310	1310

START ANA	13:47	546	**TOTAL**
END ANA	13:56	646	
			100

INJECT KB-1	13:53	500ml	596

START CHASE	10-4-07 1055am	1310	**TOTAL**
STOP CHASE	10-4-07 11:28	1610	
			300

COMMENTS 11:48 < 3.91 GPM DUE T BREAKTHROUGH

12:40 SHUT DOWN DUE T BREAKTHROUGH

INJECTION POINT

IP - 244

DATE	10/3/07
FLOW RATE	7.97
PSI	20
DOSER ID	D-5
EVO VOLUME	1310

	TIME	**GALLONS**	**TOTAL**
START EVO	12:01	0	
END EVO	10-4-07 @ 8:01	1310	1310
			1310

START ANA	12:58	380	**TOTAL**
END ANA	13:09	480	
			100

INJECT KB-1	13:04	500ml	430

START CHASE	10-4-07 @ 8:01	1310	**TOTAL**
STOP CHASE 10-4-07	9:41	1610	
			~~抽~~ 300

COMMENTS	12:40	shut	down	due	to breakthrough
	12:55	restart			
	13:13	shut	down	due	to breakthrough
	14:47	restart	stop	15:33	
	16:30	restart	2 GPM		

10-4-07- Start 7:30

INJECTION POINT

IP - 245

DATE	10-3-07
FLOW RATE	7.67
PSI	25
DOSER ID	D3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	12:25	0	
END EVO	13:47	1310	
			1310

13:25

START ANA	~~12:25~~	400	**TOTAL**
END ANA	* 13:41	500	
			100

INJECT KB-1	13:31	500	450

START CHASE	1347	1310	**TOTAL**
STOP CHASE	17:25	1610	
			300

COMMENTS 12:30 < 4 GPM DUE TO BREAKTHROUGH
17:08 < 10.4 GPM 22 PSI
* PUMP STOPPED TEMPORARILY TO 14:10 SHUT DOWN DUE TO BREAKTHROUGH
14:46 RESTART

INJECTION POINT

IP - 246

DATE	10/3/07
FLOW RATE	60.2
PSI	20
DOSER ID	4
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	1335	0	
END EVO	1610	1310	
			1310

START ANA	~~1409~~ 1403	469	**TOTAL**
END ANA	1412	569	
			100

INJECT KB-1	1402	500ml	519

START CHASE	1630	1310	**TOTAL**
STOP CHASE	1744	1610	
			300

COMMENTS STOP 1612 breakthrough
RESTART 1630 INTERMITTENTLY DUE TO BREAKTHROUGH

INJECTION POINT

IP - 247

DATE	10/3/07
FLOW RATE	5.75
PSI	5
DOSER ID	6
EVO VOLUME	

	TIME	**GALLONS**	**TOTAL**
START EVO	13:32	0	
END EVO	18:13	1310	1310

START ANA	15:26 ~~380~~	380	**TOTAL**
END ANA		480	
			100

INJECT KB-1	15:33	500ml	430

START CHASE	18:13	1310	**TOTAL**
STOP CHASE	18:43	1610	
			300

COMMENTS	SHUT DOWN AT 112 gallons due to backstrap RESTART AT 14:25

INJECTION POINT

IP - 248

DATE	10-4-07
FLOW RATE	start 5.5
PSI	start 1psi
DOSER ID	D-6
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	7:56	0	
END EVO	10-4-07 11:09am	1310	1310

START ANA	9:24	419	**TOTAL**
END ANA	9:50	519	
			100

INJECT KB-1	9:40	500mL	@ 469

START CHASE	10-4-07 11:30am	1310	**TOTAL**
STOP CHASE	10-4-07 11:30	1610	
			300

COMMENTS

INJECTION POINT

IP - 249

DATE	10-4-07
FLOW RATE	start 6cc02
PSI	start 16
DOSER ID	D-7
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	9:57	0	
END EVO	12:34	1330	

START ANA	11:11	446	**TOTAL**
END ANA	~~11:19~~ 11:29	546	
			100

INJECT KB-1	11:19	~~496~~ 500ml	@ 496

START CHASE	12:34	1330	**TOTAL**
STOP CHASE	12:57	1630	
			300

COMMENTS

INJECTION POINT

IP - 250

DATE	10-4-07
FLOW RATE	start 8.60
PSI	start 18
DOSER ID	D-3
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	10:26	0	
END EVO	13:05	1310	1310

START ANA	11:54	657	**TOTAL**
END ANA	12:06	757	
			100

INJECT KB-1	12:01	500ml	@ 707

START CHASE	13:05	1310	**TOTAL**
STOP CHASE	14:19	1610	
			300

COMMENTS

INJECTION POINT

IP - 251

DATE	10-4-07
FLOW RATE	10.85
PSI	12
DOSER ID	P-4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	10:36	0	
END EVO	12:47	1310	1310

START ANA	11:38	692	**TOTAL**
END ANA	11:59	792	
			100

INJECT KB-1	~~11:45~~ 11:45	500ml	@ 742

START CHASE	12:47	1310	**TOTAL**
STOP CHASE	~~14:18~~ 14:18	1610	
			300

COMMENTS

INJECTION POINT

IP - 252

DATE	10-4-07
FLOW RATE	start 6.0
PSI	16
DOSER ID	D-2
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:00	0	
END EVO	15:10	1310	

START ANA	13:38	400	**TOTAL**
END ANA	13:55	500	
			~~400~~ 100 ml

INJECT KB-1	13:43	500ml	@ 450

START CHASE	15:10	1310	**TOTAL**
STOP CHASE	15:40	1610	
			300

COMMENTS

INJECTION POINT

IP - 253

DATE	10-4-07
FLOW RATE	Start 6.2
PSI	19
DOSER ID	D-5
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:15	0	
END EVO	16:06	1310	1310

START ANA	14:00	342	**TOTAL**
END ANA	14:19	442	
			100

INJECT KB-1	14:09	500ml @392

START CHASE	16:06	1310	**TOTAL**
STOP CHASE	~~16:06~~ 16:26	1610	
			300

COMMENTS

INJECTION POINT

IP - 254

DATE	10-4-07
FLOW RATE	10.35
PSI	20
DOSER ID	D-4
EVO VOLUME	

	TIME	GALLONS	TOTAL
START EVO	13:56	0	
END EVO	16:00	1310	1310

START ANA	14:28	338	**TOTAL**
END ANA	~~14:55~~ 14:44	438	100

INJECT KB-1	14:35	~~500~~ 500ml	@ 388

START CHASE	16:00	1310	**TOTAL**
STOP CHASE	16:40	1610	300

COMMENTS

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	~~F~~ (6)	~~K~~ (7)	~~B~~ (8)	9	10	16
	Doser ID			D-2	D-2	D-2	D-1	P1	D2
	Date			9/11/07	9/11/07	9/11/07	9/11/07	9/11/07	9/11/07
	Time			11:48	12:29	12:50	15:50	1547	17:35
A	Starting Totalizer Reading (gal)			84.12	471.29	665.40	280.00	95.26	905.55
B	Ending Totalizer Reading (gal)			210	592.7	852.63	375.7	123.06	NA
C	Volume Injected (gal)	(B - A)		125.88	78.59	187.23	95.7	27.3	NA
D	Starting EVO Mass (lb)			36.6	36.0	30.6	41.8	40.6	32.4
E	Ending EVO Mass (lb)			23.6	25.4	14.6	33.0	15.4	NA
F	EVO Injected (lb)	(E - D)		13	10.6	16	8.8	25.2	NA
G	EVO Injected (gal)	(F / 8.18 lb/gal)		1.589	1.29	1.96	1.08	3.080	NA
H	Injected EVO Concentration (%)	(G / C)		1.26	1.64	1.046	~~1.3~~ 1.12	1.12	NA
I	Is (H) between 0.95 and 1.05%? (Y / N)			N	N	Y	N	N	NA
J	If (I) is "N", indicate Test # of retest			2	3	-	3	9	—
	Comments								

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	1	2	3	4	5	Comments
	Doser ID			IP1 (D-I)	D I.	D-1	D I	D-I	42.8 lbs
	Date			9/11/07	9/11/07	9/11/07	9/11/07	9/11/07	-2 lbs container
	Time			9:00	9:58	10:15	10:51	11:02	DOSER STARTED
A	Starting Totalizer Reading (gal)			0	~~500~~530	672.5	963.15	~~1175.78~~ 1178.20	
B	Ending Totalizer Reading (gal)			110	–	769.0	853.54	1275.71	
C	Volume Injected (gal)	(B - A)		110	–	96.5	109.61	99.93	
D	Starting EVO Mass (lb)			42.6	36.8	28.6	37.4	9.8	
E	Ending EVO Mass (lb)			33.4	–	18.4	26.6	~~24.0~~ 19.0	
F	EVO Injected (lb)	(E - D)		9.2 lb	–	10 lb	10.8	9.2	
G	EVO Injected (gal)	(F / 8.18 lb/gal)		1.126	–	1.22	1.32	1.125	
H	Injected EVO Concentration (%)	(G / C)		1	–	1.26%	1.20%	1.12%	
I	Is (H) between 0.95 and 1.05%? (Y / N)			Y	–	N	N	N	
J	If (I) is "N", indicate Test # of retest			1.01%	–	N ~~1.26~~ 4	5		
			Comments		RESET TOTALIZER TEST RESET BY ACCIDENT	TURN DOSER ½ turn down	MAN DOSER ½ turn down		

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	~~D-317~~	~~D~~ (18)	19	20	21	22
	Doser ID			D-3	D-4	D-3	D4	D4	D2
	Date			9/13/07	9/13/07	9/13/07	9/14/07	9/14/07	9/14/07
	Time			9:29		14.41	7:56	8:07	8:15
A	Starting Totalizer Reading (gal)			167	1265	11325	63.21	209	104.5
B	Ending Totalizer Reading (gal)			293	1600	12925	-	310	330
C	Volume Injected (gal)	(B - A)		126	335	160	-	101	225.5
D	Starting EVO Mass (lb)			34.4	38.8	22.8	32.6	36.6	35.8
E	Ending EVO Mass (lb)			25.6	11.0	9.6	-	26.6	15.6
F	EVO Injected (lb)	(E - D)		9	27.8	13.2	-	10	20.2
G	EVO Injected (ga[redacted]	(F / 8.18 lb/gal)		1.10	3.40	1.61	-	1.22	2.469
H	Injected EVO Concentr[redacted]	(G / C)		0.87	1.01	1.00	-	1.20	1.09
I	Is (H) between 0.95 and 1.05[redacted] N)			N	Y	Y	-	N	N
J	If (I) is "N", indicate Test # of retest						-		
		Comments		ADJUST DOSER	IP-21 + IP-17 SIMULTANEOUSLY (ACB)		RST ADJ EVO. DECREASE RST	DECREASE	DECREASE

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	28	29	30	31		
	Doser ID			D5	D5	D3	D1		
	Date			9/14/07	9/14/07	9/14/07	9/14/07		
	Time			11:32	14:42	16:38	16:11		
A	Starting Totalizer Reading (gal)			952	1154	902	823		
B	Ending Totalizer Reading (gal)			1129	1307	1140	1062		
C	Volume Injected (gal)	(B - A)		177	153				
D	Starting EVO Mass (lb)			36.4	20.8	36	36.2		
E	Ending EVO Mass (lb)			19.8	8	19.6	16.2		
F	EVO Injected (lb)	(E - D)		16.6	12.8				
G	EVO Injected (gal)	(F / 8.18 lb/gal)		2.02	1.56				
H	Injected EVO Concentration (%)	(G / C)		1.14	1.02				
I	Is (H) between 1% and 1.05%? (Y / N)			N	Y				
J	If (I) is "N", indicate Test # of retest								
	Comments								

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSE CALIBRATION LOG
TDY Industries
San Diego, California

Geosynt[illegible]
consultants

			Test # →	12	13	14	15	16	
	Doser ID			P1	V2	12	P1	P1	
	Date			9/12/07	9/12/07	9/12/07	9/12/07	9/12/07	
	Time			937	9:34	12:16	12:37	13:08	
A	Starting Totalizer Reading (gal)			–	–	575	616	957.4	
B	Ending Totalizer Reading (gal)			–	–	876	856	1267	
C	Volume Injected (gal)	(B - A)		–	–	301	240	309.6	
D	Starting EVO Mass (lb)			–	–	31	34	39	
E	Ending EVO Mass (lb)			–	–	5.2	10	13.6	
F	EVO Injected (lb)	(E - D)		–	–	25.8	24	25.4	
G	EVO Injected (gal)	(F / 8.18 lb/gal)		–	–	3.15	2.93	3.105	
H	Injected EVO Concentration (%)	(G / C)				1.046	1.23	1.00	
I	Is (H) between 0.95 and 1.05%? (Y / N)					Y	N	~~1.00~~ Y	
J	If (I) is "N", indicate Test # of retest					NA	16		
			Comments	20 psi. 13.16 gm & BREAK THROUGH	20 psi @ 13.26				

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	23	24	25	26	27	
	Doser ID			D4	D2	D1	D5	D3	
	Date			9/14/07	9/14/07	9/14/07	9/14/07	9/14/07	
	Time			9:00	9:02	9:50	10:00	10:05	
A	Starting Totalizer Reading (gal)			704	538	~~538~~ 40	196	844	
B	Ending Totalizer Reading (gal)			967	763	622	321	1190	
C	Volume Injected (gal)	(B - A)		263	225		125	346	
D	Starting EVO Mass (lb)			34.6	41.2	~~41.2~~ 40.6	36.8	46.8	
E	Ending EVO Mass (lb)			12.0	23.0		27.6	17.4	
F	EVO Injected (lb)	(E - D)		22.6	18.2		9.2	24.4	
G	EVO Injected (gal)	(F / 8.18 lb/gal)		2.76	2.22		1.13	2.983	
H	Injected EVO Concentration (%)	(G / C)		1.049	0.98		.40	0.86	
I	Is (H) between 0.95 and 1.05%? (Y / N)			Y	Y			N	
J	If (I) is "N", indicate Test # of retest								
			Comments						

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	28	29	30	31	32	
	Doser ID			D5	D2	D3	D1	D4	
	Date			9/17/07	9/17/07	9/17/07	9/17/07	9/17/07	
	Time			12:56	13:21	13:21	14:08	15:18	
A	Starting Totalizer Reading (gal)			157	538	240	198	687	
B	Ending Totalizer Reading (gal)			401	774	476	431	894	
C	Volume Injected (gal)	(B - A)		244	236	236	233	207	
D	Starting EVO Mass (lb)			28.0	37.6	34.4	33.2	31	
E	Ending EVO Mass (lb)			7.2	18.2	15	14.8	12.8	
F	EVO Injected (lb)	(E - D)		20.8	20.4	19.4	18.4	18.2	
G	EVO Injected (gal)	(F / 8.18 lb/gal)		2.54	2.49	2.37	2.25	2.22	
H	Injected EVO Concentration (%)	(G / C)		1.04	1.05	1.05	0.96	1.04	
I	Is (H) between 0.95 and 1.05%? (Y / N)			Y	Y	Y	Y	Y	
J	If (I) is "N", indicate Test # of retest								
		Comments							

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	33	34	35	36	37	38
	Doser ID			9/18/07	9/18/07	9/18/07	9/18/07	9/18/07	9/18/07
	Date			D2	D3	D5	D1	D4	D-1
	Time			8:08	8:21	8:35	8:49	9:00	10:11
A	Starting Totalizer Reading (gal)			33	45	39	102	51	1016
B	Ending Totalizer Reading (gal)			233	255	240	287	348	1271
C	Volume Injected (gal)	(B - A)		200	210	201	185	297	255
D	Starting EVO Mass (lb)			42.0	37	32.6	38.2	36	33.6
E	Ending EVO Mass (lb)			25.6	20.4	~~2.03~~ 15	21.6	11.4	12.2
F	EVO Injected (lb)	(E - D)		16.4	16.6	17.6	16.6	25	11.4
G	EVO Injected (gal)	(F / 8.18 lb/gal)		2.005	2.03	2.15	2.03	3.05	1.39
H	Injected EVO Concentration (%)	(G / C)		1.00	0.97	1.06	1.04	1.03	0.54 *
I	Is (H) between 0.95 and 1.05%? (Y / N)			Y	Y	N	N	✓	N
J	If (I) is "N", indicate Test # of retest								
	Comments				> ½ turn	< ¼ turn	< ½ turn		* TOTALIZER MISREAD ??

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	39	40				
	Doser ID			9/18/07	9/18/07				
	Date			D5	D1				
	Time			12:22	12:33				
A	Starting Totalizer Reading (gal)			799	498				
B	Ending Totalizer Reading (gal)			1159	708				
C	Volume Injected (gal)	(B - A)		360	210				
D	Starting EVO Mass (lb)			44.8	35.6				
E	Ending EVO Mass (lb)			14.0	17.6				
F	EVO Injected (lb)	(E - D)		30.8	18				
G	EVO Injected (gal)	(F / 8.18 lb/gal)		3.76	2.20				
H	Injected EVO Concentration (%)	(G / C)		1.04	1.05				
I	Is (H) between 0.95 and 1.05%? (Y / N)			Y	Y				
J	If (I) is "N", indicate Test # of retest								
		Comments							

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-1	D-3	D-5			
	Date		9/14/07	9/14/07	9/14/07			
	Time		9:21	9:33	12:01			
A	Starting Totalizer Reading (gal)		771	823	1218			
B	Ending Totalizer Reading (gal)		1053	1051	1310			
C	Volume Injected (gal)	(B - A)	282	228	92			
D	Starting EVO Mass (lb)		32.6	37	20.4			
E	Ending EVO Mass (lb)		8.8	18.6	12.4			
F	EVO Injected (lb)	(E - D)	24	18.4	8			
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.93	2.24	0.98			
H	Injected EVO Concentration (%)	(G / C)	1.04	0.94	1.06			
I	Is (H) between 0.95 and 1.05%? (Y / N)		Y	Y				
J	If (I) is "N", indicate Test # of retest							
	Comments							

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

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DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →						
	Doser ID		D4	D5	D2	D1	D5	D5
	Date		9/19/07	9/19/07	9/19/07	9/19/07	9/19/07	9/19/07
	Time		7:37	7:47	8:21	8:27	8:36	8:52
A	Starting Totalizer Reading (gal)		32	58	72	20.6	39660	870
B	Ending Totalizer Reading (gal)		336	426	344			1126
C	Volume Injected (gal)	(B - A)	304	368	272			256
D	Starting EVO Mass (lb)		37.4	38.4	39.6	39.2	39.4	42
E	Ending EVO Mass (lb)		12.4	15	17.2			18
F	EVO Injected (lb)	(E - D)	25	23.4	22.4			2.93
G	EVO Injected (gal)	(F / 8.18 lb/gal)	3.05	2.86	2.74			0.36
H	Injected EVO Concentration (%)	(G / C)	1.00	0.77?	1.00			1.14
I	Is (H) between 0.95 and 1.05%? (Y / N)		Y	N	Y			
J	If (I) is "N", indicate Test # of retest							
	Comments			> ½ turn		OUT OF OIL NEED REFILL	OIL APPEARS NEED	< ½ turn

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →						
	Doser ID		D-1	D1	D4	D~~5~~	D4	D4
	Date		9/20/07	9/20/07	9/20/07	9/20/07	9/20/07	9/20/07
	Time		10:30	11:25	11:34	11:53	12:21	12:36
A	Starting Totalizer Reading (gal)		198	580	46	313	636	816
B	Ending Totalizer Reading (gal)		341	774	~~259~~	~~313~~	774	1076
C	Volume Injected (gal)	(B - A)	147	194	213		143	260
D	Starting EVO Mass (lb)		29.8	27.4	38.2	38.8	35.4	31.6
E	Ending EVO Mass (lb)		15	10.4	23		21.8	9
F	EVO Injected (lb)	(E - D)	14.8	17	15.2	–	13.6	22.6
G	EVO Injected (gal)	(F / 8.18 lb/gal)	1.81	2.07	1.85	–	1.66	2.76
H	Injected EVO Concentration (%)	(G / C)	1.26	1.06	0.87	-	1.16	1.06
I	Is (H) between 0.95 and 1.05%? (Y / N)							
J	If (I) is "N", indicate Test # of retest							
	Comments				7	FILLED NEED TEST		

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

D1 - 1.06 D6 - 1.06
D2 - 1.01 D7 - 1.01
D3 - 1.06
D4 - 1.00
D5 - 1.02

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D6	D4	D3	D4	D7	D.3
	Date		9/20/07	9/20/07	9/20/07	9/20/07	9/20/07	9/20/07
	Time		9:14	9:14	9:41	9:49	10:05	10:39
A	Starting Totalizer Reading (gal)		55	529	508	857	50.6	845
B	Ending Totalizer Reading (gal)		232	—	822	1066	355	1008
C	Volume Injected (gal)	(B - A)	177	—	314	209	304	163
D	Starting EVO Mass (lb)		30.4	35.6	38.8	33.0	35.2	42
E	Ending EVO Mass (lb)		15	—	13.4	13.8	10	27.8
F	EVO Injected (lb)	(E - D)	15.4	—	25.4	19.2	25.2	14.2
G	EVO Injected (gal)	(F / 8.18 lb/gal)	1.88	—	3.105	2.34	3.08	1.735
H	Injected EVO Concentration (%)	(G / C)	1.06	—	98%	1.12	1.01	1.06
I	Is (H) between 0.95 and 1.05%? (Y / N)		N	—				
J	If (I) is "N", indicate Test # of retest							
	Comments			DANIEL TEST AND H2O STARTED	> 1/2 FM			

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →						
	Doser ID		D-2	D-1 ✓	D3	D4	D1	D5 ✓
	Date		9/20/07	9/20/07	9/20/07	9/20/07	9/20/07	9/20/07
	Time		7:46	8:04	8:34	8:45	8:55	8:25
A	Starting Totalizer Reading (gal)		80.5	63	95	71.0	666	580
B	Ending Totalizer Reading (gal)		321	~~287~~ 293	295	364	900	907
C	Volume Injected (gal)	(B - A)	240.5	230	200	333	234	327
D	Starting EVO Mass (lb)		31.4	37.8	35.6	37.6	37.6	36.4
E	Ending EVO Mass (lb)		11.4	26.8	20.8	13.2	14.0	8.6
F	EVO Injected (lb)	(E - D)	20	11	14.8	24.4	23.6	27.8
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.44	1.34	1.8	2.98	2.88	3.39
H	Injected EVO Concentration (%)	(G / C)	1.01	0.50?	0.90%	0.89%	1.23	1.03
I	Is (H) between 0.95 and 1.05%? (Y / N)		Y	N				Y
J	If (I) is "N", indicate Test # of retest							
	Comments			7 ½ hrs	7½ hrs			

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-3	D-6	D-6	D-3	D 3	
	Date		9/21/07	9/21/07	9/21/07	9/21/07	9/21/07	
	Time		8:40	9:16	9:43	9:48	10:08	
A	Starting Totalizer Reading (gal)		58	648	970	584	732	
B	Ending Totalizer Reading (gal)		295	883	1154	717	938	
C	Volume Injected (gal)	(B - A)	237	235	184	133	206	
D	Starting EVO Mass (lb)		40.4	27.6	33.6	40	36.8	
E	Ending EVO Mass (lb)		21.4	6.6	17.4	29.4	19.6	
F	EVO Injected (lb)	(E - D)	19	21	16.2	10.6	17.2	
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.32	2.57	~~1.0~~ 1.2	1.29	2.10	
H	Injected EVO Concentration (%)	(G / C)	0.98	1.09	1.04	0.97	1.02	
I	Is (H) between 0.95 and 1.05%? (Y / N)		N	N	Y	N	Y	
J	If (I) is "N", indicate Test # of retest							
	Comments							

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-2	D-4	D-1	D5	D-6	D-7
	Date		9/21/07	9/21/07	9/21/07	9/21/07	9/21/07	9/21/07
	Time		7:24	7:38	8:02	8:10	8:27	8:29
A	Starting Totalizer Reading (gal)		124	109	105	55	70	550
B	Ending Totalizer Reading (gal)		320	330	369	295	288	773
C	Volume Injected (gal)	(B - A)	196	221	264	240	218	223
D	Starting EVO Mass (lb)		~~12~~ 36.2	37.4	31	35.8	33.2	32.2
E	Ending EVO Mass (lb)		19.8	19	8.4	15.2	16.4	17.4
F	EVO Injected (lb)	(E - D)	16.4	18.4	22.6	20.6	16.8	18.8
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.00	2.24	2.76	2.52	2.05	2.29
H	Injected EVO Concentration (%)	(G / C)	1.02	1.01	1.05	1.05	0.94	1.03
I	Is (H) between 0.95 and 1.05%? (Y / N)		Y	Y	Y	Y	N	Y
J	If (I) is "N", indicate Test # of retest							
	Comments							

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-2	D-3	D-5	D4	D1	D7
	Date		9/24/07	9/24/07	9/24/07	9/24/07	9/24/07	9/24/07
	Time		8:28	8:42	9:07	9:19	9:38	10:07
A	Starting Totalizer Reading (gal)		102	20	46	45	25	40
B	Ending Totalizer Reading (gal)		331	288	312	348	358	340
C	Volume Injected (gal)	(B - A)	229	268	266	303	333	300
D	Starting EVO Mass (lb)		32	38	37.6	34	37.6	36.8
E	Ending EVO Mass (lb)		13.2	15	15	13.8	8	11.4
F	EVO Injected (lb)	(E - D)	~~1.6~~ 18.8	23	22.6	25.2	29.6	25.4
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.29	2.81	2.76	3.08	3.62	3.10
H	Injected EVO Concentration (%)	(G / C)	1.00	1.05	1.03	1.01	1.08	1.04
I	Is (H) between 0.95 and 1.05%? (Y / N)		Y	Y	Y	Y	N	Y
J	If (I) is "N", indicate Test # of retest							
	Comments							

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

E F
1+515.42

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →						
	Doser ID		D-1	D-6					
	Date		9/24/07	9/24/07					
	Time		10:45	11:24					
A	Starting Totalizer Reading (gal)		891	67					
B	Ending Totalizer Reading (gal)		1096	348					
C	Volume Injected (gal)	(B - A)	205	281					
D	Starting EVO Mass (lb)		39	35.4					
E	Ending EVO Mass (lb)		21	11					
F	EVO Injected (lb)	(E - D)	2.2	24.4					
G	EVO Injected (gal)	(F / 8.18 lb/gal)	1.05	2.98					
H	Injected EVO Concentration (%)	(G / C)	Y	N					
I	Is (H) between 0.95 and 1.05%? (Y / N)			1.06					
J	If (I) is "N", indicate Test # of retest								
	Comments								

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-3	D-7	D-3			
	Date		9/25/07	9/25/07	9/25/07			
	Time		9:22	10:05	10:24			
A	Starting Totalizer Reading (gal)		67	647	719			
B	Ending Totalizer Reading (gal)		269	870	956			
C	Volume Injected (gal)	(B - A)	202	223	237			
D	Starting EVO Mass (lb)		34.4	34.4	36.6			
E	Ending EVO Mass (lb)		18.2	15.8	16			
F	EVO Injected (lb)	(E - D)	16.2	2.27	20.6			
G	EVO Injected (gal)	(F / 8.18 lb/gal)	1.98	1.02	2.51			
H	Injected EVO Concentration (%)	(G / C)	0.98	↳	1.06			
I	Is (H) between 0.95 and 1.05%? (Y / N)		N	Y				
J	If (I) is "N", indicate Test # of retest							
		Comments						

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

ANAEROBIC TANK MONITORING LOG
TDY Industries
San Diego, California

Geosyntec consultants

Date	Time	DO Concentration (mg/L)	pH	ORP (eV)	Approx. Volume of ANA Water Removed (gal)	Hydrant Water Added (gal)	EVO Added (gal) *	Technician Initials	Comments
9/11/07	6:30	0	7.7	-350	200				
	9:00				200				
	10:00				300				
	16:57				-	700	7		
9/12/07	10:30	0	7.1	-367	200				
	11:30				200				
	17:00				100				
	17:30				-	500	5		
9/13/07	1400	0	7.3	-387	1100	1100	11		
9/14/07	8:00	0	7.4	-324	-	-	-		
	18:30	-	-	-	1500	1500	15		
9/17/07	18:00				600	600	6		
9/18/07	18:30	0		-378	1400	1400	14		
9/19/07	7:28	0	7.02	-276	-	-	-		
9/20/07	7:00	0	7.2	-371	-	-	-		
9/20/07	18:30	-	-	-	2000	2000	20		
9/21/07	6:30	-	7.3	-375		1800**	18**		* DO METER NOT FUNCTIONING ** ADDED AT END OF DAY
9/24/07	6:30	0	7.1	-352	-	-	-		
9/24/07	18:00	-	-	-	-	1700	17		
9/25/07	9:45	0	7.2	-302					

EVO - emulsified vegetable oil
ANA - anaerobic
* 1 gallon of EVO to be added per 100 gallons of ANA water removed each day.

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →						
	Doser ID		D-5	D-4	D-6	D-5	D-2	D-7
	Date		9/25/07	9/25/07	9/25/07	9/25/07	9/25/07	9/25/07
	Time		7:40	8:05	8:15	8:18	8:50	9:07
A	Starting Totalizer Reading (gal)		53.74	15	41	538	19	108
B	Ending Totalizer Reading (gal)		235	277	361	872	~~106~~ 283	326
C	Volume Injected (gal)	(B - A)	181	262	320	334	264	224
D	Starting EVO Mass (lb)		35	34.8	36	40.8	41.2	31.2
E	Ending EVO Mass (lb)		19.6	13.2	9.4	12.9	~~31~~ 19.6	14.4
F	EVO Injected (lb)	(E - D)	16.6	21.6	26.6	28	216	16.8
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.03	2.64	3.25	3.42	2.64	2.05
H	Injected EVO Concentration (%)	(G / C)	1.12	1.00	1.01	1.02	1.00	0.91
I	Is (H) between 0.95 and 1.05%? (Y / N)							
J	If (I) is "N", indicate Test # of retest							
	Comments		<					>

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

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DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	D-7					
	Doser ID		9/26/07	D-3	D-2	D-6	D-1	D-3
	Date		D-7	9/26/07	9/26/07	9/26/07	9/26/07	9/26/07
	Time		7:10	7:39	7:56	8:18	8:52	9:04
A	Starting Totalizer Reading (gal)		33	52	51	80	92.3	10.53
B	Ending Totalizer Reading (gal)		294	—	260	352	—	1179
C	Volume Injected (gal)	(B - A)	261		209	270	—	126
D	Starting EVO Mass (lb)		35.6	35.6	33.6	36.0	30.4	34.8
E	Ending EVO Mass (lb)		14.4	—	16.8	16.6	—	24.2
F	EVO Injected (lb)	(E - D)	21.2	—	16.8	19.4	—	10.6
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.59	—	2.05	2.37	—	—
H	Injected EVO Concentration (%)	(G / C)	0.99	—	0.98	87	—	0.84
I	Is (H) between 0.95 and 1.05%? (Y / N)		Y	—	Y			
J	If (I) is "N", indicate Test # of retest			—				
	Comments			CHANGED OIL RED		> 3/4 IN	OIL ADDED	> 3/4

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-3	D-2	D-1	D-2	D-6	P2
	Date		9/26/07	9/26/07	9/26/07	9/26/07		9/26/07
	Time		10:50	11:26	13:54	14:02		14:22
A	Starting Totalizer Reading (gal)		102	555	1154	457		690
B	Ending Totalizer Reading (gal)		~~306~~ 370	765	1320	—		842
C	Volume Injected (gal)	(B - A)	~~204~~ (268)	210	166			152
D	Starting EVO Mass (lb)		~~37.43~~	38.8	34.6	34.4		32.2
E	Ending EVO Mass (lb)		~~24~~ 13.6	19.2	20	—		18.2
F	EVO Injected (lb)	(E - D)	~~13.4~~ (23.8)	19.6	14.6	—		14
G	EVO Injected (gal)	(F / 8.18 lb/gal)	~~1.63~~ 2.9	2.34	1.78	—		1.71
H	Injected EVO Concentration (%)	(G / C)	~~0.80~~ 1.08	1.14	1.07	—		1.1
I	Is (H) between 0.95 and 1.05%? (Y / N)		1.					
J	If (I) is "N", indicate Test # of retest							
	Comments					Ann oil		

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

1750
3280

			Test # →					
	Doser ID		D-4	D-5	D-7	D-4	D-1	D-2
	Date		9/26/07	9/26/07	9/26/07	9/26/07	9/26/07	9/26/07
	Time		9:06	9:27	10:12	10:33	10:34	10:41
A	Starting Totalizer Reading (gal)		89	124	94	1165	1205	105
B	Ending Totalizer Reading (gal)		3 —	269	—	1310	1310	306
C	Volume Injected (gal)	(B - A)	—	145		145	105	201
D	Starting EVO Mass (lb)		33.2	31	34.0	32.4	31	39.4
E	Ending EVO Mass (lb)		24.4	18.6	—	20.4	22.8	24 15.4
F	EVO Injected (lb)	(E - D)	—	12.4	—	12	8.2	24 15.4
G	EVO Injected (gal)	(F / 8.18 lb/gal)	—	1.51	—	1.46	1.00	
H	Injected EVO Concentration (%)	(G / C)	—	1.04	—	1.00	95	0.94
I	Is (H) between 0.95 and 1.05%? (Y / N)			Y	—	Y		
J	If (I) is "N", indicate Test # of retest		—		—			
		Comments	OIL ADDED		OIL ADDED		✓	

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-2	D-3	D-7	D-4	D-1	D-1
	Date		9/27/07	9/27/07	9/27/07	9/27/07	9/27/07	9/27/07
	Time		7:21	7:37	7:54	7:48	8:03	8:13
A	Starting Totalizer Reading (gal)		167	30	66	21	50	183
B	Ending Totalizer Reading (gal)		331	227	246	221	–	336
C	Volume Injected (gal)	(B - A)	164	197	180	200	–	153
D	Starting EVO Mass (lb)		35.6	34.0	34.62	39.0	41.4	~~183~~ 36.2
E	Ending EVO Mass (lb)		21.4	17.4	19	22	–	22
F	EVO Injected (lb)	(E - D)	14.2	16.6	15.2	17	–	1.73
G	EVO Injected (gal)	(F / 8.18 lb/gal)	1.73	2.02	1.85	2.07	–	1.13
H	Injected EVO Concentration (%)	(G / C)	1.05	1.03	1.03	1.04	–	-
I	Is (H) between 0.95 and 1.05%? (Y / N)		Y	Y	Y	Y	–	N
J	If (I) is "N", indicate Test # of retest							
	Comments						2000 ~~42~~	

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-5	D-1	D-6	D-6		
	Date		9/27/07	9/27/07	9/27/07	9/27/07		
	Time		8:14	8:44	8:45	9:27		
A	Starting Totalizer Reading (gal)		60	531	75	588		
B	Ending Totalizer Reading (gal)		263	791	308	858		
C	Volume Injected (gal)	(B - A)	203	260	233	270		
D	Starting EVO Mass (lb)		37.8	38.4	33.6	40.6		
E	Ending EVO Mass (lb)		18.6	17.2	12.8	17.6		
F	EVO Injected (lb)	(E - D)	19.2	21.2	20.8	23		
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.34	2.59	~~0.89~~ 2.54	2.81		
H	Injected EVO Concentration (%)	(G / C)	1.1	0.99	1.09	1.04		
I	Is (H) between 0.95 and 1.05%? (Y / N)							
J	If (I) is "N", indicate Test # of retest							
		Comments						

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-2	D-3	D-4	D7	D-6	D-4
	Date		9/28/07	9/28/07	9/28/07	9/28/07	9/28/07	9/28/07
	Time		8:05	8:25	8:30	8:42	—	—
A	Starting Totalizer Reading (gal)		80	95	18	88	31	~~737~~ 744
B	Ending Totalizer Reading (gal)		324	299	371	277	274	1075
C	Volume Injected (gal)	(B - A)	244	204	353	189	243	331
D	Starting EVO Mass (lb)		37.8	33.4	36.0	32.0	~~12~~ 37.0	~~7~~ 40.0
E	Ending EVO Mass (lb)		12.4	16.2	10.2	15.8	17.0	11.00
F	EVO Injected (lb)	(E - D)	21.4	17.2	25.8	16.2	20	
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.61	2.10	3.15	1.98	2.44	
H	Injected EVO Concentration (%)	(G / C)	1.07	1.03	0.89	1.04	1.00	1.07
I	Is (H) between 0.95 and 1.05%? (Y / N)		N	Y	N	Y		
J	If (I) is "N", indicate Test # of retest							
	Comments				Low on EVO			

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →			1	1	1
	Doser ID		D-1	D-2	D-4	D-2	D-3	D-1
	Date		9/28/07	9/28/07	9/28/07	10/1/07	10/1/07	10/1/07
	Time		9:31	10:51	11:14	8:00	8:23	9:02
A	Starting Totalizer Reading (gal)		34	184	35	0	38	~~102~~ (28.7) cw
B	Ending Totalizer Reading (gal)		336	350	323	217	256	230
C	Volume Injected (gal)	(B - A)	302	166	288	217	218	201.3
D	Starting EVO Mass (lb)		35.0	40.0	33.6	42.2	39.0 cw	35.8
E	Ending EVO Mass (lb)		10.4	26.0	10.0	23.6	20.0	19.0
F	EVO Injected (lb)	(E - D)	24.6	14	23.6	18.6	19.0	16.8
G	EVO Injected (gal)	(F / 8.18 lb/gal)	3.00	1.71	2.88	2.27	2.32	2.05
H	Injected EVO Concentration (%)	(G / C)	0.99	1.03	1.00	1.047	1.06	1.02
I	Is (H) between 0.95 and 1.05%? (Y / N)		~~0.94~~ Y	Y	Y	Y	N	Y
J	If (I) is "N", indicate Test # of retest							
		Comments					1.06% is over 1.05% But will not change Doser. Will let it go. cw	

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	~~D-4~~ 1	1	1	1	2	
	Doser ID			D-4	D-5	D-6	D-7	D-7	
	Date			10/1/07	10/1/07	10/1/07	10/1/07	10/1/07	
	Time			9:14	9:27	9:57	10:45	11:20	
A	Starting Totalizer Reading (gal)			422	15	31	46	439	
B	Ending Totalizer Reading (gal)			712	221	295	250	717	
C	Volume Injected (gal)	(B - A)		290	206	264	204	278	
D	Starting EVO Mass (lb)			45.8	42.6	38.4	35.2	38.8	
E	Ending EVO Mass (lb)			21.2	25.8	16.4	17	15.6	
F	EVO Injected (lb)	(E - D)		24.6	16.8	22	18.2	23.2	
G	EVO Injected (gal)	(F / 8.18 lb/gal)		3.00	2.05	2.68	2.22	2.83	
H	Injected EVO Concentration (%)	(G / C)		1.03	0.99	1.01	1.09	1.02	
I	Is (H) between 0.95 and 1.05%? (Y / N)			Y	Y	Y	N	Y	
J	If (I) is "N", indicate Test # of retest								
			Comments				Turned doser down, will retest.	Doser D-7 checked and within o/o Standard.	

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →	IP221	IP222	IP223	IP224	IP225A	IP226
	Doser ID			D-3	D-1	D-4	D-7	D-2	D-5
	Date			10/2/07	10/2/07	10/2/07	10/2/07	10/2/07	10/2/07
	Time			8:16	8:24	8:42	8:48	900	908
A	Starting Totalizer Reading (gal)			0	6	37.4	~~38.4~~ 0	~~37.0~~ 10	0
B	Ending Totalizer Reading (gal)			~~199~~ 200	205	206	200	210	201
C	Volume Injected (gal)	(B - A)		200	205	168.6	200	200	201
D	Starting EVO Mass (lb)			36.2	39.0	36.6	38.4	37.0	36.8
E	Ending EVO Mass (lb)			21.~~2~~	22.8	22.8	22.4	~~20.2~~ 19.6	~~16~~ 16.6
F	EVO Injected (lb)	(E - D)		17	16.2	13.8	16	17.4	20.2
G	EVO Injected (gal)	(F / 8.18 lb/gal)		2.078	1.98	1.687	1.956	2.127	2.029
H	Injected EVO Concentration (%)	(G / C)		1.039	.0966	1.00	0.978	1.06	1.01
I	Is (H) between 0.95 and 1.05%? (Y / N)			Y	Y	Y	Y	N	Y
J	If (I) is "N", indicate Test # of retest							IP225B	
		Comments						~~no retest done~~	

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →					
	Doser ID		D-2					
	Date		10/2/07					
	Time		1041					
A	Starting Totalizer Reading (gal)		674					
B	Ending Totalizer Reading (gal)		899					
C	Volume Injected (gal)	(B - A)	225					
D	Starting EVO Mass (lb)		38.4					
E	Ending EVO Mass (lb)		19.4					
F	EVO Injected (lb)	(E - D)	19					
G	EVO Injected (gal)	(F / 8.18 lb/gal)	2.322					
H	Injected EVO Concentration (%)	(G / C)	1.03					
I	Is (H) between 0.95 and 1.05%? (Y / N)		Y					
J	If (I) is "N", indicate Test # of retest							
	Comments							

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

DOSER CALIBRATION LOG
TDY Industries
San Diego, California

Geosyntec consultants

			Test # →						
	Doser ID		D-2	D-1	D-5	D-7	D-4	D-3	D-6
	Date		10/3/07	10/3/07	10/3/07	10/3/07	10/3/07	10/3/07	10/3/07
	Time		9:06	9:21	9:30	9:57	10:29	10:35	10:58
A	Starting Totalizer Reading (gal)		850	908	2495	1052	971	727	632
B	Ending Totalizer Reading (gal)		1161	1127	2767	1222	1224	917	914
C	Volume Injected (gal)	(B - A)	311	219	272	170	253	190	282
D	Starting EVO Mass (lb)		44.2	38.8	43	39.4	33.8	37.6	38.0
E	Ending EVO Mass (lb)		18.2	10.8	20.6	24.8	12.4	22.0	15.4
F	EVO Injected (lb)	(E - D)	26	28	22.4	14.6	21.4	15.6	22.6
G	EVO Injected (gal)	(F / 8.18 lb/gal)	3.17	3.42	2.73	1.78	2.61	1.90	2.76
H	Injected EVO Concentration (%)	(G / C)	1.02	1.07	1.00	1.04	1.03	1.00	0.98
I	Is (H) between 0.95 and 1.05%? (Y / N)		1.02 Y	N	Y	Y	Y	Y	Y
J	If (I) is "N", indicate Test # of retest								
	Comments			<					

EVO - emulsified vegetable oil (density: 8.18 lb/gal)

ATTACHMENT D

Photographs of Pilot Study

Photo No. 5 Date: 9/24/07

Description: 500 ml of microbial culture being injected at point IP-121. This system allowed for a precise volume of microbial culture to be measured and injected at each point.

Project: TDY Photographer: Dave Skippon

Photo No. 1 Date: 9/12/07

Description: Oil emulsion doser, pressure gauge, and totalizer setup used for the injections in the Building 131/242 area. Field sheets were attached to document injection rates, volumes, and pressures at each injection point.

Project: TDY Photographer: Dave Skippon

Photo No. 2 Date: 9/21/07

Description: Injection rod wrapped in filter material. This material prevented fine sands and silts from clogging the injection rods.

Project: TDY Photographer: Dave Skippon

Photo No. 3 Date: 9/24/07

Description: Municipal water was delivered to the injection points through a manifold system, allowing up to seven injections to occur simultaneously from a single water source.

Project: TDY Photographer: Dave Skippon

Photo No. 4 Date: 9/21/07

Description: Injection of pre-batched anaerobic water. The anaerobic water protects the microbial culture until the balance of the injected water becomes anaerobic. The large storage tank in the background was used to produce batches of anaerobic water for injection, which was transported in the small foreground tank.

Project: TDY Photographer: Dave Skippon

APPENDIX H

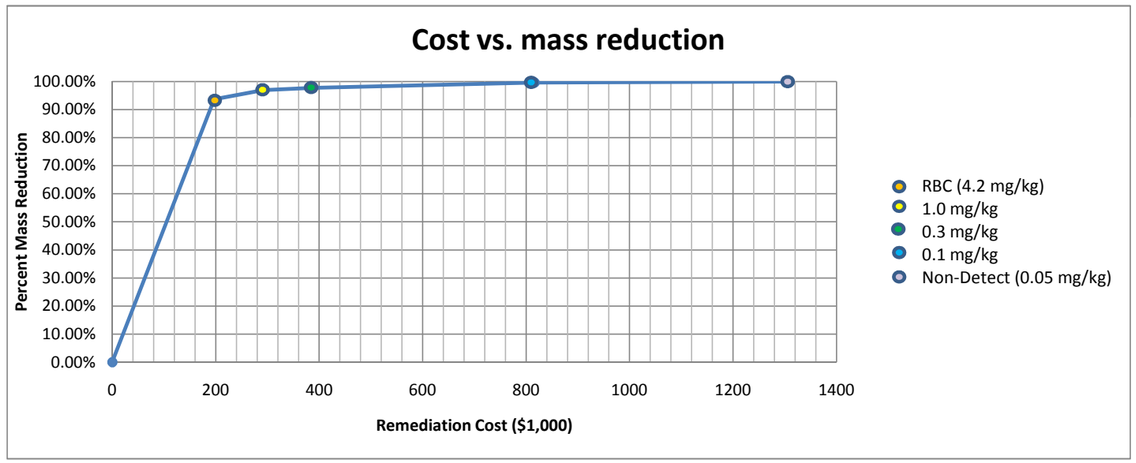
ECONOMIC FEASIBILITY ANALYSIS TABLES FOR ALTERNATIVE PCB CLEANUP GOAL

Alternate PCB Goal Calculation Worksheet

A	B	C	D	E	F	G	H	I	J	K	L	M	N
2		total PCB mass(mg)	cumulative % mass	Ind. % mass	Excavation cost								
3	above 4.2 (25 mg/kg ave)	6325000	0.916188655	0.916188655			Cleanup Goal	PCBs mass (kg)	% of total mass	Volume of Soil (cy)	percent removed	estimated cost	Cost per % mass removed
4	above 4.2 (6.5 mg/kg ave)	143000	0.936902486	0.02071383	197000		4.2 mg/kg	6.468	93.7%	250.0	93.7%	$ 197,000.00	$2,103
5	above 1 (2 mg/kg ave)	220000	0.968769917	0.031867431	94500		1 mg/kg	0.220	3.2%	100.0	96.9%	$ 94,500.00	$29,654
6	above .3 (.5 mg/kg ave)	55000	0.976736775	0.007966858	94500		0.3 mg/kg	0.055	0.8%	100.0	97.7%	$ 94,500.00	$118,616
7	above .1 (.2 mg/kg ave)	132000	0.995857234	0.019120459	430250		0.1 mg/kg	0.132	1.9%	600.0	99.6%	$ 430,250.00	$225,021
8	above ND (.05 mg/kg ave)	28600	1	0.004142766	491400		ND<0.05 mg/kg	0.029	0.4%	520.0	100.0%	$ 491,400.00	$1,186,164
9	Total	6903600											
10													
11			cost ($1,000)	% Removed									
12			0	0									
13		RBC	$ 197.00	93.7%									
14		1 mg/kg	$ 291.50	96.9%									
15		.3 mg/kg	$ 386.00	97.7%									
16		.1 mg/kg	$ 816.25	99.6%									
17		ND	$ 1,307.65	100.0%									
18													
19		soil density (kg/yd3)	soil volume (yd3)	soil mass (kg)	ave. PCB conc.(mg/kg)	mass (mg)							
20	above 4.2	1100	230	253000	25	6325000							
21	above 4.2	1100	20	22000	6.5	143000							
22	above 1	1100	100	110000	2	220000							
23	above .3	1100	100	110000	0.5	55000							
24	above .1	1100	600	660000	0.2	132000							
25	above ND	1100	520	572000	0.05	28600							

Soil Volume Estimate Assumptions:

Above 4.2 mg/kg - Area 1: 30 inch East SWCS excavations - 25 mg/kg ave -	1- 10x10x5 excavation 2- 10x20x8 excavations 1- 10x30x8 excavation
Estimated volumes Based on confirmation sampling from 30-inch SWCS removal and replacement	
Above 4.2 mg/kg - Building 156 excavation - 6.5 mg/kg ave 6.5 mg/kg ave- Based on actual post-ex results from interim action	1- 10x10x5 excavation
Above 1 mg/kg - Based on five known single point exceedances	5- 10x10x5 excavations
Above 0.3 mg/kg - Based on five known single point exceedances	5- 10x10x5 excavations
Above 0.1 mg/kg -	4- 10x10x5 excavations 2-40x20x8 excavations
Based on 4 single point exceedances and estimated excavations in Building 120 South AOC	
above ND - Based on 26 known single point exceedances	26-10x10x5 excavations



Alternate PCB Goal Calculation Worksheet

A	B	C	D	E	F	G	H	I	J	K	L	M	N
2		total PCB mass(mg)	cumulative % mass	Ind. % mass	Excavation cost								
3	above 4.2 (25 mg/kg ave)	=G20	=C3/C9	=D3			Cleanup Goal	PCBs mass (kg)	% of total mass	Volume of Soil (cy)	percent removed	estimated cost	Cost per % mass removed
4	above 4.2 (6.5 mg/kg ave)	=G21	=SUM(C3:C4)/C9	=D4-D3	197000		4.2 mg/kg	=(C4+C3)/1000000	=E3+E4	=SUM(D20:D21)	=D4	=F4	=M4/(J4*100)
5	above 1 (2 mg/kg ave)	=G22	=SUM(C3:C5)/C9	=D5-D4	94500		1 mg/kg	=C5/1000000	=E5	=D22	=D5	=F5	=M5/(J5*100)
6	above .3 (.5 mg/kg ave)	=G23	=SUM(C3:C6)/C9	=D6-D5	94500		0.3 mg/kg	=C6/1000000	=E6	=D23	=D6	=F6	=M6/(J6*100)
7	above .1 (.2 mg/kg ave)	=G24	=SUM(C3:C7)/C9	=D7-D6	430250		0.1 mg/kg	=C7/1000000	=E7	=D24	=D7	=F7	=M7/(J7*100)
8	above ND (.05 mg/kg ave)	=G25	=SUM(C3:C8)/C9	=D8-D7	491400		ND<0.05 mg/kg	=C8/1000000	=E8	=D25	=D8	=F8	=M8/(J8*100)
9	Total	=SUM(C3:C8)											
10													
11			cost ($1,000)	% Removed									
12			0	0									
13		RBC	=M4/1000	=L4									
14		1 mg/kg	=SUM(M4:M5)/1000	=L5									
15		.3 mg/kg	=SUM(M4:M6)/1000	=L6									
16		.1 mg/kg	=SUM(M4:M7)/1000	=L7									
17		ND	=SUM(M4:M8)/1000	=L8									
18													
19		soil density (kg/yd3)	soil volume (yd3)	soil mass (kg)	ave. PCB conc.(mg/kg)	mass (mg)							
20	above 4.2	1100	230	=D20*C20	25	=F20*E20							
21	above 4.2	1100	20	=D21*C21	6.5	=F21*E21							
22	above 1	1100	100	=D22*C22	2	=F22*E22							
23	above .3	1100	100	=D23*C23	0.5	=F23*E23							
24	above .1	1100	600	=D24*C24	0.2	=F24*E24							
25	above ND	1100	520	=D25*C25	0.05	=F25*E25							

Soil Volume Estimate Assumptions:

Above 4.2 mg/kg - Area 1: 30 inch East SWCS excavations - 25 mg/kg ave -	1- 10x10x5 excavation 2- 10x20x8 excavations 1- 10x30x8 excavation
Estimated volumes Based on confirmation sampling from 30-inch SWCS removal and replacement	
Above 4.2 mg/kg - Building 156 excavation - 6.5 mg/kg ave 6.5 mg/kg ave- Based on actual post-ex results from interim action	1- 10x10x5 excavation
Above 1 mg/kg - Based on five known single point exceedances	5- 10x10x5 excavations
Above 0.3 mg/kg - Based on five known single point exceedances	5- 10x10x5 excavations
Above 0.1 mg/kg -	4- 10x10x5 excavations 2-40x20x8 excavations
Based on 4 single point exceedances and estimated excavations in Building 120 South AOC	
above ND - Based on 26 known single point exceedances	26-10x10x5 excavations