User canceled analysis.

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Analysis Begun

Start Time: 10/17/2012 2:37:59 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 63
Sample ID: ICP_CCB(Daily)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 8
Date Collected: 10/17/2012 2:37:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	2702.3	0.0208	mg/L	0.00048	0.0208	mg/L	0.00048	2.29%
Al 308.215	99.7	0.0029	mg/L	0.00169	0.0029	mg/L	0.00169	57.99%
As 188.979	21.4	0.0039	mg/L	0.00044	0.0039	mg/L	0.00044	11.35%
B 249.677	-3391.7	-0.0384	mg/L	0.00004	-0.0384	mg/L	0.00004	0.10%
Ba 233.527	69.5	0.0007	mg/L	0.00000	0.0007	mg/L	0.00000	0.43%
Be 313.107	816.3	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	17.67%
Bi 223.061	5.6	0.0026	mg/L	0.00061	0.0026	mg/L	0.00061	23.67%
Bi 190.171	1.0	0.0012	mg/L	0.00447	0.0012	mg/L	0.00447	359.21%
Ca 315.887	16.9	0.0084	mg/L	0.00455	0.0084	mg/L	0.00455	54.50%
Ca 317.933	36.9	0.0154	mg/L	0.00199	0.0154	mg/L	0.00199	12.90%
Cd 214.440	7.7	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	11.10%
Co 228.616	22.0	0.0009	mg/L	0.00040	0.0009	mg/L	0.00040	46.87%
Cr 267.716	22.6	0.0006	mg/L	0.00031	0.0006	mg/L	0.00031	52.95%
Cu 324.752	151.1	0.0005	mg/L	0.00042	0.0005	mg/L	0.00042	83.67%
Fe 238.204	94.7	0.0024	mg/L	0.00012	0.0024	mg/L	0.00012	5.01%
Fe 273.955	102.0	0.0061	mg/L	0.00003	0.0061	mg/L	0.00003	0.42%
K 766.490	94.7	0.0359	mg/L	0.03041	0.0359	mg/L	0.03041	84.80%
Mg 279.077	2.1	0.0094	mg/L	0.00988	0.0094	mg/L	0.00988	105.60%
Mn 257.610	280.0	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	2.52%
Mo 202.031	12.7	0.0029	mg/L	0.00096	0.0029	mg/L	0.00096	33.79%
QC value less than the lower limit for Mo 202.031				Recovery = 0.29%				
Na 589.592	251.3	0.0423	mg/L	0.00146	0.0423	mg/L	0.00146	3.45%
Na 330.237	1.8	0.2554	mg/L	0.28161	0.2554	mg/L	0.28161	110.26%
Ni 231.604	4.2	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	62.72%
Pb 220.353	49.1	0.0025	mg/L	0.00288	0.0025	mg/L	0.00288	115.15%
Sb 206.836	5.4	0.0049	mg/L	0.00408	0.0049	mg/L	0.00408	82.72%
QC value less than the lower limit for Sb 206.836				Recovery = 0.49%				
Se 196.026	-93.9	-0.0120	mg/L	0.01042	-0.0120	mg/L	0.01042	86.89%
Sn 189.927	-2.4	-0.0008	mg/L	0.00023	-0.0008	mg/L	0.00023	29.73%
Sr 407.771	263.0	0.0006	mg/L	0.00014	0.0006	mg/L	0.00014	22.55%
Sr 421.552	110.2	0.0005	mg/L	0.00033	0.0005	mg/L	0.00033	71.56%
Ti 334.940	46.4	0.0001	mg/L	0.00027	0.0001	mg/L	0.00027	214.31%
Tl 190.801	8.9	0.0016	mg/L	0.00196	0.0016	mg/L	0.00196	122.31%
V 290.880	201.0	0.0013	mg/L	0.00012	0.0013	mg/L	0.00012	9.48%
W 207.912	-2.2	-0.0009	mg/L	0.00008	-0.0009	mg/L	0.00008	8.55%
Y 371.029	1643.5						99.15	6.03%
Zn 206.200	6.0	0.0004	mg/L	0.00028	0.0004	mg/L	0.00028	68.95%
P 213.617	4.9	0.0036	mg/L	0.00199	0.0036	mg/L	0.00199	55.86%
Si 251.611	114.7	0.0029	mg/L	0.00027	0.0029	mg/L	0.00027	9.17%
Li 670.784	421.7	0.0064	mg/L	0.00063	0.0064	mg/L	0.00063	9.78%
Li 610.362	200.8	0.0291	mg/L	0.01499	0.0291	mg/L	0.01499	51.52%
S 181.975	5.5	0.0226	mg/L	0.01293	0.0226	mg/L	0.01293	57.19%

QC Failed. Continue with analysis.

ALAB : 00149

Analysis Begun

Start Time: 10/17/2012 3:12:17 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901Autosampler Model: AS-93plus
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 74
Sample ID: ICP_CCV(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 7
Date Collected: 10/17/2012 3:12:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	64922.5	0.5000	mg/L	0.00339	0.5000	mg/L	0.00339	0.68%
QC value within limits for Ag 328.068 Recovery = 100.00%								
Al 308.215	35157.7	1.025	mg/L	0.0047	1.025	mg/L	0.0047	0.46%
QC value within limits for Al 308.215 Recovery = 102.53%								
As 188.979	5583.3	1.008	mg/L	0.0019	1.008	mg/L	0.0019	0.19%
QC value within limits for As 188.979 Recovery = 100.83%								
B 249.677	80498.8	0.9106	mg/L	0.01190	0.9106	mg/L	0.01190	1.31%
QC value within limits for B 249.677 Recovery = 91.06%								
Ba 233.527	109735.5	1.065	mg/L	0.0092	1.065	mg/L	0.0092	0.87%
QC value within limits for Ba 233.527 Recovery = 106.53%								
Be 313.107	2221028.4	1.003	mg/L	0.0631	1.003	mg/L	0.0631	6.28%
QC value within limits for Be 313.107 Recovery = 100.35%								
Bi 223.061	-46.6	-0.0215	mg/L	0.00119	-0.0215	mg/L	0.00119	5.53%
Bi 190.171	3.6	0.0044	mg/L	0.00155	0.0044	mg/L	0.00155	35.12%
Ca 315.887	2473.8	1.221	mg/L	0.0050	1.221	mg/L	0.0050	0.41%
Ca 317.933	2938.3	1.226	mg/L	0.0063	1.226	mg/L	0.0063	0.51%
Cd 214.440	44753.3	1.010	mg/L	0.0157	1.010	mg/L	0.0157	1.56%
QC value within limits for Cd 214.440 Recovery = 100.96%								
Co 228.616	26394.4	1.034	mg/L	0.0081	1.034	mg/L	0.0081	0.78%
QC value within limits for Co 228.616 Recovery = 103.37%								
Cr 267.716	40773.2	1.056	mg/L	0.0147	1.056	mg/L	0.0147	1.39%
QC value within limits for Cr 267.716 Recovery = 105.62%								
Cu 324.752	287416.2	0.9649	mg/L	0.06340	0.9649	mg/L	0.06340	6.57%
QC value within limits for Cu 324.752 Recovery = 96.49%								
Fe 238.204	41945.7	1.064	mg/L	0.0093	1.064	mg/L	0.0093	0.88%
QC value within limits for Fe 238.204 Recovery = 106.42%								
Fe 273.955	17350.5	1.042	mg/L	0.0069	1.042	mg/L	0.0069	0.66%
QC value within limits for Fe 273.955 Recovery = 104.21%								
K 766.490	28588.4	10.82	mg/L	0.280	10,82	mg/L	0.280	2.59%
Mg 279.077	272.2	1.216	mg/L	0.0282	1.216	mg/L	0.0282	2.32%
Mn 257.610	441814.5	1.028	mg/L	0.0633	1.028	mg/L	0.0633	6.16%
QC value within limits for Mn 257.610 Recovery = 102.84%								
Mo 202.031	4527.0	1.015	mg/L	0.0027	1.015	mg/L	0.0027	0.27%
QC value within limits for Mo 202.031 Recovery = 101.50%								
Na 589.592	7034.6	1.184	mg/L	0.0378	1.184	mg/L	0.0378	3.19%
Na 330.237	-17.9	-2.471	mg/L	0.7663	-2.471	mg/L	0.7663	31.01%
Ni 231.604	19533.7	1.042	mg/L	0.0146	1.042	mg/L	0.0146	1.40%
QC value within limits for Ni 231.604 Recovery = 104.23%								
Pb 220.353	20452.4	1.040	mg/L	0.0070	1.040	mg/L	0.0070	0.67%
QC value within limits for Pb 220.353 Recovery = 104.02%								
Sb 206.836	1051.9	0.9577	mg/L	0.00666	0.9577	mg/L	0.00666	0.70%
QC value within limits for Sb 206.836 Recovery = 95.77%								
Se 196.026	8001.5	1.021	mg/L	0.0077	1.021	mg/L	0.0077	0.76%
QC value within limits for Se 196.026 Recovery = 102.14%								
Sn 189.927	-6.9	-0.0022	mg/L	0.00165	-0.0022	mg/L	0.00165	73.22%
Sr 407.771	418111.6	0.9720	mg/L	0.02597	0.9720	mg/L	0.02597	2.67%
QC value within limits for Sr 407.771 Recovery = 97.20%								
Sr 421.552	235597.8	0.9800	mg/L	0.02684	0.9800	mg/L	0.02684	2.74%
QC value within limits for Sr 421.552 Recovery = 98.00%								
Ti 334.940	378369.7	1.028	mg/L	0.0622	1.028	mg/L	0.0622	6.05%
QC value within limits for Ti 334.940 Recovery = 102.79%								
Tl 190.801	5850.2	1.058	mg/L	0.0084	1.058	mg/L	0.0084	0.79%

W 207.912	22.6	0.0091 mg/L	0.00279	0.0091 mg/L	0.00279	30.51%
Y 371.029	1634.4				105.53	6.46%
Zn 206.200	15079.1	1.025 mg/L	0.0067	1.025 mg/L	0.0067	0.65%
QC value within limits for Zn 206.200 Recovery = 102.46%						
P 213.617	-1860.0	-1.368 mg/L	0.0613	-1.368 mg/L	0.0613	4.48%
Si 251.611	39296.9	1.002 mg/L	0.0051	1.002 mg/L	0.0051	0.51%
QC value within limits for Si 251.611 Recovery = 100.18%						
Li 670.784	66089.0	1.007 mg/L	0.0332	1.007 mg/L	0.0332	3.30%
Li 610.362	6671.0	0.9661 mg/L	0.10413	0.9661 mg/L	0.10413	10.78%
S 181.975	6.8	0.0278 mg/L	0.03769	0.0278 mg/L	0.03769	135.52%

All analyte(s) passed QC.

ALAB:00151

User canceled analysis.

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Analysis Begun

Start Time: 10/17/2012 3:14:18 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 76
Sample ID: ICP_CCB(Daily)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 8
Date Collected: 10/17/2012 3:14:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	2454.7	0.0189	mg/L	0.00008	0.0189	mg/L	0.00008	0.42%
Al 308.215	28.4	0.0008	mg/L	0.00032	0.0008	mg/L	0.00032	38.25%
As 188.979	14.3	0.0026	mg/L	0.00257	0.0026	mg/L	0.00257	99.18%
B 249.677	-3843.8	-0.0435	mg/L	0.00040	-0.0435	mg/L	0.00040	0.92%
Ba 233.527	141.2	0.0014	mg/L	0.00016	0.0014	mg/L	0.00016	11.97%
Be 313.107	2306.9	0.0010	mg/L	0.00013	0.0010	mg/L	0.00013	12.48%
Bi 223.061	0.5	0.0002	mg/L	0.00092	0.0002	mg/L	0.00092	378.21%
Bi 190.171	1.9	0.0024	mg/L	0.00503	0.0024	mg/L	0.00503	210.73%
Ca 315.887	29.6	0.0146	mg/L	0.00111	0.0146	mg/L	0.00111	7.56%
Ca 317.933	31.3	0.0130	mg/L	0.00401	0.0130	mg/L	0.00401	30.72%
Cd 214.440	50.4	0.0011	mg/L	0.00027	0.0011	mg/L	0.00027	24.17%
Co 228.616	34.2	0.0013	mg/L	0.00007	0.0013	mg/L	0.00007	5.54%
Cr 267.716	56.6	0.0015	mg/L	0.00015	0.0015	mg/L	0.00015	10.46%
Cu 324.752	346.3	0.0012	mg/L	0.00050	0.0012	mg/L	0.00050	43.01%
Fe 238.204	89.5	0.0023	mg/L	0.00002	0.0023	mg/L	0.00002	1.02%
Fe 273.955	101.3	0.0061	mg/L	0.00026	0.0061	mg/L	0.00026	4.21%
K 766.490	63.5	0.0241	mg/L	0.02343	0.0241	mg/L	0.02343	97.40%
Mg 279.077	10.1	0.0450	mg/L	0.00247	0.0450	mg/L	0.00247	5.49%
Mn 257.610	543.3	0.0013	mg/L	0.00012	0.0013	mg/L	0.00012	9.79%
Mo 202.031	17.1	0.0038	mg/L	0.00027	0.0038	mg/L	0.00027	6.96%
QC value less than the lower limit for Mo 202.031				Recovery = 0.38%				
Na 589.592	393.9	0.0663	mg/L	0.00057	0.0663	mg/L	0.00057	0.86%
Na 330.237	-2.8	-0.3832	mg/L	0.95136	-0.3832	mg/L	0.95136	248.26%
Ni 231.604	15.4	0.0008	mg/L	0.00049	0.0008	mg/L	0.00049	59.30%
Pb 220.353	67.9	0.0035	mg/L	0.00159	0.0035	mg/L	0.00159	45.95%
Sb 206.836	4.7	0.0043	mg/L	0.00107	0.0043	mg/L	0.00107	24.97%
QC value less than the lower limit for Sb 206.836				Recovery = 0.43%				
Se 196.026	23.1	0.0030	mg/L	0.00340	0.0030	mg/L	0.00340	115.36%
Sn 189.927	-0.4	-0.0001	mg/L	0.00176	-0.0001	mg/L	0.00176	>999.9%
Sr 407.771	837.5	0.0019	mg/L	0.00008	0.0019	mg/L	0.00008	3.99%
Sr 421.552	395.8	0.0016	mg/L	0.00036	0.0016	mg/L	0.00036	21.82%
Ti 334.940	418.1	0.0011	mg/L	0.00011	0.0011	mg/L	0.00011	10.02%
Tl 190.801	15.2	0.0027	mg/L	0.00175	0.0027	mg/L	0.00175	63.92%
V 290.880	311.7	0.0020	mg/L	0.00021	0.0020	mg/L	0.00021	10.29%
W 207.912	-2.4	-0.0010	mg/L	0.00081	-0.0010	mg/L	0.00081	83.72%
Y 371.029	1600.6						121.85	7.61%
Zn 206.200	17.9	0.0012	mg/L	0.00026	0.0012	mg/L	0.00026	21.22%
P 213.617	-0.8	-0.0006	mg/L	0.00042	-0.0006	mg/L	0.00042	70.67%
Si 251.611	363.3	0.0093	mg/L	0.00025	0.0093	mg/L	0.00025	2.67%
Li 670.784	287.2	0.0044	mg/L	0.00504	0.0044	mg/L	0.00504	115.11%
Li 610.362	10.8	0.0016	mg/L	0.01382	0.0016	mg/L	0.01382	881.00%
S 181.975	-2.3	-0.0093	mg/L	0.00783	-0.0093	mg/L	0.00783	84.47%

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 10/17/2012 3:46:40 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 87
Sample ID: ICP_CCV(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 7
Date Collected: 10/17/2012 3:46:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	63944.0	0.4925	mg/L	0.00440	0.4925	mg/L	0.00440	0.89%
QC value within limits for Ag 328.068 Recovery = 98.49%								
Al 308.215	34703.1	1.012	mg/L	0.0243	1.012	mg/L	0.0243	2.40%
QC value within limits for Al 308.215 Recovery = 101.20%								
As 188.979	5318.6	0.9605	mg/L	0.01825	0.9605	mg/L	0.01825	1.90%
QC value within limits for As 188.979 Recovery = 96.05%								
B 249.677	78840.0	0.8918	mg/L	0.01138	0.8918	mg/L	0.01138	1.28%
QC value less than the lower limit for B 249.677 Recovery = 89.18%								
Ba 233.527	107629.6	1.045	mg/L	0.0068	1.045	mg/L	0.0068	0.65%
QC value within limits for Ba 233.527 Recovery = 104.49%								
Be 313.107	2186146.0	0.9877	mg/L	0.01789	0.9877	mg/L	0.01789	1.81%
QC value within limits for Be 313.107 Recovery = 98.77%								
Bi 223.061	-44.1	-0.0203	mg/L	0.00363	-0.0203	mg/L	0.00363	17.89%
Bi 190.171	1.7	0.0022	mg/L	0.00304	0.0022	mg/L	0.00304	141.10%
Ca 315.887	2431.2	1.075	mg/L	0.0002	1.075	mg/L	0.0002	0.02%
Ca 317.933	2894.5	1.078	mg/L	0.0058	1.078	mg/L	0.0058	0.53%
Cd 214.440	43125.8	0.9729	mg/L	0.00176	0.9729	mg/L	0.00176	0.18%
QC value within limits for Cd 214.440 Recovery = 97.29%								
Co 228.616	25947.5	1.016	mg/L	0.0092	1.016	mg/L	0.0092	0.91%
QC value within limits for Co 228.616 Recovery = 101.62%								
Cr 267.716	39969.6	1.035	mg/L	0.0051	1.035	mg/L	0.0051	0.49%
QC value within limits for Cr 267.716 Recovery = 103.54%								
Cu 324.752	287461.6	0.9650	mg/L	0.02541	0.9650	mg/L	0.02541	2.63%
QC value within limits for Cu 324.752 Recovery = 96.50%								
Fe 238.204	40624.0	1.031	mg/L	0.0100	1.031	mg/L	0.0100	0.97%
QC value within limits for Fe 238.204 Recovery = 103.06%								
Fe 273.955	17064.2	1.025	mg/L	0.0023	1.025	mg/L	0.0023	0.23%
QC value within limits for Fe 273.955 Recovery = 102.49%								
K 766.490	28082.1	9.582	mg/L	0.1460	9.582	mg/L	0.1460	1.52%
Mg 279.077	265.1	1.101	mg/L	0.0051	1.101	mg/L	0.0051	0.46%
Mn 257.610	427387.3	0.9948	mg/L	0.01581	0.9948	mg/L	0.01581	1.59%
QC value within limits for Mn 257.610 Recovery = 99.48%								
Mo 202.031	4355.4	0.9765	mg/L	0.01119	0.9765	mg/L	0.01119	1.15%
QC value within limits for Mo 202.031 Recovery = 97.65%								
Na 589.592	7394.4	1.120	mg/L	0.0481	1.120	mg/L	0.0481	4.29%
Na 330.237	-19.3	-2.503	mg/L	0.3345	-2.503	mg/L	0.3345	13.36%
Ni 231.604	19220.7	1.026	mg/L	0.0030	1.026	mg/L	0.0030	0.29%
QC value within limits for Ni 231.604 Recovery = 102.56%								
Pb 220.353	19663.5	1.000	mg/L	0.0032	1.000	mg/L	0.0032	0.32%
QC value within limits for Pb 220.353 Recovery = 100.01%								
Sb 206.836	1007.6	0.9174	mg/L	0.00673	0.9174	mg/L	0.00673	0.73%
QC value within limits for Sb 206.836 Recovery = 91.74%								
Se 196.026	7703.5	0.9834	mg/L	0.02644	0.9834	mg/L	0.02644	2.69%
QC value within limits for Se 196.026 Recovery = 98.34%								
Sn 189.927	-10.3	-0.0033	mg/L	0.00134	-0.0033	mg/L	0.00134	40.09%
Sr 407.771	408181.4	0.9489	mg/L	0.01401	0.9489	mg/L	0.01401	1.48%
QC value within limits for Sr 407.771 Recovery = 94.89%								
Sr 421.552	232139.7	0.9656	mg/L	0.00282	0.9656	mg/L	0.00282	0.29%
QC value within limits for Sr 421.552 Recovery = 96.56%								
Ti 334.940	371889.7	1.010	mg/L	0.0219	1.010	mg/L	0.0219	2.17%
QC value within limits for Ti 334.940 Recovery = 101.03%								
Tl 190.801	5608.9	1.014	mg/L	0.0082	1.014	mg/L	0.0082	0.81%

W 207.912	20.8	0.0084 mg/L	0.00209	0.0084 mg/L	0.00209	24.83%
Y 371.029	1725.1				25.46	1.48%
Zn 206.200	14625.1	0.9937 mg/L	0.00048	0.9937 mg/L	0.00048	0.05%
QC value within limits for Zn 206.200 Recovery = 99.37%						
P 213.617	-1768.2	-1.301 mg/L	0.0209	-1.301 mg/L	0.0209	1.60%
Si 251.611	38687.4	0.9863 mg/L	0.01002	0.9863 mg/L	0.01002	1.02%
QC value within limits for Si 251.611 Recovery = 98.63%						
Li 670.784	65266.4	0.9949 mg/L	0.01639	0.9949 mg/L	0.01639	1.65%
Li 610.362	6837.0	0.9901 mg/L	0.06638	0.9901 mg/L	0.06638	6.70%
S 181.975	10.3	0.0423 mg/L	0.00069	0.0423 mg/L	0.00069	1.62%

QC Failed. Continue with analysis.

Sequence No.: 88
Sample ID: ICP_CCVGM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/17/2012 3:49:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	69.7	0.0005	mg/L	0.00035	0.0005	mg/L	0.00035	64.86%
Al 308.215	53.9	0.0016	mg/L	0.00084	0.0016	mg/L	0.00084	53.67%
As 188.979	-32.6	-0.0059	mg/L	0.00675	-0.0059	mg/L	0.00675	114.90%
B 249.677	-3600.0	-0.0407	mg/L	0.00052	-0.0407	mg/L	0.00052	1.26%
Ba 233.527	93.4	0.0009	mg/L	0.00000	0.0009	mg/L	0.00000	0.27%
Be 313.107	690.1	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	14.92%
Bi 223.061	16.0	0.0074	mg/L	0.00496	0.0074	mg/L	0.00496	67.28%
Bi 190.171	17.1	0.0211	mg/L	0.00149	0.0211	mg/L	0.00149	7.03%
Ca 315.887	224772.5	99.42	mg/L	2.398	99.42	mg/L	2.398	2.41%
QC value within limits for Ca 315.887 Recovery = 99.42%								
Ca 317.933	266034.9	99.08	mg/L	2.496	99.08	mg/L	2.496	2.52%
QC value within limits for Ca 317.933 Recovery = 99.08%								
Cd 214.440	-31.7	-0.0007	mg/L	0.00005	-0.0007	mg/L	0.00005	7.37%
Co 228.616	27.6	0.0011	mg/L	0.00016	0.0011	mg/L	0.00016	15.06%
Cr 267.716	103.0	0.0027	mg/L	0.00005	0.0027	mg/L	0.00005	1.97%
Cu 324.752	1079.4	0.0036	mg/L	0.00031	0.0036	mg/L	0.00031	8.43%
Fe 238.204	182.2	0.0046	mg/L	0.00006	0.0046	mg/L	0.00006	1.31%
Fe 273.955	12.7	0.0008	mg/L	0.00074	0.0008	mg/L	0.00074	97.07%
K 766.490	292640.3	99.85	mg/L	1.461	99.85	mg/L	1.461	1.46%
QC value within limits for K 766.490 Recovery = 99.85%								
Mg 279.077	24362.0	101.2	mg/L	0.67	101.2	mg/L	0.67	0.66%
QC value within limits for Mg 279.077 Recovery = 101.21%								
Mn 257.610	1578.6	0.0037	mg/L	0.00002	0.0037	mg/L	0.00002	0.47%
Mo 202.031	36.1	0.0081	mg/L	0.00011	0.0081	mg/L	0.00011	1.37%
Na 589.592	653415.9	98.97	mg/L	1.076	98.97	mg/L	1.076	1.09%
QC value within limits for Na 589.592 Recovery = 98.97%								
Na 330.237	782.0	101.6	mg/L	0.84	101.6	mg/L	0.84	0.83%
QC value within limits for Na 330.237 Recovery = 101.64%								
Ni 231.604	13.6	0.0007	mg/L	0.00016	0.0007	mg/L	0.00016	22.56%
Pb 220.353	91.9	0.0047	mg/L	0.00130	0.0047	mg/L	0.00130	27.86%
Sb 206.836	-14.4	-0.0131	mg/L	0.00204	-0.0131	mg/L	0.00204	15.59%
Se 196.026	-211.7	-0.0270	mg/L	0.00629	-0.0270	mg/L	0.00629	23.29%
Sn 189.927	-103.8	-0.0337	mg/L	0.00023	-0.0337	mg/L	0.00023	0.69%
Sr 407.771	468.8	0.0011	mg/L	0.00006	0.0011	mg/L	0.00006	5.13%
Sr 421.552	229.0	0.0010	mg/L	0.00012	0.0010	mg/L	0.00012	12.35%
Ti 334.940	3443.7	0.0094	mg/L	0.00009	0.0094	mg/L	0.00009	0.97%
Tl 190.801	-76.0	-0.0137	mg/L	0.00172	-0.0137	mg/L	0.00172	12.53%
V 290.880	-722.8	-0.0047	mg/L	0.00071	-0.0047	mg/L	0.00071	15.21%
W 207.912	7.8	0.0032	mg/L	0.00201	0.0032	mg/L	0.00201	63.59%
Y 371.029	1450.8						35.63	2.46%
Zn 206.200	3.5	0.0002	mg/L	0.00064	0.0002	mg/L	0.00064	268.61%
P 213.617	-12.2	-0.0090	mg/L	0.00948	-0.0090	mg/L	0.00948	105.65%
Si 251.611	739.9	0.0189	mg/L	0.00050	0.0189	mg/L	0.00050	2.63%
Li 670.784	88.5	0.0013	mg/L	0.00449	0.0013	mg/L	0.00449	333.00%
Li 610.362	-1781.3	-0.2580	mg/L	0.06984	-0.2580	mg/L	0.06984	27.07%
S 181.975	6.0	0.0245	mg/L	0.02265	0.0245	mg/L	0.02265	92.45%

All analyte(s) passed QC.

ALAB:00155

Sequence No.: 89
Sample ID: ICP_CCB(Daily)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/17/2012 3:51:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	2302.5	0.0177	mg/L	0.00013	0.0177	mg/L	0.00013	0.71%
Al 308.215	13.3	0.0004	mg/L	0.00044	0.0004	mg/L	0.00044	114.02%
As 188.979	25.8	0.0047	mg/L	0.00002	0.0047	mg/L	0.00002	0.39%
B 249.677	-4360.9	-0.0493	mg/L	0.00010	-0.0493	mg/L	0.00010	0.21%
Ba 233.527	37.3	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	19.54%
Be 313.107	448.6	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	7.70%
Bi 223.061	8.0	0.0037	mg/L	0.00355	0.0037	mg/L	0.00355	95.99%
Bi 190.171	1.3	0.0015	mg/L	0.00309	0.0015	mg/L	0.00309	199.49%
Ca 315.887	141.7	0.0627	mg/L	0.00263	0.0627	mg/L	0.00263	4.20%
Ca 317.933	169.1	0.0630	mg/L	0.00791	0.0630	mg/L	0.00791	12.56%
Cd 214.440	4.5	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	60.23%
Co 228.616	9.9	0.0004	mg/L	0.00012	0.0004	mg/L	0.00012	30.57%
Cr 267.716	21.0	0.0005	mg/L	0.00019	0.0005	mg/L	0.00019	34.79%
Cu 324.752	154.5	0.0005	mg/L	0.00019	0.0005	mg/L	0.00019	36.86%
Fe 238.204	43.6	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	5.97%
Fe 273.955	95.4	0.0057	mg/L	0.00072	0.0057	mg/L	0.00072	12.53%
K 766.490	692.8	0.2364	mg/L	0.03518	0.2364	mg/L	0.03518	14.88%
Mg 279.077	18.4	0.0765	mg/L	0.00890	0.0765	mg/L	0.00890	11.63%
Mn 257.610	166.0	0.0004	mg/L	0.00004	0.0004	mg/L	0.00004	9.91%
Mo 202.031	5.7	0.0013	mg/L	0.00006	0.0013	mg/L	0.00006	4.82%
QC value less than the lower limit for Mo 202.031				Recovery = 0.13%				
Na 589.592	1054.0	0.1596	mg/L	0.01119	0.1596	mg/L	0.01119	7.01%
Na 330.237	0.5	0.0593	mg/L	0.33603	0.0593	mg/L	0.33603	566.31%
Ni 231.604	-1.4	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017	222.16%
Pb 220.353	65.6	0.0033	mg/L	0.00266	0.0033	mg/L	0.00266	79.86%
Sb 206.836	-3.0	-0.0028	mg/L	0.00500	-0.0028	mg/L	0.00500	180.81%
QC value less than the lower limit for Sb 206.836				Recovery = -0.28%				
Se 196.026	-113.9	-0.0145	mg/L	0.00319	-0.0145	mg/L	0.00319	21.91%
Sn 189.927	0.5	0.0002	mg/L	0.00040	0.0002	mg/L	0.00040	250.27%
Sr 407.771	138.0	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	29.70%
Sr 421.552	99.8	0.0004	mg/L	0.00015	0.0004	mg/L	0.00015	35.46%
Ti 334.940	-12.3	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	462.02%
Tl 190.801	13.2	0.0024	mg/L	0.00378	0.0024	mg/L	0.00378	157.80%
V 290.880	70.9	0.0005	mg/L	0.00053	0.0005	mg/L	0.00053	116.48%
W 207.912	-6.7	-0.0027	mg/L	0.00028	-0.0027	mg/L	0.00028	10.51%
Y 371.029	1624.9						80.83	4.97%
Zn 206.200	7.5	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.86%
P 213.617	6.2	0.0045	mg/L	0.00220	0.0045	mg/L	0.00220	48.33%
Si 251.611	377.0	0.0096	mg/L	0.00004	0.0096	mg/L	0.00004	0.37%
Li 670.784	106.0	0.0016	mg/L	0.00453	0.0016	mg/L	0.00453	280.33%
Li 610.362	12.6	0.0018	mg/L	0.14910	0.0018	mg/L	0.14910	>999.9%
S 181.975	2.3	0.0093	mg/L	0.01115	0.0093	mg/L	0.01115	120.42%

QC Failed. Continue with analysis.

ALAB : 00155

Sequence No.: 100
Sample ID: ICP_CCV(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 10/17/2012 4:20:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	67974.1	0.5235	mg/L	0.00980	0.5235	mg/L	0.00980	1.87%
QC value within limits for Ag 328.068 Recovery = 104.70%								
Al 308.215	36456.7	1.063	mg/L	0.0192	1.063	mg/L	0.0192	1.81%
QC value within limits for Al 308.215 Recovery = 106.32%								
As 188.979	5459.5	0.9860	mg/L	0.00106	0.9860	mg/L	0.00106	0.11%
QC value within limits for As 188.979 Recovery = 98.60%								
B 249.677	84777.8	0.9590	mg/L	0.01007	0.9590	mg/L	0.01007	1.05%
QC value within limits for B 249.677 Recovery = 95.90%								
Ba 233.527	114022.1	1.107	mg/L	0.0085	1.107	mg/L	0.0085	0.77%
QC value greater than the upper limit for Ba 233.527 Recovery = 110.69%								
Be 313.107	2279299.3	1.030	mg/L	0.0770	1.030	mg/L	0.0770	7.47%
QC value within limits for Be 313.107 Recovery = 102.98%								
Bi 223.061	2.3	0.0011	mg/L	0.00154	0.0011	mg/L	0.00154	142.57%
Bi 190.171	27.6	0.0340	mg/L	0.00703	0.0340	mg/L	0.00703	20.64%
Ca 315.887	2414.8	1.068	mg/L	0.0159	1.068	mg/L	0.0159	1.49%
Ca 317.933	2861.0	1.065	mg/L	0.0141	1.065	mg/L	0.0141	1.32%
Cd 214.440	46149.8	1.041	mg/L	0.0124	1.041	mg/L	0.0124	1.19%
QC value within limits for Cd 214.440 Recovery = 104.11%								
Co 228.616	27231.2	1.067	mg/L	0.0107	1.067	mg/L	0.0107	1.00%
QC value within limits for Co 228.616 Recovery = 106.65%								
Cr 267.716	42565.7	1.103	mg/L	0.0186	1.103	mg/L	0.0186	1.69%
QC value greater than the upper limit for Cr 267.716 Recovery = 110.27%								
Cu 324.752	309917.1	1.040	mg/L	0.0233	1.040	mg/L	0.0233	2.24%
QC value within limits for Cu 324.752 Recovery = 104.04%								
Fe 238.204	43019.1	1.091	mg/L	0.0156	1.091	mg/L	0.0156	1.43%
QC value within limits for Fe 238.204 Recovery = 109.14%								
Fe 273.955	18024.8	1.083	mg/L	0.0197	1.083	mg/L	0.0197	1.82%
QC value within limits for Fe 273.955 Recovery = 108.26%								
K 766.490	28967.0	9.884	mg/L	0.2544	9.884	mg/L	0.2544	2.57%
Mg 279.077	267.4	1.111	mg/L	0.0016	1.111	mg/L	0.0016	0.15%
Mn 257.610	443911.1	1.033	mg/L	0.0624	1.033	mg/L	0.0624	6.04%
QC value within limits for Mn 257.610 Recovery = 103.32%								
Mo 202.031	4730.8	1.061	mg/L	0.0096	1.061	mg/L	0.0096	0.90%
QC value within limits for Mo 202.031 Recovery = 106.07%								
Na 589.592	7239.3	1.097	mg/L	0.1308	1.097	mg/L	0.1308	11.93%
Na 330.237	-9.0	-1.176	mg/L	0.5889	-1.176	mg/L	0.5889	50.10%
Ni 231.604	20277.4	1.082	mg/L	0.0156	1.082	mg/L	0.0156	1.44%
QC value within limits for Ni 231.604 Recovery = 108.20%								
Pb 220.353	21211.7	1.079	mg/L	0.0497	1.079	mg/L	0.0497	4.60%
QC value within limits for Pb 220.353 Recovery = 107.88%								
Sb 206.836	1006.5	0.9164	mg/L	0.01515	0.9164	mg/L	0.01515	1.65%
QC value within limits for Sb 206.836 Recovery = 91.64%								
Se 196.026	7938.5	1.013	mg/L	0.0036	1.013	mg/L	0.0036	0.35%
QC value within limits for Se 196.026 Recovery = 101.34%								
Sn 189.927	33.2	0.0108	mg/L	0.00095	0.0108	mg/L	0.00095	8.84%
Sr 407.771	420258.3	0.9770	mg/L	0.04208	0.9770	mg/L	0.04208	4.31%
QC value within limits for Sr 407.771 Recovery = 97.70%								
Sr 421.552	237336.8	0.9872	mg/L	0.04013	0.9872	mg/L	0.04013	4.07%
QC value within limits for Sr 421.552 Recovery = 98.72%								
Ti 334.940	386244.1	1.049	mg/L	0.0725	1.049	mg/L	0.0725	6.91%
QC value within limits for Ti 334.940 Recovery = 104.93%								
Tl 190.801	5748.1	1.040	mg/L	0.0138	1.040	mg/L	0.0138	1.33%
QC value within limits for Tl 190.801 Recovery = 103.96%								
V 290.880	164483.8	1.065	mg/L	0.0124	1.065	mg/L	0.0124	1.16%
QC value within limits for V 290.880 Recovery = 106.46%								
W 207.912	96.4	0.0389	mg/L	0.00602	0.0389	mg/L	0.00602	15.48%
Y 371.029	1394.9						153.39	11.00%
Zn 206.200	15568.2	1.058	mg/L	0.0027	1.058	mg/L	0.0027	0.26%
QC value within limits for Zn 206.200 Recovery = 105.78%								
P 213.617	-1829.7	-1.346	mg/L	0.0746	-1.346	mg/L	0.0746	5.55%
Si 251.611	45092.8	1.150	mg/L	0.0125	1.150	mg/L	0.0125	1.09%
QC value greater than the upper limit for Si 251.611 Recovery = 114.96%								
Li 670.784	68460.8	1.044	mg/L	0.0414	1.044	mg/L	0.0414	3.96%
Li 610.362	7730.6	1.120	mg/L	0.0597	1.120	mg/L	ALAE:05901533	

Sequence No.: 101
Sample ID: ICP_CCVGM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/17/2012 4:23:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	76.1	0.0006	mg/L	0.00049	0.0006	mg/L	0.00049	84.04%
Al 308.215	-6.4	-0.0002	mg/L	0.00365	-0.0002	mg/L	0.00365	>999.9%
As 188.979	-6.0	-0.0011	mg/L	0.00348	-0.0011	mg/L	0.00348	320.45%
B 249.677	-3842.8	-0.0435	mg/L	0.00111	-0.0435	mg/L	0.00111	2.55%
Ba 233.527	98.8	0.0010	mg/L	0.00008	0.0010	mg/L	0.00008	8.15%
Be 313.107	664.7	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	14.49%
Bi 223.061	32.9	0.0152	mg/L	0.00396	0.0152	mg/L	0.00396	26.12%
Bi 190.171	12.6	0.0156	mg/L	0.00775	0.0156	mg/L	0.00775	49.85%
Ca 315.887	222112.7	98.25	mg/L	8.467	98.25	mg/L	8.467	8.62%
QC value within limits for Ca 315.887 Recovery = 98.25%								
Ca 317.933	263536.3	98.15	mg/L	8.491	98.15	mg/L	8.491	8.65%
QC value within limits for Ca 317.933 Recovery = 98.15%								
Cd 214.440	-35.7	-0.0008	mg/L	0.00002	-0.0008	mg/L	0.00002	2.35%
Co 228.616	19.9	0.0008	mg/L	0.00027	0.0008	mg/L	0.00027	35.13%
Cr 267.716	94.8	0.0025	mg/L	0.00031	0.0025	mg/L	0.00031	12.74%
Cu 324.752	1007.1	0.0034	mg/L	0.00021	0.0034	mg/L	0.00021	6.29%
Fe 238.204	188.5	0.0048	mg/L	0.00002	0.0048	mg/L	0.00002	0.48%
Fe 273.955	20.4	0.0012	mg/L	0.00066	0.0012	mg/L	0.00066	54.04%
K 766.490	288006.3	98.27	mg/L	7.714	98.27	mg/L	7.714	7.85%
QC value within limits for K 766.490 Recovery = 98.27%								
Mg 279.077	25375.9	105.4	mg/L	1.10	105.4	mg/L	1.10	1.04%
QC value within limits for Mg 279.077 Recovery = 105.43%								
Mn 257.610	1634.6	0.0038	mg/L	0.00010	0.0038	mg/L	0.00010	2.55%
Mo 202.031	35.1	0.0079	mg/L	0.00018	0.0079	mg/L	0.00018	2.28%
Na 589.592	648320.8	98.20	mg/L	7.532	98.20	mg/L	7.532	7.67%
QC value within limits for Na 589.592 Recovery = 98.20%								
Na 330.237	816.9	106.2	mg/L	0.83	106.2	mg/L	0.83	0.79%
QC value within limits for Na 330.237 Recovery = 106.17%								
Ni 231.604	6.8	0.0004	mg/L	0.00044	0.0004	mg/L	0.00044	122.31%
Pb 220.353	57.1	0.0029	mg/L	0.00111	0.0029	mg/L	0.00111	38.25%
Sb 206.836	-16.0	-0.0146	mg/L	0.00471	-0.0146	mg/L	0.00471	32.24%
Se 196.026	-250.1	-0.0319	mg/L	0.00618	-0.0319	mg/L	0.00618	19.35%
Sn 189.927	-87.4	-0.0284	mg/L	0.00073	-0.0284	mg/L	0.00073	2.59%
Sr 407.771	466.7	0.0011	mg/L	0.00005	0.0011	mg/L	0.00005	4.32%
Sr 421.552	226.0	0.0009	mg/L	0.00010	0.0009	mg/L	0.00010	11.06%
Ti 334.940	3656.9	0.0099	mg/L	0.00027	0.0099	mg/L	0.00027	2.70%
Tl 190.801	-73.0	-0.0132	mg/L	0.00076	-0.0132	mg/L	0.00076	5.73%
V 290.880	-789.1	-0.0051	mg/L	0.00026	-0.0051	mg/L	0.00026	5.08%
W 207.912	33.4	0.0135	mg/L	0.00139	0.0135	mg/L	0.00139	10.29%
Y 371.029	1457.6						41.92	2.88%
Zn 206.200	3.8	0.0003	mg/L	0.00035	0.0003	mg/L	0.00035	136.23%
P 213.617	-5.8	-0.0042	mg/L	0.00074	-0.0042	mg/L	0.00074	17.34%
Si 251.611	2905.0	0.0741	mg/L	0.00328	0.0741	mg/L	0.00328	4.43%
Li 670.784	696.5	0.0106	mg/L	0.00347	0.0106	mg/L	0.00347	32.67%
Li 610.362	-1099.6	-0.1592	mg/L	0.07155	-0.1592	mg/L	0.07155	44.93%
S 181.975	9.0	0.0371	mg/L	0.01460	0.0371	mg/L	0.01460	39.31%

All analyte(s) passed QC.

ALAB:00158

Sequence No.: 102
Sample ID: ICP_CCB(Daily)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/17/2012 4:26:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	2314.8	0.0178	mg/L	0.00016	0.0178	mg/L	0.00016	0.90%
Al 308.215	59.0	0.0017	mg/L	0.00004	0.0017	mg/L	0.00004	2.15%
As 188.979	0.8	0.0001	mg/L	0.01011	0.0001	mg/L	0.01011	>999.9%
B 249.677	-4588.4	-0.0519	mg/L	0.00015	-0.0519	mg/L	0.00015	0.29%
Ba 233.527	38.6	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	1.70%
Be 313.107	386.7	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	19.94%
Bi 223.061	7.2	0.0033	mg/L	0.00305	0.0033	mg/L	0.00305	91.37%
Bi 190.171	1.8	0.0022	mg/L	0.00265	0.0022	mg/L	0.00265	119.24%
Ca 315.887	153.3	0.0678	mg/L	0.00092	0.0678	mg/L	0.00092	1.35%
Ca 317.933	184.5	0.0687	mg/L	0.00668	0.0687	mg/L	0.00668	9.72%
Cd 214.440	7.4	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	79.82%
Co 228.616	8.4	0.0003	mg/L	0.00036	0.0003	mg/L	0.00036	109.16%
Cr 267.716	21.1	0.0005	mg/L	0.00027	0.0005	mg/L	0.00027	48.78%
Cu 324.752	119.6	0.0004	mg/L	0.00028	0.0004	mg/L	0.00028	69.33%
Fe 238.204	41.0	0.0010	mg/L	0.00007	0.0010	mg/L	0.00007	6.80%
Fe 273.955	85.9	0.0052	mg/L	0.00030	0.0052	mg/L	0.00030	5.76%
K 766.490	484.8	0.1654	mg/L	0.11464	0.1654	mg/L	0.11464	69.30%
Mg 279.077	21.6	0.0897	mg/L	0.00400	0.0897	mg/L	0.00400	4.46%
Mn 257.610	185.3	0.0004	mg/L	0.00004	0.0004	mg/L	0.00004	8.88%
Mo 202.031	7.8	0.0017	mg/L	0.00007	0.0017	mg/L	0.00007	3.74%
QC value less than the lower limit for Mo 202.031				Recovery = 0.17%				
Na 589.592	1055.9	0.1599	mg/L	0.00530	0.1599	mg/L	0.00530	3.31%
Na 330.237	8.0	1.041	mg/L	0.8420	1.041	mg/L	0.8420	80.86%
Ni 231.604	5.1	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	35.21%
Pb 220.353	44.4	0.0023	mg/L	0.00002	0.0023	mg/L	0.00002	0.89%
Sb 206.836	-3.5	-0.0031	mg/L	0.00161	-0.0031	mg/L	0.00161	51.25%
QC value less than the lower limit for Sb 206.836				Recovery = -0.31%				
Se 196.026	-109.0	-0.0139	mg/L	0.00794	-0.0139	mg/L	0.00794	57.03%
Sn 189.927	6.4	0.0021	mg/L	0.00135	0.0021	mg/L	0.00135	64.98%
Sr 407.771	189.7	0.0004	mg/L	0.00020	0.0004	mg/L	0.00020	44.39%
Sr 421.552	88.4	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	57.88%
Ti 334.940	-42.7	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	37.16%
Tl 190.801	1.2	0.0002	mg/L	0.00218	0.0002	mg/L	0.00218	>999.9%
V 290.880	150.2	0.0010	mg/L	0.00002	0.0010	mg/L	0.00002	2.25%
W 207.912	1.2	0.0005	mg/L	0.00076	0.0005	mg/L	0.00076	159.04%
Y 371.029	1688.7						93.15	5.52%
Zn 206.200	8.6	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	14.74%
P 213.617	4.7	0.0035	mg/L	0.00141	0.0035	mg/L	0.00141	40.52%
Si 251.611	922.8	0.0235	mg/L	0.00051	0.0235	mg/L	0.00051	2.16%
Li 670.784	-87.0	-0.0013	mg/L	0.00235	-0.0013	mg/L	0.00235	176.84%
Li 610.362	11.2	0.0016	mg/L	0.02129	0.0016	mg/L	0.02129	>999.9%
S 181.975	6.6	0.0269	mg/L	0.00336	0.0269	mg/L	0.00336	12.48%

QC Failed. Continue with analysis.

ALAB:00159

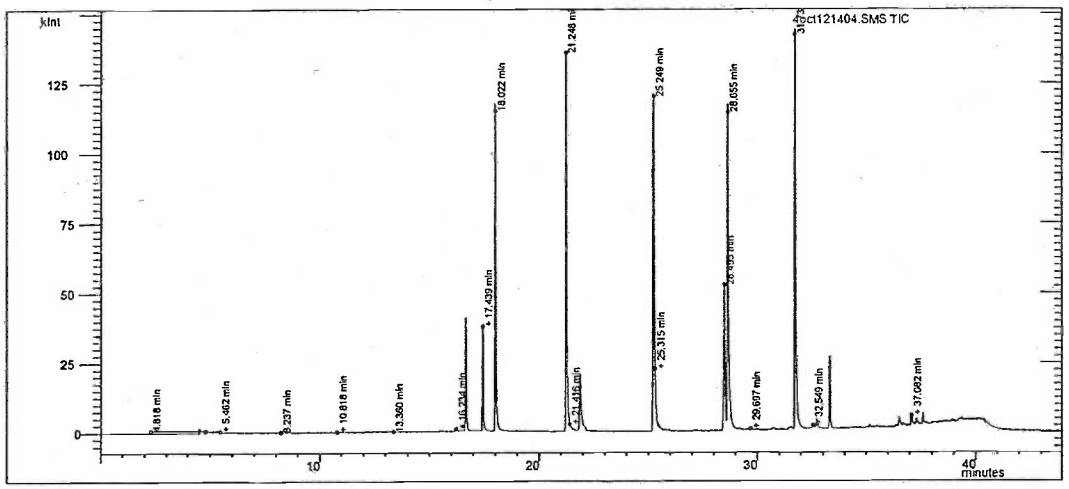
EPA 8260B

Volatile Organic Compounds + Oxygenates

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121404.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	312205-001_10mL-1	**Acquisition Date:**	10/19/2012 8:44:47 PM
Inj. Notes:	pH<2	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.022	96.0+70.0	Fluorobenzene (IS1)	913	191431	25.000
25.249	117.0	Chlorobenzene-d5(IS2)	996	158349	25.000
31.732	152.0	1,4-Dichlorobenzene-d4(IS3)	962	82923	25.000
4.818	85.0	Dichlorodifluoromethane	705		N/A
5.462	50.0+52.0+49.0	Chloromethane	455	75	0.026
5.812	62.0+64.0	Vinyl Chloride	661		N/A
7.014	94.0+45.0	Bromomethane	708		N/A
7.411	45.0+49.0	Chloroethane	539		N/A
8.237	101.0+103.0	Trichlorofluoromethane	751		N/A
9.497	59.0	Ethyl ether	634		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	563		N/A
11.202	56.0	Acrolein	464		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	592		N/A
10.845	142.0	Iodomethane	866		N/A
10.818	43.0+58.0	Acetone	871	525	1.607
11.515	45.0	Isopropyl alcohol (2-Propanol)	783		N/A
10.957	76.0	Carbon disulfide	487		N/A
13.346	41.0	Acetonitrile	806		N/A
11.623	41.0+39.0	Allyl chloride	798		N/A
12.144	84.0+49.0+86.0	Methylene Chloride	863	490	0.078
12.615	59.0	tert-Butanol	555		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	623		N/A
12.828	61.0+96.0	t-1,2-Dichloroethene	646	48	0.007

10/30/12

ALAB : 00161

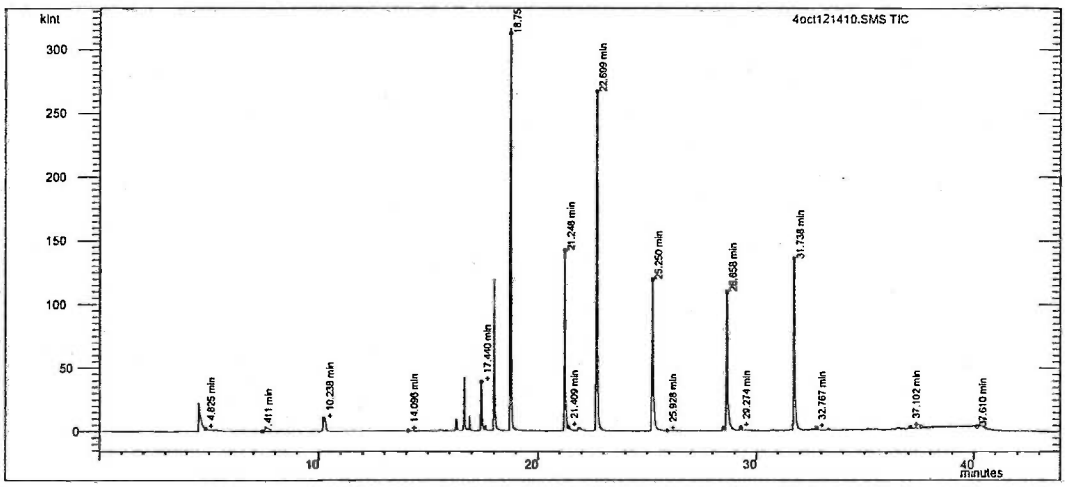
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	319		N/A
13.360	41.0	n-Hexane	600		N/A
14.068	63.0	1,1-Dichloroethane	595		N/A
14.298	43.0	Vinyl acetate	467		N/A
14.055	45.0	Isopropyl ether	450		N/A
14.201	53.0	Chloroprene	446		N/A
14.968	59.0	Ethyl-tert-butyl-ether	391		N/A
15.440	77.0+41.0	2,2-Dichloropropane	659		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	441		N/A
15.719	43.0+72.0	2-Butanone (MEK)	707		N/A
15.948	54.0	Propionitrile	400		N/A
16.148	130.0+49.0	Bromochloromethane	628	41	0.011
17.528	39.0	Methacrylonitrile	781		N/A
16.292	83.0+85.0	Chloroform	678	34	0.004
16.584	97.0+99.0	1,1,1-Trichloroethane	488		N/A
16.665	111.0	Dibromofluoromethane (Surr1)	986	40521	25.696
16.861	117.0+119.0	Carbon Tetrachloride	661		N/A
16.234	42.0+72.0	Tetrahydrofuran	737	780	2.457
16.949	75.0+39.0	1,1-Dichloropropene	616		N/A
17.378	78.0	Benzene	584		N/A
17.439	65.0	1,2-Dichloroethane-d4 (Surr2)	991	60040	28.024
17.581	62.0+64.0	1,2-Dichloroethane	266		N/A
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	551		N/A
18.738	130.0+132.0+95.0	Trichloroethene	681		N/A
19.397	41.0	Methyl methacrylate	493		N/A
19.273	63.0+65.0	1,2-Dichloropropane	625		N/A
19.543	93.0+174.0	Dibromomethane	518		N/A
20.281	88.0	1,4-Dioxane	413		N/A
19.821	83.0+85.0	Bromodichloromethane	432		N/A
20.393	63.0+43.0	2-Chloroethyl vinyl ether	640		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	553		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	438		N/A
21.248	98.0	Toluene-d8 (Surr3)	996	217077	25.618
21.416	92.0+91.0	Toluene	358	606	0.030
22.013	69.0	Ethyl methacrylate	270		N/A
23.027	43.0+58.0+100.0	2-Hexanone	561		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	71		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	382		N/A
22.669	164.0+166.0	Tetrachloroethene	695		N/A
22.981	76.0+41.0	1,3-Dichloropropane	755		N/A
17.440	41.0	Isobutyl alcohol	715		N/A
23.543	129.0+127.0	Dibromochloromethane	598		N/A
23.948	107.0+109.0	1,2-Dibromoethane	386		N/A
25.749	91.0	1-Chlorohexane	693		N/A
25.315	112.0+114.0	Chlorobenzene	262		N/A
25.481	106.0+91.0	Ethylbenzene	680		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	265		N/A
25.823	106.0+91.0	p,m-Xylenes	807		N/A
27.024	106.0+91.0	o-Xylene	786		N/A
27.106	104.0+78.0	Styrene	564		N/A
27.764	171.0+173.0+175.0	Bromoform	555		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	853		N/A
28.495	75.0	cis-1,4-Dichloro-2-butene	567	1987	5.495
28.655	95.0	p-Bromofluorobenzene (Surr4)	999	109192	26.530
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	581		N/A
29.044	77.0+158.0	Bromobenzene	809		N/A
29.148	91.0+120.0	n-Propylbenzene	889		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	655		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	714		N/A
29.517	91.0+126.0	2-Chlorotoluene	724		N/A
29.697	105.0+120.0	1,3,5-Trimethylbenzene	879	711	0.029
29.521	91.0+126.0	4-Chlorotoluene	707		N/A
30.485	119.0+91.0	tert-Butylbenzene	858		N/A
30.730	105.0+120.0	1,2,4-Trimethylbenzene	916	1638	0.069
31.431	117.0	Pentachloroethane	484		N/A
31.107	105.0+134.0	sec-Butylbenzene	954	693	0.028
30.516	119.0	4-Isopropyltoluene	815	277	0.015
31.592	146.0+148.0	1,3-Dichlorobenzene	889	595	0.047
31.585	146.0+148.0	1,4-Dichlorobenzene	880	566	0.044
32.112	91.0	Benzyl Chloride	431		N/A
32.549	91.0+134.0	n-Butylbenzene	917	1731	0.090
32.819	146.0+148.0	1,2-Dichlorobenzene	867	390	0.032
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	637		N/A
37.605	180.0+182.0	1,2,4-Trichlorobenzene	983	4906	0.597
36.683	225.0+226.0	Hexachlorobutadiene	955		N/A
37.082	128.0	Naphthalene	998	5058	0.830
37.605	180.0+182.0	1,2,3-Trichlorobenzene	991	3997	0.502

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121410.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	312205-002_10mL-1	**Acquisition Date:**	10/20/2012 1:43:12 AM
Inj. Notes:	pH<2	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.022	96.0+70.0	Fluorobenzene (IS1)	912	194051	25.000
25.250	117.0	Chlorobenzene-d5(IS2)	986	155855	25.000
31.738	152.0	1,4-Dichlorobenzene-d4(IS3)	948	79643	25.000
4.825	85.0	Dichlorodifluoromethane	470	73	0.022
5.446	50.0+52.0+49.0	Chloromethane	506		N/A
5.812	62.0+64.0	Vinyl Chloride	855		N/A
7.014	94.0+45.0	Bromomethane	455		N/A
7.411	45.0+49.0	Chloroethane	447		N/A
8.269	101.0+103.0	Trichlorofluoromethane	876	279	0.038
9.497	59.0	Ethyl ether	547		N/A
10.238	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	902	19017	4.372
11.202	56.0	Acrolein	442		N/A
10.316	96.0+61.0+98.0	1,1-Dichloroethene	937	17256	3.062
10.845	142.0	Iodomethane	775		N/A
10.825	43.0+58.0	Acetone	835	556	1.676
11.515	45.0	Isopropyl alcohol (2-Propanol)	813		N/A
10.957	76.0	Carbon disulfide	484		N/A
13.346	41.0	Acetonitrile	597		N/A
11.623	41.0+39.0	Allyl chloride	690		N/A
12.154	84.0+49.0+86.0	Methylene Chloride	905	574	0.090
12.615	59.0	tert-Butanol	717		N/A
12.847	73.0	Methyl-tert-butyl-ether (MTBE)	821	263	0.073
12.816	61.0+96.0	t-1,2-Dichloroethene	773	61	0.009

10/25/12

ALAB : 00164

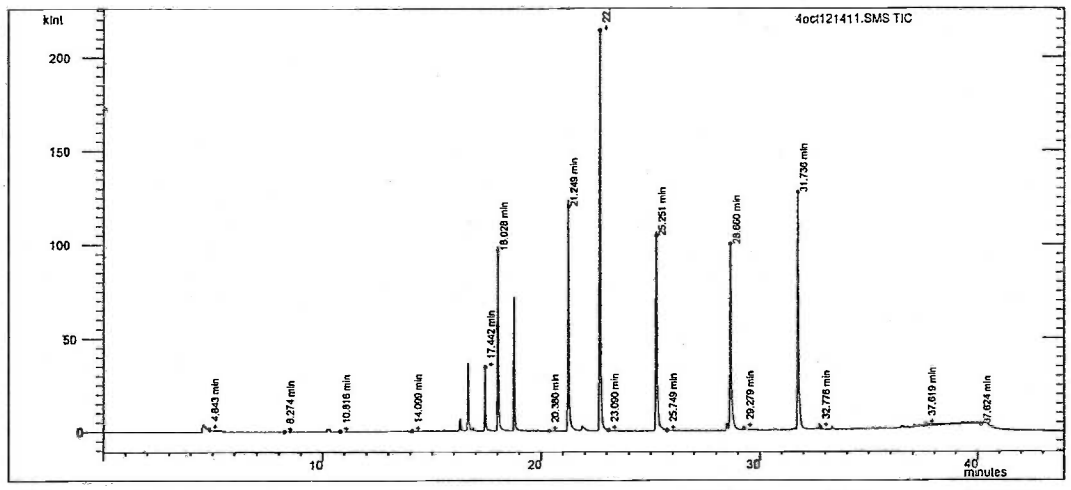
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	515		N/A
13.360	41.0	n-Hexane	622		N/A
14.096	63.0	1,1-Dichloroethane	842	361	0.082
14.298	43.0	Vinyl acetate	504		N/A
14.055	45.0	Isopropyl ether	425		N/A
14.201	53.0	Chloroprene	506		N/A
14.968	59.0	Ethyl-tert-butyl-ether	310		N/A
15.440	77.0+41.0	2,2-Dichloropropane	636		N/A
15.603	61.0+96.0	c-1,2-Dichloroethene	824	470	0.073
15.533	43.0+72.0	2-Butanone (MEK)	669	87	0.161
15.948	54.0	Propionitrile	219		N/A
16.302	130.0+49.0	Bromochloromethane	344	1295	0.338
17.528	39.0	Methacrylonitrile	430		N/A
16.300	83.0+85.0	Chloroform	986	18774	2.285
16.606	97.0+99.0	1,1,1-Trichloroethane	962	1142	0.113
16.666	111.0	Dibromofluoromethane (Surr1)	987	40874	25.570
16.892	117.0+119.0	Carbon Tetrachloride	986	21129	2.578
16.235	42.0+72.0	Tetrahydrofuran	705	216	0.671
16.949	75.0+39.0	1,1-Dichloropropene	500		N/A
17.413	78.0	Benzene	489	154	0.023
17.440	65.0	1,2-Dichloroethane-d4 (Surr2)	983	59602	27.444
17.618	62.0+64.0	1,2-Dichloroethane	663	7445	1.748
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	315		N/A
18.759	130.0+132.0+95.0	Trichloroethene	996	455997	57.203
19.397	41.0	Methyl methacrylate	667		N/A
19.273	63.0+65.0	1,2-Dichloropropane	801		N/A
19.543	93.0+174.0	Dibromomethane	199		N/A
20.281	88.0	1,4-Dioxane	482		N/A
19.860	83.0+85.0	Bromodichloromethane	962	1111	0.193
20.393	63.0+43.0	2-Chloroethyl vinyl ether	647		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	656		N/A
21.114	43.0+58.0	4-Methyl-2-pentanone	557	36	0.022
21.248	98.0	Toluene-d8 (Surr3)	997	159499	19.124
21.409	92.0+91.0	Toluene	403	876	0.045
22.013	69.0	Ethyl methacrylate	460		N/A
23.027	43.0+58.0+100.0	2-Hexanone	625		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	91		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	591		N/A
22.699	164.0+166.0	Tetrachloroethene	998	64542	72.931
22.981	76.0+41.0	1,3-Dichloropropane	206		N/A
17.440	41.0	Isobutyl alcohol	270		N/A
23.543	129.0+127.0	Dibromochloromethane	767		N/A
23.948	107.0+109.0	1,2-Dibromoethane	630		N/A
25.749	91.0	1-Chlorohexane	699		N/A
25.315	112.0+114.0	Chlorobenzene	237		N/A
25.481	106.0+91.0	Ethylbenzene	677		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	624		N/A
25.928	106.0+91.0	p,m-Xylenes	893	392	0.019
27.024	106.0+91.0	o-Xylene	858		N/A
27.106	104.0+78.0	Styrene	519		N/A
27.764	171.0+173.0+175.0	Bromoform	428		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	813		N/A
28.418	75.0	cis-1,4-Dichloro-2-butene	504		N/A
28.658	95.0	p-Bromofluorobenzene (Surr4)	999	104617	26.465
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	453		N/A
29.044	77.0+158.0	Bromobenzene	793		N/A
29.148	91.0+120.0	n-Propylbenzene	805		N/A
29.274	75.0	trans-1,4-Dichloro-2-butene	850	2340	1.460
29.274	75.0+110.0	1,2,3-Trichloropropane	925	3095	1.454
29.517	91.0+126.0	2-Chlorotoluene	830		N/A
29.699	105.0+120.0	1,3,5-Trimethylbenzene	921	379	0.016
29.521	91.0+126.0	4-Chlorotoluene	711		N/A
30.485	119.0+91.0	tert-Butylbenzene	788		N/A
30.741	105.0+120.0	1,2,4-Trimethylbenzene	915	693	0.030
31.431	117.0	Pentachloroethane	594		N/A
31.232	105.0+134.0	sec-Butylbenzene	774	62	0.003
30.459	119.0	4-Isopropyltoluene	787	299	0.017
31.592	146.0+148.0	1,3-Dichlorobenzene	939	385	0.031
31.592	146.0+148.0	1,4-Dichlorobenzene	950	330	0.027
32.112	91.0	Benzyl Chloride	530		N/A
32.542	91.0+134.0	n-Butylbenzene	937	418	0.023
32.767	146.0+148.0	1,2-Dichlorobenzene	827	884	0.076
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	525		N/A
37.610	180.0+182.0	1,2,4-Trichlorobenzene	968	1805	0.229
36.683	225.0+226.0	Hexachlorobutadiene	940		N/A
37.102	128.0	Naphthalene	988	1462	0.250
37.562	180.0+182.0	1,2,3-Trichlorobenzene	981		N/A

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121411.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	312205-004_10mL-1	**Acquisition Date:**	10/20/2012 2:32:15 AM
Inj. Notes:	pH<2	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.028	96.0+70.0	Fluorobenzene (IS1)	926	168434	25.000
25.251	117.0	Chlorobenzene-d5(IS2)	986	141830	25.000
31.736	152.0	1,4-Dichlorobenzene-d4(IS3)	955	72196	25.000
4.843	85.0	Dichlorodifluoromethane	625	48	0.017
5.446	50.0+52.0+49.0	Chloromethane	633		N/A
5.812	62.0+64.0	Vinyl Chloride	811		N/A
7.014	94.0+45.0	Bromomethane	438		N/A
7.411	45.0+49.0	Chloroethane	491		N/A
8.274	101.0+103.0	Trichlorofluoromethane	825	171	0.027
9.497	59.0	Ethyl ether	539		N/A
10.237	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	914	2640	0.699
11.202	56.0	Acrolein	583		N/A
10.320	96.0+61.0+98.0	1,1-Dichloroethene	913	3864	0.790
10.845	142.0	Iodomethane	775		N/A
10.816	43.0+58.0	Acetone	816	359	1.249
11.515	45.0	Isopropyl alcohol (2-Propanol)	787		N/A
10.957	76.0	Carbon disulfide	574		N/A
13.346	41.0	Acetonitrile	806		N/A
11.623	41.0+39.0	Allyl chloride	658		N/A
12.143	84.0+49.0+86.0	Methylene Chloride	790	78	0.014
12.615	59.0	tert-Butanol	708		N/A
12.836	73.0	Methyl-tert-butyl-ether (MTBE)	792	340	0.108
12.801	61.0+96.0	t-1,2-Dichloroethene	590		N/A

ALAB : 00167

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	372		N/A
13.360	41.0	n-Hexane	590		N/A
14.099	63.0	1,1-Dichloroethane	704	166	0.043
14.298	43.0	Vinyl acetate	271		N/A
14.055	45.0	Isopropyl ether	451		N/A
14.201	53.0	Chloroprene	370		N/A
14.968	59.0	Ethyl-tert-butyl-ether	339		N/A
15.440	77.0+41.0	2,2-Dichloropropane	605		N/A
15.588	61.0+96.0	c-1,2-Dichloroethene	721	129	0.023
15.719	43.0+72.0	2-Butanone (MEK)	637		N/A
15.948	54.0	Propionitrile	425		N/A
16.304	130.0+49.0	Bromochloromethane	353	820	0.246
17.528	39.0	Methacrylonitrile	228		N/A
16.303	83.0+85.0	Chloroform	990	12525	1.756
16.602	97.0+99.0	1,1,1-Trichloroethane	922	539	0.062
16.668	111.0	Dibromofluoromethane (Surr1)	986	36115	26.029
16.898	117.0+119.0	Carbon Tetrachloride	982	3017	0.424
16.243	42.0+72.0	Tetrahydrofuran	687	225	0.804
16.949	75.0+39.0	1,1-Dichloropropene	652		N/A
17.378	78.0	Benzene	440		N/A
17.442	65.0	1,2-Dichloroethane-d4 (Surr2)	985	52480	27.840
17.628	62.0+64.0	1,2-Dichloroethane	704	428	0.116
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	466		N/A
18.766	130.0+132.0+95.0	Trichloroethene	996	106638	14.700
19.397	41.0	Methyl methacrylate	535		N/A
19.273	63.0+65.0	1,2-Dichloropropane	767		N/A
19.543	93.0+174.0	Dibromomethane	486		N/A
20.281	88.0	1,4-Dioxane	443		N/A
19.860	83.0+85.0	Bromodichloromethane	952	542	0.103
20.380	63.0+43.0	2-Chloroethyl vinyl ether	707	31	0.130
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	637		N/A
20.925	43.0+58.0	4-Methyl-2-pentanone	550	17	0.012
21.249	98.0	Toluene-d8 (Surr3)	997	192208	25.324
21.369	92.0+91.0	Toluene	314		N/A
22.013	69.0	Ethyl methacrylate	390		N/A
23.090	43.0+58.0+100.0	2-Hexanone	391	30	0.029
22.043	75.0+77.0	t-1,3-Dichloropropene	101		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	535		N/A
22.701	164.0+166.0	Tetrachloroethene	996	50277	62.429
22.693	76.0+41.0	1,3-Dichloropropane	325	390	0.098
17.440	41.0	Isobutyl alcohol	463		N/A
23.543	129.0+127.0	Dibromochloromethane	829		N/A
23.948	107.0+109.0	1,2-Dibromoethane	421		N/A
25.749	91.0	1-Chlorohexane	716		N/A
25.315	112.0+114.0	Chlorobenzene	239		N/A
25.481	106.0+91.0	Ethylbenzene	575		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	550		N/A
25.823	106.0+91.0	p,m-Xylenes	812		N/A
27.024	106.0+91.0	o-Xylene	752		N/A
27.106	104.0+78.0	Styrene	538		N/A
27.764	171.0+173.0+175.0	Bromoform	577		N/A

ALAB : 00168

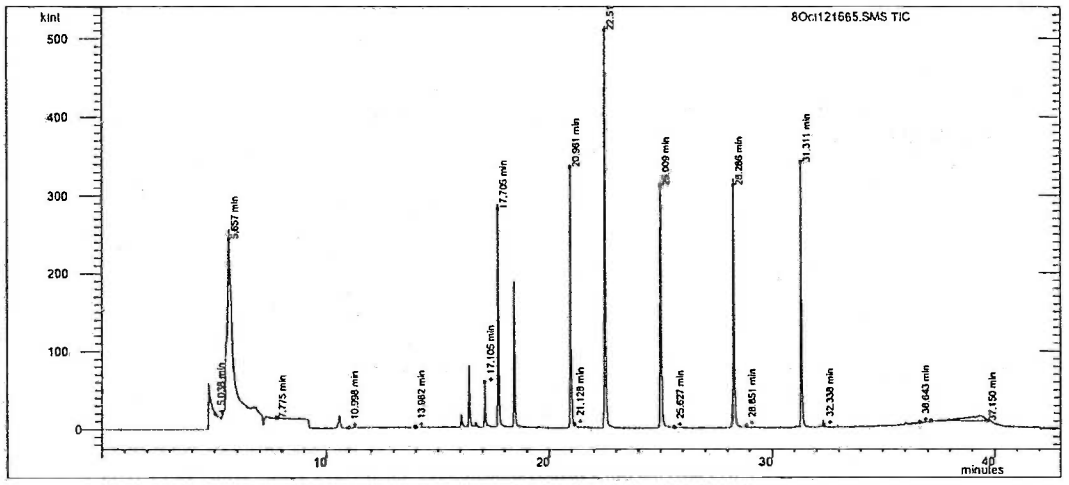
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	799		N/A
28.418	75.0	cis-1,4-Dichloro-2-butene	645		N/A
28.660	95.0	p-Bromofluorobenzene (Surr4)	999	97257	27.141
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	543		N/A
29.044	77.0+158.0	Bromobenzene	834		N/A
29.148	91.0+120.0	n-Propylbenzene	810		N/A
29.279	75.0	trans-1,4-Dichloro-2-butene	825	1130	0.778
29.280	75.0+110.0	1,2,3-Trichloropropane	915	1497	0.776
29.517	91.0+126.0	2-Chlorotoluene	755		N/A
29.642	105.0+120.0	1,3,5-Trimethylbenzene	851		N/A
29.521	91.0+126.0	4-Chlorotoluene	752		N/A
30.485	119.0+91.0	tert-Butylbenzene	757		N/A
30.740	105.0+120.0	1,2,4-Trimethylbenzene	968	669	0.032
31.431	117.0	Pentachloroethane	560		N/A
31.116	105.0+134.0	sec-Butylbenzene	877	368	0.017
30.528	119.0	4-Isopropyltoluene	750	205	0.013
31.519	146.0+148.0	1,3-Dichlorobenzene	834		N/A
31.596	146.0+148.0	1,4-Dichlorobenzene	836	346	0.031
32.112	91.0	Benzyl Chloride	508		N/A
32.474	91.0+134.0	n-Butylbenzene	935		N/A
32.778	146.0+148.0	1,2-Dichlorobenzene	798	171	0.016
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	608		N/A
37.619	180.0+182.0	1,2,4-Trichlorobenzene	974	1553	0.217
36.683	225.0+226.0	Hexachlorobutadiene	897		N/A
37.102	128.0	Naphthalene	978	1086	0.205
37.624	180.0+182.0	1,2,3-Trichlorobenzene	976	1277	0.184

For 1,2,3-TCP ONLY

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121665.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_102312.mth
Sample Name:	312205-005_10ml-3	Acquisition Date:	10/25/2012 6:57:20 AM
Inj. Notes:	PH<2	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.705	96.0+70.0	Fluorobenzene (IS1)	997	528362	25.000
25.009	117.0	Chlorobenzene-d5(IS2)	990	421087	25.000
31.311	152.0	1,4-Dichlorobenzene-d4(IS3)	991	203410	25.000
5.038	85.0	Dichlorodifluoromethane	901	422	0.047
5.657	47.0+49.0+51.0	Chloromethane	390	19547	7.971
6.076	62.0+64.0	Vinyl Chloride	626		N/A
7.362	94.0	Bromomethane	N/A		N/A
7.775	49.0+45.0	Chloroethane	659		N/A
8.745	101.0+103.0	Trichlorofluoromethane	937	1129	0.053
9.848	59.0	Ethyl ether	713		N/A
10.558	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	996	14951	0.979
10.600	61.0+96.0+98.0	1,1-Dichloroethene	994	28167	1.284
11.038	55.0+56.0	Acrolein	450		N/A
10.998	43.0+58.0	Acetone	872	893	1.563
11.109	142.0	Iodomethane	953	165	0.012
11.263	76.0	Carbon disulfide	774	2309	0.206
11.878	41.0+40.0	Acetonitrile	700	366	0.035
11.741	41.0+39.0	Allyl chloride	718		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	153		N/A
12.188	49.0	Methylene Chloride	929	781	0.080
12.639	59.0	tert-Butanol	722		N/A
12.837	73.0	Methyl-tert-butyl-ether (MTBE)	964	803	0.124
12.882	61.0+96.0	t-1,2-Dichloroethene	620	156	0.009

ALAB : 00170

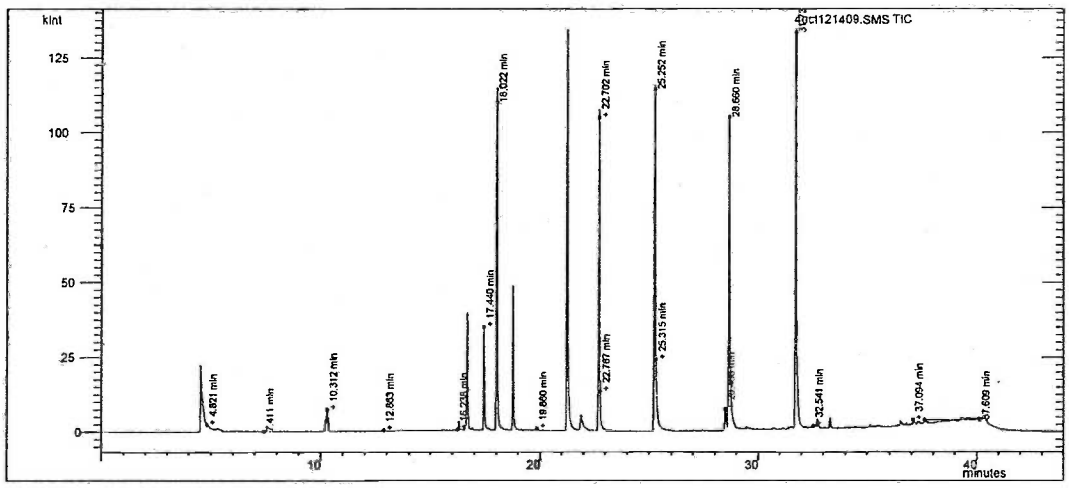
RT	Quan Ions	Compound Name	R.Match	Area	Amount
12.970	53.0	Acrylonitrile	750		N/A
13.406	55.9+41.0	n-Hexane	852		N/A
13.982	63.0	1,1-Dichloroethane	938	813	0.075
14.001	45.0	Isopropyl ether	872		N/A
14.123	53.0	Chloroprene	675		N/A
13.993	43.0	Vinyl acetate	672		N/A
14.863	59.0	Ethyl-tert-butyl-ether	500	25	0.002
15.269	77.0+39.0+41.0	2,2-Dichloropropane	648		N/A
15.378	96.0	c-1,2-Dichloroethene	971	436	0.076
15.575	43.0+72.0	2-Butanone (MEK)	731	212	0.347
15.575	54.0+55.0	Propionitrile	402	66	0.063
15.890	130.0+49.0	Bromochloromethane	276		N/A
15.692	39.0+41.0+71.0	Tetrahydrofuran	566		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	652		N/A
16.051	83.0+85.0	Chloroform	992	34440	2.072
16.359	97.0+99.0	1,1,1-Trichloroethane	905	1513	0.062
16.397	111.0	Dibromofluoromethane (Surr1)	992	89345	25.338
16.697	117.0+119.0	Carbon Tetrachloride	993	11101	0.552
16.689	75.0	1,1-Dichloropropene	652		N/A
17.016	41.0+39.0	Isobutyl alcohol	549		N/A
17.105	65.0	1,2-Dichloroethane-d4 (Surr2)	996	100968	27.566
17.160	78.0	Benzene	616	468	0.027
17.273	62.0+64.0	1,2-Dichloroethane	688	1080	0.143
17.272	73.0+55.0+87.0	tert-Amyl-methyl-ether	692		N/A
18.423	130.0+132.0+95.0	Trichloroethene	999	306465	14.586
18.902	63.0+65.0	1,2-Dichloropropane	886		N/A
18.905	41.0+39.0	Methyl methacrylate	714		N/A
19.091	88.0	1,4-Dioxane	549		N/A
19.199	93.0+174.0	Dibromomethane	697		N/A
19.495	83.0+85.0	Bromodichloromethane	989	1175	0.107
20.660	63.0+43.0	2-Chloroethyl vinyl ether	568		N/A
20.383	75.0+77.0+39.0	c-1,3-Dichloropropene	534		N/A
20.659	43.0+58.0	4-Methyl-2-pentanone	542		N/A
20.961	98.0	Toluene-d8 (Surr3)	990	603984	24.947
21.128	92.0+91.0	Toluene	963	2717	0.046
21.705	75.0+77.0	t-1,3-Dichloropropene	498		N/A
21.724	69.0	Ethyl methacrylate	465		N/A
22.212	97.0+99.0	1,1,2-Trichloroethane	762		N/A
22.512	164.0+166.0	Tetrachloroethene	992	150281	66.150
22.672	76.0+41.0	1,3-Dichloropropane	101		N/A
22.758	43.0+58.0+100.0	2-Hexanone	684		N/A
23.382	129.0+127.0	Dibromochloromethane	809		N/A
23.773	107.0+109.0	1,2-Dibromoethane	587		N/A
24.895	91.0	1-Chlorohexane	303		N/A
25.101	112.0+114.0	Chlorobenzene	642	444	0.014
25.296	106.0+91.0	Ethylbenzene	859		N/A
25.456	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	325	52	0.003
25.627	106.0+91.0	p,m-Xylenes	972	1820	0.028
26.771	106.0+91.0	o-Xylene	950		N/A
26.832	104.0+78.0	Styrene	820		N/A
27.522	171.0+173.0+175.0	Bromoform	674		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.736	105.0+120.0	Isopropylbenzene	830		N/A
28.286	95.0	p-Bromofluorobenzene (Surr4)	986	285740	26.123
28.706	83.0+85.0	1,1,2,2-Tetrachloroethane	577		N/A
28.851	75.0+110.0	1,2,3-Trichloropropane	992	2349	0.792
28.851	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	394		N/A
28.054	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	460		N/A
28.744	77.0+158.0	Bromobenzene	832		N/A
28.860	91.0+120.0	n-Propylbenzene	718		N/A
29.197	91.0+126.0	2-Chlorotoluene	911		N/A
29.311	105.0+120.0	1,3,5-Trimethylbenzene	888	937	0.012
29.485	91.0+126.0	4-Chlorotoluene	969		N/A
30.175	119.0+91.0	tert-Butylbenzene	732		N/A
30.334	105.0+120.0	1,2,4-Trimethylbenzene	981	1618	0.023
30.334	117.0	Pentachloroethane	675		N/A
30.737	105.0+134.0	sec-Butylbenzene	942		N/A
31.077	119.0	4-Isopropyltoluene	891	452	0.008
31.169	146.0+148.0	1,3-Dichlorobenzene	951	1196	0.037
31.510	146.0+148.0	1,4-Dichlorobenzene	605	49	0.002
31.910	91.0	Benzyl Chloride	658		N/A
32.131	91.0+134.0	n-Butylbenzene	944	1243	0.020
32.338	146.0+148.0	1,2-Dichlorobenzene	885	1338	0.052
34.242	75.0+157.0	1,2-Dibromo-3-chloropropane	665		N/A
36.050	180.0+182.0	1,2,4-Trichlorobenzene	889	1462	0.077
36.302	225.0+226.0	Hexachlorobutadiene	958	793	0.057
36.643	128.0	Naphthalene	967	1261	0.124
37.150	180.0+182.0	1,2,3-Trichlorobenzene	946	1020	0.061

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121409.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	312205-006_10mL-7	**Acquisition Date:**	10/20/2012 12:53:29 AM
Inj. Notes:	pH<2	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.022	96.0+70.0	Fluorobenzene (IS1)	915	184923	25.000
25.252	117.0	Chlorobenzene-d5(IS2)	987	153202	25.000
31.734	152.0	1,4-Dichlorobenzene-d4(IS3)	914	74156	25.000
4.821	85.0	Dichlorodifluoromethane	687	29	0.009
5.446	50.0+52.0+49.0	Chloromethane	216		N/A
5.812	62.0+64.0	Vinyl Chloride	809		N/A
7.014	94.0+45.0	Bromomethane	639		N/A
7.411	45.0+49.0	Chloroethane	540		N/A
8.244	101.0+103.0	Trichlorofluoromethane	904	176	0.025
9.497	59.0	Ethyl ether	477		N/A
10.243	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	891	6248	1.507
11.202	56.0	Acrolein	564		N/A
10.312	96.0+61.0+98.0	1,1-Dichloroethene	941	17809	3.316
10.845	142.0	Iodomethane	775		N/A
10.816	43.0+58.0	Acetone	828	280	0.888
11.515	45.0	Isopropyl alcohol (2-Propanol)	792		N/A
10.957	76.0	Carbon disulfide	717		N/A
13.346	41.0	Acetonitrile	679		N/A
11.623	41.0+39.0	Allyl chloride	674		N/A
12.146	84.0+49.0+86.0	Methylene Chloride	894	419	0.069
12.615	59.0	tert-Butanol	566		N/A
12.863	73.0	Methyl-tert-butyl-ether (MTBE)	794	212	0.062
12.832	61.0+96.0	t-1,2-Dichloroethene	558	46	0.007

10/20/12

ALAB : 00172

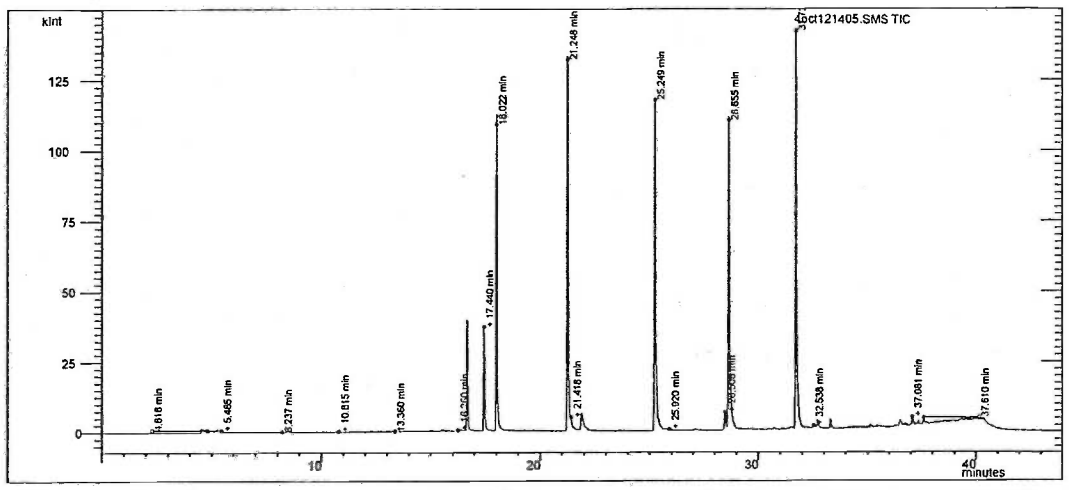
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	608		N/A
13.360	41.0	n-Hexane	669		N/A
14.094	63.0	1,1-Dichloroethane	747	231	0.055
14.298	43.0	Vinyl acetate	393		N/A
14.055	45.0	Isopropyl ether	513		N/A
14.201	53.0	Chloroprene	672		N/A
14.968	59.0	Ethyl-tert-butyl-ether	290		N/A
15.440	77.0+41.0	2,2-Dichloropropane	677		N/A
15.593	61.0+96.0	c-1,2-Dichloroethene	841	301	0.049
15.719	43.0+72.0	2-Butanone (MEK)	701		N/A
15.948	54.0	Propionitrile	313		N/A
16.123	130.0+49.0	Bromochloromethane	298		N/A
17.528	39.0	Methacrylonitrile	474		N/A
16.302	83.0+85.0	Chloroform	988	6249	0.798
16.604	97.0+99.0	1,1,1-Trichloroethane	985	2835	0.295
16.666	111.0	Dibromofluoromethane (Surr1)	984	39552	25.964
16.903	117.0+119.0	Carbon Tetrachloride	975	1562	0.200
16.238	42.0+72.0	Tetrahydrofuran	663	136	0.442
16.949	75.0+39.0	1,1-Dichloropropene	597		N/A
17.417	78.0	Benzene	369	177	0.028
17.440	65.0	1,2-Dichloroethane-d4 (Surr2)	988	55016	26.583
17.626	62.0+64.0	1,2-Dichloroethane	706	771	0.190
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	364		N/A
18.764	130.0+132.0+95.0	Trichloroethene	996	71331	9.103
19.397	41.0	Methyl methacrylate	722		N/A
19.273	63.0+65.0	1,2-Dichloropropane	750		N/A
19.543	93.0+174.0	Dibromomethane	271		N/A
20.281	88.0	1,4-Dioxane	449		N/A
19.860	83.0+85.0	Bromodichloromethane	964	887	0.157
20.393	63.0+43.0	2-Chloroethyl vinyl ether	593		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	424		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	338		N/A
21.248	98.0	Toluene-d8 (Surr3)	997	208774	25.465
21.429	92.0+91.0	Toluene	421	764	0.039
22.013	69.0	Ethyl methacrylate	426		N/A
23.027	43.0+58.0+100.0	2-Hexanone	331		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	88		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	534		N/A
22.702	164.0+166.0	Tetrachloroethene	997	22621	26.004
22.767	76.0+41.0	1,3-Dichloropropane	416	186	0.043
17.440	41.0	Isobutyl alcohol	683		N/A
23.543	129.0+127.0	Dibromochloromethane	777		N/A
23.948	107.0+109.0	1,2-Dibromoethane	280		N/A
25.749	91.0	1-Chlorohexane	701		N/A
25.315	112.0+114.0	Chlorobenzene	221		N/A
25.481	106.0+91.0	Ethylbenzene	677		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	369		N/A
25.823	106.0+91.0	p,m-Xylenes	823		N/A
27.024	106.0+91.0	o-Xylene	765		N/A
27.304	104.0+78.0	Styrene	719	55	0.005
27.764	171.0+173.0+175.0	Bromoform	552		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.059	105.0+120.0	Isopropylbenzene	759	80	0.004
28.488	75.0	cis-1,4-Dichloro-2-butene	661	220	~~0.679~~
28.660	95.0	p-Bromofluorobenzene (Surr4)	998	104830	28.482
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	549		N/A
29.044	77.0+158.0	Bromobenzene	793		N/A
29.214	91.0+120.0	n-Propylbenzene	844	567	0.024
29.229	75.0	trans-1,4-Dichloro-2-butene	681		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	723		N/A
29.517	91.0+126.0	2-Chlorotoluene	771		N/A
29.642	105.0+120.0	1,3,5-Trimethylbenzene	852		N/A
29.521	91.0+126.0	4-Chlorotoluene	764		N/A
30.485	119.0+91.0	tert-Butylbenzene	792		N/A
30.736	105.0+120.0	1,2,4-Trimethylbenzene	942	689	0.032
31.431	117.0	Pentachloroethane	562		N/A
31.102	105.0+134.0	sec-Butylbenzene	914	450	0.020
30.519	119.0	4-Isopropyltoluene	823	131	0.008
31.519	146.0+148.0	1,3-Dichlorobenzene	844		N/A
31.590	146.0+148.0	1,4-Dichlorobenzene	853	360	0.031
32.112	91.0	Benzyl Chloride	542		N/A
32.541	91.0+134.0	n-Butylbenzene	912	938	0.055
32.765	146.0+148.0	1,2-Dichlorobenzene	778	222	0.021
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	627		N/A
37.609	180.0+182.0	1,2,4-Trichlorobenzene	982	1796	0.244
36.683	225.0+226.0	Hexachlorobutadiene	943		N/A
37.094	128.0	Naphthalene	991	1754	0.322
37.562	180.0+182.0	1,2,3-Trichlorobenzene	981		N/A

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121405.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	312205-007_10mL-1	**Acquisition Date:**	10/19/2012 9:33:38 PM
Inj. Notes:	pH<2	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.022	96.0+70.0	Fluorobenzene (IS1)	907	188034	25.000
25.249	117.0	Chlorobenzene-d5(IS2)	987	157620	25.000
31.729	152.0	1,4-Dichlorobenzene-d4(IS3)	944	81138	25.000
4.818	85.0	Dichlorodifluoromethane	700		N/A
5.465	50.0+52.0+49.0	Chloromethane	447	79	0.028
5.812	62.0+64.0	Vinyl Chloride	622		N/A
7.014	94.0+45.0	Bromomethane	692		N/A
7.411	45.0+49.0	Chloroethane	552		N/A
8.237	101.0+103.0	Trichlorofluoromethane	720		N/A
9.497	59.0	Ethyl ether	555		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	334		N/A
11.202	56.0	Acrolein	466		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	264		N/A
10.845	142.0	Iodomethane	775		N/A
10.815	43.0+58.0	Acetone	813	348	1.085
11.515	45.0	Isopropyl alcohol (2-Propanol)	754		N/A
10.957	76.0	Carbon disulfide	643		N/A
13.346	41.0	Acetonitrile	760		N/A
11.623	41.0+39.0	Allyl chloride	748		N/A
12.143	84.0+49.0+86.0	Methylene Chloride	858	255	0.041
12.615	59.0	tert-Butanol	623		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	504		N/A
12.801	61.0+96.0	t-1,2-Dichloroethene	652		N/A

ALAB : 00175

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	332		N/A
13.360	41.0	n-Hexane	668		N/A
14.068	63.0	1,1-Dichloroethane	612		N/A
14.298	43.0	Vinyl acetate	630		N/A
14.055	45.0	Isopropyl ether	623		N/A
14.201	53.0	Chloroprene	286		N/A
14.968	59.0	Ethyl-tert-butyl-ether	336		N/A
15.440	77.0+41.0	2,2-Dichloropropane	771		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	474		N/A
15.851	43.0+72.0	2-Butanone (MEK)	687	73	0.140
15.948	54.0	Propionitrile	330		N/A
16.163	130.0+49.0	Bromochloromethane	557	32	0.008
17.528	39.0	Methacrylonitrile	561		N/A
16.299	83.0+85.0	Chloroform	730	66	0.008
16.584	97.0+99.0	1,1,1-Trichloroethane	313		N/A
16.666	111.0	Dibromofluoromethane (Surr1)	987	39830	25.714
16.861	117.0+119.0	Carbon Tetrachloride	776		N/A
16.260	42.0+72.0	Tetrahydrofuran	694	200	0.640
16.949	75.0+39.0	1,1-Dichloropropene	403		N/A
17.413	78.0	Benzene	342	113	0.018
17.440	65.0	1,2-Dichloroethane-d4 (Surr2)	990	60215	28.614
17.502	62.0+64.0	1,2-Dichloroethane	335	122	0.030
17.742	73.0+55.0+87.0	tert-Amyl-methyl-ether	653	40	0.006
18.738	130.0+132.0+95.0	Trichloroethene	751		N/A
19.397	41.0	Methyl methacrylate	676		N/A
19.273	63.0+65.0	1,2-Dichloropropane	699		N/A
19.543	93.0+174.0	Dibromomethane	665		N/A
20.281	88.0	1,4-Dioxane	453		N/A
19.841	83.0+85.0	Bromodichloromethane	577	22	0.004
20.393	63.0+43.0	2-Chloroethyl vinyl ether	667		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	414		N/A
21.135	43.0+58.0	4-Methyl-2-pentanone	540	44	0.027
21.248	98.0	Toluene-d8 (Surr3)	996	211475	25.072
21.418	92.0+91.0	Toluene	784	5369	0.270
22.013	69.0	Ethyl methacrylate	339		N/A
23.027	43.0+58.0+100.0	2-Hexanone	509		N/A
22.229	75.0+77.0	t-1,3-Dichloropropene	325	38	0.013
22.504	97.0+99.0	1,1,2-Trichloroethane	598		N/A
22.669	164.0+166.0	Tetrachloroethene	603		N/A
22.981	76.0+41.0	1,3-Dichloropropane	776		N/A
17.440	41.0	Isobutyl alcohol	517		N/A
23.543	129.0+127.0	Dibromochloromethane	317		N/A
23.948	107.0+109.0	1,2-Dibromoethane	661		N/A
25.749	91.0	1-Chlorohexane	649		N/A
25.315	112.0+114.0	Chlorobenzene	242		N/A
25.481	106.0+91.0	Ethylbenzene	810		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	313		N/A
25.920	106.0+91.0	p,m-Xylenes	878	810	0.039
27.100	106.0+91.0	o-Xylene	937	1191	0.057
27.106	104.0+78.0	Styrene	653		N/A
27.764	171.0+173.0+175.0	Bromoform	618		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.076	105.0+120.0	Isopropylbenzene	836	143	0.006
28.508	75.0	cis-1,4-Dichloro-2-butene	466	70	0.197
28.655	95.0	p-Bromofluorobenzene (Surr4)	999	105944	26.307
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	530		N/A
29.092	77.0+158.0	Bromobenzene	873	104	0.011
29.148	91.0+120.0	n-Propylbenzene	832		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	621		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	644		N/A
29.517	91.0+126.0	2-Chlorotoluene	812		N/A
29.681	105.0+120.0	1,3,5-Trimethylbenzene	791	447	0.018
29.521	91.0+126.0	4-Chlorotoluene	788		N/A
30.485	119.0+91.0	tert-Butylbenzene	780		N/A
30.724	105.0+120.0	1,2,4-Trimethylbenzene	918	1171	0.050
31.431	117.0	Pentachloroethane	599		N/A
31.100	105.0+134.0	sec-Butylbenzene	906	348	0.014
30.483	119.0	4-Isopropyltoluene	770		N/A
31.581	146.0+148.0	1,3-Dichlorobenzene	937	332	0.027
31.579	146.0+148.0	1,4-Dichlorobenzene	939	467	0.037
32.112	91.0	Benzyl Chloride	459		N/A
32.538	91.0+134.0	n-Butylbenzene	942	1165	0.062
32.773	146.0+148.0	1,2-Dichlorobenzene	864	683	0.058
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	643		N/A
37.606	180.0+182.0	1,2,4-Trichlorobenzene	991	3363	0.418
36.683	225.0+226.0	Hexachlorobutadiene	907		N/A
37.081	128.0	Naphthalene	995	4112	0.690
37.610	180.0+182.0	1,2,3-Trichlorobenzene	993	2647	0.339

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Varian Star Workstation - RecalcList Fri Oct 19 10:16:01 2012

RecalcList: C:\VarianWS\8260list.rcl

Created: Wed Dec 01 10:37:29 2004
Modified: Fri Oct 19 10:09:59 2012

MS#4 524.2 101812 -35°C

****

Line	Sample Name	Data File
1	tune	c:\varianws\data\4oct12\4oct121359.SMS
2	mb	c:\varianws\data\4oct12\4oct121360.SMS
3	1ppb 8260 ic	c:\varianws\data\4oct12\4oct121361.SMS
4	0.5ppb 524.2 ic	c:\varianws\data\4oct12\4oct121362.SMS
5	5ppb 8260 ic	c:\varianws\data\4oct12\4oct121363.SMS
6	2.5ppb 524.2 ic	c:\varianws\data\4oct12\4oct121364.SMS
7	20ppb 8260 ic	c:\varianws\data\4oct12\4oct121365.SMS
8	10ppb 524.2 ic	c:\varianws\data\4oct12\4oct121366.SMS
9	50ppb 8260 ic	c:\varianws\data\4oct12\4oct121367.SMS
10	25ppb 524.2 ic	c:\varianws\data\4oct12\4oct121368.SMS
11	100ppb 8260 ic	c:\varianws\data\4oct12\4oct121369.SMS
12	50ppb 524.2 ic	c:\varianws\data\4oct12\4oct121370.SMS
13	150ppb 8260 ic	c:\varianws\data\4oct12\4oct121371.SMS
14	75ppb 524.2 ic	c:\varianws\data\4oct12\4oct121372.SMS
15	200ppb 8260 ic	c:\varianws\data\4oct12\4oct121373.SMS
16	tune	c:\varianws\data\4oct12\4oct121374.SMS
17	100ppb 524.2 ic	c:\varianws\data\4oct12\4oct121375.SMS
18	250ppb 8260 ic	c:\varianws\data\4oct12\4oct121376.SMS
19	125ppb 524.2 ic	c:\varianws\data\4oct12\4oct121377.SMS
20	rinse	c:\varianws\data\4oct12\4oct121378.SMS
21	rinse	c:\varianws\data\4oct12\4oct121379.SMS
22	rinse	c:\varianws\data\4oct12\4oct121380.SMS
23	10ppb BFB tune 1	c:\varianws\data\4oct12\4oct121381.SMS
24	50ppb 8260 ccv 1	c:\varianws\data\4oct12\4oct121382.SMS
25	25ppb 524.2 ccv 1	c:\varianws\data\4oct12\4oct121383.SMS
26	50ppb 8260 lcs 1	c:\varianws\data\4oct12\4oct121384.SMS
27	25ppb 524.2 lcs 1	c:\varianws\data\4oct12\4oct121385.SMS
28	rinse	c:\varianws\data\4oct12\4oct121386.SMS
29	method blk 1	c:\varianws\data\4oct12\4oct121387.SMS
30	312094-001_10mL-1	c:\varianws\data\4oct12\4oct121388.SMS
31	312094-002_10mL-8	c:\varianws\data\4oct12\4oct121389.SMS
32	312094-004_10mL-5	c:\varianws\data\4oct12\4oct121390.SMS

ALAB:00177

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 4 Case No.: SAS No: SDG No:

Instrument ID: Cal. Sample Date(s): 10/18/2012 10/18/2012

Heated Purge (Y/N): No Cal. Sample Time(s): 10:15 22:33

GC Column: ID: (mm)

Calibration File: C:\VarianWS\data\4Oct12\4oct121377.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 10/18/2012 10:15	File: C:\VarianWS\data\4Oct12\4oct121362.SMS
Index: 2	Level: 2	Replicate: 1	Acquired: 10/18/2012 11:53	File: C:\VarianWS\data\4Oct12\4oct121364.SMS
Index: 3	Level: 3	Replicate: 1	Acquired: 10/18/2012 13:32	File: C:\VarianWS\data\4Oct12\4oct121366.SMS
Index: 4	Level: 4	Replicate: 1	Acquired: 10/18/2012 15:10	File: C:\VarianWS\data\4Oct12\4oct121368.SMS
Index: 5	Level: 5	Replicate: 1	Acquired: 10/18/2012 16:48	File: C:\VarianWS\data\4Oct12\4oct121370.SMS
Index: 6	Level: 6	Replicate: 1	Acquired: 10/18/2012 18:27	File: C:\VarianWS\data\4Oct12\4oct121372.SMS
Index: 7	Level: 7	Replicate: 1	Acquired: 10/18/2012 20:54	File: C:\VarianWS\data\4Oct12\4oct121375.SMS
Index: 8	Level: 8	Replicate: 1	Acquired: 10/18/2012 22:33	File: C:\VarianWS\data\4Oct12\4oct121377.SMS

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
Dichlorodifluoromethane	0.401	0.407	0.462	0.452	0.432	0.432	0.427	0.430	0.430	4.7
Chloromethane	0.396	0.395	0.441	0.430	0.383	0.346	0.331	0.314	0.379	12.0
Vinyl Chloride	0.349	0.336	0.383	0.402	0.395	0.381	0.389	0.378	0.377	6.1
Bromomethane	0.191	0.130	0.158	0.145	0.149	0.139	0.135	0.126	0.146	14.1
Chloroethane		0.024	0.026	0.024	0.025	0.025	0.026	0.025	0.025	3.6
Trichlorofluoromethane	0.845	0.891	0.999	0.991	0.969	0.939	0.954	0.970	0.945	5.6
Ethyl ether	0.074	0.084	0.093	0.087	0.088	0.089	0.085	0.084	0.086	6.5
Trichlorotrifluoroethane (Freon 113)	0.497	0.537	0.614	0.588	0.570	0.557	0.562	0.558	0.560	6.2
1,1-Dichloroethene	0.613	0.674	0.810	0.736	0.747	0.746	0.746	0.735	0.726	8.0
Iodomethane			0.423	0.553	0.554	0.537	0.568	0.550	0.531	10.1
Acetone		0.059	0.040	0.037	0.040	0.039	0.041	0.043	0.043	17.8
Carbon disulfide	0.632	0.626	0.620	0.603	0.590	0.565	0.582	0.583	0.600	4.0

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
Acetonitrile	0.468	0.534	0.582	0.571	0.542	0.520	0.513	0.517	0.531	6.7
Allyl chloride	0.969	1.074	1.074	1.145	1.098	1.050	1.045	1.035	1.061	4.8
Methylene Chloride	0.859	0.794	0.727	0.823	0.888	0.810	0.816	0.831	0.819	5.8
tert-Butanol	0.016	0.016	0.018	0.018	0.018	0.018	0.018	0.019	0.018	5.7
Methyl-tert-butyl-ether (MTBE)	0.402	0.493	0.479	0.476	0.456	0.456	0.474	0.487	0.466	6.2
t-1,2-Dichloroethene	0.843	0.922	0.957	0.926	0.875	0.828	0.811	0.797	0.870	6.8
Acrylonitrile		0.023	0.025	0.028	0.031	0.031	0.031	0.032	0.029	12.2
n-Hexane	0.461	0.534	0.582	0.571	0.550	0.520	0.522	0.517	0.532	7.0
1,1-Dichloroethane	0.569	0.646	0.650	0.612	0.569	0.532	0.494	0.476	0.569	11.5
Isopropyl ether	0.737	0.872	0.957	0.908	0.827	0.767	0.732	0.729	0.816	10.8
Chloroprene	0.494	0.612	0.654	0.657	0.629	0.589	0.593	0.594	0.603	8.5
Ethyl-tert-butyl-ether	0.945	0.988	1.056	0.998	0.920	0.883	0.826	0.826	0.930	8.9
2,2-Dichloropropane	0.902	0.832	0.838	0.782	0.752	0.698	0.664	0.648	0.765	11.8
c-1,2-Dichloroethene	0.722	0.765	0.908	0.907	0.864	0.824	0.808	0.839	0.830	7.9
2-Butanone (MEK)		0.045	0.065	0.070	0.072	0.076	0.079	0.082	0.070	17.6
Propionitrile		0.005	0.010	0.013	0.014	0.013	0.014	0.015	0.012	29.7
Bromochloromethane	0.469	0.476	0.539	0.520	0.501	0.475	0.476	0.497	0.494	5.1
Methacrylonitrile	0.080	0.131	0.133	0.143	0.134	0.127	0.125	0.121	0.124	15.4
Chloroform	1.036	1.011	1.122	1.096	1.071	1.027	1.049	1.057	1.059	3.5
1,1,1-Trichloroethane	1.180	1.310	1.374	1.361	1.313	1.267	1.291	1.294	1.299	4.6
Dibromofluoromethane (Surr1)	0.209	0.213	0.215	0.213	0.201	0.198	0.199	0.200	0.206	3.5
Carbon Tetrachloride	0.995	1.022	1.085	1.128	1.073	1.025	1.052	1.064	1.056	4.0
Tetrahydrofuran			0.047	0.042	0.037	0.038	0.043	0.042	0.041	9.2
1,1-Dichloropropene	0.820	0.818	0.882	0.849	0.813	0.780	0.761	0.774	0.812	5.0
Benzene	0.898	0.870	0.880	0.867	0.829	0.796	0.818	0.841	0.850	4.1
1,2-Dichloroethane-d4 (Surr2)	0.292	0.322	0.306	0.298	0.277	0.252	0.242	0.249	0.280	10.6
1,2-Dichloroethane	0.447	0.565	0.626	0.623	0.562	0.535	0.523	0.509	0.549	10.8
tert-Amyl-methyl-ether	0.850	0.971	0.995	0.946	0.914	0.878	0.860	0.872	0.911	6.0
Trichloroethene	1.123	1.289	1.345	1.338	1.307	1.271	1.276	1.281	1.279	5.4
Methyl methacrylate	0.219	0.057	0.187	0.212	0.212	0.206	0.199	0.195	0.186	28.5
1,2-Dichloropropane	0.308	0.348	0.377	0.351	0.342	0.324	0.299	0.294	0.330	8.8
Dibromomethane	0.351	0.391	0.447	0.439	0.421	0.418	0.406	0.412	0.411	7.3
Bromodichloromethane	0.763	0.924	1.001	0.942	0.947	0.920	0.942	0.951	0.924	7.5
2-Chloroethyl vinyl ether	0.041	0.029	0.045	0.041	0.041	0.046	0.047	0.049	0.042	14.8

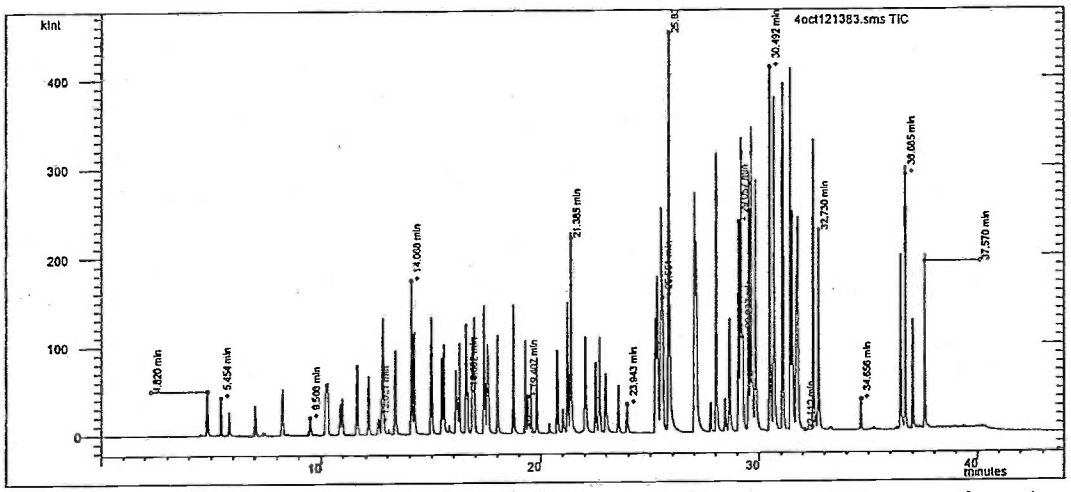
Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
c-1,3-Dichloropropene	0.764	0.901	1.089	1.056	1.052	0.987	0.969	0.967	0.973	10.7
4-Methyl-2-pentanone		0.169	0.258	0.285	0.278	0.276	0.281	0.284	0.261	16.0
Toluene-d8 (Surr3)	1.339	1.343	1.380	1.315	1.354	1.343	1.312	1.317	1.338	1.7
Toluene	3.125	3.269	3.329	3.222	3.138	3.038	3.022	3.097	3.155	3.5
Ethyl methacrylate			0.169	0.179	0.185	0.186	0.193	0.196	0.185	5.4
2-Hexanone		0.024	0.126	0.192	0.219	0.232	0.242	0.258	0.185	45.0
t-1,3-Dichloropropene	0.361	0.468	0.503	0.488	0.482	0.471	0.456	0.456	0.460	9.4
1,1,2-Trichloroethane	0.363	0.442	0.514	0.511	0.507	0.495	0.491	0.507	0.479	10.9
Tetrachloroethene	0.146	0.147	0.147	0.148	0.139	0.133	0.143	0.133	0.142	4.3
1,3-Dichloropropane	0.554	0.632	0.760	0.736	0.726	0.725	0.731	0.746	0.701	10.1
Dibromochloromethane	0.467	0.547	0.644	0.641	0.636	0.626	0.632	0.649	0.605	10.7
1,2-Dibromoethane	0.403	0.569	0.645	0.642	0.649	0.654	0.654	0.663	0.610	14.5
Chlorobenzene	2.127	2.014	2.069	2.048	2.015	1.953	1.973	1.969	2.021	2.9
Ethylbenzene	6.696	6.717	7.277	6.880	6.545	6.255	6.431	6.309	6.639	5.0
1,1,1,2-Tetrachloroethane	1.153	1.337	1.571	1.423	1.337	1.235	1.286	1.265	1.326	9.6
p,m-Xylenes	6.345	6.503	6.951	6.553	6.240	5.970	6.106	6.051	6.340	5.1
o-Xylene	6.423	6.627	7.071	6.648	6.203	6.010	6.238	6.132	6.419	5.4
Styrene	2.971	3.676	4.254	4.086	3.972	3.883	4.003	4.011	3.857	10.2
Bromoform	0.579	0.636	0.678	0.659	0.625	0.622	0.649	0.638	0.636	4.6
Isopropylbenzene	6.806	7.064	7.345	7.093	6.836	6.473	6.734	6.568	6.865	4.2
cis-1,4-Dichloro-2-butene	0.091	0.101	0.119	0.113	0.112	0.110	0.113	0.114	0.109	8.2
p-Bromofluorobenzene (Surr4)	1.310	1.222	1.268	1.236	1.199	1.224	1.255	1.213	1.241	2.9
1,1,2,2-Tetrachloroethane	0.900	1.029	1.079	0.987	0.956	0.930	0.975	0.952	0.976	5.8
Bromobenzene	2.800	2.884	3.116	3.255	2.938	2.915	2.974	2.927	2.976	4.8
n-Propylbenzene	7.973	8.169	8.639	8.324	8.004	7.628	7.637	7.657	8.004	4.6
trans-1,4-Dichloro-2-butene	0.436	0.510	0.570	0.526	0.499	0.478	0.506	0.501	0.503	7.6
1,2,3-Trichloropropane	0.664	0.688	0.758	0.693	0.645	0.614	0.644	0.638	0.668	6.7
2-Chlorotoluene	4.826	5.218	5.485	5.241	5.138	4.832	4.952	5.032	5.091	4.4
1,3,5-Trimethylbenzene	8.189	7.648	7.896	7.573	7.253	7.055	7.217	7.250	7.510	5.2
4-Chlorotoluene	4.566	5.142	5.325	5.069	4.911	4.735	4.867	4.792	4.926	4.9
tert-Butylbenzene	9.758	9.825	10.014	9.403	8.988	8.569	8.723	8.530	9.226	6.5
1,2,4-Trimethylbenzene	6.930	6.820	7.063	7.222	7.003	7.137	7.499	7.866	7.192	4.7
Pentachloroethane	1.085	1.027	1.036	0.977	0.921	0.925	0.897	0.943	0.976	6.8
sec-Butylbenzene	7.759	7.659	7.884	7.625	7.240	7.151	7.139	7.202	7.457	4.1

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
4-Isopropyltoluene	5.814	5.671	5.830	5.457	5.257	5.131	5.248	5.207	5.452	5.2
1,3-Dichlorobenzene	3.837	3.890	4.167	4.060	3.763	3.635	3.695	3.745	3.849	4.8
1,4-Dichlorobenzene	3.745	3.904	4.221	4.143	3.763	3.708	3.706	3.745	3.867	5.3
n-Butylbenzene	5.663	5.481	5.736	5.881	5.730	5.775	5.919	6.204	5.799	3.7
1,2-Dichlorobenzene	3.740	3.656	3.831	3.709	3.494	3.581	3.513	3.641	3.646	3.1
1,2-Dibromo-3-chloropropane	0.429	0.367	0.393	0.392	0.370	0.404	0.387	0.412	0.394	5.3
1,2,4-Trichlorobenzene	3.484	2.526	2.471	2.388	2.267	2.209	2.147	2.319	2.476	17.2
Hexachlorobutadiene	2.195	1.724	1.695	1.611	1.532	1.454	1.459	1.479	1.644	15.0
Naphthalene		1.954	1.970	1.854	1.713	1.834	1.652	1.885	1.837	6.4
1,2,3-Trichlorobenzene	3.210	2.515	2.378	2.323	2.212	2.178	2.115	2.287	2.402	14.5
									Average %RSD	8.2

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121383.sms	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	25ppb 524.2 ccv 1	**Acquisition Date:**	10/19/2012 3:28:56 AM
Inj. Notes:	w#12090602	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	890	189709	25.000
25.231	117.0	Chlorobenzene-d5(IS2)	995	161370	25.000
31.712	152.0	1,4-Dichlorobenzene-d4(IS3)	963	90615	25.000
4.820	85.0	Dichlorodifluoromethane	956	85179	26.081
5.454	50.0+52.0+49.0	Chloromethane	990	78525	27.274
5.821	62.0+64.0	Vinyl Chloride	998	72144	25.233
7.021	94.0+45.0	Bromomethane	936	26873	24.179
7.403	45.0+49.0	Chloroethane	762	4581	24.215
8.252	101.0+103.0	Trichlorofluoromethane	979	185663	25.895
9.508	59.0	Ethyl ether	979	17286	26.608
10.223	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	919	109129	25.665
11.202	56.0	Acrolein	550		N/A
10.301	96.0+61.0+98.0	1,1-Dichloroethene	948	139906	25.397
10.857	142.0	Iodomethane	939	102854	25.525
10.798	43.0+58.0	Acetone	900	7616	23.510
11.515	45.0	Isopropyl alcohol (2-Propanol)	750		N/A
10.968	76.0	Carbon disulfide	721	110487	24.261
13.363	41.0	Acetonitrile	795	106814	26.519
11.633	41.0+39.0	Allyl chloride	959	206722	25.672
12.131	84.0+49.0+86.0	Methylene Chloride	892	144415	23.247
12.621	59.0	tert-Butanol	952	16678	123.873
12.767	73.0	Methyl-tert-butyl-ether (MTBE)	981	87000	24.628
12.807	61.0+96.0	t-1,2-Dichloroethene	978	169041	25.611

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.073	53.0	Acrylonitrile	990	5156	23.629
13.364	41.0	n-Hexane	997	106878	26.468
14.075	63.0	1,1-Dichloroethane	980	116738	27.057
14.298	43.0	Vinyl acetate	149		N/A
14.068	45.0	Isopropyl ether	954	171209	27.643
14.213	53.0	Chloroprene	995	121873	26.642
14.971	59.0	Ethyl-tert-butyl-ether	988	188486	26.705
15.450	77.0+41.0	2,2-Dichloropropane	998	128432	22.138
15.558	61.0+96.0	c-1,2-Dichloroethene	988	170337	27.054
15.659	43.0+72.0	2-Butanone (MEK)	778	13430	25.364
15.938	54.0	Propionitrile	845	2144	23.812
16.119	130.0+49.0	Bromochloromethane	997	98978	26.397
17.538	39.0	Methacrylonitrile	328	26469	28.070
16.279	83.0+85.0	Chloroform	995	205501	25.582
16.581	97.0+99.0	1,1,1-Trichloroethane	997	249538	25.322
16.652	111.0	Dibromofluoromethane (Surr1)	985	40319	25.800
16.874	117.0+119.0	Carbon Tetrachloride	990	203783	25.437
16.176	42.0+72.0	Tetrahydrofuran	666	7809	24.807
16.950	75.0+39.0	1,1-Dichloropropene	998	153849	24.964
17.383	78.0	Benzene	992	159274	24.700
17.425	65.0	1,2-Dichloroethane-d4 (Surr2)	976	55138	25.970
17.589	62.0+64.0	1,2-Dichloroethane	981	116558	27.988
17.540	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	181064	26.205
18.745	130.0+132.0+95.0	Trichloroethene	996	209978	25.441
19.407	41.0	Methyl methacrylate	998	35650	29.695
19.283	63.0+65.0	1,2-Dichloropropane	998	56857	26.655
19.551	93.0+174.0	Dibromomethane	992	69684	26.295
20.281	88.0	1,4-Dioxane	468		N/A
19.824	83.0+85.0	Bromodichloromethane	998	151665	25.441
20.404	63.0+43.0	2-Chloroethyl vinyl ether	692	6912	25.268
20.750	75.0+77.0+39.0	c-1,3-Dichloropropene	955	165273	26.313
21.017	43.0+58.0	4-Methyl-2-pentanone	989	47407	28.109
21.233	98.0	Toluene-d8 (Surr3)	996	215731	24.982
21.385	92.0+91.0	Toluene	998	508598	24.974
22.029	69.0	Ethyl methacrylate	989	29880	25.078
23.048	43.0+58.0+100.0	2-Hexanone	993	31215	26.193
22.057	75.0+77.0	t-1,3-Dichloropropene	983	76390	25.701
22.518	97.0+99.0	1,1,2-Trichloroethane	998	82557	26.717
22.685	164.0+166.0	Tetrachloroethene	997	23278	25.405
22.979	76.0+41.0	1,3-Dichloropropane	997	119751	26.460
17.440	41.0	Isobutyl alcohol	247		N/A
23.546	129.0+127.0	Dibromochloromethane	997	102460	26.222
23.943	107.0+109.0	1,2-Dibromoethane	998	105633	26.835
25.749	91.0	1-Chlorohexane	986		N/A
25.313	112.0+114.0	Chlorobenzene	991	327214	25.085
25.481	106.0+91.0	Ethylbenzene	996	606645	25.211
25.551	131.0+117.0	1,1,1,2-Tetrachloroethane	996	127843	26.601
25.834	106.0+91.0	p,m-Xylenes	998	1.154E6	50.198
27.029	106.0+91.0	o-Xylene	997	588039	25.274
27.105	104.0+78.0	Styrene	995	368825	26.382
27.767	171.0+173.0+175.0	Bromoform	989	59031	25.619

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.014	105.0+120.0	Isopropylbenzene	992	623337	25.051
28.440	75.0	cis-1,4-Dichloro-2-butene	996	9288	23.509
28.637	95.0	p-Bromofluorobenzene (Surr4)	998	113478	25.231
29.072	83.0+85.0	1,1,2,2-Tetrachloroethane	996	90432	25.562
29.057	77.0+158.0	Bromobenzene	994	286893	26.595
29.164	91.0+120.0	n-Propylbenzene	996	724472	24.973
29.237	75.0	trans-1,4-Dichloro-2-butene	990	47736	26.176
29.235	75.0+110.0	1,2,3-Trichloropropane	981	62663	25.876
29.526	91.0+126.0	2-Chlorotoluene	997	461130	24.992
29.644	105.0+120.0	1,3,5-Trimethylbenzene	997	661825	24.313
29.527	91.0+126.0	4-Chlorotoluene	995	454089	25.433
30.492	119.0+91.0	tert-Butylbenzene	866	848830	25.382
30.666	105.0+120.0	1,2,4-Trimethylbenzene	997	617999	23.705
31.431	117.0	Pentachloroethane	420	88466	25.003
31.072	105.0+134.0	sec-Butylbenzene	992	677372	25.060
30.488	119.0	4-Isopropyltoluene	878	492393	24.918
31.530	146.0+148.0	1,3-Dichlorobenzene	996	340872	24.433
31.528	146.0+148.0	1,4-Dichlorobenzene	996	344255	24.561
32.112	91.0	Benzyl Chloride	693		N/A
32.484	91.0+134.0	n-Butylbenzene	996	467775	22.256
32.730	146.0+148.0	1,2-Dichlorobenzene	996	324560	24.562
34.656	75.0+157.0	1,2-Dibromo-3-chloropropane	976	36199	25.326
37.565	180.0+182.0	1,2,4-Trichlorobenzene	989	198290	22.093
36.685	225.0+226.0	Hexachlorobutadiene	977	132506	22.241
37.029	128.0	Naphthalene	997	164753	24.739
37.570	180.0+182.0	1,2,3-Trichlorobenzene	997	192944	22.160

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 4 Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\4oct12\4oct121383.sms Lab Sample ID: 25ppb 524.2 ccv 1

Instrument ID: Date Analyzed: 10/19/2012 Time Analyzed: 03:28

GC Column: ID: (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	189709	18.01	161370	25.23	90615	31.71						
UPPER LIMIT	379418	18.51	322740	25.73	181230	32.21						
LOWER LIMIT	94855	17.51	80685	24.73	45308	31.21						
EPA SAMPLE NO												
4oct121362	179830	18.00	147011	25.22	76556	31.71						
4oct121364	180474	18.00	151407	25.21	85930	31.71						
4oct121366	188129	18.00	156992	25.22	86327	31.70						
4oct121368	186528	18.00	162071	25.22	89391	31.70						
4oct121370	193614	18.00	163622	25.22	93444	31.71						
4oct121372	188141	18.01	159138	25.23	93087	31.70						
4oct121375	203095	18.01	175582	25.22	97964	31.70						
4oct121377	190141	18.00	164258	25.22	94309	31.70						

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											

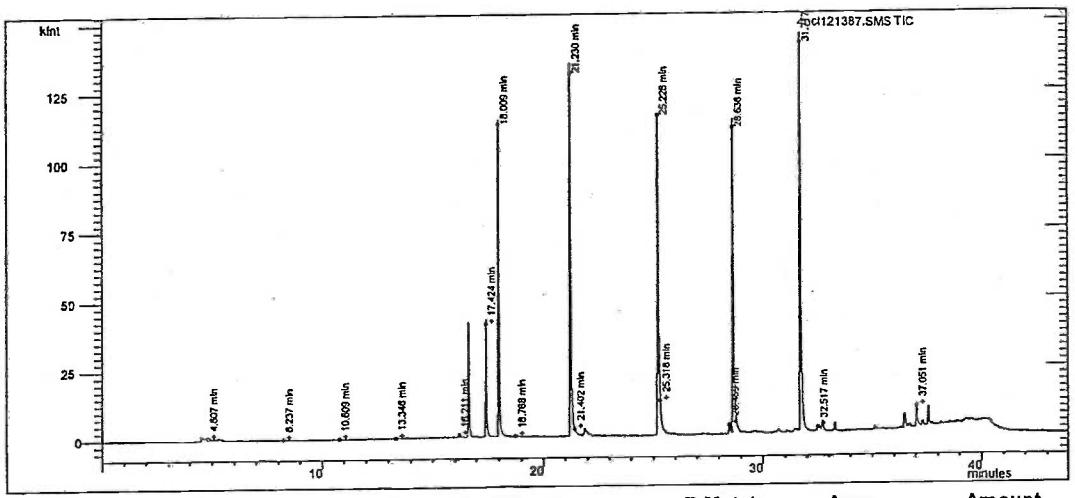
IS1 = Fluorobenzene (IS1)
IS2 = Chlorobenzene-d5(IS2)
IS3 = 1,4-Dichlorobenzene-d4(IS3)

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	C:\VarianWS\data\4Oct12\4oct121387.SMS	Calc Method:	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	method blk 1	Acquisition Date:	10/19/2012 6:48:20 AM
Inj. Notes:	w#12090702	Operator Name:	NZ

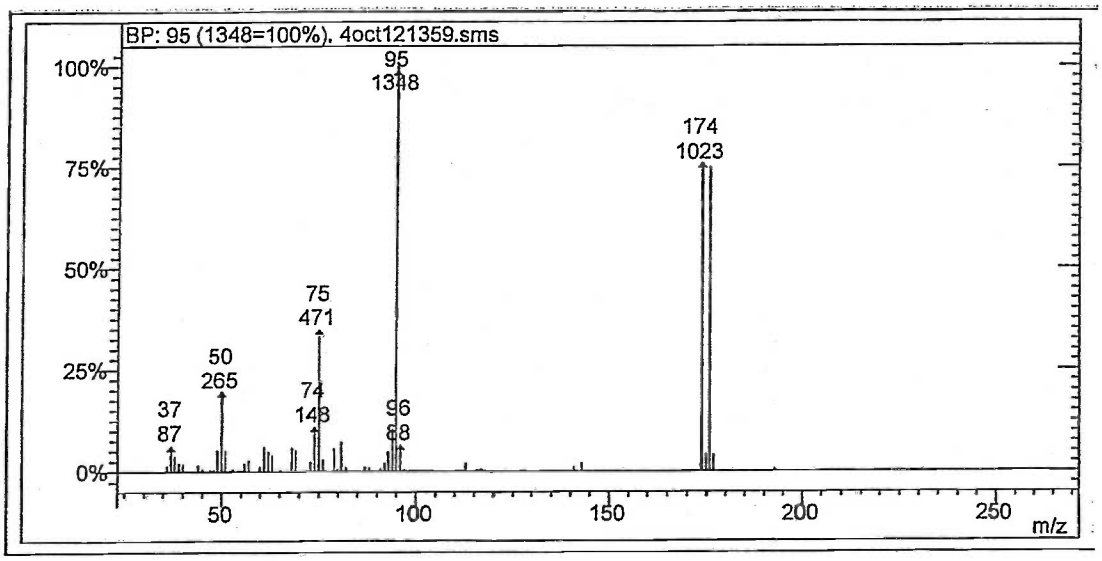


RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	920	188573	25.000
25.228	117.0	Chlorobenzene-d5(IS2)	996	158103	25.000
31.717	152.0	1,4-Dichlorobenzene-d4(IS3)	966	86168	25.000
4.807	85.0	Dichlorodifluoromethane	740		N/A
5.446	50.0+52.0+49.0	Chloromethane	519		N/A
5.812	62.0+64.0	Vinyl Chloride	790		N/A
7.014	94.0+45.0	Bromomethane	674		N/A
7.411	45.0+49.0	Chloroethane	420		N/A
8.237	101.0+103.0	Trichlorofluoromethane	719		N/A
9.497	59.0	Ethyl ether	736		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	525		N/A
11.202	56.0	Acrolein	529		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	571		N/A
10.845	142.0	Iodomethane	878		N/A
10.809	43.0+58.0	Acetone	836	346	1.075
11.515	45.0	Isopropyl alcohol (2-Propanol)	657		N/A
10.957	76.0	Carbon disulfide	548		N/A
13.346	41.0	Acetonitrile	667		N/A
11.623	41.0+39.0	Allyl chloride	702		N/A
12.124	84.0+49.0+86.0	Methylene Chloride	892	421	0.068
12.615	59.0	tert-Butanol	613		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	611		N/A
12.806	61.0+96.0	t-1,2-Dichloroethene	646	110	0.017

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	454		N/A
13.360	41.0	n-Hexane	523		N/A
14.068	63.0	1,1-Dichloroethane	636		N/A
14.298	43.0	Vinyl acetate	481		N/A
14.055	45.0	Isopropyl ether	654		N/A
14.201	53.0	Chloroprene	536		N/A
14.968	59.0	Ethyl-tert-butyl-ether	423		N/A
15.440	77.0+41.0	2,2-Dichloropropane	693		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	703		N/A
15.719	43.0+72.0	2-Butanone (MEK)	500		N/A
15.948	54.0	Propionitrile	422		N/A
16.126	130.0+49.0	Bromochloromethane	774	54	0.015
17.528	39.0	Methacrylonitrile	378		N/A
16.285	83.0+85.0	Chloroform	698	106	0.013
16.584	97.0+99.0	1,1,1-Trichloroethane	510		N/A
16.651	111.0	Dibromofluoromethane (Surr1)	986	41299	26.586
16.861	117.0+119.0	Carbon Tetrachloride	613		N/A
16.211	42.0+72.0	Tetrahydrofuran	728	662	2.115
16.949	75.0+39.0	1,1-Dichloropropene	682		N/A
17.417	78.0	Benzene	426	165	0.026
17.424	65.0	1,2-Dichloroethane-d4 (Surr2)	987	64074	30.360
17.467	62.0+64.0	1,2-Dichloroethane	334	29	0.007
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	539		N/A
18.768	130.0+132.0+95.0	Trichloroethene	793	168	0.021
19.397	41.0	Methyl methacrylate	652		N/A
19.273	63.0+65.0	1,2-Dichloropropane	761		N/A
19.543	93.0+174.0	Dibromomethane	811		N/A
20.281	88.0	1,4-Dioxane	470		N/A
19.821	83.0+85.0	Bromodichloromethane	603		N/A
20.393	63.0+43.0	2-Chloroethyl vinyl ether	771		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	676		N/A
21.126	43.0+58.0	4-Methyl-2-pentanone	512	20	0.012
21.230	98.0	Toluene-d8 (Surr3)	997	208351	24.626
21.402	92.0+91.0	Toluene	341	329	0.016
22.013	69.0	Ethyl methacrylate	516		N/A
23.027	43.0+58.0+100.0	2-Hexanone	537		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	389		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	688		N/A
22.669	164.0+166.0	Tetrachloroethene	735		N/A
23.022	76.0+41.0	1,3-Dichloropropane	670	191	0.043
17.440	41.0	Isobutyl alcohol	518		N/A
23.570	129.0+127.0	Dibromochloromethane	717	14	0.004
24.009	107.0+109.0	1,2-Dibromoethane	808	34	0.009
25.749	91.0	1-Chlorohexane	721		N/A
25.318	112.0+114.0	Chlorobenzene	306	606	0.047
25.481	106.0+91.0	Ethylbenzene	769		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	530		N/A
25.823	106.0+91.0	p,m-Xylenes	849		N/A
27.024	106.0+91.0	o-Xylene	872		N/A
27.259	104.0+78.0	Styrene	838	443	0.033
27.810	171.0+173.0+175.0	Bromoform	731	22	0.010

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.042	105.0+120.0	Isopropylbenzene	943	309	0.013
28.459	75.0	cis-1,4-Dichloro-2-butene	635	47	0.126
28.636	95.0	p-Bromofluorobenzene (Surr4)	998	107908	25.231
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	808		N/A
29.044	77.0+158.0	Bromobenzene	940		N/A
29.148	91.0+120.0	n-Propylbenzene	920		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	633		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	653		N/A
29.517	91.0+126.0	2-Chlorotoluene	889		N/A
29.676	105.0+120.0	1,3,5-Trimethylbenzene	888	2433	0.094
29.521	91.0+126.0	4-Chlorotoluene	882		N/A
30.485	119.0+91.0	tert-Butylbenzene	776		N/A
30.695	105.0+120.0	1,2,4-Trimethylbenzene	992	3172	0.128
31.431	117.0	Pentachloroethane	568		N/A
31.088	105.0+134.0	sec-Butylbenzene	931	1796	0.070
30.512	119.0	4-Isopropyltoluene	766	727	0.039
31.556	146.0+148.0	1,3-Dichlorobenzene	953	1319	0.099
31.557	146.0+148.0	1,4-Dichlorobenzene	941	1376	0.103
32.112	91.0	Benzyl Chloride	488		N/A
32.517	91.0+134.0	n-Butylbenzene	949	3821	0.191
32.750	146.0+148.0	1,2-Dichlorobenzene	927	1451	0.116
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	843		N/A
37.580	180.0+182.0	1,2,4-Trichlorobenzene	993	8974	1.051
36.683	225.0+226.0	Hexachlorobutadiene	937		N/A
37.051	128.0	Naphthalene	996	11273	1.780
37.580	180.0+182.0	1,2,3-Trichlorobenzene	994	8337	1.007

BFB 8260B Report



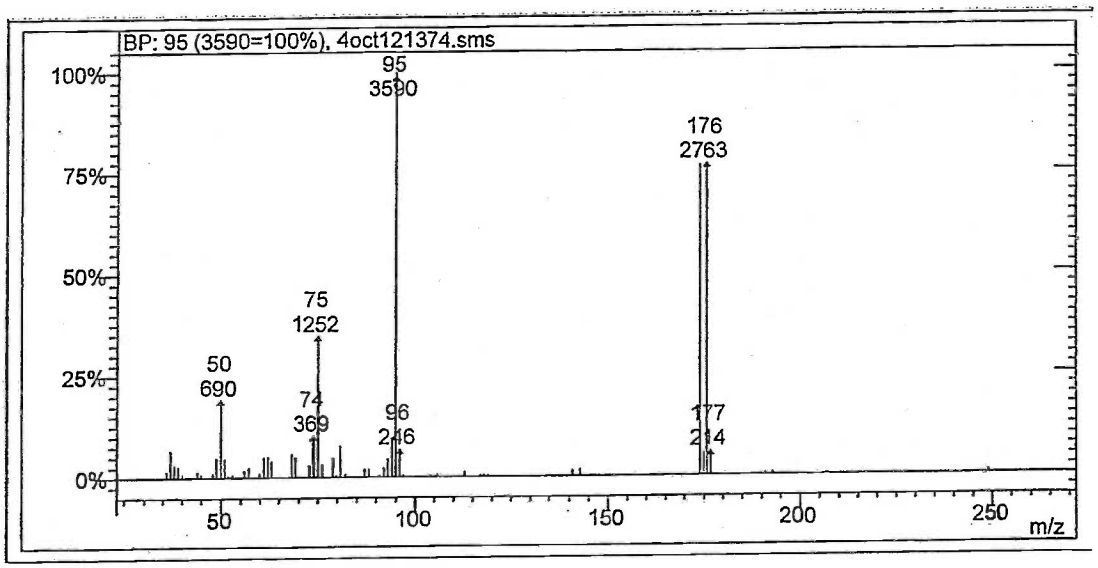
Lab File ID: 4oct121359.sms

Injection Date: 10/18/2012

Injection Time: 7:47

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.66	PASS
75	30-60% of m/z 95	34.94	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.53	PASS
173	<2% of m/z 174	0.20	PASS
174	>50% of m/z 95	75.89	PASS
175	5-9% of m/z 174	5.47	PASS
176	>95% but <101% of m/z 174	98.63	PASS
177	5-9% of m/z 176	5.25	PASS

BFB 8260B Report



Lab File ID: 4oct121374.sms

Injection Date: 10/18/2012

Injection Time: 20:05

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.22	PASS
75	30-60% of m/z 95	34.87	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.85	PASS
173	<2% of m/z 174	0.15	PASS
174	>50% of m/z 95	76.55	PASS
175	5-9% of m/z 174	7.17	PASS
176	>95% but <101% of m/z 174	100.55	PASS
177	5-9% of m/z 176	7.75	PASS

ALAB : 00191

CONFIDENTIAL

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130739

Created Date: 10/22/2012
Created By: nicollez
Matrix: Water

Test: 8260B Alab Low
Method: EPA 8260B
Instrument: VOA-MS (group)
AnalysisDate: 10/19/2012
AnalysisEmployee: nicollez

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Extraction Time	Comments
0	Method Blank_1									
1	LCS_1									
2	311963-009	MW-11	311963-009							
3	311995-004	B-6-CW03R	311995-004							
4	311995-006	B-1-CW28	311995-006							
5	311995-008	A-1-CW09	311995-008							
6	312094-001	TB101312	312094-001							
7	312094-002	B-1-CW20	312094-002							
8	312094-003	C-1-CW06	312094-003							
9	312094-004	B-5-CW02	312094-004							
10	312094-005	M-W-6	312094-005							
11	312094-006	C-1-CW08	312094-006							
12	312205-001	TB101612	312205-001							
13	312205-002	MW-8	312205-002							
14	312205-004	MW-5	312205-004							
15	312205-006	B-6-CW16	312205-006							
16	312205-007	EB101612 Equip Blank	312205-007							

InitialCalibSTD: w#12090602
CalibCheckSTD: w#12090602
InternalSTD: w#12090702
SurrogateSTD: w#12090702
LCSSTD: w#12090604
MSSTD: w#12090604

Solvent Manufacturer and Lot:
Sand Manufacturer and Lot:
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:

Prep By Signature: _____

LMC-PET-00002089

QCBatchID: QC1130739

Created Date: 10/22/2012
Created By: nicollez
Matrix: Water

Test: 8260B Alab Low
Method: EPA 8260B
Instrument: VOA-MS (group)
AnalysisDate: 10/19/2012
AnalysisEmployee: nicollez

Seq #	Sample ID	Customer Sample ID	QC Source	Sur Added	Spk Added	Init. Wt/Vol	Final Vol	Extraction Date	Extraction Time	Comments
17	MS_1		312094-002							
18	MSD_1		312094-002							

InitialCalibSTD:	w#12090602	Solvent Manufacturer and Lot:	
CalibCheckSTD:	w#12090602	Sand Manufacturer and Lot:	
InternalSTD:	w#12090702	Na2SO4 Manufacturer and Lot:	
SurrogateSTD:	w#12090702	Surrogate Lot:	
LCSSTD:	w#12090604	Spike Lot:	
MSSTD:	w#12090604	Prep By Signature:	

****

Varian Star Workstation - Recalc List Sat Oct 20 11:32:37 2012

RecalcList: C:\VarianWS\8260list.rcl

Created: Wed Dec 01 10:37:29 2004
Modified: Sat Oct 20 11:32:32 2012

QC 1130739

****

Line	Sample Name	Data File
1	10ppb BFB tune 1	c:\varianws\data\4oct12\4oct121381.SMS
2	50ppb 8260 ccv 1	c:\varianws\data\4oct12\4oct121382.SMS
3	25ppb 524.2 ccv 1	c:\varianws\data\4oct12\4oct121383.SMS
4	50ppb 8260 lcs 1	c:\varianws\data\4oct12\4oct121384.SMS
5	25ppb 524.2 lcs 1	c:\varianws\data\4oct12\4oct121385.SMS
6	rinse	c:\varianws\data\4oct12\4oct121386.SMS
7	method blk 1	c:\varianws\data\4oct12\4oct121387.SMS
8	312094-001_10mL-1	c:\varianws\data\4oct12\4oct121388.SMS
9	312094-002_10mL-8	c:\varianws\data\4oct12\4oct121389.SMS
10	312094-004_10mL-5	c:\varianws\data\4oct12\4oct121390.SMS
11	312094-005_10mL-8	c:\varianws\data\4oct12\4oct121391.SMS
12	312094-006_10mL-8	c:\varianws\data\4oct12\4oct121392.SMS
13	312094-003_1mL-8	c:\varianws\data\4oct12\4oct121393.SMS
14	311963-009_10mL-2	c:\varianws\data\4oct12\4oct121394.SMS
15	312094-003_10mL-8	c:\varianws\data\4oct12\4oct121395.SMS
16	MS_312094-002_10mL	c:\varianws\data\4oct12\4oct121396.SMS
17	MSD_312094-002_10mL	c:\varianws\data\4oct12\4oct121397.SMS
18	50ppb 8260 ccv 1	c:\varianws\data\4oct12\4oct121398.SMS
19	10ppb BFB tune 2	c:\varianws\data\4oct12\4oct121399.SMS
20	25ppb 524.2 ccv 2	c:\varianws\data\4oct12\4oct121400.SMS
21	25ppb 524.2 lcs 2 ✓	c:\varianws\data\4oct12\4oct121401.SMS
22	rinse	c:\varianws\data\4oct12\4oct121402.SMS
23	method blk 2	c:\varianws\data\4oct12\4oct121403.SMS
24	312205-001_10mL-1	c:\varianws\data\4oct12\4oct121404.SMS
25	312205-007_10mL-1	c:\varianws\data\4oct12\4oct121405.SMS
26	311995-004_10mL-4	c:\varianws\data\4oct12\4oct121406.SMS
27	311995-006_10mL-2	c:\varianws\data\4oct12\4oct121407.SMS
28	311995-008_10mL-7	c:\varianws\data\4oct12\4oct121408.SMS
29	312205-006_10mL-7	c:\varianws\data\4oct12\4oct121409.SMS
30	312205-002_10mL-1	c:\varianws\data\4oct12\4oct121410.SMS
31	312205-004_10mL-1	c:\varianws\data\4oct12\4oct121411.SMS
32	312080-011_1mL-1	c:\varianws\data\4oct12\4oct121412.SMS
33	312080-012_1mL-2	c:\varianws\data\4oct12\4oct121413.SMS
34	20ppb 524.2 ccv 3	c:\varianws\data\4oct12\4oct121414.SMS

#4 10/19 ~ 10/20/12 524.2

ALAB: 00194

WATER VOLATILE SURROGATE RECOVERY

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 4 Case No.: SAS No: SDG No:

EPA Sample No	S1 #	S2 #	S3 #	S4 #	TOTAL OUT
4oct121381	0 D	119	18	* 896 *	2
4oct121382	201 *	213 *	196	* 202 *	4
4oct121383	103	104	100	101	0
4oct121384	200 *	217 *	199	* 194 *	4
4oct121385	103	104	103	104	0
4oct121386	110	121	102	108	0
4oct121387	106	121	99	101	0
4oct121388	105	113	102	106	0
4oct121389	100	107	103	110	0
4oct121390	104	115	101	109	0
4oct121391	101	111	105	105	0
4oct121392	104	114	105	110	0
4oct121393	104	109	103	108	0
4oct121394	101	111	102	105	0
4oct121395	103	113	103	109	0
4oct121396	101	109	103	95	0
4oct121397	105	113	100	95	0
4oct121398	201 *	215 *	201	* 193 *	4
4oct121399	0 D	0 D	43	* 580 *	2
4oct121400	102	103	101	99	0
4oct121401	100	101	103	100	0

8260

8260

EPA Sample No	S1 #	S2 #	S3 #	S4 #	TOTAL OUT
4oct121402	104	111	105	107	0
4oct121403	108	126	100	109	0
4oct121404	103	112	102	106	0
4oct121405	103	114	100	105	0
4oct121406	104	114	103	109	0
4oct121407	104	110	102	111	0
4oct121408	102	110	103	111	0
4oct121409	104	106	102	114	0
4oct121410	102	110	76	106	0
4oct121411	104	111	101	109	0
4oct121412	100	104	106	110	0
4oct121413	97	105	101	111	0
4oct121414	104	111	95	99	0
Replicates:	34	34	34	34	
Average:	108	120	109	242	
StdDev:	42	40	38	514	

		QC Limits
S1	= Dibromofluoromethane (Surr1)	(70 - 135)
S2	= 1,2-Dichloroethane-d4 (Surr2)	(70 - 135)
S3	= Toluene-d8 (Surr3)	(70 - 135)
S4	= p-Bromofluorobenzene (Surr4)	(70 - 135)

Column to be used to flag recovery values.

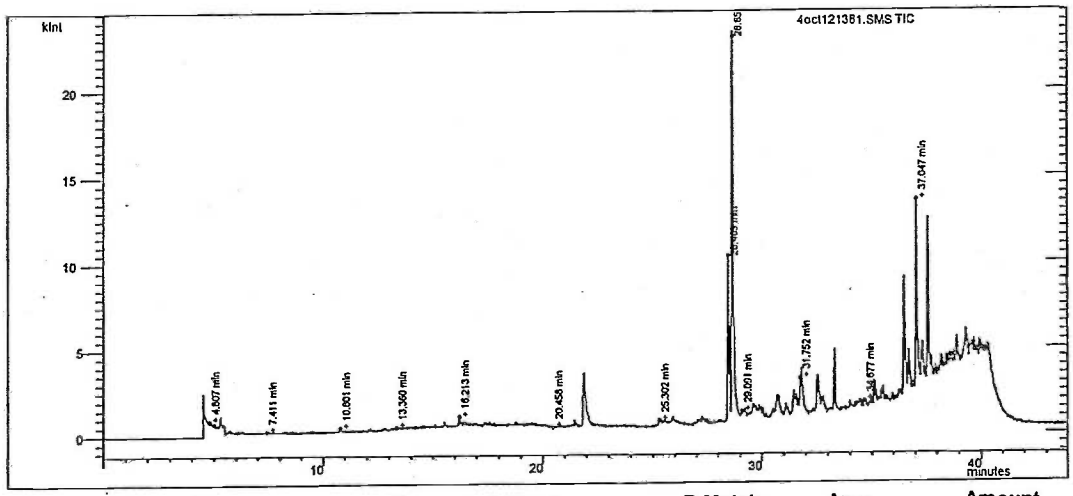
* Values outside of contract required QC Limits

D System Monitoring Compound diluted out

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	C:\VarianWS\data\4Oct12\4oct121381.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	10ppb BFB tune 1	**Acquisition Date:**	10/19/2012 1:51:02 AM
Inj. Notes:	w#12062102	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.003	96.0+70.0	Fluorobenzene (IS1)	725		N/A
25.302	117.0	Chlorobenzene-d5(IS2)	850	406	25.000
31.752	152.0	1,4-Dichlorobenzene-d4(IS3)	959	1047	25.000
4.807	85.0	Dichlorodifluoromethane	751		N/A
5.446	50.0+52.0+49.0	Chloromethane	384		N/A
5.812	62.0+64.0	Vinyl Chloride	784		N/A
7.014	94.0+45.0	Bromomethane	666		N/A
7.411	45.0+49.0	Chloroethane	424		N/A
8.237	101.0+103.0	Trichlorofluoromethane	848		N/A
9.497	59.0	Ethyl ether	667		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	543		N/A
11.202	56.0	Acrolein	723		N/A
10.311	96.0+61.0+98.0	1,1-Dichloroethene	566	19	19.281
10.845	142.0	Iodomethane	775		N/A
10.801	43.0+58.0	Acetone	855	657	656.797
11.515	45.0	Isopropyl alcohol (2-Propanol)	698		N/A
10.957	76.0	Carbon disulfide	550		N/A
13.346	41.0	Acetonitrile	907		N/A
11.623	41.0+39.0	Allyl chloride	680		N/A
12.137	84.0+49.0+86.0	Methylene Chloride	889	362	362.319
12.615	59.0	tert-Butanol	452		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	752		N/A
12.809	61.0+96.0	t-1,2-Dichloroethene	700	140	139.905

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	646		N/A
13.360	41.0	n-Hexane	641		N/A
14.068	63.0	1,1-Dichloroethane	665		N/A
14.298	43.0	Vinyl acetate	491		N/A
14.055	45.0	Isopropyl ether	744		N/A
14.201	53.0	Chloroprene	728		N/A
14.968	59.0	Ethyl-tert-butyl-ether	347		N/A
15.440	77.0+41.0	2,2-Dichloropropane	663		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	831		N/A
15.719	43.0+72.0	2-Butanone (MEK)	510		N/A
15.948	54.0	Propionitrile	476		N/A
16.132	130.0+49.0	Bromochloromethane	711	91	91.362
17.528	39.0	Methacrylonitrile	542		N/A
16.300	83.0+85.0	Chloroform	754	92	92.097
16.584	97.0+99.0	1,1,1-Trichloroethane	551		N/A
16.648	111.0	Dibromofluoromethane (Surr1)	255		N/A
16.861	117.0+119.0	Carbon Tetrachloride	676		N/A
16.213	42.0+72.0	Tetrahydrofuran	693	467	467.027
16.949	75.0+39.0	1,1-Dichloropropene	829		N/A
17.391	78.0	Benzene	843	131	130.963
17.447	65.0	1,2-Dichloroethane-d4 (Surr2)	698	30	29.862
17.626	62.0+64.0	1,2-Dichloroethane	683	74	73.983
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	693		N/A
18.767	130.0+132.0+95.0	Trichloroethene	865	178	8.588
19.397	41.0	Methyl methacrylate	665		N/A
19.273	63.0+65.0	1,2-Dichloropropane	753		N/A
19.563	93.0+174.0	Dibromomethane	744	75	11.279
20.281	88.0	1,4-Dioxane	353		N/A
19.841	83.0+85.0	Bromodichloromethane	630	50	3.312
20.458	63.0+43.0	2-Chloroethyl vinyl ether	477	17	24.793
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	614		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	628		N/A
21.301	98.0	Toluene-d8 (Surr3)	813	97	4.484
21.369	92.0+91.0	Toluene	913		N/A
22.013	69.0	Ethyl methacrylate	552		N/A
23.027	43.0+58.0+100.0	2-Hexanone	594		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	285		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	662		N/A
22.669	164.0+166.0	Tetrachloroethene	758		N/A
22.981	76.0+41.0	1,3-Dichloropropane	868		N/A
17.440	41.0	Isobutyl alcohol	415		N/A
23.543	129.0+127.0	Dibromochloromethane	652		N/A
24.038	107.0+109.0	1,2-Dibromoethane	747	84	8.523
25.749	91.0	1-Chlorohexane	703		N/A
25.374	112.0+114.0	Chlorobenzene	795	210	6.417
25.481	106.0+91.0	Ethylbenzene	757		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	660		N/A
25.823	106.0+91.0	p,m-Xylenes	920		N/A
27.024	106.0+91.0	o-Xylene	829		N/A
27.242	104.0+78.0	Styrene	888	275	1.706
27.788	171.0+173.0+175.0	Bromoform	689	40	1.503

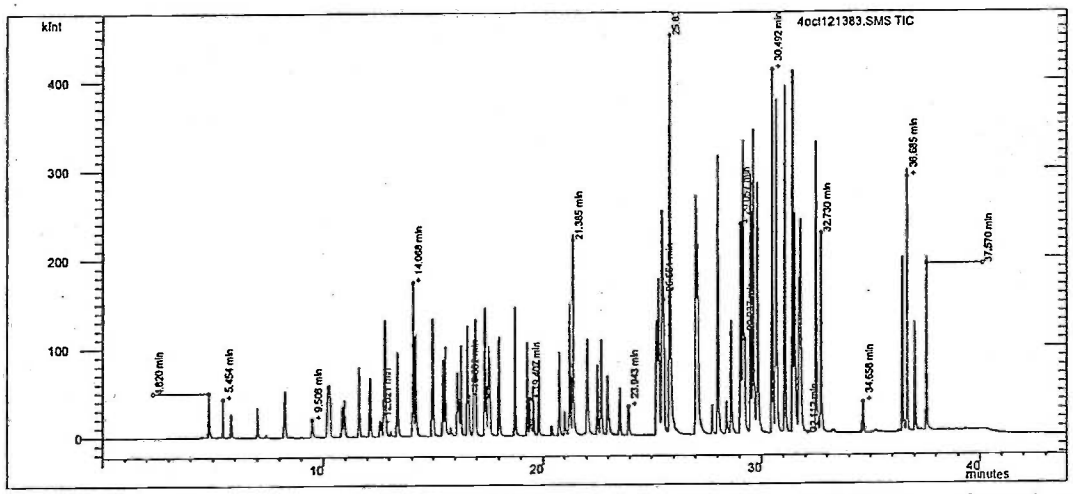
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.053	105.0+120.0	Isopropylbenzene	838	332	1.153
28.469	75.0	cis-1,4-Dichloro-2-butene	612	220	48.230
28.652	95.0	p-Bromofluorobenzene (Surr4)	998	24630	474.057
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	701		N/A
29.091	77.0+158.0	Bromobenzene	911	475	3.810
29.148	91.0+120.0	n-Propylbenzene	877		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	648		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	648		N/A
29.517	91.0+126.0	2-Chlorotoluene	816		N/A
29.671	105.0+120.0	1,3,5-Trimethylbenzene	920	2608	8.294
29.521	91.0+126.0	4-Chlorotoluene	861		N/A
30.485	119.0+91.0	tert-Butylbenzene	768		N/A
30.696	105.0+120.0	1,2,4-Trimethylbenzene	986	2242	7.446
31.431	117.0	Pentachloroethane	433		N/A
31.097	105.0+134.0	sec-Butylbenzene	936	1829	5.859
30.505	119.0	4-Isopropyltoluene	797	368	1.611
31.570	146.0+148.0	1,3-Dichlorobenzene	918	1021	6.337
31.574	146.0+148.0	1,4-Dichlorobenzene	927	976	6.029
32.112	91.0	Benzyl Chloride	678		N/A
32.527	91.0+134.0	n-Butylbenzene	971	3865	15.919
32.754	146.0+148.0	1,2-Dichlorobenzene	961	1820	11.923
34.677	75.0+157.0	1,2-Dibromo-3-chloropropane	806	268	16.228
37.578	180.0+182.0	1,2,4-Trichlorobenzene	994	10819	104.351
36.683	225.0+226.0	Hexachlorobutadiene	950		N/A
37.047	128.0	Naphthalene	997	16233	211.011
37.577	180.0+182.0	1,2,3-Trichlorobenzene	994	10350	102.899

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name:	C:\VarianWS\data\4Oct12\4oct121383.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	25ppb 524.2 ccv 1	**Acquisition Date:**	10/19/2012 3:28:56 AM
Inj. Notes:	w#12090602	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	890	189709	25.000
25.231	117.0	Chlorobenzene-d5(IS2)	995	161370	25.000
31.712	152.0	1,4-Dichlorobenzene-d4(IS3)	963	90615	25.000
4.820	85.0	Dichlorodifluoromethane	956	85179	26.081
5.454	50.0+52.0+49.0	Chloromethane	990	78525	27.274
5.821	62.0+64.0	Vinyl Chloride	998	72144	25.233 ✓
7.021	94.0+45.0	Bromomethane	936	26873	24.179
7.403	45.0+49.0	Chloroethane	762	4581	24.215
8.252	101.0+103.0	Trichlorofluoromethane	979	185663	25.895
9.508	59.0	Ethyl ether	979	17286	26.608
10.223	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	919	109129	25.665
11.202	56.0	Acrolein	550		N/A
10.301	96.0+61.0+98.0	1,1-Dichloroethene	948	139906	25.397 ✓
10.857	142.0	Iodomethane	939	102854	25.525
10.798	43.0+58.0	Acetone	900	7616	23.510
11.515	45.0	Isopropyl alcohol (2-Propanol)	750		N/A
10.968	76.0	Carbon disulfide	721	110487	24.261
13.363	41.0	Acetonitrile	795	106814	26.519
11.633	41.0+39.0	Allyl chloride	959	206722	25.672
12.131	84.0+49.0+86.0	Methylene Chloride	892	144415	23.247
12.621	59.0	tert-Butanol	952	16678	123.873
12.767	73.0	Methyl-tert-butyl-ether (MTBE)	981	87000	24.628 ✓
12.807	61.0+96.0	t-1,2-Dichloroethene	978	169041	25.611

ALAB : 00209

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.073	53.0	Acrylonitrile	990	5156	23.629
13.364	41.0	n-Hexane	997	106878	26.468
14.075	63.0	1,1-Dichloroethane	980	116738	27.057
14.298	43.0	Vinyl acetate	149		N/A
14.068	45.0	Isopropyl ether	954	171209	27.643
14.213	53.0	Chloroprene	995	121873	26.642
14.971	59.0	Ethyl-tert-butyl-ether	988	188486	26.705
15.450	77.0+41.0	2,2-Dichloropropane	998	128432	22.138
15.558	61.0+96.0	c-1,2-Dichloroethene	988	170337	27.054
15.659	43.0+72.0	2-Butanone (MEK)	778	13430	25.364
15.938	54.0	Propionitrile	845	2144	23.812
16.119	130.0+49.0	Bromochloromethane	997	98978	26.397
17.538	39.0	Methacrylonitrile	328	26469	28.070
16.279	83.0+85.0	Chloroform	995	205501	25.582 ✓
16.581	97.0+99.0	1,1,1-Trichloroethane	997	249538	25.322
16.652	111.0	Dibromofluoromethane (Surr1)	985	40319	25.800
16.874	117.0+119.0	Carbon Tetrachloride	990	203783	25.437
16.176	42.0+72.0	Tetrahydrofuran	666	7809	24.807
16.950	75.0+39.0	1,1-Dichloropropene	998	153849	24.964
17.383	78.0	Benzene	992	159274	24.700 ✓
17.425	65.0	1,2-Dichloroethane-d4 (Surr2)	976	55138	25.970
17.589	62.0+64.0	1,2-Dichloroethane	981	116558	27.988
17.540	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	181064	26.205
18.745	130.0+132.0+95.0	Trichloroethene	996	209978	25.441 ✓
19.407	41.0	Methyl methacrylate	998	35650	29.695
19.283	63.0+65.0	1,2-Dichloropropane	998	56857	26.655 ✓
19.551	93.0+174.0	Dibromomethane	992	69684	26.295
20.281	88.0	1,4-Dioxane	468		N/A
19.824	83.0+85.0	Bromodichloromethane	998	151665	25.441
20.404	63.0+43.0	2-Chloroethyl vinyl ether	692	6912	25.268
20.750	75.0+77.0+39.0	c-1,3-Dichloropropene	955	165273	26.313
21.017	43.0+58.0	4-Methyl-2-pentanone	989	47407	28.109
21.233	98.0	Toluene-d8 (Surr3)	996	215731	24.982
21.385	92.0+91.0	Toluene	998	508598	24.974 ✓
22.029	69.0	Ethyl methacrylate	989	29880	25.078
23.048	43.0+58.0+100.0	2-Hexanone	993	31215	26.193
22.057	75.0+77.0	t-1,3-Dichloropropene	983	76390	25.701
22.518	97.0+99.0	1,1,2-Trichloroethane	998	82557	26.717
22.685	164.0+166.0	Tetrachloroethene	997	23278	25.405 ✓
22.979	76.0+41.0	1,3-Dichloropropane	997	119751	26.460
17.440	41.0	Isobutyl alcohol	247		N/A
23.546	129.0+127.0	Dibromochloromethane	997	102460	26.222
23.943	107.0+109.0	1,2-Dibromoethane	998	105633	26.835
25.749	91.0	1-Chlorohexane	986		N/A
25.313	112.0+114.0	Chlorobenzene	991	327214	25.085 ✓
25.481	106.0+91.0	Ethylbenzene	996	606645	25.211 ✓
25.551	131.0+117.0	1,1,1,2-Tetrachloroethane	996	127843	26.601 ✓
25.834	106.0+91.0	p,m-Xylenes	998	1.154E6	50.198 ✓
27.029	106.0+91.0	o-Xylene	997	588039	25.274
27.105	104.0+78.0	Styrene	995	368825	26.382
27.767	171.0+173.0+175.0	Bromoform	989	59031	25.619

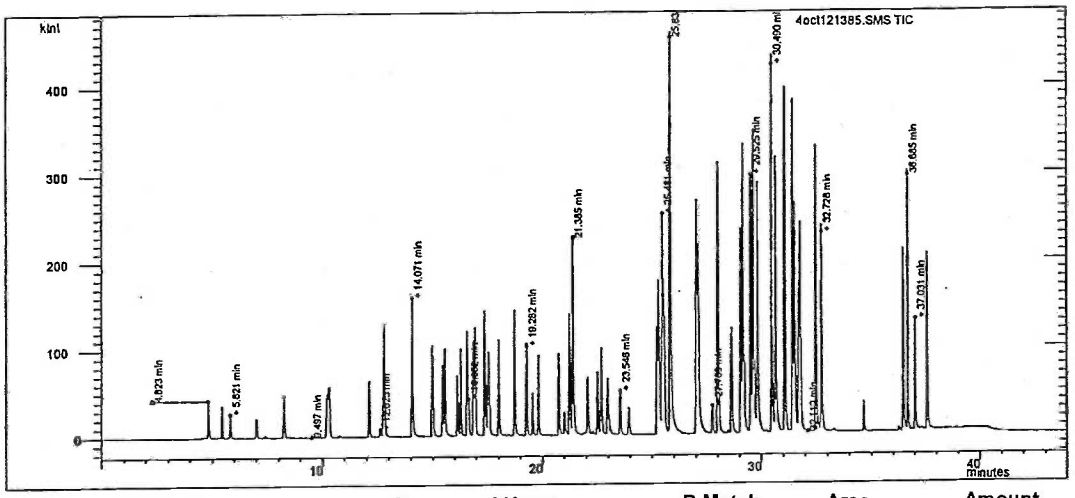
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.014	105.0+120.0	Isopropylbenzene	992	623337	25.051
28.440	75.0	cis-1,4-Dichloro-2-butene	996	9288	23.509
28.637	95.0	p-Bromofluorobenzene (Surr4)	998	113478	25.231
29.072	83.0+85.0	1,1,2,2-Tetrachloroethane	996	90432	25.562
29.057	77.0+158.0	Bromobenzene	994	286893	26.595
29.164	91.0+120.0	n-Propylbenzene	996	724472	24.973
29.237	75.0	trans-1,4-Dichloro-2-butene	990	47736	26.176
29.235	75.0+110.0	1,2,3-Trichloropropane	981	62663	25.876
29.526	91.0+126.0	2-Chlorotoluene	997	461130	24.992
29.644	105.0+120.0	1,3,5-Trimethylbenzene	997	661825	24.313
29.527	91.0+126.0	4-Chlorotoluene	995	454089	25.433
30.492	119.0+91.0	tert-Butylbenzene	866	848830	25.382
30.666	105.0+120.0	1,2,4-Trimethylbenzene	997	617999	23.705
31.431	117.0	Pentachloroethane	420	88466	25.003
31.072	105.0+134.0	sec-Butylbenzene	992	677372	25.060
30.488	119.0	4-Isopropyltoluene	878	492393	24.918
31.530	146.0+148.0	1,3-Dichlorobenzene	996	340872	24.433
31.528	146.0+148.0	1,4-Dichlorobenzene	996	344255	24.561
32.112	91.0	Benzyl Chloride	693		N/A
32.484	91.0+134.0	n-Butylbenzene	996	467775	22.256
32.730	146.0+148.0	1,2-Dichlorobenzene	996	324560	24.562
34.656	75.0+157.0	1,2-Dibromo-3-chloropropane	976	36199	25.326
37.565	180.0+182.0	1,2,4-Trichlorobenzene	989	198290	22.093
36.685	225.0+226.0	Hexachlorobutadiene	977	132506	22.241
37.029	128.0	Naphthalene	997	164753	24.739
37.570	180.0+182.0	1,2,3-Trichlorobenzene	997	192944	22.160

ALAB : 00202

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	C:\VarianWS\data\4Oct12\4oct121385.SMS	Calc Method:	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	25ppb 524.2 lcs 1	Acquisition Date:	10/19/2012 5:08:09 AM
Inj. Notes:	w#12090604	Operator Name:	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	919	181968	25.000
25.229	117.0	Chlorobenzene-d5(IS2)	986	153137	25.000
31.712	152.0	1,4-Dichlorobenzene-d4(IS3)	996	85676	25.000
4.823	85.0	Dichlorodifluoromethane	939	71635	22.867
5.457	50.0+52.0+49.0	Chloromethane	993	62803	22.741
5.821	62.0+64.0	Vinyl Chloride	998	73247	26.709
7.022	94.0+45.0	Bromomethane	982	18496	17.350
7.402	45.0+49.0	Chloroethane	754	3885	21.410
8.254	101.0+103.0	Trichlorofluoromethane	980	171121	24.882
9.497	59.0	Ethyl ether	561		N/A
10.224	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	925	96370	23.629
11.202	56.0	Acrolein	567		N/A
10.303	96.0+61.0+98.0	1,1-Dichloroethene	947	139154	26.335
10.862	142.0	Iodomethane	950	948	0.245
10.797	43.0+58.0	Acetone	903	6612	21.277
11.515	45.0	Isopropyl alcohol (2-Propanol)	654		N/A
10.957	76.0	Carbon disulfide	749		N/A
13.346	41.0	Acetonitrile	816		N/A
11.623	41.0+39.0	Allyl chloride	835		N/A
12.131	84.0+49.0+86.0	Methylene Chloride	862	136463	22.902
12.625	59.0	tert-Butanol	956	15542	120.350
12.772	73.0	Methyl-tert-butyl-ether (MTBE)	985	85537	25.244
12.806	61.0+96.0	t-1,2-Dichloroethene	983	170532	26.936

ALAB : 00203

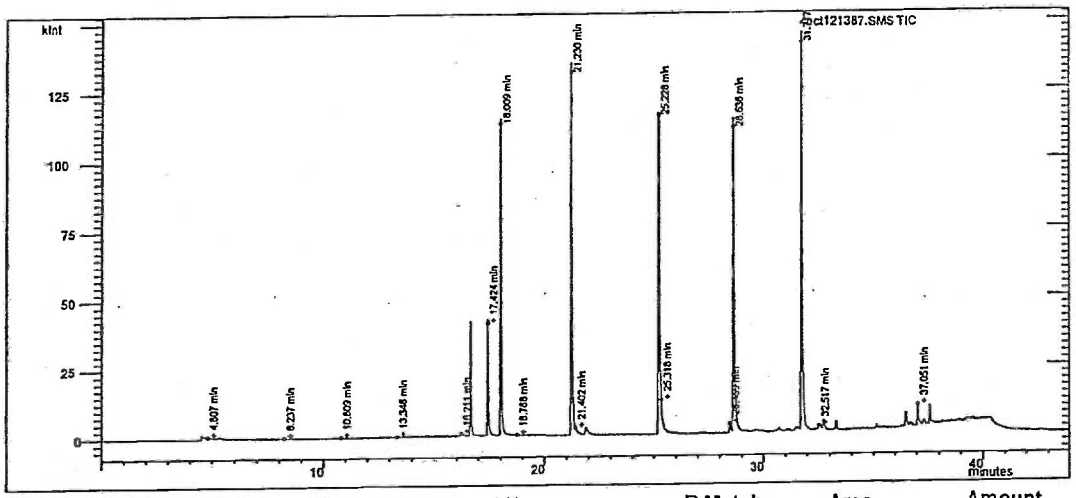
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	280		N/A
13.360	41.0	n-Hexane	697		N/A
14.075	63.0	1,1-Dichloroethane	971	105514	25.496
14.298	43.0	Vinyl acetate	518		N/A
14.071	45.0	Isopropyl ether	987	167396	28.177
14.201	53.0	Chloroprene	61		N/A
14.970	59.0	Ethyl-tert-butyl-ether	982	184938	27.317
15.450	77.0+41.0	2,2-Dichloropropane	998	122084	21.939
15.558	61.0+96.0	c-1,2-Dichloroethene	983	169098	28.000
15.663	43.0+72.0	2-Butanone (MEK)	603	10563	20.799
15.948	54.0	Propionitrile	343		N/A
16.123	130.0+49.0	Bromochloromethane	998	96114	26.724
17.541	39.0	Methacrylonitrile	329	25491	28.183
16.280	83.0+85.0	Chloroform	993	199458	25.886
16.582	97.0+99.0	1,1,1-Trichloroethane	997	245605	25.983
16.652	111.0	Dibromofluoromethane (Surr1)	987	38641	25.778
16.876	117.0+119.0	Carbon Tetrachloride	989	200305	26.067
16.262	42.0+72.0	Tetrahydrofuran	690	1354	4.484
16.950	75.0+39.0	1,1-Dichloropropene	997	154043	26.059
17.382	78.0	Benzene	990	160465	25.943
17.427	65.0	1,2-Dichloroethane-d4 (Surr2)	976	53016	26.032
17.589	62.0+64.0	1,2-Dichloroethane	991	108586	27.183
17.540	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	176971	26.702
18.744	130.0+132.0+95.0	Trichloroethene	995	211875	27.051
19.282	41.0	Methyl methacrylate	760	40371	35.436
19.283	63.0+65.0	1,2-Dichloropropane	998	55984	27.657
19.552	93.0+174.0	Dibromomethane	991	63936	25.423
20.281	88.0	1,4-Dioxane	458		N/A
19.822	83.0+85.0	Bromodichloromethane	997	159117	28.125
20.393	63.0+43.0	2-Chloroethyl vinyl ether	745		N/A
20.747	75.0+77.0+39.0	c-1,3-Dichloropropene	956	155553	26.097
21.016	43.0+58.0	4-Methyl-2-pentanone	993	43360	27.091
21.232	98.0	Toluene-d8 (Surr3)	996	211540	25.814
21.385	92.0+91.0	Toluene	998	523584	27.092
21.984	69.0	Ethyl methacrylate	859	1306	1.155
23.046	43.0+58.0+100.0	2-Hexanone	987	28091	24.839
22.057	75.0+77.0	t-1,3-Dichloropropene	992	72371	25.658
22.518	97.0+99.0	1,1,2-Trichloroethane	999	79356	27.062
22.684	164.0+166.0	Tetrachloroethene	997	21316	24.514
22.979	76.0+41.0	1,3-Dichloropropane	998	115336	26.854
17.440	41.0	Isobutyl alcohol	599		N/A
23.546	129.0+127.0	Dibromochloromethane	996	102943	27.761
23.944	107.0+109.0	1,2-Dibromoethane	998	100012	26.773
25.749	91.0	1-Chlorohexane	985		N/A
25.313	112.0+114.0	Chlorobenzene	992	324012	26.174
25.481	106.0+91.0	Ethylbenzene	995	606776	26.670
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	996	124446	27.387
25.833	106.0+91.0	p,m-Xylenes	998	1.178E6	54.206
27.029	106.0+91.0	o-Xylene	997	609899	27.725
27.104	104.0+78.0	Styrene	997	361006	27.312
27.769	171.0+173.0+175.0	Bromoform	987	56800	26.073

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.013	105.0+120.0	Isopropylbenzene	993	645157	27.423
28.418	75.0	cis-1,4-Dichloro-2-butene	718		N/A
28.634	95.0	p-Bromofluorobenzene (Surr4)	998	110737	26.041
29.072	83.0+85.0	1,1,2,2-Tetrachloroethane	996	85273	25.493
29.057	77.0+158.0	Bromobenzene	995	283346	27.780
29.163	91.0+120.0	n-Propylbenzene	995	723999	26.395
29.232	75.0	trans-1,4-Dichloro-2-butene	837	36592	21.222
29.231	75.0+110.0	1,2,3-Trichloropropane	950	50440	22.029
29.525	91.0+126.0	2-Chlorotoluene	998	488423	27.997
29.644	105.0+120.0	1,3,5-Trimethylbenzene	998	687702	26.720
29.525	91.0+126.0	4-Chlorotoluene	996	459978	27.248
30.490	119.0+91.0	tert-Butylbenzene	882	860372	27.211
30.664	105.0+120.0	1,2,4-Trimethylbenzene	997	582906	23.648
31.431	117.0	Pentachloroethane	429	79925	23.691
31.074	105.0+134.0	sec-Butylbenzene	990	678317	26.542
30.489	119.0	4-Isopropyltoluene	890	499324	26.725
31.528	146.0+148.0	1,3-Dichlorobenzene	996	345838	26.218
31.529	146.0+148.0	1,4-Dichlorobenzene	996	348131	26.270
32.112	91.0	Benzyl Chloride	661		N/A
32.482	91.0+134.0	n-Butylbenzene	996	475156	23.911
32.728	146.0+148.0	1,2-Dichlorobenzene	995	322908	25.846
34.653	75.0+157.0	1,2-Dibromo-3-chloropropane	989	34616	25.615
37.567	180.0+182.0	1,2,4-Trichlorobenzene	986	200525	23.630
36.685	225.0+226.0	Hexachlorobutadiene	975	136698	24.268
37.031	128.0	Naphthalene	997	175535	27.878
37.568	180.0+182.0	1,2,3-Trichlorobenzene	996	198656	24.132

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	C:\VarianWS\data\4Oct12\4oct121387.SMS	Calc Method:	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	method blk 1	Acquisition Date:	10/19/2012 6:48:20 AM
Inj. Notes:	w#12090702	Operator Name:	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	920	188573	25.000
25.228	117.0	Chlorobenzene-d5(IS2)	996	158103	25.000
31.717	152.0	1,4-Dichlorobenzene-d4(IS3)	966	86168	25.000
4.807	85.0	Dichlorodifluoromethane	740		N/A
5.446	50.0+52.0+49.0	Chloromethane	519		N/A
5.812	62.0+64.0	Vinyl Chloride	790		N/A
7.014	94.0+45.0	Bromomethane	674		N/A
7.411	45.0+49.0	Chloroethane	420		N/A
8.237	101.0+103.0	Trichlorofluoromethane	719		N/A
9.497	59.0	Ethyl ether	736		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	525		N/A
11.202	56.0	Acrolein	.529		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	571		N/A
10.845	142.0	Iodomethane	878		N/A
10.809	43.0+58.0	Acetone	836	346	1.075
11.515	45.0	Isopropyl alcohol (2-Propanol)	657		N/A
10.957	76.0	Carbon disulfide	548		N/A
13.346	41.0	Acetonitrile	667		N/A
11.623	41.0+39.0	Allyl chloride	702		N/A
12.124	84.0+49.0+86.0	Methylene Chloride	892	421	0.068
12.615	59.0	tert-Butanol	613		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	611		N/A
12.806	61.0+96.0	t-1,2-Dichloroethene	646	110	0.017

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	454		N/A
13.360	41.0	n-Hexane	523		N/A
14.068	63.0	1,1-Dichloroethane	636		N/A
14.298	43.0	Vinyl acetate	481		N/A
14.055	45.0	Isopropyl ether	654		N/A
14.201	53.0	Chloroprene	536		N/A
14.968	59.0	Ethyl-tert-butyl-ether	423		N/A
15.440	77.0+41.0	2,2-Dichloropropane	693		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	703		N/A
15.719	43.0+72.0	2-Butanone (MEK)	500		N/A
15.948	54.0	Propionitrile	422		N/A
16.126	130.0+49.0	Bromochloromethane	774	54	0.015
17.528	39.0	Methacrylonitrile	378		N/A
16.285	83.0+85.0	Chloroform	698	106	0.013
16.584	97.0+99.0	1,1,1-Trichloroethane	510		N/A
16.651	111.0	Dibromofluoromethane (Surr1)	986	41299	26.586
16.861	117.0+119.0	Carbon Tetrachloride	613		N/A
16.211	42.0+72.0	Tetrahydrofuran	728	662	2.115
16.949	75.0+39.0	1,1-Dichloropropene	682		N/A
17.417	78.0	Benzene	426	165	0.026
17.424	65.0	1,2-Dichloroethane-d4 (Surr2)	987	64074	30.360
17.467	62.0+64.0	1,2-Dichloroethane	334	29	0.007
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	539		N/A
18.768	130.0+132.0+95.0	Trichloroethene	793	168	0.021
19.397	41.0	Methyl methacrylate	652		N/A
19.273	63.0+65.0	1,2-Dichloropropane	761		N/A
19.543	93.0+174.0	Dibromomethane	811		N/A
20.281	88.0	1,4-Dioxane	470		N/A
19.821	83.0+85.0	Bromodichloromethane	603		N/A
20.393	63.0+43.0	2-Chloroethyl vinyl ether	771		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	676		N/A
21.126	43.0+58.0	4-Methyl-2-pentanone	512	20	0.012
21.230	98.0	Toluene-d8 (Surr3)	997	208351	24.626
21.402	92.0+91.0	Toluene	341	329	0.016
22.013	69.0	Ethyl methacrylate	516		N/A
23.027	43.0+58.0+100.0	2-Hexanone	537		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	389		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	688		N/A
22.669	164.0+166.0	Tetrachloroethene	735		N/A
23.022	76.0+41.0	1,3-Dichloropropane	670	191	0.043
17.440	41.0	Isobutyl alcohol	518		N/A
23.570	129.0+127.0	Dibromochloromethane	717	14	0.004
24.009	107.0+109.0	1,2-Dibromoethane	808	34	0.009
25.749	91.0	1-Chlorohexane	721		N/A
25.318	112.0+114.0	Chlorobenzene	306	606	0.047
25.481	106.0+91.0	Ethylbenzene	769		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	530		N/A
25.823	106.0+91.0	p,m-Xylenes	849		N/A
27.024	106.0+91.0	o-Xylene	872		N/A
27.259	104.0+78.0	Styrene	838	443	0.033
27.810	171.0+173.0+175.0	Bromoform	731	22	0.010

ALAB : 00206

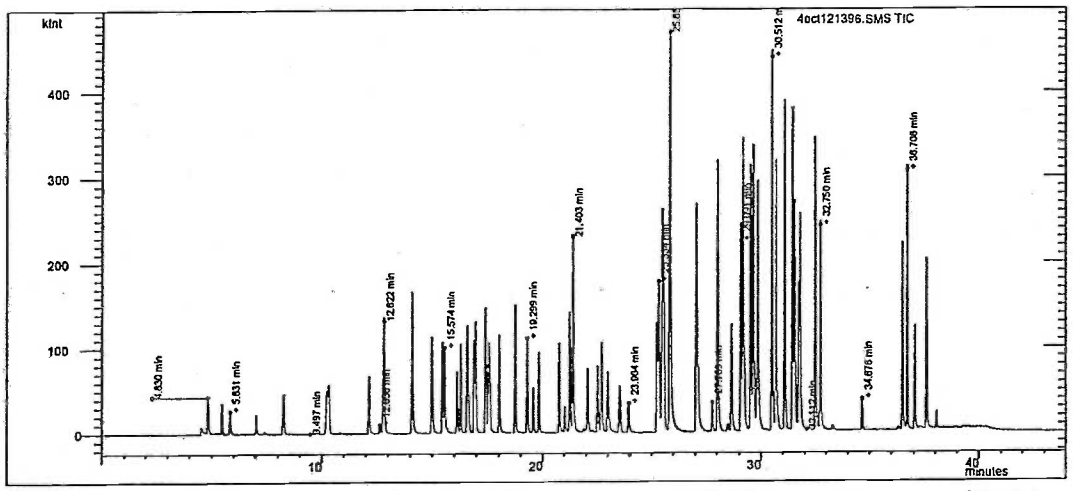
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.042	105.0+120.0	Isopropylbenzene	943	309	0.013
28.459	75.0	cis-1,4-Dichloro-2-butene	635	47	0.126
28.636	95.0	p-Bromofluorobenzene (Surr4)	998	107908	25.231
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	808		N/A
29.044	77.0+158.0	Bromobenzene	940		N/A
29.148	91.0+120.0	n-Propylbenzene	920		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	633		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	653		N/A
29.517	91.0+126.0	2-Chlorotoluene	889		N/A
29.676	105.0+120.0	1,3,5-Trimethylbenzene	888	2433	0.094
29.521	91.0+126.0	4-Chlorotoluene	882		N/A
30.485	119.0+91.0	tert-Butylbenzene	776		N/A
30.695	105.0+120.0	1,2,4-Trimethylbenzene	992	3172	0.128
31.431	117.0	Pentachloroethane	568		N/A
31.088	105.0+134.0	sec-Butylbenzene	931	1796	0.070
30.512	119.0	4-Isopropyltoluene	766	727	0.039
31.556	146.0+148.0	1,3-Dichlorobenzene	953	1319	0.099
31.557	146.0+148.0	1,4-Dichlorobenzene	941	1376	0.103
32.112	91.0	Benzyl Chloride	488		N/A
32.517	91.0+134.0	n-Butylbenzene	949	3821	0.191
32.750	146.0+148.0	1,2-Dichlorobenzene	927	1451	0.116
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	843		N/A
37.580	180.0+182.0	1,2,4-Trichlorobenzene	993	8974	1.051
36.683	225.0+226.0	Hexachlorobutadiene	937		N/A
37.051	128.0	Naphthalene	996	11273	1.780
37.580	180.0+182.0	1,2,3-Trichlorobenzene	994	8337	1.007

ALAB : 00207

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121396.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	MS_312094-002_10mL	**Acquisition Date:**	10/19/2012 2:12:19 PM
Inj. Notes:	w#12090604 pH<2	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.025	96.0+70.0	Fluorobenzene (IS1)	891	187192	25.000
25.249	117.0	Chlorobenzene-d5(IS2)	996	157062	25.000
31.733	152.0	1,4-Dichlorobenzene-d4(IS3)	995	91299	25.000
4.830	85.0	Dichlorodifluoromethane	934	72393	22.464
5.470	50.0+52.0+49.0	Chloromethane	989	62186	21.889
5.831	62.0+64.0	Vinyl Chloride	998	71953	25.505
7.032	94.0+45.0	Bromomethane	974	18316	16.702
7.420	45.0+49.0	Chloroethane	793	3491	18.702
8.267	101.0+103.0	Trichlorofluoromethane	980	168659	23.840
9.497	59.0	Ethyl ether	700		N/A
10.239	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	926	96813	23.075
11.202	56.0	Acrolein	555		N/A
10.318	96.0+61.0+98.0	1,1-Dichloroethene	946	138631	25.504
10.871	142.0	Iodomethane	933	579	0.146
10.812	43.0+58.0	Acetone	909	6413	20.062
11.515	45.0	Isopropyl alcohol (2-Propanol)	777		N/A
10.957	76.0	Carbon disulfide	645		N/A
13.346	41.0	Acetonitrile	856		N/A
11.623	41.0+39.0	Allyl chloride	851		N/A
12.147	84.0+49.0+86.0	Methylene Chloride	864	150082	24.484
12.638	59.0	tert-Butanol	977	18027	135.694
12.784	73.0	Methyl-tert-butyl-ether (MTBE)	981	93033	26.690
12.822	61.0+96.0	t-1,2-Dichloroethene	977	175646	26.969

ALAB : 00208

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	579		N/A
13.360	41.0	n-Hexane	851		N/A
14.090	63.0	1,1-Dichloroethane	976	110467	25.948
14.298	43.0	Vinyl acetate	166		N/A
14.084	45.0	Isopropyl ether	986	170774	27.944
14.201	53.0	Chloroprene	61		N/A
14.985	59.0	Ethyl-tert-butyl-ether	991	192753	27.677
15.466	77.0+41.0	2,2-Dichloropropane	998	158145	27.626
15.574	61.0+96.0	c-1,2-Dichloroethene	990	175495	28.248
15.680	43.0+72.0	2-Butanone (MEK)	884	12325	23.590
15.948	54.0	Propionitrile	521		N/A
16.136	130.0+49.0	Bromochloromethane	996	99496	26.892
17.556	39.0	Methacrylonitrile	321	24376	26.198
16.296	83.0+85.0	Chloroform	996	205604	25.939
16.598	97.0+99.0	1,1,1-Trichloroethane	997	252139	25.930
16.669	111.0	Dibromofluoromethane (Surr1)	985	38759	25.135
16.892	117.0+119.0	Carbon Tetrachloride	989	199999	25.301
16.293	42.0+72.0	Tetrahydrofuran	602	763	2.456
16.965	75.0+39.0	1,1-Dichloropropene	997	155808	25.622
17.396	78.0	Benzene	994	161779	25.426
17.443	65.0	1,2-Dichloroethane-d4 (Surr2)	976	56862	27.142
17.604	62.0+64.0	1,2-Dichloroethane	985	116454	28.339
17.555	73.0+55.0+87.0	tert-Amyl-methyl-ether	997	192806	28.280
18.760	130.0+132.0+95.0	Trichloroethene	996	207102	25.781
19.299	41.0	Methyl methacrylate	740	41350	35.389
19.298	63.0+65.0	1,2-Dichloropropane	999	57697	27.791
19.569	93.0+174.0	Dibromomethane	992	70277	27.246
20.281	88.0	1,4-Dioxane	265		N/A
19.840	83.0+85.0	Bromodichloromethane	998	167922	28.940
20.393	63.0+43.0	2-Chloroethyl vinyl ether	590		N/A
20.764	75.0+77.0+39.0	c-1,3-Dichloropropene	963	175861	28.767
21.033	43.0+58.0	4-Methyl-2-pentanone	992	48285	29.414
21.250	98.0	Toluene-d8 (Surr3)	996	216407	25.748
21.403	92.0+91.0	Toluene	998	521816	26.326
22.001	69.0	Ethyl methacrylate	755	746	0.644
23.065	43.0+58.0+100.0	2-Hexanone	990	31292	26.979
22.077	75.0+77.0	t-1,3-Dichloropropene	991	82574	28.543
22.539	97.0+99.0	1,1,2-Trichloroethane	998	82708	27.500
22.704	164.0+166.0	Tetrachloroethene	997	22584	25.323
23.000	76.0+41.0	1,3-Dichloropropane	998	125267	28.438
17.440	41.0	Isobutyl alcohol	224		N/A
23.567	129.0+127.0	Dibromochloromethane	995	108087	28.420
23.964	107.0+109.0	1,2-Dibromoethane	996	109958	28.700
25.749	91.0	1-Chlorohexane	982		N/A
25.334	112.0+114.0	Chlorobenzene	994	334984	26.385
25.503	106.0+91.0	Ethylbenzene	995	608404	25.094
25.571	131.0+117.0	1,1,1,2-Tetrachloroethane	996	125626	25.944
25.854	106.0+91.0	p,m-Xylenes	999	1.178E6	50.888
27.049	106.0+91.0	o-Xylene	997	609957	26.020
27.134	104.0+78.0	Styrene	997	119402	8.477
27.789	171.0+173.0+175.0	Bromoform	986	60386	26.011

ALAB : 00209

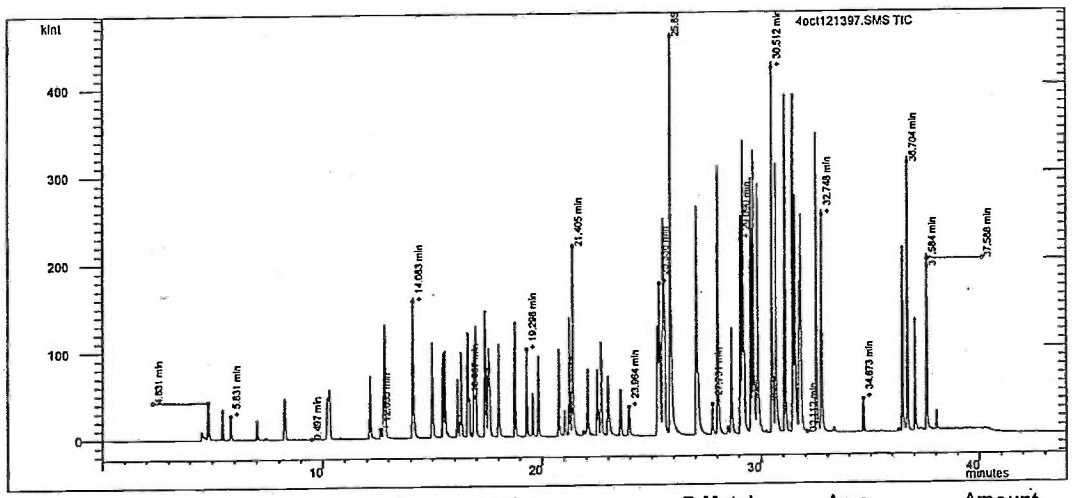
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.034	105.0+120.0	Isopropylbenzene	993	637887	25.444
28.418	75.0	cis-1,4-Dichloro-2-butene	585		N/A
28.657	95.0	p-Bromofluorobenzene (Surr4)	999	107953	23.823
29.091	83.0+85.0	1,1,2,2-Tetrachloroethane	997	95047	26.665
29.077	77.0+158.0	Bromobenzene	992	279837	25.746
29.185	91.0+120.0	n-Propylbenzene	997	729193	24.947
29.251	75.0	trans-1,4-Dichloro-2-butene	844	40250	21.905
29.252	75.0+110.0	1,2,3-Trichloropropane	984	54216	22.220
29.548	91.0+126.0	2-Chlorotoluene	997	475638	25.585
29.666	105.0+120.0	1,3,5-Trimethylbenzene	997	643379	23.458
29.548	91.0+126.0	4-Chlorotoluene	995	472991	26.293
30.512	119.0+91.0	tert-Butylbenzene	864	878040	26.059
30.687	105.0+120.0	1,2,4-Trimethylbenzene	997	560160	21.326
31.451	117.0	Pentachloroethane	436	77795	21.822
31.094	105.0+134.0	sec-Butylbenzene	992	686190	25.196
30.510	119.0	4-Isopropyltoluene	884	510880	25.660
31.551	146.0+148.0	1,3-Dichlorobenzene	996	354887	25.247
31.549	146.0+148.0	1,4-Dichlorobenzene	998	351655	24.901
32.112	91.0	Benzyl Chloride	644		N/A
32.504	91.0+134.0	n-Butylbenzene	997	486052	22.953
32.750	146.0+148.0	1,2-Dichlorobenzene	995	344835	25.901
34.676	75.0+157.0	1,2-Dibromo-3-chloropropane	976	39536	27.453
37.592	180.0+182.0	1,2,4-Trichlorobenzene	978	208023	23.003
36.708	225.0+226.0	Hexachlorobutadiene	975	140527	23.411
37.056	128.0	Naphthalene	995	158298	23.592
37.592	180.0+182.0	1,2,3-Trichlorobenzene	996	204006	23.255

ALAB : 00210

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121397.SMS	Calc Method:	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	MSD_312094-002_10mL	Acquisition Date:	10/19/2012 3:01:37 PM
Inj. Notes:	w#12090604 pH<2	Operator Name:	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.026	96.0+70.0	Fluorobenzene (IS1)	889	176612	25.000
25.254	117.0	Chlorobenzene-d5(IS2)	994	156239	25.000
31.730	152.0	1,4-Dichlorobenzene-d4(IS3)	994	91375	25.000
4.831	85.0	Dichlorodifluoromethane	883	73456	24.160
5.465	50.0+52.0+49.0	Chloromethane	993	61404	22.909
5.831	62.0+64.0	Vinyl Chloride	997	73299	27.539
7.030	94.0+45.0	Bromomethane	975	17372	16.790
7.420	45.0+49.0	Chloroethane	801	3591	20.390
8.268	101.0+103.0	Trichlorofluoromethane	980	165720	24.828
9.497	59.0	Ethyl ether	679		N/A
10.240	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	929	95815	24.205
11.202	56.0	Acrolein	567		N/A
10.319	96.0+61.0+98.0	1,1-Dichloroethene	949	134563	26.239
10.877	142.0	Iodomethane	943	416	0.111
10.813	43.0+58.0	Acetone	892	6387	21.176
11.515	45.0	Isopropyl alcohol (2-Propanol)	804		N/A
10.957	76.0	Carbon disulfide	555		N/A
13.346	41.0	Acetonitrile	827		N/A
11.623	41.0+39.0	Allyl chloride	791		N/A
12.150	84.0+49.0+86.0	Methylene Chloride	906	166923	28.863
12.633	59.0	tert-Butanol	959	17556	140.067
12.782	73.0	Methyl-tert-butyl-ether (MTBE)	988	87197	26.515
12.824	61.0+96.0	t-1,2-Dichloroethene	981	170744	27.787

ALAB : 00211

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	296		N/A
13.360	41.0	n-Hexane	791		N/A
14.091	63.0	1,1-Dichloroethane	976	104857	26.106
14.298	43.0	Vinyl acetate	643		N/A
14.083	45.0	Isopropyl ether	980	168448	29.215
14.201	53.0	Chloroprene	62		N/A
14.984	59.0	Ethyl-tert-butyl-ether	990	185386	28.214
15.466	77.0+41.0	2,2-Dichloropropane	998	149420	27.665
15.574	61.0+96.0	c-1,2-Dichloroethene	992	167340	28.549
15.683	43.0+72.0	2-Butanone (MEK)	876	11387	23.100
15.948	54.0	Propionitrile	431		N/A
16.137	130.0+49.0	Bromochloromethane	994	93490	26.783
17.554	39.0	Methacrylonitrile	333	25938	29.547
16.296	83.0+85.0	Chloroform	993	195156	26.096
16.599	97.0+99.0	1,1,1-Trichloroethane	997	243904	26.586
16.667	111.0	Dibromofluoromethane (Surr1)	991	38226	26.275
16.890	117.0+119.0	Carbon Tetrachloride	991	197442	26.473
16.294	42.0+72.0	Tetrahydrofuran	559	675	2.303
16.966	75.0+39.0	1,1-Dichloropropene	997	151862	26.469
17.399	78.0	Benzene	988	157508	26.238
17.443	65.0	1,2-Dichloroethane-d4 (Surr2)	986	55619	28.139
17.605	62.0+64.0	1,2-Dichloroethane	985	109935	28.356
17.554	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	181898	28.278
18.761	130.0+132.0+95.0	Trichloroethene	995	196768	24.623
19.298	41.0	Methyl methacrylate	718	38246	32.905
19.296	63.0+65.0	1,2-Dichloropropane	998	53572	25.940
19.567	93.0+174.0	Dibromomethane	992	67080	26.144
20.281	88.0	1,4-Dioxane	462		N/A
19.840	83.0+85.0	Bromodichloromethane	998	157543	27.294
20.393	63.0+43.0	2-Chloroethyl vinyl ether	679		N/A
20.765	75.0+77.0+39.0	c-1,3-Dichloropropene	955	167339	27.517
21.033	43.0+58.0	4-Methyl-2-pentanone	995	49664	30.414
21.251	98.0	Toluene-d8 (Surr3)	997	209956	25.112
21.405	92.0+91.0	Toluene	998	504034	25.563
22.002	69.0	Ethyl methacrylate	794	707	0.613
23.064	43.0+58.0+100.0	2-Hexanone	985	30628	26.545
22.078	75.0+77.0	t-1,3-Dichloropropene	990	76521	26.590
22.539	97.0+99.0	1,1,2-Trichloroethane	998	80598	26.940
22.704	164.0+166.0	Tetrachloroethene	998	21533	24.272
23.001	76.0+41.0	1,3-Dichloropropane	998	122077	27.860
17.440	41.0	Isobutyl alcohol	214		N/A
23.569	129.0+127.0	Dibromochloromethane	997	104552	27.635
23.964	107.0+109.0	1,2-Dibromoethane	994	107773	28.277
25.749	91.0	1-Chlorohexane	982		N/A
25.336	112.0+114.0	Chlorobenzene	992	324810	25.718
25.504	106.0+91.0	Ethylbenzene	996	600797	24.760
25.573	131.0+117.0	1,1,1,2-Tetrachloroethane	996	120886	24.944
25.855	106.0+91.0	p,m-Xylenes	998	1.153E6	49.752
27.051	106.0+91.0	o-Xylene	997	587537	25.043
27.137	104.0+78.0	Styrene	996	106059	7.523
27.791	171.0+173.0+175.0	Bromoform	986	60684	26.118

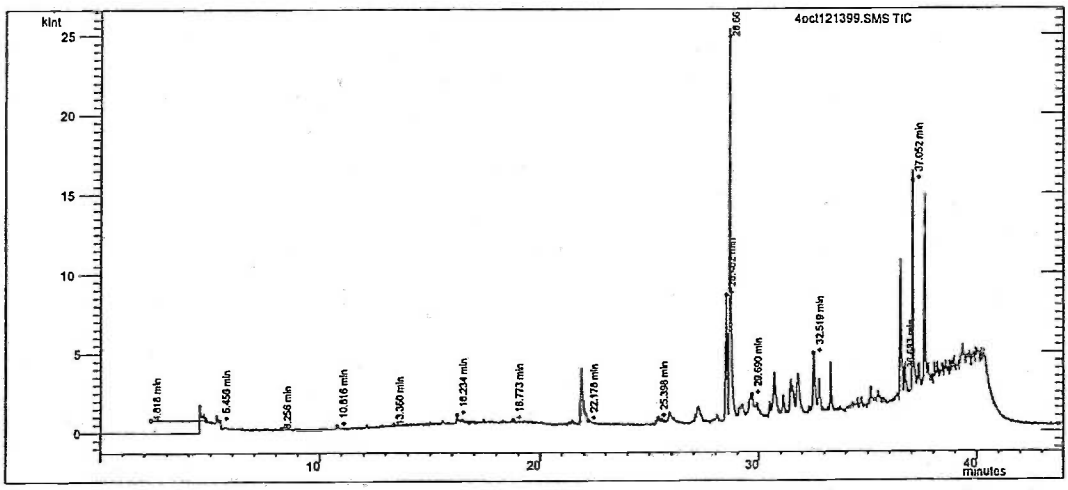
ALAB : 60212

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.034	105.0+120.0	Isopropylbenzene	993	623728	24.859
28.418	75.0	cis-1,4-Dichloro-2-butene	550		N/A
28.659	95.0	p-Bromofluorobenzene (Surr4)	999	107997	23.813
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	996	96968	27.182
29.078	77.0+158.0	Bromobenzene	991	274209	25.207
29.184	91.0+120.0	n-Propylbenzene	997	715717	24.466
29.254	75.0	trans-1,4-Dichloro-2-butene	870	38680	21.034
29.254	75.0+110.0	1,2,3-Trichloropropane	994	54650	22.379
29.548	91.0+126.0	2-Chlorotoluene	998	469575	25.238
29.666	105.0+120.0	1,3,5-Trimethylbenzene	997	639173	23.286
29.547	91.0+126.0	4-Chlorotoluene	995	454986	25.271
30.512	119.0+91.0	tert-Butylbenzene	868	852339	25.275
30.686	105.0+120.0	1,2,4-Trimethylbenzene	998	525568	19.992
31.454	117.0	Pentachloroethane	422	76603	21.470
31.092	105.0+134.0	sec-Butylbenzene	990	678422	24.890
30.509	119.0	4-Isopropyltoluene	895	499020	25.043
31.549	146.0+148.0	1,3-Dichlorobenzene	996	348687	24.786
31.550	146.0+148.0	1,4-Dichlorobenzene	997	356242	25.205
32.112	91.0	Benzyl Chloride	658		N/A
32.503	91.0+134.0	n-Butylbenzene	996	490102	23.125
32.748	146.0+148.0	1,2-Dichlorobenzene	996	343362	25.769
34.673	75.0+157.0	1,2-Dibromo-3-chloropropane	983	38538	26.738
37.584	180.0+182.0	1,2,4-Trichlorobenzene	990	203022	22.432
36.704	225.0+226.0	Hexachlorobutadiene	973	136140	22.661
37.049	128.0	Naphthalene	996	162380	24.180
37.588	180.0+182.0	1,2,3-Trichlorobenzene	996	197238	22.465

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121399.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	10ppb BFB tune 2	**Acquisition Date:**	10/19/2012 4:39:48 PM
Inj. Notes:	w#12062102	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.044	96.0+70.0	Fluorobenzene (IS1)	696	56	25.000
25.305	117.0	Chlorobenzene-d5(IS2)	918	164	25.000
31.758	152.0	1,4-Dichlorobenzene-d4(IS3)	967	798	25.000
4.818	85.0	Dichlorodifluoromethane	755		N/A
5.456	50.0+52.0+49.0	Chloromethane	434	74	86.300
5.936	62.0+64.0	Vinyl Chloride	653	16	19.023
7.014	94.0+45.0	Bromomethane	603		N/A
7.411	45.0+49.0	Chloroethane	608		N/A
8.256	101.0+103.0	Trichlorofluoromethane	797	81	38.072
9.497	59.0	Ethyl ether	603		N/A
10.208	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	634	71	56.474
11.202	56.0	Acrolein	452		N/A
10.291	96.0+61.0+98.0	1,1-Dichloroethene	744	51	30.935
10.845	142.0	Iodomethane	893		N/A
10.816	43.0+58.0	Acetone	818	576	5981.531
11.515	45.0	Isopropyl alcohol (2-Propanol)	672		N/A
10.957	76.0	Carbon disulfide	717		N/A
13.346	41.0	Acetonitrile	845		N/A
11.623	41.0+39.0	Allyl chloride	841		N/A
12.145	84.0+49.0+86.0	Methylene Chloride	854	478	258.857
12.615	59.0	tert-Butanol	569		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	699		N/A
12.823	61.0+96.0	t-1,2-Dichloroethene	788	152	77.619

ALAB : 00214

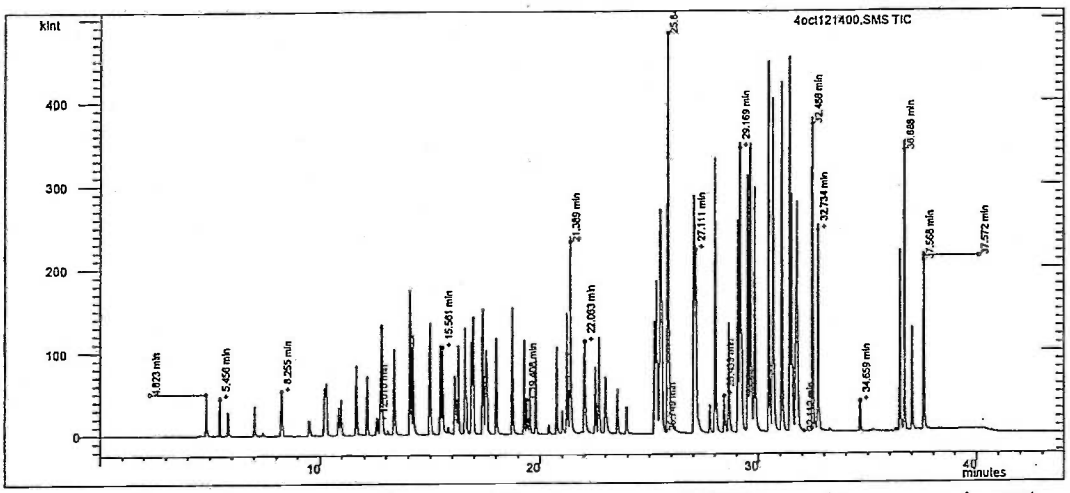
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	400		N/A
13.360	41.0	n-Hexane	644		N/A
14.068	63.0	1,1-Dichloroethane	570		N/A
14.298	43.0	Vinyl acetate	355		N/A
14.055	45.0	Isopropyl ether	573		N/A
14.201	53.0	Chloroprene	707		N/A
14.968	59.0	Ethyl-tert-butyl-ether	375		N/A
15.440	77.0+41.0	2,2-Dichloropropane	631		N/A
15.589	61.0+96.0	c-1,2-Dichloroethene	861	152	81.394
15.719	43.0+72.0	2-Butanone (MEK)	610		N/A
15.948	54.0	Propionitrile	259		N/A
16.147	130.0+49.0	Bromochloromethane	642	84	75.246
17.528	39.0	Methacrylonitrile	499		N/A
16.300	83.0+85.0	Chloroform	756	76	31.918
16.584	97.0+99.0	1,1,1-Trichloroethane	683		N/A
16.648	111.0	Dibromofluoromethane (Surr1)	466		N/A
16.861	117.0+119.0	Carbon Tetrachloride	784		N/A
16.234	42.0+72.0	Tetrahydrofuran	741	429	4585.515
16.949	75.0+39.0	1,1-Dichloropropene	837		N/A
17.378	78.0	Benzene	814		N/A
17.418	65.0	1,2-Dichloroethane-d4 (Surr2)	648		N/A
17.581	62.0+64.0	1,2-Dichloroethane	732		N/A
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	612		N/A
18.773	130.0+132.0+95.0	Trichloroethene	864	190	22.694
19.397	41.0	Methyl methacrylate	581		N/A
19.273	63.0+65.0	1,2-Dichloropropane	733		N/A
19.569	93.0+174.0	Dibromomethane	735	45	16.688
20.281	88.0	1,4-Dioxane	456		N/A
19.821	83.0+85.0	Bromodichloromethane	783		N/A
20.393	63.0+43.0	2-Chloroethyl vinyl ether	593		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	537		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	602		N/A
21.317	98.0	Toluene-d8 (Surr3)	707	95	10.867
21.369	92.0+91.0	Toluene	914		N/A
22.013	69.0	Ethyl methacrylate	338		N/A
23.027	43.0+58.0+100.0	2-Hexanone	444		N/A
22.178	75.0+77.0	t-1,3-Dichloropropene	556	58	19.213
22.504	97.0+99.0	1,1,2-Trichloroethane	627		N/A
22.669	164.0+166.0	Tetrachloroethene	744		N/A
22.981	76.0+41.0	1,3-Dichloropropane	670		N/A
17.440	41.0	Isobutyl alcohol	734		N/A
23.563	129.0+127.0	Dibromochloromethane	534	11	2.777
23.948	107.0+109.0	1,2-Dibromoethane	547		N/A
25.749	91.0	1-Chlorohexane	700		N/A
25.398	112.0+114.0	Chlorobenzene	910	483	36.478
25.481	106.0+91.0	Ethylbenzene	906		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	565		N/A
25.921	106.0+91.0	p,m-Xylenes	976	1200	5.932
27.083	106.0+91.0	o-Xylene	888	1066	5.206
27.219	104.0+78.0	Styrene	974	1957	15.900
27.815	171.0+173.0+175.0	Bromoform	809	50	2.463

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.058	105.0+120.0	Isopropylbenzene	933	1037	4.734
28.482	75.0	cis-1,4-Dichloro-2-butene	612	238	68.314
28.661	95.0	p-Bromofluorobenzene (Surr4)	998	25534	644.944
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	702		N/A
29.098	77.0+158.0	Bromobenzene	946	944	9.939
29.222	91.0+120.0	n-Propylbenzene	925	1821	7.132
29.229	75.0	trans-1,4-Dichloro-2-butene	651		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	851		N/A
29.569	91.0+126.0	2-Chlorotoluene	874	1091	6.715
29.690	105.0+120.0	1,3,5-Trimethylbenzene	927	6414	26.770
29.566	91.0+126.0	4-Chlorotoluene	874	857	5.454
30.510	119.0+91.0	tert-Butylbenzene	814	1525	5.180
30.710	105.0+120.0	1,2,4-Trimethylbenzene	983	5105	22.246
31.446	117.0	Pentachloroethane	549	421	13.527
31.101	105.0+134.0	sec-Butylbenzene	977	3305	13.890
30.513	119.0	4-Isopropyltoluene	795	1301	7.481
31.585	146.0+148.0	1,3-Dichlorobenzene	959	1764	14.364
31.584	146.0+148.0	1,4-Dichlorobenzene	967	1455	11.796
32.112	91.0	Benzyl Chloride	589		N/A
32.519	91.0+134.0	n-Butylbenzene	983	6625	35.807
32.770	146.0+148.0	1,2-Dichlorobenzene	990	3185	27.385
34.685	75.0+157.0	1,2-Dibromo-3-chloropropane	885	420	33.419
37.583	180.0+182.0	1,2,4-Trichlorobenzene	992	14888	188.436
36.683	225.0+226.0	Hexachlorobutadiene	955		N/A
37.052	128.0	Naphthalene	997	18873	321.941
37.584	180.0+182.0	1,2,3-Trichlorobenzene	996	13013	169.790

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121400.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	25ppb 524.2 ccv 2	**Acquisition Date:**	10/19/2012 5:28:45 PM
Inj. Notes:	w#12090602	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.014	96.0+70.0	Fluorobenzene (IS1)	915	189974	25.000
25.235	117.0	Chlorobenzene-d5(IS2)	994	164438	25.000
31.714	152.0	1,4-Dichlorobenzene-d4(IS3)	995	92387	25.000
4.823	85.0	Dichlorodifluoromethane	686	86798	26.540
5.456	50.0+52.0+49.0	Chloromethane	991	82145	28.492
5.824	62.0+64.0	Vinyl Chloride	998	76769	26.813 ✓
7.026	94.0+45.0	Bromomethane	960	30352	27.272
7.408	45.0+49.0	Chloroethane	737	4724	24.936
8.255	101.0+103.0	Trichlorofluoromethane	981	189511	26.395
9.511	59.0	Ethyl ether	940	16768	25.774
10.228	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	914	111703	26.234
11.202	56.0	Acrolein	603		N/A
10.308	96.0+61.0+98.0	1,1-Dichloroethene	955	150617	27.303 ✓
10.863	142.0	Iodomethane	938	102297	25.351
10.804	43.0+58.0	Acetone	909	7317	22.555
11.515	45.0	Isopropyl alcohol (2-Propanol)	761		N/A
10.974	76.0	Carbon disulfide	667	113600	24.909
13.371	41.0	Acetonitrile	714	111221	27.575
11.639	41.0+39.0	Allyl chloride	966	222796	27.629
12.136	84.0+49.0+86.0	Methylene Chloride	893	165872	26.664
12.618	59.0	tert-Butanol	941	17970	133.284
12.769	73.0	Methyl-tert-butyl-ether (MTBE)	984	88870	25.123 ✓
12.812	61.0+96.0	t-1,2-Dichloroethene	990	177726	26.889

ALAB : 00217

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.081	53.0	Acrylonitrile	986	5447	24.929
13.371	41.0	n-Hexane	998	112969	27.937
14.079	63.0	1,1-Dichloroethane	986	119615	27.685
14.298	43.0	Vinyl acetate	143		N/A
14.069	45.0	Isopropyl ether	967	173714	28.009
14.219	53.0	Chloroprene	995	123741	27.012
14.972	59.0	Ethyl-tert-butyl-ether	980	195145	27.610
15.455	77.0+41.0	2,2-Dichloropropane	995	162426	27.958
15.561	61.0+96.0	c-1,2-Dichloroethene	995	176598	28.009
15.673	43.0+72.0	2-Butanone (MEK)	601	12447	23.475
15.950	54.0	Propionitrile	881	2346	26.020
16.124	130.0+49.0	Bromochloromethane	997	99429	26.481
17.542	39.0	Methacrylonitrile	325	25686	27.201
16.282	83.0+85.0	Chloroform	997	211935	26.346 ✓
16.587	97.0+99.0	1,1,1-Trichloroethane	997	261227	26.471
16.655	111.0	Dibromofluoromethane (Surr1)	984	39810	25.439
16.880	117.0+119.0	Carbon Tetrachloride	990	212551	26.495
16.182	42.0+72.0	Tetrahydrofuran	667	7665	24.316
16.953	75.0+39.0	1,1-Dichloropropene	997	165892	26.881
17.386	78.0	Benzene	994	164507	25.476 ✓
17.430	65.0	1,2-Dichloroethane-d4 (Surr2)	979	54483	25.625
17.590	62.0+64.0	1,2-Dichloroethane	992	115289	27.645
17.540	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	184045	26.599
18.751	130.0+132.0+95.0	Trichloroethene	996	219883	26.144 ✓
19.408	41.0	Methyl methacrylate	998	35299	28.855
19.287	63.0+65.0	1,2-Dichloropropane	998	59266	27.266
19.555	93.0+174.0	Dibromomethane	994	70487	26.102
20.281	88.0	1,4-Dioxane	419		N/A
19.827	83.0+85.0	Bromodichloromethane	998	161312	26.554
20.405	63.0+43.0	2-Chloroethyl vinyl ether	523	6731	24.146
20.754	75.0+77.0+39.0	c-1,3-Dichloropropene	955	175937	27.488
21.020	43.0+58.0	4-Methyl-2-pentanone	994	46639	27.137
21.237	98.0	Toluene-d8 (Surr3)	997	222444	25.279
21.389	92.0+91.0	Toluene	998	541754	26.106 ✓
22.034	69.0	Ethyl methacrylate	994	29448	24.254
23.053	43.0+58.0+100.0	2-Hexanone	985	29703	24.460
22.063	75.0+77.0	t-1,3-Dichloropropene	978	85001	28.065
22.524	97.0+99.0	1,1,2-Trichloroethane	998	84080	26.703
22.690	164.0+166.0	Tetrachloroethene	997	24997	26.771 ✓
22.985	76.0+41.0	1,3-Dichloropropane	998	120997	26.236
17.440	41.0	Isobutyl alcohol	230		N/A
23.555	129.0+127.0	Dibromochloromethane	997	106562	26.762
23.949	107.0+109.0	1,2-Dibromoethane	997	109132	27.206
25.749	91.0	1-Chlorohexane	981		N/A
25.320	112.0+114.0	Chlorobenzene	994	337597	25.398 ✓
25.489	106.0+91.0	Ethylbenzene	995	640435	26.105 ✓
25.557	131.0+117.0	1,1,1,2-Tetrachloroethane	995	132271	26.995
25.840	106.0+91.0	p,m-Xylenes	998	1.226E6	52.322 ✓
27.036	106.0+91.0	o-Xylene	998	625448	26.367 ✓
27.111	104.0+78.0	Styrene	996	387439	27.182
27.772	171.0+173.0+175.0	Bromoform	987	59285	25.237 ✓

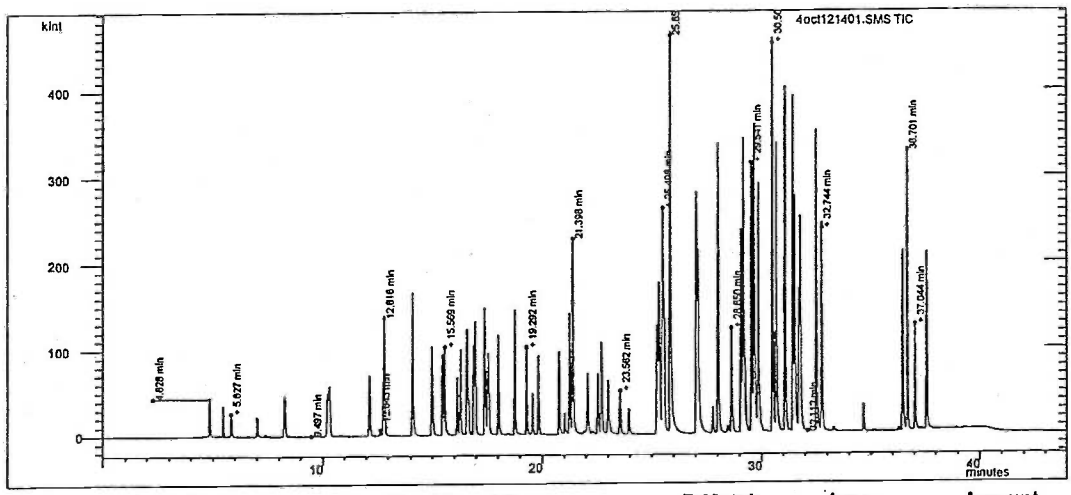
ALAB : 00218

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.021	105.0+120.0	Isopropylbenzene	993	662844	26.128
28.439	75.0	cis-1,4-Dichloro-2-butene	997	11313	28.085
28.639	95.0	p-Bromofluorobenzene (Surr4)	998	113538	24.760
29.076	83.0+85.0	1,1,2,2-Tetrachloroethane	998	92724	25.707
29.062	77.0+158.0	Bromobenzene	994	297938	27.089
29.169	91.0+120.0	n-Propylbenzene	996	783924	26.504
29.240	75.0	trans-1,4-Dichloro-2-butene	983	49514	26.630
29.240	75.0+110.0	1,2,3-Trichloropropane	975	61228	24.798
29.531	91.0+126.0	2-Chlorotoluene	997	481828	25.613
29.649	105.0+120.0	1,3,5-Trimethylbenzene	998	701968	25.293
29.532	91.0+126.0	4-Chlorotoluene	995	473822	26.029
30.497	119.0+91.0	tert-Butylbenzene	884	890407	26.115
30.670	105.0+120.0	1,2,4-Trimethylbenzene	997	662211	24.914
31.438	117.0	Pentachloroethane	449	90679	25.137
31.076	105.0+134.0	sec-Butylbenzene	990	719844	26.121
30.495	119.0	4-Isopropyltoluene	893	518187	25.720
31.534	146.0+148.0	1,3-Dichlorobenzene	997	371268	26.102
31.533	146.0+148.0	1,4-Dichlorobenzene	997	376999	26.382
32.112	91.0	Benzyl Chloride	609		N/A
32.486	91.0+134.0	n-Butylbenzene	996	546235	25.491
32.734	146.0+148.0	1,2-Dichlorobenzene	996	344032	25.536
34.659	75.0+157.0	1,2-Dibromo-3-chloropropane	982	37177	25.511
37.568	180.0+182.0	1,2,4-Trichlorobenzene	992	212345	23.205
36.688	225.0+226.0	Hexachlorobutadiene	976	151069	24.871
37.034	128.0	Naphthalene	997	160125	23.583
37.572	180.0+182.0	1,2,3-Trichlorobenzene	996	205040	23.098

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121401.SMS	Calc Method:	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	25ppb 524.2 lcs 2	Acquisition Date:	10/19/2012 6:17:54 PM
Inj. Notes:	w#12090604	Operator Name:	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.020	96.0+70.0	Fluorobenzene (IS1)	892	186692	25.000
25.245	117.0	Chlorobenzene-d5(IS2)	994	156358	25.000
31.724	152.0	1,4-Dichlorobenzene-d4(IS3)	996	87826	25.000
4.828	85.0	Dichlorodifluoromethane	760	73859	22.981
5.462	50.0+52.0+49.0	Chloromethane	995	61407	21.673
5.827	62.0+64.0	Vinyl Chloride	998	70684	25.122
7.030	94.0+45.0	Bromomethane	968	18805	17.194
7.417	45.0+49.0	Chloroethane	765	3116	16.736
8.265	101.0+103.0	Trichlorofluoromethane	980	168271	23.849
9.497	59.0	Ethyl ether	627		N/A
10.233	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	909	96551	23.074
11.202	56.0	Acrolein	675		N/A
10.313	96.0+61.0+98.0	1,1-Dichloroethene	941	132583	24.457
10.878	142.0	Iodomethane	945	1350	0.340
10.808	43.0+58.0	Acetone	929	5541	17.380
11.515	45.0	Isopropyl alcohol (2-Propanol)	771		N/A
10.957	76.0	Carbon disulfide	741		N/A
13.346	41.0	Acetonitrile	461		N/A
11.623	41.0+39.0	Allyl chloride	824		N/A
12.143	84.0+49.0+86.0	Methylene Chloride	881	158484	25.924
12.643	59.0	tert-Butanol	964	12665	95.593
12.783	73.0	Methyl-tert-butyl-ether (MTBE)	987	82092	23.615
12.816	61.0+96.0	t-1,2-Dichloroethene	982	178426	27.469

ALAB : 00220

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	596		N/A
13.360	41.0	n-Hexane	846		N/A
14.089	63.0	1,1-Dichloroethane	972	109578	25.808
14.298	43.0	Vinyl acetate	180		N/A
14.085	45.0	Isopropyl ether	985	167880	27.544
14.201	53.0	Chloroprene	61		N/A
14.985	59.0	Ethyl-tert-butyl-ether	990	179878	25.897
15.464	77.0+41.0	2,2-Dichloropropane	998	141797	24.836
15.569	61.0+96.0	c-1,2-Dichloroethene	996	173155	27.946
15.681	43.0+72.0	2-Butanone (MEK)	866	9248	17.749
15.948	54.0	Propionitrile	303		N/A
16.133	130.0+49.0	Bromochloromethane	995	91604	24.825
17.552	39.0	Methacrylonitrile	339	23598	25.430
16.293	83.0+85.0	Chloroform	997	202299	25.590
16.595	97.0+99.0	1,1,1-Trichloroethane	997	252365	26.023
16.665	111.0	Dibromofluoromethane (Surr1)	986	38544	25.063
16.888	117.0+119.0	Carbon Tetrachloride	990	202443	25.678
16.285	42.0+72.0	Tetrahydrofuran	655	848	2.736
16.962	75.0+39.0	1,1-Dichloropropene	997	156402	25.789
17.394	78.0	Benzene	992	160896	25.355
17.440	65.0	1,2-Dichloroethane-d4 (Surr2)	977	52813	25.276
17.600	62.0+64.0	1,2-Dichloroethane	976	107557	26.244
17.552	73.0+55.0+87.0	tert-Amyl-methyl-ether	997	167903	24.693
18.755	130.0+132.0+95.0	Trichloroethene	996	205839	25.739
19.292	41.0	Methyl methacrylate	762	39413	33.883
19.292	63.0+65.0	1,2-Dichloropropane	998	55968	27.080
19.565	93.0+174.0	Dibromomethane	992	63107	24.576
20.281	88.0	1,4-Dioxane	388		N/A
19.836	83.0+85.0	Bromodichloromethane	998	159085	27.541
20.393	63.0+43.0	2-Chloroethyl vinyl ether	670		N/A
20.761	75.0+77.0+39.0	c-1,3-Dichloropropene	955	161248	26.495
21.032	43.0+58.0	4-Methyl-2-pentanone	992	39615	24.241
21.245	98.0	Toluene-d8 (Surr3)	997	216179	25.836
21.398	92.0+91.0	Toluene	998	516273	26.164
21.998	69.0	Ethyl methacrylate	787	1275	1.104
23.068	43.0+58.0+100.0	2-Hexanone	984	23995	20.781
22.072	75.0+77.0	t-1,3-Dichloropropene	990	74260	25.785
22.537	97.0+99.0	1,1,2-Trichloroethane	999	74190	24.779
22.700	164.0+166.0	Tetrachloroethene	996	22069	24.857
22.998	76.0+41.0	1,3-Dichloropropane	997	112807	25.724
17.440	41.0	Isobutyl alcohol	223		N/A
23.562	129.0+127.0	Dibromochloromethane	996	101768	26.879
23.960	107.0+109.0	1,2-Dibromoethane	999	97856	25.656
25.749	91.0	1-Chlorohexane	980		N/A
25.332	112.0+114.0	Chlorobenzene	993	328370	25.980
25.498	106.0+91.0	Ethylbenzene	996	614693	26.356
25.566	131.0+117.0	1,1,1,2-Tetrachloroethane	996	123938	26.607
25.850	106.0+91.0	p,m-Xylenes	998	1.198E6	53.799
27.044	106.0+91.0	o-Xylene	998	608461	26.983
27.120	104.0+78.0	Styrene	995	373403	27.558
27.783	171.0+173.0+175.0	Bromoform	986	54952	24.607

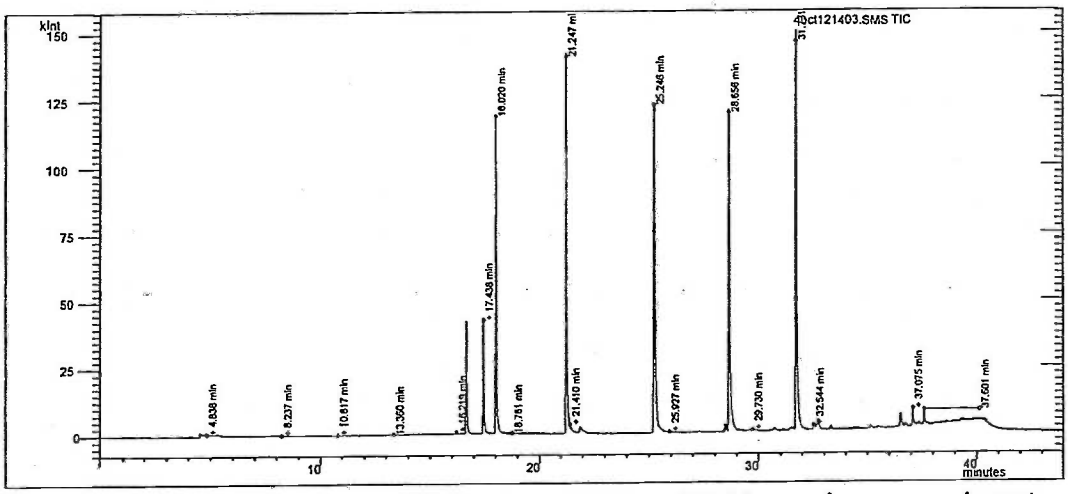
ALAB : 00221

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.027	105.0+120.0	Isopropylbenzene	992	646835	26.821
28.479	75.0	cis-1,4-Dichloro-2-butene	697	333	0.870
28.650	95.0	p-Bromofluorobenzene (Surr4)	998	108568	24.906
29.085	83.0+85.0	1,1,2,2-Tetrachloroethane	997	83056	24.223
29.072	77.0+158.0	Bromobenzene	995	271140	25.932
29.178	91.0+120.0	n-Propylbenzene	996	749522	26.657
29.247	75.0	trans-1,4-Dichloro-2-butene	843	34372	19.446
29.247	75.0+110.0	1,2,3-Trichloropropane	973	46535	19.826
29.541	91.0+126.0	2-Chlorotoluene	997	478709	26.768
29.659	105.0+120.0	1,3,5-Trimethylbenzene	997	694895	26.339
29.541	91.0+126.0	4-Chlorotoluene	995	478709	27.663
30.505	119.0+91.0	tert-Butylbenzene	877	894973	27.612
30.679	105.0+120.0	1,2,4-Trimethylbenzene	998	583457	23.091
31.448	117.0	Pentachloroethane	378	83022	24.209
31.085	105.0+134.0	sec-Butylbenzene	991	709667	27.089
30.504	119.0	4-Isopropyltoluene	887	525547	27.440
31.544	146.0+148.0	1,3-Dichlorobenzene	996	350639	25.932
31.542	146.0+148.0	1,4-Dichlorobenzene	997	357018	26.281
32.112	91.0	Benzyl Chloride	589		N/A
32.497	91.0+134.0	n-Butylbenzene	997	504065	24.744
32.744	146.0+148.0	1,2-Dichlorobenzene	997	336774	26.295
34.669	75.0+157.0	1,2-Dibromo-3-chloropropane	981	32709	23.611
37.584	180.0+182.0	1,2,4-Trichlorobenzene	988	205705	23.647
36.701	225.0+226.0	Hexachlorobutadiene	971	143645	24.877
37.044	128.0	Naphthalene	995	159678	24.739
37.585	180.0+182.0	1,2,3-Trichlorobenzene	997	201630	23.893

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121403.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	method blk 2	**Acquisition Date:**	10/19/2012 7:55:46 PM
Inj. Notes:	w#12090702	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.020	96.0+70.0	Fluorobenzene (IS1)	935	190776	25.000
25.246	117.0	Chlorobenzene-d5(IS2)	995	166143	25.000
31.731	152.0	1,4-Dichlorobenzene-d4(IS3)	959	84802	25.000
4.838	85.0	Dichlorodifluoromethane	759	47	0.014
5.467	50.0+52.0+49.0	Chloromethane	377	37	0.013
5.812	62.0+64.0	Vinyl Chloride	828		N/A
7.014	94.0+45.0	Bromomethane	565		N/A
7.411	45.0+49.0	Chloroethane	473		N/A
8.237	101.0+103.0	Trichlorofluoromethane	735		N/A
9.497	59.0	Ethyl ether	540		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	639		N/A
11.202	56.0	Acrolein	524		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	564		N/A
10.846	142.0	Iodomethane	775	21	0.005
10.817	43.0+58.0	Acetone	816	428	1.314
11.515	45.0	Isopropyl alcohol (2-Propanol)	782		N/A
10.957	76.0	Carbon disulfide	530		N/A
13.346	41.0	Acetonitrile	800		N/A
11.623	41.0+39.0	Allyl chloride	722		N/A
12.136	84.0+49.0+86.0	Methylene Chloride	830	347	0.056
12.615	59.0	tert-Butanol	706		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	699		N/A
12.825	61.0+96.0	t-1,2-Dichloroethene	673	62	0.009

ALAB : 00223

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	493		N/A
13.360	41.0	n-Hexane	783		N/A
14.068	63.0	1,1-Dichloroethane	514		N/A
14.298	43.0	Vinyl acetate	536		N/A
14.055	45.0	Isopropyl ether	630		N/A
14.201	53.0	Chloroprene	474		N/A
14.968	59.0	Ethyl-tert-butyl-ether	370		N/A
15.440	77.0+41.0	2,2-Dichloropropane	764		N/A
15.587	61.0+96.0	c-1,2-Dichloroethene	686	106	0.017
15.785	43.0+72.0	2-Butanone (MEK)	658	88	0.166
15.948	54.0	Propionitrile	263		N/A
16.123	130.0+49.0	Bromochloromethane	632		N/A
17.528	39.0	Methacrylonitrile	327		N/A
16.261	83.0+85.0	Chloroform	580		N/A
16.584	97.0+99.0	1,1,1-Trichloroethane	458		N/A
16.663	111.0	Dibromofluoromethane (Surr1)	994	42394	26.976
16.861	117.0+119.0	Carbon Tetrachloride	613		N/A
16.219	42.0+72.0	Tetrahydrofuran	797	557	1.759
16.949	75.0+39.0	1,1-Dichloropropene	639		N/A
17.421	78.0	Benzene	805	132	0.020
17.438	65.0	1,2-Dichloroethane-d4 (Surr2)	984	67014	31.387
17.581	62.0+64.0	1,2-Dichloroethane	292		N/A
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	509		N/A
18.781	130.0+132.0+95.0	Trichloroethene	861	125	0.015
19.397	41.0	Methyl methacrylate	680		N/A
19.273	63.0+65.0	1,2-Dichloropropane	488		N/A
19.543	93.0+174.0	Dibromomethane	571		N/A
20.281	88.0	1,4-Dioxane	506		N/A
19.821	83.0+85.0	Bromodichloromethane	576		N/A
20.393	63.0+43.0	2-Chloroethyl vinyl ether	642		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	611		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	513		N/A
21.247	98.0	Toluene-d8 (Surr3)	996	223263	25.112
21.410	92.0+91.0	Toluene	385	660	0.031
22.013	69.0	Ethyl methacrylate	547		N/A
23.027	43.0+58.0+100.0	2-Hexanone	625		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	187		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	704		N/A
22.669	164.0+166.0	Tetrachloroethene	607		N/A
22.981	76.0+41.0	1,3-Dichloropropane	555		N/A
17.440	41.0	Isobutyl alcohol	642		N/A
23.543	129.0+127.0	Dibromochloromethane	457		N/A
24.069	107.0+109.0	1,2-Dibromoethane	688	26	0.006
25.749	91.0	1-Chlorohexane	577		N/A
25.315	112.0+114.0	Chlorobenzene	271		N/A
25.481	106.0+91.0	Ethylbenzene	803		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	405		N/A
25.927	106.0+91.0	p,m-Xylenes	882	601	0.028
27.024	106.0+91.0	o-Xylene	777		N/A
27.294	104.0+78.0	Styrene	860	346	0.026
27.764	171.0+173.0+175.0	Bromoform	608		N/A

ALAB : 00224

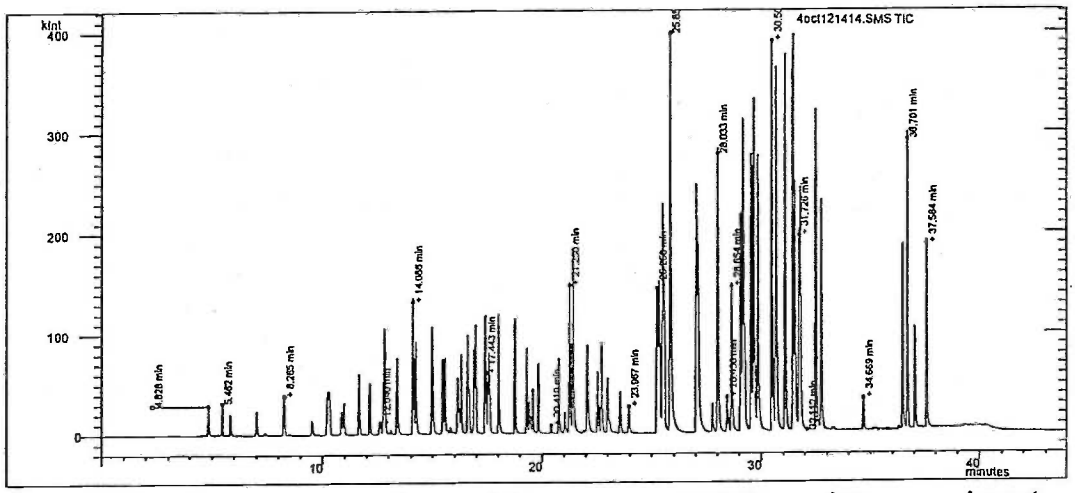
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.074	105.0+120.0	Isopropylbenzene	870	351	0.015
28.418	75.0	cis-1,4-Dichloro-2-butene	546		N/A
28.656	95.0	p-Bromofluorobenzene (Surr4)	999	114582	27.223
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	642		N/A
29.155	77.0+158.0	Bromobenzene	895	110	0.011
29.148	91.0+120.0	n-Propylbenzene	917		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	708		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	689		N/A
29.517	91.0+126.0	2-Chlorotoluene	735		N/A
29.730	105.0+120.0	1,3,5-Trimethylbenzene	941	2276	0.089
29.521	91.0+126.0	4-Chlorotoluene	734		N/A
30.485	119.0+91.0	tert-Butylbenzene	813		N/A
30.723	105.0+120.0	1,2,4-Trimethylbenzene	963	2164	0.089
31.431	117.0	Pentachloroethane	624		N/A
31.110	105.0+134.0	sec-Butylbenzene	925	1321	0.052
30.523	119.0	4-Isopropyltoluene	717	482	0.026
31.582	146.0+148.0	1,3-Dichlorobenzene	949	719	0.055
31.583	146.0+148.0	1,4-Dichlorobenzene	950	914	0.070
32.112	91.0	Benzyl Chloride	348		N/A
32.544	91.0+134.0	n-Butylbenzene	965	2218	0.113
32.768	146.0+148.0	1,2-Dichlorobenzene	954	1315	0.106
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	727		N/A
37.599	180.0+182.0	1,2,4-Trichlorobenzene	992	7880	0.938
36.683	225.0+226.0	Hexachlorobutadiene	949		N/A
37.075	128.0	Naphthalene	997	7847	1.259
37.601	180.0+182.0	1,2,3-Trichlorobenzene	992	6630	0.814

ALAB : 00225

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121414.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	20ppb 524.2 ccv 3	**Acquisition Date:**	10/20/2012 4:59:42 AM
Inj. Notes:	w#12090602	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.027	96.0+70.0	Fluorobenzene (IS1)	905	185136	25.000
25.250	117.0	Chlorobenzene-d5(IS2)	986	173435	25.000
31.726	152.0	1,4-Dichlorobenzene-d4(IS3)	991	105293	25.000
4.828	85.0	Dichlorodifluoromethane	853	50687	15.903
5.462	50.0+52.0+49.0	Chloromethane	992	54233	19.302
5.828	62.0+64.0	Vinyl Chloride	998	53178	19.059 ✓
7.029	94.0+45.0	Bromomethane	931	20918	19.286
7.414	45.0+49.0	Chloroethane	662	3238	17.538
8.265	101.0+103.0	Trichlorofluoromethane	980	137375	19.634
9.527	59.0	Ethyl ether	960	12305	19.409
10.240	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	920	82292	19.832
11.202	56.0	Acrolein	505		N/A
10.318	96.0+61.0+98.0	1,1-Dichloroethene	946	103738	19.297 ✓
10.873	142.0	Iodomethane	938	68739	17.480
10.810	43.0+58.0	Acetone	900	5438	17.202
11.515	45.0	Isopropyl alcohol (2-Propanol)	696		N/A
10.984	76.0	Carbon disulfide	717	84297	18.967
13.380	41.0	Acetonitrile	686	83735	21.303
11.651	41.0+39.0	Allyl chloride	960	162503	20.679
12.147	84.0+49.0+86.0	Methylene Chloride	882	112400	18.541
12.640	59.0	tert-Butanol	961	12813	97.522
12.784	73.0	Methyl-tert-butyl-ether (MTBE)	984	67018	19.440 ✓
12.823	61.0+96.0	t-1,2-Dichloroethene	980	133357	20.704

ALAB : 00226

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.097	53.0	Acrylonitrile	989	3784	17.771
13.380	41.0	n-Hexane	997	85473	21.690
14.091	63.0	1,1-Dichloroethane	974	90996	21.612
14.298	43.0	Vinyl acetate	168		N/A
14.086	45.0	Isopropyl ether	952	137342	22.723
14.230	53.0	Chloroprene	995	97081	21.746
14.987	59.0	Ethyl-tert-butyl-ether	985	145667	21.148
15.467	77.0+41.0	2,2-Dichloropropane	998	108897	19.234
15.573	61.0+96.0	c-1,2-Dichloroethene	988	133527	21.732
15.688	43.0+72.0	2-Butanone (MEK)	606	9507	18.398
15.961	54.0	Propionitrile	833	1551	17.647
16.137	130.0+49.0	Bromochloromethane	996	77125	21.077
17.561	39.0	Methacrylonitrile	320	18449	20.048
16.297	83.0+85.0	Chloroform	993	162258	20.698 ✓
16.599	97.0+99.0	1,1,1-Trichloroethane	997	199828	20.779
16.670	111.0	Dibromofluoromethane (Surr1)	984	39474	25.883
16.892	117.0+119.0	Carbon Tetrachloride	989	161469	20.653
16.199	42.0+72.0	Tetrahydrofuran	663	5827	18.969
16.966	75.0+39.0	1,1-Dichloropropene	997	125057	20.794
17.400	78.0	Benzene	988	129547	20.586 ✓
17.443	65.0	1,2-Dichloroethane-d4 (Surr2)	979	57707	27.851
17.608	62.0+64.0	1,2-Dichloroethane	984	86298	21.234
17.558	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	137950	20.458
18.762	130.0+132.0+95.0	Trichloroethene	996	168206	18.962 ✓
19.424	41.0	Methyl methacrylate	998	26676	20.675
19.297	63.0+65.0	1,2-Dichloropropane	998	47160	20.571 ✓
19.569	93.0+174.0	Dibromomethane	995	52491	18.429
20.281	88.0	1,4-Dioxane	398		N/A
19.840	83.0+85.0	Bromodichloromethane	998	120820	18.857
20.419	63.0+43.0	2-Chloroethyl vinyl ether	617	5366	18.250
20.766	75.0+77.0+39.0	c-1,3-Dichloropropene	973	126198	18.694
21.038	43.0+58.0	4-Methyl-2-pentanone	995	32980	18.195
21.250	98.0	Toluene-d8 (Surr3)	995	221439	23.859
21.405	92.0+91.0	Toluene	998	427336	19.524 ✓
22.050	69.0	Ethyl methacrylate	994	21609	16.874
23.076	43.0+58.0+100.0	2-Hexanone	989	20545	16.040
22.079	75.0+77.0	t-1,3-Dichloropropene	982	63339	19.828
22.538	97.0+99.0	1,1,2-Trichloroethane	999	64730	19.491
22.701	164.0+166.0	Tetrachloroethene	997	19382	19.682 ✓
23.002	76.0+41.0	1,3-Dichloropropane	998	99505	20.457
17.440	41.0	Isobutyl alcohol	236		N/A
23.568	129.0+127.0	Dibromochloromethane	996	83749	19.942
23.967	107.0+109.0	1,2-Dibromoethane	998	85410	20.188
25.749	91.0	1-Chlorohexane	983		N/A
25.338	112.0+114.0	Chlorobenzene	994	280277	19.992 ✓
25.505	106.0+91.0	Ethylbenzene	996	544184	19.462 ✓
25.570	131.0+117.0	1,1,1,2-Tetrachloroethane	996	114012	20.416
25.855	106.0+91.0	p,m-Xylenes	998	1.043E6	39.057 ✓
27.051	106.0+91.0	o-Xylene	996	547813	20.263 ✓
27.126	104.0+78.0	Styrene	996	321539	19.794
27.787	171.0+173.0+175.0	Bromoform	986	50782	18.967

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.033	105.0+120.0	Isopropylbenzene	992	566571	19.596
28.456	75.0	cis-1,4-Dichloro-2-butene	996	8733	19.024
28.654	95.0	p-Bromofluorobenzene (Surr4)	998	129179	24.718
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	994	79120	19.247
29.077	77.0+158.0	Bromobenzene	982	242183	19.320
29.182	91.0+120.0	n-Propylbenzene	996	678032	20.114
29.254	75.0	trans-1,4-Dichloro-2-butene	977	43610	20.579
29.253	75.0+110.0	1,2,3-Trichloropropane	984	55698	19.793
29.545	91.0+126.0	2-Chlorotoluene	998	420570	19.616
29.663	105.0+120.0	1,3,5-Trimethylbenzene	998	629595	19.905
29.545	91.0+126.0	4-Chlorotoluene	996	420570	20.272
30.508	119.0+91.0	tert-Butylbenzene	868	808985	20.819
30.684	105.0+120.0	1,2,4-Trimethylbenzene	997	566186	18.690
31.446	117.0	Pentachloroethane	418	84222	20.485
31.088	105.0+134.0	sec-Butylbenzene	990	647223	20.607
30.506	119.0	4-Isopropyltoluene	882	463010	20.165
31.547	146.0+148.0	1,3-Dichlorobenzene	996	319330	19.698
31.548	146.0+148.0	1,4-Dichlorobenzene	997	315776	19.389
32.112	91.0	Benzyl Chloride	511		N/A
32.500	91.0+134.0	n-Butylbenzene	996	472193	19.335
32.745	146.0+148.0	1,2-Dichlorobenzene	996	312956	20.382
34.669	75.0+157.0	1,2-Dibromo-3-chloropropane	981	32559	19.604
37.581	180.0+182.0	1,2,4-Trichlorobenzene	993	181919	17.443
36.701	225.0+226.0	Hexachlorobutadiene	971	134065	19.366
37.046	128.0	Naphthalene	996	133297	17.226
37.584	180.0+182.0	1,2,3-Trichlorobenzene	996	179099	17.703

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 4 Case No.: SAS No.: SDG No.:

Instrument ID: Continuing Cal. Sample Date: 10/19/2012 Time: 3:28

Heated Purge (Y/N): No Initial Cal. Sample Date: 10/18/2012 10/18/2012

GC Column: ID: (mm) Initial Cal. Sample Time: 10:15 22:33

Initial Calibration File: C:\VarianWS\data\4Oct12\4oct121377.SMS

Lab File ID: c:\varianws\data\4oct12\4oct121383.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Dichlorodifluoromethane	0.449	0.100	25.00	26.08	-4.3	20.0
Chloromethane	0.414	0.100	25.00	27.27	-9.1	20.0
Vinyl Chloride	0.380	0.100	25.00	25.23	-0.9	20.0
Bromomethane	0.142	0.100	25.00	24.18	3.3	20.0
Chloroethane	0.024	0.100	25.00	24.22	3.1	20.0
Trichlorofluoromethane	0.979	0.100	25.00	25.90	-3.6	20.0
Ethyl ether	0.091	0.100	25.00	26.61	-6.4	20.0
Trichlorotrifluoroethane (Freon 113)	0.575	0.100	25.00	25.67	-2.7	20.0
Acrolein	0.000	0.100	25.00	0.00	100.0	20.0
1,1-Dichloroethene	0.737	0.100	25.00	25.40	-1.6	20.0
Iodomethane	0.542	0.100	25.00	25.52	-2.1	20.0
Acetone	0.040	0.100	25.00	23.51	6.0	20.0
Isopropyl alcohol (2-Propanol)	0.000	0.100	25.00	0.00	100.0	20.0
Carbon disulfide	0.582	0.100	25.00	24.26	3.0	20.0
Acetonitrile	0.563	0.100	25.00	26.52	-6.1	20.0
Allyl chloride	1.090	0.100	25.00	25.67	-2.7	20.0
Methylene Chloride	0.761	0.100	25.00	23.25	7.0	20.0
tert-Butanol	0.018	0.100	125.00	123.87	0.9	20.0
Methyl-tert-butyl-ether (MTBE)	0.459	0.100	25.00	24.63	1.5	20.0
t-1,2-Dichloroethene	0.891	0.100	25.00	25.61	-2.4	20.0
Acrylonitrile	0.027	0.100	25.00	23.63	5.5	20.0
n-Hexane	0.563	0.100	25.00	26.47	-5.9	20.0
1,1-Dichloroethane	0.615	0.100	25.00	27.06	-8.2	20.0
Vinyl acetate	0.000	0.100	25.00	0.00	100.0	20.0
Isopropyl ether	0.902	0.100	25.00	27.64	-10.6	20.0
Chloroprene	0.642	0.100	25.00	26.64	-6.6	20.0
Ethyl-tert-butyl-ether	0.994	0.100	25.00	26.71	-6.8	20.0
2,2-Dichloropropane	0.677	0.100	25.00	22.14	11.4	20.0
c-1,2-Dichloroethene	0.898	0.100	25.00	27.05	-8.2	20.0
2-Butanone (MEK)	0.071	0.100	25.00	25.36	-1.5	20.0
Propionitrile	0.011	0.100	25.00	23.81	4.8	20.0
Bromochloromethane	0.522	0.100	25.00	26.40	-5.6	20.0
Methacrylonitrile	0.140	0.100	25.00	28.07	-12.3	20.0
Chloroform	1.083	0.100	25.00	25.58	-2.3	20.0
1,1,1-Trichloroethane	1.315	0.100	25.00	25.32	-1.3	20.0
Dibromofluoromethane (Surr1)	0.213	0.100	25.00	25.80	-3.2	20.0

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Carbon Tetrachloride	1.074	0.100	25.00	25.44	-1.7	20.0
Tetrahydrofuran	0.041	0.100	25.00	24.81	0.8	20.0
1,1-Dichloropropene	0.811	0.100	25.00	24.96	0.1	20.0
Benzene	0.840	0.100	25.00	24.70	1.2	20.0
1,2-Dichloroethane-d4 (Surr2)	0.291	0.100	25.00	25.97	-3.9	20.0
1,2-Dichloroethane	0.614	0.100	25.00	27.99	-12.0	20.0
tert-Amyl-methyl-ether	0.954	0.100	25.00	26.21	-4.8	20.0
Trichloroethene	1.301	0.100	25.00	25.44	-1.8	20.0
Methyl methacrylate	0.221	0.100	25.00	29.70	-18.8	20.0
1,2-Dichloropropane	0.352	0.100	25.00	26.66	-6.6	20.0
Dibromomethane	0.432	0.100	25.00	26.29	-5.2	20.0
1,4-Dioxane	0.000	0.100	25.00	0.00	100.0	20.0
Bromodichloromethane	0.940	0.100	25.00	25.44	-1.8	20.0
2-Chloroethyl vinyl ether	0.043	0.100	25.00	25.27	-1.1	20.0
c-1,3-Dichloropropene	1.024	0.100	25.00	26.31	-5.3	20.0
4-Methyl-2-pentanone	0.294	0.100	25.00	28.11	-12.4	20.0
Toluene-d8 (Surr3)	1.337	0.100	25.00	24.98	0.1	20.0
Toluene	3.152	0.100	25.00	24.97	0.1	20.0
Ethyl methacrylate	0.185	0.100	25.00	25.08	-0.3	20.0
2-Hexanone	0.193	0.100	25.00	26.19	-4.8	20.0
t-1,3-Dichloropropene	0.473	0.100	25.00	25.70	-2.8	20.0
1,1,2-Trichloroethane	0.512	0.100	25.00	26.72	-6.9	20.0
Tetrachloroethene	0.144	0.100	25.00	25.40	-1.6	20.0
1,3-Dichloropropane	0.742	0.100	25.00	26.46	-5.8	20.0
Isobutyl alcohol	0.000	0.100	25.00	0.00	100.0	20.0
Dibromochloromethane	0.635	0.100	25.00	26.22	-4.9	20.0
1,2-Dibromoethane	0.655	0.100	25.00	26.83	-7.3	20.0
1-Chlorohexane	0.000	0.100	25.00	0.00	100.0	20.0
Chlorobenzene	2.028	0.100	25.00	25.08	-0.3	20.0
Ethylbenzene	6.695	0.100	25.00	25.21	-0.8	20.0
1,1,1,2-Tetrachloroethane	1.411	0.100	25.00	26.60	-6.4	20.0
p,m-Xylenes	6.365	0.100	50.00	50.20	-0.4	20.0
o-Xylene	6.489	0.100	25.00	25.27	-1.1	20.0
Styrene	4.070	0.100	25.00	26.38	-5.5	20.0
Bromoform	0.651	0.100	25.00	25.62	-2.5	20.0
Isopropylbenzene	6.879	0.100	25.00	25.05	-0.2	20.0
cis-1,4-Dichloro-2-butene	0.102	0.100	25.00	23.51	6.0	20.0
p-Bromofluorobenzene (Surr4)	1.252	0.100	25.00	25.23	-0.9	20.0
1,1,2,2-Tetrachloroethane	0.998	0.100	25.00	25.56	-2.2	20.0
Bromobenzene	3.166	0.100	25.00	26.59	-6.4	20.0
n-Propylbenzene	7.995	0.100	25.00	24.97	0.1	20.0
trans-1,4-Dichloro-2-butene	0.527	0.100	25.00	26.18	-4.7	20.0
1,2,3-Trichloropropane	0.692	0.100	25.00	25.88	-3.5	20.0
2-Chlorotoluene	5.089	0.100	25.00	24.99	0.0	20.0
1,3,5-Trimethylbenzene	7.304	0.100	25.00	24.31	2.7	20.0
4-Chlorotoluene	5.011	0.100	25.00	25.43	-1.7	20.0
tert-Butylbenzene	9.367	0.100	25.00	25.38	-1.5	20.0
1,2,4-Trimethylbenzene	6.820	0.100	25.00	23.71	5.2	20.0
Pentachloroethane	0.976	0.100	25.00	25.00	0.0	20.0
sec-Butylbenzene	7.475	0.100	25.00	25.06	-0.2	20.0

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
4-Isopropyltoluene	5.434	0.100	25.00	24.92	0.3	20.0
1,3-Dichlorobenzene	3.762	0.100	25.00	24.43	2.3	20.0
1,4-Dichlorobenzene	3.799	0.100	25.00	24.56	1.8	20.0
Benzyl Chloride	0.000	0.100	25.00	0.00	100.0	20.0
n-Butylbenzene	5.162	0.100	25.00	22.26	11.0	20.0
1,2-Dichlorobenzene	3.582	0.100	25.00	24.56	1.8	20.0
1,2-Dibromo-3-chloropropane	0.399	0.100	25.00	25.33	-1.3	20.0
1,2,4-Trichlorobenzene	2.188	0.100	25.00	22.09	11.6	20.0
Hexachlorobutadiene	1.462	0.100	25.00	22.24	11.0	20.0
Naphthalene	1.818	0.100	25.00	24.74	1.0	20.0
1,2,3-Trichlorobenzene	2.129	0.100	25.00	22.16	11.4	20.0

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: #4 Case No.: SAS No.: SDG No.:

Instrument ID: Continuing Cal. Sample Date: 10/19/2012 Time: 17:28

Heated Purge (Y/N): No Initial Cal. Sample Date: 10/18/2012 10/18/2012

GC Column: ID: (mm) Initial Cal. Sample Time: 10:15 22:33

Initial Calibration File: C:\VarianWS\data\4Oct12\4oct121377.SMS

Lab File ID: c:\varianws\data\4oct12\4oct121400.SMS

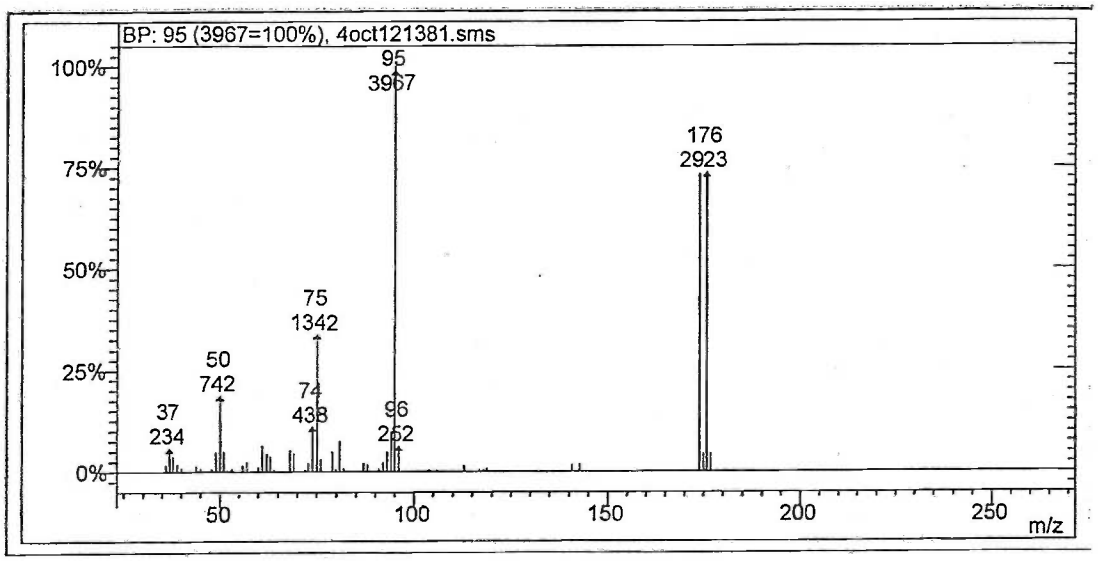
RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Dichlorodifluoromethane	0.457	0.100	25.00	26.54	-6.2	20.0
Chloromethane	0.432	0.100	25.00	28.49	-14.0	20.0
Vinyl Chloride	0.404	0.100	25.00	26.81	-7.3	20.0
Bromomethane	0.160	0.100	25.00	27.27	-9.1	20.0
Chloroethane	0.025	0.100	25.00	24.94	0.3	20.0
Trichlorofluoromethane	0.998	0.100	25.00	26.39	-5.6	20.0
Ethyl ether	0.088	0.100	25.00	25.77	-3.1	20.0
Trichlorotrifluoroethane (Freon 113)	0.588	0.100	25.00	26.23	-4.9	20.0
Acrolein	0.000	0.100	25.00	0.00	100.0	20.0
1,1-Dichloroethene	0.793	0.100	25.00	27.30	-9.2	20.0
Iodomethane	0.538	0.100	25.00	25.35	-1.4	20.0
Acetone	0.039	0.100	25.00	22.56	9.8	20.0
Isopropyl alcohol (2-Propanol)	0.000	0.100	25.00	0.00	100.0	20.0
Carbon disulfide	0.598	0.100	25.00	24.91	0.4	20.0
Acetonitrile	0.585	0.100	25.00	27.57	-10.3	20.0
Allyl chloride	1.173	0.100	25.00	27.63	-10.5	20.0
Methylene Chloride	0.873	0.100	25.00	26.66	-6.7	20.0
tert-Butanol	0.019	0.100	125.00	133.28	-6.6	20.0
Methyl-tert-butyl-ether (MTBE)	0.468	0.100	25.00	25.12	-0.5	20.0
t-1,2-Dichloroethene	0.936	0.100	25.00	26.89	-7.6	20.0
Acrylonitrile	0.029	0.100	25.00	24.93	0.3	20.0
n-Hexane	0.595	0.100	25.00	27.94	-11.7	20.0
1,1-Dichloroethane	0.630	0.100	25.00	27.68	-10.7	20.0
Vinyl acetate	0.000	0.100	25.00	0.00	100.0	20.0
Isopropyl ether	0.914	0.100	25.00	28.01	-12.0	20.0
Chloroprene	0.651	0.100	25.00	27.01	-8.0	20.0
Ethyl-tert-butyl-ether	1.027	0.100	25.00	27.61	-10.4	20.0
2,2-Dichloropropane	0.855	0.100	25.00	27.96	-11.8	20.0
c-1,2-Dichloroethene	0.930	0.100	25.00	28.01	-12.0	20.0
2-Butanone (MEK)	0.066	0.100	25.00	23.48	6.1	20.0
Propionitrile	0.012	0.100	25.00	26.02	-4.1	20.0
Bromochloromethane	0.523	0.100	25.00	26.48	-5.9	20.0
Methacrylonitrile	0.135	0.100	25.00	27.20	-8.8	20.0
Chloroform	1.116	0.100	25.00	26.35	-5.4	20.0
1,1,1-Trichloroethane	1.375	0.100	25.00	26.47	-5.9	20.0
Dibromofluoromethane (Surr1)	0.210	0.100	25.00	25.44	-1.8	20.0

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Carbon Tetrachloride	1.119	0.100	25.00	26.49	-6.0	20.0
Tetrahydrofuran	0.040	0.100	25.00	24.32	2.7	20.0
1,1-Dichloropropene	0.873	0.100	25.00	26.88	-7.5	20.0
Benzene	0.866	0.100	25.00	25.48	-1.9	20.0
1,2-Dichloroethane-d4 (Surr2)	0.287	0.100	25.00	25.63	-2.5	20.0
1,2-Dichloroethane	0.607	0.100	25.00	27.65	-10.6	20.0
tert-Amyl-methyl-ether	0.969	0.100	25.00	26.60	-6.4	20.0
Trichloroethene	1.337	0.100	25.00	26.14	-4.6	20.0
Methyl methacrylate	0.215	0.100	25.00	28.86	-15.4	20.0
1,2-Dichloropropane	0.360	0.100	25.00	27.27	-9.1	20.0
Dibromomethane	0.429	0.100	25.00	26.10	-4.4	20.0
1,4-Dioxane	0.000	0.100	25.00	0.00	100.0	20.0
Bromodichloromethane	0.981	0.100	25.00	26.55	-6.2	20.0
2-Chloroethyl vinyl ether	0.041	0.100	25.00	24.15	3.4	20.0
c-1,3-Dichloropropene	1.070	0.100	25.00	27.49	-10.0	20.0
4-Methyl-2-pentanone	0.284	0.100	25.00	27.14	-8.5	20.0
Toluene-d8 (Surr3)	1.353	0.100	25.00	25.28	-1.1	20.0
Toluene	3.295	0.100	25.00	26.11	-4.4	20.0
Ethyl methacrylate	0.179	0.100	25.00	24.25	3.0	20.0
2-Hexanone	0.181	0.100	25.00	24.46	2.2	20.0
t-1,3-Dichloropropene	0.517	0.100	25.00	28.06	-12.3	20.0
1,1,2-Trichloroethane	0.511	0.100	25.00	26.70	-6.8	20.0
Tetrachloroethene	0.152	0.100	25.00	26.77	-7.1	20.0
1,3-Dichloropropane	0.736	0.100	25.00	26.24	-4.9	20.0
Isobutyl alcohol	0.000	0.100	25.00	0.00	100.0	20.0
Dibromochloromethane	0.648	0.100	25.00	26.76	-7.0	20.0
1,2-Dibromoethane	0.664	0.100	25.00	27.21	-8.8	20.0
1-Chlorohexane	0.000	0.100	25.00	0.00	100.0	20.0
Chlorobenzene	2.053	0.100	25.00	25.40	-1.6	20.0
Ethylbenzene	6.932	0.100	25.00	26.10	-4.4	20.0
1,1,1,2-Tetrachloroethane	1.432	0.100	25.00	26.99	-8.0	20.0
p,m-Xylenes	6.634	0.100	50.00	52.32	-4.6	20.0
o-Xylene	6.770	0.100	25.00	26.37	-5.5	20.0
Styrene	4.194	0.100	25.00	27.18	-8.7	20.0
Bromoform	0.642	0.100	25.00	25.24	-0.9	20.0
Isopropylbenzene	7.175	0.100	25.00	26.13	-4.5	20.0
cis-1,4-Dichloro-2-butene	0.122	0.100	25.00	28.09	-12.3	20.0
p-Bromofluorobenzene (Surr4)	1.229	0.100	25.00	24.76	1.0	20.0
1,1,2,2-Tetrachloroethane	1.004	0.100	25.00	25.71	-2.8	20.0
Bromobenzene	3.225	0.100	25.00	27.09	-8.4	20.0
n-Propylbenzene	8.485	0.100	25.00	26.50	-6.0	20.0
trans-1,4-Dichloro-2-butene	0.536	0.100	25.00	26.63	-6.5	20.0
1,2,3-Trichloropropane	0.663	0.100	25.00	24.80	0.8	20.0
2-Chlorotoluene	5.215	0.100	25.00	25.61	-2.5	20.0
1,3,5-Trimethylbenzene	7.598	0.100	25.00	25.29	-1.2	20.0
4-Chlorotoluene	5.129	0.100	25.00	26.03	-4.1	20.0
tert-Butylbenzene	9.638	0.100	25.00	26.12	-4.5	20.0
1,2,4-Trimethylbenzene	7.168	0.100	25.00	24.91	0.3	20.0
Pentachloroethane	0.982	0.100	25.00	25.14	-0.5	20.0
sec-Butylbenzene	7.792	0.100	25.00	26.12	-4.5	20.0

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
4-Isopropyltoluene	5.609	0.100	25.00	25.72	-2.9	20.0
1,3-Dichlorobenzene	4.019	0.100	25.00	26.10	-4.4	20.0
1,4-Dichlorobenzene	4.081	0.100	25.00	26.38	-5.5	20.0
Benzyl Chloride	0.000	0.100	25.00	0.00	100.0	20.0
n-Butylbenzene	5.912	0.100	25.00	25.49	-2.0	20.0
1,2-Dichlorobenzene	3.724	0.100	25.00	25.54	-2.1	20.0
1,2-Dibromo-3-chloropropane	0.402	0.100	25.00	25.51	-2.0	20.0
1,2,4-Trichlorobenzene	2.298	0.100	25.00	23.20	7.2	20.0
Hexachlorobutadiene	1.635	0.100	25.00	24.87	0.5	20.0
Naphthalene	1.733	0.100	25.00	23.58	5.7	20.0
1,2,3-Trichlorobenzene	2.219	0.100	25.00	23.10	7.6	20.0

BFB 8260B Report



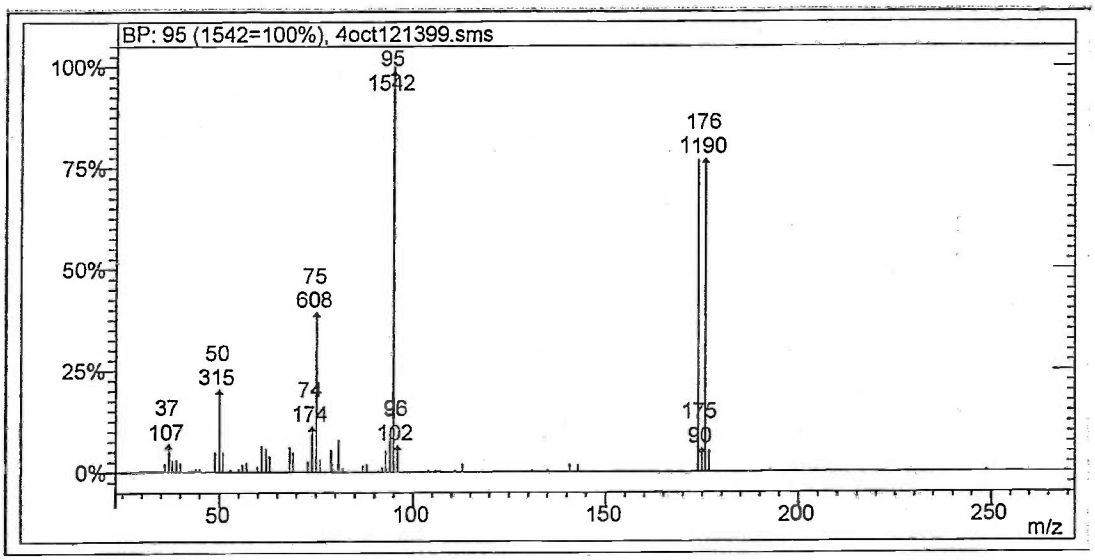
Lab File ID: 4oct121381.sms

Injection Date: 10/19/2012

Injection Time: 1:51

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	18.70	PASS
75	30-60% of m/z 95	33.83	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.35	PASS
173	<2% of m/z 174	0.24	PASS
174	>50% of m/z 95	73.08	PASS
175	5-9% of m/z 174	6.07	PASS
176	>95% but <101% of m/z 174	100.83	PASS
177	5-9% of m/z 176	5.92	PASS

BFB 8260B Report



Lab File ID: 4oct121399.sms

Injection Date: 10/19/2012

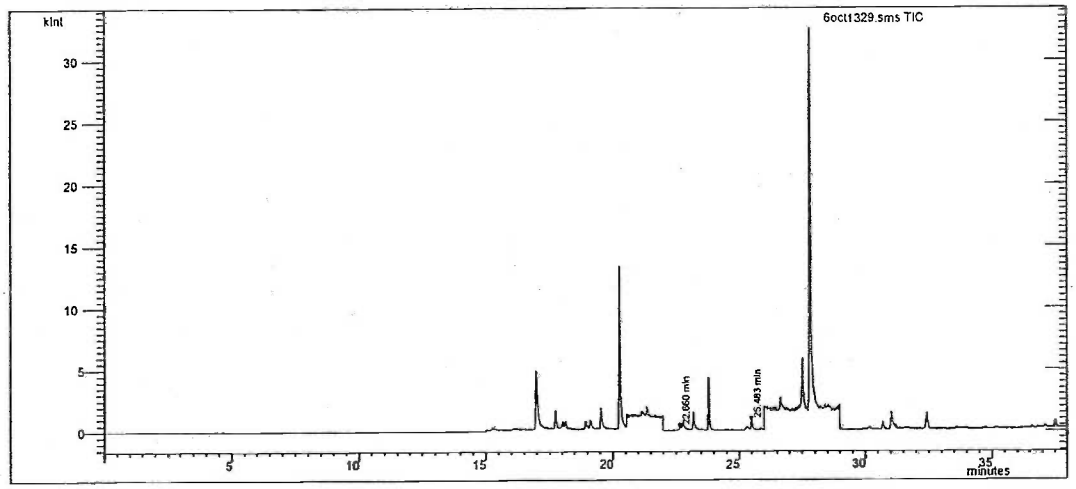
Injection Time: 16:39

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	20.43	PASS
75	30-60% of m/z 95	39.43	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.61	PASS
173	<2% of m/z 174	0.25	PASS
174	>50% of m/z 95	76.78	PASS
175	5-9% of m/z 174	7.60	PASS
176	>95% but <101% of m/z 174	100.51	PASS
177	5-9% of m/z 176	6.72	PASS

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1329.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	312205-006-6 5ml	**Acquisition Date:**	10/29/2012 6:17:58 PM
Inj. Notes:	pH<2	**Operator Name:**	RyanP

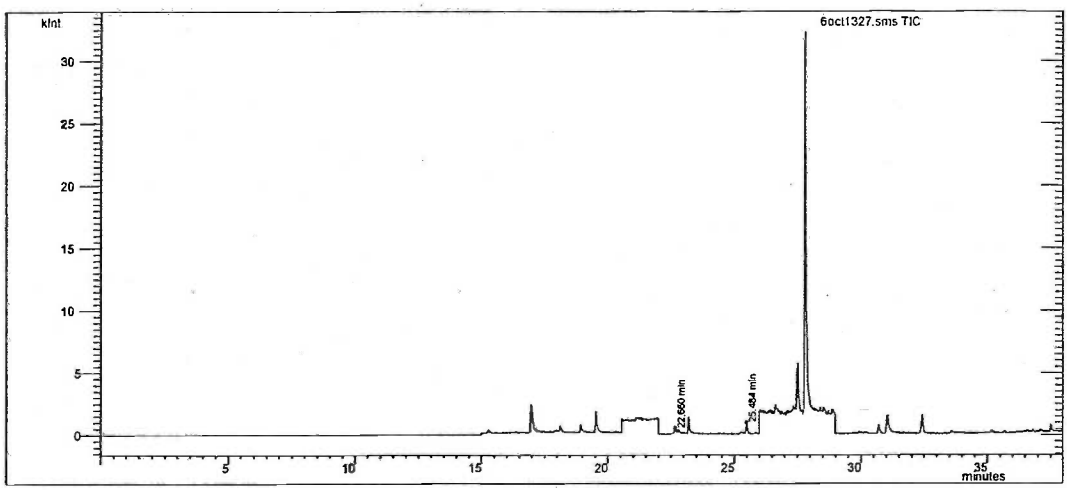


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.483	117.0+82.0	Chlorobenzene-d5(IS2)	999	2451	1.000
22.660	98.0+70.0	Toluene-d8 (Surr 3)	997	1003	1.073

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1327.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	312205-007-6 5ml	**Acquisition Date:**	10/29/2012 4:23:36 PM
Inj. Notes:	EB pH<2	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.484	117.0+82.0	Chlorobenzene-d5(IS2)	999	2450	1.000
22.660	98.0+70.0	Toluene-d8 (Surr 3)	998	1004	1.075

ALAB : 88238

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130967

Created Date	10/30/2012
Created By:	akk
Matrix:	Water

Test:	8260M MS/MS
Method:	EPA 8260M
Instrument:	VOA-MS (group)
AnalysisDate:	10/30/2012
AnalysisEmployee:	akk

Seq #	Sample ID	Customer Sample ID	QC Source	Sur Added	Spk Added	Init Wt/Vol	Final Vol	Extraction Date	Extraction Time	Comments
0	LCS_1									
1	LCSD_1									
2	Method Blank_1									
3	312080-013	B-1-CW12	312080-013							
4	312159-006	EB101512 Equip Blank	312159-006							
5	312205-006	B-6-CW16	312205-006							
6	312205-007	EB101612 Equip Blank	312205-007							

InitialCalibSTD:	
CalibCheckSTD:	
InternalSTD:	w#12101901
SurrogateSTD:	w#12101901
LCSSTD:	
MSSTD:	

Solvent Manufacturer and Lot:	
Sand Manufacturer and Lot:	
Na2SO4 Manufacturer and Lot:	
Surrogate Lot:	
Spike Lot:	
Prep By Signature:	

ALAB: 062313

****

Varian Star Workstation - RecalcList Tue Oct 30 08:40:43 2012

RecalcList: C:\VarianWS\8260LIST.RCL

Created: Thu Sep 10 08:16:26 2009
Modified: Tue Oct 30 08:40:39 2012

****

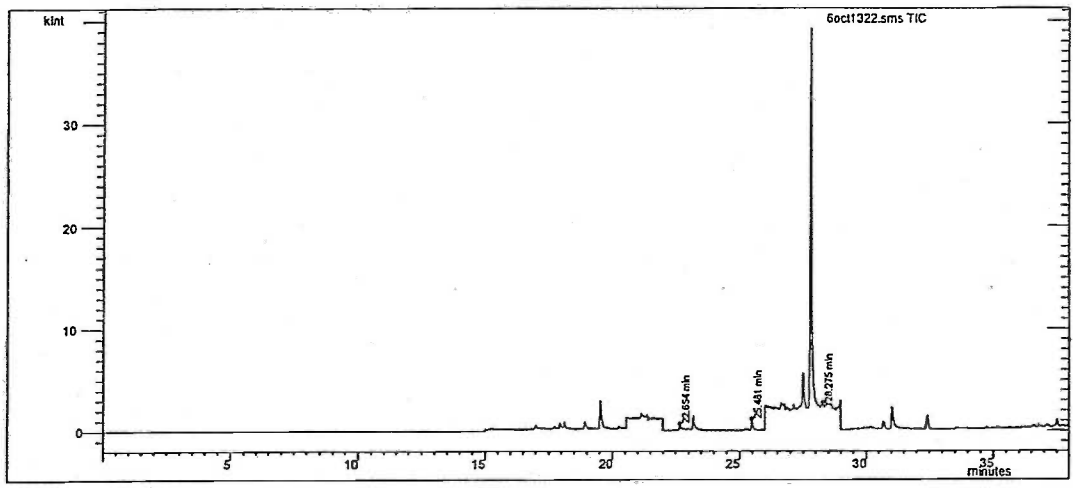
Line	Sample Name	Data File	Recalc Notes
1	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1322.SMS	none
2	0.02ppb tcp lcs	c:\varianws\data\6oct12\6Oct1323.SMS	none
3	0.02ppb tcp lcsd	c:\varianws\data\6oct12\6Oct1324.SMS	none
4	method blank	c:\varianws\data\6oct12\6Oct1325.SMS	none
5	312159-006-8 5ml	c:\varianws\data\6oct12\6Oct1326.SMS	below
	Notes pH<2		
6	312205-007-6 5ml	c:\varianws\data\6oct12\6Oct1327.SMS	below
	Notes pH<2		
7	312080-013-13 5ml	c:\varianws\data\6oct12\6Oct1328.SMS	below
	Notes pH<2		
8	312205-006-6 5ml	c:\varianws\data\6oct12\6Oct1329.SMS	below
	Notes pH<2		

ALAB : 60240

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1322.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp ccv	**Acquisition Date:**	10/29/2012 10:24:42 AM
Inj. Notes:	w#12100901	**Operator Name:**	RyanP



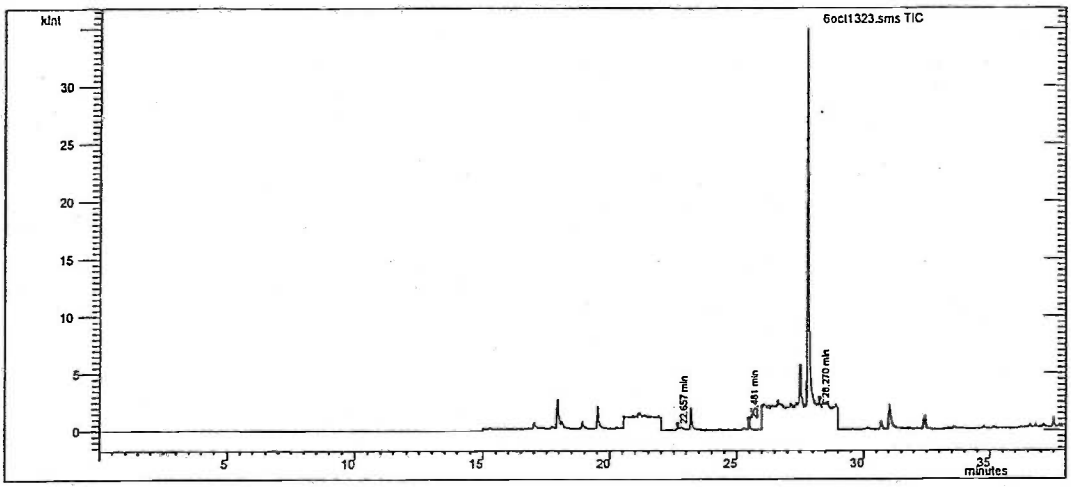
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.481	117.0+82.0	Chlorobenzene-d5(IS2)	999	2916	1.000
28.275	75.0	1,2,3 - TCP	1000	2481	0.016
22.654	98.0+70.0	Toluene-d8 (Surr 3)	971	1428	1.284

ALAB : 00241

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1323.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp lcs	**Acquisition Date:**	10/29/2012 11:27:19 AM
Inj. Notes:	w#12100902	**Operator Name:**	RyanP



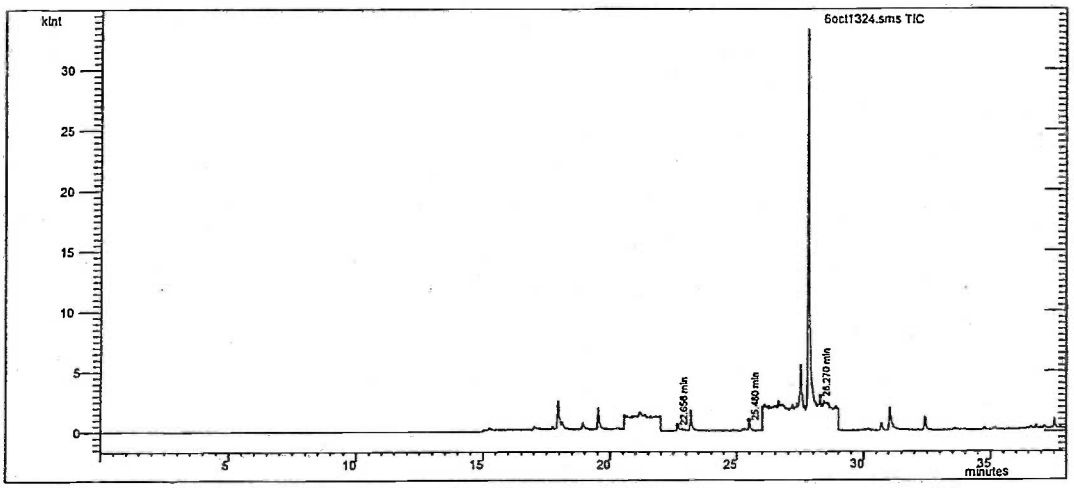
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.481	117.0+82.0	Chlorobenzene-d5(IS2)	999	2377	1.000
28.270	75.0	1,2,3 - TCP	1000	2167	0.017
22.657	98.0+70.0	Toluene-d8 (Surr 3)	972	1154	1.273

ALAB : 66242

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1324.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp lcsd	**Acquisition Date:**	10/29/2012 12:28:42 PM
Inj. Notes:	w#12100902	**Operator Name:**	RyanP



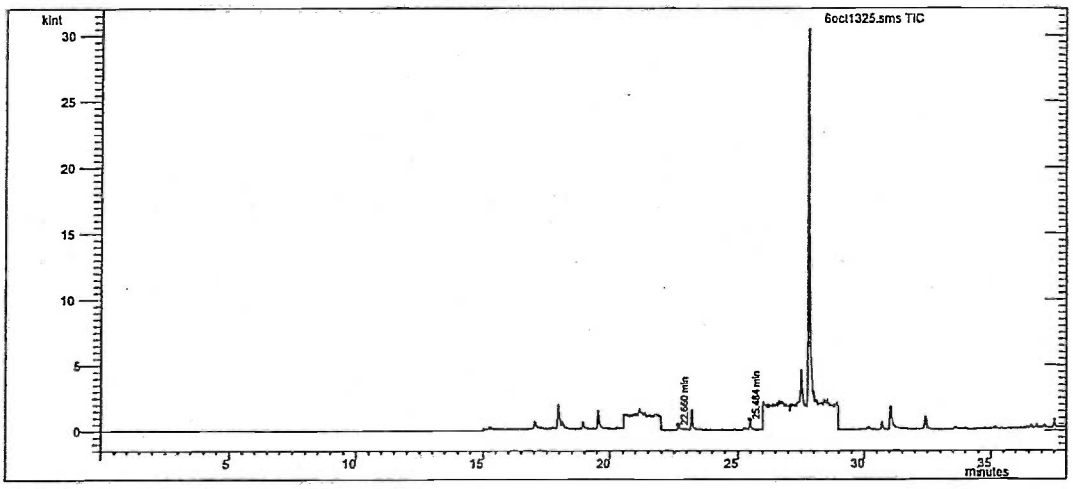
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.480	117.0+82.0	Chlorobenzene-d5(IS2)	998	2385	1.000
28.270	75.0	1,2,3 - TCP	1000	2473	0.019
22.656	98.0+70.0	Toluene-d8 (Surr 3)	996	944	1.039

ALAB : 00243

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1325.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	method blank	**Acquisition Date:**	10/29/2012 1:31:47 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.484	117.0+82.0	Chlorobenzene-d5(IS2)	998	2077	1.000
22.660	98.0+70.0	Toluene-d8 (Surr 3)	970	829	1.047

ALAB : 00244

****

Varian Star Workstation - RecalcList Tue Oct 23 08:54:41 2012

RecalcList: C:\Documents and Settings\ragtimerye\Desktop\temp recalc.rcl

Created: Tue Sep 11 16:52:55 2012
Modified: Tue Oct 23 08:34:46 2012

****

TCP-Q-102212

Line	Sample Name	Data File	Recalc Notes
1	rinse	c:\varianws\data\6oct12\6Oct1263.SMS	none
2	0.005ppb tcp ic	c:\varianws\data\6oct12\6Oct1264.SMS	none
3	0.01ppb tcp ic	c:\varianws\data\6oct12\6Oct1265.SMS	none
4	0.02ppb tcp ic	c:\varianws\data\6oct12\6Oct1266.SMS	none
5	0.05ppb tcp ic	c:\varianws\data\6oct12\6Oct1267.SMS	none
6	0.1ppb tcp ic	c:\varianws\data\6oct12\6Oct1268.SMS	none
7	rinse	c:\varianws\data\6oct12\6Oct1269.SMS	none
8	rinse	c:\varianws\data\6oct12\6Oct1270.SMS	none
9	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1271.SMS	none

ALAB:00245

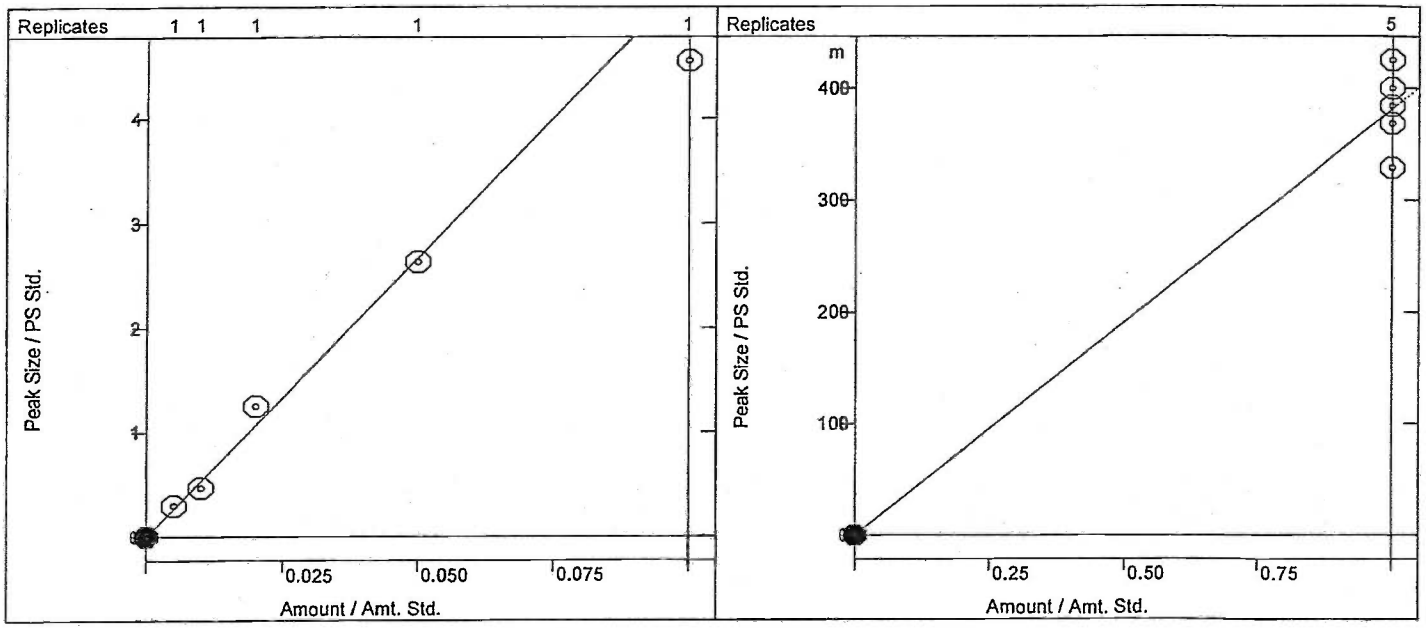
Print Date: 23 Oct 2012 09:45:38

Calibration Curves Report

Method:	c:\varianws\methods\tcp-q_102212.mth		
Recalc Method:	...p-q_102212.mth	Last Calibration:	10/23/2012 9:40 AM
Sample List:	N/A	Cmpd. Table Updated:	10/23/2012 9:42 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,2,3 - TCP
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 14.10%, Coeff. Det.(r2): 0.990412
y = +53.3889x

Toluene-d8 (Surr 3)
Curve Fit: Linear, Origin: Include (Ignore), Weight: 1/nX2
Resp. Fact. RSD: 9.450%, Coeff. Det.(r2): 0.958893
y = +0.3813x +1.1102e-16

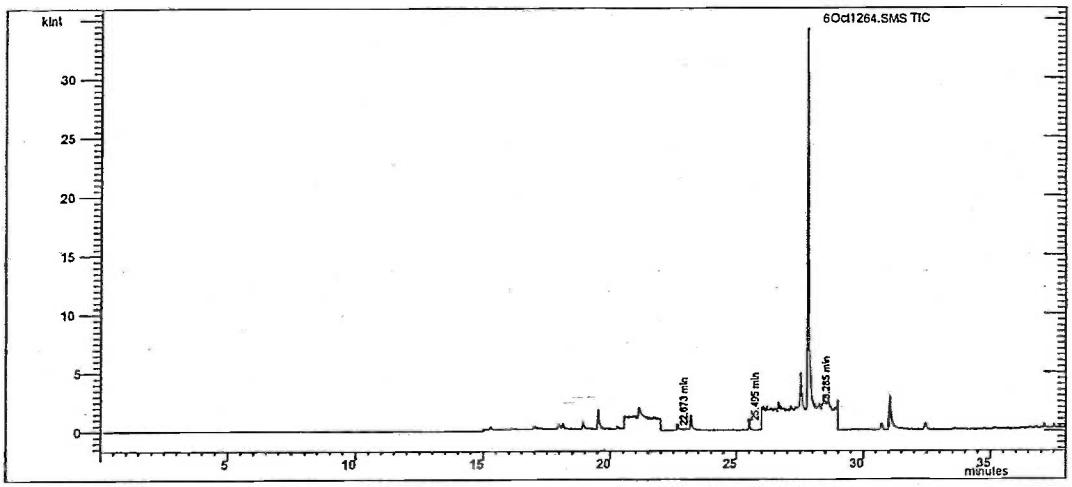


ALAB : 00246

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1264.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.005ppb tcp ic	**Acquisition Date:**	10/22/2012 2:00:44 PM
Inj. Notes:		**Operator Name:**	RyanP



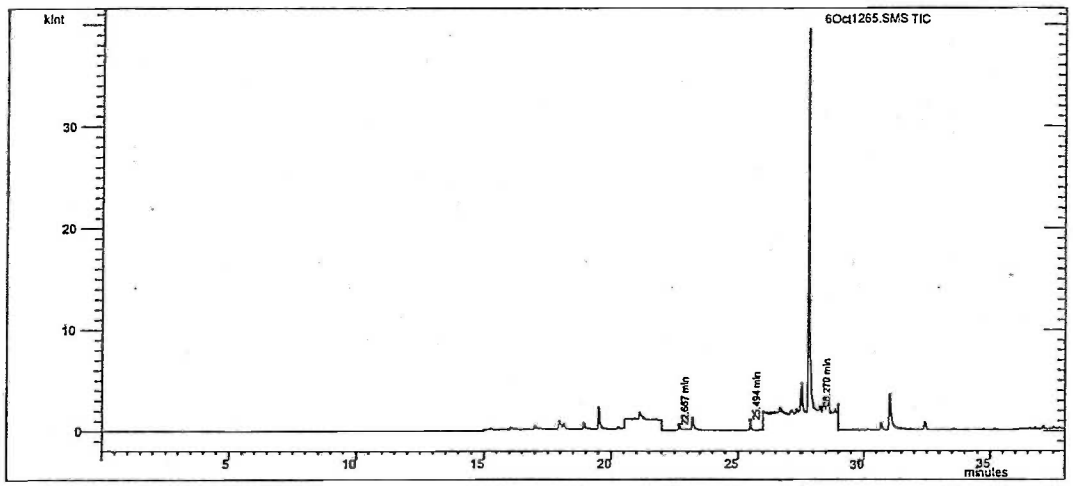
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.495	117.0+82.0	Chlorobenzene-d5(IS2)	998	2092	1.000
28.285	75.0	1,2,3 - TCP	1000	621	0.006
22.673	98.0+70.0	Toluene-d8 (Surr 3)	919	688	0.862

ALAB : 00247

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1265.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.01ppb tcp ic	**Acquisition Date:**	10/22/2012 3:00:07 PM
Inj. Notes:		**Operator Name:**	RyanP



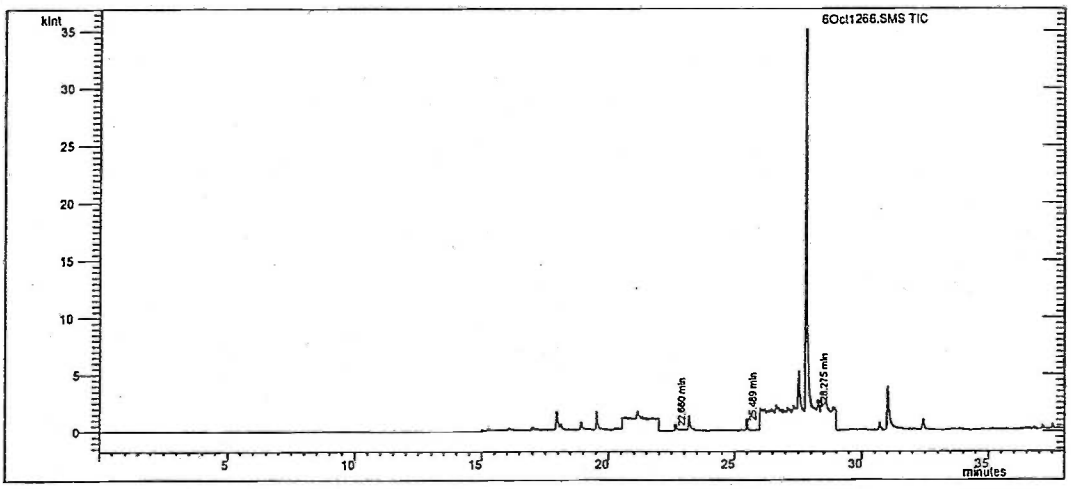
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.494	117.0+82.0	Chlorobenzene-d5(IS2)	999	2434	1.000
28.279	75.0	1,2,3 - TCP	1000	1139	0.009
22.667	98.0+70.0	Toluene-d8 (Surr 3)	944	1035	1.115

ALAB : 69248

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1266.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp ic	**Acquisition Date:**	10/22/2012 4:03:26 PM
Inj. Notes:		**Operator Name:**	RyanP



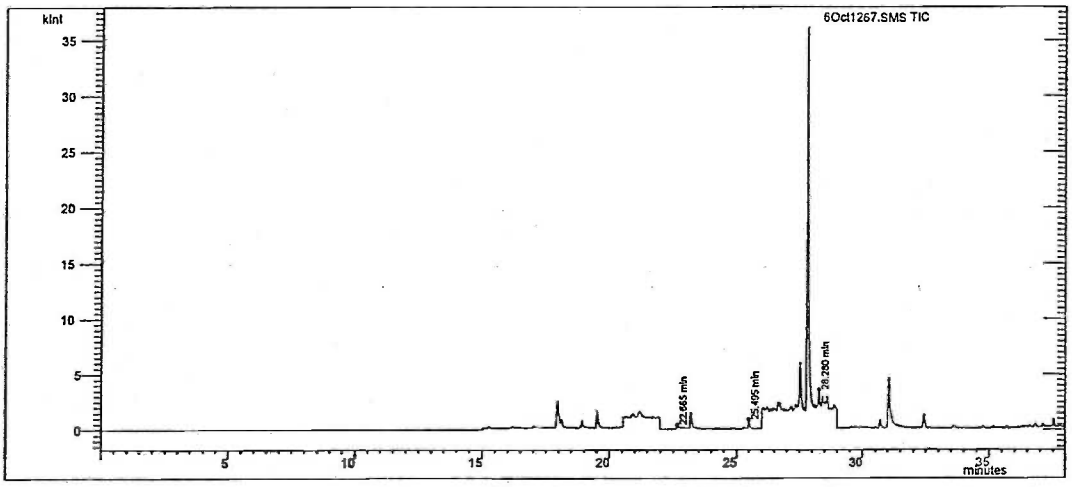
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.489	117.0+82.0	Chlorobenzene-d5(IS2)	998	2205	1.000
28.275	75.0	1,2,3 - TCP	1000	2760	0.023
22.660	98.0+70.0	Toluene-d8 (Surr 3)	955	812	0.966

ALAB : 60249

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1267.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.05ppb tcp ic	**Acquisition Date:**	10/22/2012 5:05:50 PM
Inj. Notes:		**Operator Name:**	RyanP



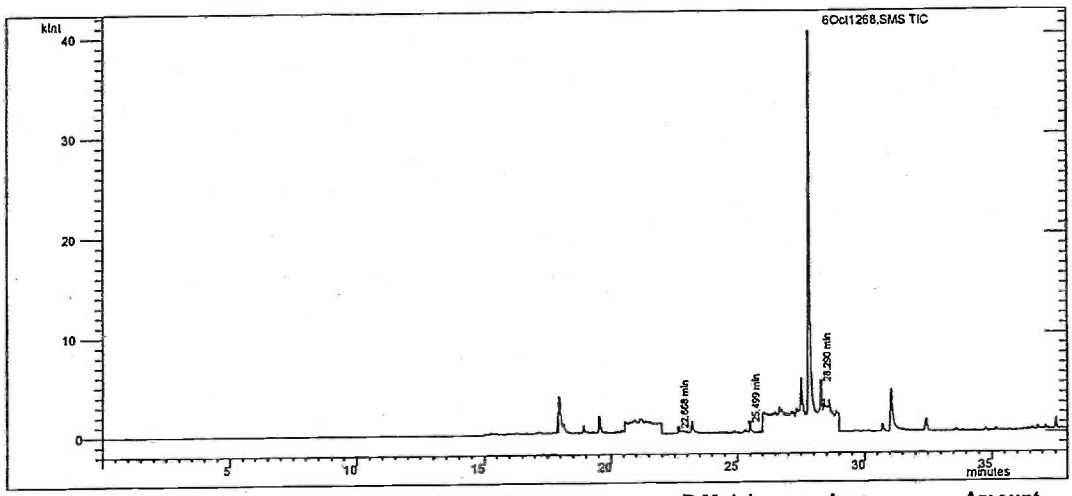
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.495	117.0+82.0	Chlorobenzene-d5(IS2)	998	2183	1.000
28.280	75.0	1,2,3 - TCP	1000	5548	0.048
22.665	98.0+70.0	Toluene-d8 (Surr 3)	892	873	1.049

ALAB : 00259

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1268.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.1ppb tcp ic	**Acquisition Date:**	10/22/2012 6:11:48 PM
Inj. Notes:		**Operator Name:**	RyanP

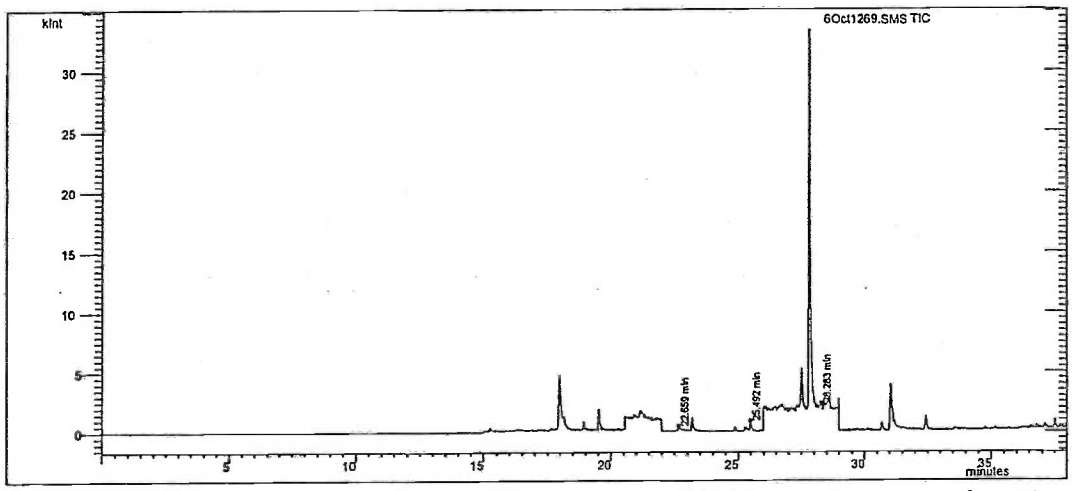


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.499	117.0+82.0	Chlorobenzene-d5(IS2)	999	2444	1.000
28.290	75.0	1,2,3 - TCP	1000	11238	0.086
22.668	98.0+70.0	Toluene-d8 (Surr 3)	873	949	1.018

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1269.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	rinse	**Acquisition Date:**	10/22/2012 7:08:34 PM
Inj. Notes:		**Operator Name:**	RyanP



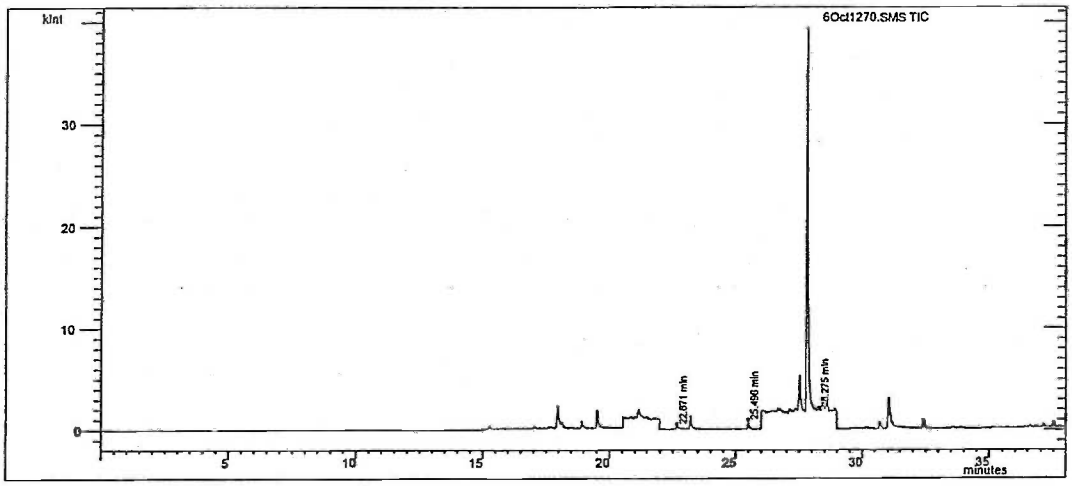
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.492	117.0+82.0	Chlorobenzene-d5(IS2)	999	2075	1.000
28.283	75.0	1,2,3 - TCP	1000	1236	0.011
22.659	98.0+70.0	Toluene-d8 (Surr 3)	949	774	0.978

ALAB : 00252

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1270.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	rinse	**Acquisition Date:**	10/22/2012 8:05:38 PM
Inj. Notes:		**Operator Name:**	RyanP



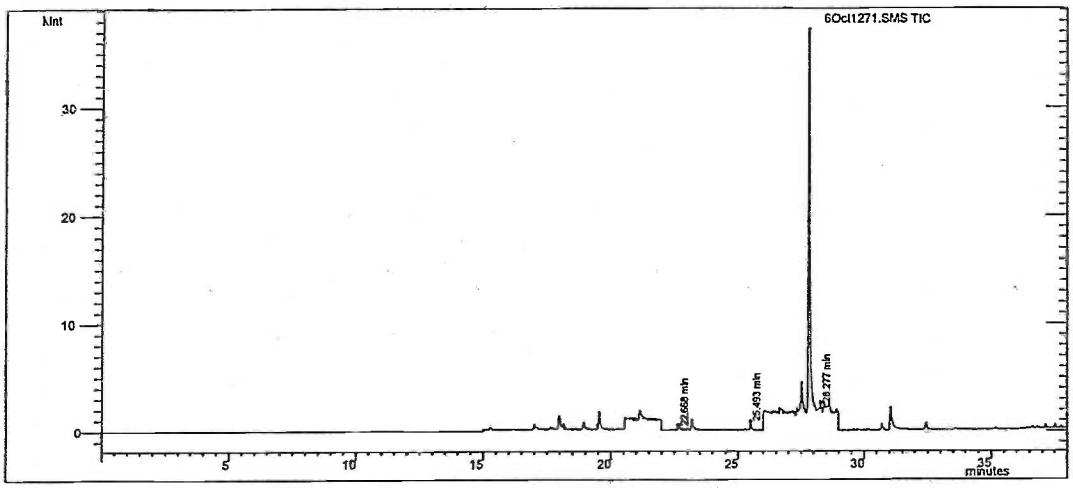
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.496	117.0+82.0	Chlorobenzene-d5(IS2)	999	2288	1.000
28.275	75.0	1,2,3 - TCP	1000	729	0.006
22.671	98.0+70.0	Toluene-d8 (Surr 3)	887	817	0.937

ALAB : 00253

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1271.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp ccv	**Acquisition Date:**	10/22/2012 9:02:30 PM
Inj. Notes:	w#12100901	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.493	117.0+82.0	Chlorobenzene-d5(IS2)	999	2394	1.000
28.277	75.0	1,2,3 - TCP	1000	2663	0.021
22.668	98.0+70.0	Toluene-d8 (Surr 3)	927	925	1.014

ALAB : 9825H

EPA 8270M

GC/MS/SIM

CONFIDENTIAL

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130645

Created Date:	10/18/2012
Created By:	qnguyen
Matrix:	Water

Test:	8270M Dioxane
Method:	EPA 8270M
Instrument:	SVOA-MS (group
AnalysisDate:	10/16/2012
AnalysisEmployee:	

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Extraction Time	Comments
0	LCS_1									
1	LCSD_1									
2	Method Blank_1									
3	312080-015	MW-3	312080-015							
4	312159-003	MW-4	312159-003							
5	312159-004	MW-7	312159-004							
6	312159-006	EB101512 Equip Blank	312159-006							
7	312205-002	MW-8	312205-002							
8	312205-003	MW-8-DUP	312205-003							
9	312205-004	MW-5	312205-004							
10	312205-007	EB101612 Equip Blank	312205-007							

due. 10/23/12
Needs Review
KEW
Man

InitialCalibSTD:	
CalibCheckSTD:	
InternalSTD:	
SurrogateSTD:	
LCSSTD:	
MSSTD:	

Solvent Manufacturer and Lot:	
Sand Manufacturer and Lot:	
Na2SO4 Manufacturer and Lot:	
Surrogate Lot:	
Spike Lot:	
Prep By Signature:	

ASSOCIATED LABORATORIES
8270-M PREP SHEET

BATCH ID: 8270M-101612

LAB REQUEST #	PREP METHOD	MATRIX TYPE	SURR. ADDED	SPIKE ADDED	INITIAL WT / VOL	FINAL VOLUME	EXTRACTION: DATE	EXTRACTION: TIME	EXTRACTION: BY	COMMENT
BLANK 101612	8270M	W	50 µL	—	500mL	0.5mL	10/16/12	6:00pm	H-C	
LCS 101612				50 µL						
LCSD				50 µL						
312080 015				—						Arcadis
312159 003				—						Arcadis
004				—						"
006				—						"
312205 002				—						Arcadis
003				—						
004				—						
007				—						

Solvent Manufacturer and Lot # Fisher # 124145

Sand Manufacturer & Lot # —

Surrogate Lot # W-6270

Spike Lot # W-6145

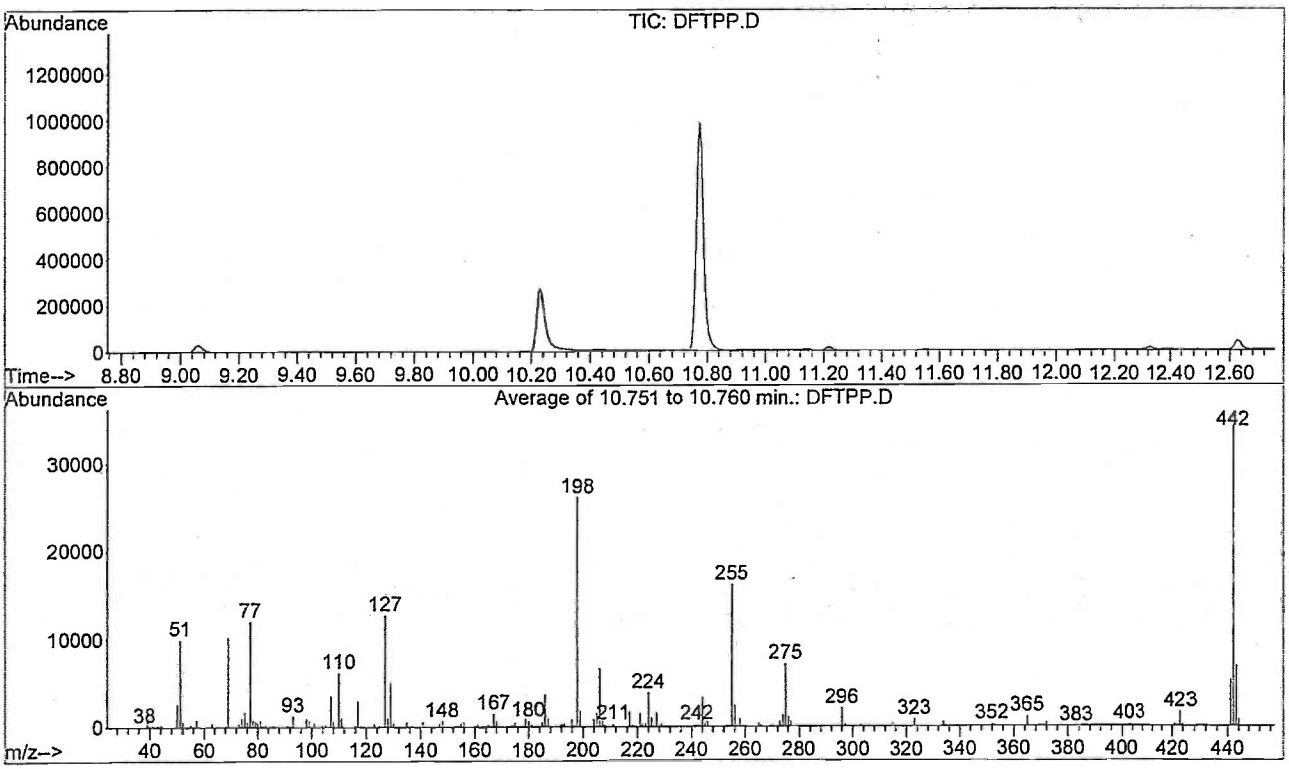
Na_2SO_4 Manufacturer & Lot # M.T. # 30562N

ALAB: 8245
ALAB: 02257

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : DFTPP.D
Acq On : 17 Oct 2012 1:36 pm
Operator : QN
Sample : DFTPP
Misc : s-1948
ALS Vial : 98 Sample Multiplier: 1

Integration File: EVENTS.E

Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Title :
Last Update : Wed May 05 16:21:01 2010



Spectrum Information: Average of 10.751 to 10.760 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.8	9882	PASS
68	69	0.00	2	1.7	173	PASS
69	198	0.00	100	39.0	10202	PASS
70	69	0.00	2	0.6	63	PASS
127	198	40	60	48.5	12675	PASS
197	198	0.00	1	0.7	196	PASS
198	198	100	100	100.0	26136	PASS
199	198	5	9	6.8	1775	PASS
275	198	10	30	27.2	7099	PASS
365	198	1	100	4.2	1105	PASS
441	443	0.01	100	77.1	5280	PASS
442	198	40	200	132.0	34503	PASS
443	442	17	23	19.9	6850	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : ICV@10ppb-01.D
Acq On : 17 Oct 2012 2:05 pm
Operator : QN
Sample : ICV@10ppb
Misc : W-6204
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 17 14:22:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

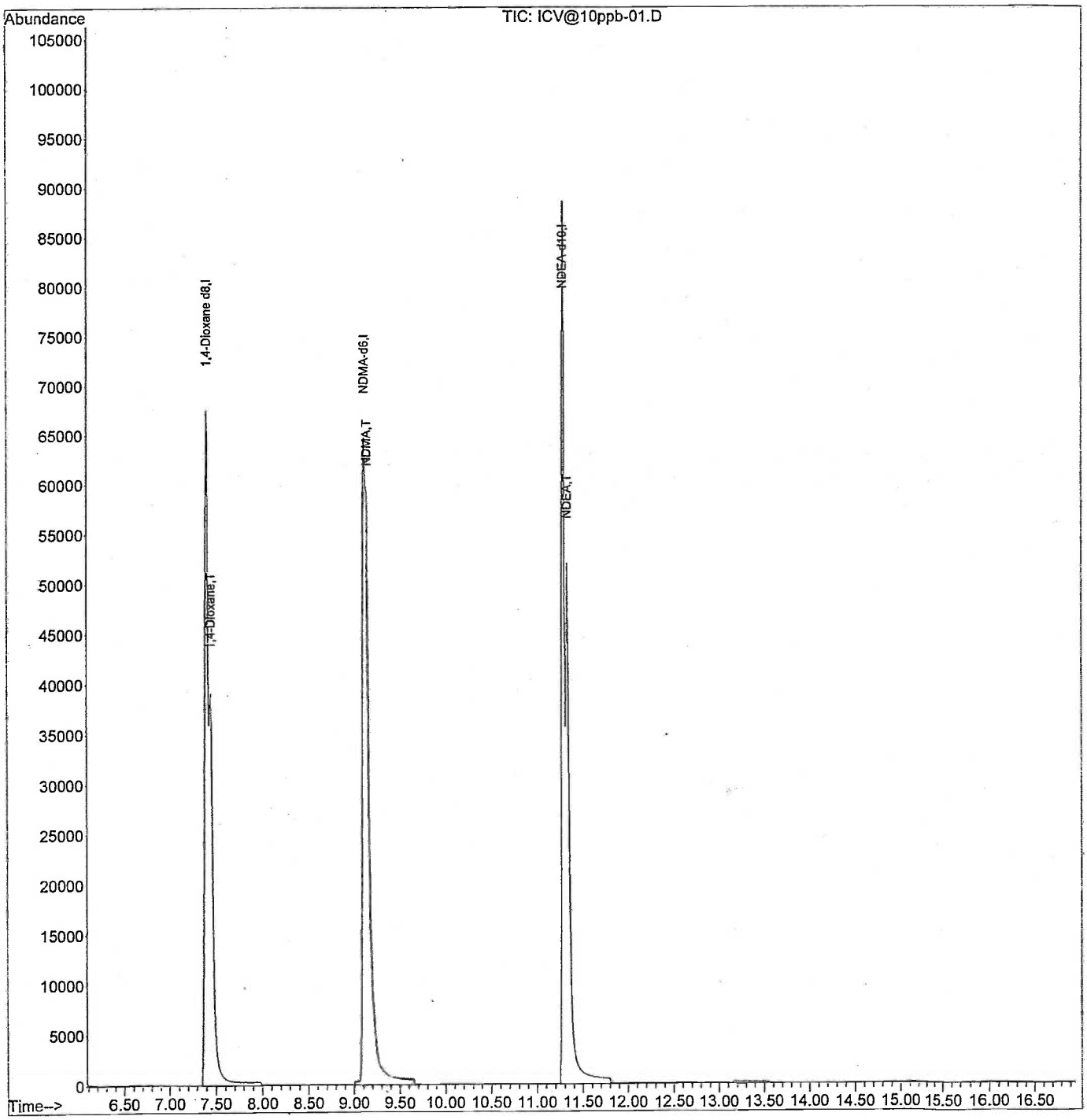
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	1137824	20.00	ug/L	-0.18
3) NDMA-d6	9.11	80	1669556	20.00	ug/L	-0.18
5) NDEA-d10	11.29	112	1475015	20.00	ug/L	-0.18
Target Compounds						**Qvalue**
2) 1,4-Dioxane	7.45	88	538894	10.25	ug/L	98
4) NDMA	9.15	74	699282	9.44	ug/L	100
6) NDEA	11.34	102	702860	10.96	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : ICV@10ppb-01.D
Acq On : 17 Oct 2012 2:05 pm
Operator : QN
Sample : ICV@10ppb
Misc : W-6204
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 17 14:22:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00260

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : 10-17-12_01.D
Acq On : 17 Oct 2012 2:31 pm
Operator : QN
Sample : 625M_Blk_101612
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 17 14:48:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	218652	20.00	ug/L	-0.18
3) NDMA-d6	9.13	80	296890	20.00	ug/L	-0.16
5) NDEA-d10	11.30	112	295498	20.00	ug/L	-0.17

Target Compounds	Qvalue

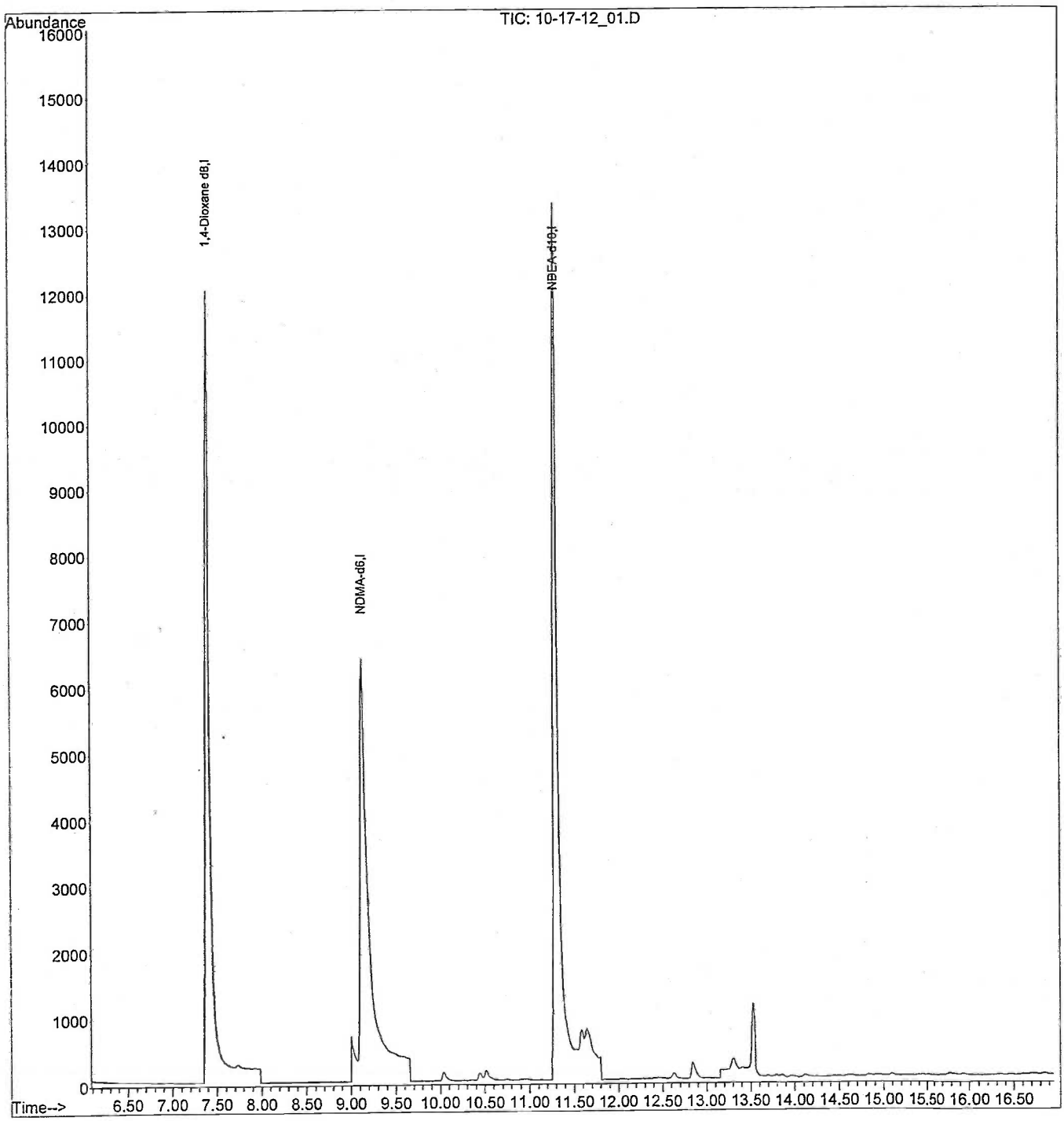
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALAB : 00261

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : 10-17-12_01.D
Acq On : 17 Oct 2012 2:31 pm
Operator : QN
Sample : 625M_Blk_101612
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 17 14:48:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00252

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_02.D
Acq On : 17 Oct 2012 2:58 pm
Operator : QN
Sample : 625M_LCS_101612
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 18 15:13:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

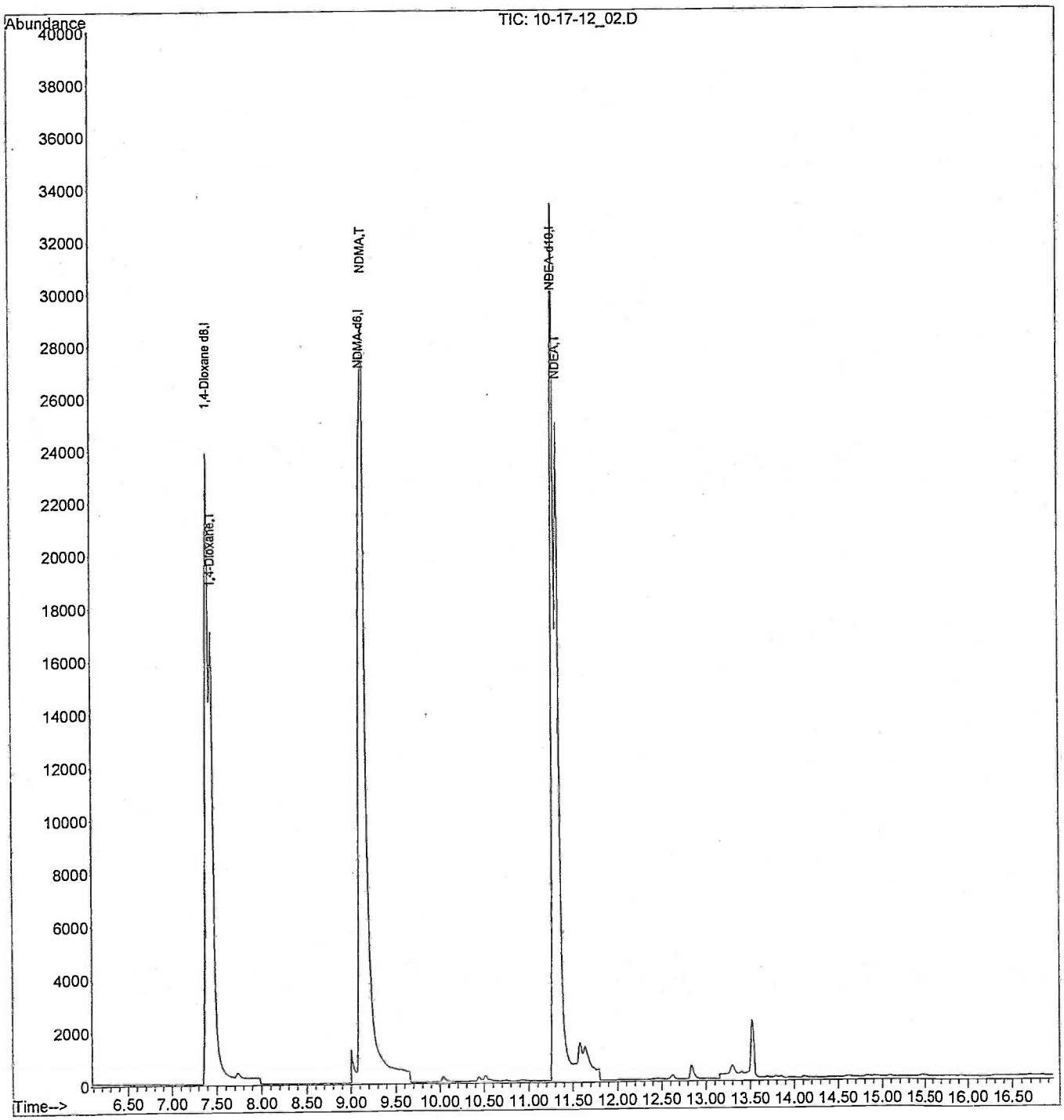
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	389825m	20.00	ug/L	-0.17
3) NDMA-d6	9.11	80	645607	20.00	ug/L	-0.18
5) NDEA-d10	11.29	112	589644	20.00	ug/L	-0.18
Target Compounds						Qvalue
2) 1,4-Dioxane	7.45	88	247237	13.72	ug/L	97
4) NDMA	9.15	74	387259	13.51	ug/L	99
6) NDEA	11.34	102	357723	13.95	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_02.D
Acq On : 17 Oct 2012 2:58 pm
Operator : QN
Sample : 625M_LCS_101612
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 18 15:13:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 69264

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : 10-17-12_03.D
Acq On : 17 Oct 2012 3:24 pm
Operator : QN
Sample : 625M_LCSD_101612
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 15:41:36 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	297192	20.00	ug/L	-0.18
3) NDMA-d6	9.12	80	432425	20.00	ug/L	-0.17
5) NDEA-d10	11.30	112	401717	20.00	ug/L	-0.17
Target Compounds						Qvalue
2) 1,4-Dioxane	7.45	88	194569	14.17	ug/L	98
4) NDMA	9.15	74	279462	14.56	ug/L	98
6) NDEA	11.34	102	257178	14.72	ug/L	92

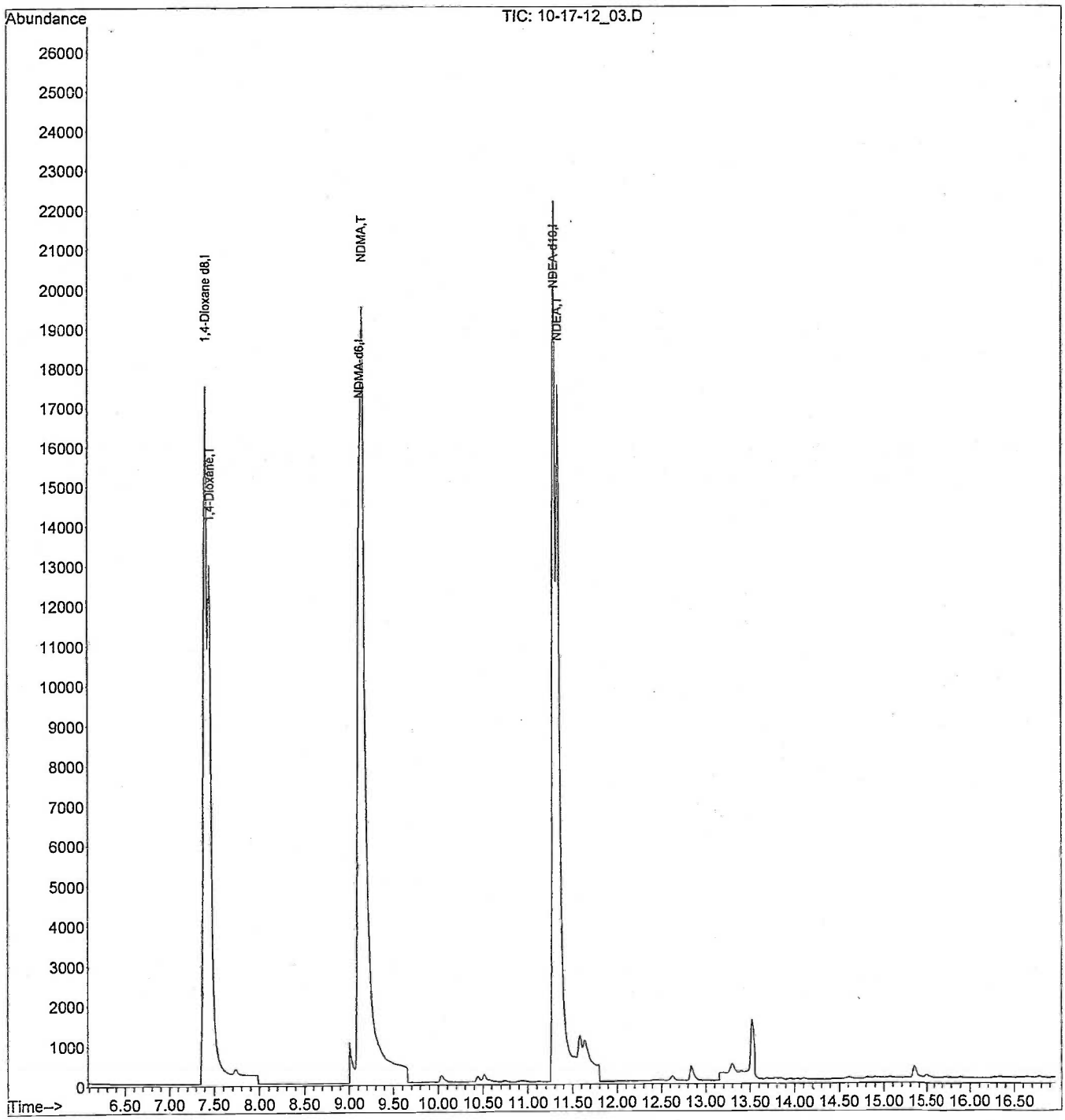
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALAB : 00255

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : 10-17-12_03.D
Acq On : 17 Oct 2012 3:24 pm
Operator : QN
Sample : 625M_LCSD_101612
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 15:41:36 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00266

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_08.D
Acq On : 17 Oct 2012 5:36 pm
Operator : QN
Sample : 312205-002
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 18 16:44:19 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	284861	20.00 ug/L	-0.18
3) NDMA-d6	9.12	80	402837	20.00 ug/L	-0.17
5) NDEA-d10	11.30	112	405617	20.00 ug/L	-0.17
Target Compounds					Qvalue
2) 1,4-Dioxane	7.44	88	115482m	8.77 ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

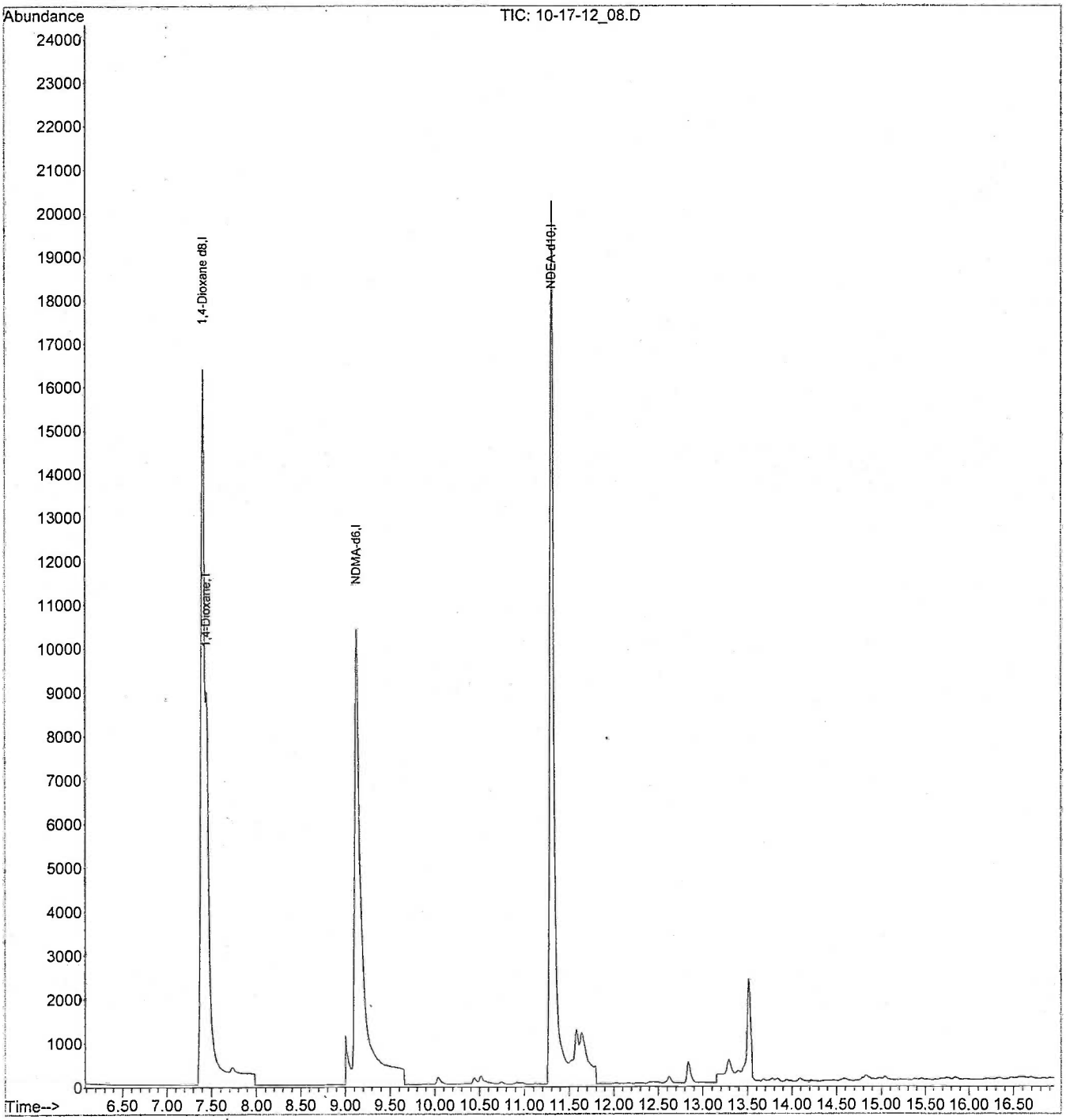
10/18/12

ALAB : 00267

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_08.D
Acq On : 17 Oct 2012 5:36 pm
Operator : QN
Sample : 312205-002
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 18 16:44:19 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_09.D
Acq On : 17 Oct 2012 6:03 pm
Operator : QN
Sample : 312205-003
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 18 15:18:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane d8	7.42	96	553419	20.00 ug/L	-0.16
3) NDMA-d6	9.12	80	874876	20.00 ug/L	-0.17
5) NDEA-d10	11.30	112	831055	20.00 ug/L	-0.17
Target Compounds					Qvalue
2) 1,4-Dioxane	7.47	88	223250	8.73 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

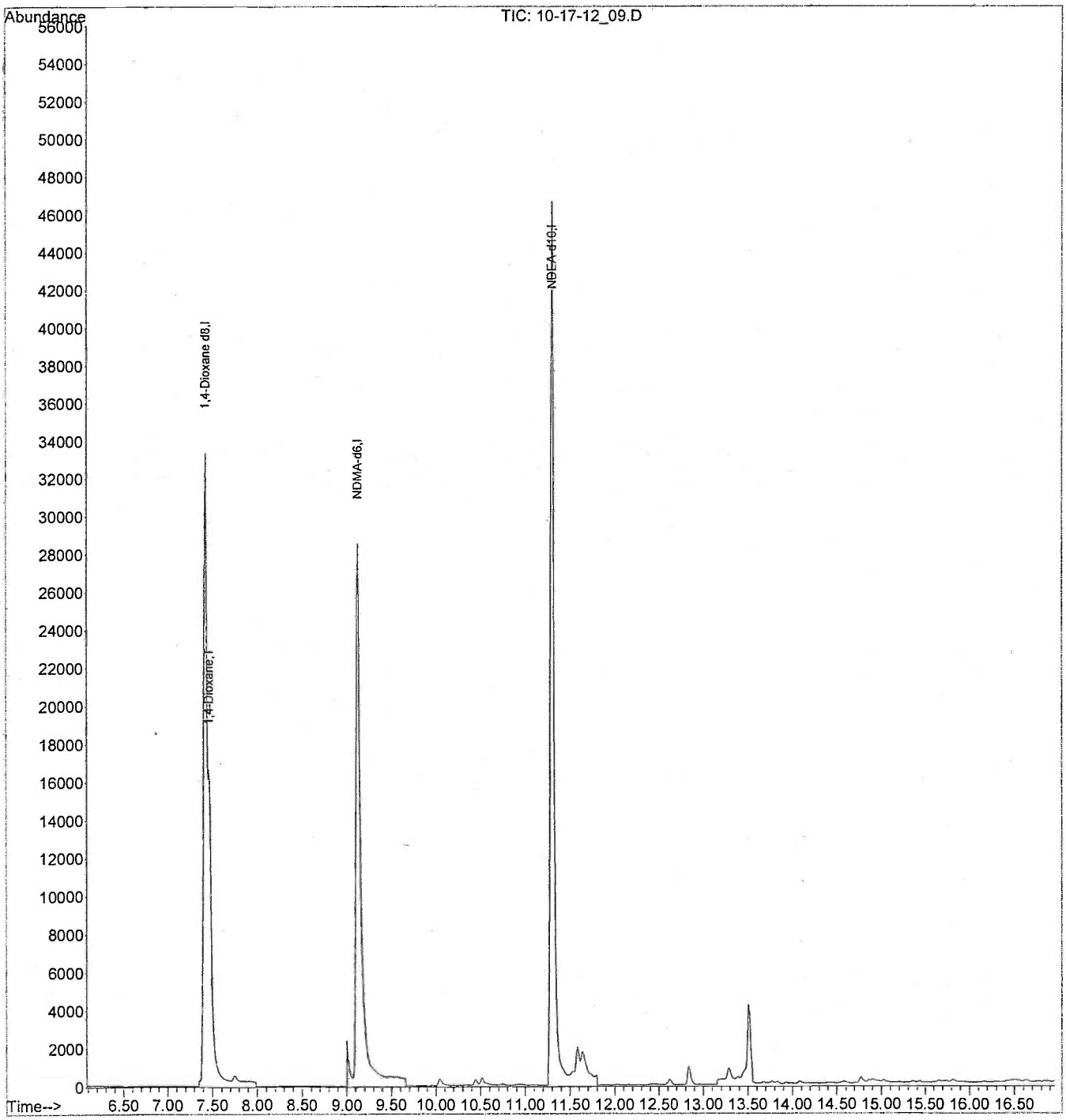
10/18/12

ALAB : 00268

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_09.D
Acq On : 17 Oct 2012 6:03 pm
Operator : QN
Sample : 312205-003
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 18 15:18:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00259