Sequence No.: 16
Sample ID: RG11 MB1SPK SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 312
Date Collected: 8/6/2010 10:29:53 AM
Data Type: Original

DEL

Nebulizer Parameters: RG11 MB1SPK SWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG11 MB1SPK SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1939033.5	102.0	%	2.17				2.12%
ScR 361.383	295863.1	101.1	%	1.65				1.63%
Ag 328.068†	92091.3	0.5316	mg/L	0.01036	1.063	mg/L	0.0207	1.95%
Al 308.215†	2649.8	2.088	mg/L	0.0462	4.177	mg/L	0.0924	2.21%
As 188.979†	2868.0	2.078	mg/L	0.0508	4.156	mg/L	0.1016	2.45%
B 249.677†	-0.8	-0.00153	mg/L	0.000750	-0.00306	mg/L	0.001499	48.94%
Ba 233.527†	6409.4	2.079	mg/L	0.0389	4.157	mg/L	0.0778	1.87%
Be 313.042†	269592.0	0.4903	mg/L	0.00485	0.9807	mg/L	0.00970	0.99%
Ca 317.933†	149100.3	10.37	mg/L	0.213	20.75	mg/L	0.425	2.05%
Cd 228.802†	11113.1	0.5211	mg/L	0.00900	1.042	mg/L	0.0180	1.73%
Co 228.616†	15046.0	0.5087	mg/L	0.00894	1.017	mg/L	0.0179	1.76%
Cr 267.716†	2487.0	0.5261	mg/L	0.00916	1.052	mg/L	0.0183	1.74%
Cu 324.752†	137265.7	0.4954	mg/L	0.01630	0.9909	mg/L	0.03259	3.29%
Fe 273.955†	2384.7	2.102	mg/L	0.0404	4.204	mg/L	0.0809	1.92%
K 766.490†	14825.3	10.37	mg/L	0.112	20.73	mg/L	0.225	1.09%
Mg 279.077†	9489.4	10.27	mg/L	0.192	20.54	mg/L	0.384	1.87%
Mn 257.610†	14530.2	0.4961	mg/L	0.00675	0.9921	mg/L	0.01350	1.36%
Mo 202.031†	18.7	0.00091	mg/L	0.000281	0.00182	mg/L	0.000563	30.91%
Na 589.592†	117703.8	9.919	mg/L	0.1321	19.84	mg/L	0.264	1.33%
Na 330.237†	314.9	10.83	mg/L	0.385	21.66	mg/L	0.770	3.56%
Ni 231.604†	807.3	0.4986	mg/L	0.00748	0.9972	mg/L	0.01497	1.50%
Pb 220.353†	13839.0	2.007	mg/L	0.0311	4.014	mg/L	0.0621	1.55%
Sb 206.836†	27.9	0.00656	mg/L	0.003094	0.01311	mg/L	0.006188	47.19%
Se 196.026†	2498.7	2.098	mg/L	0.0544	4.196	mg/L	0.1088	2.59%
Si 288.158†	4.8	0.00514	mg/L	0.004635	0.01027	mg/L	0.009270	90.24%
Sn 189.927†	-9.7	-0.00215	mg/L	0.000310	-0.00429	mg/L	0.000620	14.44%
Sr 421.552†	317884.3	0.5027	mg/L	0.00408	1.005	mg/L	0.0082	0.81%
Ti 334.903†	25.2	0.00041	mg/L	0.000458	0.00081	mg/L	0.000917	112.98%
Tl 190.801†	3542.2	2.058	mg/L	0.0544	4.116	mg/L	0.1087	2.64%
V 292.402†	49964.2	0.5209	mg/L	0.00768	1.042	mg/L	0.0154	1.47%
Zn 206.200†	305.0	0.4918	mg/L	0.00734	0.9836	mg/L	0.01469	1.49%

Sequence No.: 17
Sample ID: RG11 MB1SPD Sheet
Analyst: ALA
Dilution: 2X

+8.6 DEL

Autosampler Location: 313
Date Collected: 8/6/2010 10:34:04 AM
Data Type: Original

Nebulizer Parameters: RG11 MB1SPD

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG11 MB1SPD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1930298.4	101.5	%	3.25				3.20%
ScR 361.383	294099.1	100.5	%	0.96				0.96%
Ag 328.068†	92155.4	0.5320	mg/L	0.01265	1.064	mg/L	0.0253	2.38%
Al 308.215†	2661.6	2.098	mg/L	0.0170	4.195	mg/L	0.0340	0.81%
As 188.979†	2873.6	2.082	mg/L	0.0638	4.164	mg/L	0.1276	3.06%
B 249.677†	-6.6	-0.00328	mg/L	0.001527	-0.00655	mg/L	0.003053	46.60%
Ba 233.527†	6414.4	2.080	mg/L	0.0207	4.160	mg/L	0.0414	1.00%
Be 313.042†	270602.8	0.4922	mg/L	0.00382	0.9843	mg/L	0.00765	0.78%
Ca 317.933†	143945.0	10.02	mg/L	0.082	20.03	mg/L	0.163	0.82%
Cd 228.802†	11146.6	0.5227	mg/L	0.01554	1.045	mg/L	0.0311	2.97%
Co 228.616†	15039.3	0.5085	mg/L	0.01451	1.017	mg/L	0.0290	2.85%
Cr 267.716†	2495.1	0.5278	mg/L	0.00614	1.056	mg/L	0.0123	1.16%
Cu 324.752†	137393.9	0.4959	mg/L	0.01822	0.9918	mg/L	0.03645	3.68%
Fe 273.955†	2410.9	2.125	mg/L	0.0183	4.251	mg/L	0.0366	0.86%
K 766.490†	14924.1	10.43	mg/L	0.032	20.87	mg/L	0.064	0.31%
Mg 279.077†	9531.0	10.31	mg/L	0.031	20.63	mg/L	0.063	0.30%
Mn 257.610†	14608.5	0.4987	mg/L	0.00297	0.9975	mg/L	0.00595	0.60%
Mo 202.031†	18.1	0.00088	mg/L	0.000297	0.00175	mg/L	0.000595	33.90%
Na 589.592†	118218.4	9.962	mg/L	0.0596	19.92	mg/L	0.119	0.60%
Na 330.237†	308.2	10.59	mg/L	0.057	21.19	mg/L	0.114	0.54%
Ni 231.604†	810.2	0.5004	mg/L	0.00630	1.001	mg/L	0.0126	1.26%
Pb 220.353†	13863.6	2.011	mg/L	0.0484	4.021	mg/L	0.0967	2.41%
Sb 206.836†	17.2	0.00258	mg/L	0.002075	0.00515	mg/L	0.004149	80.49%
Se 196.026†	2502.7	2.101	mg/L	0.0643	4.203	mg/L	0.1285	3.06%
Si 288.158†	3.5	0.00423	mg/L	0.001894	0.00846	mg/L	0.003788	44.78%
Sn 189.927†	-8.8	-0.00193	mg/L	0.000320	-0.00386	mg/L	0.000639	16.56%
Sr 421.552†	319716.2	0.5056	mg/L	0.00414	1.011	mg/L	0.0083	0.82%
Ti 334.903†	18.3	0.00011	mg/L	0.000410	0.00022	mg/L	0.000821	367.90%
Tl 190.801†	3544.0	2.059	mg/L	0.0666	4.118	mg/L	0.1333	3.24%
V 292.402†	50199.9	0.5233	mg/L	0.01181	1.047	mg/L	0.0236	2.26%
Zn 206.200†	307.4	0.4957	mg/L	0.00869	0.9914	mg/L	0.01738	1.75%

Sequence No.: 18
Sample ID: CV 2
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 10:38:15 AM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1929390.4	101.5	%	0.96				0.95%
ScR 361.383	279806.6	95.60	%	0.680				0.71%
Ag 328.068†	181722.2	1.049	mg/L	0.0122	1.049	mg/L	0.0122	1.16%
Al 308.215†	2836.5	2.213	mg/L	0.0129	2.213	mg/L	0.0129	0.58%
As 188.979†	2830.2	2.068	mg/L	0.0173	2.068	mg/L	0.0173	0.83%
B 249.677†	3485.0	1.051	mg/L	0.0059	1.051	mg/L	0.0059	0.56%
Ba 233.527†	3365.1	1.091	mg/L	0.0059	1.091	mg/L	0.0059	0.54%
Be 313.042†	569051.9	1.035	mg/L	0.0085	1.035	mg/L	0.0085	0.82%
Ca 317.933†	31741.7	2.208	mg/L	0.0138	2.208	mg/L	0.0138	0.62%
Cd 228.802†	22644.5	1.069	mg/L	0.0145	1.069	mg/L	0.0145	1.35%
Co 228.616†	30798.1	1.040	mg/L	0.0153	1.040	mg/L	0.0153	1.47%
Cr 267.716†	5245.7	1.112	mg/L	0.0083	1.112	mg/L	0.0083	0.74%
Cu 324.752†	290964.3	1.049	mg/L	0.0114	1.049	mg/L	0.0114	1.09%
Fe 273.955†	2445.3	2.153	mg/L	0.0188	2.153	mg/L	0.0188	0.87%
K 766.490†	31074.9	21.73	mg/L	0.004	21.73	mg/L	0.004	0.02%
Mg 279.077†	2012.1	2.183	mg/L	0.0198	2.183	mg/L	0.0198	0.91%
Mn 257.610†	30875.4	1.054	mg/L	0.0043	1.054	mg/L	0.0043	0.41%
Mo 202.031†	17549.3	1.021	mg/L	0.0120	1.021	mg/L	0.0120	1.18%
Na 589.592†	624705.6	52.64	mg/L	0.478	52.64	mg/L	0.478	0.91%
Na 330.237†	1605.2	55.53	mg/L	0.466	55.53	mg/L	0.466	0.84%
Ni 231.604†	1716.5	1.062	mg/L	0.0079	1.062	mg/L	0.0079	0.74%
Pb 220.353†	14186.1	2.058	mg/L	0.0214	2.058	mg/L	0.0214	1.04%
Sb 206.836†	5669.7	2.117	mg/L	0.0231	2.117	mg/L	0.0231	1.09%
Se 196.026†	2466.7	2.072	mg/L	0.0268	2.072	mg/L	0.0268	1.29%
Si 288.158†	3333.4	2.261	mg/L	0.0140	2.261	mg/L	0.0140	0.62%
Sn 189.927†	3770.6	1.027	mg/L	0.0119	1.027	mg/L	0.0119	1.16%
Sr 421.552†	673626.6	1.065	mg/L	0.0104	1.065	mg/L	0.0104	0.98%
Ti 334.903†	23447.7	1.066	mg/L	0.0016	1.066	mg/L	0.0016	0.15%
Tl 190.801†	3527.1	2.051	mg/L	0.0247	2.051	mg/L	0.0247	1.20%
V 292.402†	99594.0	1.039	mg/L	0.0075	1.039	mg/L	0.0075	0.72%
Zn 206.200†	655.4	1.057	mg/L	0.0065	1.057	mg/L	0.0065	0.61%

Sequence No.: 19
Sample ID: CB
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 10:42:28 AM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1941046.8	102.1	%	0.70				0.68%
ScR 361.383	279669.7	95.55	%	0.726				0.76%
Ag 328.068†	-20.1	-0.00012	mg/L	0.000102	-0.00012	mg/L	0.000102	87.87%
Al 308.215†	-6.5	-0.00517	mg/L	0.004567	-0.00517	mg/L	0.004567	88.34%
As 188.979†	-1.2	-0.00090	mg/L	0.000314	-0.00090	mg/L	0.000314	34.95%
B 249.677†	-3.2	-0.00096	mg/L	0.001306	-0.00096	mg/L	0.001306	135.64%
Ba 233.527†	2.5	0.00081	mg/L	0.000587	0.00081	mg/L	0.000587	72.38%
Be 313.042†	99.1	0.00018	mg/L	0.000075	0.00018	mg/L	0.000075	41.63%
Ca 317.933†	23.4	0.00163	mg/L	0.001235	0.00163	mg/L	0.001235	75.86%
Cd 228.802†	1.9	0.00009	mg/L	0.000034	0.00009	mg/L	0.000034	35.89%
Co 228.616†	1.2	0.00004	mg/L	0.000116	0.00004	mg/L	0.000116	293.25%
Cr 267.716†	-3.5	-0.00074	mg/L	0.000812	-0.00074	mg/L	0.000812	109.39%
Cu 324.752†	-10.2	-0.00004	mg/L	0.000322	-0.00004	mg/L	0.000322	864.49%
Fe 273.955†	-3.7	-0.00328	mg/L	0.001436	-0.00328	mg/L	0.001436	43.76%
K 766.490†	98.9	0.06914	mg/L	0.018016	0.06914	mg/L	0.018016	26.06%
Mg 279.077†	1.8	0.00198	mg/L	0.016643	0.00198	mg/L	0.016643	839.10%
Mn 257.610†	-0.3	-0.00001	mg/L	0.000122	-0.00001	mg/L	0.000122	>999.9%
Mo 202.031†	3.7	0.00021	mg/L	0.000138	0.00021	mg/L	0.000138	64.79%
Na 589.592†	43.8	0.00369	mg/L	0.003599	0.00369	mg/L	0.003599	97.54%
Na 330.237†	-6.6	-0.2262	mg/L	0.78478	-0.2262	mg/L	0.78478	346.98%
Ni 231.604†	3.9	0.00241	mg/L	0.001615	0.00241	mg/L	0.001615	66.97%
Pb 220.353†	-6.7	-0.00097	mg/L	0.000111	-0.00097	mg/L	0.000111	11.35%
Sb 206.836†	7.6	0.00287	mg/L	0.000990	0.00287	mg/L	0.000990	34.48%
Se 196.026†	1.7	0.00145	mg/L	0.001260	0.00145	mg/L	0.001260	87.06%
Si 288.158†	6.9	0.00465	mg/L	0.005720	0.00465	mg/L	0.005720	122.94%
Sn 189.927†	5.3	0.00144	mg/L	0.000421	0.00144	mg/L	0.000421	29.19%
Sr 421.552†	60.9	0.00010	mg/L	0.000018	0.00010	mg/L	0.000018	18.67%
Ti 334.903†	0.7	0.00003	mg/L	0.000254	0.00003	mg/L	0.000254	768.34%
Tl 190.801†	5.4	0.00315	mg/L	0.003419	0.00315	mg/L	0.003419	108.43%
V 292.402†	-3.0	-0.00003	mg/L	0.000038	-0.00003	mg/L	0.000038	109.95%
Zn 206.200†	-0.8	-0.00135	mg/L	0.003625	-0.00135	mg/L	0.003625	269.41%

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Analysis Begun

Start Time: 8/6/2010 10:48:39 AM **Plasma On Time: 8/6/2010 7:12:02 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C8121202 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\metals\Sample Information\0806.sif
Batch ID:
Results Data Set: I2100806
Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 1
Sample ID: STD2 **Date Collected: 8/6/2010 10:48:40 AM**
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1960937.8	24545.63	1.25%	103.1	%
ScR 361.383	279697.4	1432.83	0.51%	95.56	%
Ba 233.527†	33335.7	55.71	0.17%	[10]	mg/L
Cd 228.802†	213318.0	3295.79	1.55%	[10]	mg/L
Co 228.616†	301306.6	5113.68	1.70%	[10]	mg/L
Cr 267.716†	51381.4	154.99	0.30%	[10]	mg/L
Cu 324.752†	2788430.0	54663.57	1.96%	[10]	mg/L
Mn 257.610†	315116.4	469.25	0.15%	[10]	mg/L
V 292.402†	983433.1	17328.86	1.76%	[10]	mg/L

Sequence No.: 2
Sample ID: STD5

Date Collected: 8/6/2010 10:50:31 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1831252.8	28627.53	1.56%	96.30	%
ScR 361.383	295220.7	2321.17	0.79%	100.9	%
Al 308.215†	38023.1	530.05	1.39%	[30]	mg/L
Ca 317.933†	435603.2	2148.96	0.49%	[30]	mg/L
Fe 273.955†	114343.3	551.89	0.48%	[100]	mg/L
K 766.490†	145316.8	1012.11	0.70%	[100]	mg/L
Mg 279.077†	28155.8	250.41	0.89%	[30]	mg/L
Na 330.237†	2908.8	34.15	1.17%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	173200	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1267	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1380	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	3310	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3334	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	549500	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	14520	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	21330	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	30130	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	5138	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	278800	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1143	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1453	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	938.5	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	31510	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	17190	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	11870	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	29.09	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1619	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	6897	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2685	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1191	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1477	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3677	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	632400	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	21960	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1720	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	98340	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	620.0	0.00000	1.000000	

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Analysis Begun

Start Time: 8/6/2010 10:53:42 AM **Plasma On Time: 8/6/2010 7:12:02 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C8121202 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\metals\Sample Information\0806.sif
Batch ID:
Results Data Set: I2100806
Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CV 3 **Date Collected: 8/6/2010 10:53:43 AM**
Analyst: ALA **Data Type: Original**
Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1916554.3	100.8	%	0.88				0.88%
ScR 361.383	290969.8	99.41	%	1.268				1.28%
Ag 328.068†	182817.8	1.055	mg/L	0.0082	1.055	mg/L	0.0082	0.77%
Al 308.215†	2731.4	2.123	mg/L	0.0263	2.123	mg/L	0.0263	1.24%
As 188.979†	2868.1	2.095	mg/L	0.0222	2.095	mg/L	0.0222	1.06%
B 249.677†	3376.3	1.018	mg/L	0.0113	1.018	mg/L	0.0113	1.11%
Ba 233.527†	3267.4	0.9794	mg/L	0.01398	0.9794	mg/L	0.01398	1.43%
Be 313.042†	549400.9	0.9993	mg/L	0.00527	0.9993	mg/L	0.00527	0.53%
Ca 317.933†	30758.3	2.118	mg/L	0.0292	2.118	mg/L	0.0292	1.38%
Cd 228.802†	22610.8	1.053	mg/L	0.0029	1.053	mg/L	0.0029	0.28%
Co 228.616†	30913.3	1.024	mg/L	0.0027	1.024	mg/L	0.0027	0.27%
Cr 267.716†	5091.4	0.9903	mg/L	0.01265	0.9903	mg/L	0.01265	1.28%
Cu 324.752†	291831.7	1.046	mg/L	0.0066	1.046	mg/L	0.0066	0.63%
Fe 273.955†	2379.9	2.076	mg/L	0.0333	2.076	mg/L	0.0333	1.60%
K 766.490†	29986.5	20.64	mg/L	0.127	20.64	mg/L	0.127	0.62%
Mg 279.077†	1960.4	2.094	mg/L	0.0229	2.094	mg/L	0.0229	1.09%
Mn 257.610†	29709.8	0.9433	mg/L	0.01003	0.9433	mg/L	0.01003	1.06%
Mo 202.031†	17734.0	1.032	mg/L	0.0090	1.032	mg/L	0.0090	0.87%
Na 589.592†	598481.1	50.43	mg/L	0.413	50.43	mg/L	0.413	0.82%
Na 330.237†	1546.9	53.23	mg/L	0.924	53.23	mg/L	0.924	1.74%
Ni 231.604†	1671.4	1.034	mg/L	0.0128	1.034	mg/L	0.0128	1.24%
Pb 220.353†	14388.7	2.087	mg/L	0.0174	2.087	mg/L	0.0174	0.83%
Sb 206.836†	5722.0	2.138	mg/L	0.0173	2.138	mg/L	0.0173	0.81%
Se 196.026†	2501.1	2.101	mg/L	0.0163	2.101	mg/L	0.0163	0.77%
Si 288.158†	3227.5	2.189	mg/L	0.0257	2.189	mg/L	0.0257	1.18%
Sn 189.927†	3826.2	1.043	mg/L	0.0107	1.043	mg/L	0.0107	1.03%
Sr 421.552†	648206.0	1.025	mg/L	0.0037	1.025	mg/L	0.0037	0.36%
Ti 334.903†	22498.2	1.023	mg/L	0.0094	1.023	mg/L	0.0094	0.92%
Tl 190.801†	3568.3	2.075	mg/L	0.0211	2.075	mg/L	0.0211	1.02%
V 292.402†	100301.1	1.024	mg/L	0.0045	1.024	mg/L	0.0045	0.44%
Zn 206.200†	641.1	1.033	mg/L	0.0154	1.033	mg/L	0.0154	1.49%

Sequence No.: 2
Sample ID: CB 3
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 10:57:56 AM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1935027.4	101.8	%	0.51				0.50%
ScR 361.383	297442.3	101.6	%	0.64				0.63%
Ag 328.068†	-15.7	-0.00009	mg/L	0.000091	-0.00009	mg/L	0.000091	100.68%
Al 308.215†	2.9	0.00231	mg/L	0.006753	0.00231	mg/L	0.006753	292.60%
As 188.979†	2.6	0.00187	mg/L	0.001131	0.00187	mg/L	0.001131	60.54%
B 249.677†	-1.8	-0.00053	mg/L	0.002307	-0.00053	mg/L	0.002307	435.59%
Ba 233.527†	1.3	0.00039	mg/L	0.000608	0.00039	mg/L	0.000608	155.29%
Be 313.042†	-2.2	0.00000	mg/L	0.000032	0.00000	mg/L	0.000032	805.50%
Ca 317.933†	6.5	0.00045	mg/L	0.001185	0.00045	mg/L	0.001185	266.00%
Cd 228.802†	-1.2	-0.00006	mg/L	0.000202	-0.00006	mg/L	0.000202	328.60%
Co 228.616†	-0.9	-0.00003	mg/L	0.000197	-0.00003	mg/L	0.000197	635.75%
Cr 267.716†	4.0	0.00077	mg/L	0.000710	0.00077	mg/L	0.000710	92.01%
Cu 324.752†	-22.0	-0.00008	mg/L	0.000153	-0.00008	mg/L	0.000153	193.20%
Fe 273.955†	-0.5	-0.00041	mg/L	0.000253	-0.00041	mg/L	0.000253	61.75%
K 766.490†	7.2	0.00498	mg/L	0.013775	0.00498	mg/L	0.013775	276.52%
Mg 279.077†	6.8	0.00725	mg/L	0.005082	0.00725	mg/L	0.005082	70.07%
Mn 257.610†	-1.2	-0.00004	mg/L	0.000120	-0.00004	mg/L	0.000120	314.89%
Mo 202.031†	0.1	0.00000	mg/L	0.000463	0.00000	mg/L	0.000463	>999.9%
Na 589.592†	97.0	0.00818	mg/L	0.004493	0.00818	mg/L	0.004493	54.96%
Na 330.237†	3.2	0.1106	mg/L	0.34940	0.1106	mg/L	0.34940	316.02%
Ni 231.604†	5.0	0.00311	mg/L	0.001262	0.00311	mg/L	0.001262	40.61%
Pb 220.353†	-7.9	-0.00115	mg/L	0.000492	-0.00115	mg/L	0.000492	42.82%
Sb 206.836†	7.2	0.00269	mg/L	0.001302	0.00269	mg/L	0.001302	48.41%
Se 196.026†	7.5	0.00626	mg/L	0.001597	0.00626	mg/L	0.001597	25.51%
Si 288.158†	6.8	0.00463	mg/L	0.000576	0.00463	mg/L	0.000576	12.46%
Sn 189.927†	5.1	0.00139	mg/L	0.000683	0.00139	mg/L	0.000683	49.12%
Sr 421.552†	-1.0	0.00000	mg/L	0.000073	0.00000	mg/L	0.000073	>999.9%
Ti 334.903†	6.8	0.00031	mg/L	0.000299	0.00031	mg/L	0.000299	96.57%
Tl 190.801†	0.6	0.00038	mg/L	0.001184	0.00038	mg/L	0.001184	314.55%
V 292.402†	-9.0	-0.00009	mg/L	0.000432	-0.00009	mg/L	0.000432	486.61%
Zn 206.200†	-0.7	-0.00112	mg/L	0.002471	-0.00112	mg/L	0.002471	220.63%

Sequence No.: 3
Sample ID: RG30 MB1 TWC
Analyst: ALA
Dilution: 1X

Autosampler Location: 314
Date Collected: 8/6/2010 11:02:07 AM
Data Type: Original

Nebulizer Parameters: RG30 MB1 TWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG30 MB1 TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1942754.0	102.2	%	0.21				0.21%
ScR 361.383	277677.0	94.87	%	0.056				0.06%
Ag 328.068†	-4.4	-0.00003	mg/L	0.000078	-0.00003	mg/L	0.000078	305.13%
Al 308.215†	8.4	0.00661	mg/L	0.005596	0.00661	mg/L	0.005596	84.69%
As 188.979†	-0.6	-0.00042	mg/L	0.002268	-0.00042	mg/L	0.002268	540.83%
B 249.677†	-4.3	-0.00130	mg/L	0.003058	-0.00130	mg/L	0.003058	235.04%
Ba 233.527†	3.2	0.00096	mg/L	0.000156	0.00096	mg/L	0.000156	16.32%
Be 313.042†	57.6	0.00010	mg/L	0.000039	0.00010	mg/L	0.000039	37.09%
Ca 317.933†	166.4	0.01146	mg/L	0.000684	0.01146	mg/L	0.000684	5.97%
Cd 228.802†	2.2	0.00011	mg/L	0.000119	0.00011	mg/L	0.000119	110.11%
Co 228.616†	2.7	0.00009	mg/L	0.000226	0.00009	mg/L	0.000226	258.06%
Cr 267.716†	0.9	0.00017	mg/L	0.000379	0.00017	mg/L	0.000379	225.70%
Cu 324.752†	34.7	0.00012	mg/L	0.000123	0.00012	mg/L	0.000123	98.61%
Fe 273.955†	6.0	0.00521	mg/L	0.004534	0.00521	mg/L	0.004534	87.03%
K 766.490†	66.1	0.04551	mg/L	0.010966	0.04551	mg/L	0.010966	24.10%
Mg 279.077†	4.6	0.00485	mg/L	0.006011	0.00485	mg/L	0.006011	123.95%
Mn 257.610†	6.8	0.00021	mg/L	0.000216	0.00021	mg/L	0.000216	100.52%
Mo 202.031†	-1.6	-0.00009	mg/L	0.000246	-0.00009	mg/L	0.000246	269.61%
Na 589.592†	38.4	0.00324	mg/L	0.004210	0.00324	mg/L	0.004210	129.95%
Na 330.237†	0.3	0.01061	mg/L	0.437556	0.01061	mg/L	0.437556	>999.9%
Ni 231.604†	5.0	0.00308	mg/L	0.002760	0.00308	mg/L	0.002760	89.72%
Pb 220.353†	-3.3	-0.00047	mg/L	0.000334	-0.00047	mg/L	0.000334	70.85%
Sb 206.836†	1.3	0.00051	mg/L	0.000865	0.00051	mg/L	0.000865	170.77%
Se 196.026†	4.0	0.00334	mg/L	0.000739	0.00334	mg/L	0.000739	22.10%
Si 288.158†	13.8	0.00937	mg/L	0.006830	0.00937	mg/L	0.006830	72.91%
Sn 189.927†	3.6	0.00099	mg/L	0.000855	0.00099	mg/L	0.000855	86.63%
Sr 421.552†	56.4	0.00009	mg/L	0.000047	0.00009	mg/L	0.000047	52.99%
Ti 334.903†	0.8	0.00003	mg/L	0.000860	0.00003	mg/L	0.000860	>999.9%
Tl 190.801†	3.5	0.00206	mg/L	0.000523	0.00206	mg/L	0.000523	25.38%
V 292.402†	17.8	0.00018	mg/L	0.000246	0.00018	mg/L	0.000246	135.68%
Zn 206.200†	-0.0	-0.00006	mg/L	0.001341	-0.00006	mg/L	0.001341	>999.9%

Sequence No.: 4
Sample ID: RG30 F TWC
Analyst: ALA
Dilution: 1X

Autosampler Location: 315
Date Collected: 8/6/2010 11:06:04 AM
Data Type: Original

Nebulizer Parameters: RG30 F TWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG30 F TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1910460.4	100.5	%	1.08				1.07%
ScR 361.383	293466.0	100.3	%	0.43				0.43%
Ag 328.068†	-40.9	-0.00024	mg/L	0.000106	-0.00024	mg/L	0.000106	43.99%
Al 308.215†	100.8	0.07939	mg/L	0.006996	0.07939	mg/L	0.006996	8.81%
As 188.979†	18.4	0.01090	mg/L	0.002826	0.01090	mg/L	0.002826	25.93%
B 249.677†	127.7	0.03859	mg/L	0.000358	0.03859	mg/L	0.000358	0.93%
Ba 233.527†	462.2	0.1379	mg/L	0.00074	0.1379	mg/L	0.00074	0.54%
Be 313.042†	36.9	0.00007	mg/L	0.000015	0.00007	mg/L	0.000015	22.77%
Ca 317.933†	1227050.5	84.51	mg/L	0.607	84.51	mg/L	0.607	0.72%
Cd 228.802†	5.6	0.00022	mg/L	0.000131	0.00022	mg/L	0.000131	58.60%
Co 228.616†	16.9	0.00052	mg/L	0.000186	0.00052	mg/L	0.000186	35.77%
Cr 267.716†	44.2	0.00473	mg/L	0.001149	0.00473	mg/L	0.001149	24.27%
Cu 324.752†	716.3	0.00218	mg/L	0.000417	0.00218	mg/L	0.000417	19.14%
Fe 273.955†	77.7	0.06796	mg/L	0.001112	0.06796	mg/L	0.001112	1.64%
K 766.490†	8995.3	6.190	mg/L	0.0572	6.190	mg/L	0.0572	0.92%
Mg 279.077†	16068.5	17.11	mg/L	0.170	17.11	mg/L	0.170	0.99%
Mn 257.610†	921.3	0.02904	mg/L	0.000156	0.02904	mg/L	0.000156	0.54%
Mo 202.031†	102.6	0.00450	mg/L	0.000142	0.00450	mg/L	0.000142	3.16%
Na 589.592†	108123.2	9.111	mg/L	0.0395	9.111	mg/L	0.0395	0.43%
Na 330.237†	281.1	10.05	mg/L	0.190	10.05	mg/L	0.190	1.89%
Ni 231.604†	12.9	0.00798	mg/L	0.001737	0.00798	mg/L	0.001737	21.76%
Pb 220.353†	-45.2	-0.00653	mg/L	0.000465	-0.00653	mg/L	0.000465	7.12%
Sb 206.836†	10.7	0.00378	mg/L	0.001783	0.00378	mg/L	0.001783	47.14%
Se 196.026†	65.7	0.04945	mg/L	0.004765	0.04945	mg/L	0.004765	9.64%
Si 288.158†	25726.7	17.42	mg/L	0.223	17.42	mg/L	0.223	1.28%
Sn 189.927†	-43.2	-0.00783	mg/L	0.000616	-0.00783	mg/L	0.000616	7.88%
Sr 421.552†	243016.1	0.3843	mg/L	0.00171	0.3843	mg/L	0.00171	0.44%
Ti 334.903†	178.5	0.00285	mg/L	0.000434	0.00285	mg/L	0.000434	15.22%
Tl 190.801†	25.0	0.01458	mg/L	0.000596	0.01458	mg/L	0.000596	4.09%
V 292.402†	333.0	0.00342	mg/L	0.000164	0.00342	mg/L	0.000164	4.80%
Zn 206.200†	325.9	0.5256	mg/L	0.00328	0.5256	mg/L	0.00328	0.62%

Sequence No.: 5
Sample ID: RG30 G TWC
Analyst: ALA
Dilution: 1X

Autosampler Location: 316
Date Collected: 8/6/2010 11:10:15 AM
Data Type: Original

Nebulizer Parameters: RG30 G TWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG30 G TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1898995.8	99.86	%	0.214				0.21%
ScR 361.383	288586.1	98.60	%	0.636				0.64%
Ag 328.068†	-37.3	-0.00022	mg/L	0.000146	-0.00022	mg/L	0.000146	67.94%
Al 308.215†	18.4	0.01438	mg/L	0.004439	0.01438	mg/L	0.004439	30.88%
As 188.979†	24.8	0.01463	mg/L	0.003511	0.01463	mg/L	0.003511	24.00%
B 249.677†	200.6	0.06059	mg/L	0.001843	0.06059	mg/L	0.001843	3.04%
Ba 233.527†	378.6	0.1125	mg/L	0.00202	0.1125	mg/L	0.00202	1.80%
Be 313.042†	52.4	0.00009	mg/L	0.000030	0.00009	mg/L	0.000030	32.73%
Ca 317.933†	1679774.9	115.7	mg/L	0.92	115.7	mg/L	0.92	0.80%
Cd 228.802†	9.8	0.00041	mg/L	0.000186	0.00041	mg/L	0.000186	45.89%
Co 228.616†	19.7	0.00062	mg/L	0.000334	0.00062	mg/L	0.000334	54.00%
Cr 267.716†	22.1	-0.00032	mg/L	0.001216	-0.00032	mg/L	0.001216	384.35%
Cu 324.752†	797.3	0.00244	mg/L	0.000165	0.00244	mg/L	0.000165	6.75%
Fe 273.955†	4.2	0.00366	mg/L	0.001603	0.00366	mg/L	0.001603	43.77%
K 766.490†	8912.9	6.133	mg/L	0.0765	6.133	mg/L	0.0765	1.25%
Mg 279.077†	16990.9	18.09	mg/L	0.168	18.09	mg/L	0.168	0.93%
Mn 257.610†	113.3	0.00332	mg/L	0.000158	0.00332	mg/L	0.000158	4.75%
Mo 202.031†	108.8	0.00433	mg/L	0.000490	0.00433	mg/L	0.000490	11.33%
Na 589.592†	185305.1	15.62	mg/L	0.118	15.62	mg/L	0.118	0.76%
Na 330.237†	478.4	17.00	mg/L	0.266	17.00	mg/L	0.266	1.56%
Ni 231.604†	12.4	0.00767	mg/L	0.003635	0.00767	mg/L	0.003635	47.40%
Pb 220.353†	-51.1	-0.00740	mg/L	0.000965	-0.00740	mg/L	0.000965	13.05%
Sb 206.836†	12.8	0.00457	mg/L	0.001391	0.00457	mg/L	0.001391	30.41%
Se 196.026†	62.7	0.04479	mg/L	0.004020	0.04479	mg/L	0.004020	8.97%
Si 288.158†	26841.9	18.18	mg/L	0.072	18.18	mg/L	0.072	0.40%
Sn 189.927†	-54.4	-0.00944	mg/L	0.000368	-0.00944	mg/L	0.000368	3.90%
Sr 421.552†	348343.9	0.5509	mg/L	0.00278	0.5509	mg/L	0.00278	0.51%
Ti 334.903†	173.0	0.00066	mg/L	0.000165	0.00066	mg/L	0.000165	25.12%
Tl 190.801†	21.8	0.01272	mg/L	0.001407	0.01272	mg/L	0.001407	11.06%
V 292.402†	419.2	0.00428	mg/L	0.000083	0.00428	mg/L	0.000083	1.94%
Zn 206.200†	374.5	0.6040	mg/L	0.00860	0.6040	mg/L	0.00860	1.42%

Sequence No.: 6
Sample ID: RG30 H TWC
Analyst: ALA
Dilution: 1X

Autosampler Location: 317
Date Collected: 8/6/2010 11:14:27 AM
Data Type: Original

Nebulizer Parameters: RG30 H TWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG30 H TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1878036.6	98.76	%	0.469				0.47%
ScR 361.383	287978.5	98.39	%	0.589				0.60%
Ag 328.068†	-54.8	-0.00034	mg/L	0.000126	-0.00034	mg/L	0.000126	37.09%
Al 308.215†	113.3	0.08920	mg/L	0.002615	0.08920	mg/L	0.002615	2.93%
As 188.979†	22.4	0.01235	mg/L	0.003378	0.01235	mg/L	0.003378	27.36%
B 249.677†	407.2	0.1230	mg/L	0.00100	0.1230	mg/L	0.00100	0.81%
Ba 233.527†	1345.9	0.4026	mg/L	0.00333	0.4026	mg/L	0.00333	0.83%
Be 313.042†	37.9	0.00007	mg/L	0.000056	0.00007	mg/L	0.000056	83.35%
Ca 317.933†	1939469.2	133.6	mg/L	0.23	133.6	mg/L	0.23	0.17%
Cd 228.802†	6.0	0.00024	mg/L	0.000150	0.00024	mg/L	0.000150	63.87%
Co 228.616†	43.0	0.00133	mg/L	0.000050	0.00133	mg/L	0.000050	3.77%
Cr 267.716†	79.9	0.00888	mg/L	0.001490	0.00888	mg/L	0.001490	16.78%
Cu 324.752†	1278.8	0.00388	mg/L	0.000118	0.00388	mg/L	0.000118	3.06%
Fe 273.955†	175.7	0.1537	mg/L	0.00407	0.1537	mg/L	0.00407	2.65%
K 766.490†	14790.0	10.18	mg/L	0.031	10.18	mg/L	0.031	0.30%
Mg 279.077†	29297.0	31.20	mg/L	0.201	31.20	mg/L	0.201	0.65%
Mn 257.610†	3852.8	0.1220	mg/L	0.00099	0.1220	mg/L	0.00099	0.81%
Mo 202.031†	128.0	0.00513	mg/L	0.000123	0.00513	mg/L	0.000123	2.39%
Na 589.592†	459765.3	38.74	mg/L	0.069	38.74	mg/L	0.069	0.18%
Na 330.237†	1142.5	40.05	mg/L	0.544	40.05	mg/L	0.544	1.36%
Ni 231.604†	17.1	0.01054	mg/L	0.001493	0.01054	mg/L	0.001493	14.17%
Pb 220.353†	-57.2	-0.00826	mg/L	0.001168	-0.00826	mg/L	0.001168	14.14%
Sb 206.836†	18.0	0.00637	mg/L	0.001215	0.00637	mg/L	0.001215	19.09%
Se 196.026†	60.9	0.04204	mg/L	0.005278	0.04204	mg/L	0.005278	12.55%
Si 288.158†	32057.4	21.71	mg/L	0.114	21.71	mg/L	0.114	0.52%
Sn 189.927†	-60.0	-0.01013	mg/L	0.001216	-0.01013	mg/L	0.001216	12.00%
Sr 421.552†	334787.9	0.5294	mg/L	0.00165	0.5294	mg/L	0.00165	0.31%
Ti 334.903†	236.5	0.00243	mg/L	0.000145	0.00243	mg/L	0.000145	5.98%
Tl 190.801†	27.6	0.01619	mg/L	0.003086	0.01619	mg/L	0.003086	19.06%
V 292.402†	335.3	0.00348	mg/L	0.000403	0.00348	mg/L	0.000403	11.59%
Zn 206.200†	71.3	0.1150	mg/L	0.00463 ✓	0.1150	mg/L	0.00463	4.03%

Sequence No.: 7
Sample ID: RG30 ADUP TWC
Analyst: ALA
Dilution: 1X

Autosampler Location: 318
Date Collected: 8/6/2010 11:18:39 AM
Data Type: Original

Nebulizer Parameters: RG30 ADUP TWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG30 ADUP TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1886535.5	99.20	%	1.376				1.39%
ScR 361.383	287745.4	98.31	%	0.448				0.46%
Ag 328.068†	-56.1	-0.00035	mg/L	0.000210	-0.00035	mg/L	0.000210	60.46%
Al 308.215†	103.1	0.08119	mg/L	0.006807	0.08119	mg/L	0.006807	8.38%
As 188.979†	24.5	0.01373	mg/L	0.000947	0.01373	mg/L	0.000947	6.90%
B 249.677†	423.1	0.1278	mg/L	0.00355	0.1278	mg/L	0.00355	2.78%
Ba 233.527†	1388.8	0.4154	mg/L	0.00349	0.4154	mg/L	0.00349	0.84%
Be 313.042†	23.4	0.00004	mg/L	0.000023	0.00004	mg/L	0.000023	56.19%
Ca 317.933†	1994567.0	137.4	mg/L	0.98	137.4	mg/L	0.98	0.71%
Cd 228.802†	5.6	0.00021	mg/L	0.000233	0.00021	mg/L	0.000233	111.81%
Co 228.616†	36.1	0.00110	mg/L	0.000042	0.00110	mg/L	0.000042	3.84%
Cr 267.716†	83.2	0.00929	mg/L	0.001061	0.00929	mg/L	0.001061	11.41%
Cu 324.752†	1066.4	0.00309	mg/L	0.000448	0.00309	mg/L	0.000448	14.51%
Fe 273.955†	153.1	0.1339	mg/L	0.00170	0.1339	mg/L	0.00170	1.27%
K 766.490†	15350.6	10.56	mg/L	0.133	10.56	mg/L	0.133	1.25%
Mg 279.077†	30441.1	32.42	mg/L	0.286	32.42	mg/L	0.286	0.88%
Mn 257.610†	3761.5	0.1190	mg/L	0.00053	0.1190	mg/L	0.00053	0.45%
Mo 202.031†	119.2	0.00456	mg/L	0.000282	0.00456	mg/L	0.000282	6.19%
Na 589.592†	475049.4	40.03	mg/L	0.226	40.03	mg/L	0.226	0.57%
Na 330.237†	1201.3	42.10	mg/L	0.733	42.10	mg/L	0.733	1.74%
Ni 231.604†	17.2	0.01060	mg/L	0.001240	0.01060	mg/L	0.001240	11.69%
Pb 220.353†	-56.2	-0.00812	mg/L	0.001064	-0.00812	mg/L	0.001064	13.12%
Sb 206.836†	18.1	0.00641	mg/L	0.002750	0.00641	mg/L	0.002750	42.89%
Se 196.026†	64.8	0.04509	mg/L	0.003819	0.04509	mg/L	0.003819	8.47%
Si 288.158†	33621.6	22.77	mg/L	0.205	22.77	mg/L	0.205	0.90%
Sn 189.927†	-56.3	-0.00894	mg/L	0.000707	-0.00894	mg/L	0.000707	7.91%
Sr 421.552†	343866.8	0.5438	mg/L	0.00415	0.5438	mg/L	0.00415	0.76%
Ti 334.903†	213.9	0.00117	mg/L	0.000310	0.00117	mg/L	0.000310	26.59%
Tl 190.801†	28.3	0.01661	mg/L	0.000590	0.01661	mg/L	0.000590	3.55%
V 292.402†	361.5	0.00375	mg/L	0.000076	0.00375	mg/L	0.000076	2.03%
Zn 206.200†	72.0	0.1162	mg/L	0.00534	0.1162	mg/L	0.00534	4.60%

Sequence No.: 8
Sample ID: RG30 A TWC
Analyst: ALA
Dilution: 1X

Autosampler Location: 319
Date Collected: 8/6/2010 11:22:51 AM
Data Type: Original

Nebulizer Parameters: RG30 A TWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG30 A TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1890477.9	99.41	%	0.550				0.55%
ScR 361.383	288515.3	98.58	%	0.131				0.13%
Ag 328.068†	-1.7	-0.00003	mg/L	0.000176	-0.00003	mg/L	0.000176	576.24%
Al 308.215†	102.4	0.08065	mg/L	0.001335	0.08065	mg/L	0.001335	1.66%
As 188.979†	24.8	0.01398	mg/L	0.001159	0.01398	mg/L	0.001159	8.29%
B 249.677†	418.9	0.1266	mg/L	0.00095	0.1266	mg/L	0.00095	0.75%
Ba 233.527†	1382.4	0.4135	mg/L	0.00069	0.4135	mg/L	0.00069	0.17%
Be 313.042†	13.5	0.00002	mg/L	0.000015	0.00002	mg/L	0.000015	66.10%
Ca 317.933†	1999500.8	137.7	mg/L	0.35	137.7	mg/L	0.35	0.25%
Cd 228.802†	2.9	0.00008	mg/L	0.000234	0.00008	mg/L	0.000234	285.21%
Co 228.616†	38.8	0.00119	mg/L	0.000179	0.00119	mg/L	0.000179	15.03%
Cr 267.716†	82.6	0.00921	mg/L	0.000457	0.00921	mg/L	0.000457	4.96%
Cu 324.752†	1219.0	0.00364	mg/L	0.000325	0.00364	mg/L	0.000325	8.93%
Fe 273.955†	148.2	0.1296	mg/L	0.00173	0.1296	mg/L	0.00173	1.33%
K 766.490†	15219.8	10.47	mg/L	0.034	10.47	mg/L	0.034	0.33%
Mg 279.077†	30178.5	32.14	mg/L	0.033	32.14	mg/L	0.033	0.10%
Mn 257.610†	3386.1	0.1071	mg/L	0.00045	0.1071	mg/L	0.00045	0.42%
Mo 202.031†	126.9	0.00500	mg/L	0.000415	0.00500	mg/L	0.000415	8.30%
Na 589.592†	476333.2	40.14	mg/L	0.064	40.14	mg/L	0.064	0.16%
Na 330.237†	1172.3	41.10	mg/L	0.129	41.10	mg/L	0.129	0.31%
Ni 231.604†	19.4	0.01197	mg/L	0.001870	0.01197	mg/L	0.001870	15.62%
Pb 220.353†	-55.6	-0.00804	mg/L	0.001026	-0.00804	mg/L	0.001026	12.77%
Sb 206.836†	16.8	0.00594	mg/L	0.000881	0.00594	mg/L	0.000881	14.83%
Se 196.026†	61.0	0.04188	mg/L	0.005476	0.04188	mg/L	0.005476	13.08%
Si 288.158†	31944.2	21.63	mg/L	0.039	21.63	mg/L	0.039	0.18%
Sn 189.927†	-57.1	-0.00915	mg/L	0.000717	-0.00915	mg/L	0.000717	7.84%
Sr 421.552†	345649.0	0.5466	mg/L	0.00230	0.5466	mg/L	0.00230	0.42%
Ti 334.903†	232.5	0.00199	mg/L	0.000133	0.00199	mg/L	0.000133	6.69%
Tl 190.801†	27.8	0.01628	mg/L	0.002405	0.01628	mg/L	0.002405	14.78%
V 292.402†	384.6	0.00398	mg/L	0.000238	0.00398	mg/L	0.000238	5.99%
Zn 206.200†	71.8	0.1158	mg/L	0.00536	0.1158	mg/L	0.00536	4.63%

Sequence No.: 9
Sample ID: RG30 ASPK TWC
Analyst: ALA
Dilution: 1X

Autosampler Location: 320
Date Collected: 8/6/2010 11:27:03 AM
Data Type: Original

Nebulizer Parameters: RG30 ASPK TWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG30 ASPK TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1882937.6	99.01	%	0.302				0.30%
ScR 361.383	285206.5	97.45	%	0.340				0.35%
Ag 328.068†	94212.9	0.5439	mg/L	0.00434	0.5439	mg/L	0.00434	0.80%
Al 308.215†	2920.7	2.295	mg/L	0.0055	2.295	mg/L	0.0055	0.24%
As 188.979†	3034.1	2.194	mg/L	0.0058	2.194	mg/L	0.0058	0.26%
B 249.677†	423.7	0.1267	mg/L	0.00133	0.1267	mg/L	0.00133	1.05%
Ba 233.527†	8095.8	2.427	mg/L	0.0113	2.427	mg/L	0.0113	0.47%
Be 313.042†	282722.2	0.5142	mg/L	0.00268	0.5142	mg/L	0.00268	0.52%
Ca 317.933†	2179740.1	150.1	mg/L	0.63	150.1	mg/L	0.63	0.42%
Cd 228.802†	11441.9	0.5292	mg/L	0.00174	0.5292	mg/L	0.00174	0.33%
Co 228.616†	14999.1	0.4972	mg/L	0.00182	0.4972	mg/L	0.00182	0.37%
Cr 267.716†	2677.0	0.5124	mg/L	0.00253	0.5124	mg/L	0.00253	0.49%
Cu 324.752†	149644.5	0.5360	mg/L	0.00490	0.5360	mg/L	0.00490	0.91%
Fe 273.955†	2659.7	2.323	mg/L	0.0089	2.323	mg/L	0.0089	0.38%
K 766.490†	31158.1	21.44	mg/L	0.171	21.44	mg/L	0.171	0.80%
Mg 279.077†	40906.8	43.57	mg/L	0.217	43.57	mg/L	0.217	0.50%
Mn 257.610†	19017.1	0.6036	mg/L	0.00360	0.6036	mg/L	0.00360	0.60%
Mo 202.031†	130.8	0.00501	mg/L	0.000463	0.00501	mg/L	0.000463	9.24%
Na 589.592†	606915.5	51.14	mg/L	0.256	51.14	mg/L	0.256	0.50%
Na 330.237†	1529.3	53.33	mg/L	0.150	53.33	mg/L	0.150	0.28%
Ni 231.604†	842.3	0.5203	mg/L	0.00404	0.5203	mg/L	0.00404	0.78%
Pb 220.353†	14026.9	2.034	mg/L	0.0140	2.034	mg/L	0.0140	0.69%
Sb 206.836†	27.0	0.00618	mg/L	0.002049	0.00618	mg/L	0.002049	33.13%
Se 196.026†	2636.7	2.205	mg/L	0.0120	2.205	mg/L	0.0120	0.54%
Si 288.158†	31719.8	21.48	mg/L	0.101	21.48	mg/L	0.101	0.47%
Sn 189.927†	-62.7	-0.01010	mg/L	0.000790	-0.01010	mg/L	0.000790	7.82%
Sr 421.552†	683046.2	1.080	mg/L	0.0094	1.080	mg/L	0.0094	0.87%
Ti 334.903†	250.8	0.00196	mg/L	0.000365	0.00196	mg/L	0.000365	18.63%
Tl 190.801†	3617.7	2.102	mg/L	0.0110	2.102	mg/L	0.0110	0.52%
V 292.402†	51531.0	0.5260	mg/L	0.00481	0.5260	mg/L	0.00481	0.91%
Zn 206.200†	392.2	0.6325	mg/L	0.00951	0.6325	mg/L	0.00951	1.50%

Sequence No.: 10
Sample ID: RG30 MB1SPK TWC
Analyst: ALA
Dilution: 1X

Autosampler Location: 321
Date Collected: 8/6/2010 11:31:15 AM
Data Type: Original

Nebulizer Parameters: RG30 MB1SPK TWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG30 MB1SPK TWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1920114.0	101.0	%	0.59				0.59%
ScR 361.383	296714.4	101.4	%	0.59				0.59%
Ag 328.068†	90837.1	0.5244	mg/L	0.00282	0.5244	mg/L	0.00282	0.54%
Al 308.215†	2646.6	2.079	mg/L	0.0039	2.079	mg/L	0.0039	0.19%
As 188.979†	2869.6	2.079	mg/L	0.0200	2.079	mg/L	0.0200	0.96%
B 249.677†	-5.0	-0.00278	mg/L	0.001174	-0.00278	mg/L	0.001174	42.15%
Ba 233.527†	6454.5	1.936	mg/L	0.0132	1.936	mg/L	0.0132	0.68%
Be 313.042†	272778.9	0.4961	mg/L	0.00029	0.4961	mg/L	0.00029	0.06%
Ca 317.933†	145477.2	10.02	mg/L	0.016	10.02	mg/L	0.016	0.16%
Cd 228.802†	11153.2	0.5161	mg/L	0.00476	0.5161	mg/L	0.00476	0.92%
Co 228.616†	15150.6	0.5024	mg/L	0.00435	0.5024	mg/L	0.00435	0.87%
Cr 267.716†	2511.6	0.4873	mg/L	0.00212	0.4873	mg/L	0.00212	0.43%
Cu 324.752†	141736.5	0.5084	mg/L	0.00274	0.5084	mg/L	0.00274	0.54%
Fe 273.955†	2400.2	2.096	mg/L	0.0100	2.096	mg/L	0.0100	0.48%
K 766.490†	14781.2	10.17	mg/L	0.041	10.17	mg/L	0.041	0.40%
Mg 279.077†	9471.9	10.09	mg/L	0.023	10.09	mg/L	0.023	0.23%
Mn 257.610†	14602.3	0.4639	mg/L	0.00237	0.4639	mg/L	0.00237	0.51%
Mo 202.031†	22.4	0.00113	mg/L	0.000212	0.00113	mg/L	0.000212	18.83%
Na 589.592†	117733.8	9.921	mg/L	0.0256	9.921	mg/L	0.0256	0.26%
Na 330.237†	315.0	10.77	mg/L	0.109	10.77	mg/L	0.109	1.01%
Ni 231.604†	812.8	0.5020	mg/L	0.00443	0.5020	mg/L	0.00443	0.88%
Pb 220.353†	14288.0	2.072	mg/L	0.0191	2.072	mg/L	0.0191	0.92%
Sb 206.836†	12.9	0.00138	mg/L	0.001607	0.00138	mg/L	0.001607	116.33%
Se 196.026†	2468.0	2.072	mg/L	0.0183	2.072	mg/L	0.0183	0.88%
Si 288.158†	80.2	0.05615	mg/L	0.019761	0.05615	mg/L	0.019761	35.19%
Sn 189.927†	-7.0	-0.00145	mg/L	0.000475	-0.00145	mg/L	0.000475	32.84%
Sr 421.552†	320350.8	0.5066	mg/L	0.00126	0.5066	mg/L	0.00126	0.25%
Ti 334.903†	14.1	-0.00007	mg/L	0.000413	-0.00007	mg/L	0.000413	557.48%
Tl 190.801†	3565.0	2.071	mg/L	0.0123	2.071	mg/L	0.0123	0.59%
V 292.402†	49997.1	0.5103	mg/L	0.00183	0.5103	mg/L	0.00183	0.36%
Zn 206.200†	310.5	0.5007	mg/L	0.00127	0.5007	mg/L	0.00127	0.25%

Sequence No.: 11
Sample ID: CV
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 11:35:26 AM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1927229.0	101.3	%	0.87				0.86%
ScR 361.383	292127.1	99.81	%	1.239				1.24%
Ag 328.068†	181866.3	1.050	mg/L	0.0073	1.050	mg/L	0.0073	0.69%
Al 308.215†	2735.0	2.126	mg/L	0.0248	2.126	mg/L	0.0248	1.17%
As 188.979†	2877.8	2.102	mg/L	0.0209	2.102	mg/L	0.0209	0.99%
B 249.677†	3368.8	1.016	mg/L	0.0139	1.016	mg/L	0.0139	1.37%
Ba 233.527†	3274.0	0.9814	mg/L	0.01376	0.9814	mg/L	0.01376	1.40%
Be 313.042†	548462.7	0.9976	mg/L	0.00966	0.9976	mg/L	0.00966	0.97%
Ca 317.933†	31037.5	2.138	mg/L	0.0291	2.138	mg/L	0.0291	1.36%
Cd 228.802†	22398.8	1.043	mg/L	0.0110	1.043	mg/L	0.0110	1.05%
Co 228.616†	30606.6	1.014	mg/L	0.0109	1.014	mg/L	0.0109	1.08%
Cr 267.716†	5094.0	0.9908	mg/L	0.01587	0.9908	mg/L	0.01587	1.60%
Cu 324.752†	291088.8	1.043	mg/L	0.0066	1.043	mg/L	0.0066	0.64%
Fe 273.955†	2384.5	2.080	mg/L	0.0255	2.080	mg/L	0.0255	1.23%
K 766.490†	30157.9	20.75	mg/L	0.056	20.75	mg/L	0.056	0.27%
Mg 279.077†	1970.5	2.105	mg/L	0.0364	2.105	mg/L	0.0364	1.73%
Mn 257.610†	30032.1	0.9535	mg/L	0.01080	0.9535	mg/L	0.01080	1.13%
Mo 202.031†	17729.9	1.031	mg/L	0.0105	1.031	mg/L	0.0105	1.02%
Na 589.592†	596775.7	50.29	mg/L	0.497	50.29	mg/L	0.497	0.99%
Na 330.237†	1554.3	53.49	mg/L	1.067	53.49	mg/L	1.067	1.99%
Ni 231.604†	1670.1	1.033	mg/L	0.0119	1.033	mg/L	0.0119	1.16%
Pb 220.353†	14380.9	2.086	mg/L	0.0236	2.086	mg/L	0.0236	1.13%
Sb 206.836†	5741.6	2.145	mg/L	0.0258	2.145	mg/L	0.0258	1.20%
Se 196.026†	2514.0	2.111	mg/L	0.0213	2.111	mg/L	0.0213	1.01%
Si 288.158†	3266.1	2.215	mg/L	0.0241	2.215	mg/L	0.0241	1.09%
Sn 189.927†	3836.3	1.045	mg/L	0.0098	1.045	mg/L	0.0098	0.94%
Sr 421.552†	649413.3	1.027	mg/L	0.0022	1.027	mg/L	0.0022	0.21%
Ti 334.903†	22709.9	1.033	mg/L	0.0141	1.033	mg/L	0.0141	1.37%
Tl 190.801†	3568.3	2.075	mg/L	0.0239	2.075	mg/L	0.0239	1.15%
V 292.402†	100016.6	1.021	mg/L	0.0059	1.021	mg/L	0.0059	0.58%
Zn 206.200†	640.0	1.032	mg/L	0.0155	1.032	mg/L	0.0155	1.50%

Sequence No.: 12
Sample ID: CB
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 11:39:39 AM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1935242.1	101.8	%	0.73				0.72%
ScR 361.383	277577.8	94.84	%	0.280				0.30%
Ag 328.068†	-5.5	-0.00003	mg/L	0.000083	-0.00003	mg/L	0.000083	262.61%
Al 308.215†	-6.5	-0.00514	mg/L	0.001615	-0.00514	mg/L	0.001615	31.42%
As 188.979†	0.8	0.00057	mg/L	0.001529	0.00057	mg/L	0.001529	266.94%
B 249.677†	-1.3	-0.00039	mg/L	0.001785	-0.00039	mg/L	0.001785	461.46%
Ba 233.527†	4.8	0.00145	mg/L	0.000990	0.00145	mg/L	0.000990	68.16%
Be 313.042†	91.9	0.00017	mg/L	0.000057	0.00017	mg/L	0.000057	33.86%
Ca 317.933†	11.0	0.00076	mg/L	0.000463	0.00076	mg/L	0.000463	61.09%
Cd 228.802†	2.2	0.00010	mg/L	0.000142	0.00010	mg/L	0.000142	139.01%
Co 228.616†	4.9	0.00016	mg/L	0.000115	0.00016	mg/L	0.000115	70.94%
Cr 267.716†	-1.4	-0.00026	mg/L	0.001017	-0.00026	mg/L	0.001017	386.71%
Cu 324.752†	149.5	0.00054	mg/L	0.000297	0.00054	mg/L	0.000297	55.41%
Fe 273.955†	0.7	0.00064	mg/L	0.003288	0.00064	mg/L	0.003288	515.24%
K 766.490†	89.5	0.06156	mg/L	0.027133	0.06156	mg/L	0.027133	44.08%
Mg 279.077†	-3.3	-0.00352	mg/L	0.001964	-0.00352	mg/L	0.001964	55.76%
Mn 257.610†	-1.7	-0.00005	mg/L	0.000052	-0.00005	mg/L	0.000052	95.88%
Mo 202.031†	0.7	0.00004	mg/L	0.000236	0.00004	mg/L	0.000236	617.34%
Na 589.592†	93.2	0.00785	mg/L	0.003526	0.00785	mg/L	0.003526	44.92%
Na 330.237†	-1.3	-0.04371	mg/L	0.189833	-0.04371	mg/L	0.189833	434.26%
Ni 231.604†	4.6	0.00283	mg/L	0.000364	0.00283	mg/L	0.000364	12.89%
Pb 220.353†	-2.9	-0.00042	mg/L	0.000559	-0.00042	mg/L	0.000559	134.02%
Sb 206.836†	4.9	0.00184	mg/L	0.001181	0.00184	mg/L	0.001181	64.29%
Se 196.026†	0.6	0.00054	mg/L	0.002971	0.00054	mg/L	0.002971	545.37%
Si 288.158†	32.2	0.02180	mg/L	0.004344	0.02180	mg/L	0.004344	19.93%
Sn 189.927†	2.8	0.00076	mg/L	0.000636	0.00076	mg/L	0.000636	83.97%
Sr 421.552†	43.5	0.00007	mg/L	0.000112	0.00007	mg/L	0.000112	162.42%
Ti 334.903†	-0.1	-0.00001	mg/L	0.000492	-0.00001	mg/L	0.000492	>999.9%
Tl 190.801†	2.6	0.00151	mg/L	0.000633	0.00151	mg/L	0.000633	41.95%
V 292.402†	2.3	0.00002	mg/L	0.000155	0.00002	mg/L	0.000155	701.58%
Zn 206.200†	0.1	0.00016	mg/L	0.003070	0.00016	mg/L	0.003070	>999.9%

Sequence No.: 13
Sample ID: RF71 MB1 SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 304
Date Collected: 8/6/2010 11:43:35 AM
Data Type: Original

Nebulizer Parameters: RF71 MB1 SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RF71 MB1 SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1930856.3	101.5	%	1.51				1.48%
ScR 361.383	294341.3	100.6	%	2.39				2.38%
Ag 328.068†	18.5	0.00011	mg/L	0.000332	0.00021	mg/L	0.000664	310.59%
Al 308.215†	6.6	0.00522	mg/L	0.004598	0.01044	mg/L	0.009196	88.13%
As 188.979†	1.6	0.00115	mg/L	0.003047	0.00230	mg/L	0.006094	265.05%
B 249.677†	-6.5	-0.00195	mg/L	0.000605	-0.00390	mg/L	0.001210	31.05%
Ba 233.527†	3.5	0.00103	mg/L	0.000191	0.00207	mg/L	0.000382	18.45%
Be 313.042†	18.9	0.00003	mg/L	0.000064	0.00007	mg/L	0.000127	185.21%
Ca 317.933†	198.0	0.01364	mg/L	0.002249	0.02727	mg/L	0.004497	16.49%
Cd 228.802†	0.5	0.00002	mg/L	0.000247	0.00004	mg/L	0.000494	>999.9%
Co 228.616†	-1.3	-0.00005	mg/L	0.000165	-0.00009	mg/L	0.000330	362.13%
Cr 267.716†	2.6	0.00050	mg/L	0.000724	0.00100	mg/L	0.001448	144.59%
Cu 324.752†	212.7	0.00076	mg/L	0.000240	0.00152	mg/L	0.000480	31.50%
Fe 273.955†	-0.3	-0.00024	mg/L	0.002398	-0.00047	mg/L	0.004795	>999.9%
K 766.490†	28.9	0.01987	mg/L	0.011694	0.03975	mg/L	0.023388	58.84%
Mg 279.077†	8.9	0.00946	mg/L	0.000841	0.01892	mg/L	0.001681	8.88%
Mn 257.610†	-2.5	-0.00008	mg/L	0.000060	-0.00016	mg/L	0.000119	75.22%
Mo 202.031†	-0.0	0.00000	mg/L	0.000315	-0.00001	mg/L	0.000631	>999.9%
Na 589.592†	75.3	0.00635	mg/L	0.004026	0.01270	mg/L	0.008051	63.41%
Na 330.237†	-1.4	-0.04929	mg/L	0.246166	-0.09859	mg/L	0.492333	499.40%
Ni 231.604†	6.8	0.00418	mg/L	0.001147	0.00837	mg/L	0.002294	27.42%
Pb 220.353†	0.1	0.00001	mg/L	0.000547	0.00003	mg/L	0.001094	>999.9%
Sb 206.836†	0.6	0.00025	mg/L	0.002819	0.00050	mg/L	0.005639	>999.9%
Se 196.026†	7.1	0.00598	mg/L	0.002433	0.01196	mg/L	0.004867	40.70%
Si 288.158†	25.8	0.01748	mg/L	0.002732	0.03496	mg/L	0.005464	15.63%
Sn 189.927†	4.1	0.00112	mg/L	0.000406	0.00224	mg/L	0.000813	36.35%
Sr 421.552†	-0.9	0.00000	mg/L	0.000018	0.00000	mg/L	0.000036	>999.9%
Ti 334.903†	24.4	0.00111	mg/L	0.000844	0.00222	mg/L	0.001689	75.94%
Tl 190.801†	2.6	0.00150	mg/L	0.002423	0.00301	mg/L	0.004846	161.23%
V 292.402†	11.8	0.00012	mg/L	0.000214	0.00024	mg/L	0.000427	176.71%
Zn 206.200†	-0.4	-0.00064	mg/L	0.001942	-0.00128	mg/L	0.003884	302.92%

Sequence No.: 14
Sample ID: RG11 MB1 SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 305
Date Collected: 8/6/2010 11:47:47 AM
Data Type: Original

Nebulizer Parameters: RG11 MB1 SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG11 MB1 SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1945686.8	102.3	%	0.49				0.48%
ScR 361.383	276052.4	94.32	%	0.327				0.35%
Ag 328.068†	22.8	0.00013	mg/L	0.000321	0.00026	mg/L	0.000641	243.63%
Al 308.215†	-3.2	-0.00255	mg/L	0.000838	-0.00510	mg/L	0.001677	32.88%
As 188.979†	-2.5	-0.00178	mg/L	0.001661	-0.00356	mg/L	0.003322	93.38%
B 249.677†	-12.9	-0.00389	mg/L	0.000160	-0.00777	mg/L	0.000320	4.12%
Ba 233.527†	1.5	0.00045	mg/L	0.000863	0.00089	mg/L	0.001726	193.08%
Be 313.042†	58.5	0.00011	mg/L	0.000028	0.00021	mg/L	0.000056	26.41%
Ca 317.933†	156.4	0.01077	mg/L	0.000134	0.02154	mg/L	0.000268	1.25%
Cd 228.802†	-2.5	-0.00011	mg/L	0.000169	-0.00022	mg/L	0.000338	154.15%
Co 228.616†	-3.3	-0.00011	mg/L	0.000181	-0.00022	mg/L	0.000361	163.99%
Cr 267.716†	2.2	0.00043	mg/L	0.001366	0.00086	mg/L	0.002733	318.08%
Cu 324.752†	129.8	0.00047	mg/L	0.000261	0.00093	mg/L	0.000522	56.06%
Fe 273.955†	0.7	0.00061	mg/L	0.003538	0.00122	mg/L	0.007076	581.31%
K 766.490†	80.5	0.05540	mg/L	0.031287	0.1108	mg/L	0.06257	56.47%
Mg 279.077†	0.9	0.00093	mg/L	0.003559	0.00186	mg/L	0.007117	381.84%
Mn 257.610†	-1.0	-0.00003	mg/L	0.000084	-0.00006	mg/L	0.000168	276.31%
Mo 202.031†	-1.3	-0.00008	mg/L	0.000269	-0.00015	mg/L	0.000538	349.24%
Na 589.592†	44.9	0.00378	mg/L	0.003732	0.00757	mg/L	0.007464	98.61%
Na 330.237†	-12.8	-0.4403	mg/L	0.38070	-0.8806	mg/L	0.76140	86.46%
Ni 231.604†	4.1	0.00255	mg/L	0.003254	0.00511	mg/L	0.006509	127.38%
Pb 220.353†	-0.8	-0.00011	mg/L	0.000971	-0.00023	mg/L	0.001942	852.11%
Sb 206.836†	-3.8	-0.00139	mg/L	0.000717	-0.00279	mg/L	0.001435	51.45%
Se 196.026†	3.7	0.00311	mg/L	0.005111	0.00623	mg/L	0.010222	164.18%
Si 288.158†	20.8	0.01410	mg/L	0.007360	0.02821	mg/L	0.014720	52.19%
Sn 189.927†	2.8	0.00075	mg/L	0.000352	0.00150	mg/L	0.000705	46.88%
Sr 421.552†	27.2	0.00004	mg/L	0.000071	0.00009	mg/L	0.000141	163.92%
Ti 334.903†	1.4	0.00006	mg/L	0.000450	0.00012	mg/L	0.000899	738.87%
Tl 190.801†	4.5	0.00262	mg/L	0.002572	0.00524	mg/L	0.005143	98.21%
V 292.402†	-15.1	-0.00015	mg/L	0.000503	-0.00030	mg/L	0.001007	330.98%
Zn 206.200†	1.9	0.00303	mg/L	0.001717	0.00607	mg/L	0.003434	56.59%

Sequence No.: 15
Sample ID: RG11 A SWC
Analyst: ALA
Dilution: 5X

Autosampler Location: 306
Date Collected: 8/6/2010 11:51:43 AM
Data Type: Original

Nebulizer Parameters: RG11 A SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG11 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1965228.8	103.3	%	0.99				0.96%
ScR 361.383	301199.1	102.9	%	1.58				1.54%
Ag 328.068†	126.8	0.00058	mg/L	0.000118	0.00289	mg/L	0.000592	20.49%
Al 308.215†	50513.5	39.84	mg/L	0.720	199.2	mg/L	3.60	1.81%
As 188.979†	-45.5	0.01962	mg/L	0.004217	0.09808	mg/L	0.021083	21.50%
B 249.677†	138.4	0.04184	mg/L	0.001239	0.2092	mg/L	0.00620	2.96%
Ba 233.527†	988.1	0.2856	mg/L	0.00468	1.428	mg/L	0.0234	1.64%
Be 313.042†	298.5	0.00041	mg/L	0.000040	0.00207	mg/L	0.000198	9.58%
Ca 317.933†	456985.0	31.47	mg/L	0.501	157.4	mg/L	2.51	1.59%
Cd 228.802†	9.5	0.00270	mg/L	0.000067	0.01349	mg/L	0.000337	2.50%
Co 228.616†	2183.9	0.06521	mg/L	0.001153	0.3260	mg/L	0.00576	1.77%
Cr 267.716†	14717.5	2.866	mg/L	0.0613	14.33	mg/L	0.307	2.14%
Cu 324.752†	1241346.7	4.458	mg/L	0.0608	22.29	mg/L	0.304	1.36%
Fe 273.955†	125770.9	110.0	mg/L	1.94	550.0	mg/L	9.69	1.76%
K 766.490†	3195.1	2.199	mg/L	0.0296	10.99	mg/L	0.148	1.34%
Mg 279.077†	20155.2	21.42	mg/L	0.425	107.1	mg/L	2.13	1.99%
Mn 257.610†	43397.6	1.377	mg/L	0.0272	6.887	mg/L	0.1360	1.97%
Mo 202.031†	4446.6	0.2581	mg/L	0.00329	1.291	mg/L	0.0165	1.27%
Na 589.592†	15814.7	1.333	mg/L	0.0251	6.663	mg/L	0.1257	1.89%
Na 330.237†	12.0	1.241	mg/L	0.1208	6.205	mg/L	0.6042	9.74%
Ni 231.604†	5354.1	3.307	mg/L	0.0546	16.53	mg/L	0.273	1.65%
Pb 220.353†	930.7	0.1341	mg/L	0.00142	0.6703	mg/L	0.00712	1.06%
Sb 206.836†	96.4	0.01148	mg/L	0.000426	0.05739	mg/L	0.002128	3.71%
Se 196.026†	29.7	0.02278	mg/L	0.003318	0.1139	mg/L	0.01659	14.56%
Si 288.158†	1411.9	0.9560	mg/L	0.01663	4.780	mg/L	0.0831	1.74%
Sn 189.927†	62.9	0.02002	mg/L	0.000878	0.1001	mg/L	0.00439	4.38%
Sr 421.552†	74377.5	0.1176	mg/L	0.00225	0.5881	mg/L	0.01123	1.91%
Ti 334.903†	69041.2	3.141	mg/L	0.0558	15.71	mg/L	0.279	1.78%
Tl 190.801†	-18.7	0.00645	mg/L	0.000723	0.03227	mg/L	0.003617	11.21%
V 292.402†	17957.4	0.1813	mg/L	0.00132	0.9065	mg/L	0.00658	0.73%
Zn 206.200†	590.1	0.9498	mg/L	0.01146	4.749	mg/L	0.0573	1.21%

Sequence No.: 16
Sample ID: RF71 ADUP SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 307
Date Collected: 8/6/2010 11:55:40 AM
Data Type: Original

Nebulizer Parameters: RF71 ADUP SWC

Analyte	Back Pressure	Flow
A11	200.0 kPa	0.75 L/min

Mean Data: RF71 ADUP SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1965799.5	103.4	%	0.39				0.38%
ScR 361.383	301290.6	102.9	%	0.71				0.69%
Ag 328.068†	44.9	0.00015	mg/L	0.000355	0.00029	mg/L	0.000711	241.50%
Al 308.215†	146723.6	115.7	mg/L	0.90	231.5	mg/L	1.79	0.78%
As 188.979†	-54.9	0.05757	mg/L	0.002747	0.1151	mg/L	0.00549	4.77%
B 249.677†	230.9	0.06957	mg/L	0.000947	0.1391	mg/L	0.00189	1.36%
Ba 233.527†	1003.7	0.2848	mg/L	0.00229	0.5695	mg/L	0.00458	0.80%
Be 313.042†	1042.6	0.00166	mg/L	0.000055	0.00331	mg/L	0.000110	3.32%
Ca 317.933†	439281.8	30.25	mg/L	0.245	60.51	mg/L	0.490	0.81%
Cd 228.802†	87.7	0.00442	mg/L	0.000047	0.00884	mg/L	0.000095	1.08%
Co 228.616†	2382.3	0.06763	mg/L	0.000671	0.1353	mg/L	0.00134	0.99%
Cr 267.716†	1369.7	0.2663	mg/L	0.00234	0.5326	mg/L	0.00468	0.88%
Cu 324.752†	90685.3	0.3343	mg/L	0.00383	0.6685	mg/L	0.00767	1.15%
Fe 273.955†	197419.3	172.7	mg/L	0.89	345.3	mg/L	1.78	0.52%
K 766.490†	14412.9	9.918	mg/L	0.0260	19.84	mg/L	0.052	0.26%
Mg 279.077†	55433.9	58.97	mg/L	0.254	117.9	mg/L	0.51	0.43%
Mn 257.610†	61123.6	1.940	mg/L	0.0155	3.880	mg/L	0.0310	0.80%
Mo 202.031†	189.5	0.01050	mg/L	0.000228	0.02100	mg/L	0.000456	2.17%
Na 589.592†	198536.5	16.73	mg/L	0.132	33.46	mg/L	0.264	0.79%
Na 330.237†	465.2	17.53	mg/L	0.310	35.06	mg/L	0.620	1.77%
Ni 231.604†	454.6	0.2808	mg/L	0.00313	0.5615	mg/L	0.00627	1.12%
Pb 220.353†	946.5	0.1449	mg/L	0.00084	0.2897	mg/L	0.00168	0.58%
Sb 206.836†	25.5	0.01491	mg/L	0.000969	0.02981	mg/L	0.001937	6.50%
Se 196.026†	32.5	0.02527	mg/L	0.005243	0.05053	mg/L	0.010486	20.75%
Si 288.158†	11300.5	7.652	mg/L	0.0644	15.30	mg/L	0.129	0.84%
Sn 189.927†	9.5	0.00648	mg/L	0.001192	0.01297	mg/L	0.002384	18.38%
Sr 421.552†	161675.1	0.2557	mg/L	0.00079	0.5113	mg/L	0.00159	0.31%
Ti 334.903†	119521.9	5.441	mg/L	0.0333	10.88	mg/L	0.067	0.61%
Tl 190.801†	-33.9	0.00733	mg/L	0.002841	0.01465	mg/L	0.005683	38.78%
V 292.402†	34359.5	0.3291	mg/L	0.00173	0.6583	mg/L	0.00346	0.53%
Zn 206.200†	378.5	0.6071	mg/L	0.00536	1.214	mg/L	0.0107	0.88%

Sequence No.: 17
Sample ID: RF71 A SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 308
Date Collected: 8/6/2010 11:59:36 AM
Data Type: Original

Nebulizer Parameters: RF71 A SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RF71 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1951269.6	102.6	%	1.56				1.52%
ScR 361.383	304525.1	104.0	%	0.51				0.49%
Ag 328.068†	99.9	0.00049	mg/L	0.000351	0.00098	mg/L	0.000702	71.72%
Al 308.215†	155423.3	122.6	mg/L	1.02	245.2	mg/L	2.05	0.84%
As 188.979†	-67.4	0.05807	mg/L	0.006236	0.1161	mg/L	0.01247	10.74%
B 249.677†	265.4	0.07997	mg/L	0.001479	0.1599	mg/L	0.00296	1.85%
Ba 233.527†	1062.5	0.3017	mg/L	0.00211	0.6034	mg/L	0.00422	0.70%
Be 313.042†	1376.0	0.00223	mg/L	0.000035	0.00447	mg/L	0.000069	1.55%
Ca 317.933†	471352.8	32.46	mg/L	0.297	64.92	mg/L	0.594	0.92%
Cd 228.802†	109.1	0.00546	mg/L	0.000334	0.01092	mg/L	0.000669	6.13%
Co 228.616†	2591.8	0.07359	mg/L	0.001465	0.1472	mg/L	0.00293	1.99%
Cr 267.716†	1470.0	0.2856	mg/L	0.00184	0.5712	mg/L	0.00367	0.64%
Cu 324.752†	94601.0	0.3485	mg/L	0.00243	0.6971	mg/L	0.00487	0.70%
Fe 273.955†	205677.9	179.9	mg/L	1.76	359.8	mg/L	3.52	0.98%
K 766.490†	15050.8	10.36	mg/L	0.084	20.71	mg/L	0.169	0.81%
Mg 279.077†	59157.0	62.94	mg/L	0.607	125.9	mg/L	1.21	0.96%
Mn 257.610†	61771.7	1.960	mg/L	0.0190	3.921	mg/L	0.0381	0.97%
Mo 202.031†	208.2	0.01155	mg/L	0.000034	0.02310	mg/L	0.000068	0.30%
Na 589.592†	203278.3	17.13	mg/L	0.141	34.26	mg/L	0.281	0.82%
Na 330.237†	474.2	17.99	mg/L	0.103	35.98	mg/L	0.206	0.57%
Ni 231.604†	474.4	0.2930	mg/L	0.00290	0.5860	mg/L	0.00581	0.99%
Pb 220.353†	1020.6	0.1563	mg/L	0.00242	0.3126	mg/L	0.00484	1.55%
Sb 206.836†	47.4	0.02371	mg/L	0.005055	0.04743	mg/L	0.010110	21.32%
Se 196.026†	47.2	0.03743	mg/L	0.011463	0.07485	mg/L	0.022926	30.63%
Si 288.158†	11425.1	7.737	mg/L	0.0627	15.47	mg/L	0.125	0.81%
Sn 189.927†	19.5	0.00954	mg/L	0.000586	0.01909	mg/L	0.001172	6.14%
Sr 421.552†	169030.4	0.2673	mg/L	0.00306	0.5346	mg/L	0.00612	1.14%
Ti 334.903†	131243.0	5.975	mg/L	0.0545	11.95	mg/L	0.109	0.91%
Tl 190.801†	-35.8	0.00727	mg/L	0.004061	0.01454	mg/L	0.008123	55.88%
V 292.402†	38841.7	0.3737	mg/L	0.00172	0.7474	mg/L	0.00345	0.46%
Zn 206.200†	394.4	0.6327	mg/L	0.00978	1.265	mg/L	0.0196	1.55%

Sequence No.: 18
Sample ID: RF71 ASPK SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 309
Date Collected: 8/6/2010 12:03:32 PM
Data Type: Original

Nebulizer Parameters: RF71 ASPK SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RF71 ASPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1921574.6	101.0	%	0.85				0.84%
ScR 361.383	301838.7	103.1	%	0.28				0.27%
Ag 328.068†	87839.2	0.5070	mg/L	0.00381	1.014	mg/L	0.0076	0.75%
Al 308.215†	156663.8	123.6	mg/L	0.79	247.2	mg/L	1.58	0.64%
As 188.979†	2798.2	2.134	mg/L	0.0274	4.267	mg/L	0.0548	1.28%
B 249.677†	275.4	0.08176	mg/L	0.002280	0.1635	mg/L	0.00456	2.79%
Ba 233.527†	7392.3	2.200	mg/L	0.0021	4.400	mg/L	0.0041	0.09%
Be 313.042†	271853.9	0.4942	mg/L	0.00197	0.9884	mg/L	0.00393	0.40%
Ca 317.933†	634390.1	43.69	mg/L	0.141	87.38	mg/L	0.282	0.32%
Cd 228.802†	11470.9	0.5313	mg/L	0.00477	1.063	mg/L	0.0095	0.90%
Co 228.616†	17467.0	0.5669	mg/L	0.00528	1.134	mg/L	0.0106	0.93%
Cr 267.716†	3931.4	0.7633	mg/L	0.00324	1.527	mg/L	0.0065	0.42%
Cu 324.752†	235767.2	0.8548	mg/L	0.00824	1.710	mg/L	0.0165	0.96%
Fe 273.955†	205520.5	179.7	mg/L	0.58	359.5	mg/L	1.16	0.32%
K 766.490†	29597.1	20.37	mg/L	0.243	40.73	mg/L	0.485	1.19%
Mg 279.077†	66737.6	71.01	mg/L	0.240	142.0	mg/L	0.48	0.34%
Mn 257.610†	74257.5	2.357	mg/L	0.0045	4.714	mg/L	0.0091	0.19%
Mo 202.031†	226.3	0.01241	mg/L	0.000139	0.02482	mg/L	0.000279	1.12%
Na 589.592†	326351.1	27.50	mg/L	0.097	55.00	mg/L	0.194	0.35%
Na 330.237†	791.4	28.84	mg/L	0.084	57.68	mg/L	0.169	0.29%
Ni 231.604†	1242.2	0.7675	mg/L	0.00077	1.535	mg/L	0.0015	0.10%
Pb 220.353†	14929.9	2.173	mg/L	0.0200	4.347	mg/L	0.0400	0.92%
Sb 206.836†	1056.2	0.3960	mg/L	0.00637	0.7920	mg/L	0.01275	1.61%
Se 196.026†	2557.1	2.145	mg/L	0.0271	4.290	mg/L	0.0542	1.26%
Si 288.158†	11582.1	7.845	mg/L	0.0105	15.69	mg/L	0.021	0.13%
Sn 189.927†	0.8	0.00520	mg/L	0.000525	0.01039	mg/L	0.001050	10.10%
Sr 421.552†	493651.6	0.7807	mg/L	0.00505	1.561	mg/L	0.0101	0.65%
Ti 334.903†	130521.7	5.941	mg/L	0.0193	11.88	mg/L	0.039	0.33%
Tl 190.801†	3385.7	1.995	mg/L	0.0261	3.990	mg/L	0.0523	1.31%
V 292.402†	85384.5	0.8491	mg/L	0.00779	1.698	mg/L	0.0156	0.92%
Zn 206.200†	702.5	1.129	mg/L	0.0035	2.259	mg/L	0.0071	0.31%

Sequence No.: 19
Sample ID: ~~RF71 APOST SWC~~ ZZZZZZ
Analyst: ALA
Dilution: 2X

Autosampler Location: 310
Date Collected: 8/6/2010 12:07:15 PM
Data Type: Original

8-6-10

Nebulizer Parameters: RF71 APOST SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RF71 APOST SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1974501.7	103.8	%	1.41				1.36%
ScR 361.383	301567.4	103.0	%	0.93				0.90%
Ag 328.068†	698.8	0.00394	mg/L	0.000029	0.00789	mg/L	0.000058	0.74%
Al 308.215†	159018.3	125.4	mg/L	1.39	250.9	mg/L	2.77	1.10%
As 188.979†	-49.1	0.07356	mg/L	0.005336	0.1471	mg/L	0.01067	7.25%
B 249.677†	268.1	0.08077	mg/L	0.001926	0.1615	mg/L	0.00385	2.38%
Ba 233.527†	1130.4	0.3216	mg/L	0.00417	0.6433	mg/L	0.00834	1.30%
Be 313.042†	3145.4	0.00545	mg/L	0.000070	0.01090	mg/L	0.000139	1.28%
Ca 317.933†	482608.9	33.24	mg/L	0.396	66.47	mg/L	0.792	1.19%
Cd 228.802†	177.7	0.00864	mg/L	0.000165	0.01727	mg/L	0.000329	1.91%
Co 228.616†	2704.7	0.07706	mg/L	0.001367	0.1541	mg/L	0.00273	1.77%
Cr 267.716†	1522.7	0.2959	mg/L	0.00339	0.5918	mg/L	0.00678	1.15%
Cu 324.752†	95444.3	0.3518	mg/L	0.00355	0.7036	mg/L	0.00709	1.01%
Fe 273.955†	210875.6	184.4	mg/L	2.29	368.8	mg/L	4.58	1.24%
K 766.490†	15533.5	10.69	mg/L	0.091	21.38	mg/L	0.183	0.85%
Mg 279.077†	60515.2	64.38	mg/L	0.659	128.8	mg/L	1.32	1.02%
Mn 257.610†	63100.9	2.003	mg/L	0.0268	4.005	mg/L	0.0536	1.34%
Mo 202.031†	208.6	0.01156	mg/L	0.000079	0.02312	mg/L	0.000159	0.69%
Na 589.592†	207796.9	17.51	mg/L	0.191	35.02	mg/L	0.381	1.09%
Na 330.237†	494.7	18.73	mg/L	0.389	37.47	mg/L	0.777	2.07%
Ni 231.604†	490.1	0.3027	mg/L	0.00492	0.6054	mg/L	0.00983	1.62%
Pb 220.353†	1114.5	0.1701	mg/L	0.00230	0.3402	mg/L	0.00460	1.35%
Sb 206.836†	73.3	0.03344	mg/L	0.000590	0.06687	mg/L	0.001180	1.76%
Se 196.026†	59.8	0.04798	mg/L	0.003271	0.09595	mg/L	0.006543	6.82%
Si 288.158†	11774.4	7.973	mg/L	0.0828	15.95	mg/L	0.166	1.04%
Sn 189.927†	18.0	0.00924	mg/L	0.002102	0.01848	mg/L	0.004204	22.75%
Sr 421.552†	174957.1	0.2767	mg/L	0.00277	0.5534	mg/L	0.00554	1.00%
Ti 334.903†	134018.0	6.101	mg/L	0.0685	12.20	mg/L	0.137	1.12%
Tl 190.801†	-19.5	0.01744	mg/L	0.006935	0.03487	mg/L	0.013871	39.77%
V 292.402†	39135.4	0.3762	mg/L	0.00483	0.7524	mg/L	0.00966	1.28%
Zn 206.200†	406.7	0.6525	mg/L	0.01045	1.305	mg/L	0.0209	1.60%

Sequence No.: 20
Sample ID: RF71 MB1SPK SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 311
Date Collected: 8/6/2010 12:11:11 PM
Data Type: Original

Nebulizer Parameters: RF71 MB1SPK SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RF71 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1936953.2	101.9	%	0.36				0.35%
ScR 361.383	296974.4	101.5	%	0.34				0.34%
Ag 328.068†	94667.1	0.5465	mg/L	0.00113	1.093	mg/L	0.0023	0.21%
Al 308.215†	2756.3	2.165	mg/L	0.0060	4.330	mg/L	0.0121	0.28%
As 188.979†	2980.5	2.159	mg/L	0.0084	4.319	mg/L	0.0168	0.39%
B 249.677†	-6.2	-0.00319	mg/L	0.000867	-0.00638	mg/L	0.001734	27.17%
Ba 233.527†	6646.6	1.993	mg/L	0.0093	3.987	mg/L	0.0186	0.47%
Be 313.042†	281464.3	0.5119	mg/L	0.00259	1.024	mg/L	0.0052	0.51%
Ca 317.933†	150284.3	10.35	mg/L	0.035	20.70	mg/L	0.069	0.34%
Cd 228.802†	11542.9	0.5341	mg/L	0.00229	1.068	mg/L	0.0046	0.43%
Co 228.616†	15696.1	0.5204	mg/L	0.00204	1.041	mg/L	0.0041	0.39%
Cr 267.716†	2588.6	0.5022	mg/L	0.00216	1.004	mg/L	0.0043	0.43%
Cu 324.752†	141162.3	0.5063	mg/L	0.00141	1.013	mg/L	0.0028	0.28%
Fe 273.955†	2506.4	2.189	mg/L	0.0108	4.378	mg/L	0.0215	0.49%
K 766.490†	15322.3	10.54	mg/L	0.051	21.09	mg/L	0.102	0.48%
Mg 279.077†	9790.1	10.43	mg/L	0.029	20.86	mg/L	0.058	0.28%
Mn 257.610†	14938.9	0.4745	mg/L	0.00416	0.9491	mg/L	0.00833	0.88%
Mo 202.031†	22.6	0.00113	mg/L	0.000102	0.00227	mg/L	0.000204	8.98%
Na 589.592†	120351.1	10.14	mg/L	0.039	20.28	mg/L	0.078	0.38%
Na 330.237†	321.3	10.98	mg/L	0.154	21.96	mg/L	0.309	1.41%
Ni 231.604†	839.2	0.5199	mg/L	0.00423	1.040	mg/L	0.0085	0.81%
Pb 220.353†	14434.8	2.093	mg/L	0.0051	4.187	mg/L	0.0103	0.25%
Sb 206.836†	5917.5	2.201	mg/L	0.0061	4.402	mg/L	0.0122	0.28%
Se 196.026†	2587.9	2.173	mg/L	0.0081	4.346	mg/L	0.0163	0.37%
Si 288.158†	29.0	0.02153	mg/L	0.005758	0.04305	mg/L	0.011515	26.75%
Sn 189.927†	-13.1	-0.00168	mg/L	0.001289	-0.00336	mg/L	0.002579	76.73%
Sr 421.552†	332061.1	0.5251	mg/L	0.00378	1.050	mg/L	0.0076	0.72%
Ti 334.903†	62.5	0.00211	mg/L	0.000391	0.00422	mg/L	0.000781	18.52%
Tl 190.801†	3669.3	2.132	mg/L	0.0080	4.264	mg/L	0.0161	0.38%
V 292.402†	52237.2	0.5331	mg/L	0.00228	1.066	mg/L	0.0046	0.43%
Zn 206.200†	326.6	0.5267	mg/L	0.00359	1.053	mg/L	0.0072	0.68%

Sequence No.: 21
Sample ID: RG11 MB1SPK SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 312
Date Collected: 8/6/2010 12:15:22 PM
Data Type: Original

Nebulizer Parameters: RG11 MB1SPK SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG11 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1963065.4	103.2	%	1.44				1.40%
ScR 361.383	297173.7	101.5	%	2.63				2.60%
Ag 328.068†	92795.6	0.5357	mg/L	0.00815	1.071	mg/L	0.0163	1.52%
Al 308.215†	2714.1	2.132	mg/L	0.0563	4.263	mg/L	0.1126	2.64%
As 188.979†	2934.7	2.126	mg/L	0.0360	4.253	mg/L	0.0719	1.69%
B 249.677†	-5.1	-0.00282	mg/L	0.001698	-0.00564	mg/L	0.003396	60.21%
Ba 233.527†	6589.1	1.976	mg/L	0.0509	3.952	mg/L	0.1017	2.57%
Be 313.042†	280211.5	0.5097	mg/L	0.01414	1.019	mg/L	0.0283	2.77%
Ca 317.933†	149069.0	10.27	mg/L	0.286	20.53	mg/L	0.572	2.79%
Cd 228.802†	11332.0	0.5243	mg/L	0.00684	1.049	mg/L	0.0137	1.31%
Co 228.616†	15386.7	0.5102	mg/L	0.00712	1.020	mg/L	0.0142	1.40%
Cr 267.716†	2561.4	0.4970	mg/L	0.01077	0.9939	mg/L	0.02153	2.17%
Cu 324.752†	137625.4	0.4936	mg/L	0.00773	0.9873	mg/L	0.01546	1.57%
Fe 273.955†	2460.8	2.149	mg/L	0.0545	4.299	mg/L	0.1090	2.54%
K 766.490†	15240.6	10.49	mg/L	0.254	20.98	mg/L	0.508	2.42%
Mg 279.077†	9767.1	10.41	mg/L	0.221	20.81	mg/L	0.442	2.13%
Mn 257.610†	14863.0	0.4721	mg/L	0.00988	0.9443	mg/L	0.01976	2.09%
Mo 202.031†	18.9	0.00092	mg/L	0.000300	0.00184	mg/L	0.000599	32.54%
Na 589.592†	119784.2	10.09	mg/L	0.245	20.19	mg/L	0.489	2.42%
Na 330.237†	313.6	10.72	mg/L	0.258	21.44	mg/L	0.516	2.40%
Ni 231.604†	838.3	0.5178	mg/L	0.01232	1.036	mg/L	0.0246	2.38%
Pb 220.353†	14163.5	2.054	mg/L	0.0342	4.108	mg/L	0.0684	1.66%
Sb 206.836†	26.7	0.00644	mg/L	0.000894	0.01287	mg/L	0.001787	13.88%
Se 196.026†	2557.0	2.147	mg/L	0.0344	4.294	mg/L	0.0689	1.60%
Si 288.158†	16.1	0.01275	mg/L	0.007008	0.02551	mg/L	0.014015	54.95%
Sn 189.927†	-8.9	-0.00193	mg/L	0.000507	-0.00386	mg/L	0.001014	26.26%
Sr 421.552†	330006.0	0.5219	mg/L	0.01143	1.044	mg/L	0.0229	2.19%
Ti 334.903†	33.0	0.00077	mg/L	0.000817	0.00154	mg/L	0.001634	106.18%
Tl 190.801†	3594.3	2.088	mg/L	0.0388	4.177	mg/L	0.0775	1.86%
V 292.402†	50992.2	0.5204	mg/L	0.00834	1.041	mg/L	0.0167	1.60%
Zn 206.200†	318.8	0.5141	mg/L	0.01251	1.028	mg/L	0.0250	2.43%

Sequence No.: 22
Sample ID: RG11 MB1SPD
Analyst: ALA
Dilution: 2X

Autosampler Location: 313
Date Collected: 8/6/2010 12:19:33 PM
Data Type: Original

Nebulizer Parameters: RG11 MB1SPD

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG11 MB1SPD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1962901.1	103.2	%	0.97				0.94%
ScR 361.383	299966.7	102.5	%	1.16				1.13%
Ag 328.068†	92724.3	0.5353	mg/L	0.00239	1.071	mg/L	0.0048	0.45%
Al 308.215†	2699.5	2.120	mg/L	0.0187	4.240	mg/L	0.0374	0.88%
As 188.979†	2928.2	2.122	mg/L	0.0195	4.243	mg/L	0.0390	0.92%
B 249.677†	1.8	-0.00074	mg/L	0.001313	-0.00148	mg/L	0.002626	177.01%
Ba 233.527†	6530.5	1.958	mg/L	0.0182	3.917	mg/L	0.0364	0.93%
Be 313.042†	275484.7	0.5011	mg/L	0.00325	1.002	mg/L	0.0065	0.65%
Ca 317.933†	146736.5	10.11	mg/L	0.055	20.21	mg/L	0.111	0.55%
Cd 228.802†	11294.6	0.5225	mg/L	0.00468	1.045	mg/L	0.0094	0.89%
Co 228.616†	15335.5	0.5085	mg/L	0.00418	1.017	mg/L	0.0084	0.82%
Cr 267.716†	2548.0	0.4944	mg/L	0.00537	0.9887	mg/L	0.01074	1.09%
Cu 324.752†	138107.6	0.4954	mg/L	0.00890	0.9907	mg/L	0.01780	1.80%
Fe 273.955†	2457.4	2.146	mg/L	0.0197	4.293	mg/L	0.0393	0.92%
K 766.490†	15128.0	10.41	mg/L	0.137	20.82	mg/L	0.273	1.31%
Mg 279.077†	9610.8	10.24	mg/L	0.116	20.48	mg/L	0.233	1.14%
Mn 257.610†	14666.1	0.4659	mg/L	0.00710	0.9318	mg/L	0.01419	1.52%
Mo 202.031†	16.1	0.00076	mg/L	0.000125	0.00152	mg/L	0.000250	16.45%
Na 589.592†	118248.8	9.965	mg/L	0.0822	19.93	mg/L	0.164	0.83%
Na 330.237†	311.4	10.64	mg/L	0.129	21.29	mg/L	0.258	1.21%
Ni 231.604†	822.4	0.5080	mg/L	0.00486	1.016	mg/L	0.0097	0.96%
Pb 220.353†	14153.5	2.053	mg/L	0.0100	4.105	mg/L	0.0200	0.49%
Sb 206.836†	14.1	0.00177	mg/L	0.000403	0.00353	mg/L	0.000806	22.83%
Se 196.026†	2557.1	2.147	mg/L	0.0175	4.294	mg/L	0.0350	0.82%
Si 288.158†	11.6	0.00973	mg/L	0.007666	0.01947	mg/L	0.015331	78.75%
Sn 189.927†	-15.0	-0.00361	mg/L	0.000444	-0.00722	mg/L	0.000888	12.31%
Sr 421.552†	327395.5	0.5177	mg/L	0.00265	1.035	mg/L	0.0053	0.51%
Ti 334.903†	21.6	0.00026	mg/L	0.000585	0.00053	mg/L	0.001170	222.05%
Tl 190.801†	3600.5	2.092	mg/L	0.0157	4.184	mg/L	0.0313	0.75%
V 292.402†	50934.0	0.5198	mg/L	0.00302	1.040	mg/L	0.0060	0.58%
Zn 206.200†	316.6	0.5106	mg/L	0.00561	1.021	mg/L	0.0112	1.10%

Sequence No.: 23
Sample ID: CV
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 12:23:44 PM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1933980.8	101.7	%	0.33				0.32%
ScR 361.383	296410.3	101.3	%	1.02				1.00%
Ag 328.068†	183614.6	1.060	mg/L	0.0038	1.060	mg/L	0.0038	0.36%
Al 308.215†	2743.2	2.132	mg/L	0.0182	2.132	mg/L	0.0182	0.85%
As 188.979†	2919.5	2.133	mg/L	0.0107	2.133	mg/L	0.0107	0.50%
B 249.677†	3386.2	1.021	mg/L	0.0134	1.021	mg/L	0.0134	1.31%
Ba 233.527†	3285.4	0.9848	mg/L	0.01161	0.9848	mg/L	0.01161	1.18%
Be 313.042†	557170.4	1.013	mg/L	0.0051	1.013	mg/L	0.0051	0.50%
Ca 317.933†	30976.0	2.133	mg/L	0.0212	2.133	mg/L	0.0212	0.99%
Cd 228.802†	22892.0	1.067	mg/L	0.0054	1.067	mg/L	0.0054	0.51%
Co 228.616†	31402.6	1.040	mg/L	0.0041	1.040	mg/L	0.0041	0.40%
Cr 267.716†	5138.0	0.9994	mg/L	0.01089	0.9994	mg/L	0.01089	1.09%
Cu 324.752†	294046.6	1.054	mg/L	0.0055	1.054	mg/L	0.0055	0.52%
Fe 273.955†	2388.9	2.084	mg/L	0.0243	2.084	mg/L	0.0243	1.17%
K 766.490†	30443.7	20.95	mg/L	0.168	20.95	mg/L	0.168	0.80%
Mg 279.077†	1977.0	2.112	mg/L	0.0223	2.112	mg/L	0.0223	1.06%
Mn 257.610†	29890.7	0.9491	mg/L	0.01041	0.9491	mg/L	0.01041	1.10%
Mo 202.031†	17113.8	0.9955	mg/L	0.00147	0.9955	mg/L	0.00147	0.15%
Na 589.592†	599310.5	50.50	mg/L	0.279	50.50	mg/L	0.279	0.55%
Na 330.237†	1560.8	53.71	mg/L	0.500	53.71	mg/L	0.500	0.93%
Ni 231.604†	1684.7	1.042	mg/L	0.0069	1.042	mg/L	0.0069	0.66%
Pb 220.353†	14606.1	2.119	mg/L	0.0072	2.119	mg/L	0.0072	0.34%
Sb 206.836†	5800.3	2.167	mg/L	0.0092	2.167	mg/L	0.0092	0.42%
Se 196.026†	2536.1	2.130	mg/L	0.0101	2.130	mg/L	0.0101	0.47%
Si 288.158†	3245.5	2.201	mg/L	0.0229	2.201	mg/L	0.0229	1.04%
Sn 189.927†	3877.1	1.056	mg/L	0.0050	1.056	mg/L	0.0050	0.47%
Sr 421.552†	661933.9	1.047	mg/L	0.0068	1.047	mg/L	0.0068	0.65%
Ti 334.903†	22646.5	1.030	mg/L	0.0137	1.030	mg/L	0.0137	1.33%
Tl 190.801†	3618.6	2.104	mg/L	0.0067	2.104	mg/L	0.0067	0.32%
V 292.402†	101970.0	1.041	mg/L	0.0077	1.041	mg/L	0.0077	0.74%
Zn 206.200†	647.4	1.044	mg/L	0.0093	1.044	mg/L	0.0093	0.89%

Sequence No.: 24
Sample ID: CB
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 12:27:57 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1944308.2	102.2	%	0.36				0.35%
ScR 361.383	301689.0	103.1	%	1.39				1.35%
Ag 328.068†	-54.0	-0.00031	mg/L	0.000506	-0.00031	mg/L	0.000506	162.45%
Al 308.215†	1.5	0.00122	mg/L	0.001022	0.00122	mg/L	0.001022	83.94%
As 188.979†	-0.4	-0.00032	mg/L	0.001071	-0.00032	mg/L	0.001071	337.02%
B 249.677†	-2.3	-0.00068	mg/L	0.001529	-0.00068	mg/L	0.001529	224.75%
Ba 233.527†	2.4	0.00073	mg/L	0.000656	0.00073	mg/L	0.000656	90.23%
Be 313.042†	0.4	0.00000	mg/L	0.000036	0.00000	mg/L	0.000036	>999.9%
Ca 317.933†	13.1	0.00090	mg/L	0.002627	0.00090	mg/L	0.002627	290.65%
Cd 228.802†	-1.8	-0.00008	mg/L	0.000087	-0.00008	mg/L	0.000087	105.65%
Co 228.616†	-4.7	-0.00016	mg/L	0.000033	-0.00016	mg/L	0.000033	20.88%
Cr 267.716†	4.0	0.00078	mg/L	0.001342	0.00078	mg/L	0.001342	171.57%
Cu 324.752†	209.2	0.00075	mg/L	0.000151	0.00075	mg/L	0.000151	20.17%
Fe 273.955†	-3.4	-0.00298	mg/L	0.003630	-0.00298	mg/L	0.003630	121.98%
K 766.490†	23.8	0.01640	mg/L	0.026136	0.01640	mg/L	0.026136	159.39%
Mg 279.077†	9.2	0.00983	mg/L	0.001503	0.00983	mg/L	0.001503	15.29%
Mn 257.610†	-1.4	-0.00005	mg/L	0.000028	-0.00005	mg/L	0.000028	62.56%
Mo 202.031†	-3.1	-0.00018	mg/L	0.000341	-0.00018	mg/L	0.000341	188.02%
Na 589.592†	72.2	0.00608	mg/L	0.004339	0.00608	mg/L	0.004339	71.34%
Na 330.237†	1.2	0.04001	mg/L	0.119348	0.04001	mg/L	0.119348	298.33%
Ni 231.604†	3.5	0.00215	mg/L	0.001714	0.00215	mg/L	0.001714	79.66%
Pb 220.353†	1.3	0.00019	mg/L	0.000606	0.00019	mg/L	0.000606	311.46%
Sb 206.836†	10.4	0.00387	mg/L	0.001257	0.00387	mg/L	0.001257	32.48%
Se 196.026†	9.1	0.00763	mg/L	0.002000	0.00763	mg/L	0.002000	26.21%
Si 288.158†	6.5	0.00441	mg/L	0.004450	0.00441	mg/L	0.004450	100.81%
Sn 189.927†	3.7	0.00101	mg/L	0.000757	0.00101	mg/L	0.000757	75.20%
Sr 421.552†	-8.7	-0.00001	mg/L	0.000054	-0.00001	mg/L	0.000054	390.91%
Ti 334.903†	9.4	0.00043	mg/L	0.001099	0.00043	mg/L	0.001099	257.32%
Tl 190.801†	5.7	0.00331	mg/L	0.000478	0.00331	mg/L	0.000478	14.44%
V 292.402†	22.3	0.00023	mg/L	0.000068	0.00023	mg/L	0.000068	29.31%
Zn 206.200†	0.8	0.00130	mg/L	0.000422	0.00130	mg/L	0.000422	32.48%

Sequence No.: 25
Sample ID: RG84 D SWC
Analyst: ALA
Dilution: 10X

Autosampler Location: 322
Date Collected: 8/6/2010 12:32:08 PM
Data Type: Original

DCL

Nebulizer Parameters: RG84 D SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG84 D SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1967540.2	103.5	%	0.41				0.39%
ScR 361.383	304209.8	103.9	%	0.18				0.17%
Ag 328.068†	184.9	0.00087	mg/L	0.000147	0.00870	mg/L	0.001470	16.90%
Al 308.215†	28572.8	22.54	mg/L	0.181	225.4	mg/L	1.81	0.80%
As 188.979†	42.9	0.05500	mg/L	0.005122	0.5500	mg/L	0.05122	9.31%
B 249.677†	106.0	0.03194	mg/L	0.002379	0.3194	mg/L	0.02379	7.45%
Ba 233.527†	892.2	0.2556	mg/L	0.00132	2.556	mg/L	0.0132	0.52%
Be 313.042†	275.0	0.00041	mg/L	0.000007	0.00412	mg/L	0.000073	1.76%
Ca 317.933†	173691.4	11.96	mg/L	0.096	119.6	mg/L	0.96	0.81%
Cd 228.802†	1222.1	0.05729	mg/L	0.000445	0.5729	mg/L	0.00445	0.78%
Co 228.616†	1361.1	0.04120	mg/L	0.000487	0.4120	mg/L	0.00487	1.18%
Cr 267.716†	1367.2	0.2708	mg/L	0.00089	2.708	mg/L	0.0089	0.33%
Cu 324.752†	160267.3	0.5833	mg/L	0.00023	5.833	mg/L	0.0023	0.04%
Fe 273.955†	147224.8	128.8	mg/L	1.03	1288	mg/L	10.3	0.80%
K 766.490†	2002.3	1.378	mg/L	0.0051	13.78	mg/L	0.051	0.37%
Mg 279.077†	7381.2	7.799	mg/L	0.0035	77.99	mg/L	0.035	0.05%
Mn 257.610†	43737.6	1.389	mg/L	0.0068	13.89	mg/L	0.068	0.49%
Mo 202.031†	549.2	0.03174	mg/L	0.000457	0.3174	mg/L	0.00457	1.44%
Na 589.592†	12932.3	1.090	mg/L	0.0049	10.90	mg/L	0.049	0.45%
Na 330.237†	47.8	1.074	mg/L	0.2213	10.74	mg/L	2.213	20.60%
Ni 231.604†	283.6	0.1752	mg/L	0.00431	1.752	mg/L	0.0431	2.46%
Pb 220.353†	7940.7	1.146	mg/L	0.0082	11.46	mg/L	0.082	0.71%
Sb 206.836†	56.6	0.02083	mg/L	0.002735	0.2083	mg/L	0.02735	13.13%
Se 196.026†	14.0	0.01095	mg/L	0.005616	0.1095	mg/L	0.05616	51.28%
Si 288.158†	329.1	0.2231	mg/L	0.00110	2.231	mg/L	0.0110	0.49%
Sn 189.927†	105.7	0.02995	mg/L	0.001119	0.2995	mg/L	0.01119	3.74%
Sr 421.552†	43903.2	0.06943	mg/L	0.000639	0.6943	mg/L	0.00639	0.92%
Ti 334.903†	29837.3	1.358	mg/L	0.0075	13.58	mg/L	0.075	0.55%
Tl 190.801†	-27.6	0.00438	mg/L	0.001659	0.04382	mg/L	0.016593	37.87%
V 292.402†	13842.2	0.1275	mg/L	0.00103	1.275	mg/L	0.0103	0.81%
Zn 206.200†	2634.4	4.248	mg/L	0.0175	42.48	mg/L	0.175	0.41%

Sequence No.: 26
Sample ID: RG84 G SWC
Analyst: ALA
Dilution: 10X

Autosampler Location: 323
Date Collected: 8/6/2010 12:36:06 PM
Data Type: Original

DEL

Nebulizer Parameters: RG84 G SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG84 G SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1977300.0	104.0	%	0.74				0.71%
ScR 361.383	281667.1	96.24	%	0.230				0.24%
Ag 328.068†	462.7	0.00250	mg/L	0.000117	0.02501	mg/L	0.001170	4.68%
Al 308.215†	36451.9	28.75	mg/L	0.232	287.5	mg/L	2.32	0.81%
As 188.979†	-16.1	0.01805	mg/L	0.002337	0.1805	mg/L	0.02337	12.95%
B 249.677†	37.9	0.01138	mg/L	0.000951	0.1138	mg/L	0.00951	8.36%
Ba 233.527†	1320.2	0.3822	mg/L	0.00040	3.822	mg/L	0.0040	0.10%
Be 313.042†	332.7	0.00053	mg/L	0.000010	0.00533	mg/L	0.000097	1.83%
Ca 317.933†	276736.1	19.06	mg/L	0.211	190.6	mg/L	2.11	1.11%
Cd 228.802†	676.2	0.03191	mg/L	0.000303	0.3191	mg/L	0.00303	0.95%
Co 228.616†	1314.1	0.03878	mg/L	0.000191	0.3878	mg/L	0.00191	0.49%
Cr 267.716†	2245.5	0.4424	mg/L	0.00385	4.424	mg/L	0.0385	0.87%
Cu 324.752†	111463.5	0.4096	mg/L	0.00428	4.096	mg/L	0.0428	1.05%
Fe 273.955†	169887.1	148.6	mg/L	0.91	1486	mg/L	9.1	0.61%
K 766.490†	2954.4	2.033	mg/L	0.0057	20.33	mg/L	0.057	0.28%
Mg 279.077†	8376.3	8.849	mg/L	0.0254	88.49	mg/L	0.254	0.29%
Mn 257.610†	39741.2	1.262	mg/L	0.0095	12.62	mg/L	0.095	0.75%
Mo 202.031†	609.4	0.03512	mg/L	0.000303	0.3512	mg/L	0.00303	0.86%
Na 589.592†	13865.8	1.168	mg/L	0.0105	11.68	mg/L	0.105	0.90%
Na 330.237†	28.9	1.126	mg/L	0.3349	11.26	mg/L	3.349	29.74%
Ni 231.604†	430.3	0.2658	mg/L	0.00482	2.658	mg/L	0.0482	1.82%
Pb 220.353†	1767.8	0.2511	mg/L	0.00183	2.511	mg/L	0.0183	0.73%
Sb 206.836†	43.7	0.01440	mg/L	0.002250	0.1440	mg/L	0.02250	15.63%
Se 196.026†	16.9	0.01292	mg/L	0.001643	0.1292	mg/L	0.01643	12.72%
Si 288.158†	330.4	0.2238	mg/L	0.00387	2.238	mg/L	0.0387	1.73%
Sn 189.927†	52.1	0.01583	mg/L	0.001624	0.1583	mg/L	0.01624	10.26%
Sr 421.552†	83682.6	0.1323	mg/L	0.00080	1.323	mg/L	0.0080	0.60%
Ti 334.903†	37387.3	1.701	mg/L	0.0134	17.01	mg/L	0.134	0.79%
Tl 190.801†	-23.0	0.00993	mg/L	0.002370	0.09928	mg/L	0.023698	23.87%
V 292.402†	10164.4	0.08849	mg/L	0.001015	0.8849	mg/L	0.01015	1.15%
Zn 206.200†	1170.8	1.888	mg/L	0.0114	18.88	mg/L	0.114	0.61%

Sequence No.: 27
Sample ID: RG84 H SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 324
Date Collected: 8/6/2010 12:40:02 PM
Data Type: Original

DEL

Nebulizer Parameters: RG84 H SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 H SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1966180.5	103.4	%	0.64				0.61%
ScR 361.383	305771.5	104.5	%	1.71				1.64%
Ag 328.068†	206.4	0.00068	mg/L	0.000128	0.00137	mg/L	0.000255	18.65%
Al 308.215†	143636.3	113.3	mg/L	1.68	226.6	mg/L	3.36	1.48%
As 188.979†	-86.6	0.03620	mg/L	0.002474	0.07241	mg/L	0.004949	6.83%
B 249.677†	312.1	0.09406	mg/L	0.003234	0.1881	mg/L	0.00647	3.44%
Ba 233.527†	6299.4	1.869	mg/L	0.0400	3.739	mg/L	0.0800	2.14%
Be 313.042†	1195.8	0.00188	mg/L	0.000072	0.00375	mg/L	0.000143	3.82%
Ca 317.933†	1454755.7	100.2	mg/L	1.41	200.4	mg/L	2.83	1.41%
Cd 228.802†	640.2	0.03043	mg/L	0.000164	0.06087	mg/L	0.000328	0.54%
Co 228.616†	3284.8	0.09644	mg/L	0.001006	0.1929	mg/L	0.00201	1.04%
Cr 267.716†	3358.9	0.6560	mg/L	0.01116	1.312	mg/L	0.0223	1.70%
Cu 324.752†	529140.1	1.910	mg/L	0.0009	3.819	mg/L	0.0018	0.05%
Fe 273.955†	239710.9	209.6	mg/L	2.73	419.3	mg/L	5.45	1.30%
K 766.490†	13387.2	9.212	mg/L	0.1072	18.42	mg/L	0.214	1.16%
Mg 279.077†	39765.2	42.25	mg/L	0.484	84.51	mg/L	0.967	1.14%
Mn 257.610†	128731.9	4.086	mg/L	0.0598	8.172	mg/L	0.1197	1.46%
Mo 202.031†	1000.0	0.05643	mg/L	0.000110	0.1129	mg/L	0.00022	0.20%
Na 589.592†	70276.9	5.922	mg/L	0.0858	11.84	mg/L	0.172	1.45%
Na 330.237†	277.5	6.509	mg/L	0.1579	13.02	mg/L	0.316	2.43%
Ni 231.604†	552.1	0.3410	mg/L	0.00696	0.6821	mg/L	0.01393	2.04%
Pb 220.353†	13726.3	1.994	mg/L	0.0086	3.987	mg/L	0.0171	0.43%
Sb 206.836†	73.2	0.02953	mg/L	0.003560	0.05906	mg/L	0.007120	12.06%
Se 196.026†	56.1	0.04029	mg/L	0.004791	0.08058	mg/L	0.009582	11.89%
Si 288.158†	1514.7	1.026	mg/L	0.0193	2.052	mg/L	0.0385	1.88%
Sn 189.927†	118.1	0.03937	mg/L	0.001763	0.07874	mg/L	0.003525	4.48%
Sr 421.552†	384542.0	0.6081	mg/L	0.00797	1.216	mg/L	0.0159	1.31%
Ti 334.903†	124580.3	5.667	mg/L	0.0775	11.33	mg/L	0.155	1.37%
Tl 190.801†	-33.5	0.01500	mg/L	0.005042	0.02999	mg/L	0.010085	33.63%
V 292.402†	44953.8	0.4347	mg/L	0.00113	0.8695	mg/L	0.00226	0.26%
Zn 206.200†	13497.5	21.77	mg/L	0.231	43.53	mg/L	0.462	1.06%

Sequence No.: 28
Sample ID: RG84 I SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 325
Date Collected: 8/6/2010 12:43:44 PM
Data Type: Original

DEL

Nebulizer Parameters: RG84 I SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 I SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1996013.9	105.0	%	0.85				0.81%
ScR 361.383	305088.6	104.2	%	1.18				1.14%
Ag 328.068†	-118.3	-0.00080	mg/L	0.000212	-0.00160	mg/L	0.000423	26.53%
Al 308.215†	198307.6	156.4	mg/L	1.85	312.9	mg/L	3.70	1.18%
As 188.979†	-172.4	0.03656	mg/L	0.003746	0.07312	mg/L	0.007492	10.25%
B 249.677†	39.7	0.01174	mg/L	0.002944	0.02348	mg/L	0.005888	25.08%
Ba 233.527†	1807.7	0.5204	mg/L	0.00494	1.041	mg/L	0.0099	0.95%
Be 313.042†	1649.9	0.00261	mg/L	0.000045	0.00521	mg/L	0.000091	1.74%
Ca 317.933†	932498.3	64.22	mg/L	0.755	128.4	mg/L	1.51	1.18%
Cd 228.802†	122.0	0.00626	mg/L	0.000171	0.01252	mg/L	0.000342	2.73%
Co 228.616†	2944.9	0.07951	mg/L	0.000473	0.1590	mg/L	0.00095	0.59%
Cr 267.716†	1050.6	0.2065	mg/L	0.00300	0.4131	mg/L	0.00599	1.45%
Cu 324.752†	85291.8	0.3176	mg/L	0.00393	0.6353	mg/L	0.00786	1.24%
Fe 273.955†	260893.4	228.2	mg/L	3.19	456.3	mg/L	6.39	1.40%
K 766.490†	14842.0	10.21	mg/L	0.139	20.43	mg/L	0.278	1.36%
Mg 279.077†	52382.5	55.69	mg/L	0.877	111.4	mg/L	1.75	1.57%
Mn 257.610†	89828.5	2.851	mg/L	0.0455	5.701	mg/L	0.0911	1.60%
Mo 202.031†	112.3	0.00542	mg/L	0.000609	0.01084	mg/L	0.001217	11.23%
Na 589.592†	73884.6	6.226	mg/L	0.0816	12.45	mg/L	0.163	1.31%
Na 330.237†	130.2	6.583	mg/L	0.3153	13.17	mg/L	0.631	4.79%
Ni 231.604†	322.0	0.1989	mg/L	0.00522	0.3978	mg/L	0.01045	2.63%
Pb 220.353†	450.2	0.07582	mg/L	0.001042	0.1516	mg/L	0.00208	1.37%
Sb 206.836†	32.1	0.02314	mg/L	0.002199	0.04628	mg/L	0.004398	9.50%
Se 196.026†	46.7	0.03488	mg/L	0.002704	0.06977	mg/L	0.005407	7.75%
Si 288.158†	1385.2	0.9380	mg/L	0.01028	1.876	mg/L	0.0206	1.10%
Sn 189.927†	-34.1	-0.00215	mg/L	0.000144	-0.00430	mg/L	0.000288	6.70%
Sr 421.552†	291976.8	0.4617	mg/L	0.00574	0.9235	mg/L	0.01148	1.24%
Ti 334.903†	198521.4	9.036	mg/L	0.1292	18.07	mg/L	0.258	1.43%
Tl 190.801†	-38.4	0.01358	mg/L	0.000902	0.02715	mg/L	0.001804	6.64%
V 292.402†	55849.7	0.5395	mg/L	0.00528	1.079	mg/L	0.0106	0.98%
Zn 206.200†	2001.8	3.224	mg/L	0.0372	6.449	mg/L	0.0744	1.15%

Sequence No.: 29
Sample ID: RG84 J SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 326
Date Collected: 8/6/2010 12:47:26 PM
Data Type: Original

DEL

Nebulizer Parameters: RG84 J SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG84 J SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1992117.3	104.8	%	2.28				2.18%
ScR 361.383	310789.5	106.2	%	1.65				1.56%
Ag 328.068†	-17.8	-0.00016	mg/L	0.000191	-0.00032	mg/L	0.000382	118.55%
Al 308.215†	162837.8	128.4	mg/L	1.88	256.9	mg/L	3.75	1.46%
As 188.979†	-195.6	0.01839	mg/L	0.007163	0.03678	mg/L	0.014327	38.96%
B 249.677†	35.4	0.01049	mg/L	0.000524	0.02098	mg/L	0.001048	5.00%
Ba 233.527†	1684.6	0.4860	mg/L	0.00600	0.9720	mg/L	0.01199	1.23%
Be 313.042†	1214.6	0.00186	mg/L	0.000057	0.00373	mg/L	0.000115	3.08%
Ca 317.933†	901800.8	62.11	mg/L	1.000	124.2	mg/L	2.00	1.61%
Cd 228.802†	141.4	0.00726	mg/L	0.000464	0.01453	mg/L	0.000928	6.39%
Co 228.616†	2575.0	0.06768	mg/L	0.001693	0.1354	mg/L	0.00339	2.50%
Cr 267.716†	1477.9	0.2894	mg/L	0.00360	0.5788	mg/L	0.00721	1.25%
Cu 324.752†	127721.1	0.4681	mg/L	0.01104	0.9362	mg/L	0.02209	2.36%
Fe 273.955†	230714.5	201.8	mg/L	3.25	403.5	mg/L	6.49	1.61%
K 766.490†	11386.3	7.835	mg/L	0.1206	15.67	mg/L	0.241	1.54%
Mg 279.077†	46023.2	48.93	mg/L	0.875	97.86	mg/L	1.749	1.79%
Mn 257.610†	76682.4	2.434	mg/L	0.0419	4.867	mg/L	0.0838	1.72%
Mo 202.031†	235.8	0.01264	mg/L	0.000687	0.02528	mg/L	0.001373	5.43%
Na 589.592†	73404.5	6.186	mg/L	0.1001	12.37	mg/L	0.200	1.62%
Na 330.237†	268.5	6.641	mg/L	0.3089	13.28	mg/L	0.618	4.65%
Ni 231.604†	412.6	0.2549	mg/L	0.00231	0.5097	mg/L	0.00462	0.91%
Pb 220.353†	5338.1	0.7816	mg/L	0.01766	1.563	mg/L	0.0353	2.26%
Sb 206.836†	29.1	0.02087	mg/L	0.001930	0.04173	mg/L	0.003859	9.25%
Se 196.026†	51.5	0.03905	mg/L	0.002130	0.07811	mg/L	0.004260	5.45%
Si 288.158†	1708.7	1.157	mg/L	0.0189	2.314	mg/L	0.0378	1.63%
Sn 189.927†	-3.1	0.00614	mg/L	0.001033	0.01227	mg/L	0.002066	16.84%
Sr 421.552†	182197.7	0.2881	mg/L	0.00480	0.5763	mg/L	0.00961	1.67%
Ti 334.903†	196954.9	8.965	mg/L	0.1506	17.93	mg/L	0.301	1.68%
Tl 190.801†	-30.8	0.01382	mg/L	0.002165	0.02765	mg/L	0.004330	15.66%
V 292.402†	46598.5	0.4486	mg/L	0.01061	0.8972	mg/L	0.02123	2.37%
Zn 206.200†	14113.9	22.76	mg/L	0.436	45.52	mg/L	0.872	1.92%

Sequence No.: 30
Sample ID: RG84 K SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 327
Date Collected: 8/6/2010 12:51:08 PM
Data Type: Original

DEL

Nebulizer Parameters: RG84 K SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 K SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1987646.8	104.5	%	1.53				1.47%
ScR 361.383	308043.1	105.2	%	0.88				0.84%
Ag 328.068†	-29.4	-0.00024	mg/L	0.000382	-0.00048	mg/L	0.000764	158.59%
Al 308.215†	141239.2	111.4	mg/L	1.31	222.8	mg/L	2.62	1.18%
As 188.979†	-152.8	0.02784	mg/L	0.004730	0.05568	mg/L	0.009460	16.99%
B 249.677†	220.2	0.06631	mg/L	0.002430	0.1326	mg/L	0.00486	3.66%
Ba 233.527†	2217.4	0.6481	mg/L	0.00524	1.296	mg/L	0.0105	0.81%
Be 313.042†	1217.3	0.00188	mg/L	0.000007	0.00376	mg/L	0.000013	0.35%
Ca 317.933†	890332.3	61.32	mg/L	0.939	122.6	mg/L	1.88	1.53%
Cd 228.802†	175.4	0.00874	mg/L	0.000284	0.01747	mg/L	0.000568	3.25%
Co 228.616†	2814.7	0.07793	mg/L	0.001008	0.1559	mg/L	0.00202	1.29%
Cr 267.716†	1361.1	0.2665	mg/L	0.00181	0.5331	mg/L	0.00362	0.68%
Cu 324.752†	139043.9	0.5076	mg/L	0.01221	1.015	mg/L	0.0244	2.41%
Fe 273.955†	202787.1	177.3	mg/L	2.78	354.7	mg/L	5.57	1.57%
K 766.490†	10175.3	7.002	mg/L	0.0386	14.00	mg/L	0.077	0.55%
Mg 279.077†	38812.6	41.26	mg/L	0.599	82.52	mg/L	1.197	1.45%
Mn 257.610†	72287.3	2.294	mg/L	0.0309	4.588	mg/L	0.0618	1.35%
Mo 202.031†	219.3	0.01169	mg/L	0.000562	0.02339	mg/L	0.001124	4.81%
Na 589.592†	73011.8	6.153	mg/L	0.0700	12.31	mg/L	0.140	1.14%
Na 330.237†	146.9	6.337	mg/L	0.2264	12.67	mg/L	0.453	3.57%
Ni 231.604†	373.1	0.2304	mg/L	0.00145	0.4609	mg/L	0.00290	0.63%
Pb 220.353†	3204.9	0.4710	mg/L	0.00596	0.9421	mg/L	0.01192	1.27%
Sb 206.836†	26.3	0.01866	mg/L	0.000264	0.03733	mg/L	0.000529	1.42%
Se 196.026†	39.0	0.02855	mg/L	0.003156	0.05711	mg/L	0.006312	11.05%
Si 288.158†	1912.2	1.295	mg/L	0.0118	2.590	mg/L	0.0236	0.91%
Sn 189.927†	28.5	0.01417	mg/L	0.000513	0.02833	mg/L	0.001025	3.62%
Sr 421.552†	380969.7	0.6025	mg/L	0.00745	1.205	mg/L	0.0149	1.24%
Ti 334.903†	170692.0	7.769	mg/L	0.1084	15.54	mg/L	0.217	1.40%
Tl 190.801†	-26.9	0.01222	mg/L	0.002012	0.02443	mg/L	0.004024	16.47%
V 292.402†	47187.0	0.4578	mg/L	0.01016	0.9155	mg/L	0.02033	2.22%
Zn 206.200†	3180.0	5.126	mg/L	0.0327	10.25	mg/L	0.065	0.64%

Sequence No.: 31
Sample ID: RG84 ADUP SWC
Analyst: ALA
Dilution: 20X

DEL

Autosampler Location: 328
Date Collected: 8/6/2010 12:54:50 PM
Data Type: Original

Nebulizer Parameters: RG84 ADUP SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 ADUP SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1936804.8	101.8	%	0.56				0.55%
ScR 361.383	280699.4	95.91	%	0.426				0.44%
Ag 328.068†	662.3	0.00372	mg/L	0.000110	0.07447	mg/L	0.002206	2.96%
Al 308.215†	23691.3	18.69	mg/L	0.119	373.8	mg/L	2.38	0.64%
As 188.979†	32.7	0.03799	mg/L	0.000503	0.7598	mg/L	0.01006	1.32%
B 249.677†	32.7	0.00985	mg/L	0.001030	0.1970	mg/L	0.02060	10.46%
Ba 233.527†	559.6	0.1615	mg/L	0.00044	3.230	mg/L	0.0088	0.27%
Be 313.042†	303.2	0.00051	mg/L	0.000013	0.01029	mg/L	0.000253	2.46%
Ca 317.933†	154513.7	10.64	mg/L	0.054	212.8	mg/L	1.09	0.51%
Cd 228.802†	715.7	0.03366	mg/L	0.000250	0.6732	mg/L	0.00500	0.74%
Co 228.616†	831.8	0.02528	mg/L	0.000316	0.5056	mg/L	0.00631	1.25%
Cr 267.716†	2424.5	0.4742	mg/L	0.00092	9.483	mg/L	0.0183	0.19%
Cu 324.752†	9035186.5	32.41	mg/L	0.306	648.1	mg/L	6.12	0.94%
Fe 273.955†	77150.1	67.47	mg/L	0.318	1349	mg/L	6.4	0.47%
K 766.490†	1344.5	0.9252	mg/L	0.01435	18.50	mg/L	0.287	1.55%
Mg 279.077†	4779.8	5.058	mg/L	0.0136	101.2	mg/L	0.27	0.27%
Mn 257.610†	21969.5	0.6974	mg/L	0.00439	13.95	mg/L	0.088	0.63%
Mo 202.031†	596.6	0.03452	mg/L	0.000336	0.6905	mg/L	0.00672	0.97%
Na 589.592†	6361.2	0.5360	mg/L	0.00493	10.72	mg/L	0.099	0.92%
Na 330.237†	23.5	0.3125	mg/L	0.23749	6.251	mg/L	4.7497	75.98%
Ni 231.604†	476.2	0.2941	mg/L	0.00077	5.883	mg/L	0.0153	0.26%
Pb 220.353†	1608.5	0.1913	mg/L	0.00054	3.826	mg/L	0.0109	0.28%
Sb 206.836†	35.6	0.00975	mg/L	0.000816	0.1951	mg/L	0.01633	8.37%
Se 196.026†	16.1	0.01276	mg/L	0.009144	0.2552	mg/L	0.18288	71.67%
Si 288.158†	177.6	0.1204	mg/L	0.00380	2.408	mg/L	0.0760	3.16%
Sn 189.927†	55.4	0.01595	mg/L	0.000488	0.3190	mg/L	0.00976	3.06%
Sr 421.552†	39067.4	0.06178	mg/L	0.000544	1.236	mg/L	0.0109	0.88%
Ti 334.903†	18351.1	0.8349	mg/L	0.00582	16.70	mg/L	0.116	0.70%
Tl 190.801†	-11.4	0.00401	mg/L	0.002340	0.08010	mg/L	0.046795	58.42%
V 292.402†	5329.1	0.04857	mg/L	0.000285	0.9715	mg/L	0.00569	0.59%
Zn 206.200†	2052.2	3.309	mg/L	0.0082	66.19	mg/L	0.164	0.25%

Sequence No.: 32
Sample ID: DIL
Analyst: ALA
Dilution: 1X

Autosampler Location: 329
Date Collected: 8/6/2010 12:59:03 PM
Data Type: Original

Nebulizer Parameters: DIL

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: DIL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1941724.3	102.1	%	0.41				0.40%
ScR 361.383	301759.1	103.1	%	0.19				0.19%
Ag 328.068†	-18.7	-0.00011	mg/L	0.000218	-0.00011	mg/L	0.000218	202.54%
Al 308.215†	4.5	0.00352	mg/L	0.010087	0.00352	mg/L	0.010087	286.95%
As 188.979†	0.3	0.00020	mg/L	0.000795	0.00020	mg/L	0.000795	390.00%
B 249.677†	-12.7	-0.00385	mg/L	0.001251	-0.00385	mg/L	0.001251	32.49%
Ba 233.527†	1.3	0.00038	mg/L	0.000311	0.00038	mg/L	0.000311	81.98%
Be 313.042†	-10.2	-0.00002	mg/L	0.000026	-0.00002	mg/L	0.000026	141.44%
Ca 317.933†	43.0	0.00296	mg/L	0.002042	0.00296	mg/L	0.002042	68.90%
Cd 228.802†	0.9	0.00004	mg/L	0.000132	0.00004	mg/L	0.000132	300.76%
Co 228.616†	3.3	0.00011	mg/L	0.000058	0.00011	mg/L	0.000058	53.03%
Cr 267.716†	4.3	0.00084	mg/L	0.000896	0.00084	mg/L	0.000896	106.41%
Cu 324.752†	666.7	0.00239	mg/L	0.000892	0.00239	mg/L	0.000892	37.31%
Fe 273.955†	7.0	0.00613	mg/L	0.000321	0.00613	mg/L	0.000321	5.23%
K 766.490†	13.2	0.00908	mg/L	0.018160	0.00908	mg/L	0.018160	199.89%
Mg 279.077†	1.0	0.00111	mg/L	0.010984	0.00111	mg/L	0.010984	985.28%
Mn 257.610†	0.8	0.00002	mg/L	0.000053	0.00002	mg/L	0.000053	216.75%
Mo 202.031†	-4.4	-0.00025	mg/L	0.000322	-0.00025	mg/L	0.000322	126.26%
Na 589.592†	-35.8	-0.00302	mg/L	0.003978	-0.00302	mg/L	0.003978	131.83%
Na 330.237†	-1.6	-0.05614	mg/L	0.329847	-0.05614	mg/L	0.329847	587.51%
Ni 231.604†	3.9	0.00243	mg/L	0.000641	0.00243	mg/L	0.000641	26.35%
Pb 220.353†	-10.3	-0.00150	mg/L	0.000946	-0.00150	mg/L	0.000946	63.25%
Sb 206.836†	0.7	0.00028	mg/L	0.001241	0.00028	mg/L	0.001241	449.34%
Se 196.026†	5.3	0.00447	mg/L	0.002395	0.00447	mg/L	0.002395	53.57%
Si 288.158†	6.8	0.00458	mg/L	0.005693	0.00458	mg/L	0.005693	124.18%
Sn 189.927†	4.9	0.00133	mg/L	0.001107	0.00133	mg/L	0.001107	83.24%
Sr 421.552†	2.6	0.00000	mg/L	0.000049	0.00000	mg/L	0.000049	>999.9%
Ti 334.903†	9.1	0.00042	mg/L	0.000829	0.00042	mg/L	0.000829	199.37%
Tl 190.801†	0.9	0.00053	mg/L	0.000554	0.00053	mg/L	0.000554	104.76%
V 292.402†	17.1	0.00018	mg/L	0.000077	0.00018	mg/L	0.000077	43.36%
Zn 206.200†	-0.0	0.00000	mg/L	0.000342	0.00000	mg/L	0.000342	>999.9%

Sequence No.: 33
Sample ID: RG84 A SWC
Analyst: ALA
Dilution: 20X

DEL

Autosampler Location: 330
Date Collected: 8/6/2010 1:03:13 PM
Data Type: Original

Nebulizer Parameters: RG84 A SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG84 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1962171.8	103.2	%	0.50				0.49%
ScR 361.383	301260.1	102.9	%	0.25				0.24%
Ag 328.068†	115.5	0.00058	mg/L	0.000040	0.01165	mg/L	0.000793	6.81%
Al 308.215†	18074.9	14.26	mg/L	0.108	285.2	mg/L	2.16	0.76%
As 188.979†	25.4	0.03054	mg/L	0.001890	0.6108	mg/L	0.03780	6.19%
B 249.677†	26.8	0.00808	mg/L	0.001211	0.1615	mg/L	0.02423	15.00%
Ba 233.527†	477.5	0.1379	mg/L	0.00028	2.759	mg/L	0.0057	0.21%
Be 313.042†	141.1	0.00022	mg/L	0.000030	0.00443	mg/L	0.000610	13.75%
Ca 317.933†	138003.7	9.504	mg/L	0.0363	190.1	mg/L	0.73	0.38%
Cd 228.802†	679.0	0.03194	mg/L	0.000262	0.6387	mg/L	0.00525	0.82%
Co 228.616†	669.2	0.02023	mg/L	0.000241	0.4047	mg/L	0.00481	1.19%
Cr 267.716†	2212.8	0.4325	mg/L	0.00111	8.650	mg/L	0.0221	0.26%
Cu 324.752†	93424.3	0.3387	mg/L	0.00226	6.774	mg/L	0.0452	0.67%
Fe 273.955†	64541.1	56.44	mg/L	0.210	1129	mg/L	4.2	0.37%
K 766.490†	1137.0	0.7825	mg/L	0.00681	15.65	mg/L	0.136	0.87%
Mg 279.077†	4300.5	4.553	mg/L	0.0237	91.06	mg/L	0.473	0.52%
Mn 257.610†	18760.5	0.5956	mg/L	0.00225	11.91	mg/L	0.045	0.38%
Mo 202.031†	554.8	0.03211	mg/L	0.000394	0.6422	mg/L	0.00788	1.23%
Na 589.592†	5496.6	0.4632	mg/L	0.00188	9.264	mg/L	0.0376	0.41%
Na 330.237†	22.4	0.3814	mg/L	0.09533	7.628	mg/L	1.9066	24.99%
Ni 231.604†	430.9	0.2662	mg/L	0.00055	5.324	mg/L	0.0110	0.21%
Pb 220.353†	1242.8	0.1791	mg/L	0.00069	3.582	mg/L	0.0137	0.38%
Sb 206.836†	33.8	0.00947	mg/L	0.001252	0.1895	mg/L	0.02505	13.22%
Se 196.026†	10.2	0.00789	mg/L	0.002607	0.1577	mg/L	0.05213	33.06%
Si 288.158†	150.6	0.1021	mg/L	0.00088	2.042	mg/L	0.0177	0.87%
Sn 189.927†	88.6	0.02488	mg/L	0.001482	0.4975	mg/L	0.02964	5.96%
Sr 421.552†	34155.2	0.05401	mg/L	0.000194	1.080	mg/L	0.0039	0.36%
Ti 334.903†	15689.2	0.7138	mg/L	0.00235	14.28	mg/L	0.047	0.33%
Tl 190.801†	-10.8	0.00260	mg/L	0.002904	0.05194	mg/L	0.058076	111.82%
V 292.402†	5141.8	0.04773	mg/L	0.000359	0.9546	mg/L	0.00717	0.75%
Zn 206.200†	1672.0	2.696	mg/L	0.0196	53.93	mg/L	0.393	0.73%

Sequence No.: 34
Sample ID: RG84 ASPK SWC
Analyst: ALA
Dilution: 20X

DEL

Autosampler Location: 331
Date Collected: 8/6/2010 1:07:08 PM
Data Type: Original

Nebulizer Parameters: RG84 ASPK SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG84 ASPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1950212.0	102.6	%	1.68				1.64%
ScR 361.383	280681.3	95.90	%	0.196				0.20%
Ag 328.068†	8956.2	0.05158	mg/L	0.000822	1.032	mg/L	0.0164	1.59%
Al 308.215†	22207.1	17.52	mg/L	0.093	350.3	mg/L	1.85	0.53%
As 188.979†	293.7	0.2269	mg/L	0.00479	4.538	mg/L	0.0958	2.11%
B 249.677†	41.7	0.01244	mg/L	0.001994	0.2488	mg/L	0.03989	16.03%
Ba 233.527†	1305.3	0.3853	mg/L	0.00067	7.705	mg/L	0.0134	0.17%
Be 313.042†	28059.8	0.05100	mg/L	0.000348	1.020	mg/L	0.0070	0.68%
Ca 317.933†	171729.9	11.83	mg/L	0.079	236.5	mg/L	1.58	0.67%
Cd 228.802†	1813.3	0.08451	mg/L	0.001402	1.690	mg/L	0.0280	1.66%
Co 228.616†	2303.5	0.07409	mg/L	0.001440	1.482	mg/L	0.0288	1.94%
Cr 267.716†	2845.2	0.5558	mg/L	0.00248	11.12	mg/L	0.050	0.45%
Cu 324.752†	129128.7	0.4674	mg/L	0.00684	9.349	mg/L	0.1368	1.46%
Fe 273.955†	76263.4	66.70	mg/L	0.342	1334	mg/L	6.8	0.51%
K 766.490†	2845.5	1.958	mg/L	0.0137	39.16	mg/L	0.274	0.70%
Mg 279.077†	5976.0	6.333	mg/L	0.0150	126.7	mg/L	0.30	0.24%
Mn 257.610†	26447.7	0.8396	mg/L	0.00498	16.79	mg/L	0.100	0.59%
Mo 202.031†	675.2	0.03907	mg/L	0.001223	0.7815	mg/L	0.02446	3.13%
Na 589.592†	18521.4	1.561	mg/L	0.0080	31.22	mg/L	0.161	0.52%
Na 330.237†	57.2	1.479	mg/L	0.1455	29.59	mg/L	2.910	9.83%
Ni 231.604†	602.3	0.3720	mg/L	0.00096	7.440	mg/L	0.0192	0.26%
Pb 220.353†	2831.8	0.4094	mg/L	0.00754	8.188	mg/L	0.1508	1.84%
Sb 206.836†	33.2	0.00819	mg/L	0.001985	0.1639	mg/L	0.03971	24.23%
Se 196.026†	242.6	0.2030	mg/L	0.00245	4.060	mg/L	0.0490	1.21%
Si 288.158†	183.7	0.1247	mg/L	0.00672	2.494	mg/L	0.1344	5.39%
Sn 189.927†	63.0	0.01807	mg/L	0.000280	0.3613	mg/L	0.00561	1.55%
Sr 421.552†	73369.0	0.1160	mg/L	0.00069	2.321	mg/L	0.0139	0.60%
Ti 334.903†	18172.9	0.8267	mg/L	0.00205	16.53	mg/L	0.041	0.25%
Tl 190.801†	325.3	0.1996	mg/L	0.00508	3.991	mg/L	0.1016	2.54%
V 292.402†	9996.8	0.09649	mg/L	0.001394	1.930	mg/L	0.0279	1.44%
Zn 206.200†	2045.6	3.299	mg/L	0.0015	65.98	mg/L	0.031	0.05%

Sequence No.: 35
Sample ID: CV (c)
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 1:11:04 PM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1957447.6	102.9	%	0.54				0.52%
ScR 361.383	279819.4	95.61	%	0.434				0.45%
Ag 328.068†	182737.1	1.055	mg/L	0.0086	1.055	mg/L	0.0086	0.81%
Al 308.215†	2932.8	2.281	mg/L	0.0221	2.281	mg/L	0.0221	0.97%
As 188.979†	2929.9	2.141	mg/L	0.0094	2.141	mg/L	0.0094	0.44%
B 249.677†	3642.5	1.099	mg/L	0.0085	1.099	mg/L	0.0085	0.77%
Ba 233.527†	3554.8	1.066	mg/L	0.0095	1.066	mg/L	0.0095	0.90%
Be 313.042†	598145.8	1.088	mg/L	0.0045	1.088	mg/L	0.0045	0.41%
Ca 317.933†	33303.2	2.294	mg/L	0.0084	2.294	mg/L	0.0084	0.37%
Cd 228.802†	22863.0	1.065	mg/L	0.0088	1.065	mg/L	0.0088	0.82%
Co 228.616†	31410.3	1.040	mg/L	0.0064	1.040	mg/L	0.0064	0.61%
Cr 267.716†	5532.1	1.076	mg/L	0.0076	1.076	mg/L	0.0076	0.71%
Cu 324.752†	292531.9	1.048	mg/L	0.0070	1.048	mg/L	0.0070	0.67%
Fe 273.955†	2587.3	2.257	mg/L	0.0106	2.257	mg/L	0.0106	0.47%
K 766.490†	32808.6	22.58	mg/L	0.127	22.58	mg/L	0.127	0.56%
Mg 279.077†	2131.3	2.276	mg/L	0.0148	2.276	mg/L	0.0148	0.65%
Mn 257.610†	32116.3	1.020	mg/L	0.0049	1.020	mg/L	0.0049	0.48%
Mo 202.031†	17832.2	1.037	mg/L	0.0045	1.037	mg/L	0.0045	0.43%
Na 589.592†	635507.5	53.55	mg/L	0.240	53.55	mg/L	0.240	0.45%
Na 330.237†	1666.3	57.33	mg/L	0.209	57.33	mg/L	0.209	0.37%
Ni 231.604†	1820.0	1.126	mg/L	0.0098	1.126	mg/L	0.0098	0.87%
Pb 220.353†	14593.5	2.117	mg/L	0.0068	2.117	mg/L	0.0068	0.32%
Sb 206.836†	5810.9	2.171	mg/L	0.0052	2.171	mg/L	0.0052	0.24%
Se 196.026†	2555.2	2.146	mg/L	0.0007	2.146	mg/L	0.0007	0.03%
Si 288.158†	3484.1	2.363	mg/L	0.0167	2.363	mg/L	0.0167	0.71%
Sn 189.927†	3895.9	1.062	mg/L	0.0039	1.062	mg/L	0.0039	0.37%
Sr 421.552†	708433.6	1.120	mg/L	0.0022	1.120	mg/L	0.0022	0.19%
Ti 334.903†	24224.2	1.102	mg/L	0.0037	1.102	mg/L	0.0037	0.34%
Tl 190.801†	3614.7	2.102	mg/L	0.0083	2.102	mg/L	0.0083	0.39%
V 292.402†	102010.2	1.042	mg/L	0.0050	1.042	mg/L	0.0050	0.48%
Zn 206.200†	708.4	1.142	mg/L	0.0076	1.142	mg/L	0.0076	0.67%

Sequence No.: 36
Sample ID: CB
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 1:15:17 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1933164.1	101.7	%	0.47				0.46%
ScR 361.383	298093.0	101.8	%	1.07				1.05%
Ag 328.068†	-47.1	-0.00027	mg/L	0.000241	-0.00027	mg/L	0.000241	88.43%
Al 308.215†	-4.5	-0.00354	mg/L	0.007758	-0.00354	mg/L	0.007758	219.32%
As 188.979†	2.8	0.00201	mg/L	0.000846	0.00201	mg/L	0.000846	42.17%
B 249.677†	-2.3	-0.00070	mg/L	0.001169	-0.00070	mg/L	0.001169	167.83%
Ba 233.527†	0.2	0.00005	mg/L	0.000860	0.00005	mg/L	0.000860	>999.9%
Be 313.042†	44.9	0.00008	mg/L	0.000069	0.00008	mg/L	0.000069	84.36%
Ca 317.933†	3.6	0.00025	mg/L	0.000311	0.00025	mg/L	0.000311	123.74%
Cd 228.802†	-0.2	-0.00001	mg/L	0.000129	-0.00001	mg/L	0.000129	891.87%
Co 228.616†	1.2	0.00004	mg/L	0.000179	0.00004	mg/L	0.000179	451.45%
Cr 267.716†	2.1	0.00040	mg/L	0.000978	0.00040	mg/L	0.000978	242.98%
Cu 324.752†	288.8	0.00104	mg/L	0.000110	0.00104	mg/L	0.000110	10.57%
Fe 273.955†	2.1	0.00185	mg/L	0.000772	0.00185	mg/L	0.000772	41.75%
K 766.490†	-1.6	-0.00108	mg/L	0.011203	-0.00108	mg/L	0.011203	>999.9%
Mg 279.077†	5.7	0.00608	mg/L	0.003921	0.00608	mg/L	0.003921	64.46%
Mn 257.610†	2.0	0.00006	mg/L	0.000121	0.00006	mg/L	0.000121	189.06%
Mo 202.031†	3.7	0.00022	mg/L	0.000185	0.00022	mg/L	0.000185	85.12%
Na 589.592†	60.8	0.00512	mg/L	0.005848	0.00512	mg/L	0.005848	114.15%
Na 330.237†	10.7	0.3683	mg/L	0.57800	0.3683	mg/L	0.57800	156.94%
Ni 231.604†	4.5	0.00279	mg/L	0.001834	0.00279	mg/L	0.001834	65.68%
Pb 220.353†	-7.5	-0.00109	mg/L	0.000947	-0.00109	mg/L	0.000947	87.13%
Sb 206.836†	7.3	0.00271	mg/L	0.002238	0.00271	mg/L	0.002238	82.55%
Se 196.026†	5.0	0.00423	mg/L	0.003564	0.00423	mg/L	0.003564	84.31%
Si 288.158†	13.1	0.00887	mg/L	0.002571	0.00887	mg/L	0.002571	28.98%
Sn 189.927†	1.8	0.00050	mg/L	0.000693	0.00050	mg/L	0.000693	139.66%
Sr 421.552†	26.2	0.00004	mg/L	0.000067	0.00004	mg/L	0.000067	162.79%
Ti 334.903†	2.3	0.00011	mg/L	0.000727	0.00011	mg/L	0.000727	688.12%
Tl 190.801†	-1.3	-0.00077	mg/L	0.002644	-0.00077	mg/L	0.002644	342.04%
V 292.402†	-8.9	-0.00009	mg/L	0.000257	-0.00009	mg/L	0.000257	288.58%
Zn 206.200†	-0.0	-0.00002	mg/L	0.002701	-0.00002	mg/L	0.002701	>999.9%

Sequence No.: 37
Sample ID: RG83 MB LEN
Analyst: ALA
Dilution: 5X

Autosampler Location: 332
Date Collected: 8/6/2010 1:19:28 PM
Data Type: Original

Nebulizer Parameters: RG83 MB LEN

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG83 MB LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1870734.6	98.37	%	1.417				1.44%
ScR 361.383	285236.2	97.46	%	0.521				0.53%
Ag 328.068†	-27.8	-0.00016	mg/L	0.000181	-0.00080	mg/L	0.000906	112.93%
Al 308.215†	2.1	0.00164	mg/L	0.007325	0.00819	mg/L	0.036624	446.96%
As 188.979†	0.6	0.00045	mg/L	0.003575	0.00226	mg/L	0.017873	790.40%
B 249.677†	36.6	0.01106	mg/L	0.000813	0.05529	mg/L	0.004063	7.35%
Ba 233.527†	31.6	0.00948	mg/L	0.000523	0.04741	mg/L	0.002614	5.51%
Be 313.042†	32.4	0.00006	mg/L	0.000011	0.00029	mg/L	0.000056	18.94%
Ca 317.933†	2087.0	0.1437	mg/L	0.00178	0.7186	mg/L	0.00891	1.24%
Cd 228.802†	1.9	0.00009	mg/L	0.000083	0.00044	mg/L	0.000413	94.74%
Co 228.616†	1.1	0.00003	mg/L	0.000181	0.00017	mg/L	0.000904	547.66%
Cr 267.716†	-1.1	-0.00022	mg/L	0.002164	-0.00111	mg/L	0.010818	978.10%
Cu 324.752†	755.9	0.00271	mg/L	0.000502	0.01355	mg/L	0.002509	18.51%
Fe 273.955†	-0.9	-0.00078	mg/L	0.001377	-0.00392	mg/L	0.006884	175.51%
K 766.490†	130.6	0.08986	mg/L	0.006484	0.4493	mg/L	0.03242	7.22%
Mg 279.077†	12.5	0.01334	mg/L	0.001838	0.06672	mg/L	0.009192	13.78%
Mn 257.610†	0.3	0.00001	mg/L	0.000199	0.00005	mg/L	0.000993	>999.9%
Mo 202.031†	-4.8	-0.00028	mg/L	0.000396	-0.00142	mg/L	0.001979	139.47%
Na 589.592†	3482622.1	293.5	mg/L	1.91	1467	mg/L	9.6	0.65%
Na 330.237†	8908.5	306.3	mg/L	2.71	1531	mg/L	13.5	0.88%
Ni 231.604†	3.5	0.00218	mg/L	0.000788	0.01089	mg/L	0.003939	36.16%
Pb 220.353†	-7.0	-0.00102	mg/L	0.001204	-0.00510	mg/L	0.006019	117.96%
Sb 206.836†	4.9	0.00185	mg/L	0.000477	0.00923	mg/L	0.002385	25.84%
Se 196.026†	9.4	0.00790	mg/L	0.001996	0.03952	mg/L	0.009981	25.25%
Si 288.158†	41.2	0.02793	mg/L	0.002194	0.1396	mg/L	0.01097	7.86%
Sn 189.927†	3.2	0.00089	mg/L	0.000747	0.00444	mg/L	0.003735	84.12%
Sr 421.552†	163.6	0.00026	mg/L	0.000051	0.00129	mg/L	0.000256	19.76%
Ti 334.903†	13.9	0.00063	mg/L	0.000586	0.00313	mg/L	0.002932	93.80%
Tl 190.801†	-0.8	-0.00049	mg/L	0.000175	-0.00243	mg/L	0.000874	36.02%
V 292.402†	6.8	0.00007	mg/L	0.000422	0.00034	mg/L	0.002112	625.85%
Zn 206.200†	2.1	0.00336	mg/L	0.001339	0.01679	mg/L	0.006696	39.88%

Sequence No.: 38
Sample ID: RG83 ADUP LEN
Analyst: ALA
Dilution: 5X

Autosampler Location: 333
Date Collected: 8/6/2010 1:23:41 PM
Data Type: Original

Nebulizer Parameters: RG83 ADUP LEN

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG83 ADUP LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1882751.0	99.00	%	1.087				1.10%
ScR 361.383	290717.3	99.33	%	0.732				0.74%
Ag 328.068†	49.7	-0.00005	mg/L	0.000331	-0.00025	mg/L	0.001657	664.59%
Al 308.215†	175.5	0.1384	mg/L	0.00129	0.6920	mg/L	0.00643	0.93%
As 188.979†	11.4	0.00628	mg/L	0.002026	0.03141	mg/L	0.010129	32.25%
B 249.677†	223.6	0.06753	mg/L	0.000492	0.3377	mg/L	0.00246	0.73%
Ba 233.527†	1131.7	0.3389	mg/L	0.00328	1.694	mg/L	0.0164	0.97%
Be 313.042†	80.9	0.00015	mg/L	0.000009	0.00074	mg/L	0.000044	5.94%
Ca 317.933†	994249.4	68.47	mg/L	0.706	342.4	mg/L	3.53	1.03%
Cd 228.802†	1463.6	0.06864	mg/L	0.000808	0.3432	mg/L	0.00404	1.18%
Co 228.616†	325.3	0.01071	mg/L	0.000155	0.05354	mg/L	0.000774	1.45%
Cr 267.716†	16.0	0.00118	mg/L	0.000931	0.00592	mg/L	0.004654	78.56%
Cu 324.752†	221136.7	0.7929	mg/L	0.00381	3.965	mg/L	0.0190	0.48%
Fe 273.955†	70.7	0.06181	mg/L	0.000935	0.3091	mg/L	0.00467	1.51%
K 766.490†	5659.4	3.894	mg/L	0.0412	19.47	mg/L	0.206	1.06%
Mg 279.077†	4346.8	4.623	mg/L	0.0396	23.11	mg/L	0.198	0.86%
Mn 257.610†	53984.2	1.713	mg/L	0.0167	8.565	mg/L	0.0833	0.97%
Mo 202.031†	72.2	0.00302	mg/L	0.000232	0.01508	mg/L	0.001162	7.71%
Na 589.592†	3448448.0	290.6	mg/L	2.88	1453	mg/L	14.4	0.99%
Na 330.237†	8744.5	300.4	mg/L	5.31	1502	mg/L	26.5	1.77%
Ni 231.604†	150.7	0.09308	mg/L	0.001757	0.4654	mg/L	0.00878	1.89%
Pb 220.353†	2735.8	0.3957	mg/L	0.00393	1.978	mg/L	0.0197	0.99%
Sb 206.836†	12.8	0.00466	mg/L	0.000464	0.02330	mg/L	0.002318	9.95%
Se 196.026†	38.4	0.02762	mg/L	0.000839	0.1381	mg/L	0.00419	3.04%
Si 288.158†	2249.9	1.524	mg/L	0.0316	7.619	mg/L	0.1582	2.08%
Sn 189.927†	-42.0	-0.00824	mg/L	0.001003	-0.04119	mg/L	0.005016	12.18%
Sr 421.552†	103446.5	0.1636	mg/L	0.00209	0.8179	mg/L	0.01045	1.28%
Ti 334.903†	103.8	0.00045	mg/L	0.000157	0.00226	mg/L	0.000787	34.75%
Tl 190.801†	16.3	0.01109	mg/L	0.003238	0.05546	mg/L	0.016189	29.19%
V 292.402†	-18.4	0.00008	mg/L	0.000182	0.00041	mg/L	0.000909	223.86%
Zn 206.200†	1546.6	2.495	mg/L	0.0184	12.47	mg/L	0.092	0.74%

Sequence No.: 39
Sample ID: RG83 A LEN
Analyst: ALA
Dilution: 5X

Autosampler Location: 334
Date Collected: 8/6/2010 1:27:54 PM
Data Type: Original

Nebulizer Parameters: RG83 A LEN

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG83 A LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1882427.8	98.99	%	0.333				0.34%
ScR 361.383	288335.4	98.51	%	1.608				1.63%
Ag 328.068†	38.6	-0.00011	mg/L	0.000294	-0.00057	mg/L	0.001468	255.79%
Al 308.215†	175.8	0.1387	mg/L	0.00094	0.6934	mg/L	0.00470	0.68%
As 188.979†	13.1	0.00748	mg/L	0.003859	0.03740	mg/L	0.019293	51.58%
B 249.677†	224.0	0.06766	mg/L	0.002805	0.3383	mg/L	0.01403	4.15%
Ba 233.527†	1129.8	0.3383	mg/L	0.00526	1.691	mg/L	0.0263	1.55%
Be 313.042†	78.0	0.00014	mg/L	0.000027	0.00071	mg/L	0.000133	18.74%
Ca 317.933†	999440.9	68.83	mg/L	1.146	344.2	mg/L	5.73	1.67%
Cd 228.802†	1466.4	0.06877	mg/L	0.000815	0.3438	mg/L	0.00408	1.19%
Co 228.616†	329.7	0.01086	mg/L	0.000084	0.05428	mg/L	0.000422	0.78%
Cr 267.716†	13.4	0.00068	mg/L	0.000525	0.00338	mg/L	0.002623	77.55%
Cu 324.752†	220098.7	0.7892	mg/L	0.00531	3.946	mg/L	0.0265	0.67%
Fe 273.955†	71.9	0.06289	mg/L	0.002212	0.3144	mg/L	0.01106	3.52%
K 766.490†	5658.7	3.894	mg/L	0.1245	19.47	mg/L	0.623	3.20%
Mg 279.077†	4352.0	4.628	mg/L	0.0884	23.14	mg/L	0.442	1.91%
Mn 257.610†	54137.1	1.718	mg/L	0.0313	8.590	mg/L	0.1565	1.82%
Mo 202.031†	72.6	0.00303	mg/L	0.000458	0.01516	mg/L	0.002292	15.12%
Na 589.592†	3442564.7	290.1	mg/L	4.42	1450	mg/L	22.1	1.52%
Na 330.237†	8773.3	301.4	mg/L	3.67	1507	mg/L	18.4	1.22%
Ni 231.604†	149.0	0.09201	mg/L	0.002551	0.4601	mg/L	0.01276	2.77%
Pb 220.353†	2744.3	0.3969	mg/L	0.00207	1.985	mg/L	0.0104	0.52%
Sb 206.836†	12.5	0.00454	mg/L	0.000449	0.02272	mg/L	0.002244	9.88%
Se 196.026†	38.0	0.02725	mg/L	0.006303	0.1363	mg/L	0.03151	23.13%
Si 288.158†	2348.2	1.590	mg/L	0.0075	7.952	mg/L	0.0376	0.47%
Sn 189.927†	-40.2	-0.00773	mg/L	0.000134	-0.03867	mg/L	0.000670	1.73%
Sr 421.552†	103937.3	0.1644	mg/L	0.00279	0.8218	mg/L	0.01393	1.69%
Ti 334.903†	101.6	0.00033	mg/L	0.000386	0.00166	mg/L	0.001929	116.20%
Tl 190.801†	21.4	0.01409	mg/L	0.002590	0.07043	mg/L	0.012948	18.38%
V 292.402†	-16.8	0.00010	mg/L	0.000038	0.00048	mg/L	0.000188	39.32%
Zn 206.200†	1546.7	2.495	mg/L	0.0431	12.47	mg/L	0.215	1.73%

Sequence No.: 40
Sample ID: RG83 ASPK LEN
Analyst: ALA
Dilution: 5X

Autosampler Location: 335
Date Collected: 8/6/2010 1:32:07 PM
Data Type: Original

Nebulizer Parameters: RG83 ASPK LEN

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG83 ASPK LEN

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1871754.1	98.43	%	0.711				0.72%
ScR 361.383	286845.7	98.01	%	1.373				1.40%
Ag 328.068†	35218.4	0.2030	mg/L	0.00120	1.015	mg/L	0.0060	0.59%
Al 308.215†	1288.2	1.012	mg/L	0.0115	5.062	mg/L	0.0576	1.14%
As 188.979†	1228.7	0.8883	mg/L	0.00991	4.441	mg/L	0.0496	1.12%
B 249.677†	224.4	0.06725	mg/L	0.001814	0.3362	mg/L	0.00907	2.70%
Ba 233.527†	3821.6	1.146	mg/L	0.0144	5.728	mg/L	0.0722	1.26%
Be 313.042†	115132.0	0.2094	mg/L	0.00320	1.047	mg/L	0.0160	1.53%
Ca 317.933†	1061669.3	73.12	mg/L	1.121	365.6	mg/L	5.60	1.53%
Cd 228.802†	6223.7	0.2889	mg/L	0.00172	1.445	mg/L	0.0086	0.59%
Co 228.616†	6593.6	0.2185	mg/L	0.00090	1.093	mg/L	0.0045	0.41%
Cr 267.716†	1039.8	0.1998	mg/L	0.00195	0.9989	mg/L	0.00973	0.97%
Cu 324.752†	288882.4	1.036	mg/L	0.0048	5.180	mg/L	0.0240	0.46%
Fe 273.955†	1057.7	0.9239	mg/L	0.01206	4.619	mg/L	0.0603	1.31%
K 766.490†	12010.6	8.265	mg/L	0.1427	41.33	mg/L	0.714	1.73%
Mg 279.077†	8461.8	9.007	mg/L	0.1187	45.03	mg/L	0.593	1.32%
Mn 257.610†	60714.2	1.927	mg/L	0.0300	9.634	mg/L	0.1502	1.56%
Mo 202.031†	76.2	0.00316	mg/L	0.000399	0.01582	mg/L	0.001993	12.60%
Na 589.592†	3507979.7	295.6	mg/L	3.94	1478	mg/L	19.7	1.33%
Na 330.237†	8935.2	307.0	mg/L	3.40	1535	mg/L	17.0	1.11%
Ni 231.604†	487.3	0.3010	mg/L	0.00156	1.505	mg/L	0.0078	0.52%
Pb 220.353†	8590.5	1.245	mg/L	0.0103	6.224	mg/L	0.0517	0.83%
Sb 206.836†	19.7	0.00583	mg/L	0.002538	0.02917	mg/L	0.012688	43.49%
Se 196.026†	1094.8	0.9146	mg/L	0.00572	4.573	mg/L	0.0286	0.63%
Si 288.158†	2439.6	1.653	mg/L	0.0170	8.265	mg/L	0.0850	1.03%
Sn 189.927†	-39.2	-0.00728	mg/L	0.001234	-0.03641	mg/L	0.006168	16.94%
Sr 421.552†	239641.9	0.3790	mg/L	0.00649	1.895	mg/L	0.0324	1.71%
Ti 334.903†	114.1	0.00060	mg/L	0.000600	0.00298	mg/L	0.003000	100.76%
Tl 190.801†	1447.9	0.8429	mg/L	0.00965	4.215	mg/L	0.0483	1.15%
V 292.402†	20345.5	0.2079	mg/L	0.00078	1.040	mg/L	0.0039	0.37%
Zn 206.200†	1670.6	2.695	mg/L	0.0439	13.47	mg/L	0.220	1.63%

Sequence No.: 41
Sample ID: RG54 K SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 336
Date Collected: 8/6/2010 1:36:20 PM
Data Type: Original

Nebulizer Parameters: RG54 K SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG54 K SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1973145.2	103.8	%	1.00				0.96%
ScR 361.383	309877.1	105.9	%	1.07				1.01%
Ag 328.068†	-194.2	-0.00117	mg/L	0.000057	-0.00234	mg/L	0.000114	4.89%
Al 308.215†	244318.3	192.7	mg/L	2.09	385.5	mg/L	4.17	1.08%
As 188.979†	-264.8	-0.00255	mg/L	0.007005	-0.00511	mg/L	0.014011	274.36%
B 249.677†	26.5	0.00777	mg/L	0.002450	0.01555	mg/L	0.004899	31.51%
Ba 233.527†	2246.1	0.6556	mg/L	0.00819	1.311	mg/L	0.0164	1.25%
Be 313.042†	1358.0	0.00210	mg/L	0.000054	0.00420	mg/L	0.000108	2.57%
Ca 317.933†	594221.3	40.92	mg/L	0.524	81.85	mg/L	1.048	1.28%
Cd 228.802†	40.4	0.00276	mg/L	0.000249	0.00552	mg/L	0.000498	9.02%
Co 228.616†	2865.5	0.07475	mg/L	0.001023	0.1495	mg/L	0.00205	1.37%
Cr 267.716†	1669.3	0.3257	mg/L	0.00194	0.6513	mg/L	0.00389	0.60%
Cu 324.752†	44150.4	0.1669	mg/L	0.00218	0.3337	mg/L	0.00437	1.31%
Fe 273.955†	218225.9	190.8	mg/L	2.35	381.7	mg/L	4.69	1.23%
K 766.490†	10812.4	7.441	mg/L	0.1141	14.88	mg/L	0.228	1.53%
Mg 279.077†	52457.7	55.79	mg/L	0.734	111.6	mg/L	1.47	1.31%
Mn 257.610†	84670.7	2.687	mg/L	0.0386	5.373	mg/L	0.0772	1.44%
Mo 202.031†	133.8	0.00707	mg/L	0.000051	0.01414	mg/L	0.000101	0.72%
Na 589.592†	24182.3	2.038	mg/L	0.0230	4.076	mg/L	0.0460	1.13%
Na 330.237†	-28.1	2.110	mg/L	0.1689	4.221	mg/L	0.3378	8.00%
Ni 231.604†	564.6	0.3487	mg/L	0.00380	0.6975	mg/L	0.00761	1.09%
Pb 220.353†	-13.6	0.01776	mg/L	0.000837	0.03552	mg/L	0.001675	4.71%
Sb 206.836†	29.2	0.02246	mg/L	0.002471	0.04493	mg/L	0.004941	11.00%
Se 196.026†	47.5	0.03712	mg/L	0.000275	0.07423	mg/L	0.000551	0.74%
Si 288.158†	8681.6	5.879	mg/L	0.0718	11.76	mg/L	0.144	1.22%
Sn 189.927†	-47.3	-0.00614	mg/L	0.000966	-0.01227	mg/L	0.001932	15.74%
Sr 421.552†	176016.1	0.2784	mg/L	0.00345	0.5567	mg/L	0.00689	1.24%
Ti 334.903†	231642.5	10.55	mg/L	0.130	21.09	mg/L	0.260	1.23%
Tl 190.801†	-40.5	0.00672	mg/L	0.003270	0.01343	mg/L	0.006539	48.68%
V 292.402†	47645.7	0.4597	mg/L	0.00833	0.9194	mg/L	0.01666	1.81%
Zn 206.200†	202.0	0.3203	mg/L	0.00537	0.6407	mg/L	0.01074	1.68%

Sequence No.: 42
Sample ID: RG54 L SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 337
Date Collected: 8/6/2010 1:40:02 PM
Data Type: Original

Nebulizer Parameters: RG54 L SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG54 L SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1959946.8	103.1	%	0.67				0.65%
ScR 361.383	305557.1	104.4	%	2.06				1.97%
Ag 328.068†	-135.7	-0.00096	mg/L	0.000119	-0.00192	mg/L	0.000237	12.38%
Al 308.215†	144242.5	113.8	mg/L	2.24	227.6	mg/L	4.49	1.97%
As 188.979†	-215.7	0.00393	mg/L	0.004534	0.00787	mg/L	0.009067	115.27%
B 249.677†	37.9	0.01124	mg/L	0.000908	0.02248	mg/L	0.001817	8.08%
Ba 233.527†	1696.4	0.4930	mg/L	0.01031	0.9859	mg/L	0.02062	2.09%
Be 313.042†	993.9	0.00149	mg/L	0.000084	0.00298	mg/L	0.000168	5.66%
Ca 317.933†	859841.4	59.22	mg/L	1.264	118.4	mg/L	2.53	2.13%
Cd 228.802†	49.0	0.00308	mg/L	0.000050	0.00616	mg/L	0.000099	1.61%
Co 228.616†	2718.8	0.07288	mg/L	0.000667	0.1458	mg/L	0.00133	0.91%
Cr 267.716†	1529.9	0.2965	mg/L	0.00590	0.5931	mg/L	0.01179	1.99%
Cu 324.752†	33503.7	0.1273	mg/L	0.00090	0.2547	mg/L	0.00180	0.70%
Fe 273.955†	188748.7	165.1	mg/L	3.06	330.1	mg/L	6.12	1.85%
K 766.490†	10729.5	7.384	mg/L	0.1049	14.77	mg/L	0.210	1.42%
Mg 279.077†	55666.9	59.22	mg/L	1.060	118.4	mg/L	2.12	1.79%
Mn 257.610†	93698.3	2.973	mg/L	0.0699	5.947	mg/L	0.1398	2.35%
Mo 202.031†	96.2	0.00457	mg/L	0.000259	0.00914	mg/L	0.000517	5.66%
Na 589.592†	42116.1	3.549	mg/L	0.0710	7.098	mg/L	0.1420	2.00%
Na 330.237†	29.9	3.784	mg/L	0.3565	7.568	mg/L	0.7130	9.42%
Ni 231.604†	658.4	0.4066	mg/L	0.01196	0.8133	mg/L	0.02391	2.94%
Pb 220.353†	35.3	0.01327	mg/L	0.001704	0.02654	mg/L	0.003409	12.85%
Sb 206.836†	20.6	0.01736	mg/L	0.002733	0.03472	mg/L	0.005465	15.74%
Se 196.026†	45.9	0.03457	mg/L	0.002300	0.06914	mg/L	0.004600	6.65%
Si 288.158†	6197.1	4.196	mg/L	0.0745	8.393	mg/L	0.1489	1.77%
Sn 189.927†	-46.6	-0.00582	mg/L	0.000279	-0.01164	mg/L	0.000558	4.80%
Sr 421.552†	234289.5	0.3705	mg/L	0.00611	0.7410	mg/L	0.01223	1.65%
Ti 334.903†	196984.8	8.967	mg/L	0.1691	17.93	mg/L	0.338	1.89%
Tl 190.801†	-27.9	0.01053	mg/L	0.001496	0.02106	mg/L	0.002991	14.20%
V 292.402†	41556.5	0.4014	mg/L	0.00107	0.8027	mg/L	0.00214	0.27%
Zn 206.200†	189.9	0.3031	mg/L	0.00644	0.6062	mg/L	0.01289	2.13%

Sequence No.: 43
Sample ID: CV 7
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 1:44:00 PM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1954719.7	102.8	%	0.44				0.43%
ScR 361.383	299087.4	102.2	%	0.43				0.42%
Ag 328.068†	184664.4	1.066	mg/L	0.0084	1.066	mg/L	0.0084	0.78%
Al 308.215†	2793.6	2.171	mg/L	0.0124	2.171	mg/L	0.0124	0.57%
As 188.979†	2967.0	2.167	mg/L	0.0035	2.167	mg/L	0.0035	0.16%
B 249.677†	3428.6	1.034	mg/L	0.0050	1.034	mg/L	0.0050	0.48%
Ba 233.527†	3342.7	1.002	mg/L	0.0045	1.002	mg/L	0.0045	0.45%
Be 313.042†	563352.2	1.025	mg/L	0.0075	1.025	mg/L	0.0075	0.73%
Ca 317.933†	31724.5	2.185	mg/L	0.0025	2.185	mg/L	0.0025	0.12%
Cd 228.802†	23169.3	1.079	mg/L	0.0044	1.079	mg/L	0.0044	0.41%
Co 228.616†	31913.6	1.057	mg/L	0.0049	1.057	mg/L	0.0049	0.46%
Cr 267.716†	5232.7	1.018	mg/L	0.0057	1.018	mg/L	0.0057	0.56%
Cu 324.752†	295258.4	1.058	mg/L	0.0066	1.058	mg/L	0.0066	0.62%
Fe 273.955†	2461.2	2.147	mg/L	0.0076	2.147	mg/L	0.0076	0.36%
K 766.490†	31295.4	21.54	mg/L	0.086	21.54	mg/L	0.086	0.40%
Mg 279.077†	2021.6	2.159	mg/L	0.0069	2.159	mg/L	0.0069	0.32%
Mn 257.610†	30470.2	0.9675	mg/L	0.00241	0.9675	mg/L	0.00241	0.25%
Mo 202.031†	17958.3	1.045	mg/L	0.0038	1.045	mg/L	0.0038	0.37%
Na 589.592†	597395.7	50.34	mg/L	0.330	50.34	mg/L	0.330	0.66%
Na 330.237†	1575.4	54.20	mg/L	0.218	54.20	mg/L	0.218	0.40%
Ni 231.604†	1716.9	1.062	mg/L	0.0057	1.062	mg/L	0.0057	0.54%
Pb 220.353†	14763.6	2.142	mg/L	0.0066	2.142	mg/L	0.0066	0.31%
Sb 206.836†	5867.6	2.192	mg/L	0.0089	2.192	mg/L	0.0089	0.41%
Se 196.026†	2584.8	2.171	mg/L	0.0144	2.171	mg/L	0.0144	0.66%
Si 288.158†	3299.2	2.238	mg/L	0.0120	2.238	mg/L	0.0120	0.53%
Sn 189.927†	3935.6	1.072	mg/L	0.0064	1.072	mg/L	0.0064	0.59%
Sr 421.552†	671040.1	1.061	mg/L	0.0048	1.061	mg/L	0.0048	0.46%
Ti 334.903†	23058.0	1.048	mg/L	0.0005	1.048	mg/L	0.0005	0.05%
Tl 190.801†	3656.6	2.126	mg/L	0.0095	2.126	mg/L	0.0095	0.45%
V 292.402†	103182.3	1.054	mg/L	0.0040	1.054	mg/L	0.0040	0.38%
Zn 206.200†	664.0	1.070	mg/L	0.0054	1.070	mg/L	0.0054	0.50%

Sequence No.: 44
Sample ID: CB
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 1:48:14 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1965201.6	103.3	%	0.56				0.54%
ScR 361.383	277407.8	94.78	%	2.560				2.70%
Ag 328.068†	9.5	0.00006	mg/L	0.000171	0.00006	mg/L	0.000171	310.61%
Al 308.215†	4.3	0.00339	mg/L	0.002702	0.00339	mg/L	0.002702	79.71%
As 188.979†	2.2	0.00161	mg/L	0.001778	0.00161	mg/L	0.001778	110.35%
B 249.677†	-6.9	-0.00208	mg/L	0.000991	-0.00208	mg/L	0.000991	47.71%
Ba 233.527†	6.4	0.00193	mg/L	0.000783	0.00193	mg/L	0.000783	40.51%
Be 313.042†	88.9	0.00016	mg/L	0.000089	0.00016	mg/L	0.000089	55.12%
Ca 317.933†	4.8	0.00033	mg/L	0.000303	0.00033	mg/L	0.000303	91.71%
Cd 228.802†	-3.2	-0.00015	mg/L	0.000112	-0.00015	mg/L	0.000112	72.43%
Co 228.616†	1.3	0.00004	mg/L	0.000370	0.00004	mg/L	0.000370	895.00%
Cr 267.716†	-9.0	-0.00176	mg/L	0.000737	-0.00176	mg/L	0.000737	41.86%
Cu 324.752†	299.1	0.00107	mg/L	0.000240	0.00107	mg/L	0.000240	22.41%
Fe 273.955†	3.9	0.00345	mg/L	0.004478	0.00345	mg/L	0.004478	129.89%
K 766.490†	64.3	0.04422	mg/L	0.030457	0.04422	mg/L	0.030457	68.87%
Mg 279.077†	3.6	0.00386	mg/L	0.003535	0.00386	mg/L	0.003535	91.52%
Mn 257.610†	1.3	0.00004	mg/L	0.000082	0.00004	mg/L	0.000082	198.93%
Mo 202.031†	1.4	0.00008	mg/L	0.000218	0.00008	mg/L	0.000218	267.40%
Na 589.592†	231.5	0.01950	mg/L	0.001391	0.01950	mg/L	0.001391	7.13%
Na 330.237†	-12.1	-0.4176	mg/L	0.64153	-0.4176	mg/L	0.64153	153.61%
Ni 231.604†	5.0	0.00311	mg/L	0.000803	0.00311	mg/L	0.000803	25.84%
Pb 220.353†	-5.0	-0.00073	mg/L	0.001208	-0.00073	mg/L	0.001208	166.14%
Sb 206.836†	10.5	0.00393	mg/L	0.000878	0.00393	mg/L	0.000878	22.32%
Se 196.026†	10.2	0.00853	mg/L	0.005833	0.00853	mg/L	0.005833	68.42%
Si 288.158†	19.9	0.01349	mg/L	0.002696	0.01349	mg/L	0.002696	19.99%
Sn 189.927†	2.6	0.00071	mg/L	0.000573	0.00071	mg/L	0.000573	80.34%
Sr 421.552†	85.7	0.00014	mg/L	0.000062	0.00014	mg/L	0.000062	45.49%
Ti 334.903†	-0.9	-0.00004	mg/L	0.000678	-0.00004	mg/L	0.000678	>999.9%
Tl 190.801†	4.5	0.00261	mg/L	0.001090	0.00261	mg/L	0.001090	41.78%
V 292.402†	23.3	0.00023	mg/L	0.000155	0.00023	mg/L	0.000155	67.28%
Zn 206.200†	0.3	0.00042	mg/L	0.001796	0.00042	mg/L	0.001796	427.81%

Analysis Begun

Start Time: 8/6/2010 1:52:18 PM
Logged In Analyst: metals
Spectrometer Model: Optima 7300 DV, S/N 077C8121202
Plasma On Time: 8/6/2010 7:12:02 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0806.sif
Batch ID:
Results Data Set: I2100806
Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 1
Sample ID: STD3

Date Collected: 8/6/2010 1:52:19 PM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1954813.3	5813.40	0.30%	102.8	%
ScR 361.383	295724.9	315.66	0.11%	101.0	%
Ag 328.068†	177312.5	765.91	0.43%	[1.0]	mg/L
As 188.979†	14742.9	35.10	0.24%	[10]	mg/L
B 249.677†	34675.4	194.94	0.56%	[10]	mg/L
Be 313.042†	2888680.3	7581.16	0.26%	[5.0]	mg/L
Na 589.592†	596114.2	1019.54	0.17%	[50]	mg/L
Ni 231.604†	17029.6	43.01	0.25%	[10]	mg/L
Pb 220.353†	73686.8	28.65	0.04%	[10]	mg/L
Se 196.026†	12698.7	37.82	0.30%	[10]	mg/L
Sr 421.552†	3349510.2	40161.81	1.20%	[5]	mg/L
Tl 190.801†	18095.1	13.81	0.08%	[10]	mg/L
Zn 206.200†	6788.1	42.17	0.62%	[10]	mg/L

Analysis Begun

Start Time: 8/6/2010 1:57:52 PM **Plasma On Time: 8/6/2010 7:12:02 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C8121202Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0806.sif
Batch ID:
Results Data Set: I2100806
Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CV **Date Collected: 8/6/2010 1:57:54 PM**
Analyst: ALA **Data Type: Original**
Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1967341.3	103.5	%	1.14				1.10%
ScR 361.383	299324.1	102.3	%	0.81				0.80%
Ag 328.068†	182746.7	1.031	mg/L	0.0142	1.031	mg/L	0.0142	1.38%
Al 308.215†	2762.0	2.146	mg/L	0.0161	2.146	mg/L	0.0161	0.75%
As 188.979†	2954.2	2.021	mg/L	0.0290	2.021	mg/L	0.0290	1.43%
B 249.677†	3457.4	0.9953	mg/L	0.00969	0.9953	mg/L	0.00969	0.97%
Ba 233.527†	3328.7	0.9978	mg/L	0.01040	0.9978	mg/L	0.01040	1.04%
Be 313.042†	564286.9	0.9762	mg/L	0.00558	0.9762	mg/L	0.00558	0.57%
Ca 317.933†	31389.1	2.162	mg/L	0.0118	2.162	mg/L	0.0118	0.55%
Cd 228.802†	22976.8	1.071	mg/L	0.0108	1.071	mg/L	0.0108	1.01%
Co 228.616†	31594.0	1.047	mg/L	0.0117	1.047	mg/L	0.0117	1.12%
Cr 267.716†	5208.9	1.013	mg/L	0.0079	1.013	mg/L	0.0079	0.78%
Cu 324.752†	293301.8	1.051	mg/L	0.0115	1.051	mg/L	0.0115	1.09%
Fe 273.955†	2415.4	2.107	mg/L	0.0146	2.107	mg/L	0.0146	0.69%
K 766.490†	31344.8	21.57	mg/L	0.066	21.57	mg/L	0.066	0.30%
Mg 279.077†	2008.9	2.146	mg/L	0.0181	2.146	mg/L	0.0181	0.84%
Mn 257.610†	30254.6	0.9606	mg/L	0.00372	0.9606	mg/L	0.00372	0.39%
Mo 202.031†	17855.0	1.039	mg/L	0.0126	1.039	mg/L	0.0126	1.21%
Na 589.592†	596062.8	50.00	mg/L	0.359	50.00	mg/L	0.359	0.72%
Na 330.237†	1569.0	54.01	mg/L	0.150	54.01	mg/L	0.150	0.28%
Ni 231.604†	1707.3	1.004	mg/L	0.0065	1.004	mg/L	0.0065	0.65%
Pb 220.353†	14675.0	1.993	mg/L	0.0214	1.993	mg/L	0.0214	1.08%
Sb 206.836†	5845.6	2.184	mg/L	0.0245	2.184	mg/L	0.0245	1.12%
Se 196.026†	2571.4	~~2.025~~	mg/L	0.0243	2.025	mg/L	0.0243	1.20%
Si 288.158†	3272.1	2.219	mg/L	0.0183	2.219	mg/L	0.0183	0.83%
Sn 189.927†	3916.4	1.067	mg/L	0.0135	1.067	mg/L	0.0135	1.26%
Sr 421.552†	671435.4	1.002	mg/L	0.0109	1.002	mg/L	0.0109	1.08%
Ti 334.903†	22961.0	1.044	mg/L	0.0061	1.044	mg/L	0.0061	0.58%
Tl 190.801†	3633.6	2.008	mg/L	0.0238	2.008	mg/L	0.0238	1.18%
V 292.402†	102865.0	1.050	mg/L	0.0099	1.050	mg/L	0.0099	0.94%
Zn 206.200†	662.8	0.9759	mg/L	0.01387	0.9759	mg/L	0.01387	1.42%

Sequence No.: 2
Sample ID: CB
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 2:02:07 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1962395.3	103.2	%	0.28				0.27%
ScR 361.383	304299.9	104.0	%	0.33				0.32%
Ag 328.068†	-44.9	-0.00025	mg/L	0.000065	-0.00025	mg/L	0.000065	25.57%
Al 308.215†	8.0	0.00629	mg/L	0.004634	0.00629	mg/L	0.004634	73.64%
As 188.979†	2.4	0.00159	mg/L	0.001397	0.00159	mg/L	0.001397	88.01%
B 249.677†	11.1	0.00320	mg/L	0.002945	0.00320	mg/L	0.002945	92.05%
Ba 233.527†	0.3	0.00008	mg/L	0.000613	0.00008	mg/L	0.000613	724.51%
Be 313.042†	62.2	0.00011	mg/L	0.000180	0.00011	mg/L	0.000180	167.05%
Ca 317.933†	14.0	0.00096	mg/L	0.001427	0.00096	mg/L	0.001427	148.09%
Cd 228.802†	-3.2	-0.00016	mg/L	0.000127	-0.00016	mg/L	0.000127	81.75%
Co 228.616†	4.8	0.00016	mg/L	0.000034	0.00016	mg/L	0.000034	21.50%
Cr 267.716†	1.2	0.00022	mg/L	0.001031	0.00022	mg/L	0.001031	462.69%
Cu 324.752†	323.3	0.00116	mg/L	0.000059	0.00116	mg/L	0.000059	5.06%
Fe 273.955†	-2.5	-0.00216	mg/L	0.001573	-0.00216	mg/L	0.001573	72.78%
K 766.490†	45.0	0.03095	mg/L	0.040942	0.03095	mg/L	0.040942	132.26%
Mg 279.077†	9.9	0.01060	mg/L	0.001830	0.01060	mg/L	0.001830	17.27%
Mn 257.610†	-1.7	-0.00005	mg/L	0.000271	-0.00005	mg/L	0.000271	502.30%
Mo 202.031†	-1.7	-0.00010	mg/L	0.000156	-0.00010	mg/L	0.000156	157.16%
Na 589.592†	239.6	0.02009	mg/L	0.009554	0.02009	mg/L	0.009554	47.54%
Na 330.237†	4.2	0.1429	mg/L	0.24819	0.1429	mg/L	0.24819	173.74%
Ni 231.604†	4.6	0.00268	mg/L	0.001059	0.00268	mg/L	0.001059	39.57%
Pb 220.353†	-8.7	-0.00118	mg/L	0.000556	-0.00118	mg/L	0.000556	47.05%
Sb 206.836†	8.3	0.00309	mg/L	0.001153	0.00309	mg/L	0.001153	37.25%
Se 196.026†	7.2	0.00568	mg/L	0.005404	0.00568	mg/L	0.005404	95.16%
Si 288.158†	10.2	0.00689	mg/L	0.001605	0.00689	mg/L	0.001605	23.28%
Sn 189.927†	3.8	0.00103	mg/L	0.000175	0.00103	mg/L	0.000175	17.01%
Sr 421.552†	76.1	0.00011	mg/L	0.000130	0.00011	mg/L	0.000130	114.20%
Ti 334.903†	-10.8	-0.00049	mg/L	0.000872	-0.00049	mg/L	0.000872	176.65%
Tl 190.801†	4.5	0.00251	mg/L	0.000759	0.00251	mg/L	0.000759	30.25%
V 292.402†	-2.2	-0.00002	mg/L	0.000158	-0.00002	mg/L	0.000158	762.20%
Zn 206.200†	-0.2	-0.00028	mg/L	0.001622	-0.00028	mg/L	0.001622	579.73%

Sequence No.: 3
Sample ID: RG84 D SWC
Analyst: ALA
Dilution: 10X

Autosampler Location: 322
Date Collected: 8/6/2010 2:06:18 PM
Data Type: Original

Nebulizer Parameters: RG84 D SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 D SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1986927.7	104.5	%	0.36				0.34%
ScR 361.383	308196.1	105.3	%	1.56				1.48%
Ag 328.068†	244.9	0.00118	mg/L	0.000143	0.01184	mg/L	0.001433	12.11%
Al 308.215†	28418.4	22.42	mg/L	0.359	224.2	mg/L	3.59	1.60%
As 188.979†	39.7	0.05091	mg/L	0.000375	0.5091	mg/L	0.00375	0.74%
B 249.677†	113.1	0.03253	mg/L	0.000718	0.3253	mg/L	0.00718	2.21%
Ba 233.527†	903.6	0.2590	mg/L	0.00539	2.590	mg/L	0.0539	2.08%
Be 313.042†	293.5	0.00042	mg/L	0.000028	0.00420	mg/L	0.000283	6.75%
Ca 317.933†	174257.4	12.00	mg/L	0.193	120.0	mg/L	1.93	1.61%
Cd 228.802†	1214.0	0.05692	mg/L	0.000450	0.5692	mg/L	0.00450	0.79%
Co 228.616†	1363.4	0.04127	mg/L	0.000417	0.4127	mg/L	0.00417	1.01%
Cr 267.716†	1385.0	0.2743	mg/L	0.00496	2.743	mg/L	0.0496	1.81%
Cu 324.752†	158188.8	0.5759	mg/L	0.00199	5.759	mg/L	0.0199	0.35%
Fe 273.955†	147624.4	129.1	mg/L	2.35	1291	mg/L	23.5	1.82%
K 766.490†	2075.9	1.429	mg/L	0.0637	14.29	mg/L	0.637	4.46%
Mg 279.077†	7437.7	7.859	mg/L	0.1220	78.59	mg/L	1.220	1.55%
Mn 257.610†	43791.3	1.390	mg/L	0.0276	13.90	mg/L	0.276	1.99%
Mo 202.031†	558.1	0.03226	mg/L	0.000507	0.3226	mg/L	0.00507	1.57%
Na 589.592†	12909.6	1.083	mg/L	0.0184	10.83	mg/L	0.184	1.70%
Na 330.237†	53.4	1.337	mg/L	0.1554	13.37	mg/L	1.554	11.62%
Ni 231.604†	286.4	0.1682	mg/L	0.00346	1.682	mg/L	0.0346	2.06%
Pb 220.353†	7931.5	1.071	mg/L	0.0062	10.71	mg/L	0.062	0.58%
Sb 206.836†	56.4	0.02074	mg/L	0.001615	0.2074	mg/L	0.01615	7.79%
Se 196.026†	12.3	0.00891	mg/L	0.001111	0.08906	mg/L	0.011113	12.48%
Si 288.158†	351.5	0.2382	mg/L	0.00975	2.382	mg/L	0.0975	4.09%
Sn 189.927†	104.1	0.02951	mg/L	0.000907	0.2951	mg/L	0.00907	3.07%
Sr 421.552†	44252.8	0.06606	mg/L	0.001153	0.6606	mg/L	0.01153	1.74%
Ti 334.903†	29921.6	1.362	mg/L	0.0246	13.62	mg/L	0.246	1.81%
Tl 190.801†	-22.1	0.00825	mg/L	0.001675	0.08252	mg/L	0.016755	20.30%
V 292.402†	13881.6	0.1279	mg/L	0.00032	1.279	mg/L	0.0032	0.25%
Zn 206.200†	2688.3	3.960	mg/L	0.0722	39.60	mg/L	0.722	1.82%

Sequence No.: 4
Sample ID: RG84 G SWC
Analyst: ALA
Dilution: 10X

Autosampler Location: 323
Date Collected: 8/6/2010 2:10:15 PM
Data Type: Original

Nebulizer Parameters: RG84 G SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 G SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1976214.2	103.9	%	0.97				0.93%
ScR 361.383	283449.6	96.85	%	0.846				0.87%
Ag 328.068†	448.6	0.00236	mg/L	0.000172	0.02358	mg/L	0.001717	7.28%
Al 308.215†	36994.1	29.18	mg/L	0.259	291.8	mg/L	2.59	0.89%
As 188.979†	-18.5	0.01772	mg/L	0.002215	0.1772	mg/L	0.02215	12.50%
B 249.677†	43.3	0.01239	mg/L	0.003048	0.1239	mg/L	0.03048	24.60%
Ba 233.527†	1348.8	0.3904	mg/L	0.00266	3.904	mg/L	0.0266	0.68%
Be 313.042†	360.5	0.00055	mg/L	0.000022	0.00550	mg/L	0.000217	3.95%
Ca 317.933†	282649.8	19.47	mg/L	0.211	194.7	mg/L	2.11	1.09%
Cd 228.802†	686.7	0.03240	mg/L	0.000398	0.3240	mg/L	0.00398	1.23%
Co 228.616†	1350.0	0.03988	mg/L	0.000438	0.3988	mg/L	0.00438	1.10%
Cr 267.716†	2301.0	0.4534	mg/L	0.00339	4.534	mg/L	0.0339	0.75%
Cu 324.752†	113410.3	0.4167	mg/L	0.00526	4.167	mg/L	0.0526	1.26%
Fe 273.955†	173188.1	151.5	mg/L	1.24	1515	mg/L	12.4	0.82%
K 766.490†	2952.4	2.032	mg/L	0.0250	20.32	mg/L	0.250	1.23%
Mg 279.077†	8550.1	9.032	mg/L	0.0515	90.32	mg/L	0.515	0.57%
Mn 257.610†	40416.9	1.283	mg/L	0.0130	12.83	mg/L	0.130	1.01%
Mo 202.031†	622.5	0.03587	mg/L	0.000577	0.3587	mg/L	0.00577	1.61%
Na 589.592†	14011.5	1.175	mg/L	0.0162	11.75	mg/L	0.162	1.38%
Na 330.237†	23.6	0.9842	mg/L	0.08704	9.842	mg/L	0.8704	8.84%
Ni 231.604†	441.3	0.2591	mg/L	0.00160	2.591	mg/L	0.0160	0.62%
Pb 220.353†	1807.9	0.2401	mg/L	0.00142	2.401	mg/L	0.0142	0.59%
Sb 206.836†	46.6	0.01542	mg/L	0.001103	0.1542	mg/L	0.01103	7.15%
Se 196.026†	13.2	0.00905	mg/L	0.003014	0.09052	mg/L	0.030136	33.29%
Si 288.158†	334.5	0.2266	mg/L	0.00249	2.266	mg/L	0.0249	1.10%
Sn 189.927†	51.0	0.01559	mg/L	0.001114	0.1559	mg/L	0.01114	7.14%
Sr 421.552†	85663.6	0.1279	mg/L	0.00089	1.279	mg/L	0.0089	0.70%
Ti 334.903†	38077.7	1.733	mg/L	0.0181	17.33	mg/L	0.181	1.05%
Tl 190.801†	-24.4	0.01026	mg/L	0.002924	0.1026	mg/L	0.02924	28.49%
V 292.402†	10399.4	0.09061	mg/L	0.001259	0.9061	mg/L	0.01259	1.39%
Zn 206.200†	1198.3	1.764	mg/L	0.0117	17.64	mg/L	0.117	0.66%

Sequence No.: 5
Sample ID: RG84 H SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 324
Date Collected: 8/6/2010 2:14:11 PM
Data Type: Original

Nebulizer Parameters: RG84 H SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 H SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1990795.1	104.7	%	0.88				0.84%
ScR 361.383	312321.2	106.7	%	1.12				1.05%
Ag 328.068†	189.1	0.00054	mg/L	0.000077	0.00108	mg/L	0.000154	14.29%
Al 308.215†	147405.6	116.3	mg/L	0.23	232.6	mg/L	0.46	0.20%
As 188.979†	-83.4	0.04413	mg/L	0.003692	0.08826	mg/L	0.007383	8.37%
B 249.677†	324.7	0.09342	mg/L	0.001229	0.1868	mg/L	0.00246	1.32%
Ba 233.527†	6369.6	1.890	mg/L	0.0276	3.781	mg/L	0.0551	1.46%
Be 313.042†	1199.1	0.00177	mg/L	0.000065	0.00355	mg/L	0.000130	3.66%
Ca 317.933†	1461639.3	100.7	mg/L	0.74	201.3	mg/L	1.47	0.73%
Cd 228.802†	641.9	0.03048	mg/L	0.000216	0.06096	mg/L	0.000432	0.71%
Co 228.616†	3313.5	0.09721	mg/L	0.000552	0.1944	mg/L	0.00110	0.57%
Cr 267.716†	3406.9	0.6652	mg/L	0.00924	1.330	mg/L	0.0185	1.39%
Cu 324.752†	531280.8	1.917	mg/L	0.0080	3.835	mg/L	0.0161	0.42%
Fe 273.955†	240520.0	210.3	mg/L	1.96	420.7	mg/L	3.92	0.93%
K 766.490†	13990.6	9.628	mg/L	0.1381	19.26	mg/L	0.276	1.43%
Mg 279.077†	41007.3	43.58	mg/L	0.249	87.15	mg/L	0.497	0.57%
Mn 257.610†	132511.1	4.206	mg/L	0.0273	8.411	mg/L	0.0547	0.65%
Mo 202.031†	995.4	0.05616	mg/L	0.000546	0.1123	mg/L	0.00109	0.97%
Na 589.592†	71067.0	5.961	mg/L	0.0301	11.92	mg/L	0.060	0.50%
Na 330.237†	270.7	6.603	mg/L	0.7186	13.21	mg/L	1.437	10.88%
Ni 231.604†	556.9	0.3271	mg/L	0.00549	0.6541	mg/L	0.01097	1.68%
Pb 220.353†	13826.4	1.880	mg/L	0.0137	3.760	mg/L	0.0273	0.73%
Sb 206.836†	71.9	0.02906	mg/L	0.002712	0.05812	mg/L	0.005424	9.33%
Se 196.026†	51.5	0.03371	mg/L	0.002904	0.06741	mg/L	0.005808	8.61%
Si 288.158†	1979.0	1.340	mg/L	0.0189	2.680	mg/L	0.0378	1.41%
Sn 189.927†	112.9	0.03801	mg/L	0.001496	0.07603	mg/L	0.002993	3.94%
Sr 421.552†	393357.0	0.5872	mg/L	0.00699	1.174	mg/L	0.0140	1.19%
Ti 334.903†	126791.6	5.767	mg/L	0.0547	11.53	mg/L	0.109	0.95%
Tl 190.801†	-30.8	0.01769	mg/L	0.004308	0.03537	mg/L	0.008615	24.36%
V 292.402†	45057.7	0.4357	mg/L	0.00412	0.8715	mg/L	0.00823	0.94%
Zn 206.200†	13929.9	20.52	mg/L	0.067	41.04	mg/L	0.133	0.33%

Sequence No.: 6
Sample ID: RG84 I SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 325
Date Collected: 8/6/2010 2:18:09 PM
Data Type: Original

Nebulizer Parameters: RG84 I SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 I SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1987787.4	104.5	%	1.00				0.95%
ScR 361.383	307877.2	105.2	%	1.04				0.99%
Ag 328.068†	-93.7	-0.00064	mg/L	0.000068	-0.00128	mg/L	0.000136	10.64%
Al 308.215†	199239.1	157.2	mg/L	1.52	314.3	mg/L	3.04	0.97%
As 188.979†	-175.6	0.04443	mg/L	0.002831	0.08887	mg/L	0.005662	6.37%
B 249.677†	50.8	0.01442	mg/L	0.000711	0.02884	mg/L	0.001421	4.93%
Ba 233.527†	1822.5	0.5247	mg/L	0.00448	1.049	mg/L	0.0090	0.85%
Be 313.042†	1666.1	0.00248	mg/L	0.000055	0.00496	mg/L	0.000110	2.23%
Ca 317.933†	943294.0	64.96	mg/L	0.720	129.9	mg/L	1.44	1.11%
Cd 228.802†	125.1	0.00638	mg/L	0.000326	0.01276	mg/L	0.000652	5.11%
Co 228.616†	2982.3	0.08053	mg/L	0.001328	0.1611	mg/L	0.00266	1.65%
Cr 267.716†	1065.2	0.2094	mg/L	0.00406	0.4188	mg/L	0.00811	1.94%
Cu 324.752†	86729.4	0.3229	mg/L	0.00285	0.6458	mg/L	0.00570	0.88%
Fe 273.955†	263567.0	230.5	mg/L	2.51	461.0	mg/L	5.01	1.09%
K 766.490†	15291.3	10.52	mg/L	0.070	21.05	mg/L	0.141	0.67%
Mg 279.077†	52927.4	56.27	mg/L	0.520	112.5	mg/L	1.04	0.92%
Mn 257.610†	90590.0	2.875	mg/L	0.0295	5.750	mg/L	0.0591	1.03%
Mo 202.031†	110.0	0.00527	mg/L	0.000561	0.01054	mg/L	0.001122	10.64%
Na 589.592†	74164.1	6.221	mg/L	0.0642	12.44	mg/L	0.128	1.03%
Na 330.237†	126.2	6.537	mg/L	0.2577	13.07	mg/L	0.515	3.94%
Ni 231.604†	324.8	0.1908	mg/L	0.00215	0.3815	mg/L	0.00430	1.13%
Pb 220.353†	455.9	0.07237	mg/L	0.002045	0.1447	mg/L	0.00409	2.83%
Sb 206.836†	29.5	0.02232	mg/L	0.001036	0.04463	mg/L	0.002072	4.64%
Se 196.026†	49.9	0.03488	mg/L	0.003580	0.06977	mg/L	0.007161	10.26%
Si 288.158†	1816.0	1.230	mg/L	0.0062	2.460	mg/L	0.0124	0.50%
Sn 189.927†	-39.0	-0.00341	mg/L	0.001574	-0.00683	mg/L	0.003149	46.10%
Sr 421.552†	297476.6	0.4441	mg/L	0.00480	0.8881	mg/L	0.00961	1.08%
Ti 334.903†	201050.3	9.151	mg/L	0.0903	18.30	mg/L	0.181	0.99%
Tl 190.801†	-45.4	0.01118	mg/L	0.002425	0.02235	mg/L	0.004849	21.70%
V 292.402†	57105.8	0.5520	mg/L	0.00801	1.104	mg/L	0.0160	1.45%
Zn 206.200†	2035.0	2.993	mg/L	0.0304	5.987	mg/L	0.0608	1.02%

Sequence No.: 7
Sample ID: RG84 J SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 326
Date Collected: 8/6/2010 2:21:51 PM
Data Type: Original

Nebulizer Parameters: RG84 J SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 J SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2015892.8	106.0	%	1.21				1.14%
ScR 361.383	312578.4	106.8	%	1.43				1.34%
Ag 328.068†	19.5	0.00005	mg/L	0.000256	0.00010	mg/L	0.000513	499.05%
Al 308.215†	164244.4	129.6	mg/L	1.76	259.1	mg/L	3.52	1.36%
As 188.979†	-197.8	0.02886	mg/L	0.005178	0.05772	mg/L	0.010357	17.94%
B 249.677†	48.8	0.01386	mg/L	0.000323	0.02773	mg/L	0.000646	2.33%
Ba 233.527†	1724.2	0.4976	mg/L	0.00758	0.9953	mg/L	0.01516	1.52%
Be 313.042†	1242.3	0.00180	mg/L	0.000055	0.00360	mg/L	0.000110	3.04%
Ca 317.933†	913311.0	62.90	mg/L	0.966	125.8	mg/L	1.93	1.54%
Cd 228.802†	144.3	0.00737	mg/L	0.000117	0.01474	mg/L	0.000235	1.59%
Co 228.616†	2611.0	0.06857	mg/L	0.001113	0.1371	mg/L	0.00223	1.62%
Cr 267.716†	1503.4	0.2944	mg/L	0.00335	0.5888	mg/L	0.00669	1.14%
Cu 324.752†	127241.8	0.4665	mg/L	0.00528	0.9330	mg/L	0.01056	1.13%
Fe 273.955†	233665.2	204.4	mg/L	3.39	408.7	mg/L	6.78	1.66%
K 766.490†	11729.1	8.071	mg/L	0.1497	16.14	mg/L	0.299	1.85%
Mg 279.077†	46620.8	49.56	mg/L	0.756	99.13	mg/L	1.511	1.52%
Mn 257.610†	77765.8	2.468	mg/L	0.0476	4.936	mg/L	0.0952	1.93%
Mo 202.031†	230.6	0.01232	mg/L	0.000548	0.02465	mg/L	0.001096	4.45%
Na 589.592†	74094.9	6.215	mg/L	0.1070	12.43	mg/L	0.214	1.72%
Na 330.237†	250.6	6.451	mg/L	0.3825	12.90	mg/L	0.765	5.93%
Ni 231.604†	419.9	0.2466	mg/L	0.00528	0.4931	mg/L	0.01056	2.14%
Pb 220.353†	5378.3	0.7375	mg/L	0.00767	1.475	mg/L	0.0153	1.04%
Sb 206.836†	25.7	0.01975	mg/L	0.001902	0.03949	mg/L	0.003804	9.63%
Se 196.026†	52.5	0.03705	mg/L	0.001350	0.07411	mg/L	0.002700	3.64%
Si 288.158†	2307.8	1.563	mg/L	0.0228	3.125	mg/L	0.0457	1.46%
Sn 189.927†	-13.4	0.00344	mg/L	0.001932	0.00689	mg/L	0.003863	56.11%
Sr 421.552†	185424.3	0.2768	mg/L	0.00432	0.5536	mg/L	0.00864	1.56%
Ti 334.903†	200500.1	9.127	mg/L	0.1518	18.25	mg/L	0.304	1.66%
Tl 190.801†	-35.3	0.01261	mg/L	0.001028	0.02521	mg/L	0.002057	8.16%
V 292.402†	46833.7	0.4506	mg/L	0.00753	0.9013	mg/L	0.01505	1.67%
Zn 206.200†	14391.9	21.20	mg/L	0.357	42.40	mg/L	0.714	1.68%

Sequence No.: 8
Sample ID: RG84 K SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 327
Date Collected: 8/6/2010 2:25:34 PM
Data Type: Original

Nebulizer Parameters: RG84 K SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 K SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2020191.1	106.2	%	0.22				0.21%
ScR 361.383	313527.2	107.1	%	1.36				1.27%
Ag 328.068†	5.2	-0.00004	mg/L	0.000090	-0.00007	mg/L	0.000180	246.25%
Al 308.215†	139218.2	109.8	mg/L	1.21	219.6	mg/L	2.42	1.10%
As 188.979†	-150.0	0.03529	mg/L	0.000687	0.07058	mg/L	0.001374	1.95%
B 249.677†	227.5	0.06539	mg/L	0.002254	0.1308	mg/L	0.00451	3.45%
Ba 233.527†	2208.6	0.6456	mg/L	0.00947	1.291	mg/L	0.0189	1.47%
Be 313.042†	1199.7	0.00174	mg/L	0.000077	0.00348	mg/L	0.000154	4.43%
Ca 317.933†	879984.9	60.60	mg/L	0.653	121.2	mg/L	1.31	1.08%
Cd 228.802†	172.8	0.00858	mg/L	0.000018	0.01715	mg/L	0.000036	0.21%
Co 228.616†	2844.0	0.07908	mg/L	0.000203	0.1582	mg/L	0.00041	0.26%
Cr 267.716†	1363.2	0.2669	mg/L	0.00373	0.5338	mg/L	0.00746	1.40%
Cu 324.752†	143267.6	0.5226	mg/L	0.00147	1.045	mg/L	0.0029	0.28%
Fe 273.955†	200213.1	175.1	mg/L	1.76	350.2	mg/L	3.51	1.00%
K 766.490†	10259.7	7.060	mg/L	0.0733	14.12	mg/L	0.147	1.04%
Mg 279.077†	38464.9	40.89	mg/L	0.361	81.78	mg/L	0.722	0.88%
Mn 257.610†	71283.8	2.262	mg/L	0.0207	4.525	mg/L	0.0413	0.91%
Mo 202.031†	214.8	0.01145	mg/L	0.000114	0.02289	mg/L	0.000227	0.99%
Na 589.592†	71599.4	6.006	mg/L	0.0659	12.01	mg/L	0.132	1.10%
Na 330.237†	150.1	6.518	mg/L	0.1554	13.04	mg/L	0.311	2.38%
Ni 231.604†	369.0	0.2167	mg/L	0.00299	0.4334	mg/L	0.00598	1.38%
Pb 220.353†	3183.4	0.4382	mg/L	0.00217	0.8765	mg/L	0.00434	0.50%
Sb 206.836†	23.5	0.01753	mg/L	0.000361	0.03506	mg/L	0.000723	2.06%
Se 196.026†	44.0	0.03054	mg/L	0.007578	0.06108	mg/L	0.015156	24.81%
Si 288.158†	2036.4	1.379	mg/L	0.0278	2.758	mg/L	0.0556	2.02%
Sn 189.927†	28.3	0.01402	mg/L	0.001853	0.02804	mg/L	0.003706	13.22%
Sr 421.552†	379096.0	0.5659	mg/L	0.00410	1.132	mg/L	0.0082	0.73%
Ti 334.903†	168793.0	7.683	mg/L	0.0745	15.37	mg/L	0.149	0.97%
Tl 190.801†	-27.6	0.01225	mg/L	0.002912	0.02450	mg/L	0.005825	23.77%
V 292.402†	47994.7	0.4663	mg/L	0.00360	0.9325	mg/L	0.00719	0.77%
Zn 206.200†	3203.2	4.716	mg/L	0.0686	9.431	mg/L	0.1371	1.45%

Sequence No.: 9
Sample ID: RG84 A SWC
Analyst: ALA
Dilution: 20X

Autosampler Location: 328
Date Collected: 8/6/2010 2:29:31 PM
Data Type: Original

Nebulizer Parameters: RG84 A SWC

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: RG84 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1981049.3	104.2	%	2.84				2.72%
ScR 361.383	305188.7	104.3	%	2.00				1.91%
Ag 328.068†	146.5	0.00074	mg/L	0.000346	0.01479	mg/L	0.006924	46.83%
Al 308.215†	18501.9	14.59	mg/L	0.436	291.9	mg/L	8.71	2.99%
As 188.979†	21.9	0.02737	mg/L	0.003377	0.5474	mg/L	0.06755	12.34%
B 249.677†	36.1	0.01039	mg/L	0.000910	0.2078	mg/L	0.01820	8.76%
Ba 233.527†	489.5	0.1414	mg/L	0.00211	2.827	mg/L	0.0423	1.50%
Be 313.042†	148.9	0.00022	mg/L	0.000061	0.00444	mg/L	0.001212	27.32%
Ca 317.933†	142246.2	9.796	mg/L	0.3042	195.9	mg/L	6.08	3.11%
Cd 228.802†	697.0	0.03279	mg/L	0.001065	0.6558	mg/L	0.02131	3.25%
Co 228.616†	689.6	0.02085	mg/L	0.000772	0.4170	mg/L	0.01543	3.70%
Cr 267.716†	2288.2	0.4472	mg/L	0.00727	8.945	mg/L	0.1453	1.62%
Cu 324.752†	94589.6	0.3430	mg/L	0.00837	6.860	mg/L	0.1674	2.44%
Fe 273.955†	66539.0	58.19	mg/L	1.828	1164	mg/L	36.6	3.14%
K 766.490†	1239.5	0.8530	mg/L	0.01497	17.06	mg/L	0.299	1.75%
Mg 279.077†	4420.0	4.680	mg/L	0.0832	93.59	mg/L	1.664	1.78%
Mn 257.610†	19327.9	0.6136	mg/L	0.01675	12.27	mg/L	0.335	2.73%
Mo 202.031†	564.7	0.03268	mg/L	0.001120	0.6536	mg/L	0.02239	3.43%
Na 589.592†	5671.0	0.4757	mg/L	0.01407	9.513	mg/L	0.2815	2.96%
Na 330.237†	28.3	0.6264	mg/L	0.16588	12.53	mg/L	3.318	26.48%
Ni 231.604†	444.5	0.2610	mg/L	0.00568	5.221	mg/L	0.1135	2.17%
Pb 220.353†	1268.0	0.1709	mg/L	0.00535	3.419	mg/L	0.1069	3.13%
Sb 206.836†	33.8	0.00936	mg/L	0.000946	0.1872	mg/L	0.01892	10.11%
Se 196.026†	14.2	0.01052	mg/L	0.006814	0.2105	mg/L	0.13628	64.75%
Si 288.158†	149.7	0.1015	mg/L	0.00015	2.029	mg/L	0.0030	0.15%
Sn 189.927†	91.4	0.02567	mg/L	0.000615	0.5134	mg/L	0.01231	2.40%
Sr 421.552†	35310.5	0.05271	mg/L	0.001574	1.054	mg/L	0.0315	2.99%
Ti 334.903†	16196.8	0.7369	mg/L	0.02023	14.74	mg/L	0.405	2.75%
Tl 190.801†	-5.7	0.00602	mg/L	0.002610	0.1205	mg/L	0.05220	43.33%
V 292.402†	5227.5	0.04847	mg/L	0.001314	0.9693	mg/L	0.02629	2.71%
Zn 206.200†	1730.8	2.549	mg/L	0.0401	50.98	mg/L	0.802	1.57%

Sequence No.: 10
Sample ID: RG84 ASPK SWC
Analyst: ALA
Dilution: 20X

Autosampler Location: 329
Date Collected: 8/6/2010 2:33:27 PM
Data Type: Original

Nebulizer Parameters: RG84 ASPK SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 ASPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1989623.1	104.6	%	2.11				2.02%
ScR 361.383	310811.4	106.2	%	2.41				2.27%
Ag 328.068†	9029.3	0.05082	mg/L	0.000944	1.016	mg/L	0.0189	1.86%
Al 308.215†	20595.3	16.25	mg/L	0.331	324.9	mg/L	6.62	2.04%
As 188.979†	300.3	0.2167	mg/L	0.00302	4.334	mg/L	0.0604	1.39%
B 249.677†	34.3	0.00973	mg/L	0.000682	0.1946	mg/L	0.01363	7.01%
Ba 233.527†	1219.4	0.3599	mg/L	0.01039	7.199	mg/L	0.2079	2.89%
Be 313.042†	25897.2	0.04476	mg/L	0.000993	0.8953	mg/L	0.01986	2.22%
Ca 317.933†	158651.3	10.93	mg/L	0.243	218.5	mg/L	4.85	2.22%
Cd 228.802†	1844.7	0.08599	mg/L	0.001927	1.720	mg/L	0.0385	2.24%
Co 228.616†	2352.2	0.07588	mg/L	0.001991	1.518	mg/L	0.0398	2.62%
Cr 267.716†	2695.3	0.5265	mg/L	0.01546	10.53	mg/L	0.309	2.94%
Cu 324.752†	129988.4	0.4702	mg/L	0.00874	9.404	mg/L	0.1748	1.86%
Fe 273.955†	70611.7	61.75	mg/L	1.311	1235	mg/L	26.2	2.12%
K 766.490†	2669.0	1.837	mg/L	0.0378	36.73	mg/L	0.756	2.06%
Mg 279.077†	5646.5	5.985	mg/L	0.1626	119.7	mg/L	3.25	2.72%
Mn 257.610†	24543.4	0.7791	mg/L	0.01784	15.58	mg/L	0.357	2.29%
Mo 202.031†	688.5	0.03986	mg/L	0.000758	0.7973	mg/L	0.01516	1.90%
Na 589.592†	17086.8	1.433	mg/L	0.0362	28.66	mg/L	0.724	2.52%
Na 330.237†	62.8	1.754	mg/L	0.1186	35.07	mg/L	2.372	6.76%
Ni 231.604†	569.1	0.3342	mg/L	0.00933	6.683	mg/L	0.1866	2.79%
Pb 220.353†	2881.6	0.3899	mg/L	0.00809	7.799	mg/L	0.1618	2.07%
Sb 206.836†	38.0	0.01024	mg/L	0.001733	0.2047	mg/L	0.03465	16.93%
Se 196.026†	252.0	0.1977	mg/L	0.00289	3.954	mg/L	0.0577	1.46%
Si 288.158†	169.6	0.1151	mg/L	0.00547	2.303	mg/L	0.1094	4.75%
Sn 189.927†	67.5	0.01922	mg/L	0.000564	0.3844	mg/L	0.01128	2.93%
Sr 421.552†	68570.5	0.1024	mg/L	0.00246	2.047	mg/L	0.0492	2.40%
Ti 334.903†	16868.5	0.7673	mg/L	0.01822	15.35	mg/L	0.364	2.37%
Tl 190.801†	334.8	0.1947	mg/L	0.00414	3.893	mg/L	0.0828	2.13%
V 292.402†	10223.7	0.09923	mg/L	0.001847	1.985	mg/L	0.0369	1.86%
Zn 206.200†	1943.6	2.863	mg/L	0.0750	57.25	mg/L	1.500	2.62%

Sequence No.: 11
Sample ID: RG84 ADUP SWC
Analyst: ALA
Dilution: 20X

Autosampler Location: 330
Date Collected: 8/6/2010 2:37:23 PM
Data Type: Original

Nebulizer Parameters: RG84 ADUP SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG84 ADUP SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2018469.4	106.1	%	0.70				0.66%
ScR 361.383	309773.5	105.8	%	0.41				0.39%
Ag 328.068†	665.6	0.00366	mg/L	0.000167	0.07325	mg/L	0.003340	4.56%
Al 308.215†	21659.8	17.09	mg/L	0.036	341.7	mg/L	0.72	0.21%
As 188.979†	28.0	0.03212	mg/L	0.002228	0.6424	mg/L	0.04455	6.94%
B 249.677†	30.9	0.00886	mg/L	0.000687	0.1772	mg/L	0.01375	7.76%
Ba 233.527†	518.2	0.1496	mg/L	0.00095	2.993	mg/L	0.0190	0.64%
Be 313.042†	180.7	0.00028	mg/L	0.000019	0.00553	mg/L	0.000375	6.78%
Ca 317.933†	141351.5	9.735	mg/L	0.0424	194.7	mg/L	0.85	0.44%
Cd 228.802†	694.1	0.03264	mg/L	0.000245	0.6529	mg/L	0.00490	0.75%
Co 228.616†	807.4	0.02466	mg/L	0.000130	0.4933	mg/L	0.00260	0.53%
Cr 267.716†	2282.1	0.4462	mg/L	0.00269	8.925	mg/L	0.0537	0.60%
Cu 324.752†	8744525.0	31.36	mg/L	0.249	627.3	mg/L	4.97	0.79%
Fe 273.955†	70537.9	61.69	mg/L	0.254	1234	mg/L	5.1	0.41%
K 766.490†	1224.2	0.8424	mg/L	0.01840	16.85	mg/L	0.368	2.18%
Mg 279.077†	4467.0	4.728	mg/L	0.0261	94.56	mg/L	0.522	0.55%
Mn 257.610†	20223.4	0.6420	mg/L	0.00439	12.84	mg/L	0.088	0.68%
Mo 202.031†	574.2	0.03323	mg/L	0.000112	0.6647	mg/L	0.00223	0.34%
Na 589.592†	5797.8	0.4863	mg/L	0.00570	9.726	mg/L	0.1139	1.17%
Na 330.237†	27.4	0.5319	mg/L	0.18082	10.64	mg/L	3.616	34.00%
Ni 231.604†	447.8	0.2630	mg/L	0.00403	5.260	mg/L	0.0806	1.53%
Pb 220.353†	1578.1	0.1737	mg/L	0.00018	3.474	mg/L	0.0037	0.11%
Sb 206.836†	31.6	0.00847	mg/L	0.000822	0.1695	mg/L	0.01644	9.70%
Se 196.026†	13.2	0.00975	mg/L	0.002061	0.1951	mg/L	0.04122	21.13%
Si 288.158†	158.9	0.1077	mg/L	0.00387	2.154	mg/L	0.0775	3.60%
Sn 189.927†	54.0	0.01550	mg/L	0.000306	0.3100	mg/L	0.00612	1.97%
Sr 421.552†	36078.9	0.05386	mg/L	0.000158	1.077	mg/L	0.0032	0.29%
Ti 334.903†	16855.0	0.7668	mg/L	0.00389	15.34	mg/L	0.078	0.51%
Tl 190.801†	-6.9	0.00588	mg/L	0.001100	0.1176	mg/L	0.02199	18.71%
V 292.402†	5230.6	0.04811	mg/L	0.000178	0.9621	mg/L	0.00355	0.37%
Zn 206.200†	1934.6	2.849	mg/L	0.0129	56.99	mg/L	0.258	0.45%

Sequence No.: 12
Sample ID: DIL
Analyst: ALA
Dilution: 1X

Autosampler Location: 331
Date Collected: 8/6/2010 2:41:36 PM
Data Type: Original

Nebulizer Parameters: DIL

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: DIL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1980086.0	104.1	%	0.75				0.72%
ScR 361.383	304228.1	103.9	%	0.32				0.31%
Ag 328.068†	-15.7	-0.00009	mg/L	0.000054	-0.00009	mg/L	0.000054	61.57%
Al 308.215†	5.4	0.00427	mg/L	0.006088	0.00427	mg/L	0.006088	142.49%
As 188.979†	0.7	0.00046	mg/L	0.001246	0.00046	mg/L	0.001246	269.05%
B 249.677†	-10.8	-0.00311	mg/L	0.001037	-0.00311	mg/L	0.001037	33.39%
Ba 233.527†	1.4	0.00043	mg/L	0.000872	0.00043	mg/L	0.000872	201.23%
Be 313.042†	-2.1	0.00000	mg/L	0.000036	0.00000	mg/L	0.000036	992.20%
Ca 317.933†	27.0	0.00186	mg/L	0.001011	0.00186	mg/L	0.001011	54.47%
Cd 228.802†	-5.5	-0.00026	mg/L	0.000183	-0.00026	mg/L	0.000183	71.04%
Co 228.616†	3.3	0.00011	mg/L	0.000137	0.00011	mg/L	0.000137	124.77%
Cr 267.716†	4.4	0.00085	mg/L	0.000448	0.00085	mg/L	0.000448	52.98%
Cu 324.752†	461.2	0.00165	mg/L	0.000460	0.00165	mg/L	0.000460	27.83%
Fe 273.955†	1.4	0.00127	mg/L	0.000675	0.00127	mg/L	0.000675	53.23%
K 766.490†	30.5	0.02101	mg/L	0.009747	0.02101	mg/L	0.009747	46.40%
Mg 279.077†	7.0	0.00748	mg/L	0.002745	0.00748	mg/L	0.002745	36.68%
Mn 257.610†	-2.5	-0.00008	mg/L	0.000023	-0.00008	mg/L	0.000023	28.20%
Mo 202.031†	-4.9	-0.00029	mg/L	0.000212	-0.00029	mg/L	0.000212	73.65%
Na 589.592†	28.9	0.00242	mg/L	0.001097	0.00242	mg/L	0.001097	45.29%
Na 330.237†	12.8	0.4411	mg/L	0.18330	0.4411	mg/L	0.18330	41.56%
Ni 231.604†	4.8	0.00281	mg/L	0.001455	0.00281	mg/L	0.001455	51.80%
Pb 220.353†	-14.7	-0.00200	mg/L	0.000219	-0.00200	mg/L	0.000219	10.93%
Sb 206.836†	-0.8	-0.00031	mg/L	0.001598	-0.00031	mg/L	0.001598	519.70%
Se 196.026†	8.1	0.00641	mg/L	0.003691	0.00641	mg/L	0.003691	57.60%
Si 288.158†	6.4	0.00430	mg/L	0.001678	0.00430	mg/L	0.001678	38.99%
Sn 189.927†	2.1	0.00057	mg/L	0.000653	0.00057	mg/L	0.000653	115.14%
Sr 421.552†	-29.3	-0.00004	mg/L	0.000012	-0.00004	mg/L	0.000012	27.38%
Ti 334.903†	2.4	0.00011	mg/L	0.000552	0.00011	mg/L	0.000552	511.15%
Tl 190.801†	1.5	0.00082	mg/L	0.001805	0.00082	mg/L	0.001805	220.35%
V 292.402†	4.9	0.00005	mg/L	0.000061	0.00005	mg/L	0.000061	114.37%
Zn 206.200†	-0.0	-0.00007	mg/L	0.001615	-0.00007	mg/L	0.001615	>999.9%

Sequence No.: 13
Sample ID: CV9
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 2:45:47 PM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1971878.5	103.7	%	0.27				0.26%
ScR 361.383	301536.4	103.0	%	0.29				0.28%
Ag 328.068†	184124.7	1.038	mg/L	0.0121	1.038	mg/L	0.0121	1.17%
Al 308.215†	2773.6	2.155	mg/L	0.0084	2.155	mg/L	0.0084	0.39%
As 188.979†	2983.3	2.041	mg/L	0.0118	2.041	mg/L	0.0118	0.58%
B 249.677†	3452.7	0.9939	mg/L	0.00582	0.9939	mg/L	0.00582	0.59%
Ba 233.527†	3368.1	1.010	mg/L	0.0027	1.010	mg/L	0.0027	0.27%
Be 313.042†	566087.1	0.9793	mg/L	0.00687	0.9793	mg/L	0.00687	0.70%
Ca 317.933†	31807.6	2.191	mg/L	0.0160	2.191	mg/L	0.0160	0.73%
Cd 228.802†	23068.2	1.075	mg/L	0.0063	1.075	mg/L	0.0063	0.58%
Co 228.616†	31900.5	1.057	mg/L	0.0073	1.057	mg/L	0.0073	0.69%
Cr 267.716†	5283.5	1.028	mg/L	0.0054	1.028	mg/L	0.0054	0.52%
Cu 324.752†	294444.0	1.055	mg/L	0.0067	1.055	mg/L	0.0067	0.63%
Fe 273.955†	2447.3	2.135	mg/L	0.0140	2.135	mg/L	0.0140	0.66%
K 766.490†	31641.4	21.77	mg/L	0.073	21.77	mg/L	0.073	0.34%
Mg 279.077†	2031.6	2.170	mg/L	0.0024	2.170	mg/L	0.0024	0.11%
Mn 257.610†	30588.5	0.9712	mg/L	0.00433	0.9712	mg/L	0.00433	0.45%
Mo 202.031†	17785.4	1.035	mg/L	0.0101	1.035	mg/L	0.0101	0.97%
Na 589.592†	592774.3	49.72	mg/L	0.400	49.72	mg/L	0.400	0.80%
Na 330.237†	1576.5	54.26	mg/L	0.216	54.26	mg/L	0.216	0.40%
Ni 231.604†	1722.9	1.013	mg/L	0.0055	1.013	mg/L	0.0055	0.54%
Pb 220.353†	14936.6	2.028	mg/L	0.0105	2.028	mg/L	0.0105	0.52%
Sb 206.836†	5891.6	2.201	mg/L	0.0107	2.201	mg/L	0.0107	0.49%
Se 196.026†	2606.6	2.053	mg/L	0.0030	2.053	mg/L	0.0030	0.15%
Si 288.158†	3287.4	2.230	mg/L	0.0010	2.230	mg/L	0.0010	0.05%
Sn 189.927†	3961.9	1.080	mg/L	0.0045	1.080	mg/L	0.0045	0.41%
Sr 421.552†	674063.3	1.006	mg/L	0.0038	1.006	mg/L	0.0038	0.38%
Ti 334.903†	23097.5	1.050	mg/L	0.0037	1.050	mg/L	0.0037	0.35%
Tl 190.801†	3674.0	2.031	mg/L	0.0116	2.031	mg/L	0.0116	0.57%
V 292.402†	103218.4	1.054	mg/L	0.0050	1.054	mg/L	0.0050	0.47%
Zn 206.200†	675.3	0.9943	mg/L	0.00264	0.9943	mg/L	0.00264	0.27%

Sequence No.: 14
Sample ID: CB 9
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 2:50:00 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1978470.0	104.0	%	0.71				0.68%
ScR 361.383	282408.8	96.49	%	0.962				1.00%
Ag 328.068†	-4.3	-0.00002	mg/L	0.000329	-0.00002	mg/L	0.000329	>999.9%
Al 308.215†	5.3	0.00418	mg/L	0.005184	0.00418	mg/L	0.005184	124.17%
As 188.979†	0.7	0.00049	mg/L	0.002532	0.00049	mg/L	0.002532	517.86%
B 249.677†	-0.8	-0.00024	mg/L	0.001277	-0.00024	mg/L	0.001277	530.43%
Ba 233.527†	4.4	0.00132	mg/L	0.000605	0.00132	mg/L	0.000605	45.71%
Be 313.042†	128.4	0.00022	mg/L	0.000092	0.00022	mg/L	0.000092	41.41%
Ca 317.933†	16.4	0.00113	mg/L	0.002392	0.00113	mg/L	0.002392	212.33%
Cd 228.802†	0.1	0.00000	mg/L	0.000081	0.00000	mg/L	0.000081	>999.9%
Co 228.616†	-2.2	-0.00007	mg/L	0.000101	-0.00007	mg/L	0.000101	139.08%
Cr 267.716†	-2.2	-0.00043	mg/L	0.000510	-0.00043	mg/L	0.000510	117.23%
Cu 324.752†	420.9	0.00151	mg/L	0.000507	0.00151	mg/L	0.000507	33.57%
Fe 273.955†	-0.0	-0.00001	mg/L	0.003091	-0.00001	mg/L	0.003091	>999.9%
K 766.490†	70.9	0.04880	mg/L	0.010472	0.04880	mg/L	0.010472	21.46%
Mg 279.077†	4.3	0.00462	mg/L	0.007658	0.00462	mg/L	0.007658	165.82%
Mn 257.610†	2.6	0.00008	mg/L	0.000124	0.00008	mg/L	0.000124	148.63%
Mo 202.031†	-0.2	-0.00001	mg/L	0.000060	-0.00001	mg/L	0.000060	674.06%
Na 589.592†	140.7	0.01180	mg/L	0.005553	0.01180	mg/L	0.005553	47.06%
Na 330.237†	-8.2	-0.2805	mg/L	0.11358	-0.2805	mg/L	0.11358	40.48%
Ni 231.604†	6.1	0.00361	mg/L	0.000664	0.00361	mg/L	0.000664	18.42%
Pb 220.353†	-5.7	-0.00078	mg/L	0.001239	-0.00078	mg/L	0.001239	159.05%
Sb 206.836†	6.3	0.00238	mg/L	0.001776	0.00238	mg/L	0.001776	74.77%
Se 196.026†	12.7	0.00997	mg/L	0.000907	0.00997	mg/L	0.000907	9.10%
Si 288.158†	11.4	0.00772	mg/L	0.001969	0.00772	mg/L	0.001969	25.51%
Sn 189.927†	5.2	0.00142	mg/L	0.000461	0.00142	mg/L	0.000461	32.34%
Sr 421.552†	96.3	0.00014	mg/L	0.000101	0.00014	mg/L	0.000101	70.61%
Ti 334.903†	-17.4	-0.00079	mg/L	0.000477	-0.00079	mg/L	0.000477	60.11%
Tl 190.801†	3.8	0.00211	mg/L	0.002711	0.00211	mg/L	0.002711	128.61%
V 292.402†	-0.7	-0.00001	mg/L	0.000116	-0.00001	mg/L	0.000116	>999.9%
Zn 206.200†	-0.7	-0.00103	mg/L	0.002633	-0.00103	mg/L	0.002633	255.04%

Sequence No.: 15
Sample ID: RG51 MB1 SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 301
Date Collected: 8/6/2010 2:53:56 PM
Data Type: Original

Nebulizer Parameters: RG51 MB1 SWC

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: RG51 MB1 SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1978311.8	104.0	%	1.11				1.07%
ScR 361.383	283519.6	96.87	%	0.995				1.03%
Ag 328.068†	-0.5	0.00000	mg/L	0.000095	-0.00001	mg/L	0.000191	>999.9%
Al 308.215†	16.1	0.01270	mg/L	0.010482	0.02541	mg/L	0.020964	82.52%
As 188.979†	3.7	0.00252	mg/L	0.002541	0.00503	mg/L	0.005081	101.00%
B 249.677†	-6.2	-0.00178	mg/L	0.001449	-0.00355	mg/L	0.002898	81.59%
Ba 233.527†	7.0	0.00211	mg/L	0.000572	0.00423	mg/L	0.001144	27.07%
Be 313.042†	70.0	0.00012	mg/L	0.000026	0.00024	mg/L	0.000053	21.77%
Ca 317.933†	198.2	0.01365	mg/L	0.002204	0.02731	mg/L	0.004408	16.14%
Cd 228.802†	0.4	0.00001	mg/L	0.000106	0.00002	mg/L	0.000212	>999.9%
Co 228.616†	0.4	0.00001	mg/L	0.000063	0.00002	mg/L	0.000126	584.70%
Cr 267.716†	0.3	0.00006	mg/L	0.001009	0.00012	mg/L	0.002017	>999.9%
Cu 324.752†	480.9	0.00172	mg/L	0.000295	0.00345	mg/L	0.000591	17.13%
Fe 273.955†	6.1	0.00537	mg/L	0.001383	0.01074	mg/L	0.002766	25.75%
K 766.490†	125.8	0.08654	mg/L	0.032761	0.1731	mg/L	0.06552	37.86%
Mg 279.077†	5.6	0.00593	mg/L	0.006942	0.01185	mg/L	0.013885	117.14%
Mn 257.610†	3.0	0.00010	mg/L	0.000069	0.00019	mg/L	0.000139	72.70%
Mo 202.031†	-4.0	-0.00023	mg/L	0.000351	-0.00046	mg/L	0.000702	151.61%
Na 589.592†	71.8	0.00602	mg/L	0.006815	0.01205	mg/L	0.013630	113.14%
Na 330.237†	-3.7	-0.1265	mg/L	0.25823	-0.2529	mg/L	0.51646	204.19%
Ni 231.604†	4.2	0.00244	mg/L	0.001143	0.00489	mg/L	0.002285	46.76%
Pb 220.353†	-2.7	-0.00036	mg/L	0.000471	-0.00073	mg/L	0.000942	129.32%
Sb 206.836†	-2.3	-0.00084	mg/L	0.002372	-0.00169	mg/L	0.004745	281.01%
Se 196.026†	4.3	0.00342	mg/L	0.006854	0.00685	mg/L	0.013709	200.22%
Si 288.158†	24.8	0.01676	mg/L	0.000786	0.03353	mg/L	0.001571	4.69%
Sn 189.927†	1.4	0.00038	mg/L	0.000949	0.00075	mg/L	0.001898	252.55%
Sr 421.552†	49.5	0.00007	mg/L	0.000039	0.00015	mg/L	0.000078	52.52%
Ti 334.903†	-1.0	-0.00005	mg/L	0.000777	-0.00010	mg/L	0.001553	>999.9%
Tl 190.801†	1.6	0.00089	mg/L	0.001961	0.00178	mg/L	0.003921	219.87%
V 292.402†	7.9	0.00008	mg/L	0.000223	0.00016	mg/L	0.000447	277.97%
Zn 206.200†	1.3	0.00195	mg/L	0.002276	0.00390	mg/L	0.004551	116.85%

Sequence No.: 16
Sample ID: RG51 B SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 302
Date Collected: 8/6/2010 2:57:52 PM
Data Type: Original

Nebulizer Parameters: RG51 B SWC

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: RG51 B SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2006581.5	105.5	%	1.24				1.17%
ScR 361.383	313364.6	107.1	%	0.53				0.49%
Ag 328.068†	-43.2	-0.00050	mg/L	0.000294	-0.00100	mg/L	0.000587	58.87%
Al 308.215†	195527.3	154.2	mg/L	0.43	308.5	mg/L	0.86	0.28%
As 188.979†	-162.5	0.02643	mg/L	0.001151	0.05285	mg/L	0.002302	4.36%
B 249.677†	47.1	0.01336	mg/L	0.000925	0.02672	mg/L	0.001851	6.93%
Ba 233.527†	2222.8	0.6502	mg/L	0.00690	1.300	mg/L	0.0138	1.06%
Be 313.042†	1315.6	0.00197	mg/L	0.000020	0.00395	mg/L	0.000040	1.02%
Ca 317.933†	576920.1	39.73	mg/L	0.215	79.46	mg/L	0.430	0.54%
Cd 228.802†	84.1	0.00453	mg/L	0.000221	0.00906	mg/L	0.000441	4.87%
Co 228.616†	2599.3	0.07104	mg/L	0.000969	0.1421	mg/L	0.00194	1.36%
Cr 267.716†	1682.4	0.3269	mg/L	0.00260	0.6537	mg/L	0.00520	0.79%
Cu 324.752†	42152.7	0.1595	mg/L	0.00156	0.3189	mg/L	0.00312	0.98%
Fe 273.955†	198906.6	174.0	mg/L	0.80	347.9	mg/L	1.60	0.46%
K 766.490†	7920.7	5.451	mg/L	0.0250	10.90	mg/L	0.050	0.46%
Mg 279.077†	56773.0	60.40	mg/L	0.189	120.8	mg/L	0.38	0.31%
Mn 257.610†	99063.0	3.143	mg/L	0.0212	6.287	mg/L	0.0424	0.68%
Mo 202.031†	113.2	0.00589	mg/L	0.000122	0.01179	mg/L	0.000244	2.07%
Na 589.592†	19661.6	1.649	mg/L	0.0114	3.298	mg/L	0.0229	0.69%
Na 330.237†	-9.8	1.904	mg/L	0.1902	3.808	mg/L	0.3805	9.99%
Ni 231.604†	586.2	0.3442	mg/L	0.00277	0.6884	mg/L	0.00555	0.81%
Pb 220.353†	579.2	0.09301	mg/L	0.001166	0.1860	mg/L	0.00233	1.25%
Sb 206.836†	21.5	0.01570	mg/L	0.000548	0.03140	mg/L	0.001095	3.49%
Se 196.026†	52.0	0.03828	mg/L	0.008238	0.07655	mg/L	0.016476	21.52%
Si 288.158†	4648.8	3.148	mg/L	0.0159	6.296	mg/L	0.0319	0.51%
Sn 189.927†	-26.6	-0.00190	mg/L	0.000996	-0.00380	mg/L	0.001993	52.46%
Sr 421.552†	117101.8	0.1748	mg/L	0.00061	0.3496	mg/L	0.00122	0.35%
Ti 334.903†	167665.0	7.633	mg/L	0.0353	15.27	mg/L	0.071	0.46%
Tl 190.801†	-35.1	0.00886	mg/L	0.005409	0.01772	mg/L	0.010818	61.07%
V 292.402†	41392.9	0.3997	mg/L	0.00202	0.7994	mg/L	0.00404	0.51%
Zn 206.200†	290.4	0.4235	mg/L	0.00722	0.8469	mg/L	0.01445	1.71%

Sequence No.: 17
Sample ID: RG51 C SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 303
Date Collected: 8/6/2010 3:01:34 PM
Data Type: Original

Nebulizer Parameters: RG51 C SWC

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: RG51 C SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2007295.4	105.6	%	0.12				0.12%
ScR 361.383	309718.8	105.8	%	2.88				2.72%
Ag 328.068†	-7.7	-0.00037	mg/L	0.000155	-0.00074	mg/L	0.000310	41.75%
Al 308.215†	191584.9	151.1	mg/L	4.64	302.3	mg/L	9.28	3.07%
As 188.979†	-119.0	0.04698	mg/L	0.001669	0.09395	mg/L	0.003338	3.55%
B 249.677†	30.2	0.00852	mg/L	0.000273	0.01703	mg/L	0.000546	3.20%
Ba 233.527†	2459.5	0.7222	mg/L	0.01638	1.444	mg/L	0.0328	2.27%
Be 313.042†	1388.3	0.00213	mg/L	0.000123	0.00425	mg/L	0.000246	5.79%
Ca 317.933†	521959.7	35.95	mg/L	1.130	71.89	mg/L	2.260	3.14%
Cd 228.802†	109.8	0.00563	mg/L	0.000123	0.01127	mg/L	0.000245	2.18%
Co 228.616†	2502.0	0.06877	mg/L	0.000583	0.1375	mg/L	0.00117	0.85%
Cr 267.716†	1366.2	0.2662	mg/L	0.00464	0.5324	mg/L	0.00928	1.74%
Cu 324.752†	47731.9	0.1792	mg/L	0.00081	0.3583	mg/L	0.00163	0.45%
Fe 273.955†	187495.5	164.0	mg/L	4.78	327.9	mg/L	9.56	2.92%
K 766.490†	7144.0	4.916	mg/L	0.1427	9.832	mg/L	0.2854	2.90%
Mg 279.077†	47717.0	50.76	mg/L	1.454	101.5	mg/L	2.91	2.87%
Mn 257.610†	106434.0	3.377	mg/L	0.1015	6.755	mg/L	0.2030	3.01%
Mo 202.031†	98.4	0.00510	mg/L	0.000495	0.01020	mg/L	0.000991	9.71%
Na 589.592†	17076.3	1.432	mg/L	0.0442	2.865	mg/L	0.0884	3.09%
Na 330.237†	-17.9	1.454	mg/L	0.0577	2.909	mg/L	0.1155	3.97%
Ni 231.604†	577.9	0.3393	mg/L	0.00813	0.6787	mg/L	0.01626	2.40%
Pb 220.353†	2098.9	0.2993	mg/L	0.00248	0.5985	mg/L	0.00495	0.83%
Sb 206.836†	29.7	0.01866	mg/L	0.001808	0.03732	mg/L	0.003616	9.69%
Se 196.026†	46.9	0.03448	mg/L	0.001796	0.06897	mg/L	0.003592	5.21%
Si 288.158†	3428.9	2.322	mg/L	0.0621	4.644	mg/L	0.1242	2.67%
Sn 189.927†	-22.4	-0.00116	mg/L	0.000853	-0.00233	mg/L	0.001706	73.31%
Sr 421.552†	112071.6	0.1673	mg/L	0.00489	0.3346	mg/L	0.00978	2.92%
Ti 334.903†	156607.6	7.129	mg/L	0.2127	14.26	mg/L	0.425	2.98%
Tl 190.801†	-35.6	0.00738	mg/L	0.004725	0.01475	mg/L	0.009451	64.06%
V 292.402†	37279.6	0.3590	mg/L	0.00092	0.7180	mg/L	0.00184	0.26%
Zn 206.200†	325.0	0.4744	mg/L	0.00767	0.9489	mg/L	0.01534	1.62%

Sequence No.: 18
Sample ID: RG51 D SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 304
Date Collected: 8/6/2010 3:05:30 PM
Data Type: Original

Nebulizer Parameters: RG51 D SWC

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: RG51 D SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2014653.5	105.9	%	0.78				0.74%
ScR 361.383	310329.4	106.0	%	1.67				1.57%
Ag 328.068†	-40.0	-0.00031	mg/L	0.000090	-0.00061	mg/L	0.000180	29.47%
Al 308.215†	193084.3	152.3	mg/L	2.29	304.6	mg/L	4.59	1.51%
As 188.979†	-189.5	0.02749	mg/L	0.001778	0.05498	mg/L	0.003555	6.47%
B 249.677†	21.7	0.00603	mg/L	0.001423	0.01207	mg/L	0.002847	23.59%
Ba 233.527†	2011.9	0.5869	mg/L	0.00959	1.174	mg/L	0.0192	1.63%
Be 313.042†	1276.6	0.00190	mg/L	0.000050	0.00380	mg/L	0.000099	2.61%
Ca 317.933†	556404.7	38.32	mg/L	0.489	76.64	mg/L	0.978	1.28%
Cd 228.802†	50.2	0.00300	mg/L	0.000151	0.00601	mg/L	0.000302	5.02%
Co 228.616†	2602.1	0.06934	mg/L	0.000250	0.1387	mg/L	0.00050	0.36%
Cr 267.716†	1314.2	0.2558	mg/L	0.00490	0.5116	mg/L	0.00979	1.91%
Cu 324.752†	40142.1	0.1520	mg/L	0.00152	0.3040	mg/L	0.00303	1.00%
Fe 273.955†	199487.1	174.5	mg/L	2.41	348.9	mg/L	4.83	1.38%
K 766.490†	8602.5	5.920	mg/L	0.0977	11.84	mg/L	0.195	1.65%
Mg 279.077†	52816.7	56.18	mg/L	0.916	112.4	mg/L	1.83	1.63%
Mn 257.610†	76580.9	2.430	mg/L	0.0353	4.860	mg/L	0.0706	1.45%
Mo 202.031†	85.9	0.00433	mg/L	0.000309	0.00867	mg/L	0.000619	7.13%
Na 589.592†	17846.0	1.497	mg/L	0.0288	2.994	mg/L	0.0575	1.92%
Na 330.237†	-28.4	1.579	mg/L	0.1676	3.158	mg/L	0.3352	10.61%
Ni 231.604†	588.8	0.3457	mg/L	0.00672	0.6915	mg/L	0.01345	1.94%
Pb 220.353†	172.7	0.03734	mg/L	0.000159	0.07468	mg/L	0.000318	0.43%
Sb 206.836†	20.3	0.01732	mg/L	0.002506	0.03463	mg/L	0.005012	14.47%
Se 196.026†	42.3	0.03068	mg/L	0.008167	0.06136	mg/L	0.016333	26.62%
Si 288.158†	3235.9	2.191	mg/L	0.0410	4.382	mg/L	0.0821	1.87%
Sn 189.927†	-38.0	-0.00457	mg/L	0.001109	-0.00914	mg/L	0.002218	24.27%
Sr 421.552†	131477.1	0.1963	mg/L	0.00297	0.3925	mg/L	0.00594	1.51%
Ti 334.903†	191039.9	8.697	mg/L	0.1362	17.39	mg/L	0.272	1.57%
Tl 190.801†	-33.0	0.00943	mg/L	0.003362	0.01886	mg/L	0.006724	35.66%
V 292.402†	40418.0	0.3887	mg/L	0.00524	0.7774	mg/L	0.01048	1.35%
Zn 206.200†	208.7	0.3031	mg/L	0.00578	0.6063	mg/L	0.01156	1.91%

Sequence No.: 19
Sample ID: RG51 ADUP SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 305
Date Collected: 8/6/2010 3:09:12 PM
Data Type: Original

Nebulizer Parameters: RG51 ADUP SWC

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: RG51 ADUP SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1993267.8	104.8	%	0.61				0.58%
ScR 361.383	313933.0	107.3	%	1.35				1.26%
Ag 328.068†	-101.8	-0.00079	mg/L	0.000023	-0.00157	mg/L	0.000045	2.89%
Al 308.215†	211380.3	166.7	mg/L	1.89	333.5	mg/L	3.77	1.13%
As 188.979†	-201.3	0.02132	mg/L	0.003331	0.04264	mg/L	0.006661	15.62%
B 249.677†	25.4	0.00705	mg/L	0.002270	0.01410	mg/L	0.004540	32.20%
Ba 233.527†	2012.7	0.5838	mg/L	0.00540	1.168	mg/L	0.0108	0.93%
Be 313.042†	1405.8	0.00205	mg/L	0.000058	0.00410	mg/L	0.000117	2.84%
Ca 317.933†	793367.7	54.64	mg/L	0.810	109.3	mg/L	1.62	1.48%
Cd 228.802†	61.9	0.00355	mg/L	0.000169	0.00711	mg/L	0.000338	4.75%
Co 228.616†	3233.4	0.08965	mg/L	0.000375	0.1793	mg/L	0.00075	0.42%
Cr 267.716†	1412.4	0.2756	mg/L	0.00298	0.5512	mg/L	0.00595	1.08%
Cu 324.752†	84520.1	0.3135	mg/L	0.00239	0.6270	mg/L	0.00478	0.76%
Fe 273.955†	239073.0	209.1	mg/L	2.53	418.2	mg/L	5.06	1.21%
K 766.490†	9258.3	6.371	mg/L	0.0842	12.74	mg/L	0.168	1.32%
Mg 279.077†	56925.2	60.54	mg/L	0.454	121.1	mg/L	0.91	0.75%
Mn 257.610†	103528.7	3.285	mg/L	0.0222	6.571	mg/L	0.0445	0.68%
Mo 202.031†	119.4	0.00600	mg/L	0.000226	0.01200	mg/L	0.000453	3.77%
Na 589.592†	41346.2	3.468	mg/L	0.0412	6.936	mg/L	0.0825	1.19%
Na 330.237†	31.2	3.735	mg/L	0.1902	7.469	mg/L	0.3805	5.09%
Ni 231.604†	531.1	0.3119	mg/L	0.00357	0.6237	mg/L	0.00715	1.15%
Pb 220.353†	743.7	0.1147	mg/L	0.00036	0.2294	mg/L	0.00073	0.32%
Sb 206.836†	31.6	0.02192	mg/L	0.001509	0.04383	mg/L	0.003017	6.88%
Se 196.026†	45.1	0.03178	mg/L	0.006478	0.06357	mg/L	0.012955	20.38%
Si 288.158†	4763.3	3.225	mg/L	0.0488	6.451	mg/L	0.0976	1.51%
Sn 189.927†	-37.4	-0.00360	mg/L	0.002094	-0.00720	mg/L	0.004188	58.17%
Sr 421.552†	238661.6	0.3563	mg/L	0.00416	0.7125	mg/L	0.00832	1.17%
Ti 334.903†	193826.5	8.823	mg/L	0.0996	17.65	mg/L	0.199	1.13%
Tl 190.801†	-40.0	0.01134	mg/L	0.005702	0.02269	mg/L	0.011403	50.26%
V 292.402†	54214.6	0.5254	mg/L	0.00212	1.051	mg/L	0.0042	0.40%
Zn 206.200†	290.1	0.4226	mg/L	0.00431	0.8452	mg/L	0.00862	1.02%

Sequence No.: 20
Sample ID: RG51 A SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 306
Date Collected: 8/6/2010 3:13:09 PM
Data Type: Original

Nebulizer Parameters: RG51 A SWC

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: RG51 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2006678.2	105.5	%	2.09				1.98%
ScR 361.383	313637.7	107.2	%	1.39				1.29%
Ag 328.068†	-116.4	-0.00087	mg/L	0.000079	-0.00173	mg/L	0.000158	9.14%
Al 308.215†	216395.5	170.7	mg/L	1.48	341.4	mg/L	2.97	0.87%
As 188.979†	-235.3	0.02311	mg/L	0.004671	0.04621	mg/L	0.009343	20.22%
B 249.677†	25.1	0.00696	mg/L	0.001254	0.01393	mg/L	0.002509	18.01%
Ba 233.527†	1931.3	0.5574	mg/L	0.00628	1.115	mg/L	0.0126	1.13%
Be 313.042†	1431.1	0.00205	mg/L	0.000091	0.00409	mg/L	0.000182	4.44%
Ca 317.933†	873699.0	60.17	mg/L	0.551	120.3	mg/L	1.10	0.92%
Cd 228.802†	66.7	0.00386	mg/L	0.000150	0.00773	mg/L	0.000300	3.88%
Co 228.616†	3464.0	0.09472	mg/L	0.002462	0.1894	mg/L	0.00492	2.60%
Cr 267.716†	1468.4	0.2866	mg/L	0.00363	0.5732	mg/L	0.00727	1.27%
Cu 324.752†	93917.3	0.3480	mg/L	0.00749	0.6960	mg/L	0.01498	2.15%
Fe 273.955†	262342.2	229.4	mg/L	1.94	458.9	mg/L	3.89	0.85%
K 766.490†	9283.0	6.388	mg/L	0.1079	12.78	mg/L	0.216	1.69%
Mg 279.077†	62227.0	66.18	mg/L	1.175	132.4	mg/L	2.35	1.78%
Mn 257.610†	113050.3	3.588	mg/L	0.0772	7.175	mg/L	0.1543	2.15%
Mo 202.031†	128.6	0.00644	mg/L	0.000273	0.01288	mg/L	0.000546	4.24%
Na 589.592†	50513.1	4.237	mg/L	0.0447	8.474	mg/L	0.0894	1.06%
Na 330.237†	39.7	4.438	mg/L	0.4505	8.875	mg/L	0.9010	10.15%
Ni 231.604†	542.7	0.3187	mg/L	0.00188	0.6374	mg/L	0.00375	0.59%
Pb 220.353†	675.7	0.1047	mg/L	0.00032	0.2094	mg/L	0.00065	0.31%
Sb 206.836†	26.0	0.02167	mg/L	0.000645	0.04334	mg/L	0.001290	2.98%
Se 196.026†	45.2	0.03153	mg/L	0.006081	0.06305	mg/L	0.012162	19.29%
Si 288.158†	3737.7	2.531	mg/L	0.0302	5.062	mg/L	0.0604	1.19%
Sn 189.927†	-42.1	-0.00399	mg/L	0.002375	-0.00799	mg/L	0.004750	59.46%
Sr 421.552†	254192.2	0.3794	mg/L	0.00456	0.7589	mg/L	0.00912	1.20%
Ti 334.903†	224254.7	10.21	mg/L	0.099	20.42	mg/L	0.197	0.97%
Tl 190.801†	-42.0	0.01344	mg/L	0.002279	0.02688	mg/L	0.004559	16.96%
V 292.402†	60304.0	0.5844	mg/L	0.01399	1.169	mg/L	0.0280	2.39%
Zn 206.200†	298.8	0.4353	mg/L	0.00455	0.8707	mg/L	0.00910	1.04%

Sequence No.: 21
Sample ID: RG51 ASPK SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 307
Date Collected: 8/6/2010 3:17:07 PM
Data Type: Original

Nebulizer Parameters: RG51 ASPK SWC

Analyte	Back Pressure	Flow
All	202.0 kPa	0.75 L/min

Mean Data: RG51 ASPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2036782.0	107.1	%	0.90				0.84%
ScR 361.383	317622.4	108.5	%	2.31				2.13%
Ag 328.068†	84828.9	0.4782	mg/L	0.00045	0.9564	mg/L	0.00091	0.09%
Al 308.215†	222568.0	175.6	mg/L	3.96	351.1	mg/L	7.92	2.25%
As 188.979†	2642.7	1.955	mg/L	0.0108	3.910	mg/L	0.0215	0.55%
B 249.677†	28.7	0.00675	mg/L	0.000748	0.01349	mg/L	0.001496	11.09%
Ba 233.527†	8356.7	2.486	mg/L	0.0540	4.973	mg/L	0.1081	2.17%
Be 313.042†	279380.5	0.4829	mg/L	0.01300	0.9659	mg/L	0.02599	2.69%
Ca 317.933†	1008921.0	69.48	mg/L	1.879	139.0	mg/L	3.76	2.70%
Cd 228.802†	11339.9	0.5259	mg/L	0.00756	1.052	mg/L	0.0151	1.44%
Co 228.616†	18243.6	0.5869	mg/L	0.00857	1.174	mg/L	0.0171	1.46%
Cr 267.716†	3768.4	0.7331	mg/L	0.01514	1.466	mg/L	0.0303	2.06%
Cu 324.752†	218812.1	0.7951	mg/L	0.00184	1.590	mg/L	0.0037	0.23%
Fe 273.955†	239946.6	209.8	mg/L	4.98	419.7	mg/L	9.96	2.37%
K 766.490†	24276.4	16.71	mg/L	0.416	33.41	mg/L	0.833	2.49%
Mg 279.077†	62192.8	66.15	mg/L	1.360	132.3	mg/L	2.72	2.06%
Mn 257.610†	120699.9	3.831	mg/L	0.0950	7.661	mg/L	0.1901	2.48%
Mo 202.031†	120.6	0.00581	mg/L	0.000282	0.01163	mg/L	0.000564	4.85%
Na 589.592†	166589.5	13.97	mg/L	0.342	27.95	mg/L	0.683	2.45%
Na 330.237†	359.3	15.07	mg/L	0.062	30.14	mg/L	0.125	0.41%
Ni 231.604†	1273.8	0.7480	mg/L	0.01580	1.496	mg/L	0.0316	2.11%
Pb 220.353†	14560.9	1.992	mg/L	0.0230	3.983	mg/L	0.0459	1.15%
Sb 206.836†	39.1	0.02185	mg/L	0.001653	0.04370	mg/L	0.003306	7.57%
Se 196.026†	2546.4	2.000	mg/L	0.0244	4.001	mg/L	0.0487	1.22%
Si 288.158†	2197.4	1.490	mg/L	0.0364	2.980	mg/L	0.0727	2.44%
Sn 189.927†	-41.7	-0.00394	mg/L	0.002013	-0.00788	mg/L	0.004026	51.06%
Sr 421.552†	578830.6	0.8641	mg/L	0.01908	1.728	mg/L	0.0382	2.21%
Ti 334.903†	199893.7	9.098	mg/L	0.2025	18.20	mg/L	0.405	2.23%
Tl 190.801†	3356.1	1.887	mg/L	0.0118	3.773	mg/L	0.0235	0.62%
V 292.402†	100632.7	0.9992	mg/L	0.00258	1.998	mg/L	0.0052	0.26%
Zn 206.200†	593.0	0.8686	mg/L	0.01417	1.737	mg/L	0.0283	1.63%

Sequence No.: 22
Sample ID: ~~RF71 APOST SWC~~ ZZZZZZ
Analyst: ALA
Dilution: 2X
8-9-10

Autosampler Location: 308
Date Collected: 8/6/2010 3:20:50 PM
Data Type: Original

Nebulizer Parameters: RF71 APOST SWC

Analyte	Back Pressure	Flow
All	203.0 kPa	0.75 L/min

Mean Data: RF71 APOST SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1980734.8	104.2	%	1.85				1.78%
ScR 361.383	309824.0	105.9	%	1.19				1.12%
Ag 328.068†	85574.6	0.4826	mg/L	0.01143	0.9651	mg/L	0.02286	2.37%
Al 308.215†	157477.6	124.2	mg/L	0.91	248.4	mg/L	1.82	0.73%
As 188.979†	2830.7	2.028	mg/L	0.0354	4.055	mg/L	0.0708	1.75%
B 249.677†	266.8	0.07550	mg/L	0.000932	0.1510	mg/L	0.00186	1.23%
Ba 233.527†	7426.7	2.210	mg/L	0.0276	4.420	mg/L	0.0552	1.25%
Be 313.042†	274289.8	0.4742	mg/L	0.00431	0.9485	mg/L	0.00862	0.91%
Ca 317.933†	630581.6	43.43	mg/L	0.375	86.86	mg/L	0.750	0.86%
Cd 228.802†	11279.2	0.5226	mg/L	0.01021	1.045	mg/L	0.0204	1.95%
Co 228.616†	17450.8	0.5661	mg/L	0.01146	1.132	mg/L	0.0229	2.02%
Cr 267.716†	3956.8	0.7681	mg/L	0.01066	1.536	mg/L	0.0213	1.39%
Cu 324.752†	229078.5	0.8311	mg/L	0.01735	1.662	mg/L	0.0347	2.09%
Fe 273.955†	212039.5	185.4	mg/L	1.45	370.9	mg/L	2.90	0.78%
K 766.490†	30559.4	21.03	mg/L	0.241	42.06	mg/L	0.482	1.15%
Mg 279.077†	69637.7	74.10	mg/L	0.552	148.2	mg/L	1.10	0.75%
Mn 257.610†	76763.8	2.437	mg/L	0.0265	4.873	mg/L	0.0530	1.09%
Mo 202.031†	217.7	0.01191	mg/L	0.000517	0.02382	mg/L	0.001034	4.34%
Na 589.592†	312889.6	26.24	mg/L	0.273	52.49	mg/L	0.547	1.04%
Na 330.237†	773.6	28.27	mg/L	0.475	56.53	mg/L	0.949	1.68%
Ni 231.604†	1264.1	0.7438	mg/L	0.00723	1.488	mg/L	0.0145	0.97%
Pb 220.353†	14899.1	2.030	mg/L	0.0362	4.061	mg/L	0.0723	1.78%
Sb 206.836†	5714.4	2.131	mg/L	0.0389	4.262	mg/L	0.0778	1.82%
Se 196.026†	2600.2	2.045	mg/L	0.0449	4.089	mg/L	0.0898	2.19%
Si 288.158†	12698.7	8.601	mg/L	0.1241	17.20	mg/L	0.248	1.44%
Sn 189.927†	5.3	0.00758	mg/L	0.001287	0.01515	mg/L	0.002574	16.99%
Sr 421.552†	491104.9	0.7331	mg/L	0.00672	1.466	mg/L	0.0134	0.92%
Ti 334.903†	132559.4	6.034	mg/L	0.0535	12.07	mg/L	0.107	0.89%
Tl 190.801†	3368.9	1.889	mg/L	0.0329	3.778	mg/L	0.0658	1.74%
V 292.402†	86154.5	0.8563	mg/L	0.01534	1.713	mg/L	0.0307	1.79%
Zn 206.200†	723.2	1.062	mg/L	0.0141	2.124	mg/L	0.0281	1.32%

Sequence No.: 23
Sample ID: RG51 REF1 SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 309
Date Collected: 8/6/2010 3:24:33 PM
Data Type: Original

Nebulizer Parameters: RG51 REF1 SWC

Analyte	Back Pressure	Flow
All	193.0 kPa	0.75 L/min

Mean Data: RG51 REF1 SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1980165.0	104.1	%	1.42				1.37%
ScR 361.383	297894.2	101.8	%	6.42				6.31%
Ag 328.068†	186046.5	1.049	mg/L	0.0142	2.097	mg/L	0.0284	1.35%
Al 308.215†	127166.8	100.3	mg/L	6.40	200.6	mg/L	12.79	6.38%
As 188.979†	1979.4	1.384	mg/L	0.0187	2.767	mg/L	0.0374	1.35%
B 249.677†	4033.7	1.162	mg/L	0.0674	2.323	mg/L	0.1348	5.80%
Ba 233.527†	11106.0	3.316	mg/L	0.2097	6.633	mg/L	0.4194	6.32%
Be 313.042†	535362.4	0.9262	mg/L	0.05707	1.852	mg/L	0.1141	6.16%
Ca 317.933†	629311.6	43.34	mg/L	2.790	86.68	mg/L	5.579	6.44%
Cd 228.802†	16039.2	0.7476	mg/L	0.00953	1.495	mg/L	0.0191	1.27%
Co 228.616†	24520.8	0.8072	mg/L	0.00984	1.614	mg/L	0.0197	1.22%
Cr 267.716†	3911.1	0.7634	mg/L	0.04715	1.527	mg/L	0.0943	6.18%
Cu 324.752†	194355.7	0.7065	mg/L	0.01035	1.413	mg/L	0.0207	1.46%
Fe 273.955†	178540.7	156.1	mg/L	10.19	312.3	mg/L	20.38	6.53%
K 766.490†	58771.2	40.44	mg/L	2.367	80.89	mg/L	4.733	5.85%
Mg 279.077†	29175.4	31.01	mg/L	1.982	62.01	mg/L	3.963	6.39%
Mn 257.610†	143132.5	4.543	mg/L	0.2921	9.085	mg/L	0.5841	6.43%
Mo 202.031†	8442.7	0.4904	mg/L	0.00659	0.9808	mg/L	0.01318	1.34%
Na 589.592†	68897.0	5.779	mg/L	0.3566	11.56	mg/L	0.713	6.17%
Na 330.237†	153.3	5.753	mg/L	0.4739	11.51	mg/L	0.948	8.24%
Ni 231.604†	989.6	0.5814	mg/L	0.03671	1.163	mg/L	0.0734	6.31%
Pb 220.353†	9559.6	1.304	mg/L	0.0178	2.608	mg/L	0.0356	1.36%
Sb 206.836†	1352.4	0.5229	mg/L	0.00788	1.046	mg/L	0.0158	1.51%
Se 196.026†	2252.8	1.771	mg/L	0.0316	3.542	mg/L	0.0633	1.79%
Si 288.158†	4274.1	2.897	mg/L	0.1901	5.794	mg/L	0.3802	6.56%
Sn 189.927†	6666.9	1.817	mg/L	0.0228	3.633	mg/L	0.0456	1.25%
Sr 421.552†	388980.5	0.5807	mg/L	0.03655	1.161	mg/L	0.0731	6.29%
Ti 334.903†	52254.8	2.376	mg/L	0.1517	4.752	mg/L	0.3035	6.39%
Tl 190.801†	2448.6	1.379	mg/L	0.0137	2.758	mg/L	0.0275	1.00%
V 292.402†	86403.7	0.8647	mg/L	0.01102	1.729	mg/L	0.0220	1.27%
Zn 206.200†	1229.9	1.809	mg/L	0.1172	3.618	mg/L	0.2345	6.48%

Sequence No.: 24 1 8/9/10
Sample ID: RG51 MBSPK SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 310
Date Collected: 8/6/2010 3:28:16 PM
Data Type: Original

Nebulizer Parameters: RG51 MBSPK SWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG51 MBSPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1953076.9	102.7	%	1.99				1.94%
ScR 361.383	298759.2	102.1	%	3.69				3.61%
Ag 328.068†	95514.2	0.5387	mg/L	0.01163	1.077	mg/L	0.0233	2.16%
Al 308.215†	2766.7	2.173	mg/L	0.0830	4.345	mg/L	0.1660	3.82%
As 188.979†	3076.7	2.087	mg/L	0.0380	4.173	mg/L	0.0759	1.82%
B 249.677†	3.5	-0.00034	mg/L	0.002231	-0.00067	mg/L	0.004462	661.53%
Ba 233.527†	6821.7	2.046	mg/L	0.0724	4.092	mg/L	0.1448	3.54%
Be 313.042†	288635.7	0.4993	mg/L	0.02146	0.9986	mg/L	0.04292	4.30%
Ca 317.933†	155369.6	10.70	mg/L	0.476	21.40	mg/L	0.953	4.45%
Cd 228.802†	11691.1	0.5412	mg/L	0.00664	1.082	mg/L	0.0133	1.23%
Co 228.616†	16063.3	0.5326	mg/L	0.00836	1.065	mg/L	0.0167	1.57%
Cr 267.716†	2671.0	0.5182	mg/L	0.01922	1.036	mg/L	0.0384	3.71%
Cu 324.752†	141020.8	0.5058	mg/L	0.01230	1.012	mg/L	0.0246	2.43%
Fe 273.955†	2587.5	2.260	mg/L	0.0877	4.520	mg/L	0.1754	3.88%
K 766.490†	15990.7	11.00	mg/L	0.456	22.01	mg/L	0.912	4.14%
Mg 279.077†	10066.2	10.72	mg/L	0.394	21.45	mg/L	0.788	3.68%
Mn 257.610†	15375.5	0.4884	mg/L	0.01951	0.9768	mg/L	0.03902	3.99%
Mo 202.031†	27.5	0.00142	mg/L	0.000439	0.00283	mg/L	0.000878	30.99%
Na 589.592†	117966.5	9.895	mg/L	0.3984	19.79	mg/L	0.797	4.03%
Na 330.237†	316.3	10.82	mg/L	0.286	21.64	mg/L	0.572	2.64%
Ni 231.604†	867.9	0.5096	mg/L	0.01790	1.019	mg/L	0.0358	3.51%
Pb 220.353†	14970.9	2.032	mg/L	0.0423	4.065	mg/L	0.0846	2.08%
Sb 206.836†	19.5	0.00361	mg/L	0.002076	0.00721	mg/L	0.004153	57.56%
Se 196.026†	2669.7	2.102	mg/L	0.0401	4.203	mg/L	0.0803	1.91%
Si 288.158†	12.3	0.01027	mg/L	0.002540	0.02054	mg/L	0.005080	24.73%
Sn 189.927†	-5.3	-0.00095	mg/L	0.000717	-0.00191	mg/L	0.001435	75.21%
Sr 421.552†	335925.7	0.5015	mg/L	0.01877	1.003	mg/L	0.0375	3.74%
Ti 334.903†	49.2	0.00148	mg/L	0.000224	0.00296	mg/L	0.000448	15.14%
Tl 190.801†	3745.6	2.069	mg/L	0.0429	4.137	mg/L	0.0858	2.07%
V 292.402†	53379.5	0.5448	mg/L	0.00893	1.090	mg/L	0.0179	1.64%
Zn 206.200†	339.5	0.5001	mg/L	0.01864	1.000	mg/L	0.0373	3.73%

Sequence No.: 25
Sample ID: CV 10
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 3:32:27 PM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1940284.8	102.0	%	0.13				0.13%
ScR 361.383	291911.3	99.74	%	1.733				1.74%
Ag 328.068†	187908.8	1.060	mg/L	0.0071	1.060	mg/L	0.0071	0.67%
Al 308.215†	2829.1	2.198	mg/L	0.0407	2.198	mg/L	0.0407	1.85%
As 188.979†	3074.8	2.103	mg/L	0.0034	2.103	mg/L	0.0034	0.16%
B 249.677†	3533.0	1.017	mg/L	0.0168	1.017	mg/L	0.0168	1.65%
Ba 233.527†	3485.9	1.045	mg/L	0.0190	1.045	mg/L	0.0190	1.81%
Be 313.042†	587222.3	1.016	mg/L	0.0178	1.016	mg/L	0.0178	1.75%
Ca 317.933†	33248.5	2.290	mg/L	0.0420	2.290	mg/L	0.0420	1.83%
Cd 228.802†	23710.5	1.105	mg/L	0.0082	1.105	mg/L	0.0082	0.74%
Co 228.616†	32723.5	1.084	mg/L	0.0105	1.084	mg/L	0.0105	0.97%
Cr 267.716†	5457.4	1.062	mg/L	0.0169	1.062	mg/L	0.0169	1.59%
Cu 324.752†	298958.9	1.071	mg/L	0.0084	1.071	mg/L	0.0084	0.78%
Fe 273.955†	2529.2	2.206	mg/L	0.0435	2.206	mg/L	0.0435	1.97%
K 766.490†	32712.2	22.51	mg/L	0.492	22.51	mg/L	0.492	2.19%
Mg 279.077†	2087.2	2.229	mg/L	0.0424	2.229	mg/L	0.0424	1.90%
Mn 257.610†	31601.9	1.003	mg/L	0.0213	1.003	mg/L	0.0213	2.12%
Mo 202.031†	18225.9	1.060	mg/L	0.0079	1.060	mg/L	0.0079	0.75%
Na 589.592†	603221.0	50.60	mg/L	0.727	50.60	mg/L	0.727	1.44%
Na 330.237†	1607.0	55.31	mg/L	1.257	55.31	mg/L	1.257	2.27%
Ni 231.604†	1796.5	1.057	mg/L	0.0190	1.057	mg/L	0.0190	1.80%
Pb 220.353†	15062.2	2.045	mg/L	0.0137	2.045	mg/L	0.0137	0.67%
Sb 206.836†	6014.7	2.247	mg/L	0.0016	2.247	mg/L	0.0016	0.07%
Se 196.026†	2672.2	2.104	mg/L	0.0070	2.104	mg/L	0.0070	0.33%
Si 288.158†	3377.2	2.291	mg/L	0.0481	2.291	mg/L	0.0481	2.10%
Sn 189.927†	4074.7	1.110	mg/L	0.0030	1.110	mg/L	0.0030	0.27%
Sr 421.552†	688427.1	1.028	mg/L	0.0141	1.028	mg/L	0.0141	1.37%
Ti 334.903†	23704.2	1.078	mg/L	0.0216	1.078	mg/L	0.0216	2.01%
Tl 190.801†	3761.4	2.079	mg/L	0.0016	2.079	mg/L	0.0016	0.08%
V 292.402†	106180.7	1.084	mg/L	0.0112	1.084	mg/L	0.0112	1.03%
Zn 206.200†	707.8	1.042	mg/L	0.0173	1.042	mg/L	0.0173	1.66%

Sequence No.: 26
Sample ID: CB (0
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 3:36:41 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1956052.5	102.9	%	0.69				0.67%
ScR 361.383	278421.1	95.13	%	0.412				0.43%
Ag 328.068†	-5.7	-0.00003	mg/L	0.000035	-0.00003	mg/L	0.000035	108.65%
Al 308.215†	1.1	0.00085	mg/L	0.011272	0.00085	mg/L	0.011272	>999.9%
As 188.979†	-0.5	-0.00034	mg/L	0.001480	-0.00034	mg/L	0.001480	438.71%
B 249.677†	-9.2	-0.00266	mg/L	0.001086	-0.00266	mg/L	0.001086	40.90%
Ba 233.527†	8.5	0.00254	mg/L	0.000350	0.00254	mg/L	0.000350	13.80%
Be 313.042†	189.9	0.00033	mg/L	0.000086	0.00033	mg/L	0.000086	26.07%
Ca 317.933†	1.3	0.00009	mg/L	0.000799	0.00009	mg/L	0.000799	893.21%
Cd 228.802†	-4.8	-0.00022	mg/L	0.000268	-0.00022	mg/L	0.000268	122.09%
Co 228.616†	7.9	0.00026	mg/L	0.000254	0.00026	mg/L	0.000254	96.75%
Cr 267.716†	-2.3	-0.00044	mg/L	0.001280	-0.00044	mg/L	0.001280	288.48%
Cu 324.752†	536.9	0.00193	mg/L	0.000307	0.00193	mg/L	0.000307	15.93%
Fe 273.955†	-0.9	-0.00077	mg/L	0.002210	-0.00077	mg/L	0.002210	288.61%
K 766.490†	92.0	0.06330	mg/L	0.026816	0.06330	mg/L	0.026816	42.36%
Mg 279.077†	-5.5	-0.00587	mg/L	0.010659	-0.00587	mg/L	0.010659	181.58%
Mn 257.610†	7.6	0.00024	mg/L	0.000063	0.00024	mg/L	0.000063	26.09%
Mo 202.031†	4.5	0.00026	mg/L	0.000257	0.00026	mg/L	0.000257	97.79%
Na 589.592†	110.9	0.00930	mg/L	0.001181	0.00930	mg/L	0.001181	12.70%
Na 330.237†	7.1	0.2444	mg/L	0.35917	0.2444	mg/L	0.35917	146.95%
Ni 231.604†	5.7	0.00337	mg/L	0.000654	0.00337	mg/L	0.000654	19.42%
Pb 220.353†	-2.6	-0.00035	mg/L	0.001035	-0.00035	mg/L	0.001035	293.37%
Sb 206.836†	12.0	0.00449	mg/L	0.001456	0.00449	mg/L	0.001456	32.45%
Se 196.026†	7.4	0.00586	mg/L	0.006703	0.00586	mg/L	0.006703	114.41%
Si 288.158†	16.2	0.01094	mg/L	0.002193	0.01094	mg/L	0.002193	20.05%
Sn 189.927†	2.2	0.00061	mg/L	0.001000	0.00061	mg/L	0.001000	163.14%
Sr 421.552†	121.6	0.00018	mg/L	0.000074	0.00018	mg/L	0.000074	40.86%
Ti 334.903†	-11.4	-0.00052	mg/L	0.000365	-0.00052	mg/L	0.000365	70.21%
Tl 190.801†	3.6	0.00200	mg/L	0.001393	0.00200	mg/L	0.001393	69.51%
V 292.402†	16.0	0.00016	mg/L	0.000202	0.00016	mg/L	0.000202	124.49%
Zn 206.200†	0.2	0.00026	mg/L	0.002670	0.00026	mg/L	0.002670	>999.9%

Sequence No.: 27
Sample ID: RG51 F SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 311
Date Collected: 8/6/2010 3:40:37 PM
Data Type: Original

Nebulizer Parameters: RG51 F SWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG51 F SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2006157.7	105.5	%	1.45				1.37%
ScR 361.383	307636.9	105.1	%	2.02				1.93%
Ag 328.068†	-71.0	-0.00058	mg/L	0.000368	-0.00116	mg/L	0.000735	63.31%
Al 308.215†	207523.2	163.7	mg/L	3.05	327.4	mg/L	6.09	1.86%
As 188.979†	-214.9	0.03017	mg/L	0.002200	0.06034	mg/L	0.004399	7.29%
B 249.677†	30.3	0.00849	mg/L	0.003149	0.01698	mg/L	0.006298	37.10%
Ba 233.527†	2033.5	0.5894	mg/L	0.01329	1.179	mg/L	0.0266	2.25%
Be 313.042†	1375.5	0.00203	mg/L	0.000080	0.00405	mg/L	0.000161	3.96%
Ca 317.933†	707891.4	48.75	mg/L	0.864	97.50	mg/L	1.729	1.77%
Cd 228.802†	59.6	0.00348	mg/L	0.000199	0.00697	mg/L	0.000398	5.71%
Co 228.616†	3067.2	0.08235	mg/L	0.001195	0.1647	mg/L	0.00239	1.45%
Cr 267.716†	1911.0	0.3722	mg/L	0.00835	0.7445	mg/L	0.01669	2.24%
Cu 324.752†	47889.3	0.1822	mg/L	0.00284	0.3643	mg/L	0.00568	1.56%
Fe 273.955†	248155.4	217.0	mg/L	4.03	434.0	mg/L	8.07	1.86%
K 766.490†	9671.4	6.655	mg/L	0.1308	13.31	mg/L	0.262	1.96%
Mg 279.077†	63544.0	67.59	mg/L	1.171	135.2	mg/L	2.34	1.73%
Mn 257.610†	101066.8	3.207	mg/L	0.0618	6.414	mg/L	0.1236	1.93%
Mo 202.031†	189.7	0.01019	mg/L	0.000267	0.02038	mg/L	0.000535	2.62%
Na 589.592†	25673.7	2.153	mg/L	0.0426	4.307	mg/L	0.0853	1.98%
Na 330.237†	-22.7	2.137	mg/L	0.4260	4.273	mg/L	0.8521	19.94%
Ni 231.604†	539.4	0.3168	mg/L	0.00831	0.6335	mg/L	0.01663	2.62%
Pb 220.353†	132.7	0.03107	mg/L	0.002040	0.06213	mg/L	0.004080	6.57%
Sb 206.836†	40.1	0.02507	mg/L	0.002930	0.05015	mg/L	0.005860	11.69%
Se 196.026†	48.3	0.03476	mg/L	0.003380	0.06952	mg/L	0.006760	9.72%
Si 288.158†	3537.9	2.396	mg/L	0.0515	4.791	mg/L	0.1031	2.15%
Sn 189.927†	-38.4	-0.00368	mg/L	0.000420	-0.00735	mg/L	0.000839	11.42%
Sr 421.552†	186620.1	0.2786	mg/L	0.00505	0.5572	mg/L	0.01009	1.81%
Ti 334.903†	215725.9	9.821	mg/L	0.1820	19.64	mg/L	0.364	1.85%
Tl 190.801†	-45.0	0.00983	mg/L	0.007001	0.01965	mg/L	0.014002	71.25%
V 292.402†	46382.2	0.4447	mg/L	0.00693	0.8895	mg/L	0.01386	1.56%
Zn 206.200†	241.6	0.3512	mg/L	0.00675	0.7024	mg/L	0.01349	1.92%

Sequence No.: 28
Sample ID: RG51 G SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 312
Date Collected: 8/6/2010 3:44:23 PM
Data Type: Original

Nebulizer Parameters: RG51 G SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG51 G SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1991592.1	104.7	%	0.39				0.37%
ScR 361.383	307583.3	105.1	%	2.15				2.05%
Ag 328.068†	-83.1	-0.00079	mg/L	0.000300	-0.00159	mg/L	0.000601	37.81%
Al 308.215†	195179.6	154.0	mg/L	3.14	307.9	mg/L	6.27	2.04%
As 188.979†	-134.5	0.04073	mg/L	0.002811	0.08146	mg/L	0.005622	6.90%
B 249.677†	28.3	0.00796	mg/L	0.000933	0.01592	mg/L	0.001867	11.72%
Ba 233.527†	2632.3	0.7729	mg/L	0.01685	1.546	mg/L	0.0337	2.18%
Be 313.042†	1419.5	0.00216	mg/L	0.000168	0.00433	mg/L	0.000337	7.78%
Ca 317.933†	526800.3	36.28	mg/L	0.886	72.56	mg/L	1.771	2.44%
Cd 228.802†	102.6	0.00532	mg/L	0.000032	0.01065	mg/L	0.000065	0.61%
Co 228.616†	2570.6	0.07048	mg/L	0.000516	0.1410	mg/L	0.00103	0.73%
Cr 267.716†	1486.3	0.2901	mg/L	0.00784	0.5803	mg/L	0.01569	2.70%
Cu 324.752†	47179.0	0.1780	mg/L	0.00038	0.3560	mg/L	0.00076	0.21%
Fe 273.955†	201895.8	176.6	mg/L	3.81	353.1	mg/L	7.63	2.16%
K 766.490†	8110.7	5.581	mg/L	0.1642	11.16	mg/L	0.328	2.94%
Mg 279.077†	47657.8	50.69	mg/L	1.165	101.4	mg/L	2.33	2.30%
Mn 257.610†	107996.7	3.427	mg/L	0.0843	6.854	mg/L	0.1686	2.46%
Mo 202.031†	403.2	0.02283	mg/L	0.000208	0.04565	mg/L	0.000417	0.91%
Na 589.592†	19770.6	1.658	mg/L	0.0423	3.317	mg/L	0.0847	2.55%
Na 330.237†	-14.9	1.614	mg/L	0.1117	3.228	mg/L	0.2234	6.92%
Ni 231.604†	560.2	0.3290	mg/L	0.01078	0.6580	mg/L	0.02156	3.28%
Pb 220.353†	3185.8	0.4464	mg/L	0.00115	0.8929	mg/L	0.00231	0.26%
Sb 206.836†	35.1	0.02217	mg/L	0.000307	0.04434	mg/L	0.000615	1.39%
Se 196.026†	39.8	0.02885	mg/L	0.002572	0.05770	mg/L	0.005144	8.91%
Si 288.158†	3830.0	2.594	mg/L	0.0632	5.187	mg/L	0.1264	2.44%
Sn 189.927†	404.6	0.1151	mg/L	0.00140	0.2302	mg/L	0.00280	1.22%
Sr 421.552†	133376.0	0.1991	mg/L	0.00441	0.3982	mg/L	0.00881	2.21%
Ti 334.903†	161860.5	7.369	mg/L	0.1733	14.74	mg/L	0.347	2.35%
Tl 190.801†	-37.7	0.00818	mg/L	0.003199	0.01637	mg/L	0.006397	39.09%
V 292.402†	39971.3	0.3850	mg/L	0.00134	0.7700	mg/L	0.00268	0.35%
Zn 206.200†	356.8	0.5212	mg/L	0.00853	1.042	mg/L	0.0171	1.64%

Sequence No.: 29
Sample ID: RG54 A SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 313
Date Collected: 8/6/2010 3:48:05 PM
Data Type: Original

Nebulizer Parameters: RG54 A SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG54 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1988683.8	104.6	%	0.77				0.73%
ScR 361.383	307028.0	104.9	%	0.61				0.58%
Ag 328.068†	-99.9	-0.00079	mg/L	0.000159	-0.00158	mg/L	0.000319	20.11%
Al 308.215†	220179.3	173.7	mg/L	1.43	347.4	mg/L	2.85	0.82%
As 188.979†	-192.3	0.03136	mg/L	0.000252	0.06272	mg/L	0.000503	0.80%
B 249.677†	33.7	0.00949	mg/L	0.000629	0.01898	mg/L	0.001259	6.63%
Ba 233.527†	2280.4	0.6652	mg/L	0.00260	1.330	mg/L	0.0052	0.39%
Be 313.042†	1585.8	0.00238	mg/L	0.000012	0.00477	mg/L	0.000024	0.50%
Ca 317.933†	837921.5	57.71	mg/L	0.283	115.4	mg/L	0.57	0.49%
Cd 228.802†	74.2	0.00411	mg/L	0.000190	0.00821	mg/L	0.000381	4.63%
Co 228.616†	2979.0	0.08097	mg/L	0.000768	0.1619	mg/L	0.00154	0.95%
Cr 267.716†	1723.3	0.3365	mg/L	0.00299	0.6730	mg/L	0.00598	0.89%
Cu 324.752†	61913.4	0.2316	mg/L	0.00257	0.4632	mg/L	0.00515	1.11%
Fe 273.955†	224739.5	196.5	mg/L	1.45	393.1	mg/L	2.90	0.74%
K 766.490†	10601.5	7.295	mg/L	0.0506	14.59	mg/L	0.101	0.69%
Mg 279.077†	49577.0	52.72	mg/L	0.394	105.4	mg/L	0.79	0.75%
Mn 257.610†	105368.5	3.344	mg/L	0.0176	6.687	mg/L	0.0351	0.53%
Mo 202.031†	365.7	0.02027	mg/L	0.000708	0.04054	mg/L	0.001417	3.49%
Na 589.592†	37420.9	3.139	mg/L	0.0195	6.277	mg/L	0.0389	0.62%
Na 330.237†	14.6	3.227	mg/L	0.1896	6.455	mg/L	0.3792	5.87%
Ni 231.604†	520.5	0.3057	mg/L	0.00301	0.6114	mg/L	0.00602	0.98%
Pb 220.353†	1094.5	0.1646	mg/L	0.00023	0.3292	mg/L	0.00046	0.14%
Sb 206.836†	36.9	0.02337	mg/L	0.001738	0.04675	mg/L	0.003476	7.44%
Se 196.026†	51.7	0.03682	mg/L	0.009624	0.07364	mg/L	0.019249	26.14%
Si 288.158†	3307.2	2.239	mg/L	0.0182	4.479	mg/L	0.0363	0.81%
Sn 189.927†	-36.2	-0.00301	mg/L	0.001200	-0.00603	mg/L	0.002399	39.79%
Sr 421.552†	205851.4	0.3073	mg/L	0.00252	0.6146	mg/L	0.00503	0.82%
Ti 334.903†	198841.3	9.051	mg/L	0.0490	18.10	mg/L	0.098	0.54%
Tl 190.801†	-39.3	0.01000	mg/L	0.004244	0.01999	mg/L	0.008488	42.46%
V 292.402†	49211.8	0.4760	mg/L	0.00577	0.9520	mg/L	0.01155	1.21%
Zn 206.200†	334.8	0.4883	mg/L	0.00173	0.9765	mg/L	0.00347	0.35%

Sequence No.: 30
Sample ID: RG54 B SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 314
Date Collected: 8/6/2010 3:52:02 PM
Data Type: Original

Nebulizer Parameters: RG54 B SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG54 B SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1985693.9	104.4	%	1.09				1.04%
ScR 361.383	308106.6	105.3	%	0.86				0.82%
Ag 328.068†	-44.4	-0.00045	mg/L	0.000124	-0.00090	mg/L	0.000247	27.41%
Al 308.215†	183083.0	144.4	mg/L	1.73	288.9	mg/L	3.45	1.20%
As 188.979†	-169.2	0.01483	mg/L	0.002473	0.02965	mg/L	0.004946	16.68%
B 249.677†	18.8	0.00518	mg/L	0.000161	0.01037	mg/L	0.000323	3.11%
Ba 233.527†	1816.1	0.5291	mg/L	0.00498	1.058	mg/L	0.0100	0.94%
Be 313.042†	1208.4	0.00181	mg/L	0.000052	0.00361	mg/L	0.000105	2.90%
Ca 317.933†	534529.5	36.81	mg/L	0.423	73.63	mg/L	0.846	1.15%
Cd 228.802†	45.5	0.00276	mg/L	0.000207	0.00552	mg/L	0.000414	7.50%
Co 228.616†	2768.0	0.07743	mg/L	0.000756	0.1549	mg/L	0.00151	0.98%
Cr 267.716†	1618.9	0.3153	mg/L	0.00289	0.6305	mg/L	0.00579	0.92%
Cu 324.752†	40084.1	0.1518	mg/L	0.00212	0.3035	mg/L	0.00424	1.40%
Fe 273.955†	188932.4	165.2	mg/L	1.73	330.5	mg/L	3.46	1.05%
K 766.490†	7614.2	5.240	mg/L	0.0506	10.48	mg/L	0.101	0.97%
Mg 279.077†	48734.7	51.84	mg/L	0.626	103.7	mg/L	1.25	1.21%
Mn 257.610†	87161.6	2.766	mg/L	0.0276	5.532	mg/L	0.0552	1.00%
Mo 202.031†	82.3	0.00415	mg/L	0.000299	0.00830	mg/L	0.000598	7.21%
Na 589.592†	15768.5	1.323	mg/L	0.0142	2.645	mg/L	0.0284	1.07%
Na 330.237†	-20.0	1.447	mg/L	0.1258	2.894	mg/L	0.2516	8.69%
Ni 231.604†	658.5	0.3867	mg/L	0.00393	0.7733	mg/L	0.00787	1.02%
Pb 220.353†	110.9	0.02839	mg/L	0.001101	0.05678	mg/L	0.002202	3.88%
Sb 206.836†	25.5	0.01674	mg/L	0.002859	0.03348	mg/L	0.005718	17.08%
Se 196.026†	46.0	0.03375	mg/L	0.004675	0.06751	mg/L	0.009350	13.85%
Si 288.158†	8156.3	5.523	mg/L	0.0760	11.05	mg/L	0.152	1.38%
Sn 189.927†	-30.1	-0.00316	mg/L	0.002167	-0.00632	mg/L	0.004333	68.58%
Sr 421.552†	149010.0	0.2224	mg/L	0.00228	0.4449	mg/L	0.00456	1.02%
Ti 334.903†	158925.4	7.235	mg/L	0.0822	14.47	mg/L	0.164	1.14%
Tl 190.801†	-28.1	0.01109	mg/L	0.001630	0.02217	mg/L	0.003260	14.70%
V 292.402†	38881.6	0.3752	mg/L	0.00738	0.7504	mg/L	0.01475	1.97%
Zn 206.200†	237.4	0.3455	mg/L	0.00378	0.6911	mg/L	0.00756	1.09%

Sequence No.: 31
Sample ID: RG54 C SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 315
Date Collected: 8/6/2010 3:55:44 PM
Data Type: Original

Nebulizer Parameters: RG54 C SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG54 C SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1999786.3	105.2	%	0.21				0.20%
ScR 361.383	310226.7	106.0	%	1.42				1.34%
Ag 328.068†	-91.2	-0.00072	mg/L	0.000427	-0.00143	mg/L	0.000855	59.60%
Al 308.215†	188173.6	148.4	mg/L	0.48	296.9	mg/L	0.95	0.32%
As 188.979†	-161.1	0.02450	mg/L	0.002343	0.04900	mg/L	0.004685	9.56%
B 249.677†	34.9	0.00985	mg/L	0.001734	0.01970	mg/L	0.003468	17.60%
Ba 233.527†	1982.5	0.5792	mg/L	0.00710	1.158	mg/L	0.0142	1.23%
Be 313.042†	1317.8	0.00199	mg/L	0.000051	0.00398	mg/L	0.000102	2.56%
Ca 317.933†	590469.4	40.67	mg/L	0.130	81.33	mg/L	0.261	0.32%
Cd 228.802†	55.8	0.00322	mg/L	0.000096	0.00643	mg/L	0.000193	3.00%
Co 228.616†	2664.1	0.07360	mg/L	0.000173	0.1472	mg/L	0.00035	0.24%
Cr 267.716†	1487.3	0.2896	mg/L	0.00482	0.5793	mg/L	0.00964	1.66%
Cu 324.752†	62641.6	0.2324	mg/L	0.00073	0.4649	mg/L	0.00145	0.31%
Fe 273.955†	186345.7	163.0	mg/L	0.64	325.9	mg/L	1.29	0.39%
K 766.490†	7931.2	5.458	mg/L	0.0116	10.92	mg/L	0.023	0.21%
Mg 279.077†	47478.8	50.50	mg/L	0.126	101.0	mg/L	0.25	0.25%
Mn 257.610†	88988.8	2.824	mg/L	0.0150	5.648	mg/L	0.0300	0.53%
Mo 202.031†	81.2	0.00402	mg/L	0.000135	0.00803	mg/L	0.000269	3.35%
Na 589.592†	18127.1	1.520	mg/L	0.0105	3.041	mg/L	0.0209	0.69%
Na 330.237†	-18.1	1.583	mg/L	0.2425	3.165	mg/L	0.4850	15.32%
Ni 231.604†	629.7	0.3698	mg/L	0.00682	0.7395	mg/L	0.01364	1.84%
Pb 220.353†	673.4	0.1054	mg/L	0.00069	0.2108	mg/L	0.00138	0.66%
Sb 206.836†	25.6	0.01736	mg/L	0.001970	0.03471	mg/L	0.003940	11.35%
Se 196.026†	45.2	0.03280	mg/L	0.005519	0.06560	mg/L	0.011038	16.83%
Si 288.158†	7673.0	5.196	mg/L	0.0216	10.39	mg/L	0.043	0.42%
Sn 189.927†	-30.2	-0.00289	mg/L	0.001024	-0.00578	mg/L	0.002047	35.41%
Sr 421.552†	161122.0	0.2405	mg/L	0.00060	0.4810	mg/L	0.00120	0.25%
Ti 334.903†	164165.2	7.473	mg/L	0.0326	14.95	mg/L	0.065	0.44%
Tl 190.801†	-34.6	0.00722	mg/L	0.001855	0.01444	mg/L	0.003710	25.70%
V 292.402†	39319.1	0.3797	mg/L	0.00127	0.7593	mg/L	0.00255	0.34%
Zn 206.200†	290.5	0.4238	mg/L	0.00672	0.8476	mg/L	0.01345	1.59%

Sequence No.: 32
Sample ID: RG54 E SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 316
Date Collected: 8/6/2010 3:59:26 PM
Data Type: Original

Nebulizer Parameters: RG54 E SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG54 E SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1992198.7	104.8	%	0.63				0.60%
ScR 361.383	304370.4	104.0	%	2.16				2.08%
Ag 328.068†	-31.4	-0.00036	mg/L	0.000261	-0.00072	mg/L	0.000521	72.79%
Al 308.215†	202103.6	159.4	mg/L	2.34	318.9	mg/L	4.67	1.47%
As 188.979†	-150.2	0.04286	mg/L	0.002809	0.08572	mg/L	0.005618	6.55%
B 249.677†	40.2	0.01140	mg/L	0.001365	0.02280	mg/L	0.002730	11.97%
Ba 233.527†	2273.9	0.6662	mg/L	0.01360	1.332	mg/L	0.0272	2.04%
Be 313.042†	1703.9	0.00266	mg/L	0.000066	0.00533	mg/L	0.000133	2.49%
Ca 317.933†	565916.5	38.97	mg/L	0.645	77.95	mg/L	1.290	1.66%
Cd 228.802†	80.2	0.00430	mg/L	0.000114	0.00859	mg/L	0.000227	2.64%
Co 228.616†	2260.5	0.05913	mg/L	0.000802	0.1183	mg/L	0.00160	1.36%
Cr 267.716†	1740.9	0.3401	mg/L	0.00753	0.6802	mg/L	0.01506	2.21%
Cu 324.752†	34232.8	0.1308	mg/L	0.00059	0.2615	mg/L	0.00118	0.45%
Fe 273.955†	190865.1	166.9	mg/L	2.91	333.8	mg/L	5.82	1.74%
K 766.490†	7133.1	4.909	mg/L	0.0418	9.817	mg/L	0.0835	0.85%
Mg 279.077†	41165.4	43.77	mg/L	0.689	87.55	mg/L	1.377	1.57%
Mn 257.610†	87978.9	2.792	mg/L	0.0542	5.583	mg/L	0.1083	1.94%
Mo 202.031†	160.6	0.00867	mg/L	0.000361	0.01733	mg/L	0.000722	4.16%
Na 589.592†	18073.1	1.516	mg/L	0.0307	3.032	mg/L	0.0613	2.02%
Na 330.237†	-30.6	1.309	mg/L	0.1729	2.619	mg/L	0.3458	13.21%
Ni 231.604†	528.7	0.3105	mg/L	0.00898	0.6209	mg/L	0.01795	2.89%
Pb 220.353†	998.3	0.1513	mg/L	0.00262	0.3026	mg/L	0.00524	1.73%
Sb 206.836†	11.6	0.01884	mg/L	0.001282	0.03769	mg/L	0.002564	6.80%
Se 196.026†	41.7	0.03016	mg/L	0.007757	0.06033	mg/L	0.015515	25.72%
Si 288.158†	7305.8	4.947	mg/L	0.0930	9.894	mg/L	0.1860	1.88%
Sn 189.927†	2024.5	0.5561	mg/L	0.00562	1.112	mg/L	0.0112	1.01%
Sr 421.552†	151436.7	0.2261	mg/L	0.00323	0.4521	mg/L	0.00647	1.43%
Ti 334.903†	177506.8	8.081	mg/L	0.1396	16.16	mg/L	0.279	1.73%
Tl 190.801†	-27.9	0.01153	mg/L	0.001816	0.02306	mg/L	0.003633	15.75%
V 292.402†	37096.3	0.3565	mg/L	0.00196	0.7130	mg/L	0.00391	0.55%
Zn 206.200†	294.3	0.4290	mg/L	0.01230	0.8580	mg/L	0.02461	2.87%

Sequence No.: 33
Sample ID: RG54 F SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 317
Date Collected: 8/6/2010 4:03:08 PM
Data Type: Original

Nebulizer Parameters: RG54 F SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG54 F SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2005302.4	105.4	%	0.59				0.56%
ScR 361.383	313633.1	107.2	%	1.84				1.72%
Ag 328.068†	-118.5	-0.00076	mg/L	0.000032	-0.00151	mg/L	0.000064	4.25%
Al 308.215†	205698.4	162.3	mg/L	1.62	324.5	mg/L	3.24	1.00%
As 188.979†	-175.9	0.02662	mg/L	0.005195	0.05325	mg/L	0.010389	19.51%
B 249.677†	31.7	0.00893	mg/L	0.001874	0.01786	mg/L	0.003748	20.98%
Ba 233.527†	1930.7	0.5619	mg/L	0.01081	1.124	mg/L	0.0216	1.92%
Be 313.042†	1396.6	0.00210	mg/L	0.000039	0.00419	mg/L	0.000077	1.84%
Ca 317.933†	647565.9	44.60	mg/L	0.442	89.20	mg/L	0.884	0.99%
Cd 228.802†	45.7	0.00276	mg/L	0.000213	0.00551	mg/L	0.000425	7.71%
Co 228.616†	2689.9	0.07308	mg/L	0.000893	0.1462	mg/L	0.00179	1.22%
Cr 267.716†	1966.8	0.3826	mg/L	0.00572	0.7651	mg/L	0.01143	1.49%
Cu 324.752†	38184.9	0.1456	mg/L	0.00013	0.2912	mg/L	0.00027	0.09%
Fe 273.955†	207411.7	181.4	mg/L	1.77	362.8	mg/L	3.54	0.98%
K 766.490†	10070.9	6.930	mg/L	0.0644	13.86	mg/L	0.129	0.93%
Mg 279.077†	55930.3	59.50	mg/L	0.574	119.0	mg/L	1.15	0.97%
Mn 257.610†	75881.8	2.408	mg/L	0.0255	4.816	mg/L	0.0511	1.06%
Mo 202.031†	84.0	0.00411	mg/L	0.000342	0.00822	mg/L	0.000683	8.31%
Na 589.592†	15850.0	1.329	mg/L	0.0155	2.659	mg/L	0.0310	1.17%
Na 330.237†	-30.4	1.405	mg/L	0.1341	2.809	mg/L	0.2682	9.55%
Ni 231.604†	578.5	0.3397	mg/L	0.00651	0.6794	mg/L	0.01302	1.92%
Pb 220.353†	9.8	0.01671	mg/L	0.000654	0.03341	mg/L	0.001308	3.92%
Sb 206.836†	34.0	0.02045	mg/L	0.003593	0.04091	mg/L	0.007185	17.56%
Se 196.026†	45.5	0.03283	mg/L	0.006535	0.06565	mg/L	0.013070	19.91%
Si 288.158†	2192.7	1.485	mg/L	0.0273	2.970	mg/L	0.0546	1.84%
Sn 189.927†	-46.8	-0.00692	mg/L	0.001056	-0.01383	mg/L	0.002113	15.27%
Sr 421.552†	129145.8	0.1928	mg/L	0.00174	0.3856	mg/L	0.00347	0.90%
Ti 334.903†	179174.9	8.157	mg/L	0.0784	16.31	mg/L	0.157	0.96%
Tl 190.801†	-34.2	0.00968	mg/L	0.002715	0.01937	mg/L	0.005431	28.04%
V 292.402†	43442.2	0.4195	mg/L	0.00109	0.8391	mg/L	0.00218	0.26%
Zn 206.200†	195.1	0.2828	mg/L	0.00585	0.5656	mg/L	0.01170	2.07%

Sequence No.: 34
Sample ID: RG54 H SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 318
Date Collected: 8/6/2010 4:06:50 PM
Data Type: Original

Nebulizer Parameters: RG54 H SWC

Analyte	Back Pressure	Flow
A11	201.0 kPa	0.75 L/min

Mean Data: RG54 H SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2032843.1	106.9	%	1.04				0.97%
ScR 361.383	314617.8	107.5	%	0.99				0.92%
Ag 328.068†	-106.5	-0.00079	mg/L	0.000061	-0.00158	mg/L	0.000122	7.70%
Al 308.215†	207711.5	163.9	mg/L	0.29	327.7	mg/L	0.58	0.18%
As 188.979†	-208.5	0.02583	mg/L	0.000610	0.05166	mg/L	0.001221	2.36%
B 249.677†	23.8	0.00663	mg/L	0.000601	0.01326	mg/L	0.001201	9.06%
Ba 233.527†	2064.6	0.6010	mg/L	0.00594	1.202	mg/L	0.0119	0.99%
Be 313.042†	1398.3	0.00206	mg/L	0.000061	0.00412	mg/L	0.000122	2.97%
Ca 317.933†	725714.4	49.98	mg/L	0.168	99.96	mg/L	0.337	0.34%
Cd 228.802†	59.4	0.00348	mg/L	0.000309	0.00696	mg/L	0.000618	8.89%
Co 228.616†	2980.1	0.08059	mg/L	0.000694	0.1612	mg/L	0.00139	0.86%
Cr 267.716†	1786.3	0.3480	mg/L	0.00456	0.6960	mg/L	0.00912	1.31%
Cu 324.752†	47205.9	0.1783	mg/L	0.00174	0.3565	mg/L	0.00348	0.98%
Fe 273.955†	218828.7	191.4	mg/L	0.38	382.8	mg/L	0.75	0.20%
K 766.490†	10922.1	7.516	mg/L	0.0763	15.03	mg/L	0.153	1.02%
Mg 279.077†	54515.9	57.98	mg/L	0.891	116.0	mg/L	1.78	1.54%
Mn 257.610†	100669.0	3.194	mg/L	0.0380	6.389	mg/L	0.0761	1.19%
Mo 202.031†	240.4	0.01312	mg/L	0.000078	0.02623	mg/L	0.000156	0.59%
Na 589.592†	31248.8	2.621	mg/L	0.0328	5.242	mg/L	0.0655	1.25%
Na 330.237†	-4.7	2.626	mg/L	0.0581	5.252	mg/L	0.1162	2.21%
Ni 231.604†	590.9	0.3470	mg/L	0.00308	0.6940	mg/L	0.00615	0.89%
Pb 220.353†	412.5	0.07081	mg/L	0.001851	0.1416	mg/L	0.00370	2.61%
Sb 206.836†	30.5	0.02125	mg/L	0.002007	0.04250	mg/L	0.004014	9.45%
Se 196.026†	46.5	0.03321	mg/L	0.005790	0.06643	mg/L	0.011579	17.43%
Si 288.158†	3315.8	2.245	mg/L	0.0179	4.491	mg/L	0.0358	0.80%
Sn 189.927†	-33.3	-0.00247	mg/L	0.000348	-0.00493	mg/L	0.000696	14.11%
Sr 421.552†	204065.2	0.3046	mg/L	0.00081	0.6092	mg/L	0.00161	0.26%
Ti 334.903†	205173.2	9.340	mg/L	0.0277	18.68	mg/L	0.055	0.30%
Tl 190.801†	-30.1	0.01414	mg/L	0.002206	0.02829	mg/L	0.004413	15.60%
V 292.402†	48464.7	0.4688	mg/L	0.00468	0.9377	mg/L	0.00935	1.00%
Zn 206.200†	250.6	0.3645	mg/L	0.00463	0.7290	mg/L	0.00926	1.27%

Sequence No.: 35
Sample ID: RG54 I SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 319
Date Collected: 8/6/2010 4:10:48 PM
Data Type: Original

Nebulizer Parameters: RG54 I SWC

Analyte	Back Pressure	Flow
A11	200.0 kPa	0.75 L/min

Mean Data: RG54 I SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1999089.7	105.1	%	0.79				0.75%
ScR 361.383	311999.0	106.6	%	0.72				0.68%
Ag 328.068†	-96.8	-0.00067	mg/L	0.000102	-0.00134	mg/L	0.000203	15.22%
Al 308.215†	206399.5	162.8	mg/L	1.90	325.6	mg/L	3.79	1.16%
As 188.979†	-191.7	0.01555	mg/L	0.000527	0.03110	mg/L	0.001054	3.39%
B 249.677†	28.9	0.00812	mg/L	0.001332	0.01624	mg/L	0.002664	16.40%
Ba 233.527†	2515.4	0.7391	mg/L	0.00528	1.478	mg/L	0.0106	0.71%
Be 313.042†	1287.9	0.00194	mg/L	0.000083	0.00387	mg/L	0.000165	4.27%
Ca 317.933†	515652.9	35.51	mg/L	0.435	71.03	mg/L	0.869	1.22%
Cd 228.802†	43.4	0.00268	mg/L	0.000127	0.00535	mg/L	0.000253	4.73%
Co 228.616†	2591.1	0.07009	mg/L	0.000791	0.1402	mg/L	0.00158	1.13%
Cr 267.716†	1330.7	0.2591	mg/L	0.00076	0.5181	mg/L	0.00152	0.29%
Cu 324.752†	33599.4	0.1280	mg/L	0.00121	0.2559	mg/L	0.00241	0.94%
Fe 273.955†	185435.3	162.2	mg/L	1.77	324.3	mg/L	3.53	1.09%
K 766.490†	9457.4	6.508	mg/L	0.0766	13.02	mg/L	0.153	1.18%
Mg 279.077†	48679.3	51.78	mg/L	0.597	103.6	mg/L	1.19	1.15%
Mn 257.610†	79437.8	2.521	mg/L	0.0280	5.041	mg/L	0.0561	1.11%
Mo 202.031†	74.9	0.00374	mg/L	0.000808	0.00748	mg/L	0.001616	21.60%
Na 589.592†	15278.4	1.281	mg/L	0.0114	2.563	mg/L	0.0228	0.89%
Na 330.237†	-38.4	1.064	mg/L	0.0928	2.128	mg/L	0.1855	8.72%
Ni 231.604†	553.9	0.3253	mg/L	0.00246	0.6505	mg/L	0.00491	0.76%
Pb 220.353†	344.0	0.06327	mg/L	0.001280	0.1265	mg/L	0.00256	2.02%
Sb 206.836†	25.2	0.01833	mg/L	0.003214	0.03665	mg/L	0.006428	17.54%
Se 196.026†	43.7	0.03204	mg/L	0.005386	0.06408	mg/L	0.010773	16.81%
Si 288.158†	3519.9	2.384	mg/L	0.0233	4.767	mg/L	0.0466	0.98%
Sn 189.927†	-30.6	-0.00296	mg/L	0.001044	-0.00592	mg/L	0.002089	35.28%
Sr 421.552†	161102.5	0.2405	mg/L	0.00259	0.4810	mg/L	0.00518	1.08%
Ti 334.903†	178241.4	8.115	mg/L	0.0966	16.23	mg/L	0.193	1.19%
Tl 190.801†	-28.7	0.01008	mg/L	0.002498	0.02017	mg/L	0.004996	24.77%
V 292.402†	38419.7	0.3700	mg/L	0.00260	0.7401	mg/L	0.00520	0.70%
Zn 206.200†	192.5	0.2790	mg/L	0.00293	0.5579	mg/L	0.00585	1.05%

Sequence No.: 36
Sample ID: RG54 J SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 320
Date Collected: 8/6/2010 4:14:30 PM
Data Type: Original

Nebulizer Parameters: RG54 J SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG54 J SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2006313.9	105.5	%	0.46				0.44%
ScR 361.383	313088.8	107.0	%	0.40				0.37%
Ag 328.068†	-85.2	-0.00054	mg/L	0.000033	-0.00109	mg/L	0.000065	6.01%
Al 308.215†	224313.4	177.0	mg/L	0.75	353.9	mg/L	1.49	0.42%
As 188.979†	-210.0	0.01560	mg/L	0.005562	0.03121	mg/L	0.011124	35.64%
B 249.677†	22.4	0.00625	mg/L	0.001362	0.01250	mg/L	0.002725	21.80%
Ba 233.527†	2397.3	0.7023	mg/L	0.00222	1.405	mg/L	0.0044	0.32%
Be 313.042†	1414.3	0.00213	mg/L	0.000013	0.00425	mg/L	0.000025	0.60%
Ca 317.933†	498554.3	34.34	mg/L	0.279	68.67	mg/L	0.558	0.81%
Cd 228.802†	41.6	0.00262	mg/L	0.000175	0.00524	mg/L	0.000349	6.67%
Co 228.616†	2681.8	0.07175	mg/L	0.000292	0.1435	mg/L	0.00058	0.41%
Cr 267.716†	1319.7	0.2573	mg/L	0.00124	0.5146	mg/L	0.00247	0.48%
Cu 324.752†	40076.4	0.1520	mg/L	0.00064	0.3039	mg/L	0.00128	0.42%
Fe 273.955†	203032.1	177.6	mg/L	0.98	355.1	mg/L	1.96	0.55%
K 766.490†	13667.1	9.405	mg/L	0.0522	18.81	mg/L	0.104	0.56%
Mg 279.077†	51394.5	54.67	mg/L	0.237	109.3	mg/L	0.47	0.43%
Mn 257.610†	75120.3	2.384	mg/L	0.0197	4.767	mg/L	0.0394	0.83%
Mo 202.031†	91.9	0.00475	mg/L	0.000089	0.00950	mg/L	0.000177	1.87%
Na 589.592†	15058.1	1.263	mg/L	0.0051	2.526	mg/L	0.0102	0.40%
Na 330.237†	-42.5	1.102	mg/L	0.1421	2.205	mg/L	0.2842	12.89%
Ni 231.604†	522.7	0.3069	mg/L	0.00176	0.6139	mg/L	0.00353	0.57%
Pb 220.353†	17.7	0.02028	mg/L	0.001172	0.04055	mg/L	0.002343	5.78%
Sb 206.836†	25.1	0.01931	mg/L	0.001002	0.03862	mg/L	0.002003	5.19%
Se 196.026†	38.3	0.02782	mg/L	0.009135	0.05564	mg/L	0.018269	32.83%
Si 288.158†	5152.0	3.489	mg/L	0.0144	6.977	mg/L	0.0288	0.41%
Sn 189.927†	-32.1	-0.00312	mg/L	0.000839	-0.00623	mg/L	0.001679	26.94%
Sr 421.552†	162281.7	0.2422	mg/L	0.00155	0.4845	mg/L	0.00310	0.64%
Ti 334.903†	193336.6	8.802	mg/L	0.0486	17.60	mg/L	0.097	0.55%
Tl 190.801†	-34.9	0.00880	mg/L	0.001845	0.01760	mg/L	0.003690	20.97%
V 292.402†	42591.9	0.4104	mg/L	0.00254	0.8208	mg/L	0.00508	0.62%
Zn 206.200†	199.5	0.2889	mg/L	0.00225	0.5779	mg/L	0.00450	0.78%

Sequence No.: 37
Sample ID: CV
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 4:18:12 PM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1961836.6	103.2	%	0.42				0.41%
ScR 361.383	298838.7	102.1	%	0.27				0.27%
Ag 328.068†	188696.0	1.064	mg/L	0.0017	1.064	mg/L	0.0017	0.16%
Al 308.215†	2820.7	2.192	mg/L	0.0136	2.192	mg/L	0.0136	0.62%
As 188.979†	3069.3	2.099	mg/L	0.0081	2.099	mg/L	0.0081	0.38%
B 249.677†	3508.0	1.010	mg/L	0.0012	1.010	mg/L	0.0012	0.12%
Ba 233.527†	3463.5	1.038	mg/L	0.0021	1.038	mg/L	0.0021	0.20%
Be 313.042†	586226.9	1.014	mg/L	0.0039	1.014	mg/L	0.0039	0.39%
Ca 317.933†	32882.5	2.265	mg/L	0.0169	2.265	mg/L	0.0169	0.75%
Cd 228.802†	23941.5	1.116	mg/L	0.0031	1.116	mg/L	0.0031	0.28%
Co 228.616†	33058.6	1.095	mg/L	0.0011	1.095	mg/L	0.0011	0.10%
Cr 267.716†	5426.4	1.055	mg/L	0.0018	1.055	mg/L	0.0018	0.18%
Cu 324.752†	299059.8	1.072	mg/L	0.0026	1.072	mg/L	0.0026	0.24%
Fe 273.955†	2525.5	2.203	mg/L	0.0067	2.203	mg/L	0.0067	0.30%
K 766.490†	32760.1	22.54	mg/L	0.108	22.54	mg/L	0.108	0.48%
Mg 279.077†	2081.6	2.223	mg/L	0.0093	2.223	mg/L	0.0093	0.42%
Mn 257.610†	31236.0	0.9917	mg/L	0.00365	0.9917	mg/L	0.00365	0.37%
Mo 202.031†	18276.8	1.063	mg/L	0.0029	1.063	mg/L	0.0029	0.27%
Na 589.592†	597315.7	50.10	mg/L	0.091	50.10	mg/L	0.091	0.18%
Na 330.237†	1596.5	54.95	mg/L	0.222	54.95	mg/L	0.222	0.40%
Ni 231.604†	1780.8	1.047	mg/L	0.0050	1.047	mg/L	0.0050	0.48%
Pb 220.353†	15111.3	2.052	mg/L	0.0017	2.052	mg/L	0.0017	0.08%
Sb 206.836†	6008.2	2.245	mg/L	0.0120	2.245	mg/L	0.0120	0.53%
Se 196.026†	2673.5	2.105	mg/L	0.0079	2.105	mg/L	0.0079	0.37%
Si 288.158†	3351.6	2.273	mg/L	0.0057	2.273	mg/L	0.0057	0.25%
Sn 189.927†	4075.2	1.110	mg/L	0.0071	1.110	mg/L	0.0071	0.64%
Sr 421.552†	689602.8	1.029	mg/L	0.0018	1.029	mg/L	0.0018	0.17%
Ti 334.903†	23573.0	1.072	mg/L	0.0051	1.072	mg/L	0.0051	0.48%
Tl 190.801†	3754.2	2.075	mg/L	0.0119	2.075	mg/L	0.0119	0.58%
V 292.402†	106117.4	1.084	mg/L	0.0055	1.084	mg/L	0.0055	0.51%
Zn 206.200†	701.0	1.032	mg/L	0.0050	1.032	mg/L	0.0050	0.49%

Sequence No.: 38
Sample ID: CB 11
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 4:22:21 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1977349.4	104.0	%	1.36				1.31%
ScR 361.383	304676.0	104.1	%	1.66				1.60%
Ag 328.068†	15.3	0.00009	mg/L	0.000164	0.00009	mg/L	0.000164	188.89%
Al 308.215†	10.4	0.00818	mg/L	0.019798	0.00818	mg/L	0.019798	242.02%
As 188.979†	2.5	0.00173	mg/L	0.002885	0.00173	mg/L	0.002885	166.85%
B 249.677†	-0.7	-0.00021	mg/L	0.001786	-0.00021	mg/L	0.001786	850.37%
Ba 233.527†	5.8	0.00174	mg/L	0.000618	0.00174	mg/L	0.000618	35.59%
Be 313.042†	49.2	0.00009	mg/L	0.000103	0.00009	mg/L	0.000103	120.86%
Ca 317.933†	17.1	0.00118	mg/L	0.000316	0.00118	mg/L	0.000316	26.84%
Cd 228.802†	-5.0	-0.00024	mg/L	0.000014	-0.00024	mg/L	0.000014	5.68%
Co 228.616†	-0.8	-0.00003	mg/L	0.000215	-0.00003	mg/L	0.000215	750.95%
Cr 267.716†	-3.9	-0.00076	mg/L	0.001610	-0.00076	mg/L	0.001610	210.90%
Cu 324.752†	439.9	0.00158	mg/L	0.000112	0.00158	mg/L	0.000112	7.13%
Fe 273.955†	-0.3	-0.00026	mg/L	0.002003	-0.00026	mg/L	0.002003	773.53%
K 766.490†	14.5	0.01001	mg/L	0.012952	0.01001	mg/L	0.012952	129.39%
Mg 279.077†	3.1	0.00328	mg/L	0.005067	0.00328	mg/L	0.005067	154.55%
Mn 257.610†	0.0	0.00000	mg/L	0.000055	0.00000	mg/L	0.000055	>999.9%
Mo 202.031†	-2.9	-0.00017	mg/L	0.000219	-0.00017	mg/L	0.000219	131.18%
Na 589.592†	15.1	0.00126	mg/L	0.003789	0.00126	mg/L	0.003789	299.83%
Na 330.237†	-1.0	-0.03445	mg/L	0.148507	-0.03445	mg/L	0.148507	431.10%
Ni 231.604†	5.0	0.00294	mg/L	0.001692	0.00294	mg/L	0.001692	57.60%
Pb 220.353†	0.3	0.00004	mg/L	0.000329	0.00004	mg/L	0.000329	895.93%
Sb 206.836†	5.8	0.00218	mg/L	0.001739	0.00218	mg/L	0.001739	79.88%
Se 196.026†	6.8	0.00539	mg/L	0.006418	0.00539	mg/L	0.006418	119.06%
Si 288.158†	10.7	0.00728	mg/L	0.004181	0.00728	mg/L	0.004181	57.45%
Sn 189.927†	3.4	0.00092	mg/L	0.000500	0.00092	mg/L	0.000500	54.53%
Sr 421.552†	25.0	0.00004	mg/L	0.000044	0.00004	mg/L	0.000044	118.48%
Ti 334.903†	11.2	0.00051	mg/L	0.000357	0.00051	mg/L	0.000357	70.19%
Tl 190.801†	1.5	0.00080	mg/L	0.000913	0.00080	mg/L	0.000913	113.72%
V 292.402†	28.7	0.00029	mg/L	0.000138	0.00029	mg/L	0.000138	47.80%
Zn 206.200†	-1.0	-0.00140	mg/L	0.000520	-0.00140	mg/L	0.000520	37.00%

8-9-10

Sequence No.: 39
Sample ID: RG42 MB SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 321
Date Collected: 8/6/2010 4:26:32 PM
Data Type: Original

DEL

Nebulizer Parameters: RG42 MB SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG42 MB SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1974990.7	103.9	%	0.57				0.55%
ScR 361.383	284087.0	97.06	%	0.597				0.62%
Ag 328.068†	17.6	0.00010	mg/L	0.000122	0.00020	mg/L	0.000243	122.45%
Al 308.215†	9.2	0.00726	mg/L	0.007438	0.01452	mg/L	0.014877	102.46%
As 188.979†	3.7	0.00251	mg/L	0.002886	0.00503	mg/L	0.005772	114.78%
B 249.677†	-8.1	-0.00233	mg/L	0.001297	-0.00467	mg/L	0.002595	55.58%
Ba 233.527†	15.5	0.00466	mg/L	0.000476	0.00932	mg/L	0.000951	10.21%
Be 313.042†	88.6	0.00015	mg/L	0.000018	0.00031	mg/L	0.000036	11.86%
Ca 317.933†	144.5	0.00995	mg/L	0.001270	0.01991	mg/L	0.002540	12.76%
Cd 228.802†	-3.9	-0.00019	mg/L	0.000173	-0.00038	mg/L	0.000347	90.71%
Co 228.616†	5.5	0.00018	mg/L	0.000111	0.00036	mg/L	0.000223	61.67%
Cr 267.716†	-6.4	-0.00125	mg/L	0.002089	-0.00250	mg/L	0.004178	167.28%
Cu 324.752†	487.1	0.00175	mg/L	0.000170	0.00350	mg/L	0.000339	9.70%
Fe 273.955†	5.8	0.00505	mg/L	0.000625	0.01010	mg/L	0.001250	12.38%
K 766.490†	102.6	0.07061	mg/L	0.026483	0.1412	mg/L	0.05297	37.51%
Mg 279.077†	-0.3	-0.00030	mg/L	0.003039	-0.00060	mg/L	0.006077	>999.9%
Mn 257.610†	3.0	0.00010	mg/L	0.000060	0.00019	mg/L	0.000121	62.92%
Mo 202.031†	-6.4	-0.00038	mg/L	0.000264	-0.00075	mg/L	0.000528	70.29%
Na 589.592†	7.3	0.00061	mg/L	0.002300	0.00122	mg/L	0.004600	377.90%
Na 330.237†	10.7	0.3685	mg/L	0.44962	0.7369	mg/L	0.89924	122.03%
Ni 231.604†	4.0	0.00234	mg/L	0.001336	0.00469	mg/L	0.002672	56.97%
Pb 220.353†	0.2	0.00002	mg/L	0.000192	0.00004	mg/L	0.000383	875.61%
Sb 206.836†	-2.9	-0.00105	mg/L	0.002042	-0.00210	mg/L	0.004084	194.05%
Se 196.026†	5.1	0.00398	mg/L	0.003027	0.00796	mg/L	0.006053	76.00%
Si 288.158†	18.6	0.01260	mg/L	0.003879	0.02519	mg/L	0.007758	30.79%
Sn 189.927†	5.4	0.00147	mg/L	0.000334	0.00295	mg/L	0.000669	22.70%
Sr 421.552†	93.5	0.00014	mg/L	0.000035	0.00028	mg/L	0.000071	25.41%
Ti 334.903†	-6.0	-0.00028	mg/L	0.000539	-0.00055	mg/L	0.001077	195.59%
Tl 190.801†	1.4	0.00075	mg/L	0.002261	0.00150	mg/L	0.004522	302.15%
V 292.402†	-8.8	-0.00010	mg/L	0.000172	-0.00019	mg/L	0.000343	180.58%
Zn 206.200†	0.8	0.00111	mg/L	0.002739	0.00222	mg/L	0.005478	247.27%

Sequence No.: 40
Sample ID: RG51 E SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 322
Date Collected: 8/6/2010 4:30:29 PM
Data Type: Original

Nebulizer Parameters: RG51 E SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG51 E SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1981555.1	104.2	%	0.86				0.83%
ScR 361.383	310111.7	106.0	%	0.69				0.65%
Ag 328.068†	-71.3	-0.00050	mg/L	0.000281	-0.00101	mg/L	0.000563	55.80%
Al 308.215†	173404.4	136.8	mg/L	0.90	273.6	mg/L	1.81	0.66%
As 188.979†	-170.7	0.01924	mg/L	0.003320	0.03848	mg/L	0.006640	17.26%
B 249.677†	29.3	0.00826	mg/L	0.001004	0.01652	mg/L	0.002009	12.16%
Ba 233.527†	1822.6	0.5319	mg/L	0.00501	1.064	mg/L	0.0100	0.94%
Be 313.042†	1219.5	0.00183	mg/L	0.000046	0.00366	mg/L	0.000091	2.49%
Ca 317.933†	492071.2	33.89	mg/L	0.277	67.78	mg/L	0.554	0.82%
Cd 228.802†	45.6	0.00273	mg/L	0.000083	0.00545	mg/L	0.000166	3.04%
Co 228.616†	2461.8	0.06691	mg/L	0.000768	0.1338	mg/L	0.00154	1.15%
Cr 267.716†	1245.9	0.2423	mg/L	0.00123	0.4846	mg/L	0.00247	0.51%
Cu 324.752†	34685.6	0.1316	mg/L	0.00185	0.2632	mg/L	0.00370	1.41%
Fe 273.955†	177917.5	155.6	mg/L	1.00	311.2	mg/L	2.00	0.64%
K 766.490†	7737.0	5.324	mg/L	0.0057	10.65	mg/L	0.011	0.11%
Mg 279.077†	48381.6	51.47	mg/L	0.283	102.9	mg/L	0.57	0.55%
Mn 257.610†	72264.3	2.293	mg/L	0.0137	4.586	mg/L	0.0274	0.60%
Mo 202.031†	79.3	0.00403	mg/L	0.000469	0.00805	mg/L	0.000937	11.64%
Na 589.592†	13245.1	1.111	mg/L	0.0049	2.222	mg/L	0.0098	0.44%
Na 330.237†	-42.1	0.7687	mg/L	0.09422	1.537	mg/L	0.1884	12.26%
Ni 231.604†	534.5	0.3139	mg/L	0.00126	0.6278	mg/L	0.00253	0.40%
Pb 220.353†	138.1	0.03135	mg/L	0.001217	0.06269	mg/L	0.002434	3.88%
Sb 206.836†	23.9	0.01718	mg/L	0.001197	0.03436	mg/L	0.002395	6.97%
Se 196.026†	42.5	0.03119	mg/L	0.003470	0.06239	mg/L	0.006939	11.12%
Si 288.158†	4670.8	3.163	mg/L	0.0275	6.326	mg/L	0.0549	0.87%
Sn 189.927†	-36.6	-0.00493	mg/L	0.001351	-0.00986	mg/L	0.002703	27.42%
Sr 421.552†	120834.5	0.1804	mg/L	0.00135	0.3608	mg/L	0.00270	0.75%
Ti 334.903†	165343.4	7.527	mg/L	0.0456	15.05	mg/L	0.091	0.61%
Tl 190.801†	-28.4	0.00908	mg/L	0.003414	0.01816	mg/L	0.006828	37.60%
V 292.402†	37003.1	0.3566	mg/L	0.00248	0.7132	mg/L	0.00495	0.69%
Zn 206.200†	183.3	0.2662	mg/L	0.00434	0.5324	mg/L	0.00869	1.63%

Sequence No.: 41
Sample ID: RG42 A SWC
Analyst: ALA
Dilution: 2X

DEL

Autosampler Location: 323
Date Collected: 8/6/2010 4:34:25 PM
Data Type: Original

Nebulizer Parameters: RG42 A SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG42 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1969472.9	103.6	%	1.47				1.42%
ScR 361.383	298750.5	102.1	%	1.39				1.36%
Ag 328.068†	39.0	0.00023	mg/L	0.000161	0.00045	mg/L	0.000322	71.28%
Al 308.215†	38628.7	30.47	mg/L	0.471	60.94	mg/L	0.942	1.55%
As 188.979†	-22.6	0.01997	mg/L	0.003323	0.03993	mg/L	0.006647	16.65%
B 249.677†	768.4	0.2216	mg/L	0.00096	0.4431	mg/L	0.00191	0.43%
Ba 233.527†	619.7	0.1802	mg/L	0.00208	0.3604	mg/L	0.00416	1.15%
Be 313.042†	402.0	0.00060	mg/L	0.000018	0.00120	mg/L	0.000036	2.95%
Ca 317.933†	311887.1	21.48	mg/L	0.267	42.96	mg/L	0.533	1.24%
Cd 228.802†	79.3	0.00382	mg/L	0.000153	0.00764	mg/L	0.000305	4.00%
Co 228.616†	786.8	0.02197	mg/L	0.000515	0.04394	mg/L	0.001030	2.34%
Cr 267.716†	561.9	0.1086	mg/L	0.00159	0.2172	mg/L	0.00317	1.46%
Cu 324.752†	67807.3	0.2461	mg/L	0.00422	0.4923	mg/L	0.00845	1.72%
Fe 273.955†	67477.4	59.01	mg/L	0.714	118.0	mg/L	1.43	1.21%
K 766.490†	8135.8	5.599	mg/L	0.0770	11.20	mg/L	0.154	1.38%
Mg 279.077†	22054.2	23.47	mg/L	0.280	46.93	mg/L	0.559	1.19%
Mn 257.610†	14971.3	0.4752	mg/L	0.00671	0.9504	mg/L	0.01342	1.41%
Mo 202.031†	306.6	0.01746	mg/L	0.000159	0.03493	mg/L	0.000318	0.91%
Na 589.592†	699695.1	58.69	mg/L	0.629	117.4	mg/L	1.26	1.07%
Na 330.237†	1808.5	62.48	mg/L	0.936	125.0	mg/L	1.87	1.50%
Ni 231.604†	142.6	0.08373	mg/L	0.001232	0.1675	mg/L	0.00246	1.47%
Pb 220.353†	1867.1	0.2543	mg/L	0.00110	0.5087	mg/L	0.00220	0.43%
Sb 206.836†	21.6	0.01008	mg/L	0.000664	0.02017	mg/L	0.001329	6.59%
Se 196.026†	22.3	0.01607	mg/L	0.006301	0.03214	mg/L	0.012602	39.21%
Si 288.158†	2867.4	1.942	mg/L	0.0159	3.883	mg/L	0.0318	0.82%
Sn 189.927†	57.9	0.01765	mg/L	0.001554	0.03531	mg/L	0.003107	8.80%
Sr 421.552†	136266.6	0.2034	mg/L	0.00166	0.4068	mg/L	0.00332	0.82%
Ti 334.903†	43762.9	1.992	mg/L	0.0247	3.983	mg/L	0.0494	1.24%
Tl 190.801†	-4.8	0.00646	mg/L	0.001650	0.01291	mg/L	0.003299	25.55%
V 292.402†	13583.0	0.1312	mg/L	0.00155	0.2624	mg/L	0.00310	1.18%
Zn 206.200†	1047.5	1.542	mg/L	0.0169	3.084	mg/L	0.0338	1.10%

Sequence No.: 42
Sample ID: RG42 B SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 324
Date Collected: 8/6/2010 4:38:37 PM
Data Type: Original

DSL

Nebulizer Parameters: RG42 B SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG42 B SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1959222.9	103.0	%	0.84				0.81%
ScR 361.383	304150.4	103.9	%	0.37				0.35%
Ag 328.068†	70.7	0.00032	mg/L	0.000096	0.00063	mg/L	0.000192	30.40%
Al 308.215†	93083.1	73.42	mg/L	0.298	146.8	mg/L	0.60	0.41%
As 188.979†	-16.6	0.07788	mg/L	0.000687	0.1558	mg/L	0.00137	0.88%
B 249.677†	397.4	0.1145	mg/L	0.00075	0.2289	mg/L	0.00151	0.66%
Ba 233.527†	943.4	0.2679	mg/L	0.00122	0.5359	mg/L	0.00243	0.45%
Be 313.042†	807.9	0.00117	mg/L	0.000020	0.00234	mg/L	0.000039	1.68%
Ca 317.933†	455978.1	31.40	mg/L	0.134	62.81	mg/L	0.269	0.43%
Cd 228.802†	828.5	0.03902	mg/L	0.000364	0.07805	mg/L	0.000729	0.93%
Co 228.616†	1824.2	0.05004	mg/L	0.000669	0.1001	mg/L	0.00134	1.34%
Cr 267.716†	1757.9	0.3440	mg/L	0.00076	0.6880	mg/L	0.00153	0.22%
Cu 324.752†	149507.5	0.5449	mg/L	0.00472	1.090	mg/L	0.0094	0.87%
Fe 273.955†	181942.7	159.1	mg/L	0.93	318.2	mg/L	1.86	0.58%
K 766.490†	12795.3	8.805	mg/L	0.0738	17.61	mg/L	0.148	0.84%
Mg 279.077†	35391.0	37.63	mg/L	0.163	75.25	mg/L	0.327	0.43%
Mn 257.610†	52848.2	1.678	mg/L	0.0175	3.355	mg/L	0.0349	1.04%
Mo 202.031†	570.0	0.03261	mg/L	0.000567	0.06523	mg/L	0.001135	1.74%
Na 589.592†	522323.5	43.81	mg/L	0.365	87.62	mg/L	0.729	0.83%
Na 330.237†	1398.5	48.12	mg/L	0.186	96.24	mg/L	0.372	0.39%
Ni 231.604†	401.5	0.2358	mg/L	0.00225	0.4717	mg/L	0.00450	0.96%
Pb 220.353†	5677.1	0.7717	mg/L	0.00704	1.543	mg/L	0.0141	0.91%
Sb 206.836†	341.4	0.1316	mg/L	0.00089	0.2632	mg/L	0.00178	0.68%
Se 196.026†	37.0	0.02698	mg/L	0.003895	0.05396	mg/L	0.007790	14.44%
Si 288.158†	2371.4	1.606	mg/L	0.0139	3.212	mg/L	0.0278	0.86%
Sn 189.927†	155.9	0.04622	mg/L	0.001384	0.09244	mg/L	0.002768	2.99%
Sr 421.552†	213527.1	0.3187	mg/L	0.00195	0.6375	mg/L	0.00391	0.61%
Ti 334.903†	109792.6	4.998	mg/L	0.0340	9.995	mg/L	0.0680	0.68%
Tl 190.801†	-27.4	0.00973	mg/L	0.002364	0.01946	mg/L	0.004728	24.29%
V 292.402†	32667.9	0.3139	mg/L	0.00404	0.6279	mg/L	0.00808	1.29%
Zn 206.200†	4339.3	6.390	mg/L	0.0125	12.78	mg/L	0.025	0.20%

Sequence No.: 43
Sample ID: RG42 C SWC
Analyst: ALA
Dilution: 2X

DEL

Autosampler Location: 325
Date Collected: 8/6/2010 4:42:34 PM
Data Type: Original

Nebulizer Parameters: RG42 C SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG42 C SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2007583.3	105.6	%	0.28				0.26%
ScR 361.383	308912.1	105.5	%	0.21				0.20%
Ag 328.068†	21.5	0.00011	mg/L	0.000216	0.00022	mg/L	0.000433	195.85%
Al 308.215†	91212.6	71.95	mg/L	0.256	143.9	mg/L	0.51	0.36%
As 188.979†	-104.4	0.01644	mg/L	0.002108	0.03288	mg/L	0.004216	12.82%
B 249.677†	56.1	0.01604	mg/L	0.002118	0.03207	mg/L	0.004236	13.21%
Ba 233.527†	1244.5	0.3624	mg/L	0.00161	0.7248	mg/L	0.00321	0.44%
Be 313.042†	759.0	0.00111	mg/L	0.000013	0.00222	mg/L	0.000027	1.20%
Ca 317.933†	549693.7	37.86	mg/L	0.241	75.71	mg/L	0.481	0.64%
Cd 228.802†	114.8	0.00572	mg/L	0.000064	0.01143	mg/L	0.000128	1.12%
Co 228.616†	1721.4	0.04735	mg/L	0.000327	0.09470	mg/L	0.000655	0.69%
Cr 267.716†	1204.6	0.2354	mg/L	0.00068	0.4708	mg/L	0.00136	0.29%
Cu 324.752†	90342.0	0.3297	mg/L	0.00331	0.6594	mg/L	0.00663	1.00%
Fe 273.955†	130211.0	113.9	mg/L	0.45	227.8	mg/L	0.90	0.39%
K 766.490†	6053.6	4.166	mg/L	0.0207	8.332	mg/L	0.0415	0.50%
Mg 279.077†	25834.4	27.46	mg/L	0.141	54.93	mg/L	0.282	0.51%
Mn 257.610†	39496.5	1.253	mg/L	0.0077	2.507	mg/L	0.0154	0.61%
Mo 202.031†	264.9	0.01475	mg/L	0.000439	0.02951	mg/L	0.000878	2.98%
Na 589.592†	37172.8	3.118	mg/L	0.0067	6.236	mg/L	0.0134	0.22%
Na 330.237†	64.7	3.272	mg/L	0.0645	6.544	mg/L	0.1290	1.97%
Ni 231.604†	261.4	0.1535	mg/L	0.00208	0.3071	mg/L	0.00416	1.36%
Pb 220.353†	2423.5	0.3332	mg/L	0.00290	0.6663	mg/L	0.00580	0.87%
Sb 206.836†	27.1	0.01499	mg/L	0.000393	0.02999	mg/L	0.000787	2.62%
Se 196.026†	31.1	0.02191	mg/L	0.005381	0.04382	mg/L	0.010761	24.56%
Si 288.158†	2694.2	1.824	mg/L	0.0106	3.649	mg/L	0.0212	0.58%
Sn 189.927†	39.4	0.01471	mg/L	0.001012	0.02942	mg/L	0.002023	6.88%
Sr 421.552†	149783.6	0.2236	mg/L	0.00095	0.4472	mg/L	0.00191	0.43%
Ti 334.903†	107596.9	4.897	mg/L	0.0254	9.795	mg/L	0.0507	0.52%
Tl 190.801†	-15.8	0.00899	mg/L	0.003026	0.01798	mg/L	0.006051	33.65%
V 292.402†	28531.3	0.2763	mg/L	0.00038	0.5525	mg/L	0.00077	0.14%
Zn 206.200†	1510.9	2.224	mg/L	0.0067	4.448	mg/L	0.0134	0.30%

Sequence No.: 44
Sample ID: RG42 D SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 326
Date Collected: 8/6/2010 4:46:30 PM
Data Type: Original

DEL

Nebulizer Parameters: RG42 D SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG42 D SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1977799.3	104.0	%	0.58				0.56%
ScR 361.383	303673.5	103.8	%	1.45				1.39%
Ag 328.068†	-15.4	-0.00008	mg/L	0.000259	-0.00016	mg/L	0.000518	329.65%
Al 308.215†	91364.1	72.07	mg/L	0.854	144.1	mg/L	1.71	1.18%
As 188.979†	-53.1	0.05299	mg/L	0.003479	0.1060	mg/L	0.00696	6.57%
B 249.677†	296.7	0.08544	mg/L	0.002296	0.1709	mg/L	0.00459	2.69%
Ba 233.527†	721.4	0.2044	mg/L	0.00288	0.4088	mg/L	0.00576	1.41%
Be 313.042†	754.8	0.00109	mg/L	0.000044	0.00217	mg/L	0.000087	4.01%
Ca 317.933†	1759129.3	121.2	mg/L	1.80	242.3	mg/L	3.60	1.49%
Cd 228.802†	381.5	0.01808	mg/L	0.000275	0.03616	mg/L	0.000550	1.52%
Co 228.616†	1427.7	0.03721	mg/L	0.000239	0.07441	mg/L	0.000477	0.64%
Cr 267.716†	929.2	0.1791	mg/L	0.00108	0.3582	mg/L	0.00217	0.61%
Cu 324.752†	71773.5	0.2631	mg/L	0.00116	0.5262	mg/L	0.00232	0.44%
Fe 273.955†	134190.9	117.4	mg/L	1.53	234.7	mg/L	3.05	1.30%
K 766.490†	11080.2	7.625	mg/L	0.1045	15.25	mg/L	0.209	1.37%
Mg 279.077†	34688.6	36.89	mg/L	0.452	73.77	mg/L	0.904	1.22%
Mn 257.610†	38760.6	1.230	mg/L	0.0168	2.460	mg/L	0.0335	1.36%
Mo 202.031†	233.5	0.01148	mg/L	0.000546	0.02297	mg/L	0.001091	4.75%
Na 589,592†	429359.0	36.01	mg/L	0.517	72.03	mg/L	1.033	1.43%
Na 330.237†	1104.7	39.45	mg/L	0.295	78.91	mg/L	0.589	0.75%
Ni 231.604†	207.0	0.1216	mg/L	0.00536	0.2431	mg/L	0.01072	4.41%
Pb 220.353†	1602.3	0.2215	mg/L	0.00166	0.4430	mg/L	0.00332	0.75%
Sb 206.836†	153.2	0.06292	mg/L	0.001745	0.1258	mg/L	0.00349	2.77%
Se 196.026†	63.0	0.04136	mg/L	0.002112	0.08271	mg/L	0.004224	5.11%
Si 288.158†	3275.1	2.218	mg/L	0.0384	4.436	mg/L	0.0767	1.73%
Sn 189.927†	46.4	0.02060	mg/L	0.001707	0.04121	mg/L	0.003414	8.29%
Sr 421.552†	328813.7	0.4908	mg/L	0.00674	0.9817	mg/L	0.01349	1.37%
Ti 334.903†	112670.3	5.123	mg/L	0.0725	10.25	mg/L	0.145	1.41%
Tl 190.801†	-4.9	0.01552	mg/L	0.001842	0.03104	mg/L	0.003684	11.87%
V 292.402†	31112.4	0.3018	mg/L	0.00141	0.6035	mg/L	0.00282	0.47%
Zn 206.200†	1894.5	2.789	mg/L	0.0394	5.578	mg/L	0.0789	1.41%

Sequence No.: 45
Sample ID: RG42 E SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 327
Date Collected: 8/6/2010 4:50:42 PM
Data Type: Original

Nebulizer Parameters: RG42 E SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG42 E SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2010438.6	105.7	%	1.20				1.13%
ScR 361.383	310067.5	105.9	%	1.06				1.00%
Ag 328.068†	94.9	0.00050	mg/L	0.000088	0.00100	mg/L	0.000176	17.67%
Al 308.215†	118223.5	93.26	mg/L	1.335	186.5	mg/L	2.67	1.43%
As 188.979†	-92.7	0.03211	mg/L	0.002690	0.06421	mg/L	0.005379	8.38%
B 249.677†	117.4	0.03368	mg/L	0.001898	0.06736	mg/L	0.003795	5.63%
Ba 233.527†	1490.0	0.4326	mg/L	0.00500	0.8653	mg/L	0.00999	1.15%
Be 313.042†	1090.1	0.00164	mg/L	0.000041	0.00328	mg/L	0.000082	2.49%
Ca 317.933†	1317966.9	90.77	mg/L	1.478	181.5	mg/L	2.96	1.63%
Cd 228.802†	143.4	0.00707	mg/L	0.000211	0.01413	mg/L	0.000423	2.99%
Co 228.616†	2373.4	0.06771	mg/L	0.001022	0.1354	mg/L	0.00204	1.51%
Cr 267.716†	1410.3	0.2744	mg/L	0.00321	0.5488	mg/L	0.00642	1.17%
Cu 324.752†	135739.4	0.4943	mg/L	0.00498	0.9887	mg/L	0.00995	1.01%
Fe 273.955†	166080.9	145.2	mg/L	2.08	290.5	mg/L	4.15	1.43%
K 766.490†	8276.1	5.695	mg/L	0.0815	11.39	mg/L	0.163	1.43%
Mg 279.077†	36322.0	38.62	mg/L	0.566	77.23	mg/L	1.132	1.47%
Mn 257.610†	49016.3	1.556	mg/L	0.0251	3.111	mg/L	0.0501	1.61%
Mo 202.031†	361.8	0.01947	mg/L	0.000861	0.03895	mg/L	0.001721	4.42%
Na 589.592†	40971.6	3.437	mg/L	0.0533	6.873	mg/L	0.1065	1.55%
Na 330.237†	72.4	3.865	mg/L	0.2217	7.730	mg/L	0.4434	5.74%
Ni 231.604†	363.5	0.2135	mg/L	0.00340	0.4269	mg/L	0.00680	1.59%
Pb 220.353†	3873.6	0.5312	mg/L	0.00718	1.062	mg/L	0.0144	1.35%
Sb 206.836†	38.4	0.01973	mg/L	0.001565	0.03946	mg/L	0.003130	7.93%
Se 196.026†	54.7	0.03692	mg/L	0.002544	0.07384	mg/L	0.005088	6.89%
Si 288.158†	2707.4	1.833	mg/L	0.0165	3.667	mg/L	0.0330	0.90%
Sn 189.927†	57.7	0.02239	mg/L	0.001158	0.04479	mg/L	0.002316	5.17%
Sr 421.552†	254978.8	0.3806	mg/L	0.00572	0.7612	mg/L	0.01144	1.50%
Ti 334.903†	118935.6	5.410	mg/L	0.0823	10.82	mg/L	0.165	1.52%
Tl 190.801†	-9.1	0.01759	mg/L	0.000965	0.03517	mg/L	0.001929	5.49%
V 292.402†	35126.9	0.3399	mg/L	0.00324	0.6798	mg/L	0.00649	0.95%
Zn 206.200†	1882.1	2.770	mg/L	0.0289	5.540	mg/L	0.0579	1.04%

Sequence No.: 46
Sample ID: RG47 A SWC
Analyst: ALA
Dilution: 5X

Autosampler Location: 328
Date Collected: 8/6/2010 4:54:39 PM
Data Type: Original

Nebulizer Parameters: RG47 A SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.75 L/min

Mean Data: RG47 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1995498.3	104.9	%	1.16				1.11%
ScR 361.383	308704.1	105.5	%	0.64				0.61%
Ag 328.068†	123.2	0.00052	mg/L	0.000213	0.00258	mg/L	0.001067	41.30%
Al 308.215†	53347.3	42.08	mg/L	0.379	210.4	mg/L	1.89	0.90%
As 188.979†	-45.8	0.01655	mg/L	0.001239	0.08274	mg/L	0.006194	7.49%
B 249.677†	94.4	0.02714	mg/L	0.000853	0.1357	mg/L	0.00427	3.14%
Ba 233.527†	2358.5	0.6951	mg/L	0.00470	3.475	mg/L	0.0235	0.68%
Be 313.042†	355.6	0.00050	mg/L	0.000010	0.00249	mg/L	0.000048	1.94%
Ca 317.933†	584021.3	40.22	mg/L	0.307	201.1	mg/L	1.54	0.76%
Cd 228.802†	468.4	0.02220	mg/L	0.000461	0.1110	mg/L	0.00231	2.08%
Co 228.616†	1232.2	0.03453	mg/L	0.000344	0.1726	mg/L	0.00172	1.00%
Cr 267.716†	1138.7	0.2241	mg/L	0.00038	1.120	mg/L	0.0019	0.17%
Cu 324.752†	123127.9	0.4494	mg/L	0.00629	2.247	mg/L	0.0314	1.40%
Fe 273.955†	149152.8	130.4	mg/L	1.09	652.2	mg/L	5.46	0.84%
K 766.490†	3902.9	2.686	mg/L	0.0517	13.43	mg/L	0.258	1.92%
Mg 279.077†	20673.1	21.96	mg/L	0.136	109.8	mg/L	0.68	0.62%
Mn 257.610†	49682.2	1.577	mg/L	0.0108	7.885	mg/L	0.0539	0.68%
Mo 202.031†	264.1	0.01467	mg/L	0.000334	0.07333	mg/L	0.001668	2.28%
Na 589.592†	13976.5	1.172	mg/L	0.0109	5.862	mg/L	0.0544	0.93%
Na 330.237†	13.9	1.170	mg/L	0.1815	5.848	mg/L	0.9076	15.52%
Ni 231.604†	357.5	0.2099	mg/L	0.00075	1.050	mg/L	0.0037	0.35%
Pb 220.353†	863.8	0.1151	mg/L	0.00161	0.5755	mg/L	0.00806	1.40%
Sb 206.836†	30.5	0.01320	mg/L	0.000681	0.06600	mg/L	0.003404	5.16%
Se 196.026†	26.4	0.01808	mg/L	0.003666	0.09040	mg/L	0.018328	20.27%
Si 288.158†	2632.5	1.783	mg/L	0.0042	8.913	mg/L	0.0208	0.23%
Sn 189.927†	34.8	0.01258	mg/L	0.001261	0.06288	mg/L	0.006307	10.03%
Sr 421.552†	84660.0	0.1264	mg/L	0.00104	0.6319	mg/L	0.00522	0.83%
Ti 334.903†	59569.3	2.710	mg/L	0.0216	13.55	mg/L	0.108	0.80%
Tl 190.801†	-11.8	0.01423	mg/L	0.002077	0.07116	mg/L	0.010383	14.59%
V 292.402†	16744.9	0.1559	mg/L	0.00231	0.7795	mg/L	0.01157	1.48%
Zn 206.200†	843.2	1.241	mg/L	0.0104	6.205	mg/L	0.0520	0.84%

Sequence No.: 47
Sample ID: RF47 MBSPK SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 329
Date Collected: 8/6/2010 4:58:35 PM
Data Type: Original

Nebulizer Parameters: RF47 MBSPK SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RF47 MBSPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1984923.2	104.4	%	0.99				0.95%
ScR 361.383	304798.6	104.1	%	0.44				0.42%
Ag 328.068†	92642.3	0.5225	mg/L	0.00286	1.045	mg/L	0.0057	0.55%
Al 308.215†	2730.0	2.144	mg/L	0.0152	4.288	mg/L	0.0304	0.71%
As 188.979†	3055.1	2.072	mg/L	0.0211	4.144	mg/L	0.0423	1.02%
B 249.677†	-8.5	-0.00377	mg/L	0.001173	-0.00753	mg/L	0.002346	31.14%
Ba 233.527†	6711.9	2.013	mg/L	0.0147	4.026	mg/L	0.0294	0.73%
Be 313.042†	284287.1	0.4918	mg/L	0.00266	0.9836	mg/L	0.00533	0.54%
Ca 317.933†	153191.3	10.55	mg/L	0.050	21.10	mg/L	0.101	0.48%
Cd 228.802†	11526.2	0.5336	mg/L	0.00417	1.067	mg/L	0.0083	0.78%
Co 228.616†	15778.4	0.5232	mg/L	0.00497	1.046	mg/L	0.0099	0.95%
Cr 267.716†	2625.5	0.5094	mg/L	0.00264	1.019	mg/L	0.0053	0.52%
Cu 324.752†	143015.4	0.5130	mg/L	0.00335	1.026	mg/L	0.0067	0.65%
Fe 273.955†	2575.4	2.250	mg/L	0.0192	4.499	mg/L	0.0384	0.85%
K 766.490†	15972.0	10.99	mg/L	0.100	21.98	mg/L	0.201	0.91%
Mg 279.077†	9986.2	10.64	mg/L	0.029	21.28	mg/L	0.057	0.27%
Mn 257.610†	15123.5	0.4804	mg/L	0.00109	0.9608	mg/L	0.00219	0.23%
Mo 202.031†	19.5	0.00095	mg/L	0.000107	0.00190	mg/L	0.000215	11.31%
Na 589.592†	114748.2	9.625	mg/L	0.0384	19.25	mg/L	0.077	0.40%
Na 330.237†	311.3	10.65	mg/L	0.213	21.30	mg/L	0.426	2.00%
Ni 231.604†	862.2	0.5063	mg/L	0.00133	1.013	mg/L	0.0027	0.26%
Pb 220.353†	15051.6	2.043	mg/L	0.0216	4.086	mg/L	0.0433	1.06%
Sb 206.836†	6.0	-0.00140	mg/L	0.002093	-0.00280	mg/L	0.004186	149.37%
Se 196.026†	2669.4	2.101	mg/L	0.0224	4.203	mg/L	0.0447	1.06%
Si 288.158†	7.2	0.00674	mg/L	0.003368	0.01349	mg/L	0.006735	49.93%
Sn 189.927†	-10.8	-0.00245	mg/L	0.000114	-0.00490	mg/L	0.000228	4.65%
Sr 421.552†	331782.2	0.4953	mg/L	0.00372	0.9905	mg/L	0.00743	0.75%
Ti 334.903†	66.2	0.00226	mg/L	0.000386	0.00452	mg/L	0.000772	17.08%
Tl 190.801†	3713.8	2.051	mg/L	0.0222	4.102	mg/L	0.0444	1.08%
V 292.402†	51639.7	0.5271	mg/L	0.00474	1.054	mg/L	0.0095	0.90%
Zn 206.200†	337.8	0.4976	mg/L	0.00517	0.9951	mg/L	0.01035	1.04%

Sequence No.: 48
Sample ID: RF42 MBSPK SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 330
Date Collected: 8/6/2010 5:02:46 PM
Data Type: Original

Nebulizer Parameters: RF42 MBSPK SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RF42 MBSPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1956929.7	102.9	%	0.98				0.95%
ScR 361.383	302902.5	103.5	%	1.13				1.09%
Ag 328.068†	93339.4	0.5264	mg/L	0.00310	1.053	mg/L	0.0062	0.59%
Al 308.215†	2692.1	2.114	mg/L	0.0257	4.228	mg/L	0.0513	1.21%
As 188.979†	3064.7	2.078	mg/L	0.0233	4.157	mg/L	0.0466	1.12%
B 249.677†	-11.3	-0.00460	mg/L	0.000168	-0.00919	mg/L	0.000336	3.66%
Ba 233.527†	6751.7	2.025	mg/L	0.0255	4.050	mg/L	0.0510	1.26%
Be 313.042†	286479.6	0.4956	mg/L	0.00326	0.9912	mg/L	0.00652	0.66%
Ca 317.933†	154447.4	10.64	mg/L	0.087	21.27	mg/L	0.173	0.81%
Cd 228.802†	11604.6	0.5372	mg/L	0.00357	1.074	mg/L	0.0071	0.66%
Co 228.616†	15966.4	0.5294	mg/L	0.00188	1.059	mg/L	0.0038	0.36%
Cr 267.716†	2639.2	0.5121	mg/L	0.00371	1.024	mg/L	0.0074	0.73%
Cu 324.752†	139231.5	0.4994	mg/L	0.00374	0.9988	mg/L	0.00748	0.75%
Fe 273.955†	2526.1	2.206	mg/L	0.0277	4.413	mg/L	0.0554	1.25%
K 766.490†	15916.7	10.95	mg/L	0.121	21.91	mg/L	0.243	1.11%
Mg 279.077†	9888.0	10.53	mg/L	0.154	21.07	mg/L	0.307	1.46%
Mn 257.610†	15019.1	0.4771	mg/L	0.00617	0.9541	mg/L	0.01235	1.29%
Mo 202.031†	25.0	0.00127	mg/L	0.000132	0.00254	mg/L	0.000265	10.43%
Na 589.592†	115587.6	9.695	mg/L	0.0817	19.39	mg/L	0.163	0.84%
Na 330.237†	313.2	10.71	mg/L	0.034	21.42	mg/L	0.068	0.32%
Ni 231.604†	863.5	0.5070	mg/L	0.00567	1.014	mg/L	0.0113	1.12%
Pb 220.353†	14798.6	2.009	mg/L	0.0080	4.018	mg/L	0.0161	0.40%
Sb 206.836†	17.6	0.00297	mg/L	0.000527	0.00593	mg/L	0.001053	17.75%
Se 196.026†	2659.0	2.093	mg/L	0.0294	4.186	mg/L	0.0589	1.41%
Si 288.158†	7.2	0.00679	mg/L	0.004702	0.01357	mg/L	0.009403	69.27%
Sn 189.927†	-7.3	-0.00148	mg/L	0.000808	-0.00297	mg/L	0.001616	54.43%
Sr 421.552†	335010.8	0.5001	mg/L	0.00353	1.000	mg/L	0.0071	0.71%
Ti 334.903†	15.5	-0.00005	mg/L	0.000390	-0.00011	mg/L	0.000779	716.29%
Tl 190.801†	3729.0	2.059	mg/L	0.0271	4.119	mg/L	0.0542	1.32%
V 292.402†	52754.4	0.5384	mg/L	0.00401	1.077	mg/L	0.0080	0.74%
Zn 206.200†	338.6	0.4987	mg/L	0.00474	0.9973	mg/L	0.00948	0.95%

Sequence No.: 49
Sample ID: CV 17
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 5:06:57 PM
Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1973028.1	103.8	%	0.01				0.01%
ScR 361.383	299585.7	102.4	%	1.48				1.45%
Ag 328.068†	187271.5	1.056	mg/L	0.0071	1.056	mg/L	0.0071	0.67%
Al 308.215†	2824.0	2.194	mg/L	0.0310	2.194	mg/L	0.0310	1.41%
As 188.979†	3096.5	2.118	mg/L	0.0045	2.118	mg/L	0.0045	0.21%
B 249.677†	3516.9	1.012	mg/L	0.0140	1.012	mg/L	0.0140	1.39%
Ba 233.527†	3481.6	1.044	mg/L	0.0154	1.044	mg/L	0.0154	1.48%
Be 313.042†	585035.3	1.012	mg/L	0.0138	1.012	mg/L	0.0138	1.36%
Ca 317.933†	33207.0	2.287	mg/L	0.0438	2.287	mg/L	0.0438	1.92%
Cd 228.802†	23773.2	1.108	mg/L	0.0075	1.108	mg/L	0.0075	0.68%
Co 228.616†	32835.1	1.088	mg/L	0.0070	1.088	mg/L	0.0070	0.64%
Cr 267.716†	5463.0	1.063	mg/L	0.0128	1.063	mg/L	0.0128	1.20%
Cu 324.752†	298655.8	1.070	mg/L	0.0069	1.070	mg/L	0.0069	0.65%
Fe 273.955†	2537.5	2.213	mg/L	0.0347	2.213	mg/L	0.0347	1.57%
K 766.490†	33085.4	22.77	mg/L	0.290	22.77	mg/L	0.290	1.27%
Mg 279.077†	2094.6	2.237	mg/L	0.0337	2.237	mg/L	0.0337	1.51%
Mn 257.610†	31644.2	1.005	mg/L	0.0170	1.005	mg/L	0.0170	1.69%
Mo 202.031†	18248.2	1.062	mg/L	0.0089	1.062	mg/L	0.0089	0.84%
Na 589.592†	594786.2	49.89	mg/L	0.734	49.89	mg/L	0.734	1.47%
Na 330.237†	1601.4	55.12	mg/L	0.718	55.12	mg/L	0.718	1.30%
Ni 231.604†	1798.7	1.058	mg/L	0.0181	1.058	mg/L	0.0181	1.72%
Pb 220.353†	15078.7	2.048	mg/L	0.0175	2.048	mg/L	0.0175	0.85%
Sb 206.836†	6049.6	2.260	mg/L	0.0047	2.260	mg/L	0.0047	0.21%
Se 196.026†	2704.5	2.130	mg/L	0.0070	2.130	mg/L	0.0070	0.33%
Si 288.158†	3365.9	2.283	mg/L	0.0399	2.283	mg/L	0.0399	1.75%
Sn 189.927†	4104.9	1.119	mg/L	0.0020	1.119	mg/L	0.0020	0.18%
Sr 421.552†	688633.0	1.028	mg/L	0.0127	1.028	mg/L	0.0127	1.23%
Ti 334.903†	23735.7	1.079	mg/L	0.0201	1.079	mg/L	0.0201	1.86%
Tl 190.801†	3782.0	2.090	mg/L	0.0063	2.090	mg/L	0.0063	0.30%
V 292.402†	106463.2	1.087	mg/L	0.0105	1.087	mg/L	0.0105	0.96%
Zn 206.200†	706.5	1.040	mg/L	0.0155	1.040	mg/L	0.0155	1.49%

Sequence No.: 50
Sample ID: CB
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 5:11:10 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1970974.8	103.6	%	0.58				0.56%
ScR 361.383	304668.5	104.1	%	0.65				0.63%
Ag 328.068†	-3.9	-0.00002	mg/L	0.000146	-0.00002	mg/L	0.000146	671.69%
Al 308.215†	5.8	0.00459	mg/L	0.004992	0.00459	mg/L	0.004992	108.78%
As 188.979†	0.2	0.00011	mg/L	0.002684	0.00011	mg/L	0.002684	>999.9%
B 249.677†	-3.4	-0.00097	mg/L	0.000934	-0.00097	mg/L	0.000934	96.36%
Ba 233.527†	5.1	0.00152	mg/L	0.000884	0.00152	mg/L	0.000884	58.00%
Be 313.042†	72.8	0.00013	mg/L	0.000051	0.00013	mg/L	0.000051	40.14%
Ca 317.933†	34.6	0.00238	mg/L	0.000423	0.00238	mg/L	0.000423	17.76%
Cd 228.802†	-5.8	-0.00027	mg/L	0.000153	-0.00027	mg/L	0.000153	56.36%
Co 228.616†	1.0	0.00003	mg/L	0.000388	0.00003	mg/L	0.000388	>999.9%
Cr 267.716†	-3.2	-0.00062	mg/L	0.001126	-0.00062	mg/L	0.001126	181.14%
Cu 324.752†	554.6	0.00199	mg/L	0.000138	0.00199	mg/L	0.000138	6.96%
Fe 273.955†	0.8	0.00069	mg/L	0.001419	0.00069	mg/L	0.001419	204.23%
K 766.490†	17.4	0.01194	mg/L	0.010964	0.01194	mg/L	0.010964	91.79%
Mg 279.077†	-6.8	-0.00729	mg/L	0.001874	-0.00729	mg/L	0.001874	25.70%
Mn 257.610†	3.1	0.00010	mg/L	0.000150	0.00010	mg/L	0.000150	154.15%
Mo 202.031†	-1.7	-0.00010	mg/L	0.000139	-0.00010	mg/L	0.000139	138.39%
Na 589.592†	97.9	0.00821	mg/L	0.001834	0.00821	mg/L	0.001834	22.34%
Na 330.237†	-3.8	-0.1320	mg/L	0.04319	-0.1320	mg/L	0.04319	32.72%
Ni 231.604†	3.9	0.00231	mg/L	0.002109	0.00231	mg/L	0.002109	91.14%
Pb 220.353†	0.7	0.00009	mg/L	0.000376	0.00009	mg/L	0.000376	406.01%
Sb 206.836†	12.1	0.00451	mg/L	0.000679	0.00451	mg/L	0.000679	15.07%
Se 196.026†	4.4	0.00347	mg/L	0.002407	0.00347	mg/L	0.002407	69.45%
Si 288.158†	10.1	0.00685	mg/L	0.002824	0.00685	mg/L	0.002824	41.23%
Sn 189.927†	2.9	0.00078	mg/L	0.000349	0.00078	mg/L	0.000349	44.85%
Sr 421.552†	48.3	0.00007	mg/L	0.000076	0.00007	mg/L	0.000076	105.47%
Ti 334.903†	-12.0	-0.00055	mg/L	0.000700	-0.00055	mg/L	0.000700	128.01%
Tl 190.801†	4.1	0.00226	mg/L	0.001091	0.00226	mg/L	0.001091	48.25%
V 292.402†	-0.1	0.00000	mg/L	0.000131	0.00000	mg/L	0.000131	>999.9%
Zn 206.200†	-0.6	-0.00091	mg/L	0.001005	-0.00091	mg/L	0.001005	110.54%

General Chemistry Raw Data
Analyst Notes and Raw Data

ARI Job ID: RG54

8-2-10

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

DATE: 7/30/2010

ANALYST: KE / CDE / RR 19:10

Instrumentation ***Drying Ovens:*** 12 ***Muffle Furnace:*** N / A ***Analytical Balance:*** 1123230597

Batch drying time

record times as mm/dd/yy hh:mm

7/30/2010 19:10	date/time in oven	KE
7/31/2010 14:30	date/time out	RR
elapsed hrs =	19.3	

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare) **(A)**

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
if ash wt > dry wt, "Chk for Err"
*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

	Cal Weight ID	CV-02	CV-02	CV-02	CV-02				CV-02	CV-02			
	Date & Time	7/30/10 17:46 KE	7/30/10 17:10 KE	7/31/10 14:30 RR									
Cal Wt (g)	10.0000	10.0000	10.0000	10.0000									
record weights to 4 places		*Cal OK!*	*Cal OK!*	*Cal OK!*									

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	**TS (%)**	ASH WT 550C (grams) 1	2		Ash Wt (g)	**TVS (mg/kg)**	**(%)**
Blank			1.1129	1.1129			0.00							
RG51 D3		6.1385	1.1033	5.8990			4.80	**95.2%**						
RG51 E1		6.2249	1.1038	5.9965			4.89	**95.5%**						
RG51 F6		6.2874	1.1480	5.9022			4.75	**92.5%**						
RG51 F6 dup		6.2747	1.0995	5.8516			4.75	**91.8%**						
							RPD =	0.74%				RPD =		NA
RG51 F6 trp		6.1652	1.1451	5.7450			4.60	**91.6%**						
							RSD =	0.50%				RSD =		NA
RG54 E6		6.3388	1.1551	5.7556			4.60	**88.7%**						
RG54 F6		6.9543	1.0916	6.3131			5.22	**89.1%**						
RG54 K6		6.4966	1.1538	5.3935			4.24	**79.4%**						
RG58 E8		6.1694	1.1331	5.4653			4.33	**86.0%**						
RG58 F8		6.2314	1.0902	5.3668			4.28	**83.2%**						
RG58 K8		6.7517	1.1191	6.1708			5.05	**89.7%**						
RG58 L8		6.2854	1.1000	5.6066			4.51	**86.9%**						
RG58 R8		6.4034	1.1513	5.9219			4.77	**90.8%**						
RG58 S8		6.8870	1.1213	6.3245			5.20	**90.2%**						
RG60 E8		6.4681	1.1254	6.0312			4.91	**91.8%**						
RG60 F8		6.7541	1.1268	6.2698			5.14	**91.4%**						
RG43 A1		5.5283	1.1292	4.8556			3.73	**84.7%**						
RG43 A1 dup		5.1486	1.1108	4.2117			3.10	**76.8%**						
							RPD =	9.80%				RPD =		NA

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET DATE: 7/30/2010

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))* ANALYST: KE / CDE / RR 19:10

Instrumentation ***Drying Ovens:*** 12 ***Analytical Balance:*** 1123230597

Muffle Furnace: N / A

Batch drying time			*TS (%) calculated as:*	*TVS (mg/kg dry wt) calculated as:*
record times as mm/dd/yy hh:mm			*Final dry wt (g) = (Dry Wt - Tare Wt)*	*Final ash wt (g) = (min ash wt - tare wt)*
7/30/2010 19:10	date/time in oven	KE	*TS = (Final Dry Wt)/ (grams Sample-Tare)* **(A)**	*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
7/31/2010 14:30	date/time out	RR		*if ash wt > dry wt, "Chk for Err"*
elapsed hrs =	19.3			*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

	Cal Weight ID	CV-02	CV-02	CV-02	CV-02				CV-02	CV-02				
	Date & Time	7/30/10 17:46 KE	7/30/10 17:10 KE	7/31/10 14:30 RR										
Cal Wt (g)	10.0000	10.0000	10.0000	10.0000										
	record weights to 4 places	*Cal OK!*	*Cal OK!*	*Cal OK!*										

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	**TS (%)**	ASH WT 550C (grams) 1	2		Ash Wt (g)	**TVS (mg/kg)**	**(%)**
RG43 A1 trp		5.5697	1.1196	4.7123			3.59	**80.7%**						
							RSD =	4.90%				RSD =	NA	
RG43 B1		6.5779	1.1286	5.4363			4.31	**79.1%**						

RG5-10-13

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

Analyst: (W) / CWA	Date: 7-30-10		Oven ID: 012 (A)		Balance ID:	1123230597	
Time in Oven:	19.10	Time Out of Oven:	14:15		Elapsed Time (> 12 Hrs):		

Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places

TS (%) calculated as:
Final Dry Weight (g) = (Dry Weight – Tare Weight)
TS = (Final Dry Weight) / (Grams Sample – Tare Weight)

TVS (mg/kg dry weight) calculated as:
Final Ash Weight (g) = (Minimum Ash Weight – Tare Weight)
TVS (mg/kg) = [(Dry Weight – Ash Weight) / (Dry Weight) * 1,000,000
If Ash Weight > Dry Weight then "Check for Error"
If Dry Weight – Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000

Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02	[redacted]	CV-02	CV-02	CV-02
Date & Time:	2304612746	7/30/10 17:30	7/31/10 14:30						
Cal Weight (10.0000):	100.0000 (W)	10.0002 CWA	10.0000 PP						

Sample ID	Dish #	Sample	Tare	Dry Weight 104°C			Dry Weight	Ash Weight 550°C		
				1	2	3	grams	1	2	3
BLANK	1	Ø	1.1129	1.1129						
RG57 D5	2	6.1385	1.1033	5.8990						
E5	3	6.2249	1.1038	5.9965						
F6	4	6.2874	1.1480	5.9022						
DF6	5	6.2747	1.0995	5.8516						
↓ QF6	6	6.1652	1.1451	5.7450						
RG54 E6	7 (2)	~~6.4485~~ 6.3388	1.1551	5.7556						
F6	8 (3)	~~6.8595~~ ~~6.3488~~ 6.9543	1.0916	6.3131						
↓ K6	9 (4)	~~6.3488~~ 6.4966	1.1538	5.8935						
RG58 E8	10 (5)	~~6.4966~~ 6.4664	1.1331	5.4653						
F8	11	6.2314	1.0902	5.3668						
K8	12	6.7517	1.1191	6.1708						
L8	13	6.2854	1.1000	5.6066						
R8	14	6.4034	1.1513	5.9219						
↓ S8	15	6.8870	1.1213	6.3245						
RG60 E8	16	6.4681	1.1254	6.0312						
↓ F8	17	6.7541	1.1268	6.2698						
RG43 A1	18	5.5283	1.1292	4.8556						
DA1	19	5.1486	1.1108	4.2117						
↓ QA1	20	5.5697	1.1196	4.7123						
B1	21	6.5779	1.1286	5.4363						

(2) 6.3388
(3) ~~6.3488~~ 6.9543
(4) 6.4966
(5) 6.4664

7-30-10 (W)

W

8-4-10

TOC Solids Prep Log

DATE: 7/30/2010

ANALYST: KE 19:30 (A)

acid purging to remove IC and drying at 70°C for TOC analysis

General notes regarding prep method and samples (identify the acid used)

make no entry to shaded cells, they are calculated

Sample ID		IC Test	Gravimetric Data (grams)			%	*Sample description & notes*
ARI #	Client	+ / -	Tare Wt.	Wet wt.	70°C dry wt	Solids	*(homogeneity and exclusions)*
Blank			13.1088		13.1088	0 mg	
RG51 D3		-	13.2258	18.0648	17.9648	97.93%	
RG51 E3		-	13.1478	18.5727	18.4813	98.32%	
RG51 F3		-	13.2387	18.4485	18.1578	94.42%	
RG51 F3 DUP		-	13.2621	18.6455	18.3746	94.97%	
RG51 F3 TRIP		-	13.1517	18.8582	18.5545	94.68%	
RG54 E6		-	12.8131	18.0133	17.7049	94.07%	
RG54 F6		-	13.0790	18.3047	17.8947	92.15%	
RG54 K6		-	13.2288	18.2421	17.2378	79.97%	
RG58 E8		-	13.1709	18.5807	17.9854	89.00%	
RG58 F8		-	13.1603	18.9466	18.0800	85.02%	
RG58 K8		-	13.2105	18.4043	17.9875	91.98%	
RG58 L8		-	13.0982	18.7507	18.1468	89.32%	
RG58 R8		-	12.9965	18.9213	18.4918	92.75%	
RG58 S8		-	13.0830	18.3251	17.7781	89.57%	
RG60 E8		-	13.1423	18.5458	18.2656	94.81%	
RG60 F8		-	13.1331	18.1632	17.8433	93.64%	
RG43 B1		+++-	13.1604	18.7234	17.8416	84.15%	

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TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC an alysis
Add general notes regarding samples and preparation and identify the acid used

Analyst 7-30-10 (W) /CWC Date 7-30-10 19:32 (A)

Sample Idenification		IC	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID	Test	Tare	Wet	70 °C		
Blank			13.1088	Ø	13.1088		
RG51 D3		-	13.2258	18.0648	17.9648		Sand + Rocks
E1		-	13.1478	18.5727	18.4813		
F6		-	13.2387	18.4485	18.1578		
DP F6		-	13.2621	18.6455	18.3746		
TP F6		-	13.1517	18.8582	18.5545		
RG54 E6		-	12.8131	18.0133	~~17.9854~~	17.7049	
F6		-	13.0790	18.3047	17.8947		
K6		-	13.2288	18.2421	17.2378		very wet
RG58 E8		-	13.1709	18.5807	17.9854		Dump Sand
F8		-	13.1603	18.9466	18.0800		
K8		-	13.2105	18.4043	17.9875		Mud Sand + Rock
L8		-	13.0982	18.7507	18.1468		
R8		-	12.9965	18.9213	18.4918		
S8		-	13.0830	18.3251	17.7781		
RG60 E8		-	13.1423	18.5458	18.2656		
F8		-	13.1331	18.1632	17.8439		
~~RG43 A1~~		~~+++~~	~~13.2487~~	~~18.3062~~			Rerun un Purged (No Acid)
DP A1		~~+++~~	~~13.1292~~	~~18.8437~~			
TP A1		~~+++~~	~~13.1972~~	~~18.678~~			
~~B1~~		~~++~~	~~13.1604~~	~~18.7234~~			
				7-30-10 (W)			

2643
0 6' +++ - 13.1604 - 18.7234 - 17.8416 8-3-10 (W)

w

8-4-10

TOC, Solids Data Analysis

DATE: 8/3/2010

ANALYST: KE 12:48

Instrument: Apollo 2 *Mode:* NPOC *Inlet:* Boat

Spike Std = **2,500** *ppm C*

Calibration Data

Cal Curve ID: **CAL 072210** *Conc:* 5,000 *ppm*

Calibration Curve Standard: **ARI # 00103 - 1** *Curve Date:* **07/22/10**

CalFact: 2.599E+05 *intercept:* -120606 *r2 :* 0.99983

Curve Range (µgC): **8** *to* **100**

Verification Standard Source: ***ERA# 0513 - 10 - 06*** *Conc:* **5,000** *ppm*

dilution : 10 *mL to* 50 **1,000** *ppm*

Standard Reference Material Source: ***NIST 8704*** *Conc:* **33,510** *ppm*

Silica Blanks

Replicate determinations						Mean	RSD	condition

Sample Data

*"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data				Spike	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	(µL Std)	Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	comments
~~ICV~~			-	~~1.00~~		~~40.0~~	~~891~~	~~891~~	~~89.10%~~
ICV				1.00		40.0	970	970	*97.00%*
Blank				1.00		40.0	26.11	26	*Blank OK*
NIST 8704				1.00		1.7	34241	34,241	*102.18%*
RF71 A1				1.00		1.0	39246	39,246	*Range OK!*
RF71 A1 dup				1.00		1.0	32697	32,697	*RPD=18.2%*
~~RF71 A1 trp~~				~~1.00~~		~~1.1~~	~~24168~~	~~24,168~~	~~RSD=23.6%~~
RF71 A1 trp				1.00		1.3	37702	37,702	*RSD=9.4%*
RF71 A1 ms				1.00	20	1.0	89316	89,316	*Range OK!*
Spike =	*0.05*	*mg C to*	*1.0*	*mg samp=*	*50,000*	*ppm*		*100%*	
RG54 E6				1.00		1.7	18906	18,906	*Range OK!*
RG54 G6				1.00		2.9	2635	2,635	*Range OK!*
RG54 K6				1.00		3.8	1456	1,456	*Range OK!*
RG53 A3				1.00		2.0	11437	11,437	*Range OK!*
~~CCV~~			-	~~1.00~~		~~40.0~~	~~1246~~	~~1,246~~	~~124.60%~~
~~CCV~~			-	~~1.00~~		~~40.0~~	~~1117~~	~~1,117~~	~~111.70%~~
CCV				1.00		40.0	1080	1,080	*108.00%*
Blank				1.00		40.0	25.69	26	*Blank OK*
RG53 B3				1.00		2.5	13644	13,644	*Range OK!*
RG53 C3				1.00		1.3	27897	27,897	*Range OK!*
RG53 D3				1.00		2.0	24384	24,384	*Range OK!*
RG53 E3				1.00		1.6	34103	34,103	*Range OK!*
NIST 8704				1.00		1.8	28088	28,088	*83.82%*
CCV				1.00		40.0	1015	1,015	*101.50%*
Blank				1.00		40.0	22.38	22	*Blank OK*

Analytical Resources,Incorporated
Analytical Chemists and Consultants

(1) 8-3-10 (A)

TOC Solids Sample Run Log
Apollo 9000

Page 1 of 1

Set-Up Parameters MODE: NPOC (Boat) **INLET:** Boat Sampler

Standards:	Source	Conc (ppm)
Calibration:	ARI 00103-01	5000
Verification:	ERA 1513-10-06	5000 to 10000 for CVS
SRM:	NBS 8704	33570

12:48

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
ICV			40			
ICV			40			
ICB			40			
NBS 8704			1.7			
RF71 A1			1.0			
↓ dPA1			1.0			
↓ dPA1			1.1			
↓ dPA1			1.3			
↓ MSA			1.0	2500	20	
RG54 E6			1.7			
↓ F6			2.9			
↓ K6			3.8			
RG53 A3			2.0			
CCV			40/40/40			3 injects each
CCB			40			
RG53 B3			2.5			
↓ C3			1.3			
↓ D3			2.0			
↓ E3			1.6			
NBS 8704			1.8			
CCV			40			
CCB			40			
			gr 3-10			
			(A)			

RG54 : 01418

8-3-10 (h)

Detailed Analysis Report Print Date/Time: 2010/08/03 18:16:46

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031317
Timestamp: 2010/08/03 13:29
Sample Type: Cal. Verification

NA 8-3-10 (h)

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	890.5825	35.6233	9115783	16.802	17.800	152

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031335
Timestamp: 2010/08/03 13:39
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	969.6300	38.7852	9946811	17.184	18.183	142

Sample ID: ICB BOAT
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031345
Timestamp: 2010/08/03 13:48
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26.1054	1.0442	27523	17.332	17.230	120

Last Message: Low Sample Detected

Sample ID: NBS 8704
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031356
Timestamp: 2010/08/03 14:01
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34241.0703	58.2098	15052093	17.346	18.346	220

Sample ID: RF71 A1
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031504
Timestamp: 2010/08/03 15:07
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	39246.2695	39.2463	10314914	17.774	18.772	156

Sample ID: RF71 A1 DP
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031515
Timestamp: 2010/08/03 15:19
Sample Type: Sample

8-3-10 (h)

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32696.7598	32.6968	8593537	17.643	18.638	152

Sample ID: RF71 A1 TP
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031532
Timestamp: 2010/08/03 15:35
Sample Type: Sample

NA 8-3-10 (h)

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24167.9805	26.5848	6987153	17.616	18.612	133

Sample ID: RF71 A1 HP 8-3-10 (N)
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031543
Timestamp: 2010/08/03 15:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	37702.4766	49.0132	12881917	17.566	18.562	176

Sample ID: RF71 A1 MS 8-3-10 (N)
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031552
Timestamp: 2010/08/03 15:58
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	89315.9219	89.3159	23474488	17.609	18.609	202

Sample ID: RF54 E6
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031606
Timestamp: 2010/08/03 16:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18906.1992	32.1405	8447348	17.561	18.559	158

Sample ID: RF54 F6
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031628
Timestamp: 2010/08/03 16:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2634.8220	7.6410	2008244	17.554	18.553	123

Sample ID: RF54 K6
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031636
Timestamp: 2010/08/03 16:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1455.9141	5.5325	1454074	17.631	18.631	108

Sample ID: RF53 A3
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
Mode: TOC
Filename: 08031643
Timestamp: 2010/08/03 16:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11436.6523	22.8733	6011684	17.637	18.635	143

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA
NA 8-3-10 (N)
Mode: TOC
Filename: 08031655
Timestamp: 2010/08/03 16:59
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1245.8756	49.8350	12850984	17.872	18.868	177

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

NA 8-3-10W

Mode: TOC
Filename: 08031701
Timestamp: 2010/08/03 17:04
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1116.7240	44.6690	11493212	17.831	18.828	161

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031707
Timestamp: 2010/08/03 17:10
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1079.7482	43.1899	11104485	18.063	19.062	136

Sample ID: ICB BOAT
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031714
Timestamp: 2010/08/03 17:20
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	25.6922	1.0277	23179	17.768	17.643	120

Last Message: Low Sample Detected

Sample ID: RG53 B3
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031729
Timestamp: 2010/08/03 17:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13644.1064	34.1103	8965043	17.951	18.948	157

Sample ID: RG53 C3
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031735
Timestamp: 2010/08/03 17:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27896.8516	36.2659	9531600	18.213	19.207	148

Sample ID: RG53 D3
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031742
Timestamp: 2010/08/03 17:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24383.5840	48.7672	12817247	18.248	19.247	192

Sample ID: RG53 E3
Mode: TOC

Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Filename: 08031749
Timestamp: 2010/08/03 17:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34103.3867	54.5654	14341176	18.446	19.444	207

Sample ID: NBS 8704
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031757
Timestamp: 2010/08/03 18:03
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28087.8809	50.5582	13041049	18.618	19.617	188

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031807
Timestamp: 2010/08/03 18:11
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1014.8460	40.5938	10422167	18.418	19.416	144

Sample ID: ICB BOAT
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031812
Timestamp: 2010/08/03 18:15
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	22.3840	0.8954	-11600	18.385	18.119	120

Last Message: Low Sample Detected

Table of Contents: ARI Job RG78

Client: Floyd/Snider

Project: POS-LLA Lora Lake RI

BL
Signature

August-13-2010
Date

Table of Contents: ARI Job RG78

Client: Floyd/Snider

Project: POS-LLA Lora Lake RI

BC
Signature

August-13-2010
Date

Analytical Resources, Incorporated
Analytical Chemists and Consultants

September 2, 2010

Jessi Massingale
Floyd-Snider Inc.
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Lora Lake RI
ARI Job No: RG78

Dear Ms. Massingale:

Please find enclosed the original Chain-of-Custody (COC) records, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and detail of these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan D. Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile RG78

SD/co

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Documentation

ARI Job ID: RG78

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: RG78	Turn-around Requested: Standard	Page: 1 of 1	
ARI Client Company: Floyd Snider	Phone: 206-292-2078	Date:	Ice Present? Yes
Client Contact: M. McCullough / J. Marsyalo		No. of Coolers: 4	Cooler Temps: 2.1
Client Project Name: Lora Lake RI			
Client Project #: 205-LLA	Samplers: KA, TS, MM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PAHs (8270)	PCP (8041)	NWTPH-Dx	NWTPH-Gx + BETX (8021)	As + Pb (6010)	VOCs - See Proj. list (8260C)	TOC (Plants)	Dioxin (1613)	Archive (Analyze if Above)	Notes/Comments
PSB9A-11-13.5-073010	073	12:34	S	9	✓	✓	✓	✓	✓	✓	✓		✓	
PSB9A-1.5-2-073010		12:30		8	✓	✓	✓	✓	✓	✓		✓		low volume -
PSB9A-2-4-073010		12:20		9	✓	✓	✓	✓	✓	✓	~~MB~~ ✓	✓		ANALYZE TOC
PSB9A-4-6-073010		12:15		8	✓	✓	✓	✓	✓	✓			✓	
PSB9A-0-0.5-073010		12:23		8	✓	✓	✓	✓	✓	✓	~~MB~~	✓		
PSB9-0-0.5-073010		11:31		1									✓	
PSB9-1.5-2-073010		11:34		1									✓	
PSB9-2-4-073010		11:33		1									✓	
PSB9-4-6-073010		1132		1									✓	
PSB9-8.5-9.5-073010		11:40		2	✓	✓	✓		✓				✓	Prioritize PAH + PCP then ~~Metals~~ then ~~BTX~~ Dx then metals

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
PSB9-TB: Analyze for VOCs + TPH-Gx + BETX - TRIP BLANK	(Signature)	(Signature)	(Signature)	(Signature)
	Printed Name: Megan McCullough	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
	Company: FS	Company: ARI	Company:	Company:
	Date & Time: 7/31/10 10:10	Date & Time: 7/31/10 1010	Date & Time:	Date & Time:

FLOYD · SNIDER

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: RG78	Turn-around Requested: Standard	Page: 1 of 1	
ARI Client Company: Floyd Snider	Phone: 206-292-2078	Date: 7/31/10	Ice Present? yes
Client Contact: M. McCullough / J. Massingale		No. of Coolers: 4	Cooler Temps: 3.1
Client Project Name: Lora Lake RI			
Client Project #: 205-LLA	Samplers: MM, KA, TS		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PAHs (8270D SIM)	PCP (8041)	NW TPH-Dx	NW TPH-Gx + BETX (8021)	As + Pb (6010)	VOCs - See Proj. List (8260C)	TOC (Plumb)	Dioxin (1613)	Archive (Dioxin)	Notes/Comments
PSB10-0-0.5-073010	07/30/10	14:05	S	8	✓	✓	✓	✓	✓	✓		✓		
PSB10-1.5-2-073010		14:17		8	✓	✓	✓	✓	✓	✓		✓		
PSB10-2-4-073010		14:15		8	✓	✓	✓	✓	✓	✓		✓		
PSB10-4-6-073010		14:35		8	✓	✓	✓	✓	✓	✓			✓	
PSB10-8.5-10-073010		14:40		23	✓	✓	✓	✓	✓	✓	✓		✓	MS/MSD
PSB10-14-15-073010		14:20		9	✓	✓	✓	✓	✓	✓	✓		✓	
PSB10-20-25-073010		14:38		8	✓	✓	✓	✓	✓	✓				~~limited val. priority~~ MS
PSB10-TB		17:50	W	2				✓		✓				
						MS								

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Meg McCullough	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
	Company: F/S	Company: ARI	Company:	Company:
	Date & Time: 7/31/10 10:10	Date & Time: 7/31/10 1010	Date & Time:	Date & Time:

RG78 : 00001

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Floyd Snider | Project Name: Lora Lake RI

COC No(s): _____ NA | Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____

Assigned ARI Job No: RG78 | Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry): ~~3.1~~ JM ~~3.0~~ JM 2.1 3.1

If cooler temperature is out of compliance fill out form 00070F | Temp Gun ID#: 90877952

Cooler Accepted by: JM Date: 7/31/10 Time: 1015

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	(Bubble Wrap) (Wet Ice) Gel Packs Baggies (Foam Block) Paper Other: _____		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		YES	(NO)
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	(NO)
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	NA	7/23/10	

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 8/2/10 Time: 1125

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
PSB9A-11.5-13.5-073010	PSB9A-11-135-073010		
PSB9A-17-19-073010	PSB9A-11-135-073010		

Additional Notes, Discrepancies, & Resolutions:

PSB9A-TB = pb in 2 of 2
PSB10-TP = pb in 1 of 2

One 8 oz jar for sample PSB10-P.5-10-073010 was broken during log in

PSB10-20-25-073010, as Sample bottle was sent for TOC, that analysis not requested on COC. Sample bottle put on hold

By: JM Date: 8/2/10

Small Air Bubbles ~2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm
		

Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: RG78

Case Narrative

Client: Floyd Snider
Project: Lora Lake RI
ARI Job No.: RG78

Sample receipt

Analytical Resources, Inc. (ARI) accepted ninieteen soil samples on July 31, 2010 under ARI job RG78. The cooler temperatures measured by IR thermometer following ARI SOP were 2.1 and 3.1°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Dioxin/Furan analyses were subcontracted to Frontier Analytical Laboratory in El Dorado Hills, CA. The dioxin data on CD as generated by Frontier is forwarded with this package.

Volatiles by SW8260C

The samples and associated laboratory QC were analyzed within method recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

Several matrix spike and matrix spike duplicate percent recoveries fell outside advisory control limits low for sample **PSB10-8.5-10-073010**. No corrective action is required for matrix QC.

PAHs by SW8270D

The samples were initially screened to determine if a response was present that would require modifications in the extraction process. No modifications were required. The samples and associated laboratory QC were initially extracted and analyzed within the method recommended holding times.

Sample **PSB9A-0-0.5-073010** was re-extracted within method recommended holding times for samples stored frozen, due to failed surrogate recoveries. Both sets of results have been included in this report.

Initial and continuing calibrations were within method requirements. Internal standards were within limits.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limit. The LCS percent recoveries were within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

In response to comments from NELAP and DOD auditors, ARI will now report the 'total' benzofluoranthenes rather than the individual compounds. This total will include the response of the b, k and j isomers.

Pentachlorophenol by SW8041

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS percent recovery was within control limits.

The matrix spike duplicate percent recoveries and RPD were within advisory limits.

Acid/Silica Cleaned NWTPH-Dx

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits. The LCS percent recovery was within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

BETX by SW8021B Mod and NWTPH-Gx

The samples and associated laboratory QC were analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. .

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

Total Arsenic and Lead by SW846 6010B

The samples and associated laboratory QC were digested and analyzed within the method recommended holding time.

The method blank was clean at the reporting limits. The LCS percent recoveries were within control limits.

The SRM results were within advisory ranges.

The matrix spike percent recoveries were within control limits.

The duplicate RPDs were within limits.

General Chemistry (TOC/TS)

The samples and associated laboratory QC were prepared and analyzed within the method recommended holding time.

The method blanks were clean at the reporting limits. The LCS percent recovery was within control limits.

The SRM percent recovery was within limits.

The matrix spike percent recovery and replicate RSDs were within control limit.

Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NR Spiked compound recovery is not reported due to chromatographic interference

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

8/12//2010

SURR SOLUTIONS

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1752-2	ABN	100/150	MEOH	01/22/11
B	1747-2	SIM PNA	15/75	MEOH	10/07/10
C	1705-4	SIM ABN	25/37.5	MEOH	03/08/11
D	1751-1	LOW PCB	0.2	HEXANE	12/29/10
E	1661-2	HERB	62.5	MEOH	10/02/10
F	1683-3	PCP	12.5	ACETONE	12/09/10
G	1707-2	1,4DIOXANE	100	MEOH	03/19/11
H	1723-2	OP-PEST	25	MEOH	04/02/11
I	1747-1	LOW S. PNA	1.5	MEOH	10/07/10
J	1681-2	TBT-PORE	0.125	MECL2	12/01/10
K	1689-1	MED PCB	20	ACETONE	12/29/10
L	1681-1	TBT	2.5	MECL2	12/01/10
M	1682-1	EPH	1500	MECL2	09/17/10
N	1689-3	PCB	2	ACETONE	12/29/10
O	1755-1	TPH	450	MECL2	06/02/11
P	1742-2	HCID	2250	MECL2	05/13/11
Q	1620-2	EDB	1	MEOH	06/22/10
R	1615-1	RESIN ACID	250	ACETONE	06/17/10
S*	1568-5	PBDE	.25	MEOH	01/13/11
T	1674-2	ALKYL PNA	10	MEOH	07/30/10
U	1633-1	CONGENER	2.5	ACETONE	08/11/10
V					
*reverified solution					

LCS SOLUTIONS

8/12/2010

LABL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1754-4	PCB 1660	20	ACETONE	03/30/11
2#		BCOC PEST	10	ACETONE	NA
3	1705-3	PEST	02/04/20	ACETONE	03/08/11
4	1744-3	LOW PEST	0.2/0.4/2	ACETONE	03/08/11
5	1677-1	EPH	1500	MECL2	11/12/10
6	1702-2	PCP	12.5/125	ACETONE	02/18/11
7	1750-1	ABN	100	ACETONE	01/31/11
8	1681-4	TBT	2.5	MECL2	12/01/10
9	1682-2	PORE TBT	.125/.25	MECL2	12/01/10
10	1749-1	ABN ACID	100/200	MECL2	01/28/11
11	1730-2	TPHD	15000	ACETONE	04/26/11
12	1749-2	ABN BASE	200	MEOH	01/29/11
13	1716-2	LOW PCB	2	ACETONE	03/30/11
14	1753-3	LOW ABN ACID	10/20	MEOH	01/28/11
15	1726-3	SIM PNA	15/75	MEOH	10/07/10
16	1707-1	DIOXANE	100	MEOH	11/05/10
17	1644-1	1248 PCB	10	ACETONE	09/10/10
18	1726-4	LOW SIM PNA	1.5	ACETONE	10/07/10
19	1746-3	AK103	7500	ACETONE	12/01/10
20	1682-4	PNA	100	ACETONE	12/04/10
21	1725-1	SKY/BHT	100	MEOH	03/18/11
22	1728-1	HERB	12.5/12500	MEOH	10/20/10
23	1753-4	LW ABN BASE	20	MEOH	01/29/11
24	1696-1	LOW ABN	10	ACETONE	01/13/11
25#		DIPHENYL	100	MEOH	NA
26	1723-3	OP-PEST	25	MEOH	11/20/10
27	1668-3	STEROLS	200	MEOH	10/30/10
28#	1750-2	ADD. PEST	4	ACETONE	09/03/10
29#		DECANES	100	MEOH	NA
30	1620-1	EDB/DBCP	0.2	MEOH	06/22/10

LCS SOLUTIONS

8/12/2010

31	1707-3	TERPINEOL	100	MEOH	03/19/11
32	1619-3	GUAIACOL	50-200	ACETONE	04/30/10
33	1639-3	RETENE	100	MEOH	09/03/10
34	1633-1	CONGENERS	2.5	ACETONE	08/11/10
35	1674-3	ALKYL PNA A	10	MEOH	10/28/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1617-1	FULL RESIN	250	ACETONE	06/17/10
51	1696-3	DDTS	2.5	ACETONE	06/03/10
52	1613-5	1232 PCB	20	ACETONE	06/16/10
53	1703-3	DALAPON	50	MEOH	09/11/10
53	1701-2	PBDE	0.5	ACETONE	02/10/11
54	1753-1	T-CHLORDANE	10	ACETONE	07/21/11
55	1753-2	TOXAPHENE	50	ACETONE	07/21/11
#=PROJECT SPECIFIC SOLUTION					
*=REVERIFIED SOLUTION					

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Analysis of Solid Samples Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C 5 mL Purge Volume [7]

Effective:5/18/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

	Low Level [1]	Low Level ME Limits [3]	Medium Level [2]	Medium Level ME Limits [3]
LCS Spike Recovery [8]				
Dichlorodifluoromethane	53 - 148	37 - 164	25 - 128	**10** - 145
Chloromethane	64 - 125	54 - 135	55 - 121	44 - 132
Vinyl Chloride	63 - 137	51 - 149	66 - 123	57 - 133
Bromomethane	57 - 136	44 - 149	40 - 154	21 - 173
Chloroethane	64 - 131	53 - 142	72 - 128	63 - 137
Trichlorofluoromethane	69 - 132	59 - 143	69 - 135	58 - 146
Acrolein	54 - 137	40 - 151	39 - 135	23 - 151
1,1,2-Trichloro-1,2,2-trifluoroethane	74 - 130	65 - 139	65 - 139	53 - 151
Acetone	60 - 131	48 - 143	55 - 130	43 - 143
1,1-Dichloroethene	75 - 126	67 - 135	73 - 133	63 - 143
Bromoethane	76 - 126	68 - 134	74 - 133	64 - 143
Methyl Iodide	65 - 139	53 - 151	47 - 155	29 - 173
Methylene Chloride	70 - 123	61 - 132	**80 - 120**	75 - 122
Acrylonitrile	67 - 125	57 - 135	62 - 129	51 - 140
Methyl tert-Butyl Ether	70 - 120	62 - 128	69 - 128	59 - 138
Carbon Disulfide	71 - 129	61 - 139	64 - 135	52 - 147
trans-1,2-Dichloroethene	80 - **120**	74 - 126	78 - 125	70 - 133
Vinyl Acetate	60 - 136	47 - 149	66 - 132	55 - 143
1,1-Dichloroethane	**80 - 120**	75 - 124	77 - 124	69 132
2-Butanone	70 - **120**	62 - 127	65 - 126	55 - 136
2,2-Dichloropropane	74 - 123	66 - 131	75 - 127	66 - 136
cis-1,2-Dichloroethene	**80 - 120**	76 - 123	**80** - 125	74 - 132
Chloroform	80 - **120**	74 - 123	**80** - 124	73 - 131
Bromodichloromethane	77 - 121	70 - 128	78 - 130	69 - 139
1,1,1-Trichloroethane	77 - 121	70 - 128	76 - 130	67 - 139
1,1-Dichloropropene	**80 - 120**	77 - 123	77 - 131	68 - 140
Carbon Tetrachloride	77 - 122	70 - 130	74 - 129	65 - 138
1,2-Dichloroethane	76 - **120**	69 - 123	73 - 123	65 - 131
Benzene	**80** - 120	80 - 126	**80 - 120**	75 - 130
Trichloroethene	**80 - 120**	77 - 123	**80** - 125	75 - 132
1,2-Dichloropropane	**80 - 120**	76 - 120	**80** - 122	74 - 129
Bromochloromethane	80 - 120	73 - 127	**80** - 127	73 - 135
Dibromomethane	80 - **120**	74 - 121	**80** - 121	76 - 128
2-Chloroethylvinylether	**10** - 191	**10** - 222	61 - 128	50 - 139

Spike Recovery Control Limits for Analysis of Solid Samples Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C 5 mL Purge Volume [7]

Effective:5/18/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

	Low Level [1]	Low Level ME Limits [3]	Medium Level [2]	Medium Level ME Limits [3]
4-Methyl-2-Pentanone	67 - **120**	59 - 125	80 - 123	73 - 130
cis-1,3-Dichloropropene	74 - **120**	67 - 125	80 - 122	73 - 129
Toluene	**80** - **120**	79 - **120**	**80** - 122	**80** - 127
trans-1,3-Dichloropropene	65 - **120**	57 - 125	**80** - 123	79 - 129
2-Hexanone	65 - 130	54 - 141	58 - 129	46 - 141
1,1,2-Trichloroethane	**80** - **120**	75 - 122	**80** - 120	77 - 126
1,3-Dichloropropane	80 - **120**	74 - 122	**80** - 120	76 - 126
Tetrachloroethene	**80** - 121	79 - 127	**80** - 130	73 - 138
Dibromochloromethane	64 - **120**	55 - 128	77 - 120	70 - 127
Ethylene Dibromide	75 - **120**	68 - 124	**80** - **120**	**80** - 120
Chlorobenzene	**80** - **120**	82 - 120	**80** - 121	80 - 127
Ethylbenzene	**80** - 127	80 - 134	**80** - 126	**80** - 132
1,1,2,2-Tetrachloroethane	74 - 120	66 - 128	79 - **120**	73 - 123
m,p-Xylene	**80** - 125	**80** - 131	**80** - 130	**80** - 137
o-Xylene	78 - **120**	71 - 126	**80** - 124	**80** - 130
Styrene	**80** - 123	78 - 130	**80** - 132	77 - 140
Isopropylbenzene	**80** - 127	84 - 133	**80** - 130	**80** - 137
Bromoform	60 - **120**	50 - 128	68 - 129	58 - 139
1,1,1,2-Tetrachloroethane	69 - 121	60 - 130	**80** - 126	76 - 133
1,2,3-Trichloropropane	72 - 121	64 - 129	77 - **120**	71 - 121
trans-1,4-Dichloro-2-butene	65 - 126	55 - 136	66 - 127	56 - 137
n-Propylbenzene	**80** - 132	**80** - 139	**80** - 132	77 - 140
Bromobenzene	**80** - **120**	78 - 122	**80** - 121	80 - 127
1,3,5-Trimethylbenzene	**80** - 125	**80** - 131	78 - 137	68 - 147
2-Chlorotoluene	**80** - 125	77 - 132	**80** - 123	**80** - 129
4-Chlorotoluene	**80** - 127	77 - 134	**80** - 130	74 - 138
tert-Butylbenzene	87 - 122	**80** - 128	**80** - 133	78 - 141
1,2,4-Trimethylbenzene	**80** - 126	**80** - 132	**80** - 131	79 - 139
sec-Butylbenzene	**80** - 134	80 - 142	**80** - 136	76 - 146
4-Isopropyltoluene	**80** - 131	**80** - 138	**80** - 141	71 - 151
1,3-Dichlorobenzene	**80** - 120	**80** - 126	**80** 126	77 - 133
1,4-Dichlorobenzene	**80** - 120	79 - 126	**80** 121	77 - 127
n-Butylbenzene	**80** - 138	**80** - 146	**80** - 138	77 - 147
1,2-Dichlorobenzene	**80** - **120**	78 - 122	**80** - **120**	**80** - 121
1,2-Dibromo-3-chloropropane	59 - 120	49 - 130	67 - 121	58 - 130
1,2,4-Trichlorobenzene	78 - 130	69 - 139	**80** - 133	72 - 142

Spike Recovery Control Limits for Analysis of Solid Samples Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C 5 mL Purge Volume [7]

Effective:5/18/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

	Low Level [1]	Low Level ME Limits [3]	Medium Level [2]	Medium Level ME Limits [3]
Hexachloro-1,3-butadiene	76 - 129	67 - 138	62 - 148	48 - 162
Naphthalene	66 - **120**	58 - 126	74 - 133	64 - 143
1,2,3-Trichlorobenzene	73 - 123	65 - 131	80 - 126	72 - 134
MB/LCS Surrogate Recovery				
Dibromofluoromethane	**80 - 120**	(4)	**80 - 120**	(4)
d4-1,2-Dichloroethane	79 - 121	(4)	76 - **120**	(4)
d8-Toluene	**80 - 120**	(4)	**80 - 120**	(4)
4-Bromofluorobenzene	**80 - 120**	(4)	**80 - 120**	(4)
d4-1,2-Dichlorobenzene	**80 - 120**	(4)	**80 - 120**	(4)
Sample Surrogate Recovery				
Dibromofluoromethane	30 - 160[6]	(4)	30 - 160[6]	(4)
d4-1,2-Dichloroethane	75 - 152	(4)	69 - **120**	(4)
d8-Toluene	82 - 115	(4)	**80 - 120**	(4)
4-Bromofluorobenzene	64 - **120**	(4)	76 - 128	(4)
d4-1,2-Dichlorobenzene	**80 - 120**	(4)	**80 - 120**	(4)

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.
(2) Control Limits calculated using all data generated 3/1/07 through 11/15/07.
(3) **ME** = A **marginal exceedance** defined in the NELAC Standard[5] as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of four marginal exceedances are acceptable. Five or more marginal exceedances require corrective action.
(4) Marginal Exceedances not allowed for surrogate standards
(5) **2003 NELAC Standard (EPA/600/R-04/003), July 2003**, Chapter 5, pages 251-252.
(6) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses
(7) Highlighted control limits (**bold font**) are adjusted from the calculated values as follows:
a) ARI does not use control limits < 10
b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.
(8) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Analysis of Soil & Sediment Semi-Volatile Organic Compounds (SVOA) EPA SW-846 Method 8270D with Ultrasonic Extraction [1,8]

Effective: 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Extraction / Analytical Method:	8270D	8270D ME[2]	PSEP [3]	PSEP ME[2,3]
Sample Weight / Final Volume:	7.5 g to 0.5 mL	7.5 g to 0.5 mL	50 to 1 mL	50 to 1 mL
LCS Spike Recovery [9]				
Phenol	48 - **100**	41 - **100**	31 - 102	19 - 114
Bis-(2-chloroethyl) ether	32 - **100**	22 - 104	30 - **100**	20 - **100**
2-Chlorophenol	44 - **100**	37 - **100**	36 - **100**	28 - **100**
1,3-Dichlorobenzene	39 - **100**	33 - **100**	32 - **100**	24 - **100**
1,4-Dichlorobenzene	40 - **100**	34 - **100**	33 - **100**	26 - **100**
Benzyl Alcohol	**10** - **100**	**10** - **100**	**10** - **100**	**10** - **100**
1,2-Dichlorobenzene	42 - **100**	36 - **100**	34 - **100**	26 - **100**
2-Methylphenol	44 - **100**	37 - **100**	34 - **100**	24 - 102
2,2'-oxybis(1-chloropropane)	21 - **100**	**10** - 107	29 - **100**	19 - **100**
4-Methylphenol	45 - **100**	37 - 100	39 - **100**	30 - 101
N-Nitroso-di-n-propylamine	36 - **100**	27 - 101	32 - **100**	23 - **100**
Hexachloroethane	35 - **100**	28 - **100**	29 - **100**	21 - **100**
Nitrobenzene	27 - 102	15 - 115	28 - **100**	17 - 105
Isophorone	47 - **100**	39 - 105	46 - **100**	38 - 103
2-Nitrophenol	46 - **100**	40 - **100**	37 - **100**	28 - **100**
2,4-Dimethyphenol	41 - **100**	34 - **100**	19 - **100**	**10** - 103
Bis-(2-chloroethoxy) methane	40 - **100**	32 - **100**	38 - **100**	30 - **100**
Benzoic Acid [4]	**10** - 138	**10** - 159	21 - 123	**10** - 140
2,4-Dichlorophenol	48 - **100**	41 - **100**	39 - **100**	30 - 102
1,2,4-Trichlorobenzene	43 - **100**	35 - **100**	36 - **100**	28 - **100**
Naphthalene	44 - **100**	38 - **100**	37 - **100**	29 - **100**
4-Chloroaniline [4]	16 - **100**	**10** - 113	**10** - **100**	**10** - **100**
2-Chloronaphthalene	48 - **100**	42 - **100**	36 - **100**	27 - 101
Hexachlorobutadiene	40 - **100**	33 - **100**	33 - **100**	24 - **100**
4-Chloro-3-methylphenol	50 - **100**	42 - 104	42 - 102	32 - 112
2-Methylnaphthalene	48 - **100**	42 - **100**	41 - **100**	33 - **100**
Hexachlorocyclopentadiene	20 - 114	**10** - 130	15 - 104	**10** - 119
2,4,6-Trichlorophenol	51 - **100**	44 - 100	42 - **100**	33 - 105
2,4,5-Trichlorophenol	50 - **100**	43 - 103	43 - **100**	34 - 107
2-Nitroaniline	45 - **100**	36 - 106	41 - **100**	32 - 108
Dimethylphthalate	53 - **100**	46 - 103	48 - **100**	40 - 106
Acenaphthylene	50 - **100**	43 - 100	42 - **100**	33 - 104
2,6-Dinitrotoluene	54 - 100	46 - 108	44 - 106	34 - 116
3-Nitroaniline [4]	22 - 117	**10** - 133	15 - 108	**10** - 124
Acenaphthene	48 - **100**	41 - **100**	38 - **100**	29 - 102

Spike Recovery Control Limits for Analysis of Soil & Sediment
Semi-Volatile Organic Compounds (SVOA)
EPA SW-846 Method 8270D with Ultrasonic Extraction [1,8]

Effective: 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Extraction / Analytical Method:	8270D	8270D ME[2]	PSEP [3]	PSEP ME[2,3]
Sample Weight / Final Volume:	7.5 g to 0.5 mL	7.5 g to 0.5 mL	50 to 1 mL	50 to 1 mL
2,4-Dinitrophenol	12 - 147	**10** - 170	20 - 140	**10** - 160
Dibenzofuran	53 - **100**	47 - **100**	45 - **100**	37 - 101
4-Nitrophenol	18 - 107	**10** - 122	21 - 108	**10** - 123
2,4-Dinitrotoluene	57 - 106	49 - 114	48 - 111	38 - 122
Fluorene	54 - **100**	48 - 100	45 - **100**	36 - 106
Diethylphthlalate	52 - 100	44 - 108	48 - 102	39 - 111
4-Chlorophenyl-phenyl ether	54 - **100**	48 - **100**	45 - **100**	36 - 106
4-Nitroaniline	27 - 110	13 - 124	25 - **100**	13 - 110
4,6-Dinitro-2-Methylphenol	21 - 122	**10** - 139	23 - 115	**10** - 130
N-Nitrosodiphenylamine	44 - 145	27 - 162	50 - 128	37 - 141
4-Bromophenyl-phenyl ether	52 - **100**	45 - 101	45 - **100**	36 - 107
Hexachlorobenzene	50 - **100**	42 - 104	44 - 101	35 - 111
Pentachlorophenol	45 - **100**	36 - 108	35 - 105	23 - 117
Phenanthrene	53 - **100**	46 - 101	45 - 100	36 - 109
Anthracene	49 - **100**	41 - 105	43 - **100**	34 - 107
Carbazole	45 - 111	34 - 122	51 - 106	42 - 115
Di-n-butylphthalate	55 - 106	47 - 115	51 - 109	41 - 119
Fluoranthene	54 - 105	46 - 114	52 - 107	43 - 116
Pyrene	48 - 106	38 - 116	41 - 113	29 - 125
Butylbenzylphthalate	46 - 111	35 - 122	40 - 118	27 - 131
Benzo(a)Anthracene	51 - 101	43 - 109	44 - 106	34 - 116
3,3'-Dichlorbenzidine [4]	**10** - 112	**10** - 129	**10** - **100**	**10** - 112
Chrysene	56 - **100**	50 - 102	48 - 102	39 - 111
Bis(2-Ethylhexyl) phthalate	57 - 114	48 - 124	38 - 125	24 - 140
Di-n-octylphthalate	56 - 100	49 - 107	29 - 116	15 - 131
Benzo(b)Fluoranthene	43 - 122	30 - 135	49 - 112	39 - 123
Benzo(k)Fluoranthene	44 - 122	31 - 135	48 - 116	37 - 127
Benzo(a)Pyrene	51 - **100**	43 - 105	41 - **100**	32 - 104
Indeno(1,2,3-cd)Pyrene	38 - 104	27 - 115	29 - 117	14 - 132
Dibenz(a,h)anthracene	41 - 107	30 - 118	34 - 117	20 - 131
Benzo(g,h,i)Perylene	36 - 107	24 - 119	24 - 122	**10** - 138
Aniline [4]	**10** - **100**	**10** - 103	**10** - **100**	**10** - **100**
1,2-Diphenylhydrazine (Azobenzene)	48 - 101	39 - 110	44 - 101	35 - 111
N-Nitrosodimethylamine	31 - **100**	21 - 101	25 - **100**	15 - **100**
1-Methylnaphthalene	48 - **100**	41 - **100**	40 - **100**	31 - 103
Pyridine	**10** - **100**	**10** - **100**	**10** **100**	**10** - **100**

Spike Recovery Control Limits for Analysis of Soil & Sediment Semi-Volatile Organic Compounds (SVOA) EPA SW-846 Method 8270D with Ultrasonic Extraction [1,8]

Effective: 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Extraction / Analytical Method:	8270D	8270D ME[2]	PSEP [3]	PSEP ME[2,3]
Sample Weight / Final Volume:	7.5 g to 0.5 mL	7.5 g to 0.5 mL	50 to 1 mL	50 to 1 mL
MB/LCS Surrogate Recovery				
d4-2-Chlorophenol	43 - **100**	(5)	39 - **100**	(5)
d4-1,2-Dichlorobenzene	34 - **100**	(5)	32 - **100**	(5)
2,4,6-Tribromophenol	47 - 109	(5)	43 - 108	(5)
2-Fluorophenol	14 - 100	(5)	26 - **100**	(5)
d5-Phenol [4]	39 - **100**	**10** - 133	**10** - **100**	**10** - **100**
d5-Nitrobenzene	39 - **100**	(5)	34 - **100**	(5)
2-Fluorobiphenyl	44 - **100**	(5)	39 **100**	(5)
d14-p-Terphenyl	55 - 106	(5)	49 - 112	(5)
Sample Surrogate Recovery				
d4-2-Chlorophenol	33 - **100**	(5)	30 - **100**	(5)
d4-1,2-Dichlorobenzene	30 - **100**	(5)	24 - **100**	(5)
2,4,6-Tribromophenol	28 - 116	(5)	33 - 118	(5)
2-Fluorophenol	**10** - **100**	(5)	21 - **100**	(5)
d5-Phenol [4]	31 - **100**	21 - 101	**10** - **100**	**10** - **100**
d5-Nitrobenzene	32 - **100**	(5)	26 - **100**	(5)
2-Fluorobiphenyl	36 - **100**	(5)	32 - **100**	(5)
d14-p-Terphenyl	35 - 113	(5)	25 - 116	(5)

(1) Control Limits calculated using all data generated 1/1/08 through 12/1/08.
(2) **ME** = A **marginal exceedance** defined in the NELAC Standard [6] as beyond the CL but still within the ME limits. ARI defines ME limits as 4 standard deviations around the mean with upper limit ≥ 100% A maximum of 4 marginal exceedances are acceptable. (≥ 5 marginal exceedances in an analysis require corrective action).
(3). Preparation includes Gel Permeation Chromatography (GPC) clean-up.
(4) These are "**poor performers**" defined in the DoD QSM [7] as compounds that "produce low mean recoveries and high standard deviations, resulting in wide LCS control limits with particularly low lower control limits (sometimes-negative values). ARI does not control batch acceptance based on these compounds since there is a high level of uncertainty in their recovery."
(5) Marginal Exceedances not allowed for surrogate unless it is a "poor performer".
(6) **2003 NELAC Standard (EPA/600/R-04/003), July 2003**, Chapter 5, pages 251-252.
(7) Page 182 of: **Department of Defense Quality Systems Manual for Environmental Laboratories, Version 3 Final, March 2005** Prepared By Environmental Data Quality Workgroup, Department of Navy, Lead Service (Based NELAC Chapter 5 (Quality Systems) NELAC Voted Version – 5 June 2003
(8) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.
(9) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Chlorinated Phenols
EPA Method SW-846-8041[1,2]

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

	ARI's Calculated Control Limits	
Sample Matrix:	Water	Soil / Sediment
Sample Amount / Final Volume:	500 / 50 mL	10 g / 25 mL
LCS Spike Recovery [3]		
Pentachlorophenol	27 - 115	**10** - 162
Method Blank/LCS Surrogate Recovery		
2,4,6-Tribromophenol	40 - 130	50 - 115
Sample Surrogate Recovery		
2,4,6-Tribromophenol	11 - 156	**10** - 146

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.
(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10.
(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

Analytical Resources,Incorporated
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Spike Recovery Control Limits Hydrocarbon Identification (NWTPH-HCID) and Diesel Range Petroleum Hydrocarbons (NWTPH-D & AK-102) [1]

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Method:	NWTPH-HCID [2]	NWTPH-D		AK102 [2]
Sample Matrix:	Water& Soil	Water	Soil	Water & Soil
Preparation:	500 to 1 mL	500 to 1 mL	10g to 1 mL	500 to 1 mL or 10g to 1 mL
LCS Spike Recovery [3]				
Diesel	-- - --	56 - 103	55 - 104	75 - 125
Diesel with Acid & Silica Clean-up	-- - --	43 - 100	54 - 96	(4)
Diesel with Silica Clean-up	-- --	43 - 100	54 - 96	75 - 125
Method Blank/LCS Surrogate Recovery				
o-Terphenyl	-- - --	57 - 120	58 - 121	60 - 120
o-Terphenyl with Acid & Silica Clean-up	-- - --	51 - 120	63 - 115	(4)
o-Terphenyl Silica Clean-up		51 - 120	63 - 115	60 - 120
Sample Surrogate Recovery				
o-Terphenyl	50 - 150	35 - 131	53 - 118	50 - 150
o-Terphenyl with Acid & Silica Clean-up	-- - --	41 - 121	49 - 120	(4)
o-Terphenyl with Silica Clean-up		41 - 121	49 - 120	50 - 150

1. Control Limits calculated using all data generated 1/1/08 through 12/31/08
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
3. Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.
4. Alaska State UST Methods do not allow acid cleanup of sample extracts.

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Spike Recovery Control Limits BTEX – EPA Method 8021 & Gasoline – Methods NWTPH-G and AK101[1,2]

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Sample Matrix:	Aqueous Samples		Soil / Sediment Samples	
Analytical Method:	Method 8021B	NWTPH-G AK-101	Method 8021B	NWTPH-G AK-101
LCS Spike Recovery [3]				
Benzene	73 - **120**		72 - **120**	
Toluene	73 - **120**		72 - **120**	
Ethyl benzene	69 - **120**		71 - **120**	
m,p-Xylenes	72 - **120**		72 - **120**	
o-Xlyene	73 - **120**		72 - **120**	
MTBE	30 - 182		40 - 163	
Gasoline		75 - 124		74 - 124
Method Blank/LCS Surrogate Recovery				
Trifluorotoluene (TFT)	79 - **120**	**80 - 120**	80 - **120**	**80 - 120**
Bromobenzene	79 - **120**	**80 - 120**	77 - **120**	**80 - 120**
Sample Surrogate Recovery				
Trifluorotoluene (TFT)	**80 - 120**	**80** - 120	68 - 124	66 - 123
Bromobenzene	**80 - 120**	**80** - 120	62 - 134	62 - 130

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.
(2) Highlighted control limits (bold font) are adjusted from the calculated values as follows:
a) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.
b) Control limits for analytes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.
(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Summary of Laboratory Control Limits Metals Analyses (All Methods & Sample Matrices)

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Element	Matrix Spike Recovery	LCS Recovery	Replicate RPD
Aluminum	75 - 125	80 - 120	≤ 20%
Antimony	75 - 125	80 - 120	≤ 20%
Arsenic	75 - 125	80 - 120	≤ 20%
Barium	75 - 125	80 - 120	≤ 20%
Beryllium	75 - 125	80 - 120	≤ 20%
Boron	75 - 125	80 - 120	≤ 20%
Cadmium	75 - 125	80 - 120	≤ 20%
Calcium	75 - 125	80 - 120	≤ 20%
Chromium	75 - 125	80 - 120	≤ 20%
Cobalt	75 - 125	80 - 120	≤ 20%
Copper	75 - 125	80 - 120	≤ 20%
Iron	75 - 125	80 - 120	≤ 20%
Lead	75 - 125	80 - 120	≤ 20%
Magnesium	75 - 125	80 - 120	≤ 20%
Manganese	75 - 125	80 - 120	≤ 20%
Mercury	75 - 125	80 - 120	≤ 20%
Nickel	75 - 125	80 - 120	≤ 20%
Potassium	75 - 125	80 - 120	≤ 20%
Selenium	75 - 125	80 - 120	≤ 20%
Silica	75 - 125	80 - 120	≤ 20%
Silver	75 - 125	80 - 120	≤ 20%
Sodium	75 - 125	80 - 120	≤ 20%
Strontium	75 - 125	80 - 120	≤ 20%
Thallium	75 - 125	80 - 120	≤ 20%
Vanadium	75 - 125	80 - 120	≤ 20%
Zinc	75 - 125	80 - 120	≤ 20%

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Conventional Wet Chemistry

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

	ARI's Control Limits	
Sample Matrix:	Water	Soil / Sediment
Matrix Spike Recoveries	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 125	75 - 125
Chloride	75 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
Duplicate RPDs		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

Volatile Analysis
Report and Summary QC Forms

ARI Job ID: RG78

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB9A-11-13.5-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78A
LIMS ID: 10-18433
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 13:19

Sample Amount: 5.47 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 17.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	104%
Bromofluorobenzene	94.6%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB9A-1.5-2-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78B
LIMS ID: 10-18434
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 13:46

Sample Amount: 8.80 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 3.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	104%
Bromofluorobenzene	97.3%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB9A-2-4-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78C
LIMS ID: 10-18435
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 14:12

Sample Amount: 8.40 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 4.9%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	104%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB9A-4-6-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78D
LIMS ID: 10-18436
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 14:39

Sample Amount: 5.62 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	130%
d8-Toluene	104%
Bromofluorobenzene	99.6%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB9A-0-0.5-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78E
LIMS ID: 10-18437
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 15:05

Sample Amount: 6.54 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 3.5%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.8	< 0.8	U
156-59-2	cis-1,2-Dichloroethene	0.8	< 0.8	U
107-06-2	1,2-Dichloroethane	0.8	< 0.8	U
79-01-6	Trichloroethene	0.8	< 0.8	U
127-18-4	Tetrachloroethene	0.8	< 0.8	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	134%
d8-Toluene	102%
Bromofluorobenzene	88.2%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-0-0.5-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78F
LIMS ID: 10-18438
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 15:32

Sample Amount: 9.77 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 6.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.5	< 0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	< 0.5	U
107-06-2	1,2-Dichloroethane	0.5	< 0.5	U
79-01-6	Trichloroethene	0.5	< 0.5	U
127-18-4	Tetrachloroethene	0.5	< 0.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	131%
d8-Toluene	104%
Bromofluorobenzene	94.4%
d4-1,2-Dichlorobenzene	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-1.5-2-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78G
LIMS ID: 10-18439
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 15:58

Sample Amount: 8.07 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 7.3%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	101%
Bromofluorobenzene	90.9%
d4-1,2-Dichlorobenzene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-2-4-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78H
LIMS ID: 10-18440
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 16:24

Sample Amount: 9.03 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 7.7%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	130%
d8-Toluene	104%
Bromofluorobenzene	99.2%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-4-6-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78I
LIMS ID: 10-18441
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 16:51

Sample Amount: 9.47 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 7.2%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.5	< 0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	< 0.5	U
107-06-2	1,2-Dichloroethane	0.5	< 0.5	U
79-01-6	Trichloroethene	0.5	< 0.5	U
127-18-4	Tetrachloroethene	0.5	< 0.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	102%
Bromofluorobenzene	84.3%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-8.5-10-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 17:17

Sample Amount: 8.11 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 11.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	132%
d8-Toluene	103%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-14-15-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78K
LIMS ID: 10-18443
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 17:44

Sample Amount: 9.78 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 3.2%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.5	< 0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	< 0.5	U
107-06-2	1,2-Dichloroethane	0.5	< 0.5	U
79-01-6	Trichloroethene	0.5	< 0.5	U
127-18-4	Tetrachloroethene	0.5	< 0.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	104%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-20-25-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78L
LIMS ID: 10-18444
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 18:10

Sample Amount: 8.06 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 20.2%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	131%
d8-Toluene	106%
Bromofluorobenzene	95.7%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
RG78A	PSB9A-11-13.5-073010	Low	123%	104%	94.6%	100%	0
RG78B	PSB9A-1.5-2-073010	Low	127%	104%	97.3%	104%	0
RG78C	PSB9A-2-4-073010	Low	128%	104%	97.0%	102%	0
RG78D	PSB9A-4-6-073010	Low	130%	104%	99.6%	104%	0
RG78E	PSB9A-0-0.5-073010	Low	134%	102%	88.2%	100%	0
RG78F	PSB10-0-0.5-073010	Low	131%	104%	94.4%	105%	0
RG78G	PSB10-1.5-2-073010	Low	128%	101%	90.9%	106%	0
RG78H	PSB10-2-4-073010	Low	130%	104%	99.2%	104%	0
RG78I	PSB10-4-6-073010	Low	127%	102%	84.3%	104%	0
MB-080610	Method Blank	Low	112%	105%	96.3%	103%	0
LCS-080610	Lab Control	Low	86.4%	102%	96.7%	98.0%	0
LCSD-080610	Lab Control Dup	Low	102%	103%	99.2%	101%	0
RG78J	PSB10-8.5-10-073010	Low	132%	103%	95.8%	105%	0
RG78JMS	PSB10-8.5-10-073010	Low	111%	99.0%	89.6%	98.9%	0
RG78JMSD	PSB10-8.5-10-073010	Low	97.8%	98.1%	89.8%	99.5%	0
RG78K	PSB10-14-15-073010	Low	128%	104%	97.0%	104%	0
RG78L	PSB10-20-25-073010	Low	131%	106%	95.7%	104%	0

	LCS/MB LIMITS		QC LIMITS	
SW8260C	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 10-18433 to 10-18444

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB9-TB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78M
LIMS ID: 10-18445
Matrix: Water
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 18:37

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	102%
Bromofluorobenzene	95.4%
d4-1,2-Dichlorobenzene	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-TB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG78N
LIMS ID: 10-18446
Matrix: Water
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 19:03

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	104%
Bromofluorobenzene	93.2%
d4-1,2-Dichlorobenzene	103%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
RG78M	PSB9-TB	5	114%	102%	95.4%	103%	0
RG78N	PSB10-TB	5	115%	104%	93.2%	103%	0

	LCS/MB LIMITS	QC LIMITS
SW8260C		
(DCE) = d4-1,2-Dichloroethane	80-122	80-125
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 10-18445 to 10-18446

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-8.5-10-073010**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst MS: FINN5/PAB
MSD: FINN5/PAB
Date Analyzed MS: 08/06/10 19:29
MSD: 08/06/10 19:56

Sample Amount MS: 8.61 g-dry-wt
MSD: 8.13 g-dry-wt
Purge Volume MS: 5.0 mL
MSD: 5.0 mL
Moisture: 11.1%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
trans-1,2-Dichloroethene	< 0.6 U	24.9	29.0	85.9%	20.6	30.8	66.9%	18.9%
cis-1,2-Dichloroethene	< 0.6 U	24.5	29.0	84.5%	18.7	30.8	60.7%	26.9%
1,2-Dichloroethane	< 0.6 U	22.0	29.0	75.9%	15.5	30.8	50.3%	34.7%
Trichloroethene	< 0.6 U	19.3	29.0	66.6%	15.5	30.8	50.3%	21.8%
Tetrachloroethene	< 0.6 U	17.8	29.0	61.4%	14.2	30.8	46.1%	22.5%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-8.5-10-073010**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 19:29

Sample Amount: 8.61 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 11.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	---	
156-59-2	cis-1,2-Dichloroethene	0.6	---	
107-06-2	1,2-Dichloroethane	0.6	---	
79-01-6	Trichloroethene	0.6	---	
127-18-4	Tetrachloroethene	0.6	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	99.0%
Bromofluorobenzene	89.6%
d4-1,2-Dichlorobenzene	98.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB10-8.5-10-073010**
Page 1 of 1 **MATRIX SPIKE DUP**

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 19:56

Sample Amount: 8.13 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 11.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	---	
156-59-2	cis-1,2-Dichloroethene	0.6	---	
107-06-2	1,2-Dichloroethane	0.6	---	
79-01-6	Trichloroethene	0.6	---	
127-18-4	Tetrachloroethene	0.6	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.8%
d8-Toluene	98.1%
Bromofluorobenzene	89.8%
d4-1,2-Dichlorobenzene	99.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-080610**
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-080610
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN5/PAB
LCSD: FINN5/PAB
Date Analyzed LCS: 08/06/10 10:59
LCSD: 08/06/10 11:33

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
trans-1,2-Dichloroethene	47.0	50.0	94.0%	50.3	50.0	101%	6.8%
cis-1,2-Dichloroethene	47.7	50.0	95.4%	50.8	50.0	102%	6.3%
1,2-Dichloroethane	47.0	50.0	94.0%	49.6	50.0	99.2%	5.4%
Trichloroethene	45.6	50.0	91.2%	48.2	50.0	96.4%	5.5%
Tetrachloroethene	44.8	50.0	89.6%	45.0	50.0	90.0%	0.4%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	86.4%	102%
d8-Toluene	102%	103%
Bromofluorobenzene	96.7%	99.2%
d4-1,2-Dichlorobenzene	98.0%	101%

4A

VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0806

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RG78

Project: LORA LAKE RI

Lab File ID: MB0806

Lab Sample ID: MB0806

Date Analyzed: 08/06/10

Time Analyzed: 1200

Instrument ID: FINN5

Heated Purge: (Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS0806	LCS0806	LCS0806	1059
02	LCS0806	LCS0806	LCS0806A	1133
03	PSB9A-11-13.	RG78A	RG78A	1319
04	PSB9A-1.5-2-	RG78B	RG78B	1346
05	PSB9A-2-4-07	RG78C	RG78C	1412
06	PSB9A-4-6-07	RG78D	RG78D	1439
07	PSB9A-0-0.5-	RG78E	RG78E	1505
08	PSB10-0-0.5-	RG78F	RG78F	1532
09	PSB10-1.5-2-	RG78G	RG78G	1558
10	PSB10-2-4-07	RG78H	RG78H	1624
11	PSB10-4-6-07	RG78I	RG78I	1651
12	PSB10-8.5-10	RG78J	RG78J	1717
13	PSB10-14-15-	RG78K	RG78K	1744
14	PSB10-20-25-	RG78L	RG78L	1810
15	PSB9-TB	RG78M	RG78M	1837
16	PSB10-TB	RG78N	RG78N	1903
17	PSB10-8.5-10	RG78JMS	RG78JMS	1929
18	PSB10-8.5-10	RG78JMSD	RG78JMSD	1956
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COMMENTS:

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-080610**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-080610
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/06/10 12:00

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	105%
Bromofluorobenzene	96.3%
d4-1,2-Dichlorobenzene	103%

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE RI SDG No.: RG78

Lab File ID: BFB07231 BFB Injection Date: 07/23/10

Instrument ID: FINN5 BFB Injection Time: 1648

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.7
75	30.0 - 66.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 101.0% of mass 95	77.4
175	4.0 - 9.0% of mass 174	5.7 (7.4)1
176	93.0 - 101.0% of mass 174	76.4 (98.8)1
177	5.0 - 9.0% of mass 176	5.5 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	IC0723	2000723	07/23/10	1718
02	VSTD150	IC0723	1500723	07/23/10	1749
03	VSTD100	IC0723	1000723	07/23/10	1816
04	VSTD050	IC0723	0500723	07/23/10	1842
05	VSTD010	IC0723	0100723	07/23/10	1909
06	VSTD005	IC0723	0050723	07/23/10	1935
07	VSTD002	IC0723	0020723	07/23/10	2002
08	VSTD001	IC0723	0010723	07/23/10	2028
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5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE RI SDG No.: RG78

Lab File ID: BFB0806 BFB Injection Date: 08/06/10

Instrument ID: FINN5 BFB Injection Time: 0834

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.5
75	30.0 - 66.0% of mass 95	49.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 101.0% of mass 95	67.0
175	4.0 - 9.0% of mass 174	4.6 (6.9)1
176	93.0 - 101.0% of mass 174	65.0 (97.1)1
177	5.0 - 9.0% of mass 176	4.6 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	CC0806	0500806A	08/06/10	1017
02	LCS0806	LCS0806	LCS0806	08/06/10	1059
03	LCS0806	LCS0806	LCS0806A	08/06/10	1133
04	MB0806	MB0806	MB0806	08/06/10	1200
05	PSB9A-11-13.5-07	RG78A	RG78A	08/06/10	1319
06	PSB9A-1.5-2-0730	RG78B	RG78B	08/06/10	1346
07	PSB9A-2-4-073010	RG78C	RG78C	08/06/10	1412
08	PSB9A-4-6-073010	RG78D	RG78D	08/06/10	1439
09	PSB9A-0-0.5-0730	RG78E	RG78E	08/06/10	1505
10	PSB10-0-0.5-0730	RG78F	RG78F	08/06/10	1532
11	PSB10-1.5-2-0730	RG78G	RG78G	08/06/10	1558
12	PSB10-2-4-073010	RG78H	RG78H	08/06/10	1624
13	PSB10-4-6-073010	RG78I	RG78I	08/06/10	1651
14	PSB10-8.5-10-073	RG78J	RG78J	08/06/10	1717
15	PSB10-14-15-0730	RG78K	RG78K	08/06/10	1744
16	PSB10-20-25-0730	RG78L	RG78L	08/06/10	1810
17	PSB9-TB	RG78M	RG78M	08/06/10	1837
18	PSB10-TB	RG78N	RG78N	08/06/10	1903
19	PSB10-8.5-10-07	RG78JMS	RG78JMS	08/06/10	1929
20	PSB10-8.5-10-07	RG78JMSD	RG78JMSD	08/06/10	1956
21					
22					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF1: 0010723 RF2: 0020723 RF5: 0050723
RF10: 0100723 RF50: 0500723

COMPOUND	RF1	RF2	RF5	RF10	RF50
Chloromethane	2.155	1.962	1.917	2.009	1.652
Vinyl Chloride	1.519	1.452	1.513	1.597	1.363
Bromomethane	0.934	0.851	0.777	0.625	0.810
Chloroethane	1.071	1.093	0.988	0.871	0.876
Trichlorofluoromethane	1.476	1.559	1.505	1.410	1.426
Acrolein	0.205	0.197	0.177	0.164	0.157
112Trichloro122Trifluoroetha	1.274	1.182	1.204	1.123	1.014
Acetone	0.308	0.320	0.314	0.301	0.268
1,1-Dichloroethene	1.036	1.019	1.041	1.032	0.979
Bromoethane	0.707	0.744	0.729	0.753	0.727
Iodomethane	1.011	1.066	1.142	1.140	1.253
Methylene Chloride		1.396	1.190	1.128	0.935
Acrylonitrile	0.196	0.243	0.283	0.285	0.261
Carbon Disulfide	3.372	3.310	3.395	3.282	3.176
Trans-1,2-Dichloroethene	0.815	0.825	0.806	0.895	0.794
Vinyl Acetate	1.378	1.475	1.529	1.560	1.561
1,1-Dichloroethane	1.593	1.577	1.616	1.674	1.534
2-Butanone	0.326	0.330	0.344	0.353	0.328
2,2-Dichloropropane	0.887	0.897	0.933	0.951	0.913
Cis-1,2-Dichloroethene	0.703	0.702	0.718	0.759	0.692
Chloroform	1.249	1.296	1.316	1.320	1.203
Bromochloromethane	0.301	0.323	0.367	0.357	0.335
1,1,1-Trichloroethane	0.977	0.934	0.973	0.985	0.933
1,1-Dichloropropene	0.670	0.690	0.712	0.765	0.673
Carbon Tetrachloride	0.581	0.624	0.604	0.630	0.570
1,2-Dichloroethane	0.571	0.629	0.633	0.678	0.586
Benzene	1.759	1.768	1.800	1.965	1.656
Trichloroethene	0.436	0.500	0.510	0.540	0.468
1,2-Dichloropropane	0.524	0.521	0.548	0.582	0.501
Bromodichloromethane	0.521	0.592	0.582	0.604	0.542
Dibromomethane	0.253	0.259	0.260	0.288	0.249
2-Chloroethyl Vinyl Ether		0.142	0.173	0.190	0.185
4-Methyl-2-Pentanone	0.141	0.137	0.132	0.143	0.133
Cis 1,3-dichloropropene	0.503	0.566	0.600	0.660	0.638
Toluene	1.257	1.104	1.022	1.052	0.921
Trans 1,3-Dichloropropene	0.446	0.472	0.491	0.540	0.521
2-Hexanone	0.489	0.418	0.404	0.438	0.381

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF1: 0010723 RF2: 0020723 RF5: 0050723
RF10: 0100723 RF50: 0500723

COMPOUND	RF1	RF2	RF5	RF10	RF50
1,1,2-Trichloroethane	0.269	0.295	0.323	0.339	0.296
1,3-Dichloropropane	0.683	0.714	0.715	0.756	0.678
Tetrachloroethene	0.617	0.527	0.565	0.567	0.490
Chlorodibromomethane	0.427	0.440	0.465	0.502	0.453
1,2-Dibromoethane	0.301	0.328	0.338	0.349	0.322
Chlorobenzene	1.449	1.256	1.215	1.285	1.093
Ethyl Benzene	2.203	2.176	2.088	2.268	2.021
1,1,1,2-Tetrachloroethane	0.488	0.463	0.438	0.454	0.389
m,p-xylene	0.686	0.701	0.756	0.820	0.768
o-Xylene	0.597	0.672	0.700	0.773	0.750
Styrene	1.013	1.042	1.151	1.321	1.228
Bromoform	0.588	0.562	0.563	0.584	0.521
1,1,2,2-Tetrachloroethane	1.199	1.124	1.036	1.126	0.917
1,2,3-Trichloropropane		0.226	0.221	0.226	0.186
Trans-1,4-Dichloro 2-Butene		0.322	0.326	0.349	0.301
N-Propyl Benzene	4.356	4.362	4.593	5.132	4.292
Bromobenzene	0.977	0.937	0.972	1.058	0.917
Isopropyl Benzene	3.581	3.464	3.670	4.080	3.636
2-Chloro Toluene	3.123	2.806	3.073	3.372	2.810
4-Chloro Toluene	2.626	2.911	2.880	3.298	2.959
T-Butyl Benzene	2.255	2.386	2.573	2.864	2.638
1,3,5-Trimethyl Benzene	2.663	2.667	2.918	3.226	2.998
1,2,4-Trimethylbenzene	2.438	2.545	2.851	3.260	2.948
S-Butyl Benzene	3.651	3.689	3.984	4.454	4.031
4-Isopropyl Toluene	2.226	2.542	2.823	3.180	2.946
1,3-Dichlorobenzene	1.562	1.533	1.674	1.912	1.646
1,4-Dichlorobenzene	1.655	1.573	1.702	1.839	1.597
N-Butyl Benzene	2.810	2.765	3.045	3.430	3.102
1,2-Dichlorobenzene	1.537	1.602	1.638	1.750	1.517
1,2-Dibromo 3-Chloropropane	0.152	0.209	0.190	0.200	0.171
1,2,4-Trichlorobenzene	0.965	1.017	0.971	1.126	0.860
Hexachloro 1,3-Butadiene	0.585	0.688	0.689	0.751	0.589
Naphthalene	1.716	1.756	1.742	2.094	1.618
1,2,3-Trichlorobenzene	0.961	1.020	0.960	1.136	0.809
Dichlorodifluoromethane	0.618	0.692	0.660	0.633	0.675
Methyl tert-Butyl Ether	1.392	1.482	1.616	1.631	1.525

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF1: 0010723 RF2: 0020723 RF5: 0050723
RF10: 0100723 RF50: 0500723

COMPOUND	RF1	RF2	RF5	RF10	RF50
d4-1,2-Dichloroethane	0.718	0.705	0.687	0.646	0.643
d8-Toluene	1.123	1.149	1.122	1.106	1.114
4-Bromofluorobenzene	0.550	0.557	0.558	0.551	0.566
d4-1,2-Dichlorobenzene	0.929	0.920	0.920	0.926	0.925
Dibromofluoromethane	0.649	0.629	0.614	0.586	0.599

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF100: 1000723 RF150: 1500723 RF200: 2000723

COMPOUND	RF100	RF150	RF200
Chloromethane	1.566	1.388	1.306
Vinyl Chloride	1.358	1.171	1.061
Bromomethane	0.769	0.647	0.579
Chloroethane	0.778	0.629	
Trichlorofluoromethane	1.280	1.042	0.967
Acrolein	0.146	0.119	
112Trichloro122Trifluoroetha	0.976	0.818	0.758
Acetone	0.244	0.204	
1,1-Dichloroethene	0.934	0.797	0.739
Bromoethane	0.727	0.633	0.591
Iodomethane	1.256	1.066	1.025
Methylene Chloride	0.929	0.821	
Acrylonitrile	0.258	0.230	0.220
Carbon Disulfide	2.867	2.186	1.913
Trans-1,2-Dichloroethene	0.835	0.766	0.722
Vinyl Acetate	1.554	1.197	1.056
1,1-Dichloroethane	1.561	1.255	1.069
2-Butanone	0.323	0.268	0.247
2,2-Dichloropropane	0.956	0.876	0.855
Cis-1,2-Dichloroethene	0.742	0.687	0.690
Chloroform	1.234	1.073	0.959
Bromochloromethane	0.351	0.332	0.335
1,1,1-Trichloroethane	0.962	0.878	0.863
1,1-Dichloropropene	0.695	0.631	0.596
Carbon Tetrachloride	0.592	0.551	0.570
1,2-Dichloroethane	0.598	0.544	0.529
Benzene	1.455	1.088	
Trichloroethene	0.485	0.448	0.461
1,2-Dichloropropane	0.518	0.470	0.475
Bromodichloromethane	0.555	0.516	0.514
Dibromomethane	0.260	0.237	0.249
2-Chloroethyl Vinyl Ether	0.194	0.187	0.198
4-Methyl-2-Pentanone	0.132	0.122	0.117
Cis 1,3-dichloropropene	0.676	0.620	0.570
Toluene	0.946	0.783	0.707
Trans 1,3-Dichloropropene	0.559	0.524	0.508
2-Hexanone	0.322		

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF100: 1000723 RF150: 1500723 RF200: 2000723

COMPOUND	RF100	RF150	RF200
1,1,2-Trichloroethane	0.308	0.291	0.306
1,3-Dichloropropane	0.724	0.676	0.684
Tetrachloroethene	0.546	0.543	0.590
Chlorodibromomethane	0.493	0.479	0.528
1,2-Dibromoethane	0.328	0.309	0.324
Chlorobenzene	1.173	0.982	0.930
Ethyl Benzene	1.784	1.342	
1,1,1,2-Tetrachloroethane	0.428	0.439	0.492
m,p-xylene	0.804	0.647	0.616
o-Xylene	0.840	0.828	0.865
Styrene	1.342	1.127	1.094
Bromoform	0.539	0.500	0.474
1,1,2,2-Tetrachloroethane	0.890	0.780	0.707
1,2,3-Trichloropropane	0.183	0.160	0.146
Trans-1,4-Dichloro 2-Butene	0.299	0.258	0.237
N-Propyl Benzene	3.334		
Bromobenzene	0.956	0.872	0.817
Isopropyl Benzene	3.053	2.076	
2-Chloro Toluene	2.821	1.980	
4-Chloro Toluene	2.626	1.857	
T-Butyl Benzene	2.560	1.958	1.463
1,3,5-Trimethyl Benzene	2.733	1.921	
1,2,4-Trimethylbenzene	2.800	1.985	
S-Butyl Benzene	3.263		
4-Isopropyl Toluene	2.747	2.006	
1,3-Dichlorobenzene	1.804	1.479	1.214
1,4-Dichlorobenzene	1.775	1.484	1.208
N-Butyl Benzene	2.846	1.945	
1,2-Dichlorobenzene	1.586	1.401	1.156
1,2-Dibromo 3-Chloropropane	0.158	0.137	0.128
1,2,4-Trichlorobenzene	0.913	0.825	0.739
Hexachloro 1,3-Butadiene	0.597	0.554	0.542
Naphthalene	1.558	1.287	
1,2,3-Trichlorobenzene	0.822	0.736	0.646
Dichlorodifluoromethane	0.674	0.632	0.601
Methyl tert-Butyl Ether	1.542	1.313	1.151

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF100: 1000723 RF150: 1500723 RF200: 2000723

COMPOUND	RF100	RF150	RF200
d4-1,2-Dichloroethane	0.641	0.617	0.560
d8-Toluene	1.080	1.048	1.047
4-Bromofluorobenzene	0.592	0.613	0.695
d4-1,2-Dichlorobenzene	0.902	0.880	0.873
Dibromofluoromethane	0.586	0.572	0.533

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Calibration Date: 07/23/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
Chloromethane	AVRG	1.744	17.8
Vinyl Chloride	AVRG	1.379	13.3
Bromomethane	AVRG	0.749	16.3
Chloroethane	AVRG	0.901	18.3
Trichlorofluoromethane	AVRG	1.333	16.4
Acrolein	AVRG	0.166	17.8
112Trichloro122Trifluoroetha	AVRG	1.044	17.8
Acetone	AVRG	0.280	15.4
1,1-Dichloroethene	AVRG	0.947	12.4
Bromoethane	AVRG	0.701	8.2
Iodomethane	AVRG	1.120	8.5
Methylene Chloride	AVRG	1.066	19.9
Acrylonitrile	AVRG	0.247	12.5
Carbon Disulfide	AVRG	2.938	19.6
Trans-1,2-Dichloroethene	AVRG	0.807	6.3
Vinyl Acetate	AVRG	1.414	13.5
1,1-Dichloroethane	AVRG	1.485	14.1
2-Butanone	AVRG	0.315	11.8
2,2-Dichloropropane	AVRG	0.909	4.0
Cis-1,2-Dichloroethene	AVRG	0.711	3.7
Chloroform	AVRG	1.206	10.6
Bromochloromethane	AVRG	0.338	6.1
1,1,1-Trichloroethane	AVRG	0.938	4.9
1,1-Dichloropropene	AVRG	0.679	7.5
Carbon Tetrachloride	AVRG	0.590	4.7
1,2-Dichloroethane	AVRG	0.596	8.3
Benzene	AVRG	1.642	17.6
Trichloroethene	AVRG	0.481	7.2
1,2-Dichloropropane	AVRG	0.518	7.1
Bromodichloromethane	AVRG	0.553	6.5
Dibromomethane	AVRG	0.257	5.7
2-Chloroethyl Vinyl Ether	AVRG	0.181	10.5
4-Methyl-2-Pentanone	AVRG	0.132	6.7
Cis 1,3-dichloropropene	AVRG	0.604	9.4
Toluene	AVRG	0.974	18.0
Trans 1,3-Dichloropropene	AVRG	0.508	7.2
2-Hexanone	AVRG	0.409	13.6

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Calibration Date: 07/23/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
1,1,2-Trichloroethane	AVRG	0.303	7.0
1,3-Dichloropropane	AVRG	0.704	4.0
Tetrachloroethene	AVRG	0.556	7.0
Chlorodibromomethane	AVRG	0.473	7.2
1,2-Dibromoethane	AVRG	0.325	4.7
Chlorobenzene	AVRG	1.173	14.4
Ethyl Benzene	AVRG	1.983	16.3
1,1,1,2-Tetrachloroethane	AVRG	0.449	7.4
m,p-xylene	AVRG	0.725	10.2
o-Xylene	AVRG	0.753	12.3
Styrene	AVRG	1.165	10.5
Bromoform	AVRG	0.541	7.5
1,1,2,2-Tetrachloroethane	AVRG	0.972	18.2
1,2,3-Trichloropropane	AVRG	0.193	17.0
Trans-1,4-Dichloro 2-Butene	AVRG	0.299	13.1
N-Propyl Benzene	AVRG	4.345	13.4
Bromobenzene	AVRG	0.938	7.7
Isopropyl Benzene	AVRG	3.366	19.2
2-Chloro Toluene	AVRG	2.855	15.4
4-Chloro Toluene	AVRG	2.736	16.4
T-Butyl Benzene	AVRG	2.337	19.1
1,3,5-Trimethyl Benzene	AVRG	2.732	15.0
1,2,4-Trimethylbenzene	AVRG	2.690	15.2
S-Butyl Benzene	AVRG	3.845	10.6
4-Isopropyl Toluene	AVRG	2.638	15.6
1,3-Dichlorobenzene	AVRG	1.603	13.2
1,4-Dichlorobenzene	AVRG	1.604	12.2
N-Butyl Benzene	AVRG	2.849	16.1
1,2-Dichlorobenzene	AVRG	1.523	11.8
1,2-Dibromo 3-Chloropropane	AVRG	0.168	17.6
1,2,4-Trichlorobenzene	AVRG	0.927	13.0
Hexachloro 1,3-Butadiene	AVRG	0.624	12.0
Naphthalene	AVRG	1.682	14.5
1,2,3-Trichlorobenzene	AVRG	0.886	18.2
Dichlorodifluoromethane	AVRG	0.648	4.8
Methyl tert-Butyl Ether	AVRG	1.456	11.2

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Calibration Date: 07/23/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
d4-1,2-Dichloroethane	AVRG	0.652	7.8
d8-Toluene	AVRG	1.099	3.4
4-Bromofluorobenzene	AVRG	0.585	8.5
d4-1,2-Dichlorobenzene	AVRG	0.909	2.4
Dibromofluoromethane	AVRG	0.596	6.0

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Cont. Calib. Date: 08/06/10

Init. Calib. Date: 07/23/10 Cont. Calib. Time: 1017

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
Chloromethane	1.744	1.523	0.100	AVRG	-12.7	
Vinyl Chloride	1.379	1.390	0.010	AVRG	0.8	
Bromomethane	0.749	1.017	0.010	AVRG	35.8	<-
Chloroethane	0.901	0.909	0.010	AVRG	0.9	
Trichlorofluoromethane	1.333	1.353	0.010	AVRG	1.5	
Acrolein	0.166	0.184	0.010	AVRG	10.8	
112Trichloro122Trifluoroetha	1.044	1.088	0.010	AVRG	4.2	
Acetone	0.280	0.304	0.010	AVRG	8.6	
1,1-Dichloroethene	0.947	0.979	0.010	AVRG	3.4	
Bromoethane	0.701	0.748	0.010	AVRG	6.7	
Iodomethane	1.120	1.382	0.010	AVRG	23.4	<-
Methylene Chloride	1.066	0.969	0.010	AVRG	-9.1	
Acrylonitrile	0.247	0.314	0.010	AVRG	27.1	<-
Carbon Disulfide	2.938	3.303	0.010	AVRG	12.4	
Trans-1,2-Dichloroethene	0.807	0.846	0.010	AVRG	4.8	
Vinyl Acetate	1.414	1.683	0.010	AVRG	19.0	
1,1-Dichloroethane	1.485	1.558	0.100	AVRG	4.9	
2-Butanone	0.315	0.374	0.010	AVRG	18.7	
2,2-Dichloropropane	0.908	0.827	0.010	AVRG	-8.9	
Cis-1,2-Dichloroethene	0.712	0.750	0.010	AVRG	5.3	
Chloroform	1.206	1.214	0.010	AVRG	0.7	
Bromochloromethane	0.338	0.358	0.010	AVRG	5.9	
1,1,1-Trichloroethane	0.938	0.862	0.010	AVRG	-8.1	
1,1-Dichloropropene	0.679	0.687	0.010	AVRG	1.2	
Carbon Tetrachloride	0.590	0.544	0.010	AVRG	-7.8	
1,2-Dichloroethane	0.596	0.594	0.010	AVRG	-0.3	
Benzene	1.642	1.721	0.010	AVRG	4.8	
Trichloroethene	0.481	0.474	0.010	AVRG	-1.4	
1,2-Dichloropropane	0.517	0.505	0.010	AVRG	-2.3	
Bromodichloromethane	0.553	0.538	0.010	AVRG	-2.7	
Dibromomethane	0.257	0.264	0.010	AVRG	2.7	
2-Chloroethyl Vinyl Ether	0.181	0.213	0.010	AVRG	17.7	
4-Methyl-2-Pentanone	0.132	0.143	0.010	AVRG	8.3	
Cis 1,3-dichloropropene	0.604	0.635	0.010	AVRG	5.1	
Toluene	0.974	0.949	0.010	AVRG	-2.6	
Trans 1,3-Dichloropropene	0.508	0.509	0.010	AVRG	0.2	
2-Hexanone	0.409	0.411	0.010	AVRG	0.5	

<- Exceeds QC limit of 20% D
* RF less than minimum RF

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Cont. Calib. Date: 08/06/10

Init. Calib. Date: 07/23/10 Cont. Calib. Time: 1017

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
1,1,2-Trichloroethane	0.303	0.310	0.010	AVRG	2.3	
1,3-Dichloropropane	0.704	0.718	0.010	AVRG	2.0	
Tetrachloroethene	0.556	0.510	0.010	AVRG	-8.3	
Chlorodibromomethane	0.473	0.456	0.010	AVRG	-3.6	
1,2-Dibromoethane	0.325	0.333	0.010	AVRG	2.5	
Chlorobenzene	1.173	1.145	0.300	AVRG	-2.4	
Ethyl Benzene	1.983	2.082	0.010	AVRG	5.0	
1,1,1,2-Tetrachloroethane	0.449	0.384	0.010	AVRG	-14.5	
m,p-xylene	0.725	0.812	0.010	AVRG	12.0	
o-Xylene	0.753	0.770	0.010	AVRG	2.2	
Styrene	1.165	1.299	0.010	AVRG	11.5	
Bromoform	0.541	0.504	0.100	AVRG	-6.8	
1,1,2,2-Tetrachloroethane	0.972	0.927	0.300	AVRG	-4.6	
1,2,3-Trichloropropane	0.192	0.187	0.010	AVRG	-2.6	
Trans-1,4-Dichloro 2-Butene	0.299	0.349	0.010	AVRG	16.7	
N-Propyl Benzene	4.345	4.461	0.010	AVRG	2.7	
Bromobenzene	0.938	0.888	0.010	AVRG	-5.3	
Isopropyl Benzene	3.366	3.542	0.010	AVRG	5.2	
2-Chloro Toluene	2.855	2.864	0.010	AVRG	0.3	
4-Chloro Toluene	2.737	2.977	0.010	AVRG	8.8	
T-Butyl Benzene	2.337	2.600	0.010	AVRG	11.2	
1,3,5-Trimethyl Benzene	2.732	3.051	0.010	AVRG	11.7	
1,2,4-Trimethylbenzene	2.690	3.062	0.010	AVRG	13.8	
S-Butyl Benzene	3.845	4.132	0.010	AVRG	7.5	
4-Isopropyl Toluene	2.638	3.146	0.010	AVRG	19.2	
1,3-Dichlorobenzene	1.603	1.750	0.010	AVRG	9.2	
1,4-Dichlorobenzene	1.604	1.756	0.010	AVRG	9.5	
N-Butyl Benzene	2.849	3.495	0.010	AVRG	22.7	<-
1,2-Dichlorobenzene	1.523	1.582	0.010	AVRG	3.9	
1,2-Dibromo 3-Chloropropane	0.168	0.163	0.010	AVRG	-3.0	
1,2,4-Trichlorobenzene	0.927	1.042	0.010	AVRG	12.4	
Hexachloro 1,3-Butadiene	0.624	0.642	0.010	AVRG	2.9	
Naphthalene	1.682	1.774	0.010	AVRG	5.5	
1,2,3-Trichlorobenzene	0.886	0.903	0.010	AVRG	1.9	
Dichlorodifluoromethane	0.648	0.632	0.010	AVRG	-2.5	
Methyl tert-Butyl Ether	1.456	1.386	0.010	AVRG	-4.8	

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: FINN5 Cont. Calib. Date: 08/06/10

Init. Calib. Date: 07/23/10 Cont. Calib. Time: 1017

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
d4-1,2-Dichloroethane	0.652	0.623	0.010	AVRG	-4.4
d8-Toluene	1.099	1.162	0.010	AVRG	5.7
4-Bromofluorobenzene	0.585	0.593	0.010	AVRG	1.4
d4-1,2-Dichlorobenzene	0.909	0.908	0.010	AVRG	-0.1
Dibromofluoromethane	0.596	0.582	0.010	AVRG	-2.3

<- Exceeds QC limit of 20% D

* RF less than minimum RF

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Ical Midpoint ID: 0500723 Ical Date: 07/23/10

Instrument ID: FINN5 Project Run Date: 08/06/10

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CLB) AREA #	RT #
	ICAL MIDPT	131115	6.62	191559	7.63	161199	10.78
	UPPER LIMIT	262230	7.12	383118	8.13	322398	11.28
	LOWER LIMIT	65558	6.12	95780	7.13	80600	10.28
	Sample ID						
01	LCS0806	123049	6.61	172433	7.63	138084	10.77
02	LCS0806	122424	6.62	177742	7.63	147651	10.78
03	MB0806	109261	6.63	159957	7.65	140974	10.79
04	PSB9A-11-13.	115472	6.63	175492	7.65	149839	10.79
05	PSB9A-1.5-2-	117385	6.61	177385	7.63	155396	10.77
06	PSB9A-2-4-07	115329	6.61	176802	7.63	155984	10.77
07	PSB9A-4-6-07	116318	6.61	177830	7.62	155205	10.77
08	PSB9A-0-0.5-	104226	6.62	155789	7.63	128641	10.77
09	PSB10-0-0.5-	114676	6.63	176687	7.65	153763	10.79
10	PSB10-1.5-2-	120761	6.63	182802	7.65	152036	10.79
11	PSB10-2-4-07	116521	6.63	179466	7.64	155258	10.79
12	PSB10-4-6-07	122146	6.62	182739	7.64	145508	10.78
13	PSB10-8.5-10	122137	6.63	187798	7.65	160496	10.79
14	PSB10-14-15-	123943	6.62	191508	7.64	166710	10.78
15	PSB10-20-25-	123990	6.62	189528	7.63	165443	10.78
16	PSB9-TB	117410	6.62	182297	7.63	152791	10.78
17	PSB10-TB	122217	6.61	184540	7.63	153922	10.77
18	PSB10-8.5-10	142533	6.63	216425	7.65	167188	10.79
19	PSB10-8.5-10	166969	6.62	235843	7.64	179753	10.78
20							
21							
22							

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Ical Midpoint ID: 0500723 Ical Date: 07/23/10

Instrument ID: FINN5 Project Run Date: 08/06/10

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	88279	13.47				
	UPPER LIMIT	176558	13.97				
	LOWER LIMIT	44140	12.97				
	Sample ID						
01	LCS0806	77255	13.46				
02	LCS0806	81973	13.47				
03	MB0806	69910	13.48				
04	PSB9A-11-13.	75834	13.48				
05	PSB9A-1.5-2-	77087	13.46				
06	PSB9A-2-4-07	79509	13.46				
07	PSB9A-4-6-07	82476	13.46				
08	PSB9A-0-0.5-	50970	13.46				
09	PSB10-0-0.5-	74102	13.48				
10	PSB10-1.5-2-	65813	13.48				
11	PSB10-2-4-07	79056	13.48				
12	PSB10-4-6-07	53410	13.47				
13	PSB10-8.5-10	78355	13.48				
14	PSB10-14-15-	84603	13.47				
15	PSB10-20-25-	80774	13.46				
16	PSB9-TB	74258	13.46				
17	PSB10-TB	71590	13.46				
18	PSB10-8.5-10	76577	13.48				
19	PSB10-8.5-10	80353	13.47				
20							
21							
22							

IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

Semivolatile PAH Analysis
Report and Summary QC Forms

ARI Job ID: RG78

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: PSB9A-11-13.5-073010
SAMPLE

Lab Sample ID: RG78A
LIMS ID: 10-18433
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 12:22
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	< 19 U
218-01-9	Chrysene	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	19	< 19 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	82.0%
2-Fluorobiphenyl	60.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB9A-1.5-2-073010
SAMPLE

Lab Sample ID: RG78B
LIMS ID: 10-18434
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 12:55
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 3.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	< 19 U
218-01-9	Chrysene	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	19	< 19 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	65.2%
2-Fluorobiphenyl	48.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: PSB9A-2-4-073010
SAMPLE

Lab Sample ID: RG78C
LIMS ID: 10-18435
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 13:28
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 4.9%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	< 19 U
218-01-9	Chrysene	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	19	< 19 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	49.2%
2-Fluorobiphenyl	38.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB9A-4-6-073010
SAMPLE

Lab Sample ID: RG78D
LIMS ID: 10-18436
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 14:01
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 8.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	< 19 U
218-01-9	Chrysene	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	19	< 19 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	60.8%
2-Fluorobiphenyl	43.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: PSB9A-0-0.5-073010
SAMPLE

Lab Sample ID: RG78E
LIMS ID: 10-18437
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 14:35
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 3.5%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
TOTBFA	**Total Benzofluoranthenes**	**20**	**13 J**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	5.0%
2-Fluorobiphenyl	44.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB9A-0-0.5-073010
REEXTRACT

Lab Sample ID: RG78E
LIMS ID: 10-18437
Matrix: Soil
Data Release Authorized:
Reported: 08/26/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/24/10
Date Analyzed: 08/25/10 12:49
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 14.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 3.5%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	34	< 34 U
218-01-9	Chrysene	34	< 34 U
50-32-8	Benzo(a)pyrene	34	< 34 U
193-39-5	Indeno(1,2,3-cd)pyrene	34	< 34 U
53-70-3	Dibenz(a,h)anthracene	34	< 34 U
TOTBFA	Total Benzofluoranthenes	34	< 34 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	49.2%
2-Fluorobiphenyl	53.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB10-0-0.5-073010
SAMPLE

Lab Sample ID: RG78F
LIMS ID: 10-18438
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 15:13
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 6.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	95	< 95 U
218-01-9	Chrysene	95	< 95 U
50-32-8	Benzo(a)pyrene	95	< 95 U
193-39-5	Indeno(1,2,3-cd)pyrene	95	< 95 U
53-70-3	Dibenz(a,h)anthracene	95	< 95 U
TOTBFA	**Total Benzofluoranthenes**	**95**	**50 J**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	40.4%
2-Fluorobiphenyl	68.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB10-1.5-2-073010
SAMPLE

Lab Sample ID: RG78G
LIMS ID: 10-18439
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 15:41
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	42.0%
2-Fluorobiphenyl	56.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB10-2-4-073010
SAMPLE

Lab Sample ID: RG78H
LIMS ID: 10-18440
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 16:14
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
56-55-3	**Benzo(a)anthracene**	**19**	**16 J**
218-01-9	**Chrysene**	**19**	**17 J**
50-32-8	**Benzo(a)pyrene**	**19**	**10 J**
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	**Total Benzofluoranthenes**	**19**	**22**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	52.0%
2-Fluorobiphenyl	57.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: PSB10-4-6-073010
SAMPLE

Lab Sample ID: RG78I
LIMS ID: 10-18441
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 16:47
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.2%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	**Chrysene**	**20**	**16 J**
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
TOTBFA	**Total Benzofluoranthenes**	**20**	**12 J**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	58.0%
2-Fluorobiphenyl	66.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB10-8.5-10-073010
SAMPLE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 17:20
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	< 19 U
218-01-9	Chrysene	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	19	< 19 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	62.0%
2-Fluorobiphenyl	59.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB10-20-25-073010
SAMPLE

Lab Sample ID: RG78L
LIMS ID: 10-18444
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 20:38
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 20.2%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	< 19 U
218-01-9	Chrysene	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	19	< 19 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	73.2%
2-Fluorobiphenyl	46.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB9-8.5-9.5-073010
SAMPLE

Lab Sample ID: RG78S
LIMS ID: 10-18451
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 21:11
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 8.9%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	< 19 U
218-01-9	Chrysene	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	19	< 19 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	60.8%
2-Fluorobiphenyl	47.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB10-14-15-073010
SAMPLE

Lab Sample ID: RG78K
LIMS ID: 10-18443
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 15:45
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 3.2%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	77.6%
2-Fluorobiphenyl	60.8%

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Client ID	TER	FBP	TOT OUT
PSB9A-11-13.5-073010	82.0%	60.8%	0
PSB9A-1.5-2-073010	65.2%	48.4%	0
PSB9A-2-4-073010	49.2%	38.6%	0
PSB9A-4-6-073010	60.8%	43.6%	0
PSB9A-0-0.5-073010	5.0%*	44.4%	1
PSB10-0-0.5-073010	40.4%	68.8%	0
PSB10-1.5-2-073010	42.0%	56.4%	0
PSB10-2-4-073010	52.0%	57.6%	0
PSB10-4-6-073010	58.0%	66.4%	0
MB-081210	85.2%	54.8%	0
LCS-081210	88.4%	57.2%	0
PSB10-8.5-10-073010	62.0%	59.2%	0
PSB10-8.5-10-073010 MS	62.0%	60.0%	0
PSB10-8.5-10-073010 MSD	72.4%	61.6%	0
PSB10-14-15-073010	77.6%	60.8%	0
PSB10-20-25-073010	73.2%	46.8%	0
PSB9-8.5-9.5-073010	60.8%	47.2%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(47-112)	(35-112)
(FBP) = 2-Fluorobiphenyl	(40-100)	(34-100)

Prep Method: SW3550C
Log Number Range: 10-18433 to 10-18451

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Client ID	TER	FBP	TOT OUT
MB-082410	74.4%	59.6%	0
LCS-082410	78.4%	64.4%	0
PSB9A-0-0.5-073010	5.0%*	44.4%	1
PSB9A-0-0.5-073010 RE	49.2%	53.6%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(47-112)	(35-112)
(FBP) = 2-Fluorobiphenyl	(40-100)	(34-100)

Prep Method: SW3550C
Log Number Range: 10-18437 to 10-18437

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB10-8.5-10-073010
MS/MSD

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted MS/MSD: 08/12/10

Date Analyzed MS: 08/17/10 18:27
MSD: 08/17/10 19:00
Instrument/Analyst MS: NT6/JZ
MSD: NT6/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount MS: 25.8 g-dry-wt
MSD: 26.4 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Alumina Cleanup: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzo(a)anthracene	< 19.2	274	484	56.6%	333	473	70.4%	19.4%
Chrysene	< 19.2	266	484	55.0%	330	473	69.8%	21.5%
Benzo(a)pyrene	< 19.2	202	484	41.7%	271	473	57.3%	29.2%
Indeno(1,2,3-cd)pyrene	< 19.2	195	484	40.3%	292	473	61.7%	39.8%
Dibenz(a,h)anthracene	< 19.2	192	484	39.7%	300	473	63.4%	43.9%
Total Benzofluoranthenes	< 19.2	475	969	49.0%	612	947	64.6%	25.2%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB10-8.5-10-073010
MATRIX SPIKE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 18:27
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	---
218-01-9	Chrysene	19	---
50-32-8	Benzo(a)pyrene	19	---
193-39-5	Indeno(1,2,3-cd)pyrene	19	---
53-70-3	Dibenz(a,h)anthracene	19	---
TOTBFA	Total Benzofluoranthenes	19	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	62.0%
2-Fluorobiphenyl	60.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB10-8.5-10-073010
MATRIX SPIKE DUPLICATE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 19:00
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.4 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	---
218-01-9	Chrysene	19	---
50-32-8	Benzo(a)pyrene	19	---
193-39-5	Indeno(1,2,3-cd)pyrene	19	---
53-70-3	Dibenz(a,h)anthracene	19	---
TOTBFA	Total Benzofluoranthenes	19	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	72.4%
2-Fluorobiphenyl	61.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: LCS-081210
LAB CONTROL

Lab Sample ID: LCS-081210
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 11:49
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: No

Analyte	Lab Control	Spike Added	Recovery
Benzo(a)anthracene	360	500	72.0%
Chrysene	346	500	69.2%
Benzo(a)pyrene	301	500	60.2%
Indeno(1,2,3-cd)pyrene	338	500	67.6%
Dibenz(a,h)anthracene	340	500	68.0%
Total Benzofluoranthenes	677	1000	67.7%

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	88.4%
2-Fluorobiphenyl	57.2%

Results reported in µg/kg

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

RG78MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Lab File ID: 08171003 Date Extracted: 08/12/10

Instrument ID: NT6 Date Analyzed: 08/17/10

Matrix: SOLID Time Analyzed: 1116

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	RG78LCSS1	RG78LCSS1	08171004	08/17/10
02	PSB9A-11-13.5-07	RG78A	08171005	08/17/10
03	PSB9A-1.5-2-0730	RG78B	08171006	08/17/10
04	PSB9A-2-4-073010	RG78C	08171007	08/17/10
05	PSB9A-4-6-073010	RG78D	08171008	08/17/10
06	PSB9A-0-0.5-0730	RG78E	08171009	08/17/10
07	PSB10-1.5-2-0730	RG78G	08171011	08/17/10
08	PSB10-2-4-073010	RG78H	08171012	08/17/10
09	PSB10-4-6-073010	RG78I	08171013	08/17/10
10	PSB10-8.5-10-073	RG78J	08171014	08/17/10
11	PSB10-8.5-10-07	RG78JMS	08171016	08/17/10
12	PSB10-8.5-10-07	RG78JMSD	08171017	08/17/10
13	PSB10-20-25-0730	RG78L	08171020	08/17/10
14	PSB9-8.5-9.5-073	RG78S	08171021	08/17/10
15	PSB10-0-0.5-0730	RG78F	08181006	08/18/10
16	PSB10-14-15-0730	RG78K	08181007	08/18/10
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FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: MB-081210
METHOD BLANK

Lab Sample ID: MB-081210
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/19/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 11:16
Instrument/Analyst: NT6/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	85.2%
2-Fluorobiphenyl	54.8%

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT6 Project: LORA LAKE RI

DFTPP Injection Date: 07/23/10 DFTPP Injection Time: 1501

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	39.4
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	10.0 - 80.0% of mass 198	50.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 60.0% of mass 198	26.8
365	Greater than 1.0% of mass 198	3.26
441	0.0 - 24.0% of mass 442	10.5 (15.1)2
442	50.0 - 200.0% of mass 198	69.5
443	15.0 - 24.0% of mass 442	14.4 (20.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	IC250723	IC250723	07231001	07/23/10	1501
02	IC010723	IC010723	07231002	07/23/10	1538
03	IC050723	IC050723	07231003	07/23/10	1616
04	IC100723	IC100723	07231004	07/23/10	1652
05	IC400723	IC400723	07231005	07/23/10	1729
06	IC600723	IC600723	07231006	07/23/10	1801
07	IC800723	IC800723	07231007	07/23/10	1838
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22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT6 Project: LORA LAKE RI

DFTPP Injection Date: 08/17/10 DFTPP Injection Time: 1003

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	10.0 - 80.0% of mass 198	48.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	27.7
365	Greater than 1.0% of mass 198	3.17
441	0.0 - 24.0% of mass 442	11.2 (14.3)2
442	50.0 - 200.0% of mass 198	78.3
443	15.0 - 24.0% of mass 442	15.9 (20.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0817	CC0817	08171001	08/17/10	1003
02	RG78MBS1	RG78MBS1	08171003	08/17/10	1116
03	RG78LCSS1	RG78LCSS1	08171004	08/17/10	1149
04	PSB9A-11-13.5-07	RG78A	08171005	08/17/10	1222
05	PSB9A-1.5-2-0730	RG78B	08171006	08/17/10	1255
06	PSB9A-2-4-073010	RG78C	08171007	08/17/10	1328
07	PSB9A-4-6-073010	RG78D	08171008	08/17/10	1401
08	PSB9A-0-0.5-0730	RG78E	08171009	08/17/10	1435
09	PSB10-1.5-2-0730	RG78G	08171011	08/17/10	1541
10	PSB10-2-4-073010	RG78H	08171012	08/17/10	1614
11	PSB10-4-6-073010	RG78I	08171013	08/17/10	1647
12	PSB10-8.5-10-073	RG78J	08171014	08/17/10	1720
13	PSB10-8.5-10-07	RG78JMS	08171016	08/17/10	1827
14	PSB10-8.5-10-07	RG78JMSD	08171017	08/17/10	1900
15	PSB10-14-15-0730	RG78K	08171019	08/17/10	2006
16	PSB10-20-25-0730	RG78L	08171020	08/17/10	2038
17	PSB9-8.5-9.5-073	RG78S	08171021	08/17/10	2111
18					
19					
20					
21					
22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT6 Project: LORA LAKE RI

DFTPP Injection Date: 08/18/10 DFTPP Injection Time: 1223

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	38.3
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	10.0 - 80.0% of mass 198	48.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1.0% of mass 198	3.14
441	0.0 - 24.0% of mass 442	11.5 (14.5)2
442	50.0 - 200.0% of mass 198	79.5
443	15.0 - 24.0% of mass 442	16.1 (20.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0818	CC0818	08181001	08/18/10	1223
02	PSB10-0-0.5-0730	RG78F	08181006	08/18/10	1513
03	PSB10-14-15-0730	RG78K	08181007	08/18/10	1545
04					
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6B

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: NT6 Calibration Date: 07/23/10

LAB FILE ID: RRF1 =07231002 RRF5 =07231003 RRF10 =07231004
RRF25 =07231001 RRF40 =07231005 RRF60 =07231006
RRF80 =07231007

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 60	RRF 80	___ RRF	%RSD /R^2
Naphthalene	1.344	1.200	1.234	1.150	1.086	0.978	0.921	1.130	13.0
2-Methylnaphthalene	0.728	0.638	0.666	0.617	0.598	0.559	0.536	0.620	10.5
Acenaphthylene	2.388	2.206	2.262	2.117	1.979	1.779	1.677	2.058	12.6
Acenaphthene	1.449	1.311	1.358	1.306	1.260	1.174	1.140	1.285	8.3
Dibenzofuran	1.971	1.742	1.824	1.716	1.655	1.552	1.492	1.707	9.5
Fluorene	1.725	1.509	1.552	1.465	1.398	1.296	1.238	1.455	11.3
Phenanthrene	1.456	1.294	1.343	1.256	1.196	1.102	1.049	1.242	11.3
Anthracene	1.476	1.349	1.393	1.324	1.242	1.132	1.067	1.283	11.3
Fluoranthene	1.469	1.440	1.474	1.407	1.319	1.196	1.117	1.346	10.5
Pyrene	1.491	1.147	1.199	1.298	1.134	1.109	1.052	1.204	12.3
Benzo(a)anthracene	1.391	1.067	1.108	1.258	1.104	1.098	1.067	1.156	10.6
Chrysene	1.340	1.001	1.042	1.160	1.031	1.015	0.986	1.082	11.7
Benzo(a)pyrene	1.398	1.287	1.363	1.282	1.246	1.150	1.101	1.261	8.5
Indeno(1,2,3-cd)pyrene	1.859	1.700	1.761	1.708	1.672	1.582	1.529	1.687	6.5
Dibenzo(a,h)anthracene	1.371	1.330	1.381	1.333	1.299	1.220	1.142	1.296	6.7
Benzo(g,h,i)perylene	1.721	1.540	1.579	1.535	1.502	1.415	1.360	1.522	7.7
1-methylnaphthalene	0.741	0.665	0.679	0.642	0.620	0.581	0.557	0.641	9.7
Total Benzofluoranthenes	1.545	1.350	1.369	1.319	1.237	1.131	1.063	1.288	12.5
Terphenyl-d14	0.848	0.620	0.666	0.760	0.675	0.682		0.708	11.6
2-Fluorobiphenyl	1.655	1.418	1.444	1.370	1.295	1.218		1.400	10.7

<- Outside QC limits: %RSD <20% or R^2 > 0.990

6C

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: NT6 Calibration Date: 07/23/10

LAB FILE ID: RRF1 =07231002 RRF5 =07231003 RRF10 =07231004
RRF25 =07231001 RRF40 =07231005 RRF60 =07231006
RRF80 =07231007

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 60	RRF 80	___ RRF	%RSD /R^2
Naphthalene	1.344	1.200	1.234	1.150	1.086	0.978	0.921	1.130	13.0
2-Methylnaphthalene	0.728	0.638	0.666	0.617	0.598	0.559	0.536	0.620	10.5
Acenaphthylene	2.388	2.206	2.262	2.117	1.979	1.779	1.677	2.058	12.6
Acenaphthene	1.449	1.311	1.358	1.306	1.260	1.174	1.140	1.285	8.3
Dibenzofuran	1.971	1.742	1.824	1.716	1.655	1.552	1.492	1.707	9.5
Fluorene	1.725	1.509	1.552	1.465	1.398	1.296	1.238	1.455	11.3
Phenanthrene	1.456	1.294	1.343	1.256	1.196	1.102	1.049	1.242	11.3
Anthracene	1.476	1.349	1.393	1.324	1.242	1.132	1.067	1.283	11.3
Fluoranthene	1.469	1.440	1.474	1.407	1.319	1.196	1.117	1.346	10.5
Pyrene	1.491	1.147	1.199	1.298	1.134	1.109	1.052	1.204	12.3
Benzo(a)anthracene	1.391	1.067	1.108	1.258	1.104	1.098	1.067	1.156	10.6
Chrysene	1.340	1.001	1.042	1.160	1.031	1.015	0.986	1.082	11.7
Benzo(a)pyrene	1.398	1.287	1.363	1.282	1.246	1.150	1.101	1.261	8.5
Indeno(1,2,3-cd)pyrene	1.859	1.700	1.761	1.708	1.672	1.582	1.529	1.687	6.5
Dibenzo(a,h)anthracene	1.371	1.330	1.381	1.333	1.299	1.220	1.142	1.296	6.7
Benzo(g,h,i)perylene	1.721	1.540	1.579	1.535	1.502	1.415	1.360	1.522	7.7
1-methylnaphthalene	0.741	0.665	0.679	0.642	0.620	0.581	0.557	0.641	9.7
Total Benzofluoranthenes	1.545	1.350	1.369	1.319	1.237	1.131	1.063	1.288	12.5
Terphenyl-d14	0.848	0.620	0.666	0.760	0.675	0.682		0.708	11.6
2-Fluorobiphenyl	1.655	1.418	1.444	1.370	1.295	1.218		1.400	10.7

<- Outside QC limits: %RSD <20% or R^2 > 0.990

7B

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: NT6 Cont. Calib. Date: 08/17/10

Init. Calib. Date: 07/23/10 Cont. Calib. Time: 1003

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	1.130	1.160	0.700	AVRG	2.6
2-Methylnaphthalene	0.620	0.627	0.400	AVRG	1.1
Acenaphthylene	2.058	2.088	0.900	AVRG	1.4
Acenaphthene	1.285	1.262	0.900	AVRG	-1.8
Dibenzofuran	1.707	1.669	0.800	AVRG	-2.2
Fluorene	1.455	1.473	0.900	AVRG	1.2
Phenanthrene	1.242	1.230	0.700	AVRG	-1.0
Anthracene	1.283	1.297	0.700	AVRG	1.1
Fluoranthene	1.346	1.439	0.600	AVRG	6.9
Pyrene	1.204	1.248	0.600	AVRG	3.6
Benzo(a)anthracene	1.156	1.239	0.800	AVRG	7.2
Chrysene	1.082	1.122	0.700	AVRG	3.7
Benzo(a)pyrene	1.261	1.266	0.700	AVRG	0.4
Indeno(1,2,3-cd)pyrene	1.687	1.712	0.500	AVRG	1.5
Dibenzo(a,h)anthracene	1.296	1.350	0.400	AVRG	4.2
Benzo(g,h,i)perylene	1.522	1.488	0.500	AVRG	-2.2
1-methylnaphthalene	0.641	0.653	0.010	AVRG	1.9
Total Benzofluoranthenes	1.288	1.288	0.010	AVRG	0.0
Terphenyl-d14	0.708	0.749	0.010	AVRG	5.8
2-Fluorobiphenyl	1.400	1.347	0.010	AVRG	-3.8

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII SV-1

7B

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Instrument ID: NT6 Cont. Calib. Date: 08/18/10

Init. Calib. Date: 07/23/10 Cont. Calib. Time: 1223

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	1.130	1.149	0.700	AVRG	1.7
2-Methylnaphthalene	0.620	0.613	0.400	AVRG	-1.1
Acenaphthylene	2.058	2.048	0.900	AVRG	-0.5
Acenaphthene	1.285	1.244	0.900	AVRG	-3.2
Dibenzofuran	1.707	1.654	0.800	AVRG	-3.1
Fluorene	1.455	1.445	0.900	AVRG	-0.7
Phenanthrene	1.242	1.228	0.700	AVRG	-1.1
Anthracene	1.283	1.298	0.700	AVRG	1.2
Fluoranthene	1.346	1.465	0.600	AVRG	8.8
Pyrene	1.204	1.225	0.600	AVRG	1.7
Benzo(a)anthracene	1.156	1.209	0.800	AVRG	4.6
Chrysene	1.082	1.130	0.700	AVRG	4.4
Benzo(a)pyrene	1.261	1.261	0.700	AVRG	0.0
Indeno(1,2,3-cd)pyrene	1.687	1.758	0.500	AVRG	4.2
Dibenzo(a,h)anthracene	1.296	1.374	0.400	AVRG	6.0
Benzo(g,h,i)perylene	1.522	1.564	0.500	AVRG	2.8
1-methylnaphthalene	0.641	0.658	0.010	AVRG	2.6
Total Benzofluoranthenes	1.288	1.282	0.010	AVRG	-0.5
Terphenyl-d14	0.708	0.733	0.010	AVRG	3.5
2-Fluorobiphenyl	1.400	1.332	0.010	AVRG	-4.8

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Ical Midpoint ID: 07231001 Ical Date: 07/23/10

Instrument ID: NT6 Cont. Cal Date: 08/17/10

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	ICAL MIDPT	182786	7.59	584137	9.64	320442	12.50
	UPPER LIMIT	365572		1168274		640884	
	LOWER LIMIT	91393		292068		160221	
	CCAL	146831	6.95	471677	9.01	271376	11.85
	UPPER LIMIT		7.45		9.51		12.35
	LOWER LIMIT		6.45		8.51		11.35
01	RG78MBS1			574562	9.01	332601	11.85
02	RG78LCSS1			592795	9.01	340576	11.85
03	PSB9A-11-13.			573989	9.01	341380	11.84
04	PSB9A-1.5-2-			617580	9.01	367180	11.84
05	PSB9A-2-4-07			612112	9.01	361935	11.84
06	PSB9A-4-6-07			591661	9.01	342924	11.84
07	PSB9A-0-0.5-			610080	9.01	342543	11.84
08	PSB10-1.5-2-			610484	9.01	350790	11.85
09	PSB10-2-4-07			596735	9.01	338642	11.85
10	PSB10-4-6-07			582869	9.01	330859	11.85
11	PSB10-8.5-10			587430	9.01	335423	11.85
12	PSB10-8.5-10			571458	9.01	321060	11.85
13	PSB10-8.5-10			596947	9.01	336897	11.85
14	PSB10-20-25-			603096	9.01	347854	11.85
15	PSB9-8.5-9.5			603766	9.01	352420	11.84
16							
17							
18							
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21							
22							
23							
24							
25							

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Ical Midpoint ID: 07231001 Ical Date: 07/23/10

Instrument ID: NT6 Cont. Cal Date: 08/17/10

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	ICAL MIDPT	503793		14.86		532343		19.16		517269		21.31	
	UPPER LIMIT	1007586				1064686				1034538			
	LOWER LIMIT	251896				266172				258634			
	CCAL	437424		14.19		496791		18.46		491254		20.59	
	UPPER LIMIT			14.69				18.96				21.09	
	LOWER LIMIT			13.69				17.96				20.09	
01	RG78MBS1	530455		14.19		589806		18.45		569012		20.59	
02	RG78LCSS1	557562		14.19		599679		18.46		580813		20.59	
03	PSB9A-11-13.	543011		14.18		605965		18.45		566477		20.58	
04	PSB9A-1.5-2-	587454		14.18		637009		18.45		605504		20.59	
05	PSB9A-2-4-07	582060		14.18		636281		18.45		601646		20.59	
06	PSB9A-4-6-07	550666		14.19		612197		18.45		585871		20.59	
07	PSB9A-0-0.5-	529156		14.19		543728		18.45		546367		20.59	
08	PSB10-1.5-2-	549501		14.19		688289		18.46		742251		20.59	
09	PSB10-2-4-07	539987		14.19		676227		18.46		723009		20.60	
10	PSB10-4-6-07	524227		14.19		739045		18.46		812300		20.61	
11	PSB10-8.5-10	533260		14.19		671258		18.46		723584		20.59	
12	PSB10-8.5-10	523652		14.19		647186		18.46		703203		20.59	
13	PSB10-8.5-10	547711		14.19		702006		18.46		760326		20.60	
14	PSB10-20-25-	551394		14.19		699310		18.46		720836		20.59	
15	PSB9-8.5-9.5	561483		14.19		702160		18.45		701047		20.59	
16													
17													
18													
19													
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21													
22													
23													
24													
25													

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-2

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Ical Midpoint ID: 07231001 Ical Date: 07/23/10

Instrument ID: NT6 Cont. Cal Date: 08/17/10

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	719428	20.35				
	UPPER LIMIT	1438856					
	LOWER LIMIT	359714					
	CCAL	591733	19.71				
	UPPER LIMIT		20.21				
	LOWER LIMIT		19.21				
01	RG78MBS1						
02	RG78LCSS1						
03	PSB9A-11-13.						
04	PSB9A-1.5-2-						
05	PSB9A-2-4-07						
06	PSB9A-4-6-07						
07	PSB9A-0-0.5-						
08	PSB10-1.5-2-						
09	PSB10-2-4-07						
10	PSB10-4-6-07						
11	PSB10-8.5-10						
12	PSB10-8.5-10						
13	PSB10-8.5-10						
14	PSB10-20-25-						
15	PSB9-8.5-9.5						
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IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-3

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Ical Midpoint ID: 07231001 Ical Date: 07/23/10

Instrument ID: NT6 Cont. Cal Date: 08/18/10

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	ICAL MIDPT	182786	7.59	584137	9.64	320442	12.50
	UPPER LIMIT	365572		1168274		640884	
	LOWER LIMIT	91393		292068		160221	
	CCAL	172311	6.88	546358	8.94	307752	11.77
	UPPER LIMIT		7.38		9.44		12.27
	LOWER LIMIT		6.38		8.44		11.27
01	PSB10-0-0.5-			526934	8.94	319472	11.77
02	PSB10-14-15-			528564	8.94	316621	11.77
03							
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IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Ical Midpoint ID: 07231001 Ical Date: 07/23/10

Instrument ID: NT6 Cont. Cal Date: 08/18/10

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	ICAL MIDPT	503793	14.86	532343	19.16	517269	21.31
	UPPER LIMIT	1007586		1064686		1034538	
	LOWER LIMIT	251896		266172		258634	
	CCAL	488731	14.11	578337	18.37	580924	20.50
	UPPER LIMIT		14.61		18.87		21.00
	LOWER LIMIT		13.61		18.87		20.00
01	PSB10-0-0.5-	516243	14.11	700835	18.36	765105	20.50
02	PSB10-14-15-	514126	14.11	606545	18.36	627072	20.50
03							
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25							

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-2

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Ical Midpoint ID: 07231001 Ical Date: 07/23/10

Instrument ID: NT6 Cont. Cal Date: 08/18/10

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	719428	20.35				
	UPPER LIMIT	1438856					
	LOWER LIMIT	359714					
	CCAL	693606	19.63				
	UPPER LIMIT		20.13				
	LOWER LIMIT		19.13				
01	PSB10-0-0.5-						
02	PSB10-14-15-						
03							
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IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-3

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: LCS-082410
LAB CONTROL

Lab Sample ID: LCS-082410
LIMS ID: 10-18437
Matrix: Soil
Data Release Authorized:
Reported: 08/26/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: 07/31/10

Date Extracted: 08/24/10
Date Analyzed: 08/25/10 12:16
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: No

Analyte	Lab Control	Spike Added	Recovery
Benzo(a)anthracene	356	500	71.2%
Chrysene	347	500	69.4%
Benzo(a)pyrene	327	500	65.4%
Indeno(1,2,3-cd)pyrene	392	500	78.4%
Dibenz(a,h)anthracene	395	500	79.0%
Total Benzofluoranthenes	672	1000	67.2%

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	78.4%
2-Fluorobiphenyl	64.4%

Results reported in µg/kg

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

RG78MBS2

Lab Name: ANALYTICAL RESOURCES, INC — Client: FLOYD/SNIDER

ARI Job No: RG78 — Project: LORA LAKE RI

Lab File ID: 08251002 — Date Extracted: 08/24/10

Instrument ID: NT4 — Date Analyzed: 08/25/10

Matrix: SOLID — Time Analyzed: 1142

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	RG78LCSS2	RG78LCSS2	08251003	08/25/10
02	PSB9A-0-0.5-0730	RG78ERE	08251004	08/25/10
03	PSB15-13-15-0730	RG79ORE	08251005	08/25/10
04				
05				
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07				
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26				
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29				
30				

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: MB-082410
METHOD BLANK

Lab Sample ID: MB-082410
LIMS ID: 10-18437
Matrix: Soil
Data Release Authorized:
Reported: 08/26/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 08/24/10
Date Analyzed: 08/25/10 11:42
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	74.4%
2-Fluorobiphenyl	59.6%

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT4 Project: LORO LAKE RI

DFTPP Injection Date: 07/19/10 DFTPP Injection Time: 1618

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	34.2
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	55.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 60.0% of mass 198	23.4
365	Greater than 1.0% of mass 198	2.50
441	0.0 - 24.0% of mass 442	13.5 (15.4)2
442	50.0 - 200.0% of mass 198	87.7
443	15.0 - 24.0% of mass 442	17.3 (19.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	IC250719	IC250719	07191001	07/19/10	1618
02	IC010719	IC010719	07191002	07/19/10	1656
03	IC050719	IC050719	07191003	07/19/10	1733
04	IC100719	IC100719	07191004	07/19/10	1807
05	IC400719	IC400719	07191005	07/19/10	1841
06	IC600719	IC600719	07191006	07/19/10	1914
07	IC800719	IC800719	07191007	07/19/10	1948
08					
09					
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22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT4 Project: LORO LAKE RI

DFTPP Injection Date: 08/25/10 DFTPP Injection Time: 1054

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.4 (1.0)1
127	10.0 - 80.0% of mass 198	54.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	23.5
365	Greater than 1.0% of mass 198	2.49
441	0.0 - 24.0% of mass 442	11.1 (11.6)2
442	50.0 - 200.0% of mass 198	95.5
443	15.0 - 24.0% of mass 442	19.0 (19.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0825	CC0825	08251001	08/25/10	1054
02	RG78MBS2	RG78MBS2	08251002	08/25/10	1142
03	RG78LCSS2	RG78LCSS2	08251003	08/25/10	1216
04	PSB9A-0-0.5-0730	RG78ERE	08251004	08/25/10	1249
05	PSB15-13-15-0730	RG79ORE	08251005	08/25/10	1323
06					
07					
08					
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21					
22					

FORM V SV

6B

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Instrument ID: NT4 Calibration Date: 07/19/10

LAB FILE ID: RRF1 =07191002 RRF5 =07191003 RRF10 =07191004
RRF25 =07191001 RRF40 =07191005 RRF60 =07191006
RRF80 =07191007

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 60	RRF 80	___ RRF	%RSD /R^2
Naphthalene	1.181	1.019	1.014	0.962	0.896	0.777	0.792	0.949	14.9
2-Methylnaphthalene	0.746	0.663	0.663	0.650	0.638	0.574	0.580	0.645	9.0
Acenaphthylene	1.949	1.755	1.753	1.672	1.560	1.388	1.409	1.641	12.3
Acenaphthene	1.245	1.099	1.112	1.066	1.031	0.944	0.980	1.068	9.2
Dibenzofuran	1.646	1.492	1.498	1.424	1.360	1.260	1.288	1.424	9.5
Fluorene	1.445	1.300	1.316	1.260	1.179	1.051	1.074	1.232	11.4
Phenanthrene	1.270	1.078	1.084	1.038	0.986	0.893	0.904	1.036	12.4
Anthracene	1.269	1.107	1.124	1.074	1.022	0.908	0.916	1.060	11.9
Fluoranthene	1.233	1.101	1.145	1.101	1.070	0.936	0.928	1.073	10.2
Pyrene	1.549	1.324	1.302	1.293	1.196	1.087	1.126	1.268	12.1
Benzo(a)anthracene	1.400	1.207	1.241	1.176	1.116	1.016	1.050	1.172	11.0
Chrysene	1.384	1.200	1.214	1.158	1.079	0.977	1.021	1.148	12.0
Benzo(a)pyrene	1.234	1.104	1.132	1.125	1.085	1.008	1.041	1.104	6.6
Indeno(1,2,3-cd)pyrene	1.109	1.079	1.195	1.245	1.261	1.177	1.234	1.186	5.9
Dibenzo(a,h)anthracene	0.819	0.863	0.968	1.027	1.038	0.954	1.003	0.953	8.8
Benzo(g,h,i)perylene	0.944	0.900	1.054	1.046	1.078	1.014	1.058	1.013	6.6
1-methylnaphthalene	0.738	0.636	0.645	0.635	0.631	0.563	0.574	0.632	9.1
Total Benzofluoranthenes	1.382	1.227	1.244	1.199	1.142	1.024	1.044	1.180	10.5
Terphenyl-d14	0.936	0.818	0.742	0.802	0.727	0.686	0.710	0.774	11.1
2-Fluorobiphenyl	1.464	1.332	1.174	1.258	1.162	1.080	1.106	1.225	11.1

<- Outside QC limits: %RSD <20% or R^2 > 0.990

FORM VI SV-1

7B

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Instrument ID: NT4 Cont. Calib. Date: 08/25/10

Init. Calib. Date: 07/19/10 Cont. Calib. Time: 1054

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.949	0.914	0.700	AVRG	-3.7
2-Methylnaphthalene	0.645	0.594	0.400	AVRG	-7.9
Acenaphthylene	1.641	1.595	0.900	AVRG	-2.8
Acenaphthene	1.068	0.996	0.900	AVRG	-6.7
Dibenzofuran	1.424	1.339	0.800	AVRG	-6.0
Fluorene	1.232	1.137	0.900	AVRG	-7.7
Phenanthrene	1.036	0.939	0.700	AVRG	-9.4
Anthracene	1.060	0.974	0.700	AVRG	-8.1
Fluoranthene	1.073	0.962	0.600	AVRG	-10.3
Pyrene	1.268	1.253	0.600	AVRG	-1.2
Benzo(a)anthracene	1.172	1.133	0.800	AVRG	-3.3
Chrysene	1.148	1.103	0.700	AVRG	-3.9
Benzo(a)pyrene	1.104	1.034	0.700	AVRG	-6.3
Indeno(1,2,3-cd)pyrene	1.186	1.218	0.500	AVRG	2.7
Dibenzo(a,h)anthracene	0.953	1.009	0.400	AVRG	5.9
Benzo(g,h,i)perylene	1.013	1.082	0.500	AVRG	6.8
1-methylnaphthalene	0.632	0.581	0.010	AVRG	-8.1
Total Benzofluoranthenes	1.180	1.051	0.010	AVRG	-10.9
Terphenyl-d14	0.774	0.720	0.010	AVRG	-7.0
2-Fluorobiphenyl	1.225	1.115	0.010	AVRG	-9.0

<- Exceeds QC limit of 20% D
* RF less than minimum RF

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/25/10

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	ICAL MIDPT	356478	8.70	1293412	10.74	785897	13.63
	UPPER LIMIT	712956		2586824		1571794	
	LOWER LIMIT	178239		646706		392948	
	CCAL	398586	7.52	1359281	9.56	795834	12.40
	UPPER LIMIT		8.02		10.06		12.90
	LOWER LIMIT		7.02		9.06		11.90
01	RG78MBS2			1760219	9.56	1044927	12.40
02	RG78LCSS2			1722044	9.55	1033820	12.40
03	PSB9A-0-0.5-			1762005	9.55	1050442	12.40
04	PSB15-13-15-			1761958	9.55	1038825	12.39
05							
06							
07							
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24							
25							

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/25/10

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	ICAL MIDPT	1313990	16.03	1155293	20.38	1146289	22.58
	UPPER LIMIT	2627980		2310586		2292578	
	LOWER LIMIT	656995		577646		573144	
	CCAL	1279774	14.75	1003908	19.03	1186080	21.17
	UPPER LIMIT		15.25		19.53		21.67
	LOWER LIMIT		14.25		18.53		20.67
01	RG78MBS2	1628771	14.75	1348280	19.03	1426142	21.17
02	RG78LCSS2	1584991	14.75	1299858	19.03	1457844	21.17
03	PSB9A-0-0.5-	1580793	14.75	1315117	19.02	1466690	21.17
04	PSB15-13-15-	1584948	14.75	1451077	19.03	1555973	21.18
05							
06							
07							
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25							

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-2

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/25/10

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	1825297	21.45				
	UPPER LIMIT	3650594					
	LOWER LIMIT	912648					
	CCAL	1590251	20.22				
	UPPER LIMIT		20.72				
	LOWER LIMIT		19.72				
01	RG78MBS2						
02	RG78LCSS2						
03	PSB9A-0-0.5-						
04	PSB15-13-15-						
05							
06							
07							
08							
09							
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22							
23							
24							
25							

IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-3

PCP/Chlorophenols Analysis
Report and Summary QC Forms

ARI Job ID: RG78

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB9A-11-13.5-073010
SAMPLE

Lab Sample ID: RG78A
LIMS ID: 10-18433
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/21/10 23:16
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.37 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.5	< 7.5 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	55.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB9A-1.5-2-073010
SAMPLE

Lab Sample ID: RG78B
LIMS ID: 10-18434
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/21/10 23:36
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.97 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 3.1%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	6.3	19

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	22.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB9A-2-4-073010
SAMPLE

Lab Sample ID: RG78C
LIMS ID: 10-18435
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/21/10 23:56
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.70 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 4.9%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.4	13 P

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	30.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB9A-4-6-073010
SAMPLE

Lab Sample ID: RG78D
LIMS ID: 10-18436
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/22/10 00:16
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.60 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 8.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.5	< 6.5 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	30.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB9A-0-0.5-073010
SAMPLE

Lab Sample ID: RG78E
LIMS ID: 10-18437
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/22/10 00:36
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.85 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 3.5%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**6.3**	**38**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	30.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB10-0-0.5-073010
SAMPLE

Lab Sample ID: RG78F
LIMS ID: 10-18438
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/22/10 00:56
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.97 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 6.1%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**6.3**	**53**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	28.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB10-1.5-2-073010
SAMPLE

Lab Sample ID: RG78G
LIMS ID: 10-18439
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/22/10 01:16
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.47 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**6.6**	**210**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	49.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB10-2-4-073010
SAMPLE

Lab Sample ID: RG78H
LIMS ID: 10-18440
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 16:52
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.29 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 5.00
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**34**	**280**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	64.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB10-4-6-073010
SAMPLE

Lab Sample ID: RG78I
LIMS ID: 10-18441
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 17:12
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.45 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 10.0
Percent Moisture: 7.2%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**66**	**450**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	61.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB10-8.5-10-073010
SAMPLE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 17:32
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.49 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.6	28

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	54.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB10-14-15-073010
SAMPLE

Lab Sample ID: RG78K
LIMS ID: 10-18443
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/22/10 03:56
Instrument/Analyst: ECD1/AAR

Sample Amount: 10.6 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 3.2%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.9	< 5.9 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	35.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
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Sample ID: PSB10-20-25-073010
SAMPLE

Lab Sample ID: RG78L
LIMS ID: 10-18444
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/22/10 04:16
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.01 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 20.2%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.8	< 7.8 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	50.4%

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Client ID	TBP	TOT OUT
PSB9A-11-13.5-073010	55.6%	0
PSB9A-1.5-2-073010	22.1%	0
PSB9A-2-4-073010	30.8%	0
PSB9A-4-6-073010	30.0%	0
PSB9A-0-0.5-073010	30.5%	0
PSB10-0-0.5-073010	28.1%	0
PSB10-1.5-2-073010	49.6%	0
PSB10-2-4-073010	64.8%	0
PSB10-4-6-073010	61.6%	0
MB-081210	64.0%	0
LCS-081210	66.2%	0
PSB10-8.5-10-073010	54.0%	0
PSB10-8.5-10-073010 MS	57.8%	0
PSB10-8.5-10-073010 MSD	59.4%	0
PSB10-14-15-073010	35.2%	0
PSB10-20-25-073010	50.4%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(50-115)	(10-146)

Prep Method: SW3550B
Log Number Range: 10-18433 to 10-18444

FORM-II SW8041

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
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Sample ID: PSB10-8.5-10-073010
MS/MSD

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted MS/MSD: 08/12/10

Sample Amount MS: 9.09 g-dry-wt
MSD: 9.25 g-dry-wt

Date Analyzed MS: 08/22/10 03:16
MSD: 08/22/10 03:36

Final Extract Volume MS: 25 mL
MSD: 25 mL

Instrument/Analyst MS: ECD1/AAR
MSD: ECD1/AAR

Dilution Factor MS: 1.00
MSD: 1.00

Percent Moisture: 11.1%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	27.7	72.2	68.8	64.7%	68.7	67.6	60.7%	5.0%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB10-8.5-10-073010
MATRIX SPIKE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/22/10 03:16
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.09 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.9	---

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	57.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB10-8.5-10-073010
MATRIX SPIKE DUP

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/22/10 03:36
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.25 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.8	---

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	59.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: LCS-081210
LAB CONTROL

Lab Sample ID: LCS-081210
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 16:32
Instrument/Analyst: ECD1/AAR

Sample Amount: 10.0 g
Final Extract Volume: 25 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	51.0	62.5	81.6%

Chlorophenols Surrogate Recovery

2,4,6-Tribromophenol	66.2%

Results reported in µg/kg

CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

RG78MBS1

Lab Name: ANALYTICAL RESOURCES, INC — Client: FLOYD/SNIDER

ARI Job No.: RG78 — Project: LORA LAKE RI

Lab Sample ID: RG78MBS1 — Lab File ID: 0823A013

Matrix (soil/water) SOLID — Extraction:(SepF/Cont/Sonc) SW3550C

Sulfur Cleanup (Y/N) Y — Date Extracted: 08/12/10

Date Analyzed (1): 08/23/10 — Date Analyzed (2): 08/23/10

Time Analyzed (1): 1612 — Time Analyzed (2): 1612

Instrument ID (1): ECD1 — Instrument ID (2): ECD1

GC Column (1): ZB5 ID: 0.53(mm) — GC Column (2): ZB35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PSB9A-11-13.	RG78A	08/21/10	08/21/10
02	PSB9A-1.5-2-	RG78B	08/21/10	08/21/10
03	PSB9A-2-4-07	RG78C	08/21/10	08/21/10
04	PSB9A-4-6-07	RG78D	08/22/10	08/22/10
05	PSB9A-0-0.5-	RG78E	08/22/10	08/22/10
06	PSB10-0-0.5-	RG78F	08/22/10	08/22/10
07	PSB10-1.5-2-	RG78G	08/22/10	08/22/10
08	RG78LCSS1	RG78LCSS1	08/23/10	08/23/10
09	PSB10-2-4-07	RG78H	08/23/10	08/23/10
10	PSB10-4-6-07	RG78I	08/23/10	08/23/10
11	PSB10-8.5-10	RG78J	08/23/10	08/23/10

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
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Sample ID: MB-081210
METHOD BLANK

Lab Sample ID: MB-081210
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 16:12
Instrument/Analyst: ECD1/AAR

Sample Amount: 10.0 g
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.2	< 6.2 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	64.0%

FORM I

6D
CHLOROPHENOL INITIAL CALIBRATION
RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	RT OF STANDARDS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	MEAN RT	RT WINDOW FROM	TO
Pentachlorophenol	11.22	11.22	11.22	11.21	11.21	11.21	11.15	11.29
2,4,6-Trichloropheno	7.26	7.26	7.26	7.26	7.26	7.26	7.19	7.33
2,3,6-Trichloropheno	7.62	7.62	7.62	7.61	7.61	7.62	7.55	7.69
2,4,5-Trichloropheno	8.25	8.24	8.23	8.22	8.21	8.23	8.17	8.31
2,3,4-Trichloropheno	8.81	8.79	8.78	8.77	8.76	8.78	8.72	8.86
2,3,5,6-Tetrachlorop	9.01	9.01	9.00	9.00	8.99	9.00	8.94	9.08
2,3,4,5-Tetrachlorop	10.42	10.41	10.41	10.40	10.39	10.40	10.34	10.48
2,4-Dichlorophenol	6.90	6.89	6.89	6.89	6.88	6.89	6.82	6.96
2,4,6-Tribromophenol	10.01	10.00	10.00	9.99	9.98	10.00	9.93	10.07

6D
CHLOROPHENOL INITIAL CALIBRATION
RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

	RT OF STANDARDS					MEAN	RT WINDOW	
COMPOUND	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	RT	FROM	TO
Pentachlorophenol___	11.66	11.65	11.65	11.65	11.65	11.65	11.59	11.73
2,4,6-Trichloropheno	7.33	7.33	7.33	7.33	7.33	7.33	7.26	7.40
2,3,6-Trichloropheno	7.86	7.86	7.86	7.86	7.85	7.86	7.79	7.93
2,4,5-Trichloropheno	8.62	8.61	8.60	8.59	8.59	8.60	8.54	8.69
2,3,4-Trichloropheno	9.38	9.37	9.36	9.36	9.35	9.36	9.31	9.45
2,3,5,6-Tetrachlorop	9.28	9.27	9.27	9.26	9.26	9.27	9.21	9.35
2,3,4,5-Tetrachlorop	11.13	11.12	11.11	11.11	11.10	11.11	11.06	11.20
2,4-Dichlorophenol__	7.17	7.16	7.16	7.16	7.15	7.16	7.10	7.24
2,4,6-Tribromophenol	10.65	10.64	10.64	10.63	10.63	10.64	10.58	10.72

6E
CHLOROPHENOL INITIAL CALIBRATION
CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	CALIBRATION FACTORS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	R^2/ %RSD	CT
Pentachlorophenol	24528	19824	17830	15337	13686	11965	0.9996	Q
2,4,6-Trichlorophenol	13540	10473	9560	8413	7539	6660	0.9997	Q
2,3,6-Trichlorophenol	12902	10500	9607	8801	8025	7161	0.9998	Q
2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	19.7	A
2,3,4-Trichlorophenol	8393	7068	7135	7922	5474	5053	19.4	A
2,3,5,6-Tetrachloroph	17905	15060	14996	14233	11882	10558	18.4	A
2,3,4,5-Tetrachloroph	16324	13459	12294	10216	8895	7628	0.9995	Q
2,4-Dichlorophenol	721	627	611	486	409	342	0.9993	Q
2,4,6-Tribromophenol	18561	14998	13969	12135	11200	9940	0.9997	Q
						AVE RSD	23.3	

CT stands for Curve Types:
- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
LVL 2: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
LVL 3: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
LVL 4: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
LVL 5: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
LVL 6: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d

6E
CHLOROPHENOL INITIAL CALIBRATION
CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	CALIBRATION FACTORS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	R^2/ %RSD	CT
Pentachlorophenol____	28790	24995	23903	21206	20507	18368	16.2	A
2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10070	14.0	A
2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	14.6	A
2,4,5-Trichlorophenol	9451	7724	7152	6203	5568	4896	0.9997	Q
2,3,4-Trichlorophenol	13138	11714	9430	8408	7532	6669	0.9995	Q
2,3,5,6-Tetrachloroph	22710	20100	18581	17733	16666	15298	14.2	A
2,3,4,5-Tetrachloroph	18414	16106	15136	13550	12798	11541	17.0	A
2,4-Dichlorophenol___	859	720	733	619	536	458	0.9997	Q
2,4,6-Tribromophenol	22648	19438	18816	17793	17226	16083	12.2	A
						AVE RSD	17.9	

CT stands for Curve Types:
- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
LVL 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
LVL 3: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
LVL 4: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d
LVL 5: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
LVL 6: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/21/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :2256

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.22	11.15	11.29	21.3	25.0	-14.8
2,4,6-Trichlorophenol	7.27	7.19	7.33	24.7	25.0	-1.2
2,3,6-Trichlorophenol	7.62	7.55	7.69	23.3	25.0	-6.8
2,4,5-Trichlorophenol	8.22	8.17	8.31	23.0	25.0	-8.0
2,3,4-Trichlorophenol	8.77	8.72	8.86	20.5	25.0	-18.0
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	22.2	25.0	-11.2
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	21.7	25.0	-13.2
2,4-Dichlorophenol	6.89	6.82	6.96	210	250	-16.0
2,4,6-Tribromophenol (surr	9.99	9.93	10.07	22.6	25.0	-9.6

AVERAGE %D = 11.0

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/21/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :2256

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	23.7	25.0	-5.2
2,4,6-Trichlorophenol	7.33	7.26	7.40	24.5	25.0	-2.0
2,3,6-Trichlorophenol	7.86	7.79	7.93	23.0	25.0	-8.0
2,4,5-Trichlorophenol	8.59	8.54	8.69	24.6	25.0	-1.6
2,3,4-Trichlorophenol	9.36	9.31	9.45	22.7	25.0	-9.2
2,3,5,6-Tetrachlorophenol	9.26	9.21	9.35	23.8	25.0	-4.8
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	21.7	25.0	-13.2
2,4-Dichlorophenol	7.16	7.10	7.24	229	250	-8.4
2,4,6-Tribromophenol (surr	10.63	10.58	10.72	23.2	25.0	-7.2

AVERAGE %D = 6.6

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/22/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :0256

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.22	11.15	11.29	21.8	25.0	-12.8
2,4,6-Trichlorophenol	7.27	7.19	7.33	24.1	25.0	-3.6
2,3,6-Trichlorophenol	7.62	7.55	7.69	22.6	25.0	-9.6
2,4,5-Trichlorophenol	8.22	8.17	8.31	22.6	25.0	-9.6
2,3,4-Trichlorophenol	8.77	8.72	8.86	22.8	25.0	-8.8
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	22.8	25.0	-8.8
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	20.8	25.0	-16.8
2,4-Dichlorophenol	6.89	6.82	6.96	204	250	-18.4
2,4,6-Tribromophenol (surr	9.99	9.93	10.07	22.6	25.0	-9.6

AVERAGE %D = 10.9

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/22/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :0256

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	21.8	25.0	-12.8
2,4,6-Trichlorophenol	7.33	7.26	7.40	24.5	25.0	-2.0
2,3,6-Trichlorophenol	7.86	7.79	7.93	23.1	25.0	-7.6
2,4,5-Trichlorophenol	8.59	8.54	8.69	24.0	25.0	-4.0
2,3,4-Trichlorophenol	9.36	9.31	9.45	22.5	25.0	-10.0
2,3,5,6-Tetrachlorophenol	9.26	9.21	9.35	23.8	25.0	-4.8
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	21.4	25.0	-14.4
2,4-Dichlorophenol	7.16	7.10	7.24	228	250	-8.8
2,4,6-Tribromophenol (surr	10.63	10.58	10.72	23.1	25.0	-7.6

AVERAGE %D = 8.0

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/23/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :1552

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.21	11.15	11.29	21.9	25.0	-12.4
2,4,6-Trichlorophenol	7.26	7.19	7.33	24.0	25.0	-4.0
2,3,6-Trichlorophenol	7.62	7.55	7.69	23.1	25.0	-7.6
2,4,5-Trichlorophenol	8.22	8.17	8.31	23.0	25.0	-8.0
2,3,4-Trichlorophenol	8.77	8.72	8.86	22.2	25.0	-11.2
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	22.3	25.0	-10.8
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	21.7	25.0	-13.2
2,4-Dichlorophenol	6.89	6.82	6.96	222	250	-11.2
2,4,6-Tribromophenol (surr	9.99	9.93	10.07	22.2	25.0	-11.2

AVERAGE %D = 10.0

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/23/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :1552

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	23.0	25.0	-8.0
2,4,6-Trichlorophenol	7.33	7.26	7.40	22.6	25.0	-9.6
2,3,6-Trichlorophenol	7.86	7.79	7.93	21.9	25.0	-12.4
2,4,5-Trichlorophenol	8.59	8.54	8.69	23.6	25.0	-5.6
2,3,4-Trichlorophenol	9.36	9.31	9.45	23.5	25.0	-6.0
2,3,5,6-Tetrachlorophenol	9.26	9.21	9.35	22.9	25.0	-8.4
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	22.4	25.0	-10.4
2,4-Dichlorophenol	7.16	7.10	7.24	223	250	-10.8
2,4,6-Tribromophenol (surr	10.63	10.58	10.72	23.4	25.0	-6.4

AVERAGE %D = 8.6

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/23/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :1832

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.21	11.15	11.29	23.6	25.0	-5.6
2,4,6-Trichlorophenol	7.26	7.19	7.33	24.1	25.0	-3.6
2,3,6-Trichlorophenol	7.62	7.55	7.69	22.6	25.0	-9.6
2,4,5-Trichlorophenol	8.22	8.17	8.31	23.0	25.0	-8.0
2,3,4-Trichlorophenol	8.77	8.72	8.86	21.2	25.0	-15.2
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	22.5	25.0	-10.0
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	21.9	25.0	-12.4
2,4-Dichlorophenol	6.89	6.82	6.96	222	250	-11.2
2,4,6-Tribromophenol (surr	9.99	9.93	10.07	22.6	25.0	-9.6

AVERAGE %D = 9.5

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/23/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :1832

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	23.9	25.0	-4.4
2,4,6-Trichlorophenol	7.33	7.26	7.40	23.3	25.0	-6.8
2,3,6-Trichlorophenol	7.86	7.79	7.93	22.3	25.0	-10.8
2,4,5-Trichlorophenol	8.59	8.54	8.69	24.0	25.0	-4.0
2,3,4-Trichlorophenol	9.36	9.31	9.45	22.7	25.0	-9.2
2,3,5,6-Tetrachlorophenol	9.26	9.21	9.35	23.1	25.0	-7.6
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	21.9	25.0	-12.4
2,4-Dichlorophenol	7.16	7.10	7.24	229	250	-8.4
2,4,6-Tribromophenol (surr	10.63	10.58	10.72	22.4	25.0	-10.4

AVERAGE %D = 8.2

FORM VII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.00

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01		PCPD	08/09/10	1223	9.99
02		PCPA	08/09/10	1243	10.01
03		PCPB	08/09/10	1303	10.00
04		PCPC	08/09/10	1323	10.00
05		PCPE	08/09/10	1343	9.98
06		PCPF	08/09/10	1403	9.98
07	ZZZZZ	ZZZZZ	08/09/10	1423	10.00
08		PCPCCAL	08/21/10	2256	9.99
09	PSB9A-11-13.	RG78A	08/21/10	2316	10.00
10	PSB9A-1.5-2-	RG78B	08/21/10	2336	10.00
11	PSB9A-2-4-07	RG78C	08/21/10	2356	10.00
12	PSB9A-4-6-07	RG78D	08/22/10	0016	10.00
13	PSB9A-0-0.5-	RG78E	08/22/10	0036	9.99
14	PSB10-0-0.5-	RG78F	08/22/10	0056	9.99
15	PSB10-1.5-2-	RG78G	08/22/10	0116	9.99
16	ZZZZZ	ZZZZZ	08/22/10	0236	9.99
17		PCPCCAL	08/22/10	0256	9.99
18		PCPCCAL	08/23/10	1552	9.99
19	RG78MBS1	RG78MBS1	08/23/10	1612	9.99
20	RG78LCSS1	RG78LCSS1	08/23/10	1632	9.99
21	PSB10-2-4-07	RG78H	08/23/10	1652	10.00
22	PSB10-4-6-07	RG78I	08/23/10	1712	10.00
23	PSB10-8.5-10	RG78J	08/23/10	1732	9.99
24	ZZZZZ	ZZZZZ	08/23/10	1812	9.99
25		PCPCCAL	08/23/10	1832	9.99

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.65

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01		PCPD	08/09/10	1223	10.63
02		PCPA	08/09/10	1243	10.65
03		PCPB	08/09/10	1303	10.64
04		PCPC	08/09/10	1323	10.64
05		PCPE	08/09/10	1343	10.63
06		PCPF	08/09/10	1403	10.63
07	ZZZZZ	ZZZZZ	08/09/10	1423	10.64
08		PCPCCAL	08/21/10	2256	10.63
09	PSB9A-11-13.	RG78A	08/21/10	2316	10.64
10	PSB9A-1.5-2-	RG78B	08/21/10	2336	10.64
11	PSB9A-2-4-07	RG78C	08/21/10	2356	10.64
12	PSB9A-4-6-07	RG78D	08/22/10	0016	10.64
13	PSB9A-0-0.5-	RG78E	08/22/10	0036	10.64
14	PSB10-0-0.5-	RG78F	08/22/10	0056	10.63
15	PSB10-1.5-2-	RG78G	08/22/10	0116	10.64
16	ZZZZZ	ZZZZZ	08/22/10	0236	10.63
17		PCPCCAL	08/22/10	0256	10.63
18		PCPCCAL	08/23/10	1552	10.63
19	RG78MBS1	RG78MBS1	08/23/10	1612	10.63
20	RG78LCSS1	RG78LCSS1	08/23/10	1632	10.63
21	PSB10-2-4-07	RG78H	08/23/10	1652	10.64
22	PSB10-4-6-07	RG78I	08/23/10	1712	10.64
23	PSB10-8.5-10	RG78J	08/23/10	1732	10.63
24	ZZZZZ	ZZZZZ	08/23/10	1812	10.63
25		PCPCCAL	08/23/10	1832	10.63

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII PCP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB9-8.5-9.5-073010
SAMPLE

Lab Sample ID: RG78S
LIMS ID: 10-18451
Matrix: Soil
Data Release Authorized:
Reported: 09/01/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/27/10
Date Analyzed: 09/01/10 14:14
Instrument/Analyst: ECD1/YZ

Sample Amount: 9.18 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 8.9%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.8	< 6.8 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	71.2%

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Client ID	TBP	TOT OUT
MB-082710	69.6%	0
LCS-082710	66.8%	0
PSB9-8.5-9.5-073010	71.2%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(50-115)	(10-146)

Prep Method: SW3550B
Log Number Range: 10-18451 to 10-18451

FORM-II SW8041

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: LCS-082710
LAB CONTROL

Lab Sample ID: LCS-082710
LIMS ID: 10-18451
Matrix: Soil
Data Release Authorized:
Reported: 09/01/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/27/10
Date Analyzed: 09/01/10 12:14
Instrument/Analyst: ECD1/YZ

Sample Amount: 10.0 g
Final Extract Volume: 25 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	47.3	62.5	75.7%

Chlorophenols Surrogate Recovery	
2,4,6-Tribromophenol	66.8%

Results reported in µg/kg

4

CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

RG78MBS2

Lab Name: ANALYTICAL RESOURCES, INC — Client: FLOYD-SNIDER

ARI Job No.: RG78 — Project: LORA LAKE RI

Lab Sample ID: RG78MBS2 — Lab File ID: 0901A006

Matrix (soil/water) SOLID — Extraction:(SepF/Cont/Sonc) SW3550C

Sulfur Cleanup (Y/N) Y — Date Extracted: 08/27/10

Date Analyzed (1): 09/01/10 — Date Analyzed (2): 09/01/10

Time Analyzed (1): 1154 — Time Analyzed (2): 1154

Instrument ID (1): ECD1 — Instrument ID (2): ECD1

GC Column (1): ZB5 ID: 0.53(mm) — GC Column (2): ZB35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	RG78LCSS2	RG78LCSS2	09/01/10	09/01/10
02	MW14-15-16.5	RG94A	09/01/10	09/01/10
03	PSB9-8.5-9.5	RG78S	09/01/10	09/01/10
04	MW13-18.5-19	RG94E	09/01/10	09/01/10
05	MW13-18.5-19	RG94E	09/01/10	09/01/10

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MB-082710
METHOD BLANK

Lab Sample ID: MB-082710
LIMS ID: 10-18451
Matrix: Soil
Data Release Authorized:
Reported: 09/01/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 08/27/10
Date Analyzed: 09/01/10 11:54
Instrument/Analyst: ECD1/YZ

Sample Amount: 10.0 g
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.2	< 6.2 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	69.6%

FORM I

6D
CHLOROPHENOL INITIAL CALIBRATION
RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

	RT OF STANDARDS					MEAN	RT WINDOW	
COMPOUND	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	RT	FROM	TO
Pentachlorophenol	11.22	11.22	11.22	11.21	11.21	11.21	11.15	11.29
2,4,6-Trichloropheno	7.26	7.26	7.26	7.26	7.26	7.26	7.19	7.33
2,3,6-Trichloropheno	7.62	7.62	7.62	7.61	7.61	7.62	7.55	7.69
2,4,5-Trichloropheno	8.25	8.24	8.23	8.22	8.21	8.23	8.17	8.31
2,3,4-Trichloropheno	8.81	8.79	8.78	8.77	8.76	8.78	8.72	8.86
2,3,5,6-Tetrachlorop	9.01	9.01	9.00	9.00	8.99	9.00	8.94	9.08
2,3,4,5-Tetrachlorop	10.42	10.41	10.41	10.40	10.39	10.40	10.34	10.48
2,4-Dichlorophenol	6.90	6.89	6.89	6.89	6.88	6.89	6.82	6.96
2,4,6-Tribromophenol	10.01	10.00	10.00	9.99	9.98	10.00	9.93	10.07

6D
CHLOROPHENOL INITIAL CALIBRATION
RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

	RT OF STANDARDS					MEAN	RT WINDOW	
COMPOUND	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	RT	FROM	TO
Pentachlorophenol	11.66	11.65	11.65	11.65	11.65	11.65	11.59	11.73
2,4,6-Trichloropheno	7.33	7.33	7.33	7.33	7.33	7.33	7.26	7.40
2,3,6-Trichloropheno	7.86	7.86	7.86	7.86	7.85	7.86	7.79	7.93
2,4,5-Trichloropheno	8.62	8.61	8.60	8.59	8.59	8.60	8.54	8.69
2,3,4-Trichloropheno	9.38	9.37	9.36	9.36	9.35	9.36	9.31	9.45
2,3,5,6-Tetrachlorop	9.28	9.27	9.27	9.26	9.26	9.27	9.21	9.35
2,3,4,5-Tetrachlorop	11.13	11.12	11.11	11.11	11.10	11.11	11.06	11.20
2,4-Dichlorophenol	7.17	7.16	7.16	7.16	7.15	7.16	7.10	7.24
2,4,6-Tribromophenol	10.65	10.64	10.64	10.63	10.63	10.64	10.58	10.72

6E
CHLOROPHENOL INITIAL CALIBRATION
CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	CALIBRATION FACTORS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	R^2/ %RSD	CT
Pentachlorophenol____	24528	19824	17830	15337	13686	11965	0.9996	Q
2,4,6-Trichlorophenol	13540	10473	9560	8413	7539	6660	0.9997	Q
2,3,6-Trichlorophenol	12902	10500	9607	8801	8025	7161	0.9998	Q
2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	19.7	A
2,3,4-Trichlorophenol	8393	7068	7135	7922	5474	5053	19.4	A
2,3,5,6-Tetrachloroph	17905	15060	14996	14233	11882	10558	18.4	A
2,3,4,5-Tetrachloroph	16324	13459	12294	10216	8895	7628	0.9995	Q
2,4-Dichlorophenol___	721	627	611	486	409	342	0.9993	Q
2,4,6-Tribromophenol	18561	14998	13969	12135	11200	9940	0.9997	Q
						AVE RSD	23.3	

CT stands for Curve Types:
- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
LVL 2: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
LVL 3: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
LVL 4: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
LVL 5: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
LVL 6: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d

6E
CHLOROPHENOL INITIAL CALIBRATION
CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	CALIBRATION FACTORS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	R^2/ %RSD	CT
Pentachlorophenol____	28790	24995	23903	21206	20507	18368	16.2	A
2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10070	14.0	A
2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	14.6	A
2,4,5-Trichlorophenol	9451	7724	7152	6203	5568	4896	0.9997	Q
2,3,4-Trichlorophenol	13138	11714	9430	8408	7532	6669	0.9995	Q
2,3,5,6-Tetrachloroph	22710	20100	18581	17733	16666	15298	14.2	A
2,3,4,5-Tetrachloroph	18414	16106	15136	13550	12798	11541	17.0	A
2,4-Dichlorophenol___	859	720	733	619	536	458	0.9997	Q
2,4,6-Tribromophenol	22648	19438	18816	17793	17226	16083	12.2	A
						AVE RSD	17.9	

CT stands for Curve Types:
- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
LVL 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
LVL 3: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
LVL 4: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d
LVL 5: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
LVL 6: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :09/01/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :1135

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.22	11.15	11.29	21.9	25.0	-12.4
2,4,6-Trichlorophenol	7.27	7.19	7.33	22.7	25.0	-9.2
2,3,6-Trichlorophenol	7.62	7.55	7.69	21.5	25.0	-14.0
2,4,5-Trichlorophenol	8.22	8.17	8.31	23.4	25.0	-6.4
2,3,4-Trichlorophenol	8.77	8.72	8.86	19.8	25.0	-20.8
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	21.4	25.0	-14.4
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	21.5	25.0	-14.0
2,4-Dichlorophenol	6.89	6.82	6.96	188	250	-24.8
2,4,6-Tribromophenol (surr	10.00	9.93	10.07	21.9	25.0	-12.4

AVERAGE %D = 14.3

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :09/01/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :1135

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.66	11.59	11.73	21.5	25.0	-14.0
2,4,6-Trichlorophenol	7.34	7.26	7.40	21.6	25.0	-13.6
2,3,6-Trichlorophenol	7.86	7.79	7.93	21.0	25.0	-16.0
2,4,5-Trichlorophenol	8.60	8.54	8.69	22.1	25.0	-11.6
2,3,4-Trichlorophenol	9.36	9.31	9.45	22.5	25.0	-10.0
2,3,5,6-Tetrachlorophenol	9.27	9.21	9.35	22.2	25.0	-11.2
2,3,4,5-Tetrachlorophenol	11.12	11.06	11.20	20.9	25.0	-16.4
2,4-Dichlorophenol	7.16	7.10	7.24	202	250	-19.2
2,4,6-Tribromophenol (surr	10.64	10.58	10.72	21.6	25.0	-13.6

AVERAGE %D = 14.0

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :09/01/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :1354

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.22	11.15	11.29	23.0	25.0	-8.0
2,4,6-Trichlorophenol	7.27	7.19	7.33	23.3	25.0	-6.8
2,3,6-Trichlorophenol	7.62	7.55	7.69	22.4	25.0	-10.4
2,4,5-Trichlorophenol	8.22	8.17	8.31	22.5	25.0	-10.0
2,3,4-Trichlorophenol	8.77	8.72	8.86	20.9	25.0	-16.4
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	22.9	25.0	-8.4
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	22.7	25.0	-9.2
2,4-Dichlorophenol	6.89	6.82	6.96	200	250	-20.0
2,4,6-Tribromophenol (surr	10.00	9.93	10.07	23.0	25.0	-8.0

AVERAGE %D = 10.8

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :09/01/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :1514

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.22	11.15	11.29	23.4	25.0	-6.4
2,4,6-Trichlorophenol	7.27	7.19	7.33	23.4	25.0	-6.4
2,3,6-Trichlorophenol	7.62	7.55	7.69	22.5	25.0	-10.0
2,4,5-Trichlorophenol	8.22	8.17	8.31	22.6	25.0	-9.6
2,3,4-Trichlorophenol	8.77	8.72	8.86	21.0	25.0	-16.0
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	22.7	25.0	-9.2
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	22.9	25.0	-8.4
2,4-Dichlorophenol	6.89	6.82	6.96	199	250	-20.4
2,4,6-Tribromophenol (surr	9.99	9.93	10.07	23.3	25.0	-6.8

AVERAGE %D = 10.4

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :09/01/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :1354

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	22.8	25.0	-8.8
2,4,6-Trichlorophenol	7.33	7.26	7.40	22.8	25.0	-8.8
2,3,6-Trichlorophenol	7.86	7.79	7.93	22.0	25.0	-12.0
2,4,5-Trichlorophenol	8.60	8.54	8.69	24.0	25.0	-4.0
2,3,4-Trichlorophenol	9.36	9.31	9.45	22.9	25.0	-8.4
2,3,5,6-Tetrachlorophenol	9.27	9.21	9.35	23.1	25.0	-7.6
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	22.2	25.0	-11.2
2,4-Dichlorophenol	7.16	7.10	7.24	216	250	-13.6
2,4,6-Tribromophenol (surr	10.64	10.58	10.72	22.8	25.0	-8.8

AVERAGE %D = 9.2

FORM VII PCP

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :09/01/10

Lab Sample ID (PCP): PCP CCAL Time Analyzed :1514

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	22.9	25.0	-8.4
2,4,6-Trichlorophenol	7.33	7.26	7.40	23.0	25.0	-8.0
2,3,6-Trichlorophenol	7.86	7.79	7.93	22.2	25.0	-11.2
2,4,5-Trichlorophenol	8.59	8.54	8.69	24.1	25.0	-3.6
2,3,4-Trichlorophenol	9.36	9.31	9.45	23.1	25.0	-7.6
2,3,5,6-Tetrachlorophenol	9.26	9.21	9.35	23.4	25.0	-6.4
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	22.4	25.0	-10.4
2,4-Dichlorophenol	7.16	7.10	7.24	218	250	-12.8
2,4,6-Tribromophenol (surr	10.63	10.58	10.72	23.0	25.0	-8.0

AVERAGE %D = 8.5

FORM VII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.00

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01		PCPD	08/09/10	1223	9.99
02		PCPA	08/09/10	1243	10.01
03		PCPB	08/09/10	1303	10.00
04		PCPC	08/09/10	1323	10.00
05		PCPE	08/09/10	1343	9.98
06		PCPF	08/09/10	1403	9.98
07		PCP CCAL	09/01/10	1135	10.00
08	RG78MBS2	RG78MBS2	09/01/10	1154	10.00
09	RG78LCSS2	RG78LCSS2	09/01/10	1214	10.00
10	MW14-15-16.5	RG94A	09/01/10	1254	10.00
11		PCP CCAL	09/01/10	1354	10.00
12	PSB9-8.5-9.5	RG78S	09/01/10	1414	10.00
13	MW13-18.5-19	RG94E	09/01/10	1434	10.00
14	MW13-18.5-19	RG94F	09/01/10	1454	10.00
15		PCP CCAL	09/01/10	1514	9.99

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.65

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01		PCPD	08/09/10	1223	10.63
02		PCPA	08/09/10	1243	10.65
03		PCPB	08/09/10	1303	10.64
04		PCPC	08/09/10	1323	10.64
05		PCPE	08/09/10	1343	10.63
06		PCPF	08/09/10	1403	10.63
07		PCP CCAL	09/01/10	1135	10.64
08	RG78MBS2	RG78MBS2	09/01/10	1154	10.64
09	RG78LCSS2	RG78LCSS2	09/01/10	1214	10.64
10	MW14-15-16.5	RG94A	09/01/10	1254	10.64
11		PCP CCAL	09/01/10	1354	10.64
12	PSB9-8.5-9.5	RG78S	09/01/10	1414	10.64
13	MW13-18.5-19	RG94E	09/01/10	1434	10.64
14	MW13-18.5-19	RG94F	09/01/10	1454	10.64
15		PCP CCAL	09/01/10	1514	10.63

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.00

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01		PCPD	08/09/10	1223	9.99
02		PCPA	08/09/10	1243	10.01
03		PCPB	08/09/10	1303	10.00
04		PCPC	08/09/10	1323	10.00
05		PCPE	08/09/10	1343	9.98
06		PCPF	08/09/10	1403	9.98
07		PCP CCAL	09/01/10	1135	10.00
08	RG78MBS2	RG78MBS2	09/01/10	1154	10.00
09	RG78LCSS2	RG78LCSS2	09/01/10	1214	10.00
10	MW14-15-16.5	RG94A	09/01/10	1254	10.00
11		PCP CCAL	09/01/10	1354	10.00
12	PSB9-8.5-9.5	RG78S	09/01/10	1414	10.00
13	MW13-18.5-19	RG94E	09/01/10	1434	10.00
14	MW13-18.5-19	RG94F	09/01/10	1454	10.00
15		PCP CCAL	09/01/10	1514	9.99

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER

ARI Job No.: RG78 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.65

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01		PCPD	08/09/10	1223	10.63
02		PCPA	08/09/10	1243	10.65
03		PCPB	08/09/10	1303	10.64
04		PCPC	08/09/10	1323	10.64
05		PCPE	08/09/10	1343	10.63
06		PCPF	08/09/10	1403	10.63
07		PCP CCAL	09/01/10	1135	10.64
08	RG78MBS2	RG78MBS2	09/01/10	1154	10.64
09	RG78LCSS2	RG78LCSS2	09/01/10	1214	10.64
10	MW14-15-16.5	RG94A	09/01/10	1254	10.64
11		PCP CCAL	09/01/10	1354	10.64
12	PSB9-8.5-9.5	RG78S	09/01/10	1414	10.64
13	MW13-18.5-19	RG94E	09/01/10	1434	10.64
14	MW13-18.5-19	RG94F	09/01/10	1454	10.64
15		PCP CCAL	09/01/10	1514	10.63

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

TPHD Analysis
Report and Summary QC Forms

ARI Job ID: RG78

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 2
Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Data Release Authorized:
Reported: 08/12/10

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
RG78A	PSB9A-11-13.5-073010	08/10/10	08/11/10	1.00	Diesel	5.9	< 5.9 U
10-18433	HC ID: ---		FID9	1.0	Motor Oil	12	< 12 U
					o-Terphenyl		83.4%
RG78B	PSB9A-1.5-2-073010	08/10/10	08/11/10	1.00	Diesel	5.0	< 5.0 U
10-18434	HC ID: ---		FID9	1.0	Motor Oil	10	< 10 U
					o-Terphenyl		88.4%
RG78C	PSB9A-2-4-073010	08/10/10	08/11/10	1.00	Diesel	5.2	< 5.2 U
10-18435	HC ID: ---		FID9	1.0	Motor Oil	10	< 10 U
					o-Terphenyl		86.7%
RG78D	PSB9A-4-6-073010	08/10/10	08/11/10	1.00	Diesel	5.4	< 5.4 U
10-18436	HC ID: ---		FID9	1.0	Motor Oil	11	< 11 U
					o-Terphenyl		82.6%
RG78E	PSB9A-0-0.5-073010	08/10/10	08/11/10	1.00	Diesel	5.2	< 5.2 U
10-18437	HC ID: **RRO**		FID9	1.0	**Motor Oil**	**10**	**16**
					o-Terphenyl		80.2%
RG78F	PSB10-0-0.5-073010	08/10/10	08/11/10	1.00	**Diesel**	**5.3**	**24**
10-18438	HC ID: **DRO/MOTOR OIL**		FID9	1.0	**Motor Oil**	**11**	**310**
					o-Terphenyl		84.9%
RG78G	PSB10-1.5-2-073010	08/10/10	08/11/10	1.00	Diesel	5.4	< 5.4 U
10-18439	HC ID: **MOTOR OIL**		FID9	1.0	**Motor Oil**	**11**	**21**
					o-Terphenyl		90.7%
RG78H	PSB10-2-4-073010	08/10/10	08/11/10	1.00	**Diesel**	**5.3**	**6.5**
10-18440	HC ID: **DRO/MOTOR OIL**		FID9	1.0	**Motor Oil**	**11**	**42**
					o-Terphenyl		91.9%
RG78I	PSB10-4-6-073010	08/10/10	08/11/10	1.00	**Diesel**	**5.4**	**12**
10-18441	HC ID: **DRO/MOTOR OIL**		FID9	1.0	**Motor Oil**	**11**	**120**
					o-Terphenyl		84.7%
MB-081010	Method Blank	08/10/10	08/11/10	1.00	Diesel	5.0	< 5.0 U
10-18442	HC ID: ---		FID9	1.0	Motor Oil	10	< 10 U
					o-Terphenyl		92.2%
RG78J	PSB10-8.5-10-073010	08/10/10	08/11/10	1.00	Diesel	5.6	< 5.6 U
10-18442	HC ID: **MOTOR OIL**		FID9	1.0	**Motor Oil**	**11**	**27**
					o-Terphenyl		90.6%
RG78K	PSB10-14-15-073010	08/10/10	08/11/10	1.00	Diesel	5.0	< 5.0 U
10-18443	HC ID: ---		FID9	1.0	Motor Oil	10	< 10 U
					o-Terphenyl		92.9%
RG78L	PSB10-20-25-073010	08/10/10	08/11/10	1.00	Diesel	6.2	< 6.2 U
10-18444	HC ID: ---		FID9	1.0	Motor Oil	12	< 12 U
					o-Terphenyl		89.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 2 of 2
Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Data Release Authorized:
Reported: 08/12/10

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
RG78S	PSB9-8.5-9.5-073010	08/10/10	08/11/10	1.00	Diesel	5.4	< 5.4 U
10-18451	HC ID: ---		FID9	1.0	Motor Oil	11	< 11 U
					o-Terphenyl		84.7%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Client ID	OTER	TOT OUT
PSB9A-11-13.5-0730	83.4%	0
PSB9A-1.5-2-073010	88.4%	0
PSB9A-2-4-073010	86.7%	0
PSB9A-4-6-073010	82.6%	0
PSB9A-0-0.5-073010	80.2%	0
PSB10-0-0.5-073010	84.9%	0
PSB10-1.5-2-073010	90.7%	0
PSB10-2-4-073010	91.9%	0
PSB10-4-6-073010	84.7%	0
MB-081010	92.2%	0
LCS-081010	97.9%	0
PSB10-8.5-10-07301	90.6%	0
PSB10-8.5-10-07301 MS	97.2%	0
PSB10-8.5-10-07301 MSD	94.7%	0
PSB10-14-15-073010	92.9%	0
PSB10-20-25-073010	89.4%	0
PSB9-8.5-9.5-07301	84.7%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(63-115)	(49-120)

Prep Method: SW3546
Log Number Range: 10-18433 to 10-18451

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: PSB10-8.5-10-073010**
Page 1 of 1 **MS/MSD**

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/12/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted MS/MSD: 08/10/10

Date Analyzed MS: 08/11/10 20:34
MSD: 08/11/10 20:55
Instrument/Analyst MS: FID/MS
MSD: FID/MS

Sample Amount MS: 9.08 g-dry-wt
MSD: 9.31 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.0
MSD: 1.0
Percent Moisture: 11.1%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 5.6	143	165	86.7%	136	161	84.5%	5.0%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	97.2%	94.7%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: LCS-081010**
Page 1 of 1 **LAB CONTROL**

Lab Sample ID: LCS-081010
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/12/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/10/10
Date Analyzed: 08/11/10 22:21
Instrument/Analyst: FID/MS

Sample Amount: 10.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.0

Range	Lab Control	Spike Added	Recovery
Diesel	137	150	91.3%

TPHD Surrogate Recovery

o-Terphenyl	97.9%

Results reported in mg/kg

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: RG78
Matrix: Soil — Project: Lora Lake RI
Date Received: 07/31/10 — POS-LLA

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
10-18433-RG78A	PSB9A-11-13.5-073018.45 g		1.00 mL	D	08/10/10
10-18434-RG78B	PSB9A-1.5-2-073010	10.1 g	1.00 mL	D	08/10/10
10-18435-RG78C	PSB9A-2-4-073010	9.71 g	1.00 mL	D	08/10/10
10-18436-RG78D	PSB9A-4-6-073010	9.28 g	1.00 mL	D	08/10/10
10-18437-RG78E	PSB9A-0-0.5-073010	9.70 g	1.00 mL	D	08/10/10
10-18438-RG78F	PSB10-0-0.5-073010	9.45 g	1.00 mL	D	08/10/10
10-18439-RG78G	PSB10-1.5-2-073010	9.32 g	1.00 mL	D	08/10/10
10-18440-RG78H	PSB10-2-4-073010	9.38 g	1.00 mL	D	08/10/10
10-18441-RG78I	PSB10-4-6-073010	9.28 g	1.00 mL	D	08/10/10
10-18442-081010MB1	Method Blank	10.0 g	1.00 mL	-	08/10/10
10-18442-081010LCS1	Lab Control	10.0 g	1.00 mL	-	08/10/10
10-18442-RG78J	PSB10-8.5-10-073010	8.89 g	1.00 mL	D	08/10/10
10-18442-RG78JMS	PSB10-8.5-10-073010	9.08 g	1.00 mL	D	08/10/10
10-18442-RG78JMSD	PSB10-8.5-10-073010	9.31 g	1.00 mL	D	08/10/10
10-18443-RG78K	PSB10-14-15-073010	10.1 g	1.00 mL	D	08/10/10
10-18444-RG78L	PSB10-20-25-073010	8.10 g	1.00 mL	D	08/10/10
10-18451-RG78S	PSB9-8.5-9.5-073010	9.35 g	1.00 mL	D	08/10/10

Basis: D=Dry Weight W=As Received

TPH METHOD BLANK SUMMARY

BLANK NO.

RG78MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG78 Project No.: LORA LAKE APTS.

Date Extracted: 08/10/10 Matrix: SOLID

Date Analyzed : 08/11/10 Instrument ID : FID9

Time Analyzed : 2242

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	PSB10-4-6-07	RG78I	08/11/10
02	PSB9A-11-13.	RG78A	08/11/10
03	PSB9A-1.5-2-	RG78B	08/11/10
04	PSB9A-2-4-07	RG78C	08/11/10
05	PSB9A-4-6-07	RG78D	08/11/10
06	PSB9A-0-0.5-	RG78E	08/11/10
07	PSB10-0-0.5-	RG78F	08/11/10
08	PSB10-1.5-2-	RG78G	08/11/10
09	PSB10-2-4-07	RG78H	08/11/10
10	PSB10-8.5-10	RG78J	08/11/10
11	PSB10-8.5-10	RG78JMS	08/11/10
12	PSB10-8.5-10	RG78JMSD	08/11/10
13	PSB10-14-15-	RG78K	08/11/10
14	PSB10-20-25-	RG78L	08/11/10
15	PSB9-8.5-9.5	RG78S	08/11/10
16	RG78LCSS1	RG78LCSS1	08/11/10
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV TPH

6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

Instrument: FID9.I Project: LORA LAKE APTS.

Calibration Date: 28-JUL-2010 SDG No.: RG78

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	25798	26021	26287	26699	26258	26926	26331	1.6
AK Diesel	28440	28641	29044	29481	28983	29726	29053	1.7
OR Diesel	28651	28856	29299	29708	29231	30010	29293	1.7
o-Terph	25541	25406	25759	26018	26067	25782	25762	1.0

<- Indicates %RSD outside limits
Surrogate areas are not included in Diesel RF calculation.

Quant Ranges : WA Diesel C12-C24 (3.091-6.020)
AK Diesel C10-C25 (2.455-6.212)
OR Diesel C10-C28 (2.455-6.723)

Calibration Files	Analysis Time
0728A012.D	28-JUL-2010 20:24
0728A013.D	28-JUL-2010 20:45
0728A014.D	28-JUL-2010 21:07
0728A015.D	28-JUL-2010 21:28
0728A016.D	28-JUL-2010 21:49
0728A017.D	28-JUL-2010 22:11

NW MOTOR OIL RANGE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

Instrument: FID9.I Project: LORA LAKE APTS.

Calibration Date: 29-JUL-2010 SDG No.: RG78

Product Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil C24-C38	14669	13064	12525	12576	12003	11886	12787	7.9
Triac Surr	20395	20154	19766	20069	19304	19306	19832	2.3

<- Indicates %RSD outside limits
Surrogate areas are not included in Motor Oil RF calculation.

Calibration Files	Analysis Time
0728A019.D	28-JUL-2010 22:53
0728A020.D	28-JUL-2010 23:15
0728A021.D	28-JUL-2010 23:36
0728A022.D	28-JUL-2010 23:57
0728A023.D	29-JUL-2010 00:18
0728A024.D	29-JUL-2010 00:40

7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 11-AUG-2010 SDG No.: RG78

Analysis Time: 14:19 Lab ID: DIESEL#1

Instrument: FID9.I Lab File Name: 0811A005.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	6583083	250.0	250	0.0
AK102 (C10-C25)	7331237	252.3	250	0.9
Terphenyl	1122727	43.6	45	-3.2

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 11-AUG-2010 SDG No.: RG78

Analysis Time: 14:41 Lab ID: MOIL#1

Instrument: FID9.I Lab File Name: 0811A006.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil(C24-C38)	6483680	507.1	500	1.4	
AK103 (C25-C36)	5547012	1107.4	500	121.5	<-
n-Triacontane	890015	44.9	45	-0.3	

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 11-AUG-2010 SDG No.: RG78

Analysis Time: 19:29 Lab ID: DIESEL#2

Instrument: FID9.I Lab File Name: 0811A017.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	6591340	250.3	250	0.1
AK102 (C10-C25)	7358498	253.3	250	1.3
Terphenyl	1137737	44.2	45	-1.9

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 11-AUG-2010 SDG No.: RG78

Analysis Time: 19:51 Lab ID: MOIL#2

Instrument: FID9.I Lab File Name: 0811A018.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil(C24-C38)	6441412	503.7	500	0.7	
AK103 (C25-C36)	5590238	1116.0	500	123.2	<-
n-Triacontane	909320	45.9	45	1.9	

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 11-AUG-2010 SDG No.: RG78

Analysis Time: 23:03 Lab ID: DIESEL#3

Instrument: FID9.I Lab File Name: 0811A027.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	6718111	255.1	250	2.1
AK102 (C10-C25)	7518131	258.8	250	3.5
Terphenyl	1149174	44.6	45	-0.9

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 11-AUG-2010 SDG No.: RG78

Analysis Time: 23:25 Lab ID: MOIL#3

Instrument: FID9.I Lab File Name: 0811A028.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil(C24-C38)	6433330	503.1	500	0.6	
AK103 (C25-C36)	5589181	1115.8	500	123.2	<-
n-Triacontane	900822	45.4	45	0.9	

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG78 Project: LORA LAKE APTS.

Instrument ID: FID9 GC Column: RTX-1

Run Date: 07/29/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.77 TRIAC: 7.04

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01		RT	07/28/10	1941	4.77	7.08
02		IB	07/28/10	2002	4.77	7.08
03		DIESEL 50	07/28/10	2024	4.76	7.04
04		DIESEL 100	07/28/10	2045	4.76	7.04
05		DIESEL 250	07/28/10	2107	4.77	7.04
06		DIESEL 500	07/28/10	2128	4.78	7.04
07		DIESEL 1000	07/28/10	2149	4.80	7.03
08		DIESEL 2500	07/28/10	2211	4.83*	7.04
09		DIESEL ICV	07/28/10	2232	4.77	7.04
10		MOIL 100	07/28/10	2253	4.77	7.08
11		MOIL 250	07/28/10	2315	4.77	7.09
12		MOIL 500	07/28/10	2336	4.76	7.09*
13		MOIL 1000	07/28/10	2357	4.76	7.10*
14		MOIL 2500	07/29/10	0018	4.76	7.13*
15		MOIL 5000	07/29/10	0040	4.76	7.16*
16		MOIL ICV	07/29/10	0101	4.76	7.09*

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG78 Project: LORA LAKE APTS.

Instrument ID: FID9 GC Column: RTX-1

Run Date: 08/11/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.79 TRIAC: 7.15

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	08/11/10	1336	4.79	7.13
02	IB	IB	08/11/10	1358	4.79	7.14
03	DIESEL#1	DIESEL#1	08/11/10	1419	4.79	7.16
04	MOIL#1	MOIL#1	08/11/10	1441	4.78	7.15
05	ZZZZZ	ZZZZZ	08/11/10	1553	4.79	7.15
06	PSB10-4-6-07	RG78I	08/11/10	1615	4.79	7.14
07	PSB9A-11-13.	RG78A	08/11/10	1636	4.79	7.13
08	PSB9A-1.5-2-	RG78B	08/11/10	1658	4.79	7.14
09	PSB9A-2-4-07	RG78C	08/11/10	1720	4.79	7.13
10	PSB9A-4-6-07	RG78D	08/11/10	1741	4.79	7.12
11	PSB9A-0-0.5-	RG78E	08/11/10	1803	4.79	7.13
12	PSB10-0-0.5-	RG78F	08/11/10	1825	4.79	7.16
13	PSB10-1.5-2-	RG78G	08/11/10	1846	4.79	7.13
14	PSB10-2-4-07	RG78H	08/11/10	1908	4.79	7.13
15	DIESEL#2	DIESEL#2	08/11/10	1929	4.79	7.14
16	MOIL#2	MOIL#2	08/11/10	1951	4.78	7.13
17	PSB10-8.5-10	RG78J	08/11/10	2012	4.79	7.13
18	PSB10-8.5-10	RG78JMS	08/11/10	2034	4.80	7.13
19	PSB10-8.5-10	RG78JMSD	08/11/10	2055	4.80	7.13
20	PSB10-14-15-	RG78K	08/11/10	2116	4.79	7.12
21	PSB10-20-25-	RG78L	08/11/10	2138	4.79	7.12
22	PSB9-8.5-9.5	RG78S	08/11/10	2159	4.79	7.12
23	RG78LCSS1	RG78LCSS1	08/11/10	2221	4.80	7.12
24	RG78MBS1	RG78MBS1	08/11/10	2242	4.79	7.12
25	DIESEL#3	DIESEL#3	08/11/10	2303	4.79	7.15
26	MOIL#3	MOIL#3	08/11/10	2325	4.78	7.13

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

TPHG/BETX Analysis
Report and Summary QC Forms

ARI Job ID: RG78

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: PSB9-TB
SAMPLE

Lab Sample ID: RG78M
LIMS ID: 10-18445
Matrix: Water
Data Release Authorized: MW
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/06/10 10:23
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

			GAS ID
Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	93.5%
Bromobenzene	95.7%

Gasoline Surrogate Recovery

Trifluorotoluene	93.6%
Bromobenzene	94.9%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod **Sample ID: PSB10-TB**
TPHG by Method NWTPHG **SAMPLE**
Page 1 of 1

Lab Sample ID: RG78N
LIMS ID: 10-18446
Matrix: Water
Data Release Authorized: MW
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/06/10 10:49
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

			GAS ID
Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	96.7%
Bromobenzene	97.9%

Gasoline Surrogate Recovery

Trifluorotoluene	96.7%
Bromobenzene	96.5%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: RG78
Matrix: Water

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA

Client ID	TFT	BBZ	TOT OUT
MB-080610	89.6%	91.8%	0
LCS-080610	95.9%	96.9%	0
LCSD-080610	95.7%	97.1%	0
PSB9-TB	93.5%	95.7%	0
PSB10-TB	96.7%	97.9%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 10-18445 to 10-18446

ANALYTICAL RESOURCES INCORPORATED

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: RG78
Matrix: Water

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA

Client ID	TFT	BBZ	TOT OUT
MB-080610	89.9%	92.7%	0
LCS-080610	96.7%	97.5%	0
LCSD-080610	97.0%	98.6%	0
PSB9-TB	93.6%	94.9%	0
PSB10-TB	96.7%	96.5%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 10-18445 to 10-18446

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-080610
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080610
LIMS ID: 10-18445
Matrix: Water
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/06/10 07:17
LCSD: 08/06/10 07:43
Instrument/Analyst LCS: PID2/MH
LCSD: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	1.69	2.10	80.5%	1.79	2.10	85.2%	5.7%
Toluene	26.2	28.7	91.3%	27.0	28.7	94.1%	3.0%
Ethylbenzene	8.11	9.20	88.2%	8.38	9.20	91.1%	3.3%
m,p-Xylene	30.1	33.8	89.1%	30.9	33.8	91.4%	2.6%
o-Xylene	12.6	14.0	90.0%	12.8	14.0	91.4%	1.6%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	95.9%	95.7%
Bromobenzene	96.9%	97.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-080610
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080610
LIMS ID: 10-18445
Matrix: Water
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/06/10 07:17
LCSD: 08/06/10 07:43
Instrument/Analyst LCS: PID2/MH
LCSD: PID2/MH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	0.93	1.00	93.0%	0.95	1.00	95.0%	2.1%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	96.7%	97.0%
Bromobenzene	97.5%	98.6%

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0806S1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project No.: LORA LAKE

Date Analyzed : 08/06/10 Matrix: WATER

Time Analyzed : 0809 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS0806S1	LCS0806	08/06/10
02	LCSD0806S1	LCSD0806	08/06/10
03	PSB22-TB	RG58T	08/06/10
04	PSB23-TB	RG58U	08/06/10
05	PSB24-TB	RG58V	08/06/10
06	PSB9-TB	RG78M	08/06/10
07	PSB10-TB	RG78N	08/06/10
08			
09			
10			
11			
12			
13			
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod **Sample ID: MB-080610**
TPHG by Method NWTPHG **METHOD BLANK**

Lab Sample ID: MB-080610 QC Report No: RG78-Floyd/Snider
LIMS ID: 10-18445 Project: Lora Lake RI
Matrix: Water Event: POS-LLA
Data Release Authorized: MW Date Sampled: NA
Reported: 08/11/10 Date Received: NA

Date Analyzed: 08/06/10 08:09 Purge Volume: 5.0 mL
Instrument/Analyst: PID2/MH Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

			GAS ID
Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	89.6%
Bromobenzene	91.8%

Gasoline Surrogate Recovery

Trifluorotoluene	89.9%
Bromobenzene	92.7%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

Instrument/Det: PID2.I/RTX 502-2 FID Project: LORA LAKE

Calibration Date: 28-JUL-2010 SDG No.: RG58-RG78

Gas Range	RF1 0.1	RF2 0.25	RF3 1.0	RF4 2.5	RF5 5.0	RF6 20	Ave RF	%RSD
WA Gas	645285	580360	562860	559889	570101	542758	576875	6.2
AK Gas	1005780	915314	886524	857728	869699	800065	889185	7.7
NW Gas	689685	605684	586542	582439	591310	556137	601966	7.6
8015Gas	1455915	1351382	1309436	1264474	1268273	1179446	1304821	7.2
$TFT(Surr)	45.63636	42.52273	41.85075	40.65000	40.39098	40.27528		
	39.29000						41.51659	5.073
$BB(Surr)	33.22727	31.04545	30.40299	29.69000	29.64662	29.08989		
	28.20000						30.18603	5.362

<- Indicates %RSD outside limits
Surrogate areas are not included in RF calculation.

Quant Ranges : WA Gas Toluene - nC12
AK Gas nC6 - nC10
NW Gas Toluene - Naphthalene
8015 Gas 2-Methylpentane - 1,2,4-Trimethylbenzene

Calibration Files	Analysis Time
0728a014.d	28-JUL-2010 13:24
0728a015.d	28-JUL-2010 13:50
0728a016.d	28-JUL-2010 14:16
0728a017.d	28-JUL-2010 14:42
0728a018.d	28-JUL-2010 15:08
0728a019.d	28-JUL-2010 15:34

Surr Calibration Files	Analysis Time
0728a005.d	28-JUL-2010 09:30
0728a006.d	28-JUL-2010 09:56
0728a007.d	28-JUL-2010 10:22
0728a008.d	28-JUL-2010 10:48
0728a009.d	28-JUL-2010 11:14
0728a010.d	28-JUL-2010 11:40
0728a011.d	28-JUL-2010 12:06

BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: 072810-2 Project No.: LORA LAKE

Instrument/Det: PID2 /RTX 502-2 PID Calibration Date: 07/28/10

COMPOUND	CALIBRATION FACTORS 0.25	0.5	5	25	50	MEAN	%RSD
Benzene	124	116	118	115	116		
Toluene	120	96	102	102	101		
Ethylbenzene	136	128	110	108	107		
M/P-Xylene	84	95	101	99	98		
O-Xylene	80	110	106	105	102		
MTBE	44	44	42	42	41		
TFT(Surr)	15	14	14	14	14		
BB(Surr)	62	58	59	58	57		

Calibration Files

/chem3/pid2.i/072810-2.b/0728a005.d
/chem3/pid2.i/072810-2.b/0728a006.d
/chem3/pid2.i/072810-2.b/0728a007.d
/chem3/pid2.i/072810-2.b/0728a008.d
/chem3/pid2.i/072810-2.b/0728a009.d
/chem3/pid2.i/072810-2.b/0728a010.d
/chem3/pid2.i/072810-2.b/0728a011.d

BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: 072810-2 Project No.: LORA LAKE

Instrument/Det: PID2 /RTX 502-2 PID Calibration Date: 07/28/10

COMPOUND	CALIBRATION FACTORS 100	200	MEAN	%RSD			
Benzene	111	115	116	3.40			
Toluene	100	106	104	7.49			
Ethylbenzene	105	109	115	10.66			
M/P-Xylene	98	104	97	6.53			
O-Xylene	102	106	102	9.74			
MTBE	40	41	42	3.83			
TFT(Surr)	14	14	14	2.94			
BB(Surr)	57	56	58	3.45			

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project No.: LORA LAKE

Instrument/Det: PID2/RTX 502-2 PID Calibration Date: 07/28/10

Init. Calib. Date(s): 07/28/10 Calib. File: 0728A012.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.48	7.43	7.53	23.80	25.00	-4.8
Toluene	10.09	10.04	10.14	23.79	25.00	-4.8
Ethylbenzene	12.65	12.61	12.71	22.67	25.00	-9.3
M/P-Xylene	12.80	12.75	12.85	49.81	50.00	-0.4
O-Xylene	13.60	13.58	13.64	24.60	25.00	-1.6
MTBE	5.09	5.05	5.15	24.20	25.00	-3.2
TFT(Surr)	8.22	8.18	8.28	95.96	100.0	-4.0
BB(Surr)	14.82	14.77	14.87	97.16	100.0	-2.8

FORM VII BETX

7a

GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client:FLOYD/SNIDER

ICal Date: 28-JUL-2010

Project:LORA LAKE

CCal Date: 28-JUL-2010

SDG No.: RG58-RG78

Lab File Name: 0728a021.d

Inst/Det: PID2.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1722903	2.99	2.50	19.5
AKGas (C6-C10)	2201780	2.48	2.50	-1.0
NWGas (Tol-Nap)	1751023	2.91	2.50	16.4
8015B (2MP-TMB)	2869302	2.20	2.50	-12.0

* Surrogate areas are subtracted from Total Area

<- Indicates an RPD outside QC limits

FORM VII-GAS

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client:FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project:LORA LAKE

CCal Date: 28-JUL-2010 SDG No.: RG58-RG78

Lab File Name: 0728a021.d Inst/Det: PID2.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	68079	98.4	100.0	-1.6
Bromoflrbenz	26233	97.3	100.0	-2.7

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project No.: LORA LAKE

Instrument/Det: PID2/RTX 502-2 PID Calibration Date: 08/06/10

Init. Calib. Date(s): 07/28/10 Calib. File: 0806A002.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.49	7.43	7.53	24.64	25.00	-1.4
Toluene	10.10	10.04	10.14	24.20	25.00	-3.2
Ethylbenzene	12.66	12.61	12.71	22.87	25.00	-8.5
M/P-Xylene	12.80	12.75	12.85	48.19	50.00	-3.6
O-Xylene	13.61	13.58	13.64	23.97	25.00	-4.1
MTBE	5.11	5.05	5.15	23.70	25.00	-5.2
TFT(Surr)	8.24	8.18	8.28	101.0	100.0	1.0
BB(Surr)	14.83	14.77	14.87	99.38	100.0	-0.6

FORM VII BETX

7a

GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010

Project: LORA LAKE

CCal Date: 06-AUG-2010

SDG No.: RG58-RG78

Lab File Name: 0806a003.d

Inst/Det: PID2.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1399696	2.43	2.50	-2.9
AKGas (C6-C10)	2176873	2.45	2.50	-2.1
NWGas (Tol-Nap)	1448524	2.41	2.50	-3.7
8015B (2MP-TMB)	3181324	2.44	2.50	-2.5

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

FORM VII-GAS

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010
Project: LORA LAKE

CCal Date: 06-AUG-2010
SDG No.: RG58-RG78

Lab File Name: 0806a003.d
Inst/Det: PID2.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	72060	102.1	100.0	2.1
Bromoflrbenz	29826	102.3	100.0	2.3

FORM VII-Surr

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project No.: LORA LAKE

Instrument/Det: PID2/RTX 502-2 PID Calibration Date: 08/06/10

Init. Calib. Date(s): 07/28/10 Calib. File: 0806A014.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.49	7.43	7.53	22.90	25.00	-8.4
Toluene	10.10	10.04	10.14	21.72	25.00	-13.1
Ethylbenzene	12.66	12.61	12.71	20.54	25.00	-17.8
M/P-Xylene	12.81	12.75	12.85	41.48	50.00	-17.0
O-Xylene	13.61	13.58	13.64	21.02	25.00	-15.9
MTBE	5.11	5.05	5.15	22.17	25.00	-11.3
TFT(Surr)	8.24	8.18	8.28	90.81	100.0	-9.2
BB(Surr)	14.83	14.77	14.87	92.19	100.0	-7.8

FORM VII BETX

7a

GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010

Project: LORA LAKE

CCal Date: 06-AUG-2010

SDG No.: RG58-R678

Lab File Name: 0806a015.d

Inst/Det: PID2.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1323520	2.29	2.50	-8.2
AKGas (C6-C10)	2081870	2.34	2.50	-6.3
NWGas (Tol-Nap)	1362091	2.26	2.50	-9.5
8015B (2MP-TMB)	3034332	2.33	2.50	-7.0

* Surrogate areas are subtracted from Total Area

<- Indicates an RPD outside QC limits

FORM VII-GAS

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010
Project: LORA LAKE

CCal Date: 06-AUG-2010
SDG No.: RG58-R678

Lab File Name: 0806a015.d
Inst/Det: PID2.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	70056	95.5	100.0	-4.5
Bromoflrbenz	29684	97.8	100.0	-2.2

FORM VII-Surr

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project: LORA LAKE

Instrument ID: PID2 GC Detector: RTX 502-2 FID

Run Date: 07/28/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.18 S2 : 14.80

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		RINSE	07/28/10	0604	8.18	14.81
02		RT+BCAL 1	07/28/10	0629	8.19	14.80
03		GCAL 1	07/28/10	0655	8.19	14.80
04		RINSE	07/28/10	0904	8.20	
05		BETX .25	07/28/10	0930	8.19	14.80
06		BETX .5	07/28/10	0956	8.18	14.80
07		BETX 5	07/28/10	1022	8.18	14.80
08		BETX 25	07/28/10	1048	8.18	14.80
09		BETX 50	07/28/10	1114	8.18	14.80
10		BETX 100	07/28/10	1140	8.18	14.80
11		BETX 200	07/28/10	1206	8.18	14.80
12		BETX ICV	07/28/10	1232	8.17	14.80
13		RINSE	07/28/10	1258		
14		GAS .1	07/28/10	1324	8.18	14.80
15		GAS .25	07/28/10	1350	8.18	14.80
16		GAS 1	07/28/10	1416	8.18	14.80
17		GAS 2.5	07/28/10	1442	8.18	14.80
18		GAS 5	07/28/10	1508	8.18	14.80
19		GAS 20	07/28/10	1534	8.18	14.80
20		RINSE	07/28/10	1600		14.86
21		GAS ICV	07/28/10	1626	8.18	14.80

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)
S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project: LORA LAKE

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/06/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.23 S2 : 14.82

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01	ZZZZZ	ZZZZZ	08/06/10	0559				
02	RT+BCAL 1	RT+BCAL 1	08/06/10	0625	8.24		14.83	
03	GCAL 1	GCAL 1	08/06/10	0651	8.24		14.83	
04	LCS0806S1	LCS0806	08/06/10	0717	8.24		14.83	
05	LCSD0806S1	LCSD0806	08/06/10	0743	8.24		14.83	
06	MB0806S1	MB0806	08/06/10	0809	8.24		14.83	
07	PSB22-TB	RG58T	08/06/10	0850	8.24		14.83	
08	PSB23-TB	RG58U	08/06/10	0932	8.24		14.83	
09	PSB24-TB	RG58V	08/06/10	0958	8.24		14.83	
10	PSB9-TB	RG78M	08/06/10	1023	8.24		14.83	
11	PSB10-TB	RG78N	08/06/10	1049	8.24		14.83	
12	ZZZZZ	ZZZZZ	08/06/10	1115	8.24		14.83	
13	ZZZZZ	ZZZZZ	08/06/10	1141				
14	BCAL 2	BCAL 2	08/06/10	1207	8.24		14.83	
15	GCAL 2	GCAL 2	08/06/10	1233	8.24		14.83	
16	ZZZZZ	ZZZZZ	08/06/10	1259	8.24		14.83	
17	ZZZZZ	ZZZZZ	08/06/10	1325	8.24		14.83	
18	ZZZZZ	ZZZZZ	08/06/10	1351	8.24		14.83	
19	ZZZZZ	ZZZZZ	08/06/10	1417	8.24		14.83	
20	ZZZZZ	ZZZZZ	08/06/10	1443	8.24		14.83	
21	ZZZZZ	ZZZZZ	08/06/10	1509	8.24		14.83	
22	ZZZZZ	ZZZZZ	08/06/10	1535	8.24		14.83	
23	ZZZZZ	ZZZZZ	08/06/10	1601	8.24		14.83	
24	ZZZZZ	ZZZZZ	08/06/10	1627				
25	ZZZZZ	ZZZZZ	08/06/10	1653	8.24		14.83	
26	ZZZZZ	ZZZZZ	08/06/10	1718	8.25		14.83	
27	ZZZZZ	ZZZZZ	08/06/10	1744	8.24		14.83	
28	ZZZZZ	ZZZZZ	08/06/10	1810	8.24		14.83	
29	ZZZZZ	ZZZZZ	08/06/10	1836	8.24		14.83	
30	ZZZZZ	ZZZZZ	08/06/10	1902	8.24		14.83	
31	ZZZZZ	ZZZZZ	08/06/10	1928	8.24		14.83	
32	ZZZZZ	ZZZZZ	08/06/10	1954	8.24		14.83	

QC LIMITS

S1 = TFT(Surr) (+/- 0.05 MINUTES)
S2 = BB(Surr) (+/- 0.05 MINUTES)

* Values outside of QC limits.

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project: LORA LAKE

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/06/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.23 S2 : 14.82

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01	ZZZZZ	ZZZZZ	08/06/10	2020	8.24		14.83	
02	ZZZZZ	ZZZZZ	08/06/10	2046	8.24		14.83	
03	ZZZZZ	ZZZZZ	08/06/10	2112				
04	ZZZZZ	ZZZZZ	08/06/10	2138	8.24		14.83	
05	ZZZZZ	ZZZZZ	08/06/10	2204	8.24		14.82	

QC LIMITS

S1 = TFT(Surr) (+/- 0.05 MINUTES)
S2 = BB(Surr) (+/- 0.05 MINUTES)

* Values outside of QC limits.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB9A-11-13.5-073010
SAMPLE

Lab Sample ID: RG78A
LIMS ID: 10-18433
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/09/10 15:25
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 110 mg-dry-wt
Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	11	< 11 U
108-88-3	Toluene	11	< 11 U
100-41-4	Ethylbenzene	11	< 11 U
179601-23-1	m,p-Xylene	22	< 22 U
95-47-6	o-Xylene	11	< 11 U

			GAS ID
Gasoline Range Hydrocarbons	4.4	< 4.4 U	---

BETX Surrogate Recovery

Trifluorotoluene	93.9%
Bromobenzene	95.7%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB9A-1.5-2-073010
SAMPLE

Lab Sample ID: RG78B
LIMS ID: 10-18434
Matrix: Soil
Data Release Authorized: MW
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/09/10 15:50
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 170 mg-dry-wt
Percent Moisture: 3.1%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	7.2	< 7.2 U	
108-88-3	Toluene	7.2	< 7.2 U	
100-41-4	Ethylbenzene	7.2	< 7.2 U	
179601-23-1	m,p-Xylene	14	< 14 U	
95-47-6	o-Xylene	7.2	< 7.2 U	
	Gasoline Range Hydrocarbons	2.9	< 2.9 U	---

BETX Surrogate Recovery

Trifluorotoluene	92.6%
Bromobenzene	93.4%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: PSB9A-4-6-073010
SAMPLE

Lab Sample ID: RG78D
LIMS ID: 10-18436
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/09/10 17:04
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt
Percent Moisture: 8.1%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
179601-23-1	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

			GAS ID
Gasoline Range Hydrocarbons	4.9	< 4.9 U	---

BETX Surrogate Recovery

Trifluorotoluene	90.0%
Bromobenzene	93.0%

Gasoline Surrogate Recovery

Trifluorotoluene	97.1%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB10-0-0.5-073010
SAMPLE

Lab Sample ID: RG78F
LIMS ID: 10-18438
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/09/10 17:28
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 160 mg-dry-wt
Percent Moisture: 6.1%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	7.8	< 7.8 U	
108-88-3	Toluene	7.8	< 7.8 U	
100-41-4	Ethylbenzene	7.8	< 7.8 U	
179601-23-1	m,p-Xylene	16	< 16 U	
95-47-6	o-Xylene	7.8	< 7.8 U	
	Gasoline Range Hydrocarbons	3.1	< 3.1 U	---

BETX Surrogate Recovery

Trifluorotoluene	88.0%
Bromobenzene	92.4%

Gasoline Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	99.3%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB10-2-4-073010
SAMPLE

Lab Sample ID: RG78H
LIMS ID: 10-18440
Matrix: Soil
Data Release Authorized: WW
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/09/10 17:53
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 160 mg-dry-wt
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	7.7	< 7.7 U
108-88-3	Toluene	7.7	< 7.7 U
100-41-4	Ethylbenzene	7.7	< 7.7 U
179601-23-1	m,p-Xylene	15	< 15 U
95-47-6	o-Xylene	7.7	< 7.7 U

			GAS ID
	Gasoline Range Hydrocarbons	3.1	< 3.1 U ---

BETX Surrogate Recovery

Trifluorotoluene	90.4%
Bromobenzene	94.1%

Gasoline Surrogate Recovery

Trifluorotoluene	98.7%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: PSB10-4-6-073010
SAMPLE

Lab Sample ID: RG78I
LIMS ID: 10-18441
Matrix: Soil
Data Release Authorized: MW
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/09/10 18:17
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 160 mg-dry-wt
Percent Moisture: 7.2%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	7.8	< 7.8 U	
108-88-3	Toluene	7.8	< 7.8 U	
100-41-4	Ethylbenzene	7.8	< 7.8 U	
179601-23-1	m,p-Xylene	16	< 16 U	
95-47-6	o-Xylene	7.8	< 7.8 U	
	Gasoline Range Hydrocarbons	3.1	< 3.1 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	86.9%
Bromobenzene	90.7%

Gasoline Surrogate Recovery

Trifluorotoluene	94.5%
Bromobenzene	98.7%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB10-8.5-10-073010
SAMPLE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized: MW
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/09/10 18:42
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 140 mg-dry-wt
Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	8.8	< 8.8 U	
108-88-3	Toluene	8.8	< 8.8 U	
100-41-4	Ethylbenzene	8.8	< 8.8 U	
179601-23-1	m,p-Xylene	18	< 18 U	
95-47-6	o-Xylene	8.8	< 8.8 U	
	Gasoline Range Hydrocarbons	3.5	< 3.5 U	---

BETX Surrogate Recovery

Trifluorotoluene	85.6%
Bromobenzene	89.1%

Gasoline Surrogate Recovery

Trifluorotoluene	93.7%
Bromobenzene	96.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB10-14-15-073010
SAMPLE

Lab Sample ID: RG78K
LIMS ID: 10-18443
Matrix: Soil
Data Release Authorized: MW
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/09/10 19:56
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 180 mg-dry-wt
Percent Moisture: 3.2%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	6.7	< 6.7 U	
108-88-3	Toluene	6.7	< 6.7 U	
100-41-4	Ethylbenzene	6.7	< 6.7 U	
179601-23-1	m,p-Xylene	14	< 14 U	
95-47-6	o-Xylene	6.7	< 6.7 U	
	Gasoline Range Hydrocarbons	2.7	< 2.7 U	---

BETX Surrogate Recovery

Trifluorotoluene	88.1%
Bromobenzene	94.0%

Gasoline Surrogate Recovery

Trifluorotoluene	95.4%
Bromobenzene	102%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB10-20-25-073010
SAMPLE

Lab Sample ID: RG78L
LIMS ID: 10-18444
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/09/10 20:20
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 110 mg-dry-wt
Percent Moisture: 20.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	11	< 11 U
108-88-3	Toluene	11	< 11 U
100-41-4	Ethylbenzene	11	< 11 U
179601-23-1	m,p-Xylene	22	< 22 U
95-47-6	o-Xylene	11	< 11 U

			GAS ID
Gasoline Range Hydrocarbons	4.5	< 4.5 U	---

BETX Surrogate Recovery

Trifluorotoluene	89.7%
Bromobenzene	95.4%

Gasoline Surrogate Recovery

Trifluorotoluene	97.6%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: RG78
Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA

Client ID	TFT	BBZ	TOT OUT
MB-080910	90.4%	93.4%	0
LCS-080910	93.6%	97.0%	0
LCSD-080910	93.1%	96.0%	0
PSB9A-11-13.5-073010	93.9%	95.7%	0
PSB9A-1.5-2-073010	92.6%	93.4%	0
MB-081210	90.2%	92.9%	0
LCS-081210	97.1%	97.9%	0
LCSD-081210	95.1%	95.9%	0
PSB9A-2-4-073010	92.9%	95.8%	0
PSB9A-4-6-073010	90.0%	93.0%	0
PSB9A-0-0.5-073010	91.9%	97.2%	0
PSB10-0-0.5-073010	88.0%	92.4%	0
PSB10-1.5-2-073010	92.6%	96.0%	0
PSB10-2-4-073010	90.4%	94.1%	0
PSB10-4-6-073010	86.9%	90.7%	0
PSB10-8.5-10-073010	85.6%	89.1%	0
PSB10-8.5-10-073010 MS	89.8%	92.3%	0
PSB10-8.5-10-073010 MS	91.5%	97.0%	0
PSB10-14-15-073010	88.1%	94.0%	0
PSB10-20-25-073010	89.7%	95.4%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(68-124)
(BBZ) = Bromobenzene	(77-120)	(62-134)

Log Number Range: 10-18433 to 10-18444

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: RG78
Matrix: Soil

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA

Client ID	BFB	TFT	BBZ	TOT OUT
MB-080910	NA	98.9%	101%	0
LCS-080910	NA	102%	103%	0
LCSD-080910	NA	100%	102%	0
PSB9A-11-13.5-073010	NA	102%	103%	0
PSB9A-1.5-2-073010	NA	101%	101%	0
MB-081210	NA	95.0%	95.8%	0
LCS-081210	NA	101%	102%	0
LCSD-081210	NA	99.5%	98.1%	0
PSB9A-2-4-073010	NA	97.3%	100%	0
PSB9A-4-6-073010	NA	97.1%	100%	0
PSB9A-0-0.5-073010	NA	96.3%	99.1%	0
PSB10-0-0.5-073010	NA	96.2%	99.3%	0
PSB10-1.5-2-073010	NA	97.8%	100%	0
PSB10-2-4-073010	NA	98.7%	100%	0
PSB10-4-6-073010	NA	94.5%	98.7%	0
PSB10-8.5-10-073010	NA	93.7%	96.9%	0
PSB10-8.5-10-073010 MS	NA	96.7%	98.7%	0
PSB10-8.5-10-073010 MSD	NA	98.0%	102%	0
PSB10-14-15-073010	NA	95.4%	102%	0
PSB10-20-25-073010	NA	97.6%	101%	0

	LCS/MB LIMITS	QC LIMITS
(BFB) = Bromofluorobenzene	(70-130)	(70-130)
(TFT) = Trifluorotoluene	(80-120)	(66-123)
(BBZ) = Bromobenzene	(80-120)	(62-130)

Log Number Range: 10-18433 to 10-18444

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: PSB10-8.5-10-073010
MATRIX SPIKE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized: MW
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed MS: 08/09/10 19:07
MSD: 08/09/10 19:31
Instrument/Analyst MS: PID3/MH
MSD: PID3/MH

Purge Volume: 5.0 mL

Sample Amount MS: 142 mg-dry-wt
MSD: 142 mg-dry-wt

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzene	< 8.79 U	79.1	73.9	107%	73.9	73.9	100%	6.8%
Toluene	< 8.79 U	1050	1010	104%	1010	1010	100%	3.9%
Ethylbenzene	< 8.79 U	319	324	98.5%	311	324	96.0%	2.5%
m,p-Xylene	< 17.6 U	1120	1190	94.1%	1110	1190	93.3%	0.9%
o-Xylene	< 8.79 U	487	493	98.8%	484	493	98.2%	0.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	89.8%	91.5%
Bromobenzene	92.3%	97.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB10-8.5-10-073010
MATRIX SPIKE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed MS: 08/09/10 19:07
MSD: 08/09/10 19:31
Instrument/Analyst MS: PID3/MH
MSD: PID3/MH

Purge Volume: 5.0 mL

Sample Amount MS: 142 mg-dry-wt
MSD: 142 mg-dry-wt

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons	< 3.52 U	36.8	35.2	105%	35.0	35.2	99.4%	5.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	MS	MSD
Trifluorotoluene	96.7%	98.0%
Bromobenzene	98.7%	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-080910
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080910
LIMS ID: 10-18433
Matrix: Soil
Data Release Authorized:
Reported: 08/16/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/09/10 07:52
LCSD: 08/09/10 08:17
Instrument/Analyst LCS: PID3/MH
LCSD: PID3/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	99.0	105	94.3%	98.5	105	93.8%	0.5%
Toluene	1320	1440	91.7%	1320	1440	91.7%	0.0%
Ethylbenzene	398	460	86.5%	406	460	88.3%	2.0%
m,p-Xylene	1440	1690	85.2%	1430	1690	84.6%	0.7%
o-Xylene	625	700	89.3%	628	700	89.7%	0.5%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	93.6%	93.1%
Bromobenzene	97.0%	96.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-080910
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080910
LIMS ID: 10-18433
Matrix: Soil
Data Release Authorized:
Reported: 08/16/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/09/10 07:52
LCSD: 08/09/10 08:17
Instrument/Analyst LCS: PID3/MH
LCSD: PID3/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	46.6	50.0	93.2%	46.1	50.0	92.2%	1.1%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	102%	100%
Bromobenzene	103%	102%

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0809S1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project No.: LORA LAKE

Date Analyzed : 08/09/10 Matrix: SOIL

Time Analyzed : 0841 Instrument ID : PID3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS0809S1	LCS0809	08/09/10
02	LCSD0809S1	LCSD0809	08/09/10
03	PSB22-17-19-	RG58E	08/09/10
04	PSB22-19-20-	RG58F	08/09/10
05	PSB23-14-16.	RG58K	08/09/10
06	PSB23-16.5-1	RG58L	08/09/10
07	PSB24-14-16-	RG58R	08/09/10
08	PSB24-16-17-	RG58S	08/09/10
09	PSB9A-11-13.	RG78A	08/09/10
10	PSB9A-1.5-2-	RG78B	08/09/10
11	PSB9A-4-6-07	RG78D	08/09/10
12	PSB10-0-0.5-	RG78F	08/09/10
13	PSB10-2-4-07	RG78H	08/09/10
14	PSB10-4-6-07	RG78I	08/09/10
15	PSB10-8.5-10	RG78J	08/09/10
16	PSB10-8.5-10	RG78JMS	08/09/10
17	PSB10-8.5-10	RG78JMSD	08/09/10
18	PSB10-14-15-	RG78K	08/09/10
19	PSB10-20-25-	RG78L	08/09/10
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: MB-080910
METHOD BLANK

Lab Sample ID: MB-080910
LIMS ID: 10-18433
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/09/10 08:41
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
179601-23-1	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

			GAS ID
Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	90.4%
Bromobenzene	93.4%

Gasoline Surrogate Recovery

Trifluorotoluene	98.9%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

6a
GAS INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

Instrument/Det: PID3.I/RTX 502-2 FID Project: LORA LAKE

Calibration Date: 28-JUL-2010 SDG No.: RG58-RG78

Gas Range	RF1 0.1	RF2 0.25	RF3 1.0	RF4 2.5	RF5 5.0	RF6 20	Ave RF	%RSD
WA Gas	1009250	772696	761867	782843	800745	839442	827807	11.2
AK Gas	1342560	1066876	1050254	1042480	1063396	1225137	1131784	10.9
NW Gas	1102210	829838	811111	828987	844316	875713	882029	12.5
8015Gas	1959390	1600162	1564234	1551602	1571254	1738000	1664107	9.6
$TFT(Surr)	78.13636	73.54545	71.97015	70.35000	70.48120	69.03933		
	70.30000						71.97607	4.271
$BB(Surr)	48.72727	43.22727	42.49254	41.18000	42.06767	41.53933		
	42.23000						43.06630	5.994

<- Indicates %RSD outside limits
Surrogate areas are not included in RF calculation.

Quant Ranges : WA Gas Toluene - nC12
AK Gas nC6 - nC10
NW Gas Toluene - Naphthalene
8015 Gas 2-Methylpentane - 1,2,4-Trimethylbenzene

Calibration Files	Analysis Time
0728a012.d	28-JUL-2010 11:42
0728a004.d	28-JUL-2010 08:07
0728a005.d	28-JUL-2010 08:31
0728a006.d	28-JUL-2010 08:56
0728a007.d	28-JUL-2010 09:20
0728a008.d	28-JUL-2010 09:45

Surr Calibration Files	Analysis Time
0629a005.d	29-JUN-2010 07:59
0629a006.d	29-JUN-2010 08:24
0629a007.d	29-JUN-2010 08:48
0629a008.d	29-JUN-2010 09:12
0629a009.d	29-JUN-2010 09:37
0629a010.d	29-JUN-2010 10:01
0629a011.d	29-JUN-2010 10:26

BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project: LORA LAKE

Instrument/Det: PID3 /RTX 502-2 PID Calibration Date: 06/29/10

	CALIBRATION FACTORS						
COMPOUND	0.25	0.5	5	25	50	MEAN	%RSD
Benzene	1564	1462	1257	1240	1256		
Toluene	1608	1252	1288	1275	1275		
Ethylbenzene	1404	1420	1164	1185	1190		
M/P-Xylene	1614	1381	1314	1300	1302		
O-Xylene	1352	1232	1295	1269	1282		
MTBE	464	288	367	346	348		
TFT(Surr)	243	220	213	214	217		
BB(Surr)	496	451	434	440	456		

Calibration Files

/chem3/pid3.i/20100629-1.b/0629a005.d
/chem3/pid3.i/20100629-1.b/0629a006.d
/chem3/pid3.i/20100629-1.b/0629a007.d
/chem3/pid3.i/20100629-1.b/0629a008.d
/chem3/pid3.i/20100629-1.b/0629a009.d
/chem3/pid3.i/20100629-1.b/0629a010.d
/chem3/pid3.i/20100629-1.b/0629a011.d

BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project: LORA LAKE

Instrument/Det: PID3 /RTX 502-2 PID Calibration Date: 06/29/10

	CALIBRATION FACTORS						
COMPOUND	100	200	MEAN	%RSD			
Benzene	1220	1254	1322	10.16			
Toluene	1247	1294	1320	9.72			
Ethylbenzene	1152	1183	1242	9.38			
M/P-Xylene	1247	1268	1346	9.29			
O-Xylene	1256	1307	1285	3.02			
MTBE	334	343	356	15.04			
TFT(Surr)	212	219	220	4.94			
BB(Surr)	450	463	456	4.41			

GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 28-JUL-2010 SDG No.: RG58-RG78

Lab File Name: 0728a010.d Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D	
WAGas (Tol-C12)	2493506	3.01	2.50	20.5	<-
AKGas (C6-C10)	2858408	2.53	2.50	1.0	
NWGas (Tol-Nap)	2556570	2.90	2.50	15.9	
8015B (2MP-TMB)	3739886	2.25	2.50	-10.1	

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: LANDAU ASSOCIATES

ICal Date: 28-JUL-2010
Project: PROJECT STRIKER

CCal Date: 28-JUL-2010
SDG No.: RG63

Lab File Name: 0728a010.d
Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	85915	99.7	100.0	-0.3
Bromoflrbenz	33856	101.1	100.0	1.1

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID Calibration Date: 08/09/10

Init. Calib. Date(s): 06/29/10 Calib. File: 0809A002.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.69	7.65	7.79	23.45	25.00	-6.2
Toluene	10.27	10.24	10.38	22.92	25.00	-8.3
Ethylbenzene	12.81	12.77	12.91	22.17	25.00	-11.3
M/P-Xylene	12.94	12.91	13.05	44.92	50.00	-10.2
O-Xylene	13.72	13.71	13.81	22.56	25.00	-9.8
MTBE	5.29	5.24	5.38	24.98	25.00	-0.1
TFT(Surr)	8.41	8.37	8.51	93.53	100.0	-6.5
BB(Surr)	14.89	14.84	14.98	94.22	100.0	-5.8

FORM VII BETX

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 09-AUG-2010 SDG No.: RG58-RG78

Lab File Name: 0809a003.d Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1840855	2.22	2.50	-11.0
AKGas (C6-C10)	2410004	2.13	2.50	-14.8
NWGas (Tol-Nap)	1964102	2.23	2.50	-10.9
8015B (2MP-TMB)	3571983	2.15	2.50	-14.1

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 09-AUG-2010 SDG No.: RG58-RG78

Lab File Name: 0809a003.d Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	88646	103.3	100.0	3.3
Bromoflrbenz	38121	103.4	100.0	3.4

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID Calibration Date: 08/09/10

Init. Calib. Date(s): 06/29/10 Calib. File: 0809A012.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.71	7.65	7.79	25.22	25.00	0.9
Toluene	10.31	10.24	10.38	24.37	25.00	-2.5
Ethylbenzene	12.84	12.77	12.91	23.87	25.00	-4.5
M/P-Xylene	12.98	12.91	13.05	47.30	50.00	-5.4
O-Xylene	13.76	13.71	13.81	24.43	25.00	-2.3
MTBE	5.30	5.24	5.38	26.13	25.00	4.5
TFT(Surr)	8.44	8.37	8.51	91.83	100.0	-8.2
BB(Surr)	14.91	14.84	14.98	96.66	100.0	-3.3

FORM VII BETX

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 09-AUG-2010 SDG No.: RG58-RG78

Lab File Name: 0809a013.d Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	2054503	2.48	2.50	-0.7
AKGas (C6-C10)	2717390	2.40	2.50	-4.0
NWGas (Tol-Nap)	2171923	2.46	2.50	-1.5
8015B (2MP-TMB)	4042380	2.43	2.50	-2.8

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 09-AUG-2010 SDG No.: RG58-RG78

Lab File Name: 0809a013.d Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	91799	106.5	100.0	6.5
Bromoflrbenz	37426	110.2	100.0	10.2

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID Calibration Date: 08/09/10

Init. Calib. Date(s): 06/29/10 Calib. File: 0809A024.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.72	7.65	7.79	5.163	5.326	-3.0
Toluene	10.31	10.24	10.38	69.94	71.86	-2.6
Ethylbenzene	12.84	12.77	12.91	21.37	22.91	-6.7
M/P-Xylene	12.98	12.91	13.05	76.45	84.64	-9.6
O-Xylene	13.76	13.71	13.81	33.48	35.03	-4.4
MTBE	5.31	5.24	5.38	227.0	242.4	-6.3
TFT(Surr)	8.44	8.37	8.51	93.88	100.0	-6.1
BB(Surr)	14.91	14.84	14.98	96.29	100.0	-3.7

FORM VII BETX

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 09-AUG-2010 SDG No.: RG58-RG78

Lab File Name: 0809a024.d Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1944532	2.35	2.50	-6.0
AKGas (C6-C10)	2595428	2.29	2.50	-8.3
NWGas (Tol-Nap)	2053311	2.33	2.50	-6.9
8015B (2MP-TMB)	3873074	2.33	2.50	-6.9

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 09-AUG-2010 SDG No.: RG58-RG78

Lab File Name: 0809a024.d Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	87843	102.7	100.0	2.7
Bromoflrbenz	38342	103.7	100.0	3.7

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID Calibration Date: 08/09/10

Init. Calib. Date(s): 06/29/10 Calib. File: 0809A035.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.72	7.65	7.79	5.173	5.326	-2.9
Toluene	10.31	10.24	10.38	69.43	71.86	-3.4
Ethylbenzene	12.84	12.77	12.91	21.25	22.91	-7.2
M/P-Xylene	12.98	12.91	13.05	75.74	84.64	-10.5
O-Xylene	13.76	13.71	13.81	32.76	35.03	-6.5
MTBE	5.31	5.24	5.38	222.7	242.4	-8.1
TFT(Surr)	8.44	8.37	8.51	90.00	100.0	-10.0
BB(Surr)	14.91	14.84	14.98	93.36	100.0	-6.6

FORM VII BETX

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 09-AUG-2010 SDG No.: RG58-RG78

Lab File Name: 0809a035.d Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1873948	2.26	2.50	-9.5
AKGas (C6-C10)	2469808	2.18	2.50	-12.7
NWGas (Tol-Nap)	1979464	2.24	2.50	-10.2
8015B (2MP-TMB)	3704465	2.23	2.50	-11.0

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010
Project: LORA LAKE

CCal Date: 09-AUG-2010
SDG No.: RG58-RG78

Lab File Name: 0809a035.d
Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	83511	96.9	100.0	-3.1
Bromoflrbenz	36034	101.0	100.0	1.0

FORM VII-Surr

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58 Project: LORA LAKE

Instrument ID: PID3 GC Detector: RTX 502-2 PID

Run Date: 06/29/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.44 S2 : 14.91

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01		RINSE	06/29/10	0548				
02		RT+BCAL 1	06/29/10	0613	8.42		14.90	
03		GCAL 1	06/29/10	0637	8.43		14.91	
04		RINSE	06/29/10	0735				
05		BETX .25	06/29/10	0759	8.42		14.89	
06		BETX .5	06/29/10	0824	8.43		14.90	
07		BETX 5	06/29/10	0848	8.43		14.91	
08		BETX 25	06/29/10	0912	8.44		14.91	
09		BETX 50	06/29/10	0937	8.44		14.91	
10		BETX 100	06/29/10	1001	8.44		14.91	
11		BETX 200	06/29/10	1026	8.44		14.91	
12		BETX ICV	06/29/10	1050	8.44		14.91	
13		GCAL 2	06/29/10	1145	8.37		14.87	
14		LCS0629	06/29/10	1210	8.42		14.89	
15		LCSD0629	06/29/10	1234	8.43		14.90	
16		MB0629	06/29/10	1259	8.43		14.91	
17	ZZZZZ	ZZZZZ	06/29/10	1344	8.38		14.88	
18	ZZZZZ	ZZZZZ	06/29/10	1408	8.42		14.90	
19	ZZZZZ	ZZZZZ	06/29/10	1433	8.43		14.90	
20	ZZZZZ	ZZZZZ	06/29/10	1458	8.43		14.91	
21	ZZZZZ	ZZZZZ	06/29/10	1522	8.43		14.91	
22	ZZZZZ	ZZZZZ	06/29/10	1547	8.44		14.91	
23	ZZZZZ	ZZZZZ	06/29/10	1611	8.44		14.91	
24		RINSE	06/29/10	1636				
25		BCAL 3	06/29/10	1700	8.44		14.91	
26		GCAL 2	06/29/10	1725	8.44		14.91	

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)

S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58 Project: LORA LAKE

Instrument ID: PID3 GC Detector: RTX 502-2 FID

Run Date: 07/28/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.44 S2 : 14.91

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01		ZZZZZ	07/28/10	0653			14.86	
02		RT+BCAL 1	07/28/10	0718	8.41		14.89	
03		ZZZZZ	07/28/10	0742	8.43		14.90	
04		GAS .25	07/28/10	0807	8.43		14.91	
05		GAS 1	07/28/10	0831	8.44		14.91	
06		GAS 2.5	07/28/10	0856	8.44		14.91	
07		GAS 5	07/28/10	0920	8.44		14.91	
08		GAS 20	07/28/10	0945	8.44		14.91	
09		ZZZZZ	07/28/10	1009			14.84	
10		GAS ICV	07/28/10	1034	8.44		14.91	
11		ZZZZZ	07/28/10	1117			14.93	
12		GAS .1	07/28/10	1142	8.43		14.90	

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)

S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project: LORA LAKE

Instrument ID: PID3 GC Detector: RTX 502-2 PID

Run Date: 08/09/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.44 S2 : 14.91

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01	ZZZZZ	ZZZZZ	08/09/10	0639			14.86	
02	RT+BCAL 1	RT+BCAL 1	08/09/10	0703	8.41		14.89	
03	GCAL 1	GCAL 1	08/09/10	0728	8.43		14.90	
04	LCS0809S1	LCS0809	08/09/10	0752	8.44		14.91	
05	LCSD0809S1	LCSD0809	08/09/10	0817	8.44		14.91	
06	MB0809S1	MB0809	08/09/10	0841	8.44		14.91	
07	ZZZZZ	ZZZZZ	08/09/10	0940	8.37*		14.87	
08	ZZZZZ	ZZZZZ	08/09/10	1005	8.42		14.90	
09	ZZZZZ	ZZZZZ	08/09/10	1030	8.43		14.90	
10	ZZZZZ	ZZZZZ	08/09/10	1054	8.43		14.91	
11	ZZZZZ	ZZZZZ	08/09/10	1119				
12	BCAL 2	BCAL 2	08/09/10	1144	8.44		14.91	
13	GCAL 2	GCAL 2	08/09/10	1208	8.44		14.91	
14	ZZZZZ	ZZZZZ	08/09/10	1233	8.44		14.91	
15	PSB22-17-19-	RG58E	08/09/10	1258	8.44		14.91	
16	PSB22-19-20-	RG58F	08/09/10	1322	8.44		14.91	
17	PSB23-14-16.	RG58K	08/09/10	1347	8.44		14.91	
18	PSB23-16.5-1	RG58L	08/09/10	1412	8.44		14.91	
19	PSB24-14-16-	RG58R	08/09/10	1436	8.44		14.91	
20	PSB24-16-17-	RG58S	08/09/10	1501	8.44		14.91	
21	PSB9A-11-13.	RG78A	08/09/10	1525	8.44		14.91	
22	PSB9A-1.5-2-	RG78B	08/09/10	1550	8.44		14.91	
23	ZZZZZ	ZZZZZ	08/09/10	1615				
24	BCAL 3	GCAL 3	08/09/10	1639	8.44		14.91	
25	PSB9A-4-6-07	RG78D	08/09/10	1704	8.44		14.91	
26	PSB10-0-0.5-	RG78F	08/09/10	1728	8.44		14.91	
27	PSB10-2-4-07	RG78H	08/09/10	1753	8.44		14.91	
28	PSB10-4-6-07	RG78I	08/09/10	1817	8.44		14.91	
29	PSB10-8.5-10	RG78J	08/09/10	1842	8.44		14.91	
30	PSB10-8.5-10	RG78JMS	08/09/10	1907	8.44		14.91	
31	PSB10-8.5-10	RG78JMSD	08/09/10	1931	8.44		14.91	
32	PSB10-14-15-	RG78K	08/09/10	1956	8.44		14.91	

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)

S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG58-RG78 Project: LORA LAKE

Instrument ID: PID3 GC Detector: RTX 502-2 PID

Run Date: 08/09/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

	METHOD SURROGATE RT S1 : 8.44 S2 : 14.91							
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01	PSB10-20-25-	RG78L	08/09/10	2020	8.44		14.91	
02	ZZZZZ	ZZZZZ	08/09/10	2045				
03	BCAL 4	GCAL 4	08/09/10	2109	8.44		14.91	

		QC LIMITS
S1	= TFT(Surr)	(+/- 0.07 MINUTES)
S2	= BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB9A-2-4-073010
SAMPLE

Lab Sample ID: RG78C
LIMS ID: 10-18435
Matrix: Soil
Data Release Authorized:
Reported: 08/16/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/12/10 18:24
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 160 mg-dry-wt
Percent Moisture: 4.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	7.8	< 7.8 U
108-88-3	Toluene	7.8	< 7.8 U
100-41-4	Ethylbenzene	7.8	< 7.8 U
179601-23-1	m,p-Xylene	16	< 16 U
95-47-6	o-Xylene	7.8	< 7.8 U

			GAS ID
Gasoline Range Hydrocarbons	3.1	< 3.1 U	---

BETX Surrogate Recovery

Trifluorotoluene	92.9%
Bromobenzene	95.8%

Gasoline Surrogate Recovery

Trifluorotoluene	97.3%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB9A-0-0.5-073010
SAMPLE

Lab Sample ID: RG78E
LIMS ID: 10-18437
Matrix: Soil
Data Release Authorized:
Reported: 08/16/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/12/10 18:48
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 130 mg-dry-wt
Percent Moisture: 3.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	9.8	< 9.8 U
108-88-3	Toluene	9.8	< 9.8 U
100-41-4	Ethylbenzene	9.8	< 9.8 U
179601-23-1	m,p-Xylene	20	< 20 U
95-47-6	o-Xylene	9.8	< 9.8 U

			GAS ID
Gasoline Range Hydrocarbons	**3.9**	**8.7**	**GRO**

BETX Surrogate Recovery

Trifluorotoluene	91.9%
Bromobenzene	97.2%

Gasoline Surrogate Recovery

Trifluorotoluene	96.3%
Bromobenzene	99.1%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB10-1.5-2-073010
SAMPLE

Lab Sample ID: RG78G
LIMS ID: 10-18439
Matrix: Soil
Data Release Authorized:
Reported: 08/16/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/12/10 19:12
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 140 mg-dry-wt
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	8.9	< 8.9 U
108-88-3	Toluene	8.9	< 8.9 U
100-41-4	Ethylbenzene	8.9	< 8.9 U
179601-23-1	m,p-Xylene	18	< 18 U
95-47-6	o-Xylene	8.9	< 8.9 U

			GAS ID
	Gasoline Range Hydrocarbons	3.6	< 3.6 U ---

BETX Surrogate Recovery

Trifluorotoluene	92.6%
Bromobenzene	96.0%

Gasoline Surrogate Recovery

Trifluorotoluene	97.8%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-081210
LAB CONTROL SAMPLE

Lab Sample ID: LCS-081210
LIMS ID: 10-18435
Matrix: Soil
Data Release Authorized:
Reported: 08/16/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/12/10 08:01
LCSD: 08/12/10 08:26
Instrument/Analyst LCS: PID3/MH
LCSD: PID3/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	110	105	105%	108	105	103%	1.8%
Toluene	1420	1440	98.6%	1400	1440	97.2%	1.4%
Ethylbenzene	440	460	95.7%	428	460	93.0%	2.8%
m,p-Xylene	1560	1690	92.3%	1540	1690	91.1%	1.3%
o-Xylene	672	700	96.0%	662	700	94.6%	1.5%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	97.1%	95.1%
Bromobenzene	97.9%	95.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-081210
LAB CONTROL SAMPLE

Lab Sample ID: LCS-081210
LIMS ID: 10-18435
Matrix: Soil
Data Release Authorized:
Reported: 08/16/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/12/10 08:01
LCSD: 08/12/10 08:26
Instrument/Analyst LCS: PID3/MH
LCSD: PID3/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	47.9	50.0	95.8%	44.8	50.0	89.6%	6.7%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	101%	99.5%
Bromobenzene	102%	98.1%

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0812S1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG78 Project No.: LORA LAKE

Date Analyzed : 08/12/10 Matrix: SOIL

Time Analyzed : 0850 Instrument ID : PID3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS0812S1	LCS0812	08/12/10
02	LCSD0812S1	LCSD0812	08/12/10
03	PSB9A-2-4-07	RG78C	08/12/10
04	PSB9A-0-0.5-	RG78E	08/12/10
05	PSB10-1.5-2-	RG78G	08/12/10
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod **Sample ID: MB-081210**
TPHG by Method NWTPHG **METHOD BLANK**

Lab Sample ID: MB-081210
LIMS ID: 10-18435
Matrix: Soil
Data Release Authorized:
Reported: 08/16/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/12/10 08:50
Instrument/Analyst: PID3/MH

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
179601-23-1	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

			GAS ID
Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	90.2%
Bromobenzene	92.9%

Gasoline Surrogate Recovery

Trifluorotoluene	95.0%
Bromobenzene	95.8%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG78 Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID Calibration Date: 08/12/10

Init. Calib. Date(s): 06/29/10 Calib. File: 0812A002.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.69	7.64	7.78	25.08	25.00	0.3
Toluene	10.27	10.24	10.38	24.82	25.00	-0.7
Ethylbenzene	12.80	12.70	12.84	24.00	25.00	-4.0
M/P-Xylene	12.94	12.91	13.05	48.73	50.00	-2.5
O-Xylene	13.72	13.71	13.81	24.56	25.00	-1.8
MTBE	5.29	12.77	12.91	26.86	25.00	7.4
TFT(Surr)	8.41	8.37	8.51	96.15	100.0	-3.8
BB(Surr)	14.89	14.84	14.98	97.23	100.0	-2.8

FORM VII BETX

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 12-AUG-2010 SDG No.: RG78

Lab File Name: 0812a003.d Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1948641	2.35	2.50	-5.8
AKGas (C6-C10)	2603703	2.30	2.50	-8.0
NWGas (Tol-Nap)	2074055	2.35	2.50	-5.9
8015B (2MP-TMB)	3844742	2.31	2.50	-7.6

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 12-AUG-2010 SDG No.: RG78

Lab File Name: 0812a003.d Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	90091	104.9	100.0	4.9
Bromoflrbenz	36332	106.3	100.0	6.3

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG78 Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID Calibration Date: 08/12/10

Init. Calib. Date(s): 06/29/10 Calib. File: 0812A014.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.71	7.64	7.78	25.92	25.00	3.7
Toluene	10.30	10.24	10.38	25.27	25.00	1.1
Ethylbenzene	12.84	12.70	12.84	24.20	25.00	-3.2
M/P-Xylene	12.98	12.91	13.05	49.13	50.00	-1.7
O-Xylene	13.75	13.71	13.81	25.28	25.00	1.1
MTBE	5.30	12.77	12.91	26.67	25.00	6.7
TFT(Surr)	8.44	8.37	8.51	95.38	100.0	-4.6
BB(Surr)	14.91	14.84	14.98	98.39	100.0	-1.6

FORM VII BETX

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 12-AUG-2010 SDG No.: RG78

Lab File Name: 0812a015.d Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1896198	2.29	2.50	-8.4
AKGas (C6-C10)	2537770	2.24	2.50	-10.3
NWGas (Tol-Nap)	2005445	2.27	2.50	-9.1
8015B (2MP-TMB)	3767056	2.26	2.50	-9.5

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 12-AUG-2010 SDG No.: RG78

Lab File Name: 0812a015.d Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	84973	98.2	100.0	-1.8
Bromoflrbenz	35744	100.7	100.0	0.7

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG78 Project No.: LORA LAKE

Instrument/Det: PID3/RTX 502-2 PID Calibration Date: 08/12/10

Init. Calib. Date(s): 06/29/10 Calib. File: 0812A036.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Benzene	7.71	7.64	7.78	25.76	25.00	3.0
Toluene	10.31	10.24	10.38	24.66	25.00	-1.4
Ethylbenzene	12.84	12.77	12.91	23.92	25.00	-4.3
M/P-Xylene	12.98	12.91	13.05	47.17	50.00	-5.7
O-Xylene	13.76	13.71	13.81	24.52	25.00	-1.9
MTBE	5.30	5.23	5.37	26.83	25.00	7.3
TFT(Surr)	8.44	8.37	8.51	86.99	100.0	-13.0
BB(Surr)	14.91	14.84	14.98	94.76	100.0	-5.2

FORM VII BETX

7a

GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 12-AUG-2010 SDG No.: RG78

Lab File Name: 0812a037.d Inst/Det: PID3.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1854166	2.24	2.50	-10.4
AKGas (C6-C10)	2366898	2.09	2.50	-16.3
NWGas (Tol-Nap)	1959482	2.22	2.50	-11.1
8015B (2MP-TMB)	3572052	2.15	2.50	-14.1

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 12-AUG-2010 SDG No.: RG78

Lab File Name: 0812a037.d Inst/Det: PID3.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	84470	98.5	100.0	-1.5
Bromoflrbenz	36074	102.8	100.0	2.8

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG78 Project: LORA LAKE

Instrument ID: PID3 GC Detector: RTX 502-2 PID

Run Date: 08/12/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.44 S2 : 14.91

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01	ZZZZZ	ZZZZZ	08/12/10	0648				
02	RT+BCAL 1	RT+BCAL 1	08/12/10	0712	8.41		14.89	
03	GCAL 1	GCAL 1	08/12/10	0737	8.42		14.90	
04	LCS0812S1	LCS0812	08/12/10	0801	8.43		14.90	
05	LCSD0812S1	LCSD0812	08/12/10	0826	8.44		14.91	
06	MB0812S1	MB0812	08/12/10	0850	8.44		14.91	
07	ZZZZZ	ZZZZZ	08/12/10	0935	8.38		14.88	
08	ZZZZZ	ZZZZZ	08/12/10	1011	8.38		14.88	
09	ZZZZZ	ZZZZZ	08/12/10	1036	8.42		14.90	
10	ZZZZZ	ZZZZZ	08/12/10	1100	8.43		14.90	
11	ZZZZZ	ZZZZZ	08/12/10	1125	8.44		14.91	
12	ZZZZZ	ZZZZZ	08/12/10	1150	8.44		14.91	
13	ZZZZZ	ZZZZZ	08/12/10	1214				
14	BCAL 2	BCAL 2	08/12/10	1239	8.44		14.91	
15	GCAL 2	GCAL 2	08/12/10	1304	8.44		14.91	
16	ZZZZZ	ZZZZZ	08/12/10	1328	8.44		14.91	
17	ZZZZZ	ZZZZZ	08/12/10	1353	8.44		14.91	
18	ZZZZZ	ZZZZZ	08/12/10	1417	8.44		14.91	
19	ZZZZZ	ZZZZZ	08/12/10	1442	8.44		14.91	
20	ZZZZZ	ZZZZZ	08/12/10	1507	8.44		14.91	
21	ZZZZZ	ZZZZZ	08/12/10	1531	8.44		14.91	
22	ZZZZZ	ZZZZZ	08/12/10	1556	8.44		14.91	
23	ZZZZZ	ZZZZZ	08/12/10	1621	8.44		14.91	
24	ZZZZZ	ZZZZZ	08/12/10	1645	8.44		14.91	
25	ZZZZZ	ZZZZZ	08/12/10	1710				
26	ZZZZZ	ZZZZZ	08/12/10	1735	8.44		14.91	
27	ZZZZZ	ZZZZZ	08/12/10	1759	8.44		14.91	
28	PSB9A-2-4-07	RG78C	08/12/10	1824	8.44		14.91	
29	PSB9A-0-0.5-	RG78E	08/12/10	1848	8.44		14.91	
30	PSB10-1.5-2-	RG78G	08/12/10	1912	8.44		14.91	
31	ZZZZZ	ZZZZZ	08/12/10	1937	8.44		14.91	
32	ZZZZZ	ZZZZZ	08/12/10	2002	8.44		14.91	

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)
S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG78 Project: LORA LAKE

Instrument ID: PID3 GC Detector: RTX 502-2 PID

Run Date: 08/12/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.44 S2 : 14.91

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01	ZZZZZ	ZZZZZ	08/12/10	2026	8.44		14.91	
02	ZZZZZ	ZZZZZ	08/12/10	2051	8.44		14.91	
03	ZZZZZ	ZZZZZ	08/12/10	2116				
04	BCAL 4	BCAL 4	08/12/10	2140	8.44		14.91	
05	GCAL 4	GCAL 4	08/12/10	2205	8.44		14.91	

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)
S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

Metals Analysis
Report and Summary QC Forms

ARI Job ID: RG78

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG78

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
PSB9A-11-13.5-0730	RG78A	10-18433	
PSB9A-1.5-2-073010	RG78B	10-18434	
PSB9A-2-4-073010	RG78C	10-18435	
PSB9A-4-6-073010	RG78D	10-18436	
PSB9A-0-0.5-073010	RG78E	10-18437	
PSB10-0-0.5-073010	RG78F	10-18438	
PSB10-1.5-2-073010	RG78G	10-18439	
PSB10-2-4-073010	RG78H	10-18440	
PSB10-4-6-073010	RG78I	10-18441	
PSB10-8.5-10-07301	RG78J	10-18442	
PSB10-8.5-10-07301D	RG78JDUP	10-18442	
PSB10-8.5-10-07301S	RG78JSPK	10-18442	
PSB10-14-15-073010	RG78K	10-18443	
PBS	RG78MB1	10-18443	
LCSS	RG78MB1SPK	10-18443	
LCSS	RG78REF1	10-18443	
PSB10-20-25-073010	RG78L	10-18444	
PSB9-8.5-9.5-07301	RG78S	10-18451	

Were ICP interelement corrections applied ?	Yes/No	YES
Were ICP background corrections applied ?	Yes/No	YES
If yes - were raw data generated before application of background corrections ?	Yes/No	NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: J Marlton, met Spec. Name: Jay Kuhn

Date: 8.13.10 Title: Inorganic Manager

ANALYTICAL RESOURCES INCORPORATED

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TOTAL METALS
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Sample ID: PSB9A-11-13.5-073010
SAMPLE

Lab Sample ID: RG78A
LIMS ID: 10-18433
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 82.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	3	3	U
3050B	08/10/10	6010B	08/11/10	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: PSB9A-1.5-2-073010
SAMPLE

Lab Sample ID: RG78B
LIMS ID: 10-18434
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 97.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	2	2	U
3050B	08/10/10	6010B	08/11/10	7439-92-1	Lead	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: PSB9A-2-4-073010
SAMPLE

Lab Sample ID: RG78C
LIMS ID: 10-18435
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 94.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/10/10	6010B	08/11/10	7439-92-1	Lead	2	2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: PSB9A-4-6-073010
SAMPLE

Lab Sample ID: RG78D
LIMS ID: 10-18436
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 92.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/10/10	6010B	08/11/10	7439-92-1	Lead	2	2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: PSB9A-0-0.5-073010
SAMPLE

Lab Sample ID: RG78E
LIMS ID: 10-18437
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 95.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	**7440-38-2**	**Arsenic**	5	**8**	
3050B	08/10/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**46**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: PSB10-0-0.5-073010
SAMPLE

Lab Sample ID: RG78F
LIMS ID: 10-18438
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 89.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/10/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**43**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: PSB10-1.5-2-073010
SAMPLE

Lab Sample ID: RG78G
LIMS ID: 10-18439
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 94.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/10/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**35**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: PSB10-2-4-073010
SAMPLE

Lab Sample ID: RG78H
LIMS ID: 10-18440
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 91.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/10/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**36**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: PSB10-4-6-073010
SAMPLE

Lab Sample ID: RG78I
LIMS ID: 10-18441
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 93.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/10/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**33**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB10-8.5-10-073010
SAMPLE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 87.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	**7440-38-2**	**Arsenic**	6	**7**	
3050B	08/10/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**29**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: PSB10-8.5-10-073010 DUPLICATE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	7	7	0.0%	+/- 6	L
Lead	6010B	29	33	12.9%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB10-8.5-10-073010
MATRIX SPIKE

Lab Sample ID: RG78J
LIMS ID: 10-18442
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	7	204	223	88.3%	
Lead	6010B	29	217	223	84.3%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: PSB10-14-15-073010
SAMPLE

Lab Sample ID: RG78K
LIMS ID: 10-18443
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 95.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/10/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: PSB10-20-25-073010
SAMPLE

Lab Sample ID: RG78L
LIMS ID: 10-18444
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 83.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	6	6	U
3050B	08/10/10	6010B	08/11/10	7439-92-1	Lead	2	2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: PSB9-8.5-9.5-073010
SAMPLE

Lab Sample ID: RG78S
LIMS ID: 10-18451
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 92.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/10/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: STD REFERENCE
ERA D053540

Lab Sample ID: RG78SRM
LIMS ID: 10-18443
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Analysis Method	Analysis Date	mg/kg-dry	Certified Value	Advisory Range
Arsenic	6010B	08/11/10	119	132	106-157
Lead	6010B	08/11/10	114	130	106-154

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: RG78MB
LIMS ID: 10-18443
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/10/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/10/10	6010B	08/11/10	7439-92-1	Lead	2	2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: RG78LCS
LIMS ID: 10-18443
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG78-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	188	200	94.0%	
Lead	6010B	185	200	92.5%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

UNITS: ug/L

SDG: RG78

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	ICP	IP081122	2000.0	2016.86	100.8	2000.0	1982.87	99.1	1916.52	95.8	1889.30	94.5	1854.09	92.7	1823.61	91.2
Lead	PB	ICP	IP081122	2000.0	2011.07	100.6	2000.0	1965.24	98.3	1917.23	95.9	1872.41	93.6	1837.82	91.9	1830.33	91.5

RG78.09282

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

UNITS:ug/L

SDG: RG78

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Arsenic	AS	ICP	IP081122	2000.0	1817.06	90.9										
Lead	PB	ICP	IP081122	2000.0	1828.70	91.4										

RG78 00283

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

UNITS: ug/L

SDG: RG78

ANALYTE	EL	M	RUN	CRA/I TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Arsenic	AS	ICP	IP081122	50.0	48.70	**97.4**										
Lead	PB	ICP	IP081122	20.0	19.64	**98.2**										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG78

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Arsenic	AS	ICP	IP081122	10.0	50.0	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Lead	PB	ICP	IP081122	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U

RG78 00285

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG78

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Arsenic	AS	ICP	IP081122	10.0	50.0	50.0	U										
Lead	PB	ICP	IP081122	3.0	20.0	20.0	U										

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

ICS SOURCE: I.V.

PROJECT: Lora Lake RI

RUNID: IP081122

SDG: RG78

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	198987.1	199636.4	**99.8**						
Antimony		1000	-4.5	1078.0	**107.8**						
Arsenic		1000	-4.9	996.5	**99.7**						
Barium		1000	1.6	966.4	**96.6**						
Beryllium		1000	0.0	999.8	**100.0**						
Boron			14.6	16.5							
Cadmium		1000	0.9	1001.2	**100.1**						
Calcium	100000	100000	96160.5	96308.5	**96.3**						
Chromium		1000	2.3	971.8	**97.2**						
Cobalt		1000	0.7	916.5	**91.7**						
Copper		1000	0.4	1053.2	**105.3**						
Iron	200000	200000	192424.2	192734.5	**96.4**						
Lead		1000	5.2	942.3	**94.2**						
Magnesium	100000	100000	97976.8	100385.3	**100.4**						
Manganese		1000	-0.6	968.0	**96.8**						
Molybdenum			1.8	2.4							
Nickel		1000	-1.4	945.2	**94.5**						
Potassium			-57.4	-41.3							
Selenium		1000	-18.9	987.5	**98.8**						
Silicon			-4.1	0.9							
Silver		1000	0.4	1013.5	**101.4**						
Sodium			18.6	25.9							
Strontium			3.7	4.2							
Thallium		1000	-28.3	922.0	**92.2**						
Tin			-9.6	-10.0							
Titanium			0.6	-0.5							
Vanadium		1000	-0.5	985.6	**98.6**						
Zinc		1000	-1.0	915.8	**91.6**						

RG78-00281

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG78 UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	ICP	OPTIMA ICP 1	188.98		10	50.0	4/1/2010	30000.0	7/12/2010
Lead	PB	ICP	OPTIMA ICP 1	220.35		3	20.0	4/1/2010	300000.0	7/12/2010

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

IEC DATE: 7/6/2010

SDG: RG78

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.2355440	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	17.0027000	0.0000000	0.1572420
Arsenic	188.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.2352700	0.8180370	0.0000000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1428370	0.0000000	0.0000000	0.0470802
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	1.8037800	0.0000000	0.0000000	0.0000000	0.0000000	0.0974417	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0177217	0.0000000	-0.1961840	0.0000000	0.0000000	-0.0190915
Cobalt	228.62	0.0000000	0.0000000	0.2779700	0.0000000	0.0000000	0.0000000	0.0000000	-0.0353624	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3251790	-0.0447468	0.0000000	-0.0890304
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.7705580	0.0000000	0.0000000
Lead	220.35	-0.2816010	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.1815720	-2.2074600	0.7896340	0.0656631
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.1855000	-0.9151660	0.0000000	0.5909920
Manganese	257.61	0.0066850	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0905061	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3014560	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.2017550	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1700530
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.9846030	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0079591	0.0000000	0.0000000	0.0000000	0.0000000	-0.0388957
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	6.6097600	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	7.4722900	0.3242200	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	-0.0541080	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0390012	0.0000000	0.0000000	0.2355950	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-6.3540200	0.0000000	0.1175110
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-0.0274712	0.0000000	0.0000000	0.7506560	0.0000000	0.0000000

RG78 00285

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

IEC DATE: 7/6/2010

SDG: RG78

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.0000000	0.0000000	21.2545000	0.0000000	0.0000000	0.0000000	2.8125800	0.0000000	15.0921000	0.0000000
Antimony	206.84	0.0000000	0.0000000	1.0344800	-0.3070020	0.0000000	0.0000000	-1.4160400	0.0000000	-3.8439000	0.0000000
Arsenic	188.98	0.0000000	0.0000000	2.5244400	0.0000000	0.0000000	0.0000000	-2.0028700	0.0000000	0.2321020	0.0000000
Barium	233.53	0.0000000	0.0000000	-0.0807140	0.1230910	0.0000000	0.0000000	0.0000000	0.0000000	0.4218910	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0147106	0.0000000	2.5747000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.2903710	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0253678	0.0000000	0.1718520	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.2077620	0.1103830	0.0000000	0.0000000	1.7357300	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.2918050	0.0000000	0.0000000	0.0000000	0.2546650	0.0000000	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.2411010	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	-2.3243600	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	-0.2624450	0.0000000	0.0000000	0.0000000	-0.0268726	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0635115
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.7106400	0.0000000	0.5028230	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.9733860	0.0000000	1.2234000	0.0000000	0.0000000	0.0000000	0.0000000	0.5486720	0.0000000
Silicon	288.16	-0.1332780	0.0000000	-1.6690100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.1753400	0.1445960	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2407240	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	10.1240000	0.0000000	0.0000000	17.0380000
Thallium	190.80	0.0000000	1.3195900	-1.8108400	0.0000000	0.0000000	0.0000000	1.6792500	0.0000000	4.8373400	0.0000000
Tin	189.93	-0.0277709	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3823320	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.9543820	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.1453870	-6.2931400	0.0000000	0.0000000	0.0000000	0.8380490	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0223351	0.0000000	0.2510450	0.0000000	-0.0884182	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

RG78 09259

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG78

ANALYSIS METHOD: ICP

ARI PREP CODE: SWC

PREPDATE: 8/10/2010

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
PSB9A-11-13.5-0730	RG78A	1.035	0.0	50.0
PSB9A-1.5-2-073010	RG78B	1.047	0.0	50.0
PSB9A-2-4-073010	RG78C	1.089	0.0	50.0
PSB9A-4-6-073010	RG78D	1.048	0.0	50.0
PSB9A-0-0.5-073010	RG78E	1.037	0.0	50.0
PSB10-0-0.5-073010	RG78F	1.086	0.0	50.0
PSB10-1.5-2-073010	RG78G	1.040	0.0	50.0
PSB10-2-4-073010	RG78H	1.054	0.0	50.0
PSB10-4-6-073010	RG78I	1.061	0.0	50.0
PSB10-8.5-10-07301	RG78J	1.026	0.0	50.0
PSB10-8.5-10-07301D	RG78JDUP	1.022	0.0	50.0
PSB10-8.5-10-07301S	RG78JSPK	1.022	0.0	50.0
PSB10-14-15-073010	RG78K	1.049	0.0	50.0
PSB10-20-25-073010	RG78L	1.081	0.0	50.0
PBS	RG78MB1	1.000	0.0	50.0
LCSS	RG78MB1SPK	1.000	0.0	50.0
LCSS	RG78REF1	1.000	0.0	50.0
PSB9-8.5-9.5-07301	RG78S	1.037	0.0	50.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/11/2010

SDG: RG78 | RUNID: IP081122 | METHOD: ICP | END DATE: 8/11/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	16144				X																	X									
S2	S2	1.00	16204																														
S3	S3	1.00	16242				X																	X									
S4	S4	1.00	16293																														
S5	S5	1.00	16334																														
S0	S0	1.00	16470				X																	X									
ICV	ICV	1.00	16512				X																	X									
ICB	ICB	1.00	16573				X																	X									
CRI	CRII	1.00	17032				X																	X									
ICSA	ICSAI	1.00	17092				X																	X									
ICSAB	ICSABI	1.00	17154				X																	X									
CCV	CCV1	1.00	17224				X																	X									
CCB	CCB1	1.00	17284				X																	X									
ZZZZZZ	RG64A	1.00	17344																														
ZZZZZZ	RG64B	1.00	17410																														
ZZZZZZ	RG64D	1.00	17470																														
ZZZZZZ	RG64F	1.00	17530																														
ZZZZZZ	RG64EDUP	1.00	17590																														
ZZZZZZ	RG64E	1.00	18050																														
ZZZZZZ	RG64ESPK	1.00	18112																														
ZZZZZZ	RG80C	2.00	18173																														
ZZZZZZ	RG80U	2.00	18233																														
ZZZZZZ	RG80MBSPK	2.00	18292																														
CCV	CCV2	1.00	18353				X																	X									
CCB	CCB2	1.00	18413				X																	X									
ZZZZZZ	RG64MB2	1.00	18472																														
ZZZZZZ	RG64MB1	1.00	18533																														
ZZZZZZ	RG64G	1.00	18593																														
ZZZZZZ	RG64H	1.00	19053																														
ZZZZZZ	RG64J	1.00	19113																														
ZZZZZZ	RG64MDUP	1.00	19173																														
ZZZZZZ	RG64M	1.00	19235																														
ZZZZZZ	RG64MSPK	1.00	19301																														
ZZZZZZ	RG64MB2SPK	1.00	19361																														
ZZZZZZ	RG64MB1SPK	1.00	19422																														

FORM XIV

RG78 : 09252

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/11/2010

SDG: RG78 | RUNID: IP081122 | METHOD: ICP | END DATE: 8/11/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
CCV	CCV3	1.00	19482				X																	X									
CCB	CCB3	1.00	19542				X																	X									
ZZZZZZ	RG87MB	1.00	20002																														
ZZZZZZ	RG87B	1.00	20062																														
ZZZZZZ	RG64K	1.00	20124																														
ZZZZZZ	RG64L	1.00	20190																														
ZZZZZZ	RG64N	1.00	20252																														
ZZZZZZ	RG64O	1.00	20312																														
ZZZZZZ	RG64P	1.00	20372																														
PSB9A-11-13.5-0730	RG78A	1.00	20434				X																	X									
PSB9A-1.5-2-073010	RG78B	1.00	20494				X																	X									
ZZZZZZ	RG87MBSPK	1.00	20555																														
CCV	CCV4	1.00	21015				X																	X									
CCB	CCB4	1.00	21075				X																	X									
PBS	RG78MB1	2.00	21135				X																	X									
PSB9A-2-4-073010	RG78C	2.00	21195				X																	X									
PSB9A-4-6-073010	RG78D	2.00	21255				X																	X									
PSB9A-0-0.5-073010	RG78E	2.00	21315				X																	X									
PSB10-0-0.5-073010	RG78F	2.00	21375				X																	X									
PSB10-8.5-10-07301D	RG78JDUP	2.00	21440				X																	X									
PSB10-8.5-10-07301	RG78J	2.00	21500				X																	X									
PSB10-8.5-10-07301S	RG78JSPK	2.00	21560				X																	X									
LCSS	RG78REF1	2.00	22015				X																	X									
LCSS	RG78MB1SPK	2.00	22074				X																	X									
CCV	CCV5	1.00	22134				X																	X									
CCB	CCB5	1.00	22194				X																	X									
PSB10-1.5-2-073010	RG78G	2.00	22254				X																	X									
PSB10-2-4-073010	RG78H	2.00	22315				X																	X									
PSB10-4-6-073010	RG78I	2.00	22375				X																	X									
PSB10-14-15-073010	RG78K	2.00	22435				X																	X									
PSB10-20-25-073010	RG78L	2.00	22495				X																	X									
PSB9-8.5-9.5-07301	RG78S	2.00	22560				X																	X									
ZZZZZZ	RG79A	2.00	23022																														
ZZZZZZ	RG79B	2.00	23082																														
ZZZZZZ	RG79C	2.00	23142																														

FORM XIV

RG78 09293

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/11/2010

SDG: RG78 | RUNID: IP081122 | METHOD: ICP | END DATE: 8/11/2010

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
ZZZZZZ	RG79D	2.00	23203																														
CCV	CCV6	1.00	23263				X																	X									
CCB	CCB6	1.00	23323				X																	X									

RG78 08251

General Chemistry Analysis
Report and Summary QC Forms

ARI Job ID: RG78

SAMPLE RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Client ID: PSB9A-11-13.5-073010
ARI ID: 10-18433 RG78A

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/03/10 080310#1	EPA 160.3	Percent	0.01	84.50
Total Organic Carbon	08/12/10 081210#1	Plumb,1981	Percent	0.020	0.080

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Client ID: PSB9A-2-4-073010
ARI ID: 10-18435 RG78C

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/03/10 080310#1	EPA 160.3	Percent	0.01	95.20
Total Organic Carbon	08/12/10 081210#1	Plumb,1981	Percent	0.020	0.097

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Client ID: PSB10-8.5-10-073010
ARI ID: 10-18442 RG78J

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/03/10 080310#1	EPA 160.3	Percent	0.01	87.10
Total Organic Carbon	08/12/10 081210#1	Plumb,1981	Percent	0.020	1.83

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Client ID: PSB10-14-15-073010
ARI ID: 10-18443 RG78K

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/03/10 080310#1	EPA 160.3	Percent	0.01	95.10
Total Organic Carbon	08/12/10 081210#1	Plumb,1981	Percent	0.020	0.087

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: MP
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/03/10	Percent	< 0.01 U
Total Organic Carbon	08/12/10	Percent	< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon Plumb,1981	ICVL	08/12/10	Percent	0.098	0.100	98.0%

STANDARD REFERENCE RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	08/12/10	Percent	3.47	3.35	103.6%

MS/MSD RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: RG78J Client ID: PSB10-8.5-10-073010						
Total Organic Carbon	08/12/10	Percent	1.83	3.56	1.83	94.4%

REPLICATE RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: RG78J Client ID: PSB10-8.5-10-073010					
Total Solids	08/03/10	Percent	87.10	88.00 88.40	0.8%
Total Organic Carbon	08/12/10	Percent	1.83	2.56 2.20	16.6%

Total Solids

ARI Job ID: RG78

Volatiles Total Solids-voats
Data By: Pat Basilio
Created: 8/ 9/10

Worklist: 971
Analyst: PAB
Comments:

Oven ID:_____

Balance ID:_____

Samples In: Date:_____ Time:_____ Temp:_____ Analyst:_____

Samples Out: Date:_____ Time:_____ Temp:_____ Analyst:_____

	ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1.	RG78A 10-18433				$ 82.90
2.	RG78B 10-18434				$ 96.90
3.	RG78C 10-18435				$ 95.10
4.	RG78D 10-18436				$ 91.90
5.	RG78E 10-18437				$ 96.50
6.	RG78F 10-18438				$ 93.90
7.	RG78G 10-18439				$ 92.70
8.	RG78H 10-18440				$ 92.30
9.	RG78I 10-18441				$ 92.80
10.	RG78J 10-18442				$ 88.90
11.	RG78K 10-18443				$ 96.80
12.	RG78L 10-18444				$ 79.80

Worklist ID: 971 Page: 1
* - VOA TS Copied From BETX TS
% - VOA TS Copied From Metals TS
$ - VOA TS Copied From Extraction TS

8/9/10

BETX/TPHG Total Solids-betxts
Data By: Monica Herbert
Created: 8/11/10

Worklist: 1906
Analyst: MH
Comments:

Oven ID:_____

Balance ID:_____

Samples In: Date:_____ Time:_____ Temp:_____ Analyst:_____

Samples Out: Date:_____ Time:_____ Temp:_____ Analyst:_____

	ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1.	RG78A 10-18433			*	82.9
2.	RG78B 10-18434			*	96.9
3.	RG78C 10-18435			*	95.1
4.	RG78D 10-18436			*	91.9
5.	RG78E 10-18437			*	96.5
6.	RG78F 10-18438			*	93.9
7.	RG78G 10-18439			*	92.7
8.	RG78H 10-18440			*	92.3
9.	RG78I 10-18441			*	92.8
10.	RG78J 10-18442			*	88.9
11.	RG78K 10-18443			*	96.8
12.	RG78L 10-18444			*	79.8

* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS

Extractions Total Solids-extts
Data By: Woo suk Chang
Created: 8/ 7/10

Worklist: 712
Analyst: RVR
Comments:

Oven ID:_____

Balance ID:_____

Samples In: Date:_____ Time:_____ Temp:_____ Analyst:_____

Samples Out: Date:_____ Time:_____ Temp:_____ Analyst:_____

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	RG78A 10-18433 PSB9A-11-13.5-073010	1.17	11.70	9.90	82.9	NR
2.	RG78B 10-18434 PSB9A-1.5-2-073010	1.18	11.33	11.02	96.9	NR
3.	RG78C 10-18435 PSB9A-2-4-073010	1.16	13.24	12.65	95.1	NR
4.	RG78D 10-18436 PSB9A-4-6-073010	1.17	13.20	12.22	91.9	NR
5.	RG78E 10-18437 PSB9A-0-0.5-073010	1.16	11.33	10.97	96.5	NR
6.	RG78F 10-18438 PSB10-0-0.5-073010	1.17	11.44	10.81	93.9	NR
7.	RG78G 10-18439 PSB10-1.5-2-073010	1.15	12.73	11.88	92.7	NR
8.	RG78H 10-18440 PSB10-2-4-073010	1.18	14.09	13.10	92.3	NR
9.	RG78I 10-18441 PSB10-4-6-073010	1.17	13.62	12.72	92.8	NR
10.	RG78J 10-18442 PSB10-8.5-10-073010	1.17	12.23	11.00	88.9	NR
11.	RG78K 10-18443 PSB10-14-15-073010	1.18	11.96	11.61	96.8	NR
12.	RG78L 10-18444 PSB10-20-25-073010	1.17	11.55	9.45	79.8	NR
13.	RG78S 10-18451 PSB9-8.5-9.5-073010	1.16	11.80	10.85	91.1	NR

Extractions Total Solids-extts
Data By: Woo suk Chang
Created: 8/ 7/10

Worklist: 712
Analyst: WC
Comments:

Oven ID: 05

Balance ID: 24FB193

Samples In: Date: 8/7/10 Time: 12:55 Temp: 102°C Analyst: WC

Samples Out: Date: 8/9/10 Time: 06:45 Temp: 104° Analyst: RR

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	RG78A 10-18433 PSB9A-11-13.5-073010	1.17g	11.90g	9.90		NR
2.	RG78B 10-18434 PSB9A-1.5-2-073010	1.18g	11.33g	11.02		NR
3.	RG78C 10-18435 PSB9A-2-4-073010	1.16g	13.24g	12.65		NR
4.	RG78D 10-18436 PSB9A-4-6-073010	1.17g	13.20g	12.22		NR
5.	RG78E 10-18437 PSB9A-0-0.5-073010	1.16g	11.33g	10.97		NR
6.	RG78F 10-18438 PSB10-0-0.5-073010	1.17g	11.44g	10.81		NR
7.	RG78G 10-18439 PSB10-1.5-2-073010	1.15g	12.73g	11.88		NR
8.	RG78H 10-18440 PSB10-2-4-073010	1.18g	14.09g	13.10		NR
9.	RG78I 10-18441 PSB10-4-6-073010	1.17g	13.62g	12.72		NR
10.	RG78J 10-18442 PSB10-8.5-10-073010	1.17g	12.23g	11.80		NR
11.	RG78K 10-18443 PSB10-14-15-073010	1.18	11.96 ~~12.96~~	11.61		NR
12.	RG78L 10-18444 PSB10-20-25-073010	1.17	11.55	9.45		NR
13.	RG78S 10-18451 PSB9-8.5-9.5-073010	1.16g	11.80	10.85		NR

Solids Data Entry Report Checked by: DM Date: 8/11/10
Date: 08/11/10 Data Analyst: KM

Solids Determination performed on 08/10/10 by KM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
RG78	A	PSB9A-11-13.5-07301	0.971	10.253	8.653	82.76
RG78	B	PSB9A-1.5-2-073010	0.979	10.134	9.863	97.04
RG78	C	PSB9A-2-4-073010	0.978	10.472	9.971	94.72
RG78	D	PSB9A-4-6-073010	0.969	10.459	9.736	92.38
RG78	E	PSB9A-0-0.5-073010	1.013	10.171	9.798	95.93
RG78	F	PSB10-0-0.5-073010	0.970	10.426	9.409	89.24
RG78	G	PSB10-1.5-2-073010	0.988	10.321	9.803	94.45
RG78	H	PSB10-2-4-073010	0.998	10.683	9.886	91.77
RG78	I	PSB10-4-6-073010	0.954	10.340	9.744	93.65
RG78	J	PSB10-8.5-10-073010	0.979	10.519	9.361	87.86
RG78	K	PSB10-14-15-073010	0.963	10.318	9.937	95.93
RG78	L	PSB10-20-25-073010	0.980	10.238	8.742	83.84
RG78	S	PSB9-8.5-9.5-073010	0.995	10.638	9.883	92.17

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Total Solids Bench Sheet

Laboratory Section Metals

Oven Identification: 07 **Balance ID:** 068755

Samples in Oven: Date: 8/10/10 Time: 1215 Temp: 104°C Analyst: KM

Removed from Oven: Date: 8/11/10 Time: 0930 Temp: 101°C Analyst: MH

Source of Total Solids Data If From A Different Lab: —

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Date & Time Last Weight	Final Weighting >12 hrs[1]
RG78 A	0.971	10.253	8.653	—	✓
" B	0.979	10.134	9.863	—	✓
" C	0.978	10.472	9.971	—	✓
" D	0.969	10.459	9.736	—	✓
" E	1.013	10.171	9.798	—	✓
" F	0.970	10.426	9.409	—	✓
" G	0.988	10.321	9.803	—	✓
" H	0.998	10.683	9.886	—	✓
" I	0.954	10.340	9.744	—	✓
" J	0.979	10.519	9.361	—	✓
" K	0.963	10.318	9.937	—	✓
" L	0.980	10.238	8.742	—	✓
" S	0.995	10.638	9.883	—	✓
			KM		
			8/10/10		

1) Place a check mark in this column if samples have dried > 12 but < 24 hours. When samples have been at 104°C < 12 hours, constant weight must be verified as described in SOP 10023S. Use a 2nd bench sheet for additional weightings.

Volatile Raw Data
Preparation Log

ARI Job ID: RG78

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Volatile Organics Extraction Bench Sheet

(8260B, 8260B-SIM, 8021, NWTPH-Gx, AK-101, TPH-G, VPH, TCLP-ZHE)

ARI Project No.: RG78 | Client ID/Project: | Extraction Date: 1st Extraction: / 2nd Extraction: | MeOH Lot No.: 1816W | Analyst:

	Lab ID	Vial No.	Preservative		Method 5035 Sample Weight					Comments
			$NaHSO_3$	CH_3OH	Vial Weight	Tare (from vial)	Sample Weight	Extract Volume	MeOH Spilt Volume	
	MB:									
	LCS:									
	LCSD:									
1	RG78 A	1	—		42.02	35.42	6.60			
2	B	2	—		44.40	35.32	9.08			
3	C	2	—		44.26	35.43	8.83			
4	D	2	—		41.74	35.62	6.12			
5	E	1	—		42.34	35.56	6.78			
6	F	2	—		45.86	35.45	10.41			
7	G	1	—		44.15	35.44	8.71			
8	H	1	—		45.23	35.45	9.78			
9	I	3	—		45.13	34.93	10.20			
10	J	1	—		44.65	35.53	9.12			
11	K	1	—		44.87	34.73	10.14			
12	L	2	—		45.46	35.35	10.11			
13	M	2					5mL			
14	N	1					5mL			
15	Jay	7	—		45.07	35.39	9.68			
16	Jive	1	—		44.69	35.54	9.15			
17										
18										
19										
20										
	Balance ID:									

	Solution ID	Concentration	Amount Spiked	Analyst	Witness
Surrogate:					
Spike:					

RG78 : 09313

Volatile Raw Data
Initial Calibration Notes and Raw Data

ARI Job ID: RG78

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: FS ical Client ID: _____

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 7/23/10 Analysis Start Date: 7/23/10

pH ≤ 2.0	YES / NO / NA	Method Blank In Control?	YES / NO
BFB Tune Meets Criteria?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
Internal Standard Meets Criteria?	YES / NO / NA	Surrogate Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes /NO
Special Analysis Criteria Met?	YES / NO / NA		

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

ICV - bromoethane 124.8%R
1,2,4 TCB 75%R
1,2,3 TCB 76.7%R

all analytes averaged

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 7/29/10

Reviewer: _____ **Date:** 7/29/10

Analytical Resources Inc.: Organics Instrument Log

FINN5 Serial No.: 5500-000421A

Date: 7/23/10 Analysis: 8260C Analyst: JT

GC Program: F5 Column No: 801724 Column Type: RTX-502.2

Instrument Tune (.U or .CT.): DFB0723 EM Voltage: 1529

Calibration File: 2000723 Curve Date: 7/23/10

IS/SS	Ical/Ccal	LCS/ICV
W644-4	W646-2	W647-1
	W646-3	~~W647-~~

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/finn5.i/23JUL10.b

	Time	Filename	LabID	ClientID	WT									
1	0837	BFB0723.d	BFB0723	BFB0723	0.00									
2	1648	BFB07231.d	BFB0723	BFB0723	0.00									
3	1718	2000723.d	IC0723	VSTD200	5.00	6.62	159149	7.64	229095	10.79	171495	13.47	145587	
4	1749	1500723.d	IC0723	VSTD150	5.00	6.62	155784	7.64	228573	10.78	178614	13.47	122904	
5	1816	1000723.d	IC0723	VSTD100	5.00	6.62	135334	7.64	199732	10.78	160631	13.47	96340	
6	1842	0500723.d	IC0723	VSTD050	5.00	6.62	131115	7.63	191559	10.78	161199	13.47	88279	
7	1909	0100723.d	IC0723	VSTD010	5.00	6.62	118930	7.63	168271	10.78	140990	13.46	72150	
8	1935	0050723.d	IC0723	VSTD005	5.00	6.62	117041	7.63	170929	10.78	146260	13.46	75761	
9	2002	0020723.d	IC0723	VSTD002	5.00	6.62	125854	7.63	165926	10.78	143906	13.47	73251	
10	2028	0010723.d	IC0723	VSTD001	5.00	6.61	113813	7.63	168346	10.77	142296	13.46	71616	
11	2214	ICV0723.d	ICV0723	ICV0723	5.00	6.62	130699	7.64	194200	10.78	160989	13.47	90026	

JT 7/26/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/finn5.i/23JUL10.b

ARI Job No.: BFB0 Method: bfb8260.m Instrument: finn5.i Date: 23-JUL-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1648	BFB07231.d	BFB0723	BFB0723	1	NO MANUAL INTEGRATION
1718	2000723.d	IC0723	VSTD200	1	NO MANUAL INTEGRATION
1749	1500723.d	IC0723	VSTD150	1	NO MANUAL INTEGRATION
1816	1000723.d	IC0723	VSTD100	1	NO MANUAL INTEGRATION
1842	0500723.d	IC0723	VSTD050	1	NO MANUAL INTEGRATION
1909	0100723.d	IC0723	VSTD010	1	NO MANUAL INTEGRATION
1935	0050723.d	IC0723	VSTD005	1	2-Hexanone, Trans-1,4-Dichloro 2-Butene,
2002	0020723.d	IC0723	VSTD002	1	Acetone, 2-Hexanone, 1,2,3-Trichloropropane, Trans-1,4-Dichloro 2-Butene,
2028	0010723.d	IC0723	VSTD001	1	Acetone, 1,1,1-Trichloroethane, 2-Hexanone, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, Trans-1,4-Dichloro 2-Butene,
2214	ICV0723.d	ICV0723	ICV0723	1	NO MANUAL INTEGRATION

Data File: /chem1/finn5.i/23JUL10.b/BFB07231.d

Date : 23-JUL-2010 16:48

Client ID: BFB0723

Instrument: finn5.i

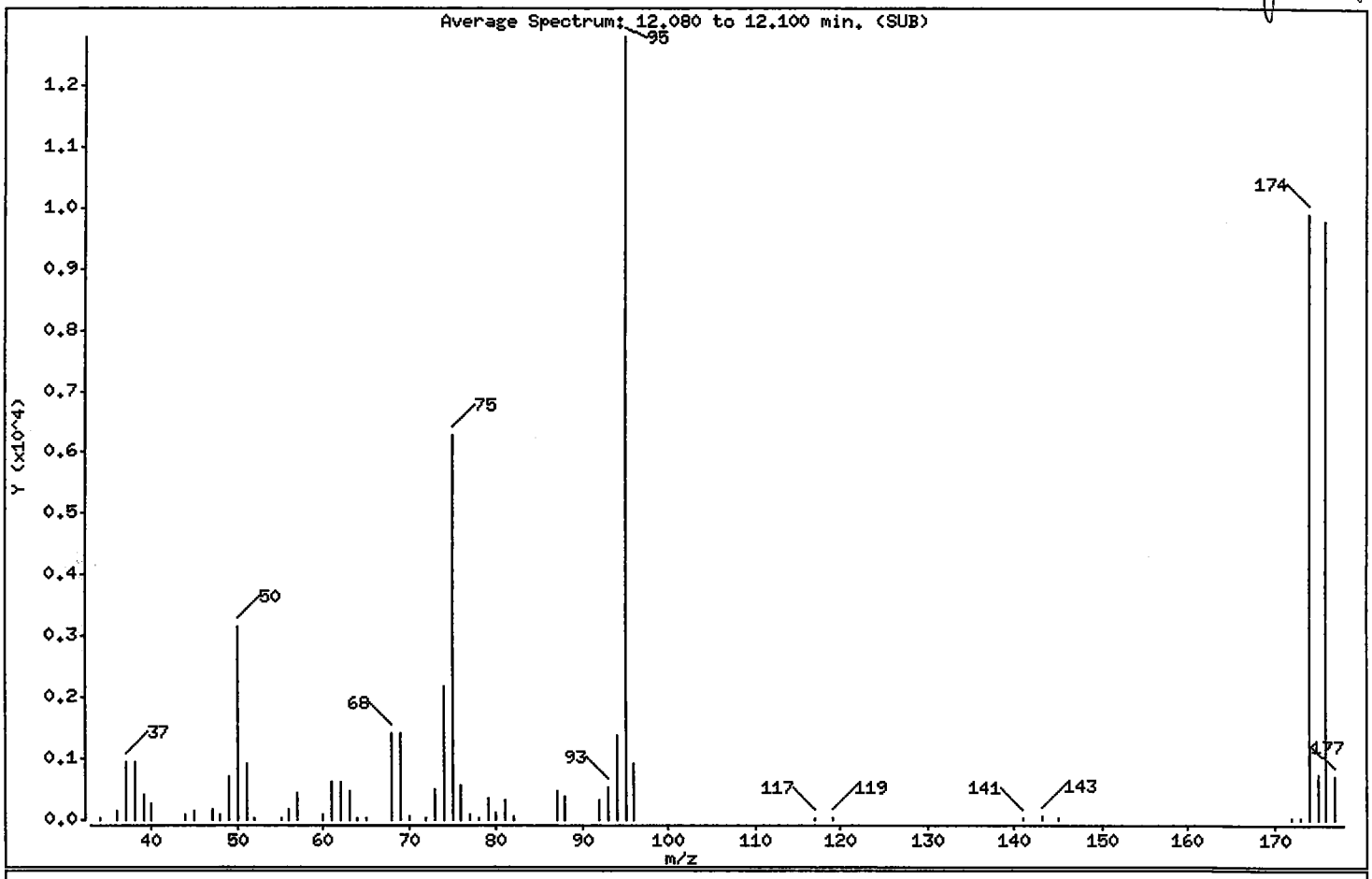
Sample Info: BFB0723,BFB0723,,1,23JUL10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	24.73
75	30.00 - 66.00% of mass 95	49.06
96	5.00 - 9.00% of mass 95	7.07
173	Less than 2.00% of mass 174	0.16 (0.21)
174	50.00 - 101.00% of mass 95	77.38
175	4.00 - 9.00% of mass 174	5.70 (7.37)
176	93.00 - 101.00% of mass 174	76.42 (98.77)
177	5.00 - 9.00% of mass 176	5.51 (7.21)

Data File: /chem1/finn5.i/23JUL10.b/BFB07231.d

Date : 23-JUL-2010 16:48

Client ID: BFB0723

Instrument: finn5.i

Sample Info: BFB0723,BFB0723,,1,23JUL10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

Data File: BFB07231.d

Spectrum: Average Spectrum: 12.080 to 12.100 min. (SUB)

Location of Maximum: 95.00

Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
34.00	41	55.00	28	74.00	2174	95.00	12792
36.00	159	56.00	184	75.00	6276	96.00	905
37.00	938	57.00	440	76.00	565	117.00	17
38.00	936	60.00	91	77.00	77	119.00	25
39.00	400	61.00	624	78.00	18	141.00	28
40.00	260	62.00	625	79.00	363	143.00	45
44.00	96	63.00	460	80.00	109	145.00	24
45.00	144	64.00	38	81.00	331	172.00	26
47.00	178	65.00	22	82.00	62	173.00	21
48.00	81	68.00	1416	87.00	469	174.00	9898
49.00	708	69.00	1407	88.00	387	175.00	729
50.00	3164	70.00	64	92.00	317	176.00	9776
51.00	905	72.00	18	93.00	542	177.00	705
52.00	33	73.00	511	94.00	1387		

Data File: /chem1/finn5.i/23JUL10.b/BFB07231.d

Date : 23-JUL-2010 16:48

Client ID: BFB0723

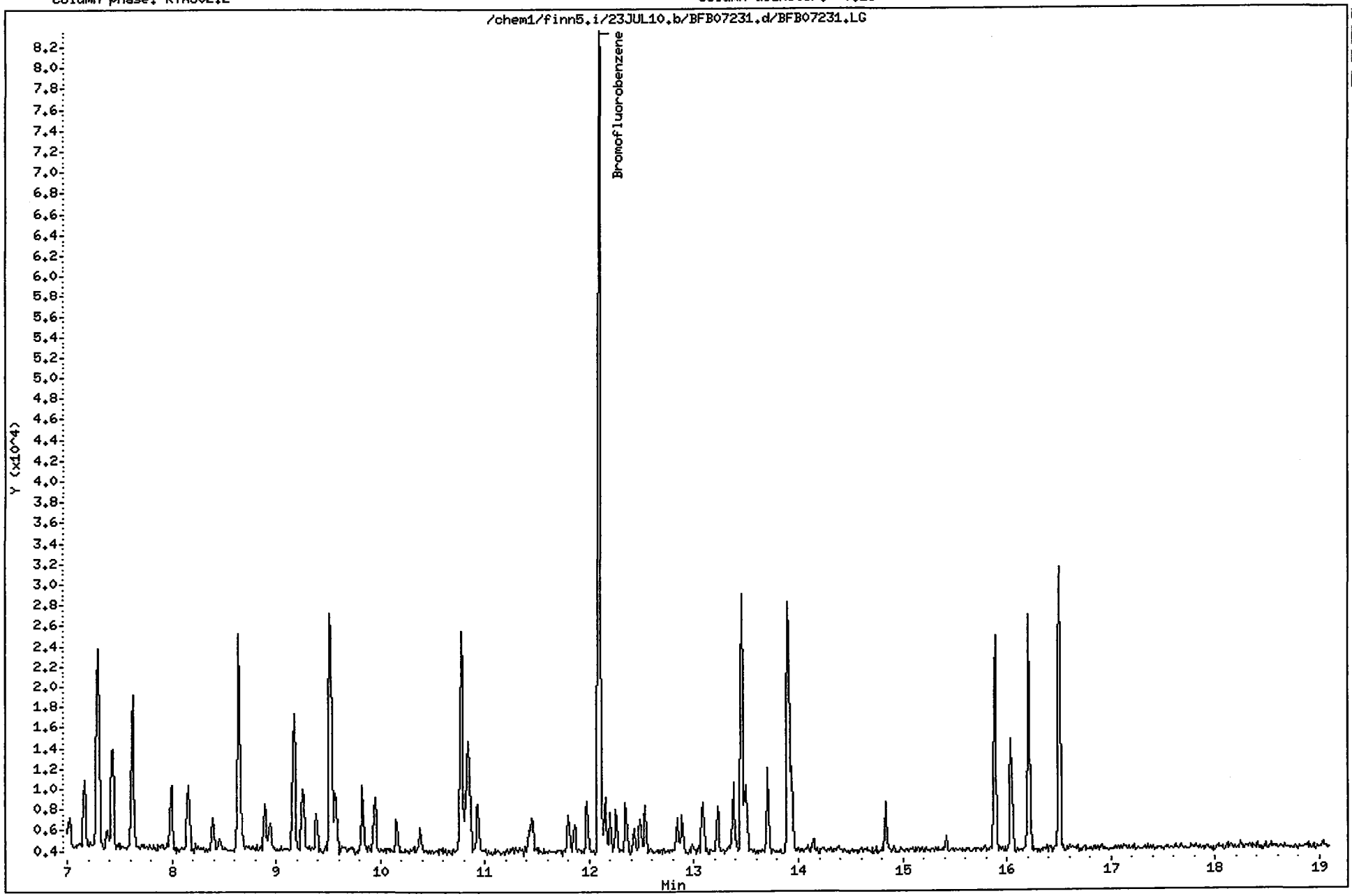
Sample Info: BFB0723,BFB0723,,1,23JUL10,,

Column phase: RTX502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Calibration File Names:
Level 1: /chem1/finn5.i/23JUL10.b/0010723.d
Level 2: /chem1/finn5.i/23JUL10.b/0020723.d
Level 3: /chem1/finn5.i/23JUL10.b/0050723.d
Level 4: /chem1/finn5.i/23JUL10.b/0100723.d
Level 5: /chem1/finn5.i/23JUL10.b/0500723.d
Level 6: /chem1/finn5.i/23JUL10.b/1000723.d
Level 7: /chem1/finn5.i/23JUL10.b/1500723.d
Level 8: /chem1/finn5.i/23JUL10.b/2000723.d

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
1 Dichlorodifluoromethane	0.61856	0.69160	0.65985	0.63344	0.67493	0.67442			
	0.63254	0.60144					0.64835	4.860	
2 Chloromethane	2.15529	1.96152	1.91728	2.00912	1.65244	1.56576			
	1.38789	1.30591					1.74440	17.810	
3 Vinyl Chloride	1.51916	1.45247	1.51314	1.59745	1.36296	1.35754			
	1.17136	1.06143					1.37944	13.295	
4 Bromomethane	0.93443	0.85086	0.77665	0.62524	0.81039	0.76904			
	0.64701	0.57949					0.74914	16.282	
181 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
5 Chloroethane	1.07062	1.09297	0.98777	0.87106	0.87644	0.77822			
	0.62883	+++++					0.90084	18.341	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
6 Trichlorofluoromethane	1.47611	1.55864	1.50469	1.41033	1.42641	1.27999		
	1.04222	0.96730					1.33321	16.450
7 Acrolein	0.20463	0.19693	0.17700	0.16354	0.15712	0.14591		
	0.11901	+++++					0.16631	17.814
8 112Trichloro122Trifluoroethan	1.27446	1.18209	1.20394	1.12348	1.01422	0.97608		
	0.81784	0.75797					1.04376	17.834
9 Acetone	0.30796	0.31971	0.31370	0.30116	0.26843	0.24372		
	0.20402	+++++					0.27982	15.417
10 1,1-Dichloroethene	1.03591	1.01895	1.04143	1.03174	0.97906	0.93375		
	0.79718	0.73915					0.94715	12.366
11 Bromoethane	0.70730	0.74361	0.72880	0.75267	0.72730	0.72722		
	0.63319	0.59114					0.70140	8.233
12 Iodomethane	1.01087	1.06621	1.14259	1.14012	1.25306	1.25553		
	1.06567	1.02480					1.11986	8.526
13 Methylene Chloride	+++++	1.39659	1.18975	1.12760	0.93514	0.92898		
	0.82084	+++++					1.06648	19.864
14 Acrylonitrile	0.19594	0.24276	0.28315	0.28492	0.26101	0.25835		
	0.23046	0.21983					0.24705	12.529

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1 150.000 Level 7	2.000 Level 2 200.000 Level 8	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD	
16 Methyl tert-Butyl Ether	1.39176 1.31326	1.48204 1.15084	1.61653	1.63134	1.52463	1.54183	1.45653	11.218	
15 Carbon Disulfide	3.37220 2.18562	3.30955 1.91323	3.39522	3.28180	3.17583	2.86693	2.93755	19.647	
17 Trans-1,2-Dichloroethene	0.81493 0.76581	0.82496 0.72223	0.80638	0.89481	0.79365	0.83461	0.80717	6.268	
18 Vinyl Acetate	1.37858 1.19699	1.47513 1.05617	1.52895	1.55974	1.56063	1.55351	1.41371	13.515	
19 1,1-Dichloroethane	1.59340 1.25502	1.57720 1.06889	1.61593	1.67405	1.53370	1.56119	1.48492	14.111	
179 Hexane	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
20 2-Butanone	0.32659 0.26832	0.32955 0.24668	0.34359	0.35332	0.32770	0.32306	0.31485	11.826	
21 2,2-Dichloropropane	0.88742 0.87622	0.89660 0.85519	0.93309	0.95140	0.91310	0.95603	0.90863	3.989	
22 Cis-1,2-Dichloroethene	0.70291 0.68699	0.70218 0.68958	0.71753	0.75872	0.69175	0.74171	0.71142	3.685	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	150.000 Level 7	200.000 Level 8	___ RRF	% RSD	
24 Chloroform	1.24898	1.29560	1.31578	1.31952	1.20276	1.23393	1.07329	0.95949	1.20617	10.579	
26 Bromochloromethane	0.30137	0.32304	0.36688	0.35714	0.33542	0.35133	0.33200	0.33497	0.33777	6.124	
27 1,1,1-Trichloroethane	0.97660	0.93458	0.97291	0.98520	0.93283	0.96160	0.87853	0.86280	0.93813	4.889	
182 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
29 1,1-Dichloropropene	0.66975	0.69007	0.71193	0.76499	0.67325	0.69499	0.63130	0.59559	0.67899	7.511	
30 Carbon Tetrachloride	0.58124	0.62407	0.60370	0.63020	0.57050	0.59224	0.55109	0.57045	0.59044	4.670	
32 1,2-Dichloroethane	0.57115	0.62874	0.63301	0.67822	0.58611	0.59776	0.54427	0.52926	0.59607	8.280	
33 Benzene	1.75947	1.76841	1.80022	1.96537	1.65649	1.45472	1.08835	+++++	1.64186	17.603	
180 Isooctane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
35 Trichloroethene	0.43601	0.49962	0.50986	0.54002	0.46846	0.48511			
	0.44820	0.46107					0.48104	7.173	
36 1,2-Dichloropropane	0.52451	0.52147	0.54818	0.58228	0.50133	0.51755			
	0.47045	0.47472					0.51756	7.121	
38 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
37 Bromodichloromethane	0.52125	0.59258	0.58170	0.60376	0.54255	0.55496			
	0.51592	0.51411					0.55335	6.471	
39 Dibromomethane	0.25305	0.25915	0.25993	0.28772	0.24894	0.26038			
	0.23699	0.24918					0.25692	5.717	
40 2-Chloroethyl Vinyl Ether	+++++	0.14178	0.17329	0.18981	0.18519	0.19380			
	0.18677	0.19813					0.18125	10.524	
41 4-Methyl-2-Pentanone	0.14149	0.13693	0.13232	0.14268	0.13289	0.13206			
	0.12187	0.11715					0.13218	6.720	
42 Cis 1,3-dichloropropene	0.50313	0.56652	0.59990	0.66027	0.63768	0.67623			
	0.61950	0.56997					0.60415	9.387	
28 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	150.000 Level 7	200.000 Level 8	___ RRF	% RSD
44 Toluene	1.25664	1.10456	1.02224	1.05184	0.92146	0.94617	0.78347	0.70675	0.97414	18.057
45 Trans 1,3-Dichloropropene	0.44640	0.47190	0.49114	0.54059	0.52142	0.55921	0.52387	0.50804	0.50782	7.254
46 2-Hexanone	0.48863	0.41802	0.40375	0.43814	0.38146	0.32234	+++++	+++++	0.40872	13.652
47 1,1,2-Trichloroethane	0.26879	0.29516	0.32288	0.33895	0.29564	0.30800	0.29114	0.30558	0.30327	6.989
48 1,3-Dichloropropane	0.68343	0.71401	0.71469	0.75583	0.67765	0.72373	0.67642	0.68404	0.70372	4.007
49 Tetrachloroethene	0.61667	0.52708	0.56488	0.56674	0.48964	0.54556	0.54309	0.59035	0.55550	6.995
50 Chlorodibromomethane	0.42693	0.43952	0.46540	0.50238	0.45273	0.49329	0.47878	0.52825	0.47341	7.173
51 1,2-Dibromoethane	0.30087	0.32786	0.33839	0.34926	0.32203	0.32796	0.30873	0.32362	0.32484	4.715
53 Chlorobenzene	1.44874	1.25551	1.21469	1.28463	1.09325	1.17322	0.98203	0.92990	1.17275	14.376

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
55 1,1,1,2-Tetrachloroethane	0.48807	0.46350	0.43819	0.45358	0.38926	0.42774		
	0.43874	0.49165					0.44884	7.446
54 Ethyl Benzene	2.20280	2.17625	2.08813	2.26814	2.02082	1.78412		
	1.34210	+++++					1.98319	16.336
56 m,p-xylene	0.68572	0.70089	0.75629	0.82054	0.76759	0.80414		
	0.64714	0.61656					0.72486	10.182
57 o-Xylene	0.59735	0.67179	0.70053	0.77321	0.74982	0.84040		
	0.82834	0.86537					0.75335	12.283
58 Styrene	1.01338	1.04252	1.15090	1.32066	1.22803	1.34186		
	1.12721	1.09402					1.16482	10.471
59 Isopropyl Benzene	3.58090	3.46378	3.66983	4.08053	3.63628	3.05286		
	2.07611	+++++					3.36576	19.154
60 Bromoform	0.58786	0.56177	0.56335	0.58351	0.52086	0.53868		
	0.49959	0.47363					0.54116	7.521
61 1,1,2,2-Tetrachloroethane	1.19875	1.12388	1.03602	1.12613	0.91700	0.89056		
	0.77962	0.70704					0.97237	18.199
63 1,2,3-Trichloropropane	+++++	0.22594	0.22109	0.22654	0.18550	0.18274		
	0.16039	0.14626					0.19264	16.965

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	150.000 Level 7	200.000 Level 8						
65 Trans-1,4-Dichloro 2-Butene	+++++	0.32184	0.32576	0.34893	0.30143	0.29907		
	0.25759	0.23740					0.29886	13.135
66 N-Propyl Benzene	4.35587	4.36240	4.59339	5.13243	4.29164	3.33374		
	+++++	+++++					4.34491	13.450
67 Bromobenzene	0.97674	0.93719	0.97174	1.05787	0.91718	0.95651		
	0.87178	0.81723					0.93828	7.723
68 1,3,5-Trimethyl Benzene	2.66281	2.66686	2.91760	3.22571	2.99783	2.73312		
	1.92105	+++++					2.73214	15.058
69 2-Chloro Toluene	3.12291	2.80576	3.07335	3.37221	2.80971	2.82080		
	1.97970	+++++					2.85492	15.393
70 4-Chloro Toluene	2.62581	2.91088	2.87998	3.29757	2.95871	2.62567		
	1.85746	+++++					2.73658	16.426
71 T-Butyl Benzene	2.25508	2.38597	2.57296	2.86417	2.63858	2.56035		
	1.95835	1.46344					2.33736	19.065
72 1,2,4-Trimethylbenzene	2.43800	2.54502	2.85134	3.25960	2.94781	2.80039		
	1.98513	+++++					2.68961	15.258
73 S-Butyl Benzene	3.65072	3.68903	3.98398	4.45398	4.03139	3.26306		
	+++++	+++++					3.84536	10.568

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	150.000 Level 7	200.000 Level 8	___ RRF	% RSD	
74 4-Isopropyl Toluene	2.22576	2.54160	2.82348	3.17997	2.94657	2.74678	2.00557	+++++	2.63853	15.583	
75 1,3-Dichlorobenzene	1.56180	1.53308	1.67395	1.91240	1.64575	1.80399	1.47885	1.21428	1.60301	13.256	
64 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
77 1,4-Dichlorobenzene	1.65466	1.57267	1.70259	1.83867	1.59685	1.77492	1.48449	1.20781	1.60408	12.218	
178 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
78 N-Butyl Benzene	2.81013	2.76549	3.04510	3.43035	3.10253	2.84626	1.94473	+++++	2.84923	16.127	
80 1,2-Dichlorobenzene	1.53737	1.60237	1.63752	1.74962	1.51750	1.58654	1.40066	1.15636	1.52349	11.753	
81 1,2-Dibromo 3-Chloropropane	0.15220	0.20921	0.18954	0.20055	0.17137	0.15806	0.13717	0.12795	0.16826	17.597	
82 1,2,4-Trichlorobenzene	0.96487	1.01671	0.97082	1.12640	0.86020	0.91319	0.82523	0.73938	0.92710	12.980	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	150.000 Level 7	200.000 Level 8						
83 Hexachloro 1,3-Butadiene	0.58506	0.68805	0.68940	0.75107	0.58913	0.59714		
	0.55357	0.54187					0.62441	12.059
84 Naphthalene	1.71610	1.75595	1.74219	2.09362	1.61770	1.55845		
	1.28695	+++++					1.68157	14.468
85 1,2,3-Trichlorobenzene	0.96068	1.02012	0.96026	1.13604	0.80895	0.82225		
	0.73656	0.64602					0.88636	18.168
$ 25 Dibromofluoromethane	0.64899	0.62877	0.61356	0.58619	0.59870	0.58643		
	0.57172	0.53307					0.59593	5.995
$ 31 d4-1,2-Dichloroethane	0.71761	0.70471	0.68731	0.64625	0.64321	0.64102		
	0.61687	0.55964					0.65208	7.847
$ 43 d8-Toluene	1.12329	1.14949	1.12157	1.10618	1.11356	1.07971		
	1.04839	1.04692					1.09864	3.363
$ 62 4-Bromofluorobenzene	0.54956	0.55666	0.55779	0.55088	0.56658	0.59164		
	0.61336	0.69489					0.58517	8.478
$ 79 d4-1,2-Dichlorobenzene	0.92905	0.92027	0.92025	0.92575	0.92529	0.90255		
	0.87965	0.87290					0.90947	2.425

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	2000723	1500723	1000723	0500723	0100723	0050723	0020723	0010723
INJ.DATE:	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010
INJ.TIME:	17:18	17:49	18:16	18:42	19:09	19:35	20:02	20:28

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Dichlorodifluoromethan	3.015	3.015	3.005	3.005	3.005	3.005	3.005	2.995	3.015	2.750-3.280	3.006	0.006
2 Chloromethane	3.316	3.316	3.306	3.306	3.306	3.296	3.306	3.296	3.316	3.051-3.581	3.306	0.008
3 Vinyl Chloride	3.417	3.417	3.417	3.417	3.407	3.417	3.427	3.417	3.417	3.152-3.682	3.417	0.005
4 Bromomethane	3.909	3.909	3.909	3.909	3.899	3.899	3.909	3.899	3.909	3.644-4.174	3.906	0.005
181 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.500	4.235-4.765	+++++	+++++
5 Chloroethane	3.980	3.980	3.980	3.980	3.970	3.970	3.980	3.970	3.980	3.715-4.245	3.976	0.005
6 Trichlorofluoromethane	4.241	4.241	4.241	4.241	4.231	4.231	4.241	4.231	4.241	3.976-4.506	4.237	0.005
7 Acrolein	4.633	4.633	4.633	4.623	4.623	4.623	4.623	4.623	4.633	4.368-4.898	4.627	0.005
8 112Trichloro122Trifluo	4.643	4.643	4.643	4.633	4.633	4.633	4.643	4.633	4.643	4.378-4.908	4.638	0.005
9 Acetone	4.693	4.683	4.683	4.673	4.673	4.673	4.673	4.673	4.693	4.428-4.958	4.678	0.008
10 1,1-Dichloroethene	4.844	4.844	4.834	4.834	4.834	4.834	4.834	4.834	4.844	4.579-5.109	4.837	0.005
11 Bromoethane	5.055	5.055	5.055	5.055	5.055	5.045	5.055	5.055	5.055	4.790-5.320	5.054	0.004
12 Iodomethane	5.156	5.156	5.156	5.156	5.146	5.146	5.156	5.146	5.156	4.891-5.421	5.152	0.005
13 Methylene Chloride	5.276	5.276	5.276	5.266	5.266	5.266	5.266	5.266	5.276	5.011-5.541	5.270	0.005
14 Acrylonitrile	5.367	5.357	5.357	5.357	5.357	5.347	5.347	5.347	5.367	5.102-5.632	5.354	0.007
16 Methyl tert-Butyl Ethe	5.407	5.397	5.397	5.397	5.397	5.387	5.397	5.387	5.407	5.142-5.672	5.396	0.006
15 Carbon Disulfide	5.377	5.377	5.377	5.377	5.367	5.367	5.377	5.367	5.377	5.112-5.642	5.373	0.005

Reviewer 1 _____ Date: 7/29/10
Reviewer 2 _____ Date: _____

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
17 Trans-1,2-Dichloroethe	5.558	5.558	5.558	5.558	5.548	5.548	5.558	5.548	5.558	5.293-5.822	5.554	0.005
18 Vinyl Acetate	5.879	5.879	5.879	5.879	5.869	5.869	5.879	5.869	5.879	5.614-6.144	5.875	0.005
19 1,1-Dichloroethane	5.940	5.940	5.940	5.940	5.929	5.929	5.929	5.929	5.940	5.675-6.204	5.935	0.005
179 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.990	5.725-6.255	+++++	+++++
20 2-Butanone	6.291	6.281	6.281	6.281	6.281	6.271	6.281	6.271	6.291	6.026-6.556	6.280	0.006
21 2,2-Dichloropropane	6.462	6.462	6.462	6.452	6.452	6.452	6.452	6.442	6.462	6.197-6.727	6.455	0.007
22 Cis-1,2-Dichloroethene	6.502	6.502	6.492	6.492	6.492	6.492	6.492	6.482	6.502	6.237-6.767	6.494	0.006
* 23 Pentafluorobenzene	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.613	6.623	6.358-6.888	6.622	0.004
24 Chloroform	6.643	6.643	6.643	6.643	6.633	6.633	6.643	6.633	6.643	6.378-6.908	6.639	0.005
26 Bromochloromethane	6.814	6.814	6.804	6.804	6.804	6.804	6.804	6.794	6.814	6.549-7.079	6.805	0.006
$ 25 Dibromofluoromethane	6.844	6.844	6.844	6.844	6.834	6.834	6.834	6.834	6.844	6.579-7.109	6.839	0.005
27 1,1,1-Trichloroethane	7.035	7.035	7.035	7.025	7.025	7.025	7.025	7.015	7.035	6.770-7.300	7.027	0.007
182 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.030	7.765-8.295	+++++	+++++
29 1,1-Dichloropropene	7.176	7.176	7.176	7.176	7.166	7.166	7.176	7.166	7.176	6.870-7.481	7.172	0.005
$ 31 d4-1,2-Dichloroethane	7.306	7.306	7.306	7.306	7.296	7.296	7.306	7.296	7.306	7.041-7.571	7.303	0.005
30 Carbon Tetrachloride	7.296	7.296	7.286	7.286	7.286	7.286	7.286	7.286	7.296	6.991-7.602	7.289	0.005
32 1,2-Dichloroethane	7.397	7.397	7.397	7.387	7.387	7.387	7.387	7.387	7.397	7.091-7.702	7.391	0.005
33 Benzene	7.447	7.447	7.447	7.437	7.437	7.437	7.437	7.427	7.447	7.141-7.752	7.439	0.007
180 Isooctane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.687	6.422-6.952	+++++	+++++
* 34 1,4-Difluorobenzene	7.638	7.638	7.638	7.628	7.628	7.628	7.628	7.628	7.638	7.332-7.944	7.632	0.005
35 Trichloroethene	8.010	8.010	8.010	8.000	8.000	8.000	8.010	8.000	8.010	7.704-8.315	8.005	0.005
36 1,2-Dichloropropane	8.171	8.171	8.171	8.171	8.161	8.161	8.161	8.161	8.171	7.865-8.476	8.166	0.005

RC78 0033

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	38 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.887	8.622-9.152	+++++	+++++
	37 Bromodichloromethane	8.412	8.402	8.402	8.402	8.402	8.392	8.402	8.392	8.412	8.106-8.717	8.401	0.006
	39 Dibromomethane	8.472	8.472	8.472	8.472	8.472	8.462	8.472	8.462	8.472	8.167-8.778	8.470	0.005
	40 2-Chloroethyl Vinyl Et	8.623	8.623	8.623	8.613	8.613	8.613	8.613	8.613	8.623	8.317-8.928	8.617	0.005
	41 4-Methyl-2-Pentanone	8.663	8.653	8.653	8.653	8.653	8.643	8.653	8.643	8.663	8.357-8.969	8.652	0.006
	42 Cis 1,3-dichloropropen	8.914	8.914	8.904	8.904	8.904	8.904	8.904	8.894	8.914	8.609-9.220	8.906	0.006
	28 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.337	7.072-7.602	+++++	+++++
$	43 d8-Toluene	9.186	9.186	9.186	9.186	9.176	9.176	9.186	9.176	9.186	8.880-9.491	9.182	0.005
	44 Toluene	9.276	9.266	9.266	9.266	9.266	9.256	9.266	9.256	9.276	8.971-9.582	9.265	0.006
	45 Trans 1,3-Dichloroprop	9.407	9.397	9.397	9.397	9.397	9.387	9.397	9.387	9.407	9.101-9.712	9.395	0.006
	46 2-Hexanone	9.537	9.537	9.527	9.527	9.527	9.527	9.527	9.527	9.537	9.106-9.969	9.530	0.005
	47 1,1,2-Trichloroethane	9.588	9.578	9.578	9.578	9.578	9.578	9.578	9.568	9.588	9.282-9.893	9.578	0.005
	48 1,3-Dichloropropane	9.839	9.839	9.839	9.839	9.829	9.829	9.839	9.829	9.839	9.407-10.270	9.835	0.005
	49 Tetrachloroethene	9.960	9.960	9.960	9.960	9.949	9.949	9.960	9.949	9.960	9.528-10.391	9.956	0.005
	50 Chlorodibromomethane	10.171	10.171	10.161	10.161	10.161	10.161	10.161	10.161	10.171	9.739-10.602	10.163	0.005
	51 1,2-Dibromoethane	10.392	10.392	10.392	10.392	10.382	10.382	10.382	10.382	10.392	10.086-10.697	10.387	0.005
*	52 d5-Chlorobenzene	10.794	10.784	10.784	10.784	10.784	10.784	10.784	10.774	10.794	10.362-11.225	10.784	0.005
	53 Chlorobenzene	10.834	10.834	10.824	10.824	10.824	10.824	10.824	10.814	10.834	10.402-11.266	10.825	0.006
	55 1,1,1,2-Tetrachloroeth	10.864	10.854	10.854	10.854	10.844	10.844	10.854	10.844	10.864	10.432-11.296	10.851	0.007
	54 Ethyl Benzene	10.864	10.864	10.864	10.854	10.854	10.854	10.854	10.854	10.864	10.432-11.296	10.858	0.005
	56 m,p-xylene	10.944	10.944	10.944	10.934	10.934	10.934	10.934	10.934	10.944	10.512-11.376	10.938	0.005
	57 o-Xylene	11.437	11.437	11.427	11.427	11.427	11.427	11.427	11.417	11.437	11.005-11.869	11.428	0.006
	58 Styrene	11.467	11.467	11.457	11.457	11.457	11.457	11.457	11.447	11.467	11.035-11.899	11.458	0.006
	59 Isopropyl Benzene	11.819	11.809	11.809	11.809	11.809	11.799	11.809	11.799	11.819	11.280-12.357	11.807	0.006

RCA # 69333

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	60 Bromoform	11.879	11.869	11.869	11.869	11.869	11.859	11.869	11.859	11.879	11.340-12.418	11.868	0.006
	61 1,1,2,2-Tetrachloroeth	11.990	11.990	11.990	11.990	11.980	11.980	11.990	11.980	11.990	11.451-12.528	11.986	0.005
$	62 4-Bromofluorobenzene	12.110	12.110	12.110	12.100	12.100	12.100	12.100	12.100	12.110	11.678-12.542	12.104	0.005
	63 1,2,3-Trichloropropane	12.160	12.160	12.160	12.150	12.150	12.150	12.150	12.150	12.160	11.622-12.699	12.154	0.005
	65 Trans-1,4-Dichloro 2-B	12.211	12.211	12.211	12.211	12.201	12.201	12.201	12.191	12.211	11.672-12.749	12.204	0.007
	66 N-Propyl Benzene	12.271	12.271	12.261	12.261	12.261	12.261	12.261	12.251	12.271	11.732-12.810	12.262	0.006
	67 Bromobenzene	12.361	12.351	12.351	12.351	12.351	12.341	12.351	12.341	12.361	11.823-12.900	12.350	0.006
	68 1,3,5-Trimethyl Benzen	12.442	12.442	12.432	12.432	12.432	12.432	12.432	12.422	12.442	11.903-12.980	12.433	0.006
	69 2-Chloro Toluene	12.502	12.502	12.492	12.492	12.492	12.492	12.492	12.482	12.502	11.963-13.041	12.493	0.006
	70 4-Chloro Toluene	12.552	12.542	12.542	12.532	12.532	12.532	12.532	12.532	12.552	12.014-13.091	12.537	0.008
	71 T-Butyl Benzene	12.854	12.854	12.844	12.844	12.844	12.844	12.844	12.834	12.854	12.315-13.392	12.845	0.006
	72 1,2,4-Trimethylbenzene	12.904	12.894	12.894	12.894	12.894	12.884	12.894	12.884	12.904	12.365-13.443	12.893	0.006
	73 S-Butyl Benzene	13.095	13.095	13.095	13.095	13.085	13.085	13.085	13.085	13.095	12.556-13.634	13.090	0.005
	74 4-Isopropyl Toluene	13.246	13.246	13.236	13.236	13.236	13.236	13.236	13.226	13.246	12.707-13.784	13.237	0.006
	75 1,3-Dichlorobenzene	13.397	13.387	13.387	13.387	13.387	13.377	13.387	13.377	13.397	12.858-13.935	13.385	0.006
	64 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.768	13.336-14.200	+++++	+++++
*	76 d4-1,4-Dichlorobenzene	13.467	13.467	13.467	13.467	13.457	13.457	13.467	13.457	13.467	12.928-14.006	13.463	0.005
	77 1,4-Dichlorobenzene	13.507	13.507	13.507	13.497	13.497	13.497	13.497	13.497	13.507	12.968-14.046	13.501	0.005
	178 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.100	13.561-14.639	+++++	+++++
	78 N-Butyl Benzene	13.728	13.718	13.718	13.718	13.708	13.708	13.718	13.708	13.728	13.190-14.267	13.716	0.007
$	79 d4-1,2-Dichlorobenzene	13.919	13.909	13.909	13.909	13.909	13.909	13.909	13.899	13.919	13.380-14.458	13.909	0.005
	80 1,2-Dichlorobenzene	13.949	13.949	13.949	13.939	13.939	13.939	13.939	13.929	13.949	13.411-14.488	13.942	0.007
	81 1,2-Dibromo 3-Chloropr	14.854	14.854	14.844	14.844	14.844	14.844	14.844	14.834	14.854	14.315-15.393	14.845	0.006

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
82 1,2,4-Trichlorobenzene	15.899	15.899	15.899	15.889	15.889	15.889	15.889	15.889	15.899	15.360-16.438	15.893	0.005
83 Hexachloro 1,3-Butadie	16.050	16.050	16.050	16.050	16.040	16.040	16.040	16.040	16.050	15.511-16.588	16.045	0.005
84 Naphthalene	16.231	16.221	16.221	16.221	16.221	16.211	16.221	16.211	16.231	15.692-16.769	16.219	0.006
85 1,2,3-Trichlorobenzene	16.512	16.512	16.512	16.512	16.502	16.502	16.502	16.492	16.512	15.973-17.051	16.506	0.007

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0010723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD001
Inj Date : 23-JUL-2010 20:28
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:28 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 20:28 Cal File: 0010723.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.995	2.995	(0.453)	1408	1.00000	0.9540
2 Chloromethane	50	3.296	3.296	(0.498)	4906	1.00000	1.236
3 Vinyl Chloride	62	3.417	3.417	(0.517)	3458	1.00000	1.101
4 Bromomethane	94	3.899	3.899	(0.590)	2127	1.00000	1.247
5 Chloroethane	64	3.970	3.970	(0.600)	2437	1.00000	1.188
6 Trichlorofluoromethane	101	4.231	4.231	(0.640)	3360	1.00000	1.107
7 Acrolein	56	4.623	4.623	(0.699)	2329	5.00000	6.152
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.701)	2901	1.00000	1.221
9 Acetone	43	4.673	4.673	(0.707)	3505	5.00000	5.503(M)
10 1,1-Dichloroethene	96	4.834	4.834	(0.731)	2358	1.00000	1.094
11 Bromoethane	108	5.055	5.055	(0.764)	1610	1.00000	1.008
12 Iodomethane	142	5.146	5.146	(0.778)	2301	1.00000	0.9027
13 Methylene Chloride	84	5.266	5.266	(0.796)	3788	1.00000	1.560
14 Acrylonitrile	53	5.347	5.347	(0.808)	446	1.00000	0.7931(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.387	5.387	(0.815)	3168	1.00000	0.9555(Q)
	15 Carbon Disulfide	76	5.367	5.367	(0.812)	7676	1.00000	1.148(Q)
	17 Trans-1,2-Dichloroethene	96	5.548	5.548	(0.839)	1855	1.00000	1.010
	18 Vinyl Acetate	43	5.869	5.869	(0.888)	3138	1.00000	0.9751
	19 1,1-Dichloroethane	63	5.929	5.929	(0.897)	3627	1.00000	1.073
	20 2-Butanone	43	6.271	6.271	(0.948)	3717	5.00000	5.186(T)
	21 2,2-Dichloropropane	77	6.442	6.442	(0.974)	2020	1.00000	0.9766
	22 Cis-1,2-Dichloroethene	96	6.482	6.482	(0.980)	1600	1.00000	0.9880
*	23 Pentafluorobenzene	168	6.613	6.613	(1.000)	113813	50.0000	
	24 Chloroform	83	6.633	6.633	(1.003)	2843	1.00000	1.035(Q)
	26 Bromochloromethane	128	6.794	6.794	(1.027)	686	1.00000	0.8922(Q)
$	25 Dibromofluoromethane	111	6.834	6.834	(1.033)	73863	50.0000	54.452(Q)
	27 1,1,1-Trichloroethane	97	7.015	7.015	(1.061)	2223	1.00000	1.041(M)
	29 1,1-Dichloropropene	75	7.166	7.166	(0.939)	2255	1.00000	0.9864
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	1957	1.00000	0.9844
$	31 d4-1,2-Dichloroethane	65	7.296	7.296	(1.103)	81673	50.0000	55.025
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	1923	1.00000	0.9582
	33 Benzene	78	7.427	7.427	(0.974)	5924	1.00000	1.072
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	168346	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	1468	1.00000	0.9064
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	1766	1.00000	1.013
	37 Bromodichloromethane	83	8.392	8.392	(1.100)	1755	1.00000	0.9420
	39 Dibromomethane	93	8.462	8.462	(1.109)	852	1.00000	0.9849
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	404	1.00000	0.6620(Q)
	41 4-Methyl-2-Pentanone	58	8.643	8.643	(1.133)	2382	5.00000	5.352(Q)
	42 Cis 1,3-dichloropropene	75	8.894	8.894	(1.166)	1694	1.00000	0.8328
$	43 d8-Toluene	98	9.176	9.176	(1.203)	189101	50.0000	51.122
	44 Toluene	92	9.256	9.256	(1.213)	4231	1.00000	1.290
	45 Trans 1,3-Dichloropropene	75	9.387	9.387	(1.231)	1503	1.00000	0.8790(Q)
	46 2-Hexanone	43	9.527	9.527	(0.884)	6953	5.00000	5.978(M)
	47 1,1,2-Trichloroethane	97	9.568	9.568	(1.254)	905	1.00000	0.8863
	48 1,3-Dichloropropane	76	9.829	9.829	(0.912)	1945	1.00000	0.9712
	49 Tetrachloroethene	166	9.949	9.949	(0.924)	1755	1.00000	1.110
	50 Chlorodibromomethane	129	10.161	10.161	(0.943)	1215	1.00000	0.9018
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	1013	1.00000	0.9262(T)
*	52 d5-Chlorobenzene	117	10.774	10.774	(1.000)	142296	50.0000	
	53 Chlorobenzene	112	10.814	10.814	(1.004)	4123	1.00000	1.235
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	6269	1.00000	1.111
	55 1,1,1,2-Tetrachloroethane	131	10.844	10.844	(1.007)	1389	1.00000	1.087
	56 m,p-xylene	106	10.934	10.934	(1.015)	3903	2.00000	1.892(Q)
	57 o-Xylene	106	11.417	11.417	(1.060)	1700	1.00000	0.7929(Q)
	58 Styrene	104	11.447	11.447	(1.062)	2884	1.00000	0.8700
	59 Isopropyl Benzene	105	11.799	11.799	(0.877)	5129	1.00000	1.064
	60 Bromoform	173	11.859	11.859	(0.881)	842	1.00000	1.086
	61 1,1,2,2-Tetrachloroethane	83	11.980	11.980	(0.890)	1717	1.00000	1.233(M)
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.123)	78200	50.0000	46.957
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.903)	282	1.00000	1.022(QM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.191	12.191	(0.906)	407	1.00000	0.9508 (QM)
	66 N-Propyl Benzene	91	12.251	12.251	(0.910)	6239	1.00000	1.002
	67 Bromobenzene	156	12.341	12.341	(0.917)	1399	1.00000	1.041
	68 1,3,5-Trimethyl Benzene	105	12.422	12.422	(0.923)	3814	1.00000	0.9746
	69 2-Chloro Toluene	91	12.482	12.482	(0.928)	4473	1.00000	1.094
	70 4-Chloro Toluene	91	12.532	12.532	(0.931)	3761	1.00000	0.9595
	71 T-Butyl Benzene	119	12.834	12.834	(0.954)	3230	1.00000	0.9648
	72 1,2,4-Trimethylbenzene	105	12.884	12.884	(0.957)	3492	1.00000	0.9064
	73 S-Butyl Benzene	105	13.085	13.085	(0.972)	5229	1.00000	0.9494
	74 4-Isopropyl Toluene	119	13.226	13.226	(0.983)	3188	1.00000	0.8436
	75 1,3-Dichlorobenzene	146	13.377	13.377	(0.994)	2237	1.00000	0.9743
*	76 d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	71616	50.0000	
	77 1,4-Dichlorobenzene	146	13.497	13.497	(1.003)	2370	1.00000	1.032 (Q)
	78 N-Butyl Benzene	91	13.708	13.708	(1.019)	4025	1.00000	0.9863
$	79 d4-1,2-Dichlorobenzene	152	13.899	13.899	(1.033)	66535	50.0000	51.077
	80 1,2-Dichlorobenzene	146	13.929	13.929	(1.035)	2202	1.00000	1.009
	81 1,2-Dibromo 3-Chloropropane	75	14.834	14.834	(1.102)	218	1.00000	0.9046 (Q)
	82 1,2,4-Trichlorobenzene	180	15.889	15.889	(1.181)	1382	1.00000	1.041
	83 Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.192)	838	1.00000	0.9370
	84 Naphthalene	128	16.211	16.211	(1.205)	2458	1.00000	1.020
	85 1,2,3-Trichlorobenzene	180	16.492	16.492	(1.226)	1376	1.00000	1.084

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0010723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD001
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	113813	-13.20
34 1,4-Difluorobenze	191559	95780	383118	168346	-12.12
52 d5-Chlorobenzene	161199	80600	322398	142296	-11.73
76 d4-1,4-Dichlorobe	88279	44140	176558	71616	-18.88

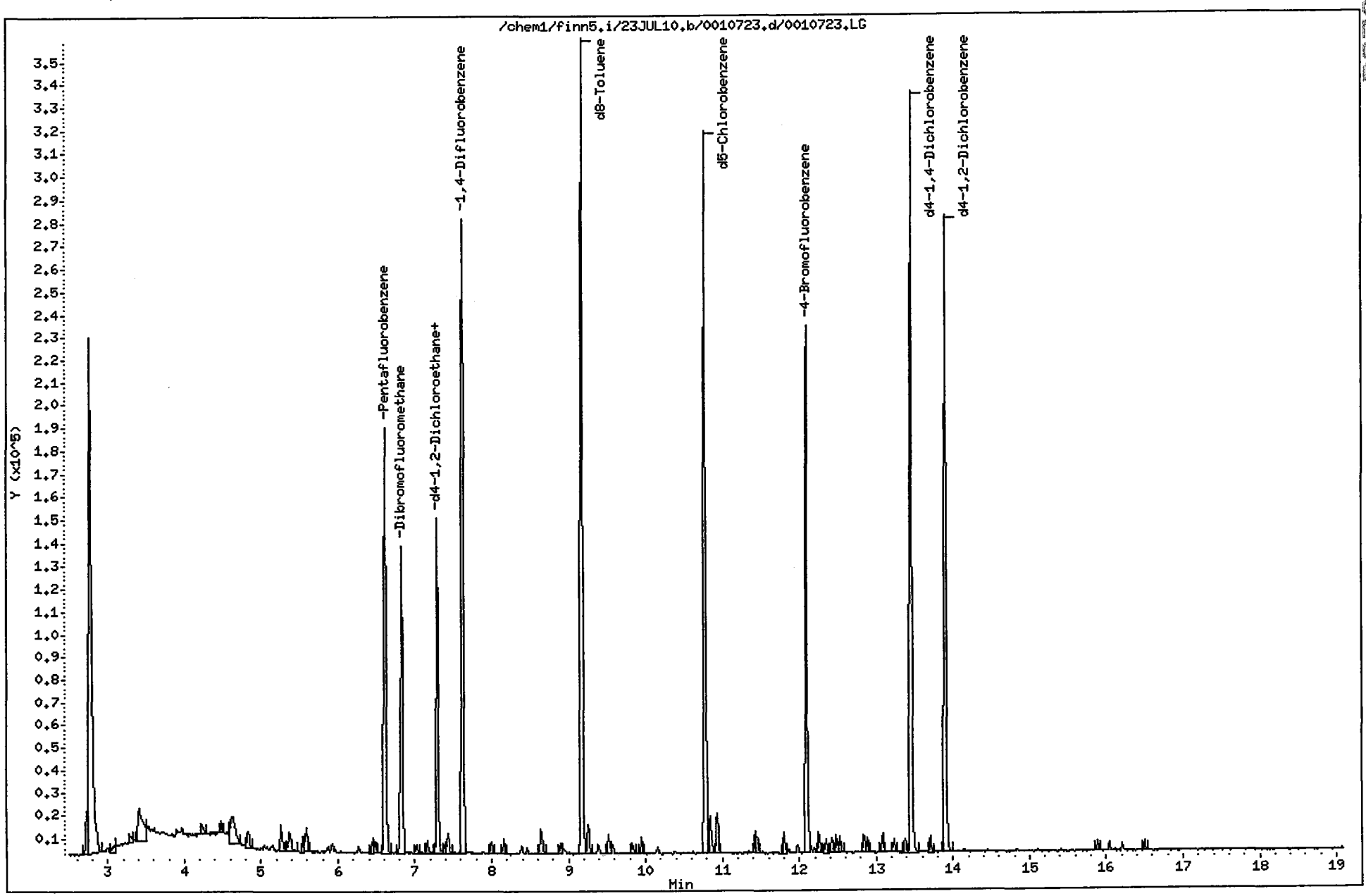
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.61	-0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.77	-0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Data File: /chem1/finn5.i/23JUL10.b/0010723.d
Date : 23-JUL-2010 20:28
Client ID: VSTD001
Sample Info: IC0723,5,5,0

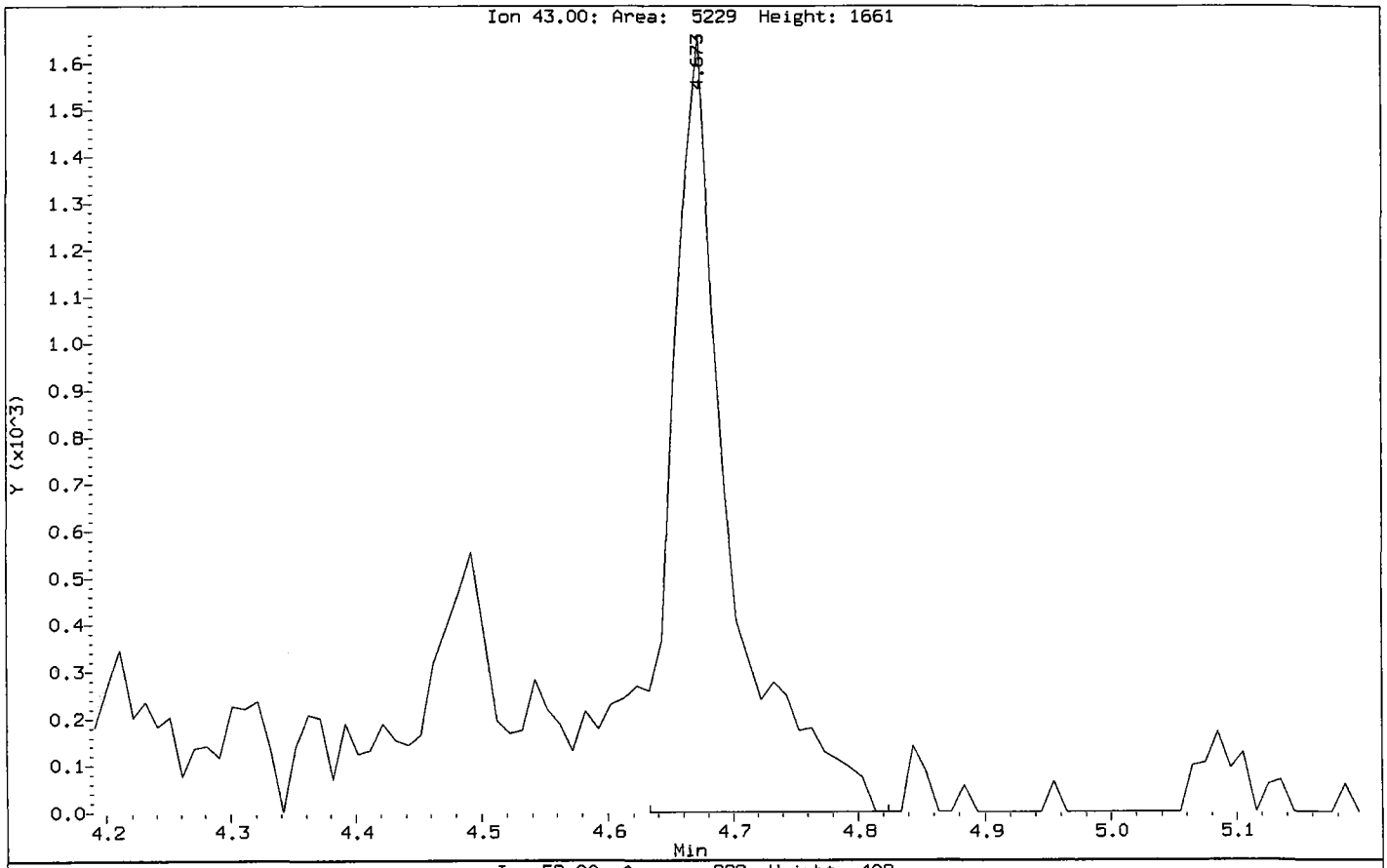
Instrument: finn5.i
Operator: PB
Column diameter: 0.18

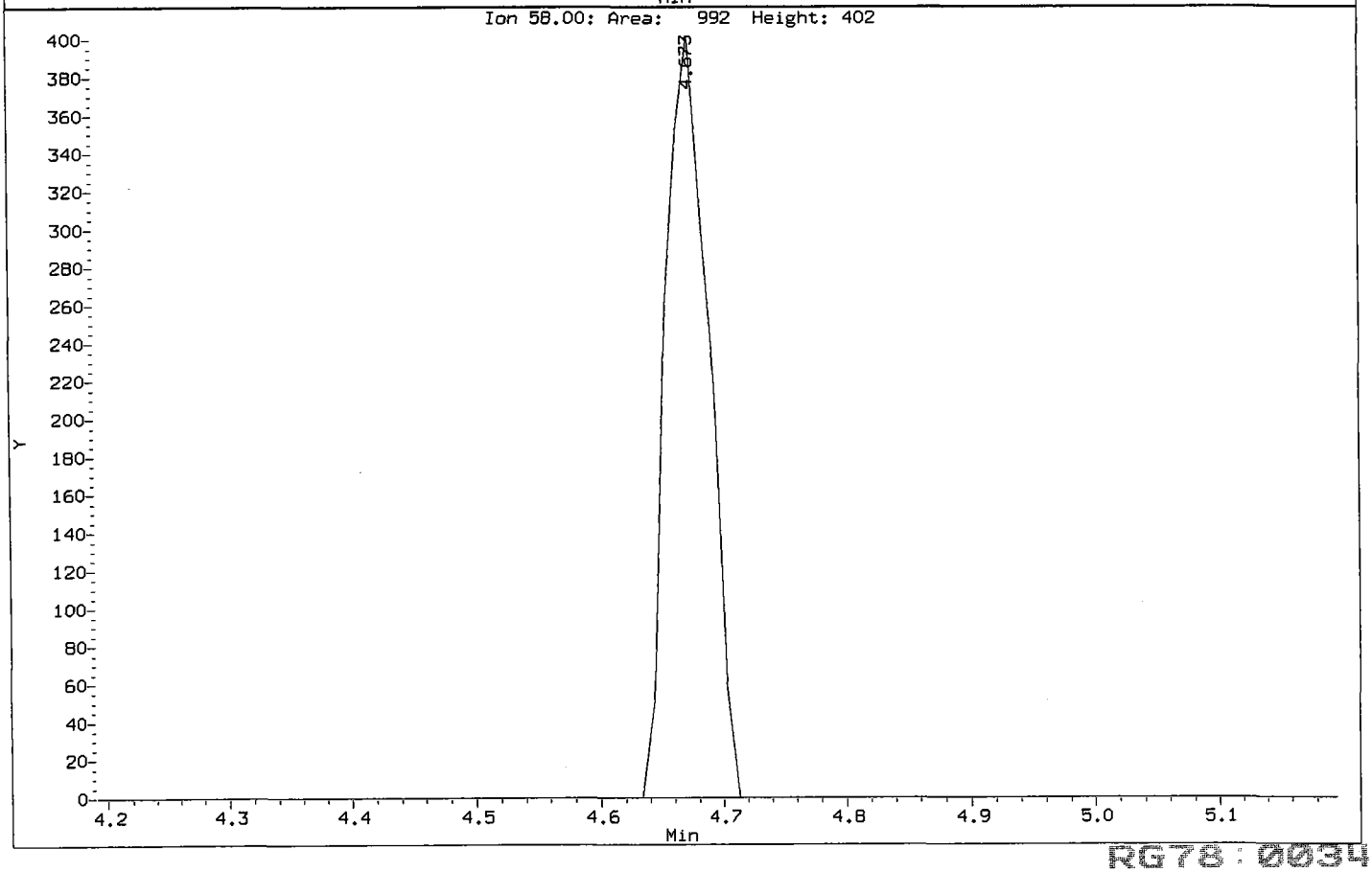
Column phase: Rtx502.2



Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

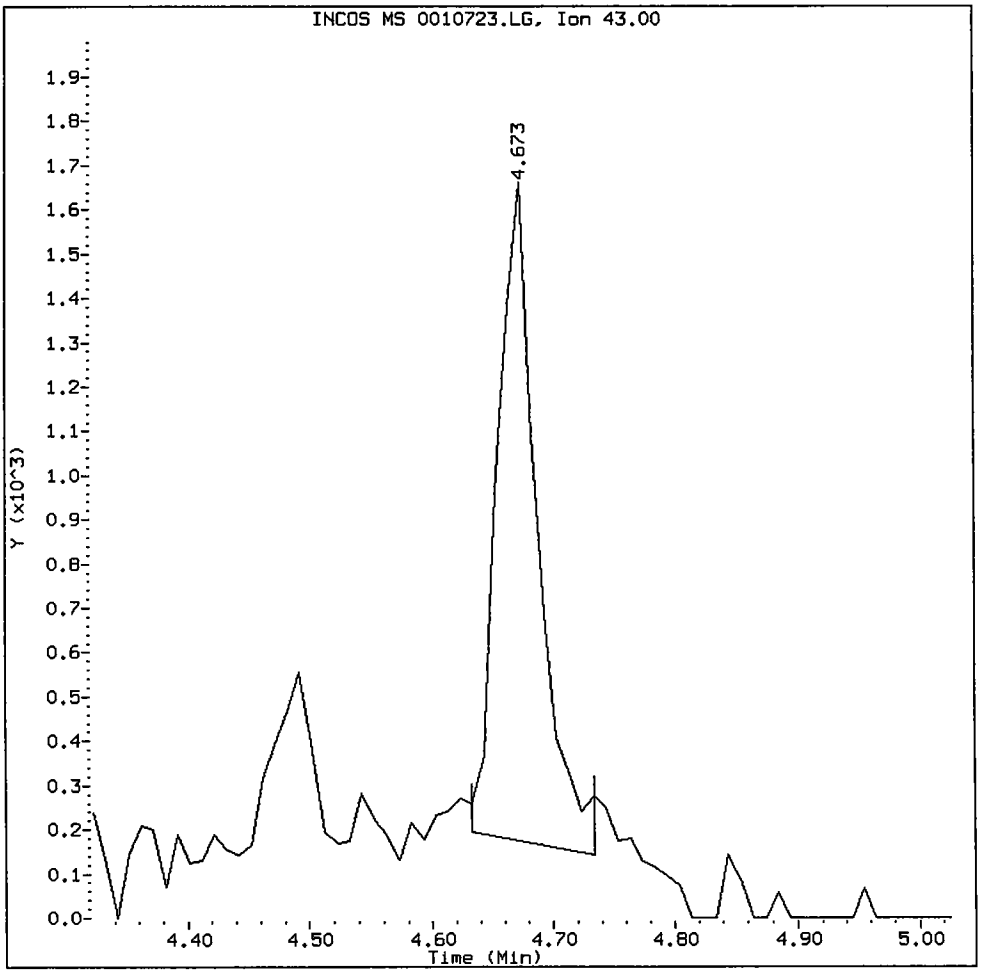
Compound: Acetone
CAS Number:





IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

Acetone Amount: 5.50 Area: 3505



MANUAL INTEGRATION for Acetone

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

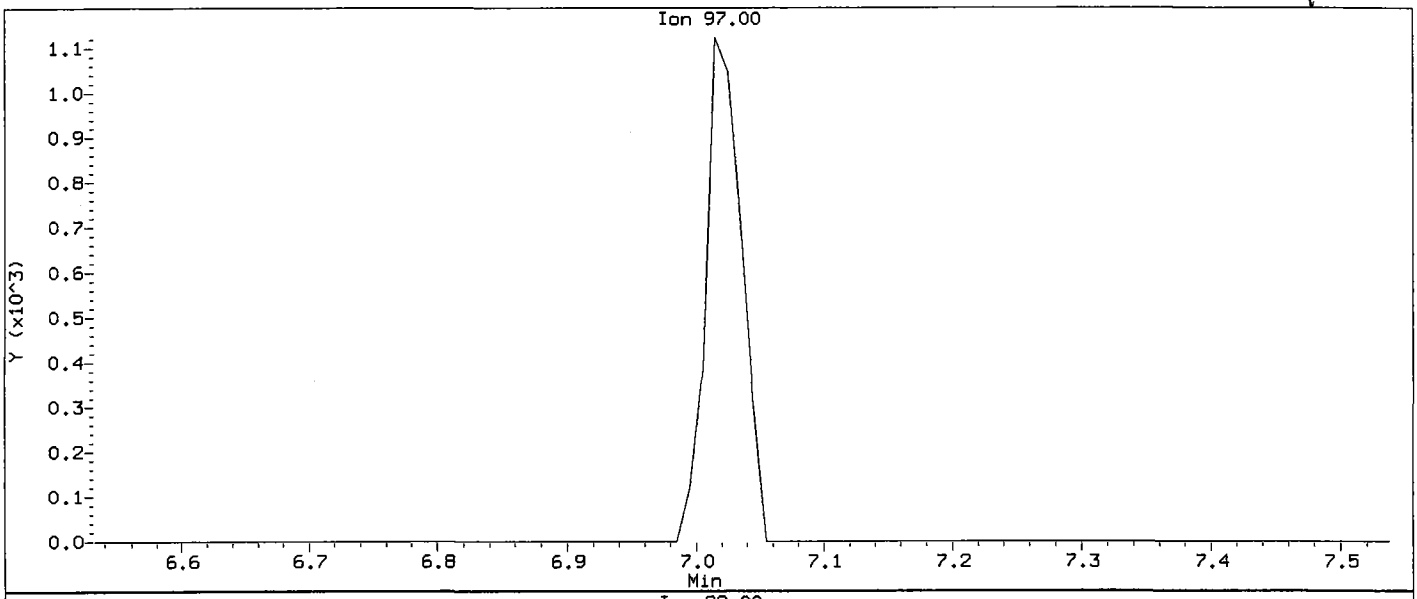
5. Other _____

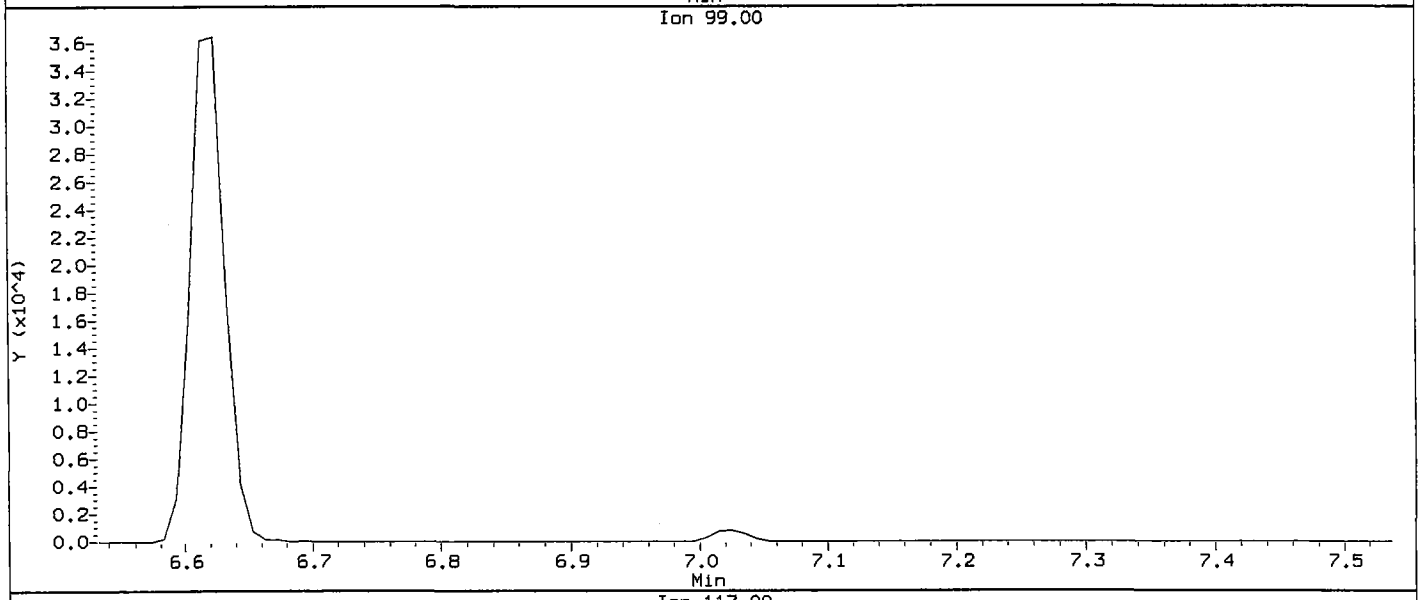
Analyst: _____ Date: 7/12/10

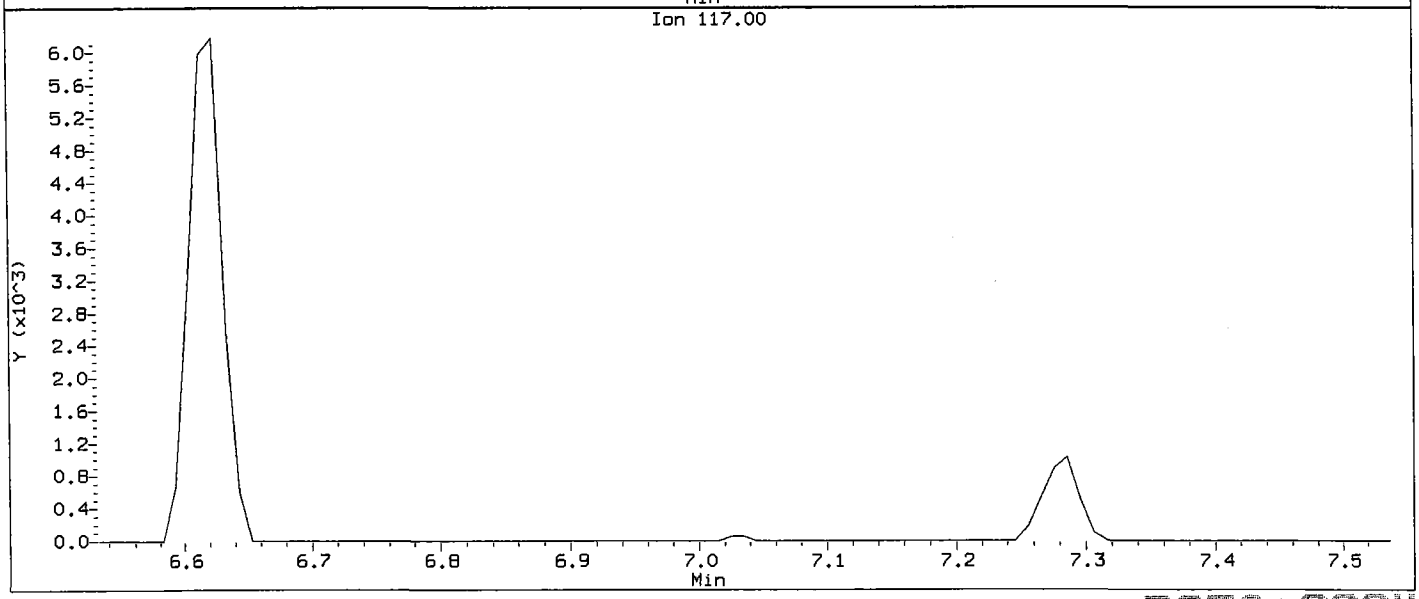
Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: 1,1,1-Trichloroethane
CAS Number:

7/24/10

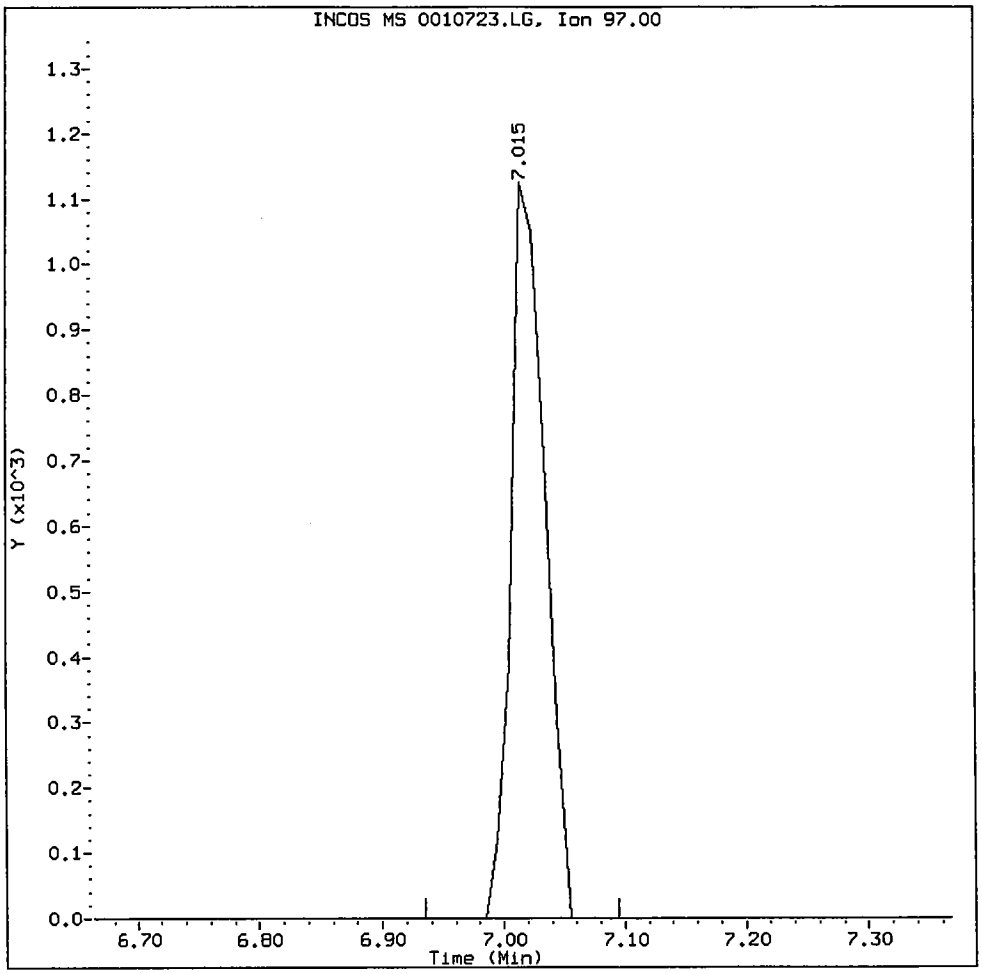






IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

1,1,1-Trichloroethane Amount: 1.04 Area: 2223



MANUAL INTEGRATION for 1,1,1-Trichloroethane

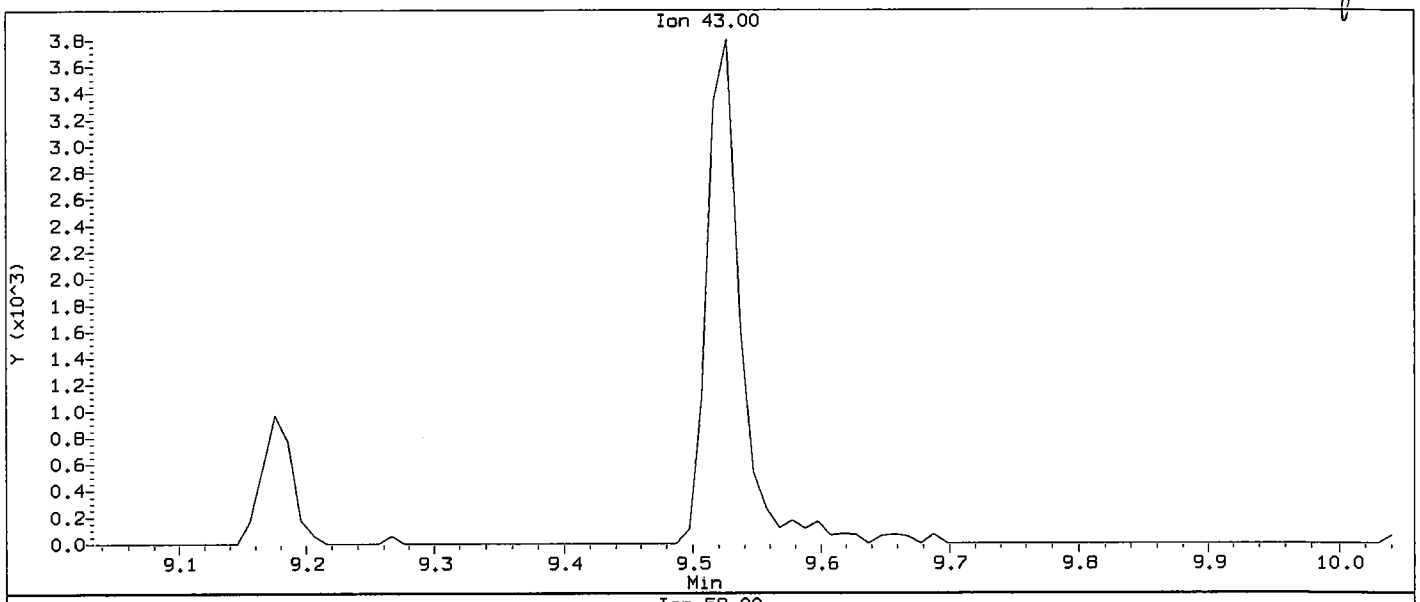
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

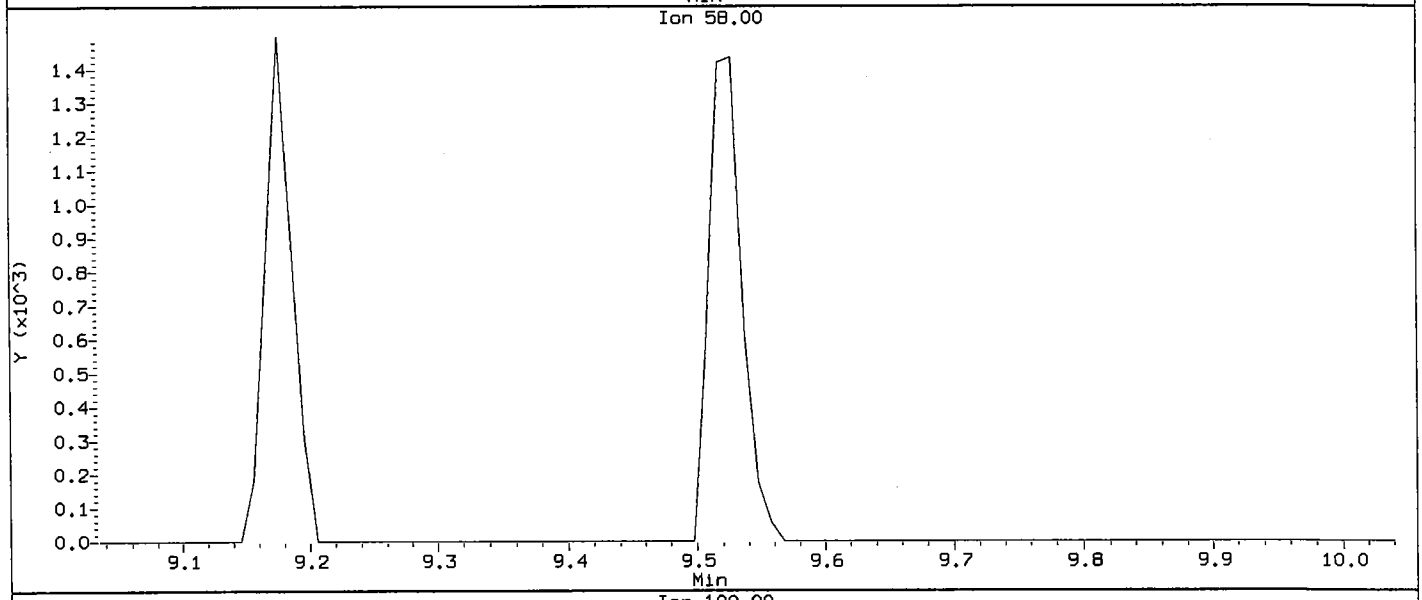
5. Other _____

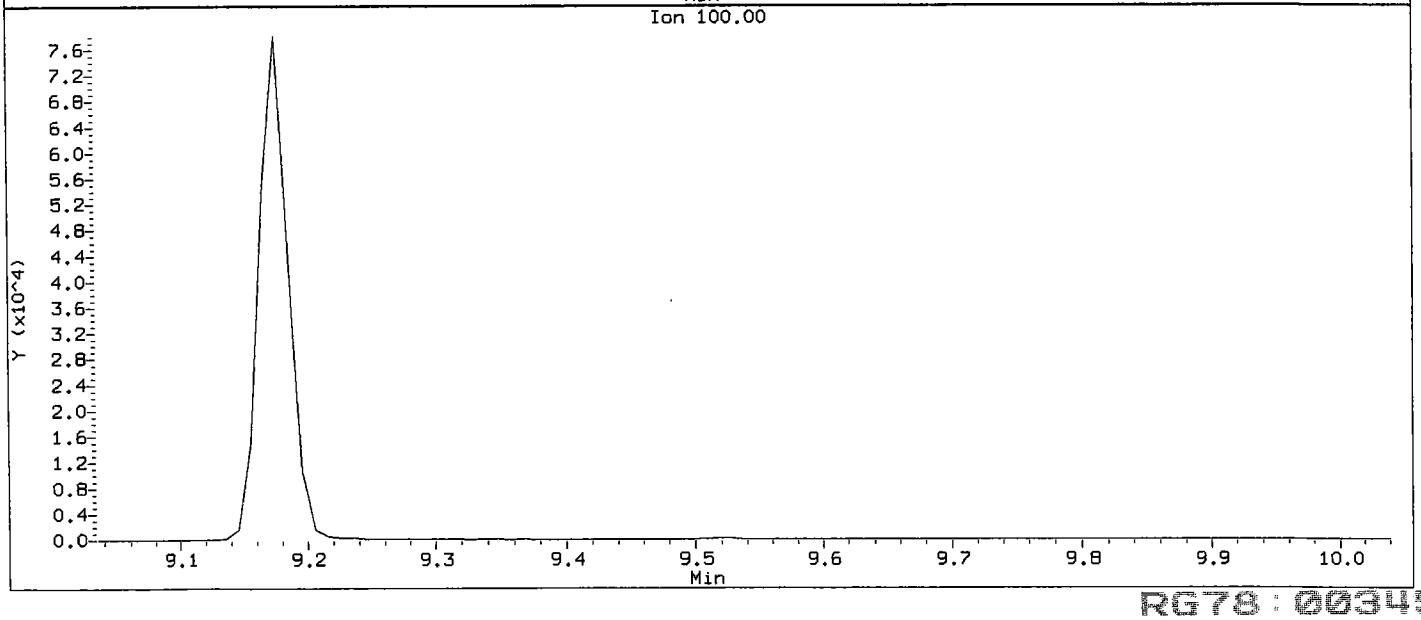
Analyst: _____ Date: 7/12/10

Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: 2-Hexanone
CAS Number:

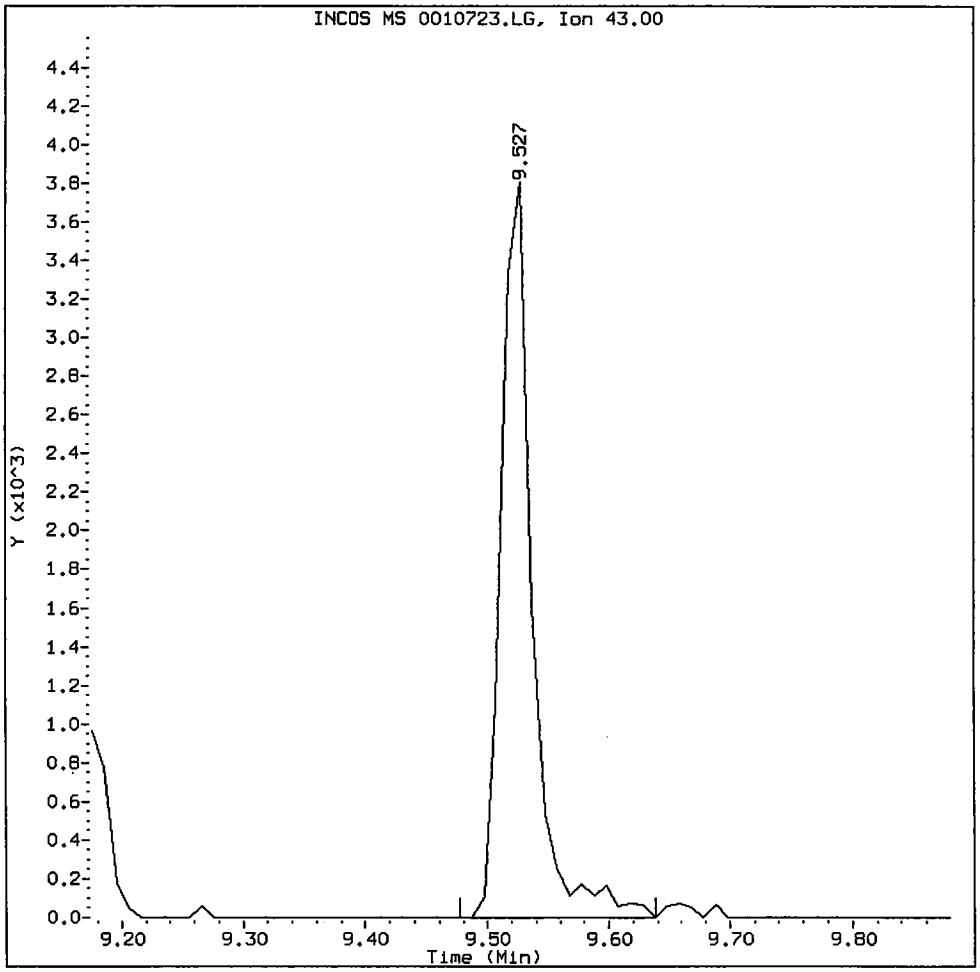






IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

2-Hexanone Amount: 5.98 Area: 6953



MANUAL INTEGRATION for 2-Hexanone

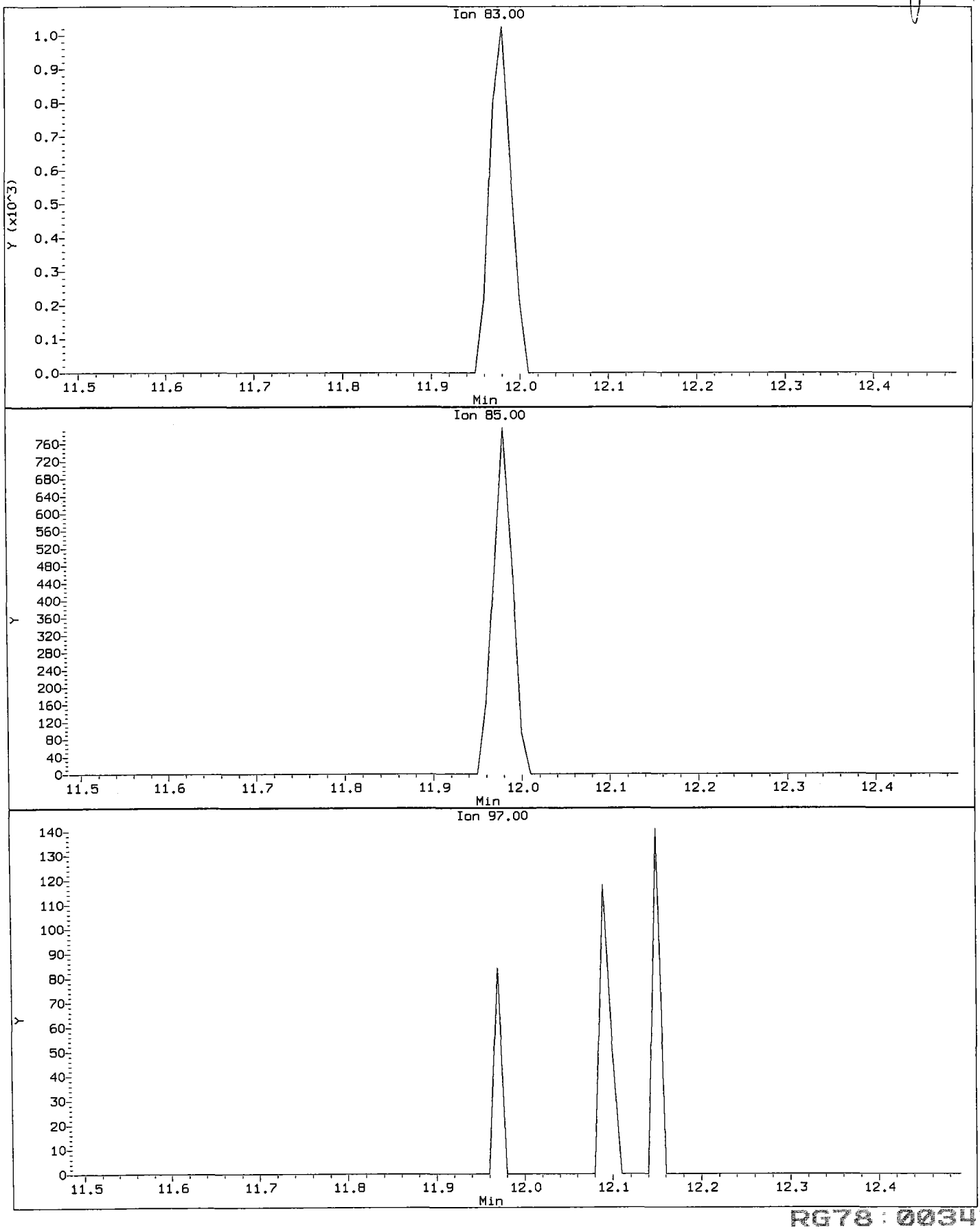
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/28/10

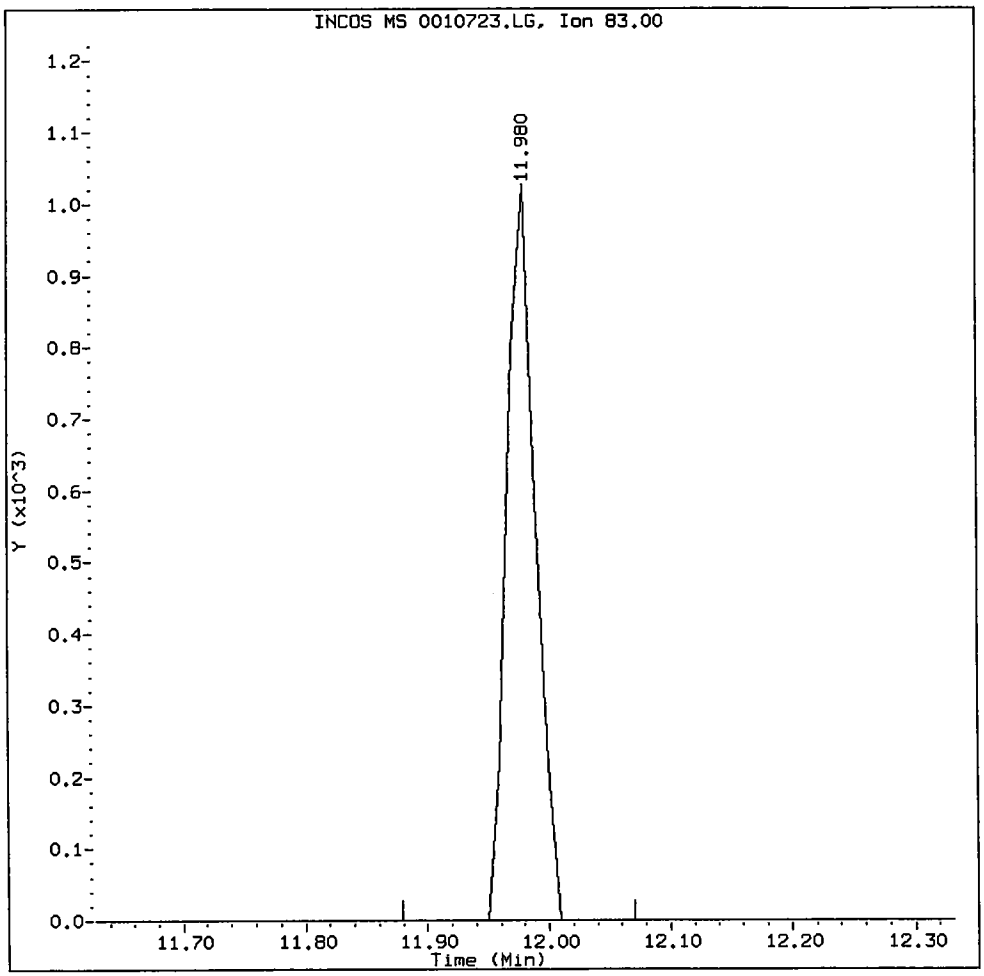
Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: 1,1,2,2-Tetrachloroethane
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

1,1,2,2-Tetrachloroethane Amount: 1.23 Area: 1717



MANUAL INTEGRATION for 1,1,2,2-Tetrachloroethane

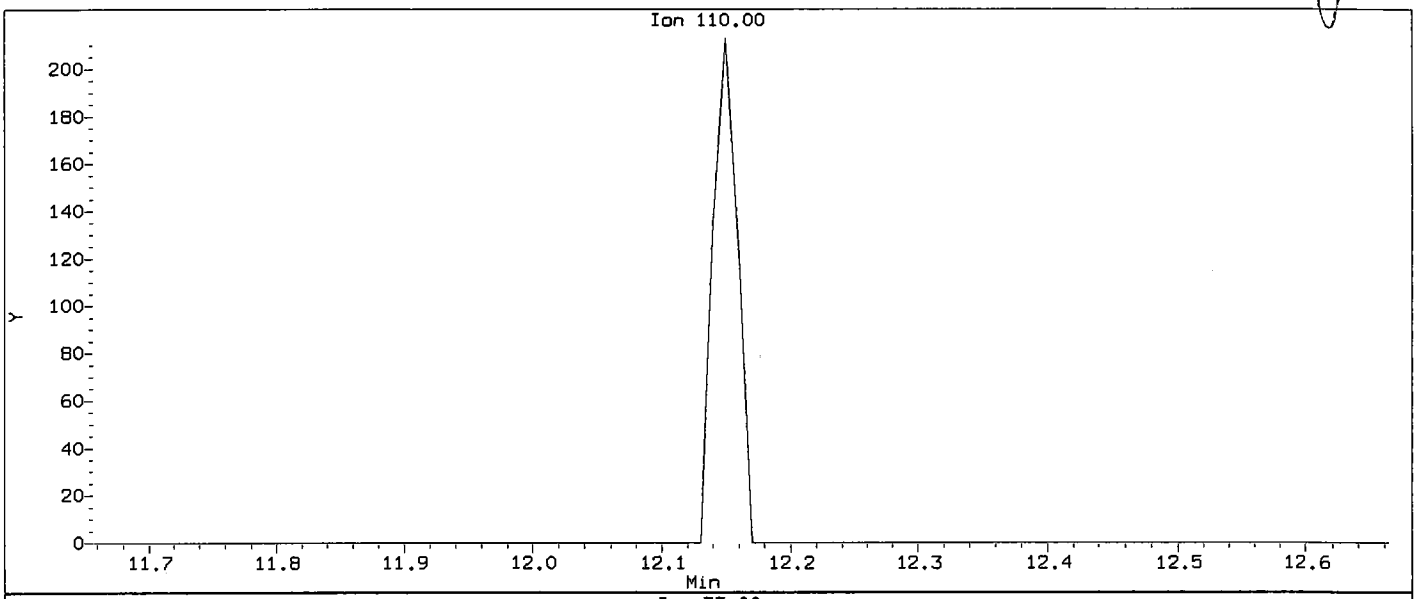
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

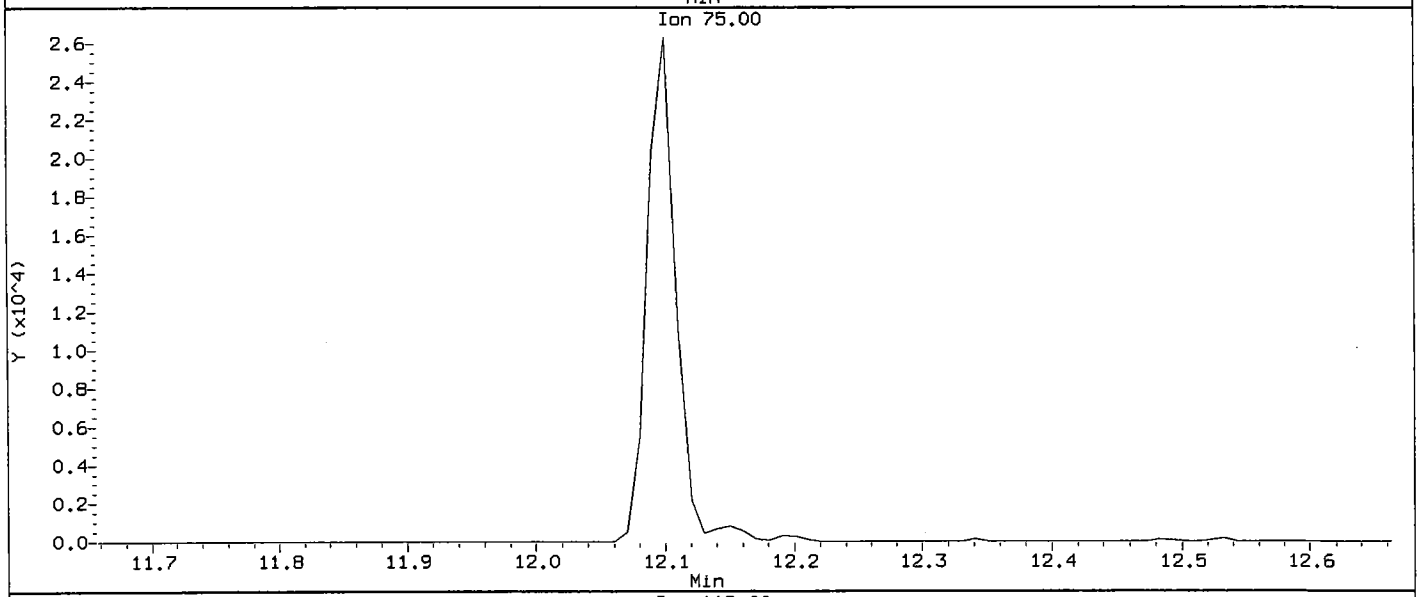
5. Other _____

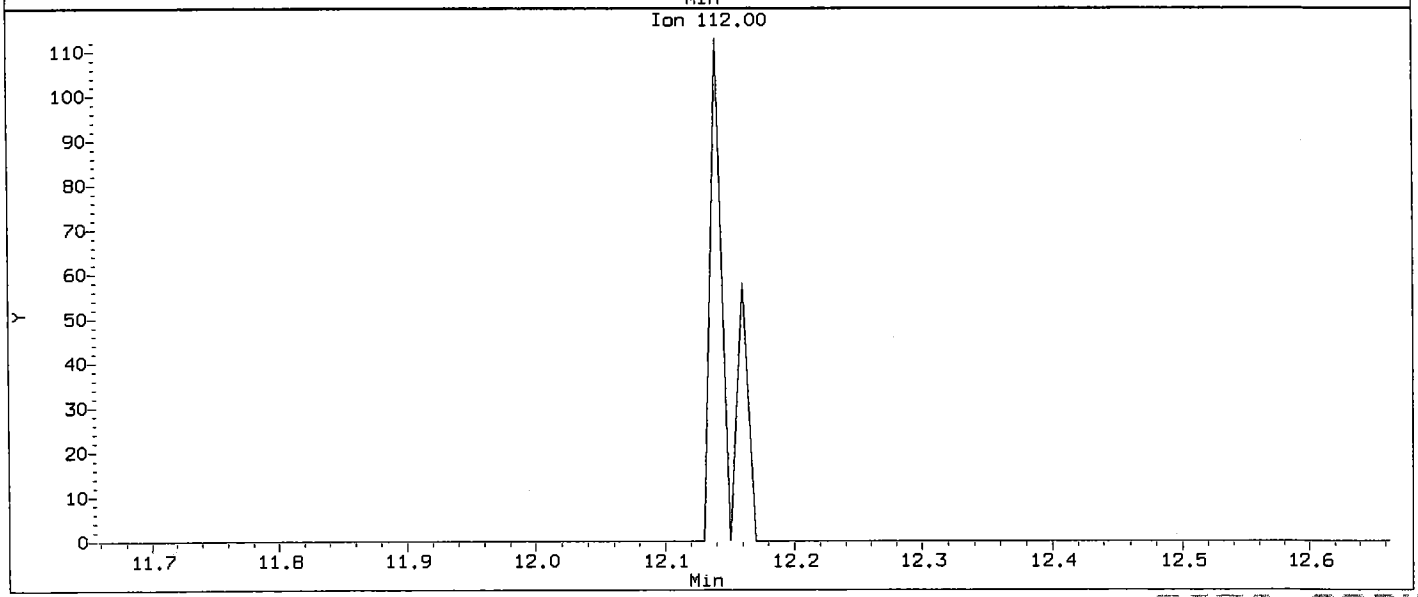
Analyst: _____ Date: 2/24/10

Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: 1,2,3-Trichloropropane
CAS Number:

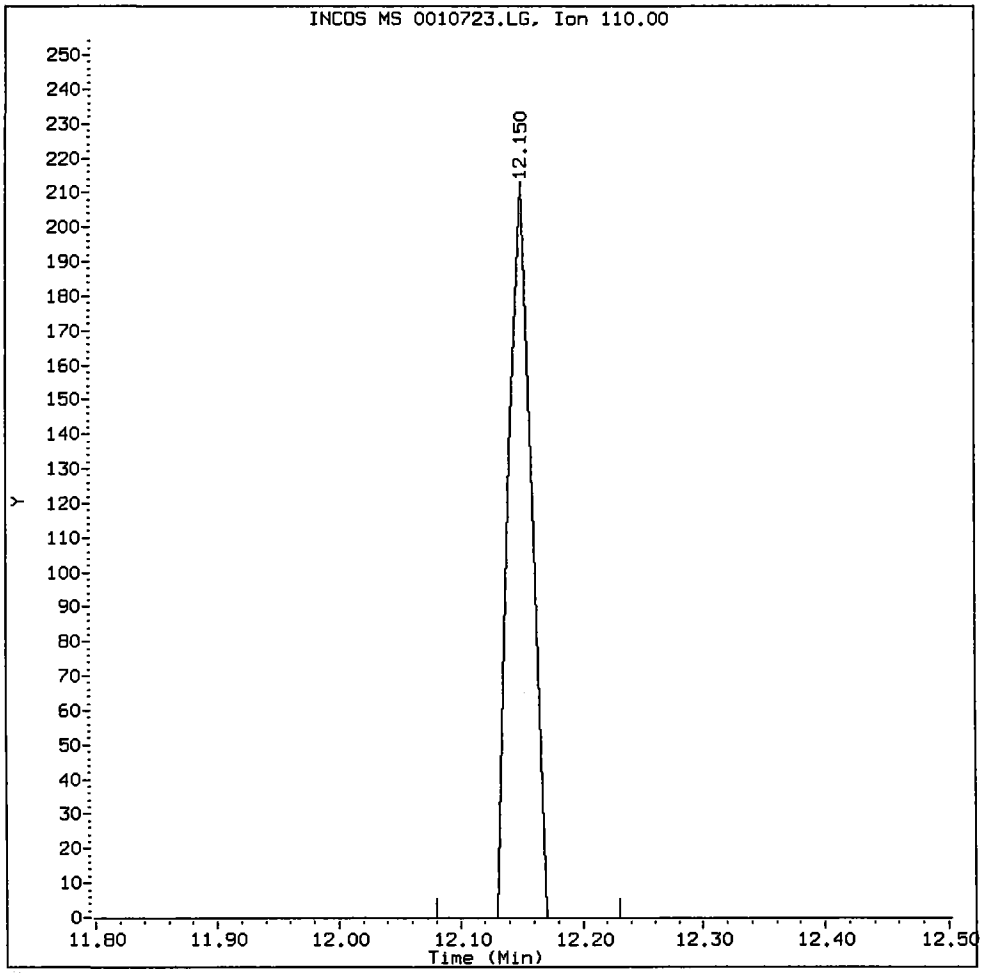






IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

1,2,3-Trichloropropane Amount: 1.02 Area: 282



MANUAL INTEGRATION for 1,2,3-Trichloropropane

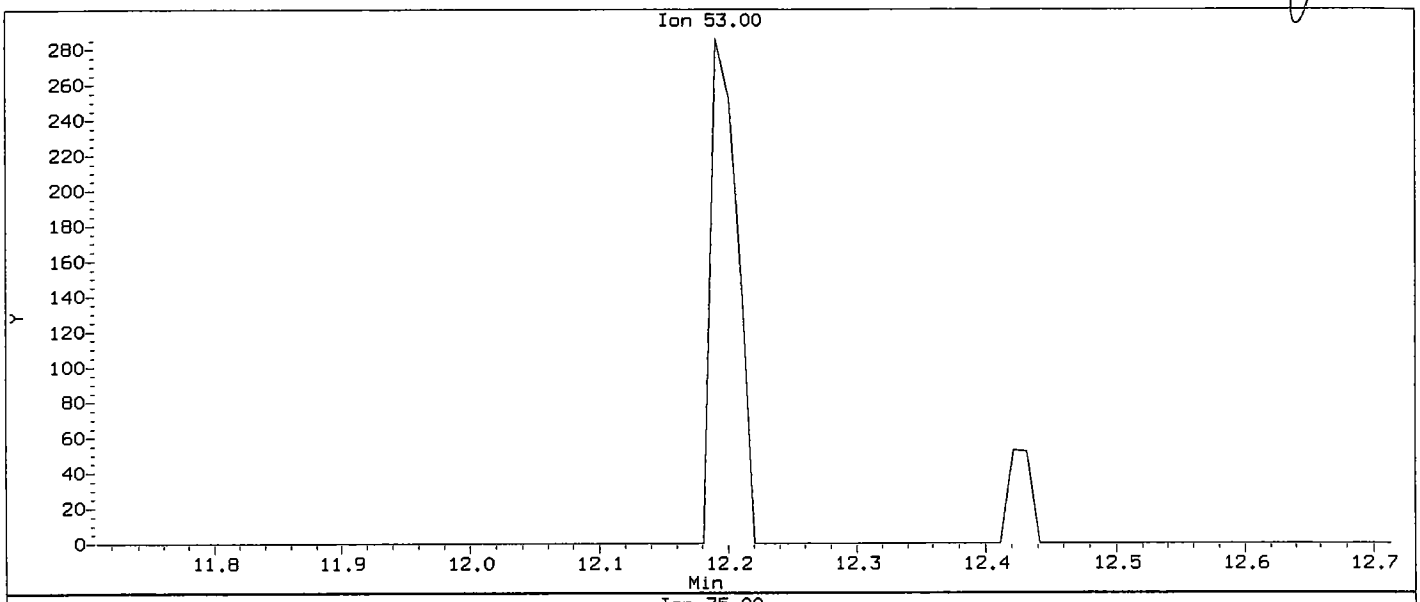
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

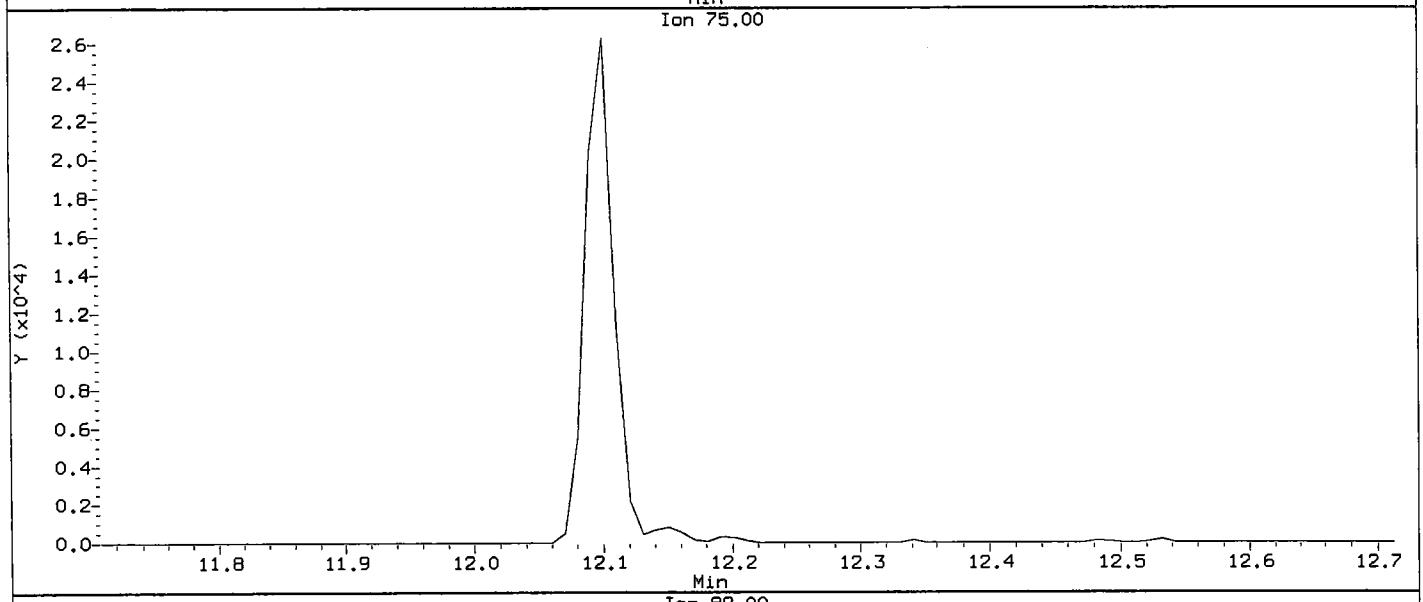
5. Other _____

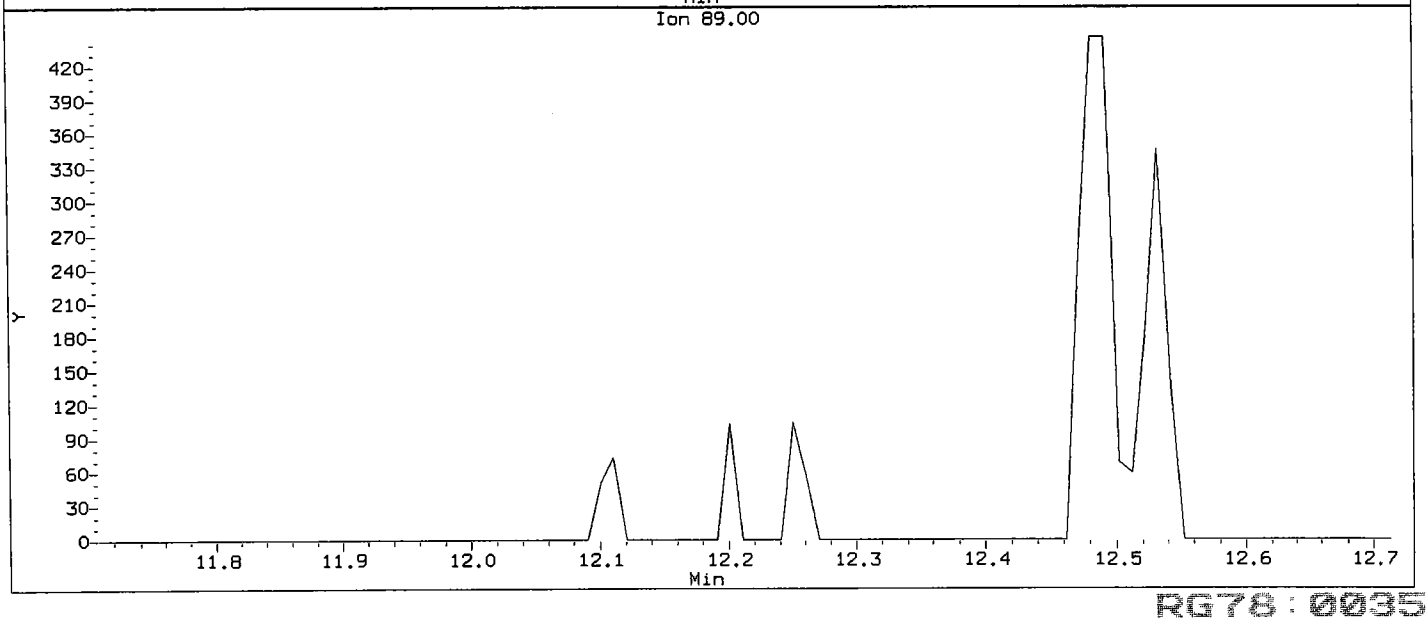
Analyst: _____ Date: 7/14/10

Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: Trans-1,4-Dichloro 2-Butene
CAS Number:

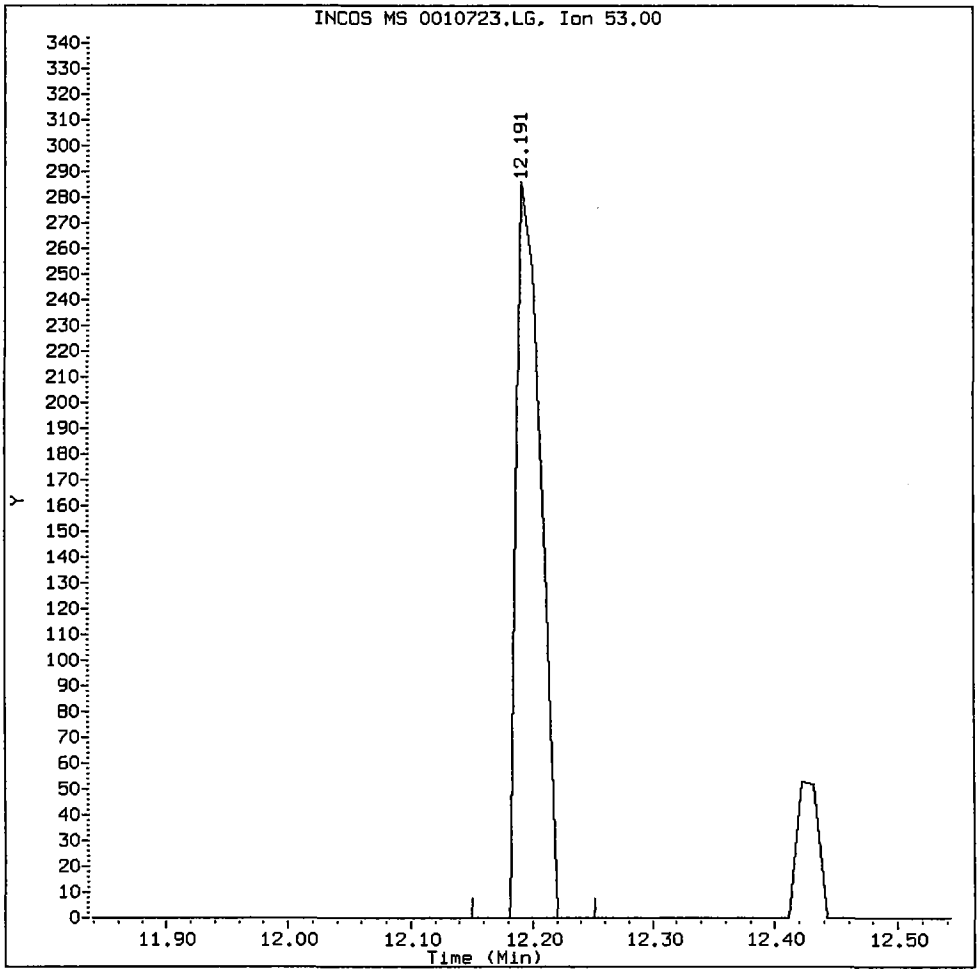






IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

Trans-1,4-Dichloro 2-Butene Amount: 0.95 Area: 407



MANUAL INTEGRATION for Trans-1,4-Dichloro 2-Butene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/24/10

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0020723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD002
Inj Date : 23-JUL-2010 20:02
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:28 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 20:02 Cal File: 0020723.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1	Dichlorodifluoromethane	85	3.005	3.005	(0.454)	3205	2.00000	2.133
2	Chloromethane	50	3.306	3.306	(0.499)	9090	2.00000	2.249
3	Vinyl Chloride	62	3.427	3.427	(0.517)	6731	2.00000	2.106(Q)
4	Bromomethane	94	3.909	3.909	(0.590)	3943	2.00000	2.272
5	Chloroethane	64	3.980	3.980	(0.601)	5065	2.00000	2.426
6	Trichlorofluoromethane	101	4.241	4.241	(0.640)	7223	2.00000	2.338
7	Acrolein	56	4.623	4.623	(0.698)	4563	10.0000	11.841
8	112Trichloro122Trifluoroethane	101	4.643	4.643	(0.701)	5478	2.00000	2.265
9	Acetone	43	4.673	4.673	(0.706)	7408	10.0000	11.426(M)
10	1,1-Dichloroethene	96	4.834	4.834	(0.730)	4722	2.00000	2.152
11	Bromoethane	108	5.055	5.055	(0.763)	3446	2.00000	2.120
12	Iodomethane	142	5.156	5.156	(0.778)	4941	2.00000	1.904
13	Methylene Chloride	84	5.266	5.266	(0.795)	6472	2.00000	2.619
14	Acrylonitrile	53	5.347	5.347	(0.807)	1125	2.00000	1.965(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	6868	2.00000	2.035(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	15337	2.00000	2.253(Q)
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	3823	2.00000	2.044
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	6836	2.00000	2.087
	19 1,1-Dichloroethane	63	5.929	5.929	(0.895)	7309	2.00000	2.124
	20 2-Butanone	43	6.281	6.281	(0.948)	7636	10.0000	10.467
	21 2,2-Dichloropropane	77	6.452	6.452	(0.974)	4155	2.00000	1.974
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	3254	2.00000	1.974
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	115854	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	6004	2.00000	2.148(Q)
	26 Bromochloromethane	128	6.804	6.804	(1.027)	1497	2.00000	1.913(Q)
$	25 Dibromofluoromethane	111	6.834	6.834	(1.032)	72845	50.0000	52.755(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.061)	4331	2.00000	1.992
	29 1,1-Dichloropropene	75	7.176	7.176	(0.941)	4580	2.00000	2.033
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	4142	2.00000	2.114
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	81644	50.0000	54.036
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	4173	2.00000	2.110
	33 Benzene	78	7.437	7.437	(0.975)	11737	2.00000	2.154
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	165926	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.050)	3316	2.00000	2.077
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	3461	2.00000	2.015
	37 Bromodichloromethane	83	8.402	8.402	(1.101)	3933	2.00000	2.142
	39 Dibromomethane	93	8.472	8.472	(1.111)	1720	2.00000	2.017
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	941	2.00000	1.564(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.134)	4544	10.0000	10.360(Q)
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	3760	2.00000	1.875
$	43 d8-Toluene	98	9.186	9.186	(1.204)	190730	50.0000	52.314
	44 Toluene	92	9.266	9.266	(1.215)	7331	2.00000	2.268
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.232)	3132	2.00000	1.858
	46 2-Hexanone	43	9.527	9.527	(0.884)	12031	10.0000	10.227(M)
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.256)	1959	2.00000	1.946
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	4110	2.00000	2.029
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	3034	2.00000	1.898
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	2530	2.00000	1.857
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	2176	2.00000	2.018(T)
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	143906	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	7227	2.00000	2.141
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	12527	2.00000	2.195
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.854	(1.007)	2668	2.00000	2.065
	56 m,p-xylene	106	10.934	10.934	(1.014)	8069	4.00000	3.868(Q)
	57 o-Xylene	106	11.427	11.427	(1.060)	3867	2.00000	1.783
	58 Styrene	104	11.457	11.457	(1.062)	6001	2.00000	1.790
	59 Isopropyl Benzene	105	11.809	11.809	(0.877)	10149	2.00000	2.058
	60 Bromoform	173	11.869	11.869	(0.881)	1646	2.00000	2.076
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	3293	2.00000	2.312
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	80106	50.0000	47.564
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.902)	662	2.00000	2.346(QM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.201	12.201	(0.906)	943	2.00000	2.154 (QM)
66	N-Propyl Benzene	91	12.261	12.261	(0.910)	12782	2.00000	2.008
67	Bromobenzene	156	12.351	12.351	(0.917)	2746	2.00000	1.998
68	1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.923)	7814	2.00000	1.952
69	2-Chloro Toluene	91	12.492	12.492	(0.928)	8221	2.00000	1.966
70	4-Chloro Toluene	91	12.532	12.532	(0.931)	8529	2.00000	2.127
71	T-Butyl Benzene	119	12.844	12.844	(0.954)	6991	2.00000	2.042
72	1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	7457	2.00000	1.892
73	S-Butyl Benzene	105	13.085	13.085	(0.972)	10809	2.00000	1.919
74	4-Isopropyl Toluene	119	13.236	13.236	(0.983)	7447	2.00000	1.926
75	1,3-Dichlorobenzene	146	13.387	13.387	(0.994)	4492	2.00000	1.913
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	73251	50.0000	
77	1,4-Dichlorobenzene	146	13.497	13.497	(1.002)	4608	2.00000	1.961
78	N-Butyl Benzene	91	13.718	13.718	(1.019)	8103	2.00000	1.941
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	67411	50.0000	50.594
80	1,2-Dichlorobenzene	146	13.939	13.939	(1.035)	4695	2.00000	2.104
81	1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.102)	613	2.00000	2.487
82	1,2,4-Trichlorobenzene	180	15.889	15.889	(1.180)	2979	2.00000	2.193
83	Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.191)	2016	2.00000	2.204
84	Naphthalene	128	16.221	16.221	(1.204)	5145	2.00000	2.088
85	1,2,3-Trichlorobenzene	180	16.502	16.502	(1.225)	2989	2.00000	2.302

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0020723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD002
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	115854	-11.64
34 1,4-Difluorobenze	191559	95780	383118	165926	-13.38
52 d5-Chlorobenzene	161199	80600	322398	143906	-10.73
76 d4-1,4-Dichlorobe	88279	44140	176558	73251	-17.02

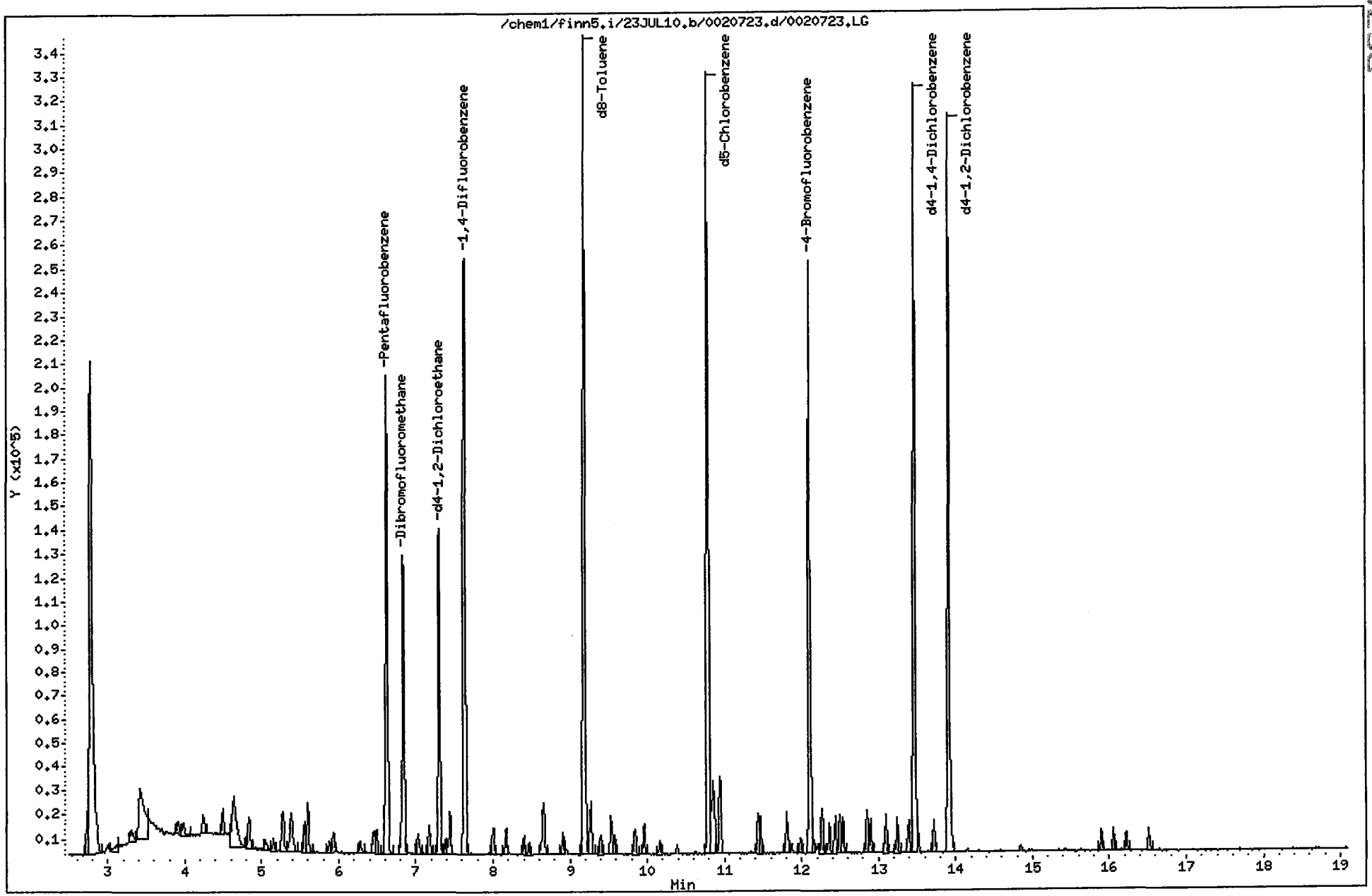
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Data File: /chem1/finn5.i/23JUL10.b/0020723.d
Date : 23-JUL-2010 20:02
Client ID: VSTD002
Sample Info: IC0723,5,5,0

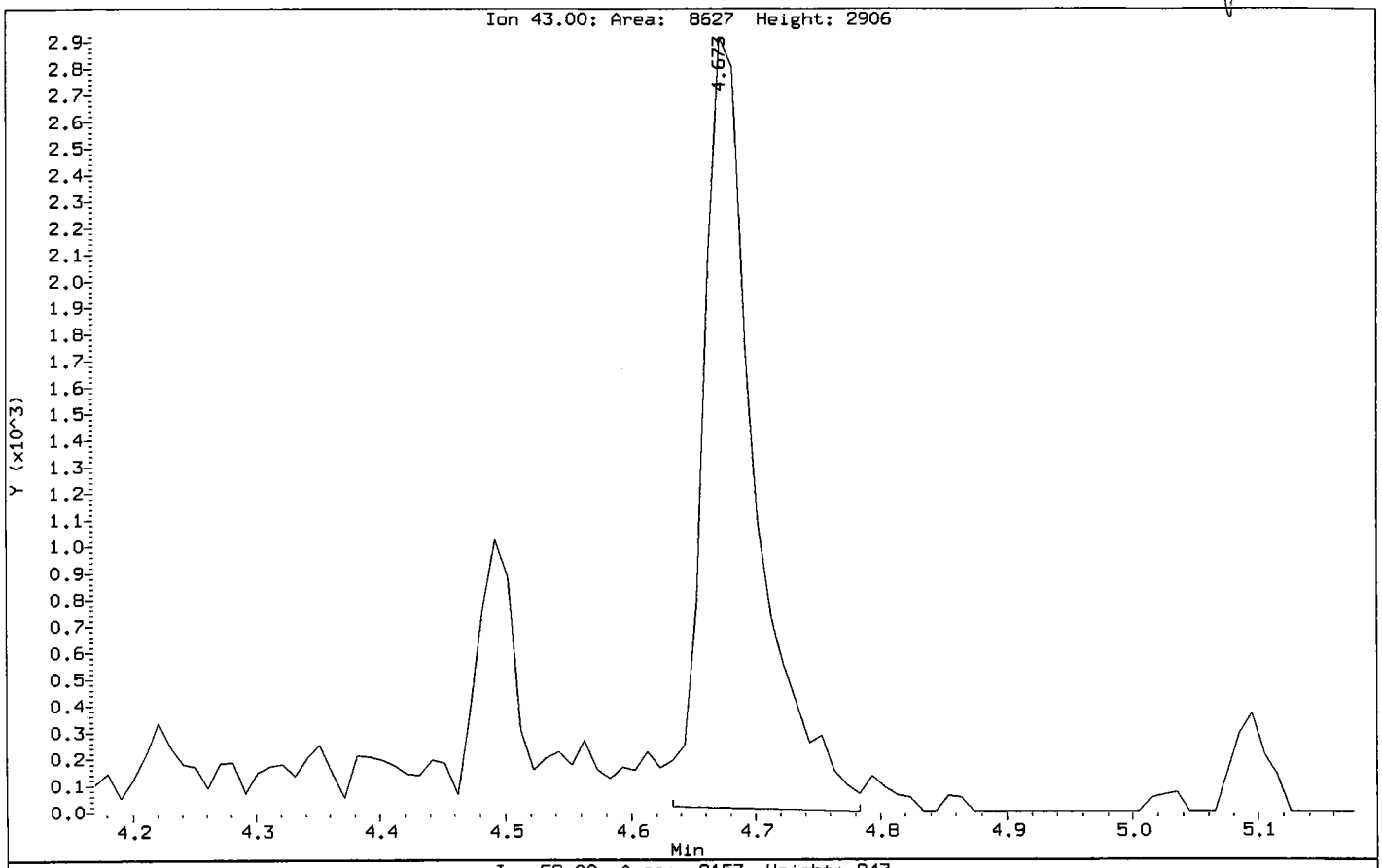
Instrument: finn5.i
Operator: PB
Column diameter: 0.18

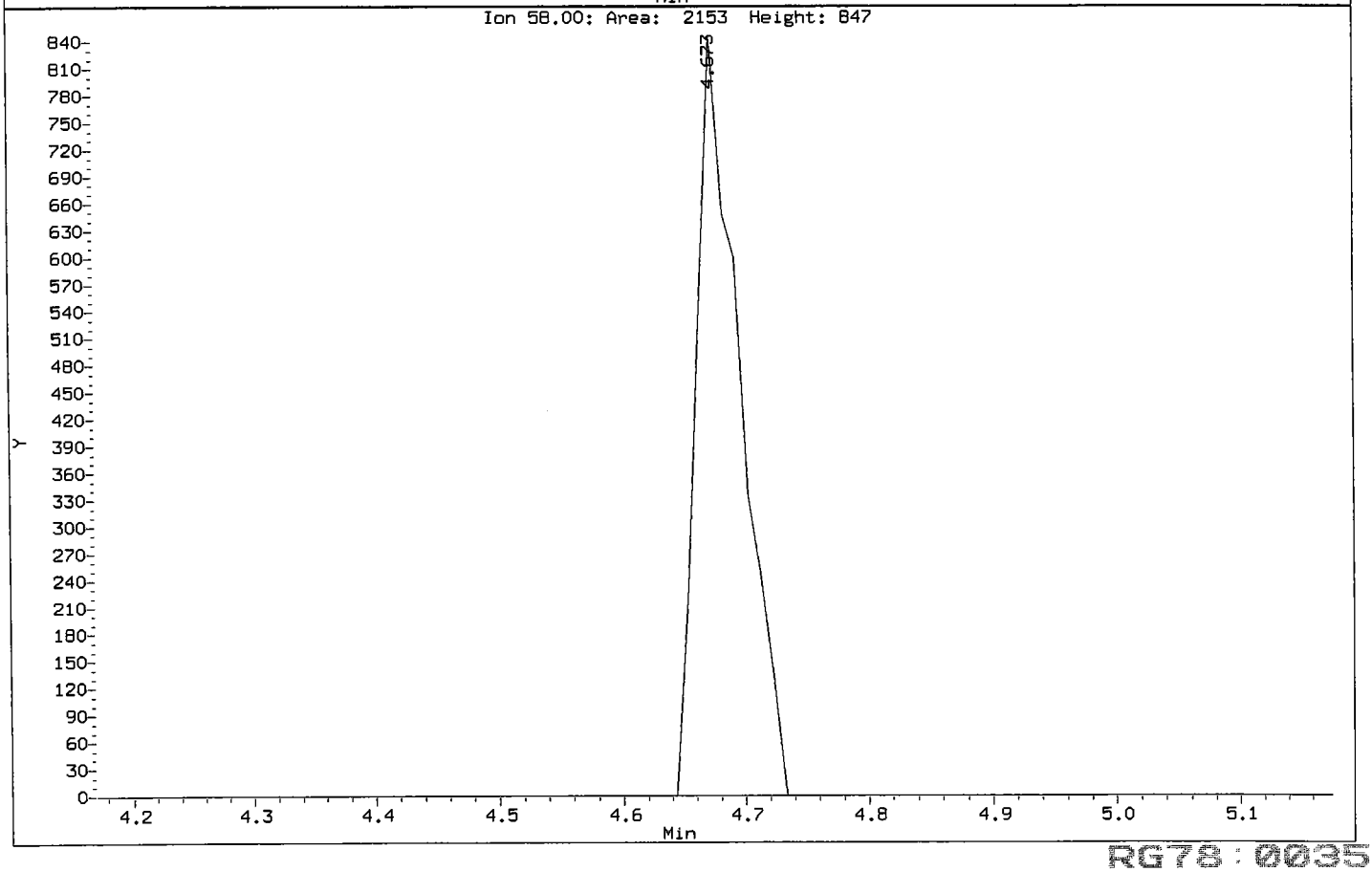
Column phase: Rtx502.2



Data File: /chem1/finn5.i/23JUL10.b/0020723.d/0020723.LG
Injection Date: 23-JUL-2010 20:02
Instrument: finn5.i
Client Sample ID: VSTD002

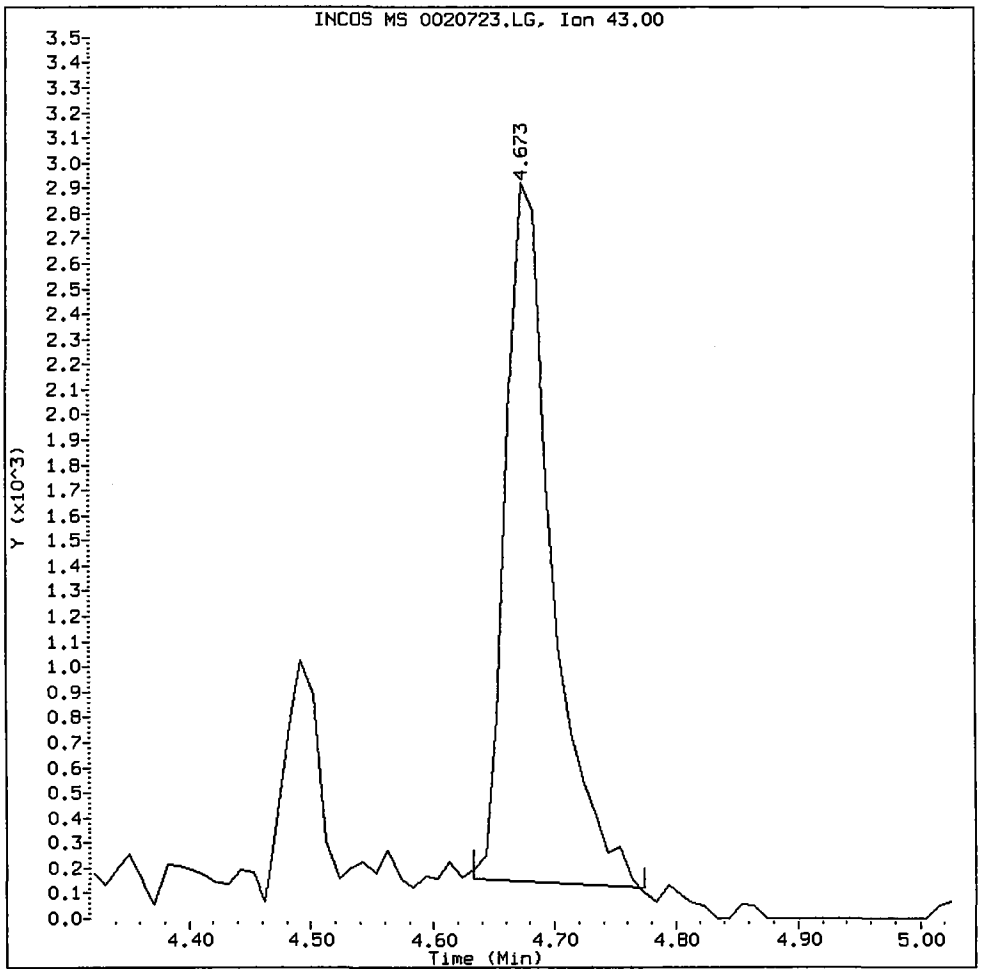
Compound: Acetone
CAS Number:





IC0723, /chem1/finn5.i/23JUL10.b/0020723.d

Acetone Amount: 11.43 Area: 7408



MANUAL INTEGRATION for Acetone

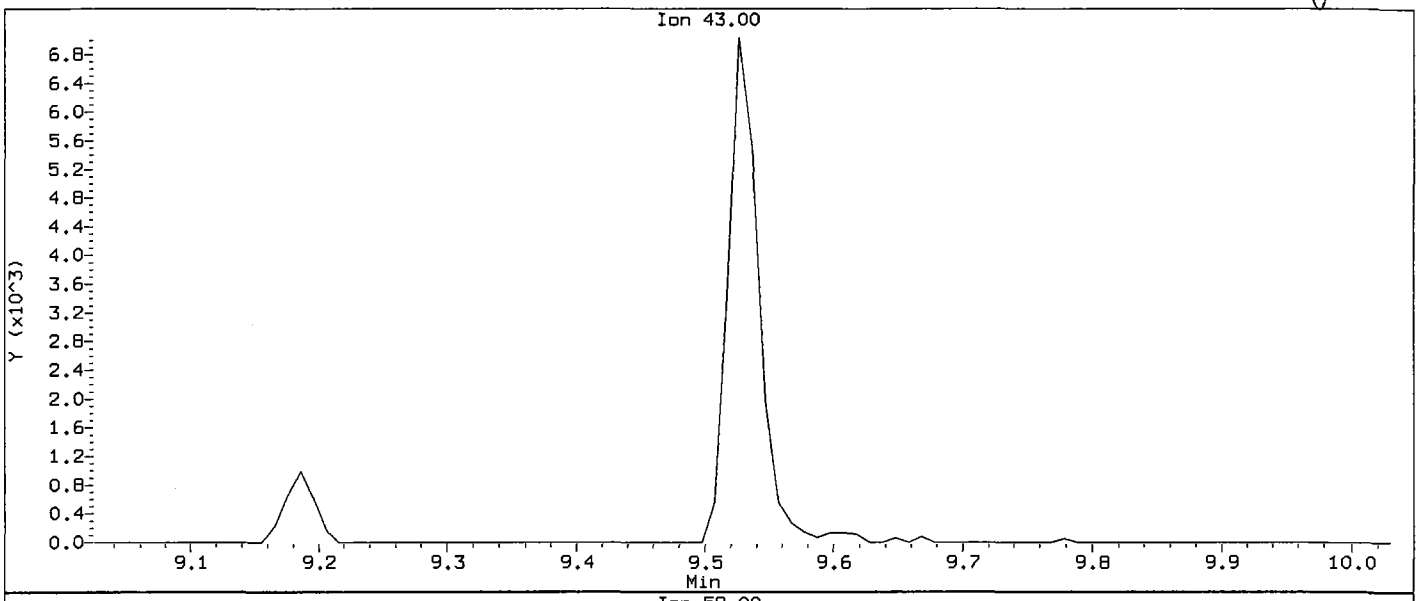
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

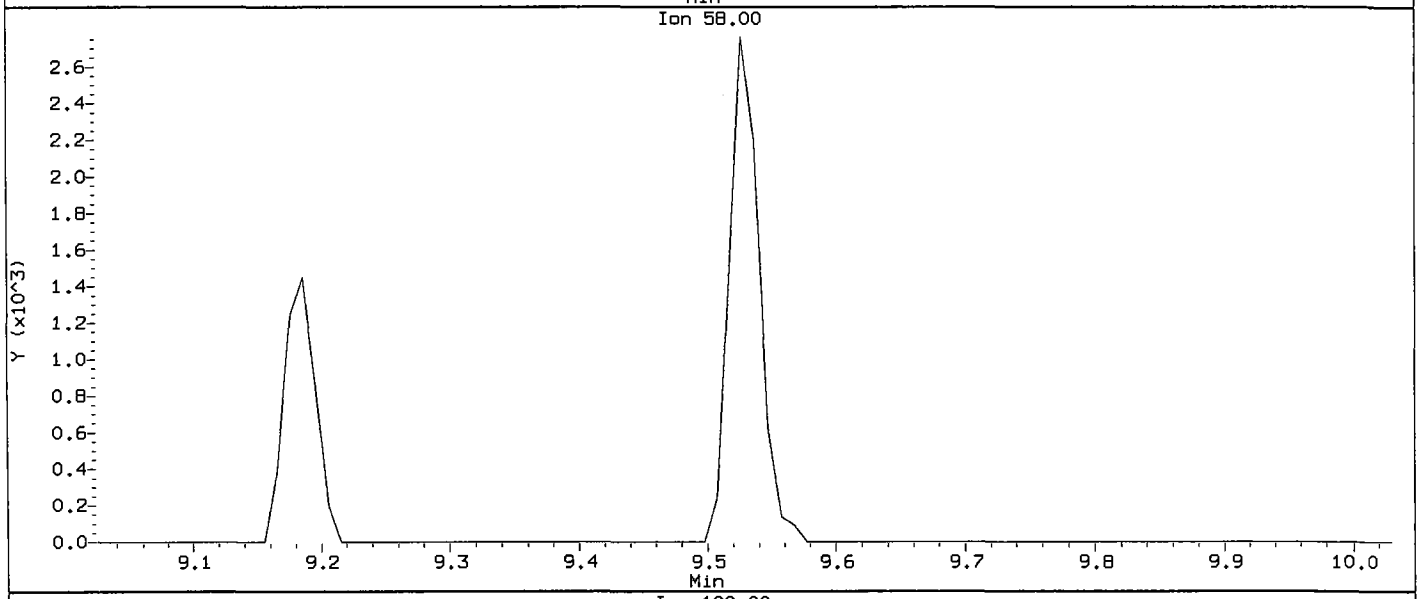
5. Other _____

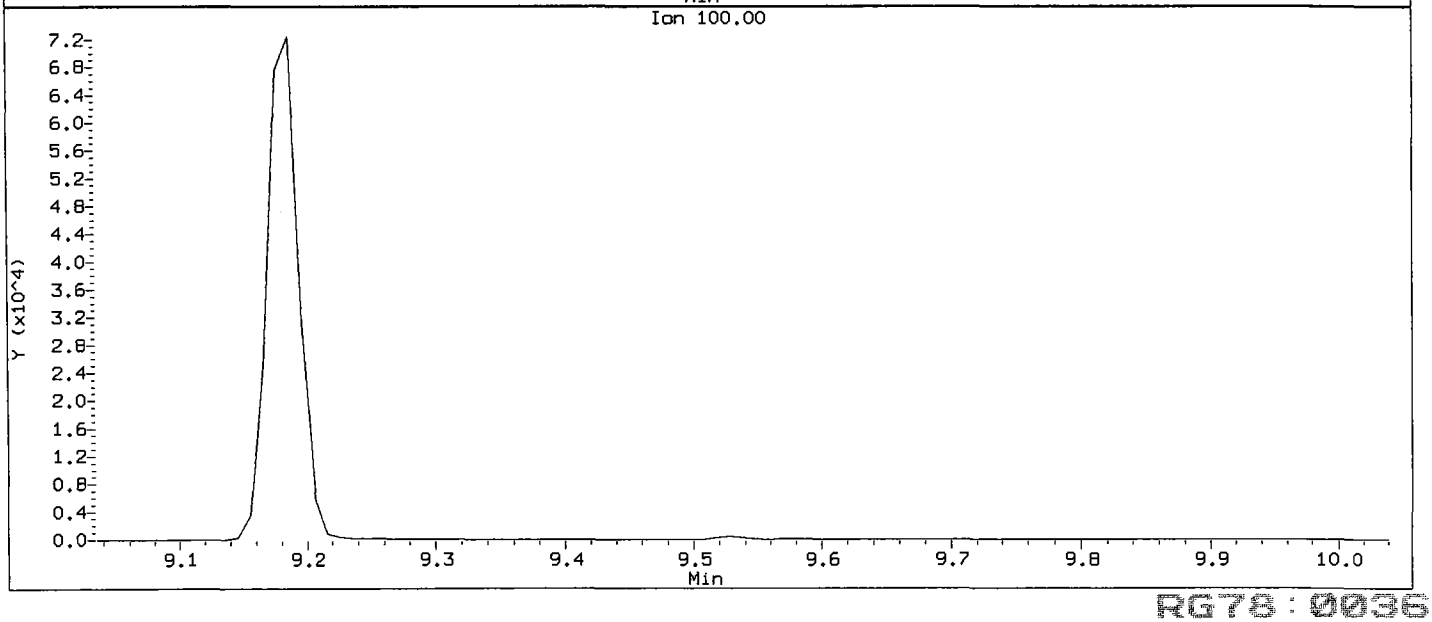
Analyst: _____ Date: 7/29/10

Data File: /chem1/finn5.i/23JUL10.b/0020723.d/0020723.LG
Injection Date: 23-JUL-2010 20:02
Instrument: finn5.i
Client Sample ID: VSTD002

Compound: 2-Hexanone
CAS Number:

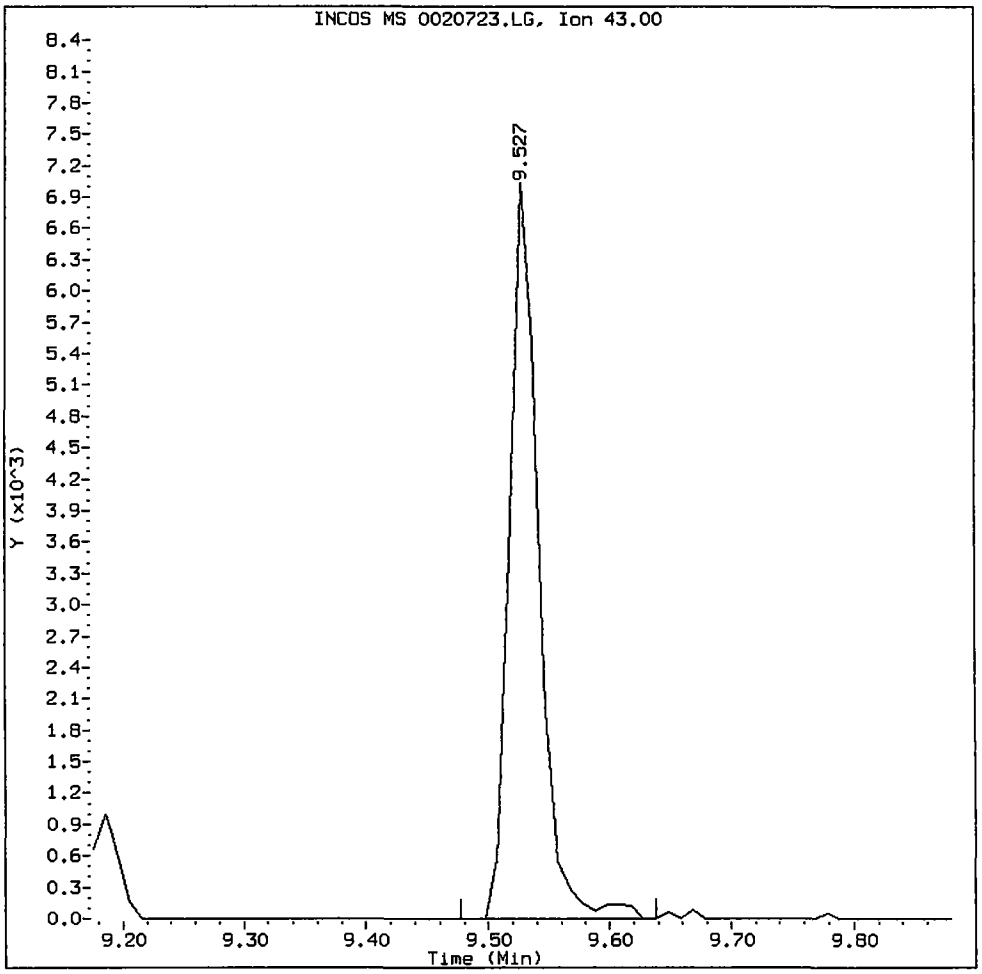






IC0723, /chem1/finn5.i/23JUL10.b/0020723.d

2-Hexanone Amount: 10.23 Area: 12031



MANUAL INTEGRATION for 2-Hexanone

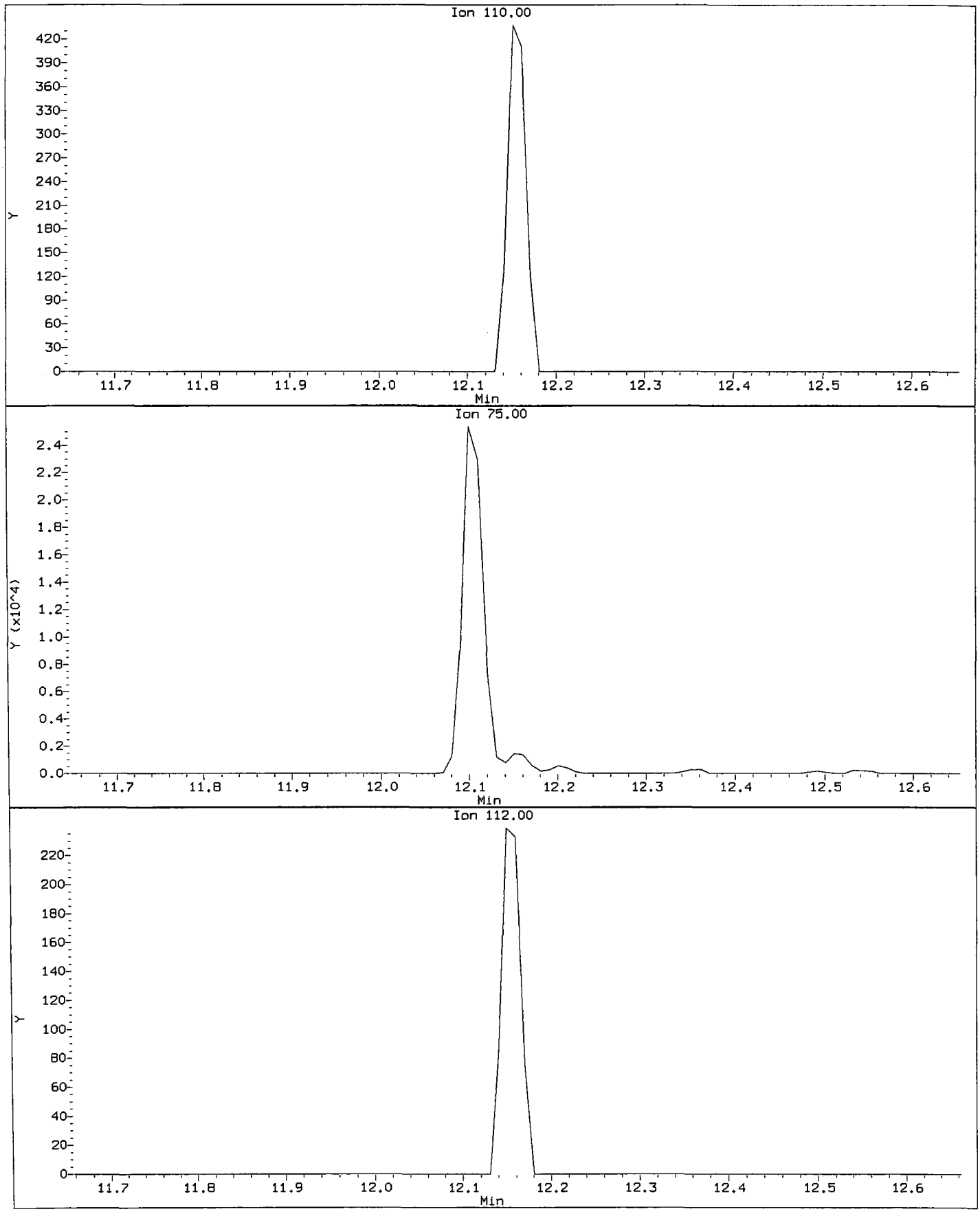
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/12/10

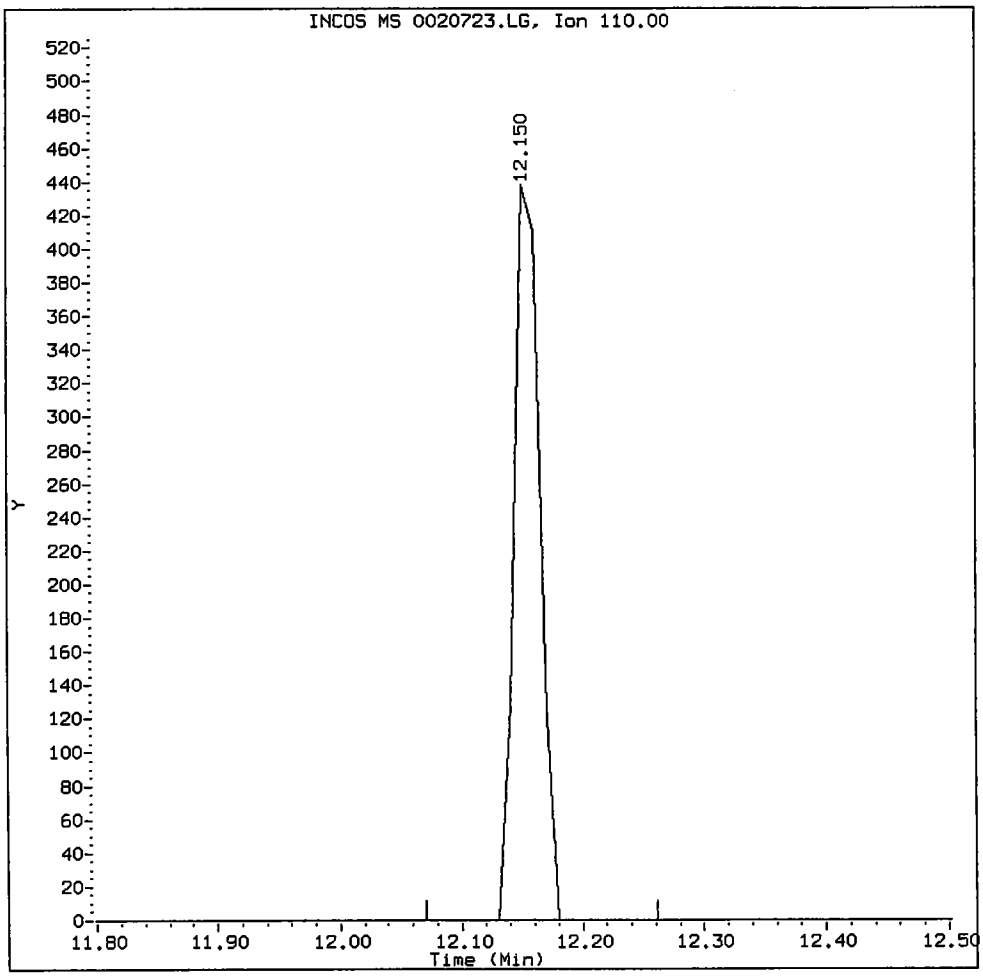
Data File: /chem1/finn5.i/23JUL10.b/0020723.d/0020723.LG
Injection Date: 23-JUL-2010 20:02
Instrument: finn5.i
Client Sample ID: VSTD002

Compound: 1.2,3-Trichloropropane
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0020723.d

1,2,3-Trichloropropane Amount: 2.35 Area: 662



MANUAL INTEGRATION for 1,2,3-Trichloropropane

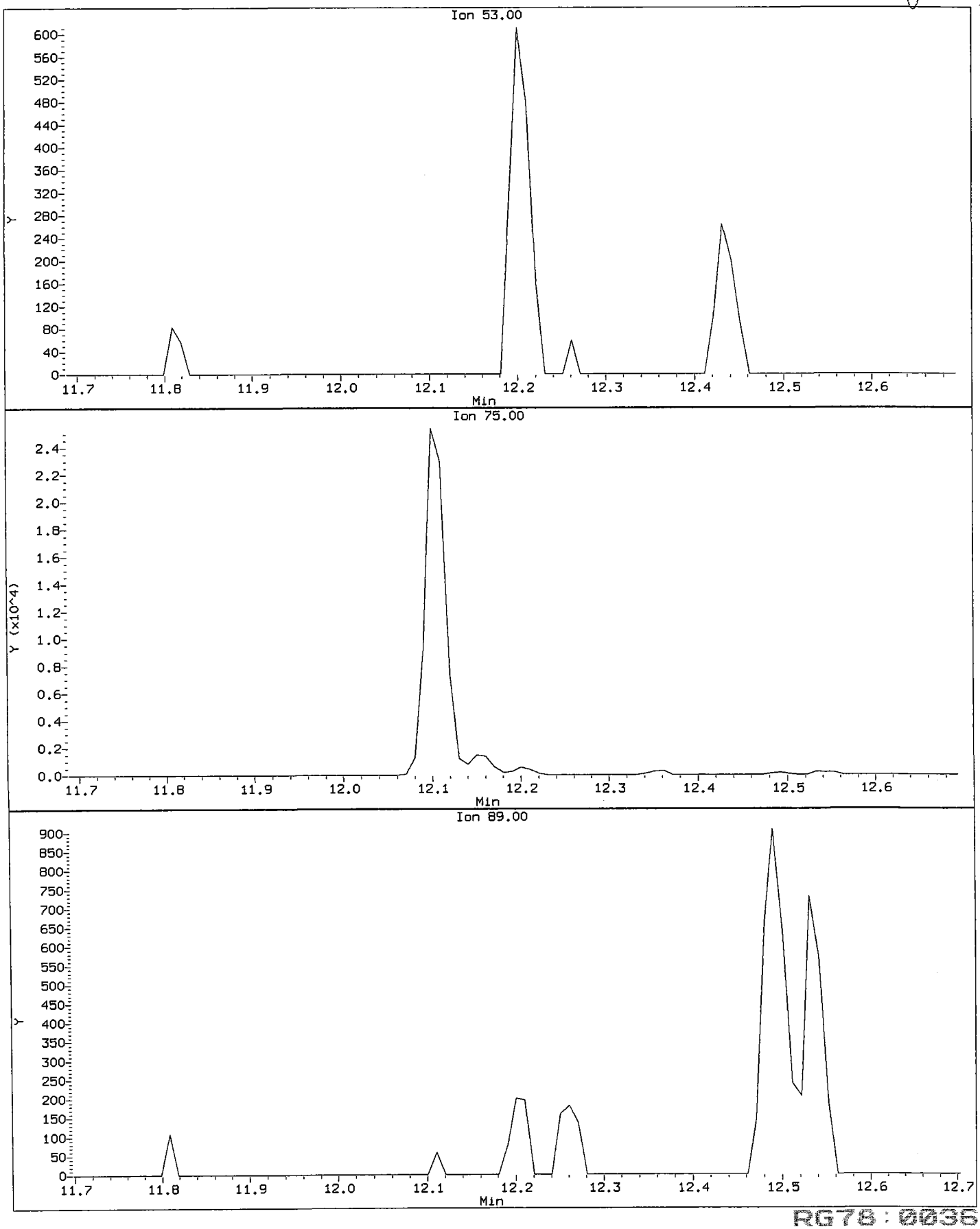
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/14/10

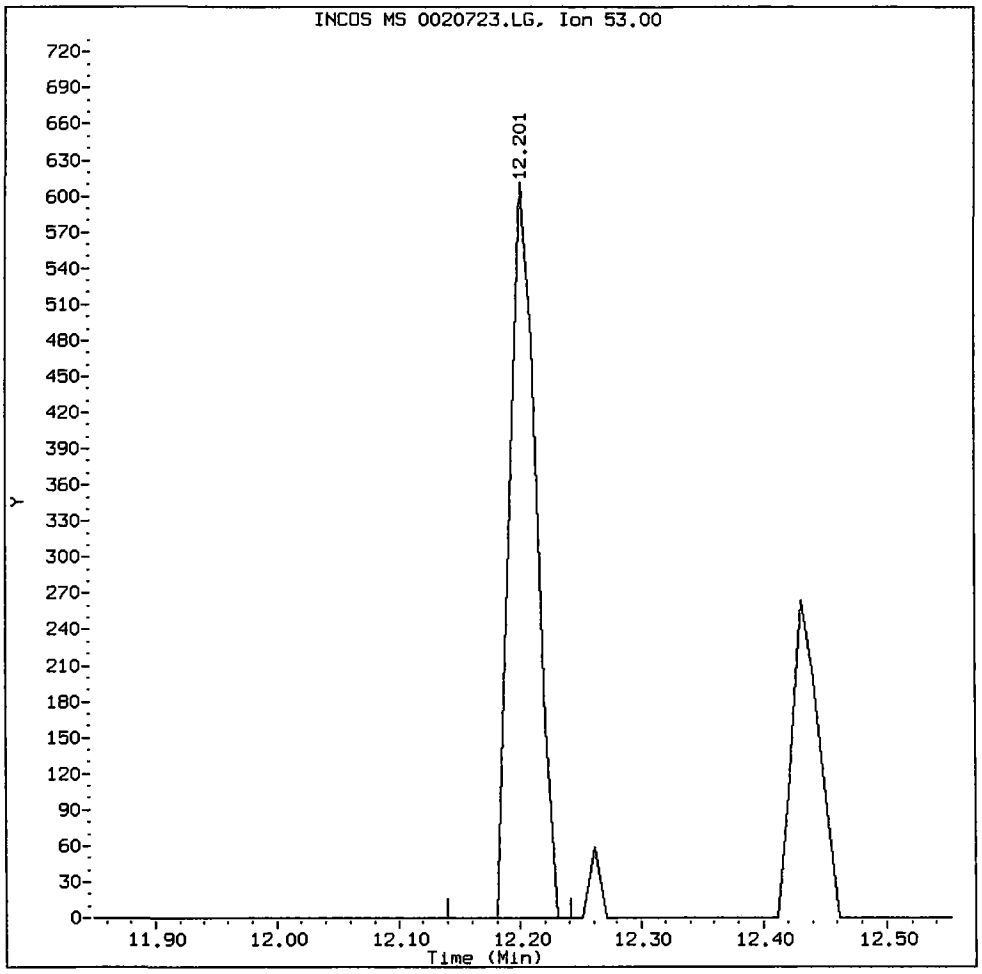
Data File: /chem1/finn5.i/23JUL10.b/0020723.d/0020723.LG
Injection Date: 23-JUL-2010 20:02
Instrument: finn5.i
Client Sample ID: VSTD002

Compound: Trans-1,4-Dichloro 2-Butene
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0020723.d

Trans-1,4-Dichloro 2-Butene Amount: 2.15 Area: 943



MANUAL INTEGRATION for Trans-1,4-Dichloro 2-Butene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/14/10

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0050723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD005
Inj Date : 23-JUL-2010 19:35
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:28 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 19:35 Cal File: 0050723.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	7723	5.00000	5.089
2 Chloromethane	50	3.296	3.296	(0.498)	22440	5.00000	5.496
3 Vinyl Chloride	62	3.417	3.417	(0.516)	17710	5.00000	5.485(Q)
4 Bromomethane	94	3.899	3.899	(0.589)	9090	5.00000	5.184
5 Chloroethane	64	3.970	3.970	(0.599)	11561	5.00000	5.482
6 Trichlorofluoromethane	101	4.231	4.231	(0.639)	17611	5.00000	5.643
7 Acrolein	56	4.623	4.623	(0.698)	10358	25.0000	26.607
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.700)	14091	5.00000	5.767
9 Acetone	43	4.673	4.673	(0.706)	18358	25.0000	28.028
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	12189	5.00000	5.498
11 Bromoethane	108	5.045	5.045	(0.762)	8530	5.00000	5.195
12 Iodomethane	142	5.146	5.146	(0.777)	13373	5.00000	5.102
13 Methylene Chloride	84	5.266	5.266	(0.795)	13925	5.00000	5.578
14 Acrylonitrile	53	5.347	5.347	(0.807)	3314	5.00000	5.730(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.387	5.387	(0.813)	18920	5.00000	5.549(Q)
	15 Carbon Disulfide	76	5.367	5.367	(0.810)	39738	5.00000	5.779
	17 Trans-1,2-Dichloroethene	96	5.548	5.548	(0.838)	9438	5.00000	4.995
	18 Vinyl Acetate	43	5.869	5.869	(0.886)	17895	5.00000	5.408
	19 1,1-Dichloroethane	63	5.929	5.929	(0.895)	18913	5.00000	5.441
	20 2-Butanone	43	6.271	6.271	(0.947)	20107	25.0000	27.282
	21 2,2-Dichloropropane	77	6.452	6.452	(0.974)	10921	5.00000	5.134
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	8398	5.00000	5.043(Q)
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	117041	50.0000	
	24 Chloroform	83	6.633	6.633	(1.002)	15400	5.00000	5.454(Q)
	26 Bromochloromethane	128	6.804	6.804	(1.027)	4294	5.00000	5.431(Q)
$	25 Dibromofluoromethane	111	6.834	6.834	(1.032)	71812	50.0000	51.480(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.061)	11387	5.00000	5.185
	29 1,1-Dichloropropene	75	7.166	7.166	(0.939)	12169	5.00000	5.243
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	10319	5.00000	5.112
$	31 d4-1,2-Dichloroethane	65	7.296	7.296	(1.102)	80444	50.0000	52.702
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	10820	5.00000	5.310
	33 Benzene	78	7.437	7.437	(0.975)	30771	5.00000	5.482
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	170929	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	8715	5.00000	5.300
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	9370	5.00000	5.296
	37 Bromodichloromethane	83	8.392	8.392	(1.100)	9943	5.00000	5.256
	39 Dibromomethane	93	8.462	8.462	(1.109)	4443	5.00000	5.059
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	2962	5.00000	4.780(Q)
	41 4-Methyl-2-Pentanone	58	8.643	8.643	(1.133)	11309	25.0000	25.028(Q)
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	10254	5.00000	4.965
$	43 d8-Toluene	98	9.176	9.176	(1.203)	191709	50.0000	51.044
	44 Toluene	92	9.256	9.256	(1.213)	17473	5.00000	5.247
	45 Trans 1,3-Dichloropropene	75	9.387	9.387	(1.231)	8395	5.00000	4.836
	46 2-Hexanone	43	9.527	9.527	(0.884)	29526	25.0000	24.696(M)
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.256)	5519	5.00000	5.323
	48 1,3-Dichloropropane	76	9.829	9.829	(0.911)	10453	5.00000	5.078
	49 Tetrachloroethene	166	9.949	9.949	(0.923)	8262	5.00000	5.084
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	6807	5.00000	4.915
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	5784	5.00000	5.208
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	146260	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	17766	5.00000	5.179
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	30541	5.00000	5.264
	55 1,1,1,2-Tetrachloroethane	131	10.844	10.844	(1.006)	6409	5.00000	4.881
	56 m,p-xylene	106	10.934	10.934	(1.014)	22123	10.0000	10.434(Q)
	57 o-Xylene	106	11.427	11.427	(1.060)	10246	5.00000	4.649
	58 Styrene	104	11.457	11.457	(1.062)	16833	5.00000	4.940
	59 Isopropyl Benzene	105	11.799	11.799	(0.877)	27803	5.00000	5.452
	60 Bromoform	173	11.859	11.859	(0.881)	4268	5.00000	5.205
	61 1,1,2,2-Tetrachloroethane	83	11.980	11.980	(0.890)	7849	5.00000	5.327
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	81582	50.0000	47.660
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.903)	1675	5.00000	5.738

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.201	12.201	(0.907)	2468	5.00000	5.450(QM)
66	N-Propyl Benzene	91	12.261	12.261	(0.911)	34800	5.00000	5.286
67	Bromobenzene	156	12.341	12.341	(0.917)	7362	5.00000	5.178
68	1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.924)	22104	5.00000	5.339
69	2-Chloro Toluene	91	12.492	12.492	(0.928)	23284	5.00000	5.382
70	4-Chloro Toluene	91	12.532	12.532	(0.931)	21819	5.00000	5.262
71	T-Butyl Benzene	119	12.844	12.844	(0.954)	19493	5.00000	5.504
72	1,2,4-Trimethylbenzene	105	12.884	12.884	(0.957)	21602	5.00000	5.301
73	S-Butyl Benzene	105	13.085	13.085	(0.972)	30183	5.00000	5.180
74	4-Isopropyl Toluene	119	13.236	13.236	(0.984)	21391	5.00000	5.350
75	1,3-Dichlorobenzene	146	13.377	13.377	(0.994)	12682	5.00000	5.221
* 76	d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	75761	50.0000	
77	1,4-Dichlorobenzene	146	13.497	13.497	(1.003)	12899	5.00000	5.307
78	N-Butyl Benzene	91	13.708	13.708	(1.019)	23070	5.00000	5.344
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.034)	69719	50.0000	50.593
80	1,2-Dichlorobenzene	146	13.939	13.939	(1.036)	12406	5.00000	5.374
81	1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.103)	1436	5.00000	5.632
82	1,2,4-Trichlorobenzene	180	15.889	15.889	(1.181)	7355	5.00000	5.236
83	Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.192)	5223	5.00000	5.520
84	Naphthalene	128	16.211	16.211	(1.205)	13199	5.00000	5.180
85	1,2,3-Trichlorobenzene	180	16.502	16.502	(1.226)	7275	5.00000	5.417

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0050723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD005
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	117041	-10.73
34 1,4-Difluorobenze	191559	95780	383118	170929	-10.77
52 d5-Chlorobenzene	161199	80600	322398	146260	-9.27
76 d4-1,4-Dichlorobe	88279	44140	176558	75761	-14.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Data File: /chem1/finn5.i/23JUL10.b/0050723.d

Date : 23-JUL-2010 19:35

Client ID: VSTD005

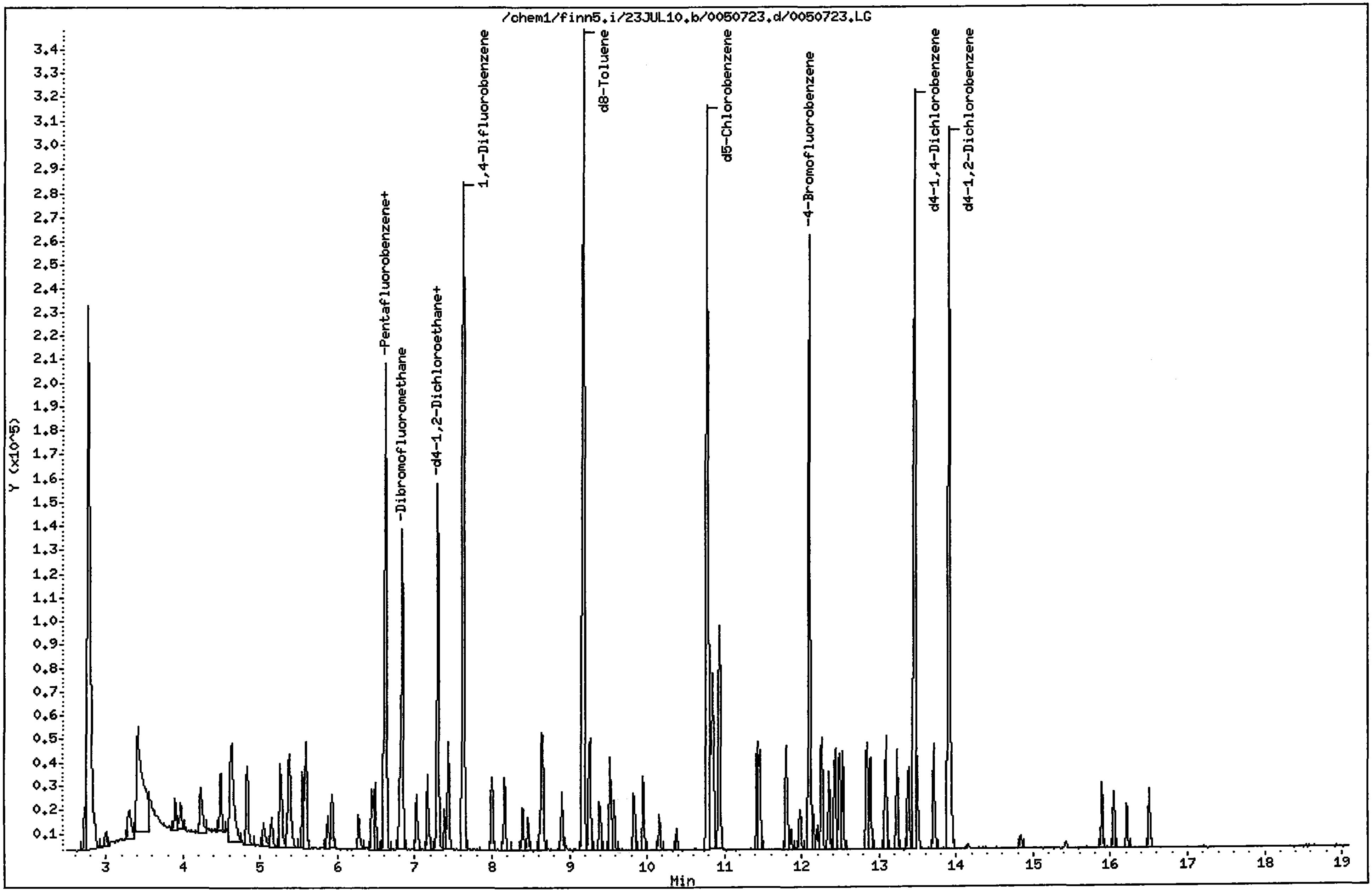
Sample Info: IC0723,5,5,0

Column phase: Rtx502.2

Instrument: finn5.i

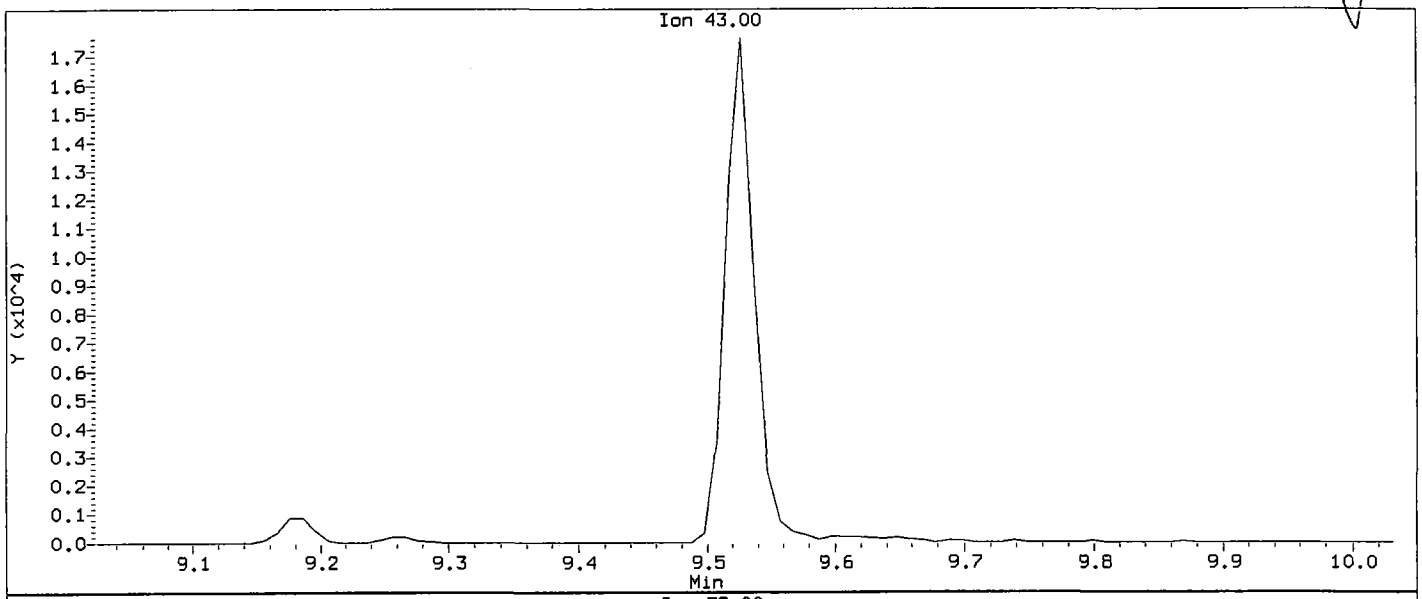
Operator: PB

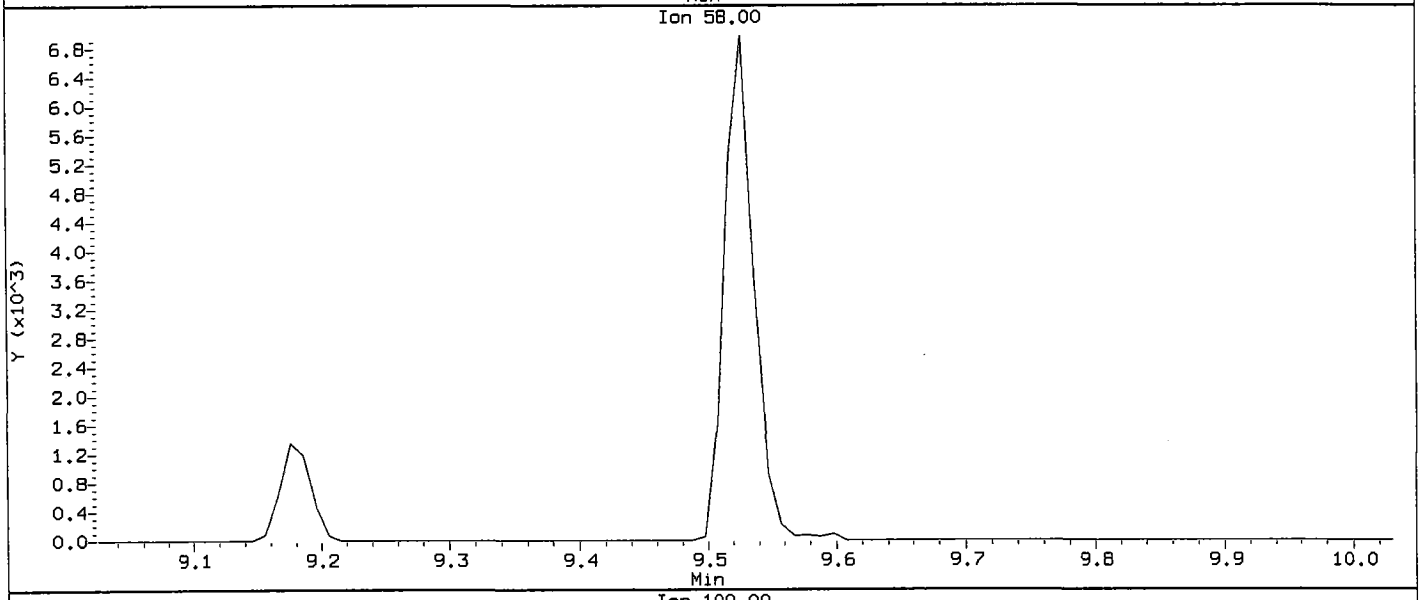
Column diameter: 0.18

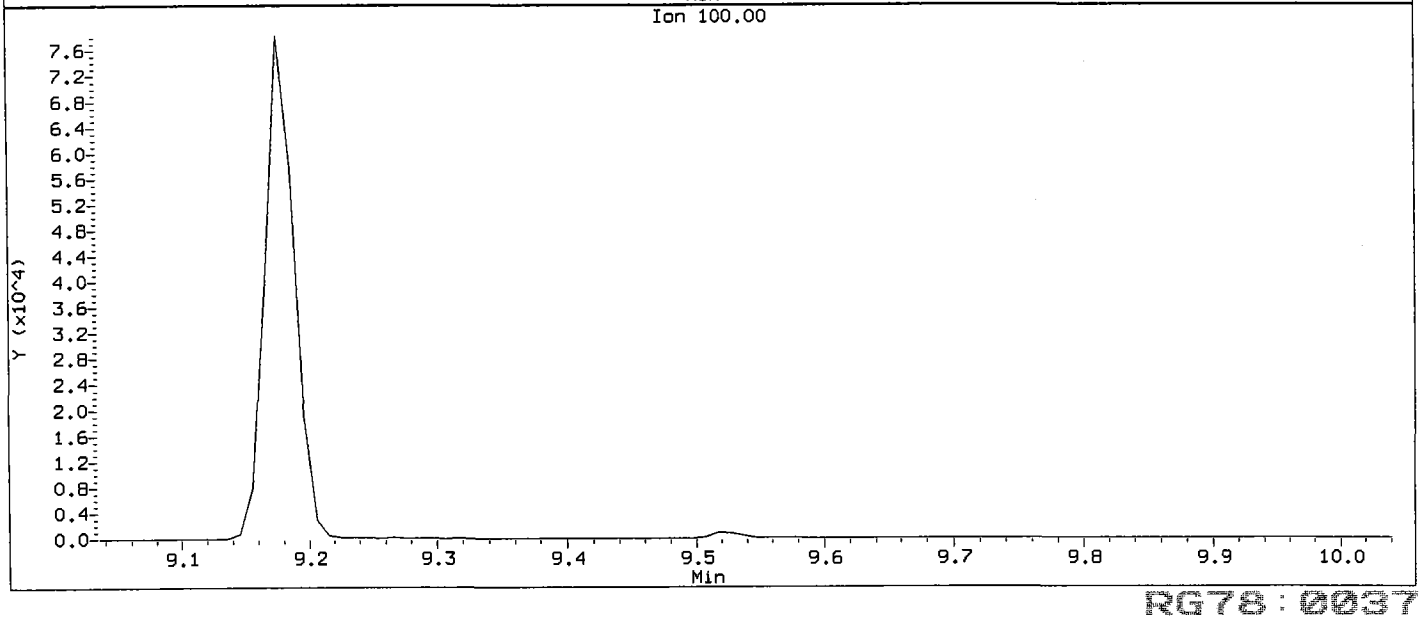


Data File: /chem1/finn5.i/23JUL10.b/0050723.d/0050723.LG
Injection Date: 23-JUL-2010 19:35
Instrument: finn5.i
Client Sample ID: VSTD005

Compound: 2-Hexanone
CAS Number:

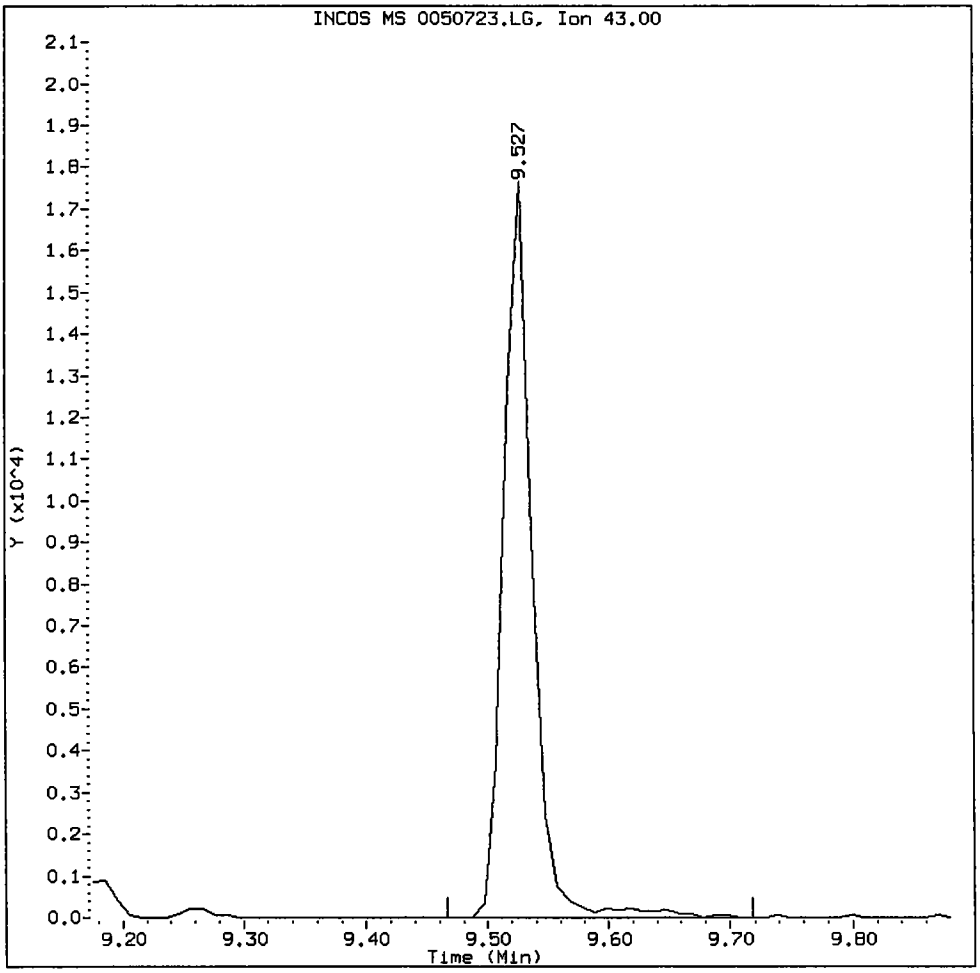






IC0723, /chem1/finn5.i/23JUL10.b/0050723.d

2-Hexanone Amount: 24.70 Area: 29526



MANUAL INTEGRATION for 2-Hexanone

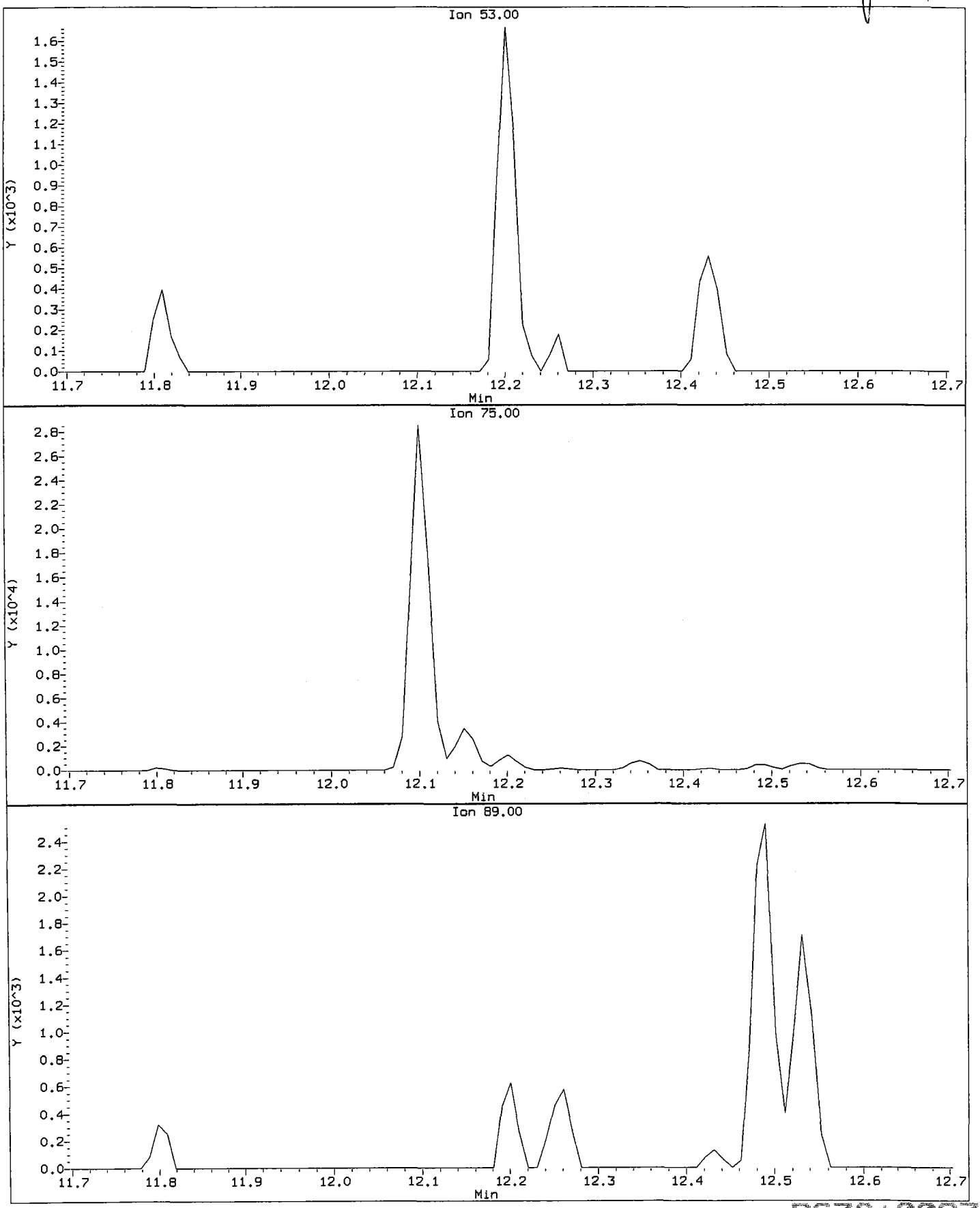
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/12/10

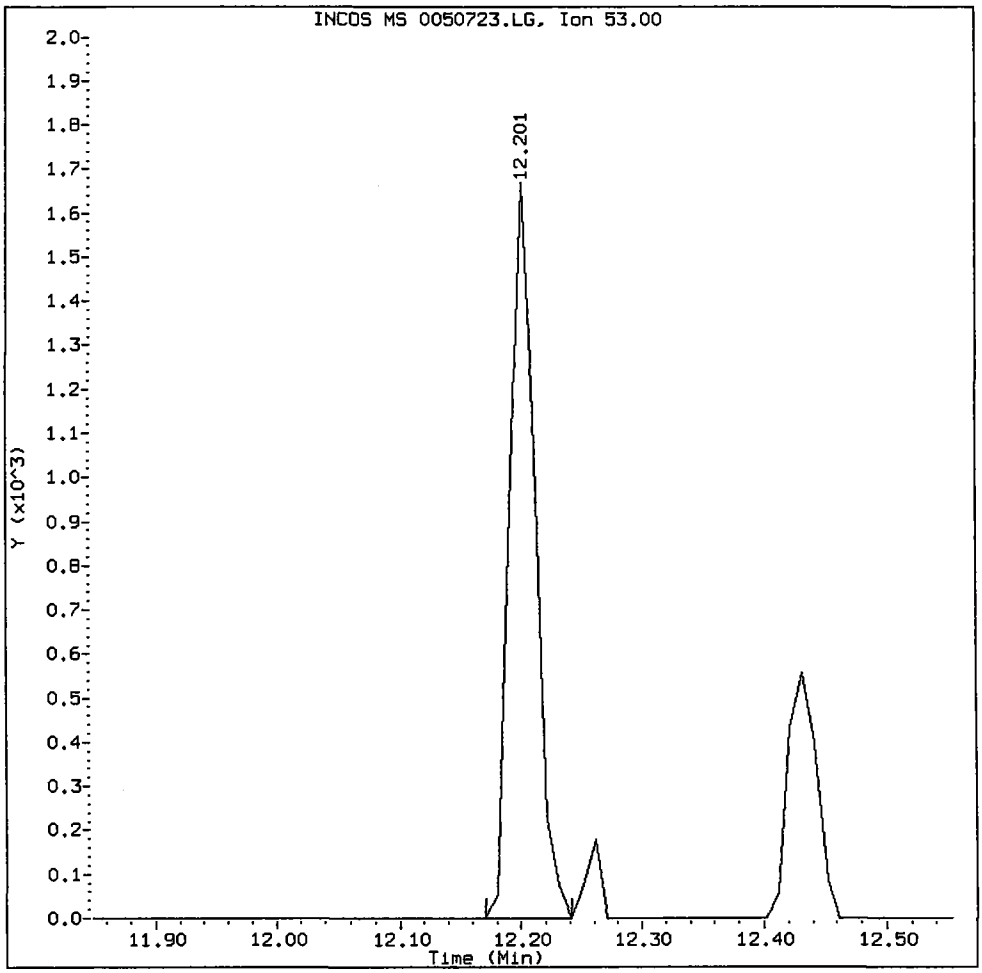
Data File: /chem1/finn5.i/23JUL10.b/0050723.d/0050723.LG
Injection Date: 23-JUL-2010 19:35
Instrument: finn5.i
Client Sample ID: VSTD005

Compound: Trans-1,4-Dichloro 2-Butene
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0050723.d

Trans-1,4-Dichloro 2-Butene Amount: 5.45 Area: 2468



MANUAL INTEGRATION for Trans-1,4-Dichloro 2-Butene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/14/10

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0100723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD010
Inj Date : 23-JUL-2010 19:09
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 19:09 Cal File: 0100723.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	15067	10.0000	9.770
2 Chloromethane	50	3.306	3.306	(0.499)	47789	10.0000	11.518
3 Vinyl Chloride	62	3.407	3.407	(0.514)	37997	10.0000	11.580(Q)
4 Bromomethane	94	3.899	3.899	(0.589)	14872	10.0000	8.346
5 Chloroethane	64	3.970	3.970	(0.599)	20719	10.0000	9.669
6 Trichlorofluoromethane	101	4.231	4.231	(0.639)	33546	10.0000	10.578
7 Acrolein	56	4.623	4.623	(0.698)	19450	50.0000	49.169
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.700)	26723	10.0000	10.764
9 Acetone	43	4.673	4.673	(0.706)	35817	50.0000	53.814
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	24541	10.0000	10.893
11 Bromoethane	108	5.055	5.055	(0.763)	17903	10.0000	10.731
12 Iodomethane	142	5.146	5.146	(0.777)	27119	10.0000	10.181
13 Methylene Chloride	84	5.266	5.266	(0.795)	26821	10.0000	10.573
14 Acrylonitrile	53	5.357	5.357	(0.809)	6777	10.0000	11.533(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	38803	10.0000	11.200(Q)
	15 Carbon Disulfide	76	5.367	5.367	(0.810)	78061	10.0000	11.172
	17 Trans-1,2-Dichloroethene	96	5.548	5.548	(0.838)	21284	10.0000	11.086
	18 Vinyl Acetate	43	5.869	5.869	(0.886)	37100	10.0000	11.033
	19 1,1-Dichloroethane	63	5.929	5.929	(0.895)	39819	10.0000	11.274
	20 2-Butanone	43	6.281	6.281	(0.948)	42020	50.0000	56.109
	21 2,2-Dichloropropane	77	6.452	6.452	(0.974)	22630	10.0000	10.471
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	18047	10.0000	10.665
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	118930	50.0000	
	24 Chloroform	83	6.633	6.633	(1.002)	31386	10.0000	10.940
	26 Bromochloromethane	128	6.804	6.804	(1.027)	8495	10.0000	10.574
$	25 Dibromofluoromethane	111	6.834	6.834	(1.032)	69715	50.0000	49.182(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.061)	23434	10.0000	10.502
	29 1,1-Dichloropropene	75	7.166	7.166	(0.939)	25745	10.0000	11.267
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	21209	10.0000	10.673
$	31 d4-1,2-Dichloroethane	65	7.296	7.296	(1.102)	76858	50.0000	49.553
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	22825	10.0000	11.378
	33 Benzene	78	7.437	7.437	(0.975)	66143	10.0000	11.970
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	168271	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	18174	10.0000	11.226
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	19596	10.0000	11.250
	37 Bromodichloromethane	83	8.402	8.402	(1.101)	20319	10.0000	10.911
	39 Dibromomethane	93	8.472	8.472	(1.111)	9683	10.0000	11.199
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	6388	10.0000	10.472(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.134)	24009	50.0000	53.974
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	22221	10.0000	10.929
$	43 d8-Toluene	98	9.176	9.176	(1.203)	186138	50.0000	50.343
	44 Toluene	92	9.266	9.266	(1.215)	35399	10.0000	10.798
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.232)	18193	10.0000	10.645
	46 2-Hexanone	43	9.527	9.527	(0.884)	61774	50.0000	53.599
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.256)	11407	10.0000	11.176
	48 1,3-Dichloropropane	76	9.829	9.829	(0.911)	21313	10.0000	10.740
	49 Tetrachloroethene	166	9.949	9.949	(0.923)	15981	10.0000	10.202
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	14166	10.0000	10.612
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	11754	10.0000	10.752
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	140990	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	36224	10.0000	10.954
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	63957	10.0000	11.437
	55 1,1,1,2-Tetrachloroethane	131	10.844	10.844	(1.006)	12790	10.0000	10.106
	56 m,p-xylene	106	10.934	10.934	(1.014)	46275	20.0000	22.640(Q)
	57 o-Xylene	106	11.427	11.427	(1.060)	21803	10.0000	10.264
	58 Styrene	104	11.457	11.457	(1.062)	37240	10.0000	11.338
	59 Isopropyl Benzene	105	11.809	11.809	(0.878)	58882	10.0000	12.124
	60 Bromoform	173	11.869	11.869	(0.882)	8420	10.0000	10.783
	61 1,1,2,2-Tetrachloroethane	83	11.980	11.980	(0.890)	16250	10.0000	11.581
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	77668	50.0000	47.070
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.903)	3269	10.0000	11.760

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.201	12.201	(0.907)	5035	10.0000	11.675
66	N-Propyl Benzene	91	12.261	12.261	(0.911)	74061	10.0000	11.812
67	Bromobenzene	156	12.351	12.351	(0.918)	15265	10.0000	11.274
68	1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.924)	46547	10.0000	11.806
69	2-Chloro Toluene	91	12.492	12.492	(0.928)	48661	10.0000	11.812
70	4-Chloro Toluene	91	12.532	12.532	(0.931)	47584	10.0000	12.050
71	T-Butyl Benzene	119	12.844	12.844	(0.954)	41330	10.0000	12.254
72	1,2,4-Trimethylbenzene	105	12.894	12.894	(0.958)	47036	10.0000	12.119
73	S-Butyl Benzene	105	13.085	13.085	(0.972)	64271	10.0000	11.583
74	4-Isopropyl Toluene	119	13.236	13.236	(0.984)	45887	10.0000	12.052
75	1,3-Dichlorobenzene	146	13.387	13.387	(0.995)	27596	10.0000	11.930
* 76	d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	72150	50.0000	
77	1,4-Dichlorobenzene	146	13.497	13.497	(1.003)	26532	10.0000	11.462
78	N-Butyl Benzene	91	13.708	13.708	(1.019)	49500	10.0000	12.040
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.034)	66793	50.0000	50.895
80	1,2-Dichlorobenzene	146	13.939	13.939	(1.036)	25247	10.0000	11.484
81	1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.103)	2894	10.0000	11.920
82	1,2,4-Trichlorobenzene	180	15.889	15.889	(1.181)	16254	10.0000	12.150
83	Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.192)	10838	10.0000	12.028
84	Naphthalene	128	16.221	16.221	(1.205)	30211	10.0000	12.450
85	1,2,3-Trichlorobenzene	180	16.502	16.502	(1.226)	16393	10.0000	12.817

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0100723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD010
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	118930	-9.29
34 1,4-Difluorobenze	191559	95780	383118	168271	-12.16
52 d5-Chlorobenzene	161199	80600	322398	140990	-12.54
76 d4-1,4-Dichlorobe	88279	44140	176558	72150	-18.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

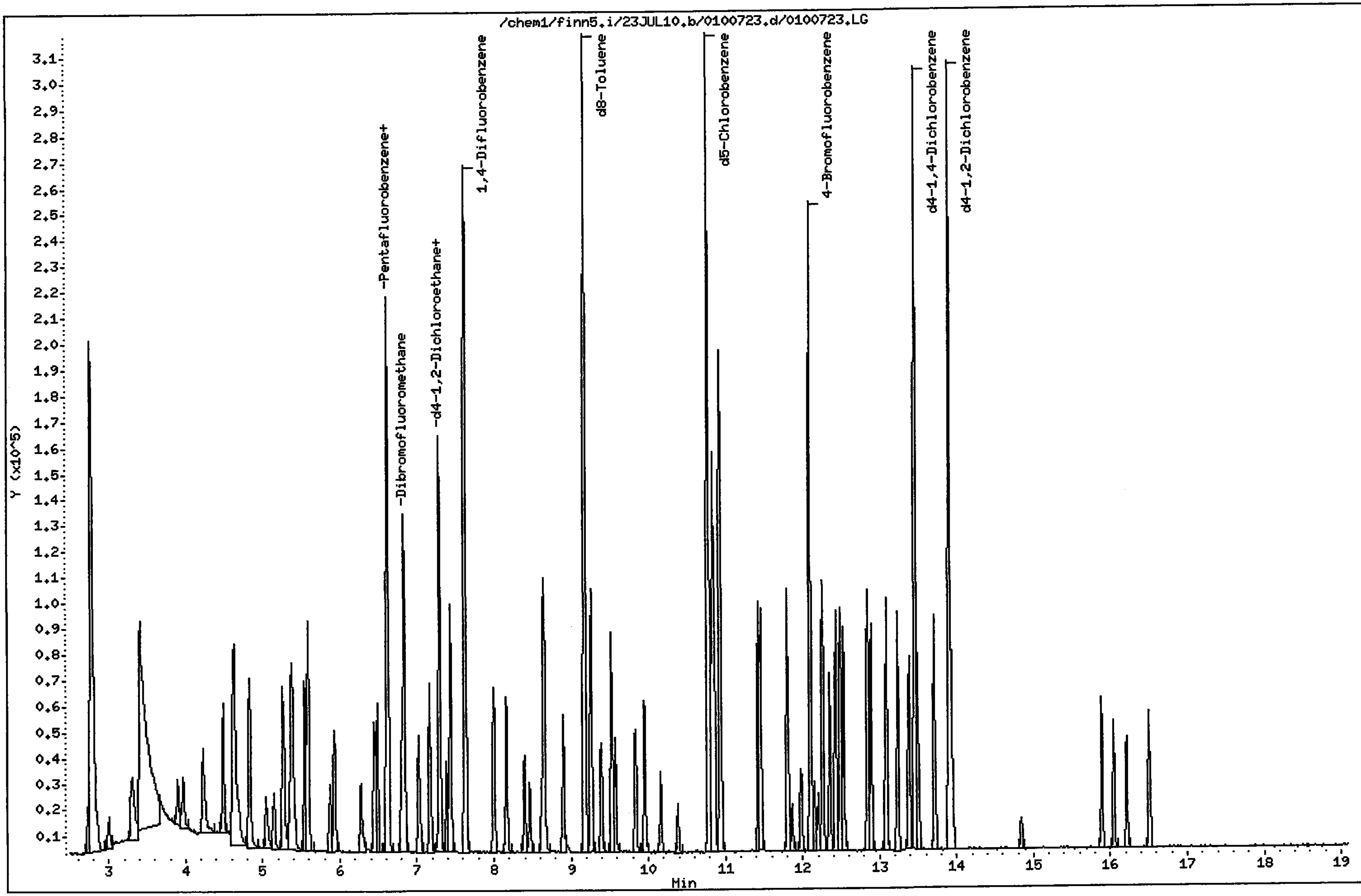
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/23JUL10.b/0100723.d
Date : 23-JUL-2010 19:09
Client ID: VSTD010
Sample Info: IC0723,5,5,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0500723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD050
Inj Date : 23-JUL-2010 18:42
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 18:42 Cal File: 0500723.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	88494	50.0000	52.050
2 Chloromethane	50	3.306	3.306	(0.499)	216660	50.0000	47.364
3 Vinyl Chloride	62	3.417	3.417	(0.516)	178705	50.0000	49.403
4 Bromomethane	94	3.909	3.909	(0.590)	106254	50.0000	54.088
5 Chloroethane	64	3.980	3.980	(0.601)	114914	50.0000	48.645
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	187024	50.0000	53.495
7 Acrolein	56	4.623	4.623	(0.698)	103002	250.000	236.19
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.700)	132979	50.0000	48.585
9 Acetone	43	4.673	4.673	(0.706)	175977	250.000	239.83
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	128370	50.0000	51.685
11 Bromoethane	108	5.055	5.055	(0.763)	95360	50.0000	51.846
12 Iodomethane	142	5.156	5.156	(0.778)	164295	50.0000	55.947
13 Methylene Chloride	84	5.266	5.266	(0.795)	122611	50.0000	43.842
14 Acrylonitrile	53	5.357	5.357	(0.809)	34222	50.0000	52.824

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	199902	50.0000	52.338
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	416399	50.0000	54.056
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	104060	50.0000	49.162
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	204622	50.0000	55.196
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	201091	50.0000	51.642
	20 2-Butanone	43	6.281	6.281	(0.948)	214832	250.000	260.20
	21 2,2-Dichloropropane	77	6.452	6.452	(0.974)	119721	50.0000	50.246
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	90699	50.0000	48.618
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	131115	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	157700	50.0000	49.859
	26 Bromochloromethane	128	6.804	6.804	(1.027)	43978	50.0000	49.652
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	78499	50.0000	50.233
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.061)	122308	50.0000	49.717
	29 1,1-Dichloropropene	75	7.176	7.176	(0.941)	128968	50.0000	49.578
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	109284	50.0000	48.311
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	84334	50.0000	49.320
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	112274	50.0000	49.165
	33 Benzene	78	7.437	7.437	(0.975)	317315	50.0000	50.445
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	191559	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	89737	50.0000	48.692
	36 1,2-Dichloropropane	63	8.171	8.171	(1.071)	96034	50.0000	48.432
	37 Bromodichloromethane	83	8.402	8.402	(1.101)	103931	50.0000	49.024
	39 Dibromomethane	93	8.472	8.472	(1.111)	47687	50.0000	48.448
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	35475	50.0000	51.086
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.134)	127285	250.000	251.36
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	122153	50.0000	52.775
$	43 d8-Toluene	98	9.186	9.186	(1.204)	213313	50.0000	50.679
	44 Toluene	92	9.266	9.266	(1.215)	176514	50.0000	47.296
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.232)	99882	50.0000	51.339
	46 2-Hexanone	43	9.527	9.527	(0.884)	307458	250.000	233.33
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.256)	56632	50.0000	48.742
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	109236	50.0000	48.147
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	78929	50.0000	44.072
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	72980	50.0000	47.816
	51 1,2-Dibromoethane	107	10.392	10.392	(1.362)	61687	50.0000	49.567
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	161199	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	176231	50.0000	46.611
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	325754	50.0000	50.948
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.854	(1.007)	62748	50.0000	43.363
	56 m,p-xylene	106	10.934	10.934	(1.014)	247468	100.000	105.89
	57 o-Xylene	106	11.427	11.427	(1.060)	120870	50.0000	49.766
	58 Styrene	104	11.457	11.457	(1.062)	197957	50.0000	52.713
	59 Isopropyl Benzene	105	11.809	11.809	(0.877)	321007	50.0000	54.019
	60 Bromoform	173	11.869	11.869	(0.881)	45981	50.0000	48.125
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	80952	50.0000	47.153
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	91332	50.0000	48.412
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.902)	16376	50.0000	48.148

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	26610	50.0000	50.430
	66 N-Propyl Benzene	91	12.261	12.261	(0.910)	378862	50.0000	49.387
	67 Bromobenzene	156	12.351	12.351	(0.917)	80968	50.0000	48.876
	68 1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.923)	264645	50.0000	54.862
	69 2-Chloro Toluene	91	12.492	12.492	(0.928)	248038	50.0000	49.208
	70 4-Chloro Toluene	91	12.532	12.532	(0.931)	261192	50.0000	54.058
	71 T-Butyl Benzene	119	12.844	12.844	(0.954)	232931	50.0000	56.443
	72 1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	260230	50.0000	54.800
	73 S-Butyl Benzene	105	13.095	13.095	(0.972)	355887	50.0000	52.419
	74 4-Isopropyl Toluene	119	13.236	13.236	(0.983)	260120	50.0000	55.837
	75 1,3-Dichlorobenzene	146	13.387	13.387	(0.994)	145285	50.0000	51.333
*	76 d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	88279	50.0000	
	77 1,4-Dichlorobenzene	146	13.497	13.497	(1.002)	140968	50.0000	49.774
	78 N-Butyl Benzene	91	13.718	13.718	(1.019)	273888	50.0000	54.445
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	81684	50.0000	50.870
	80 1,2-Dichlorobenzene	146	13.939	13.939	(1.035)	133963	50.0000	49.803
	81 1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.102)	15128	50.0000	50.924
	82 1,2,4-Trichlorobenzene	180	15.889	15.889	(1.180)	75938	50.0000	46.392
	83 Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	52008	50.0000	47.175
	84 Naphthalene	128	16.221	16.221	(1.204)	142809	50.0000	48.101
	85 1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	71413	50.0000	45.633

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0500723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD050
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

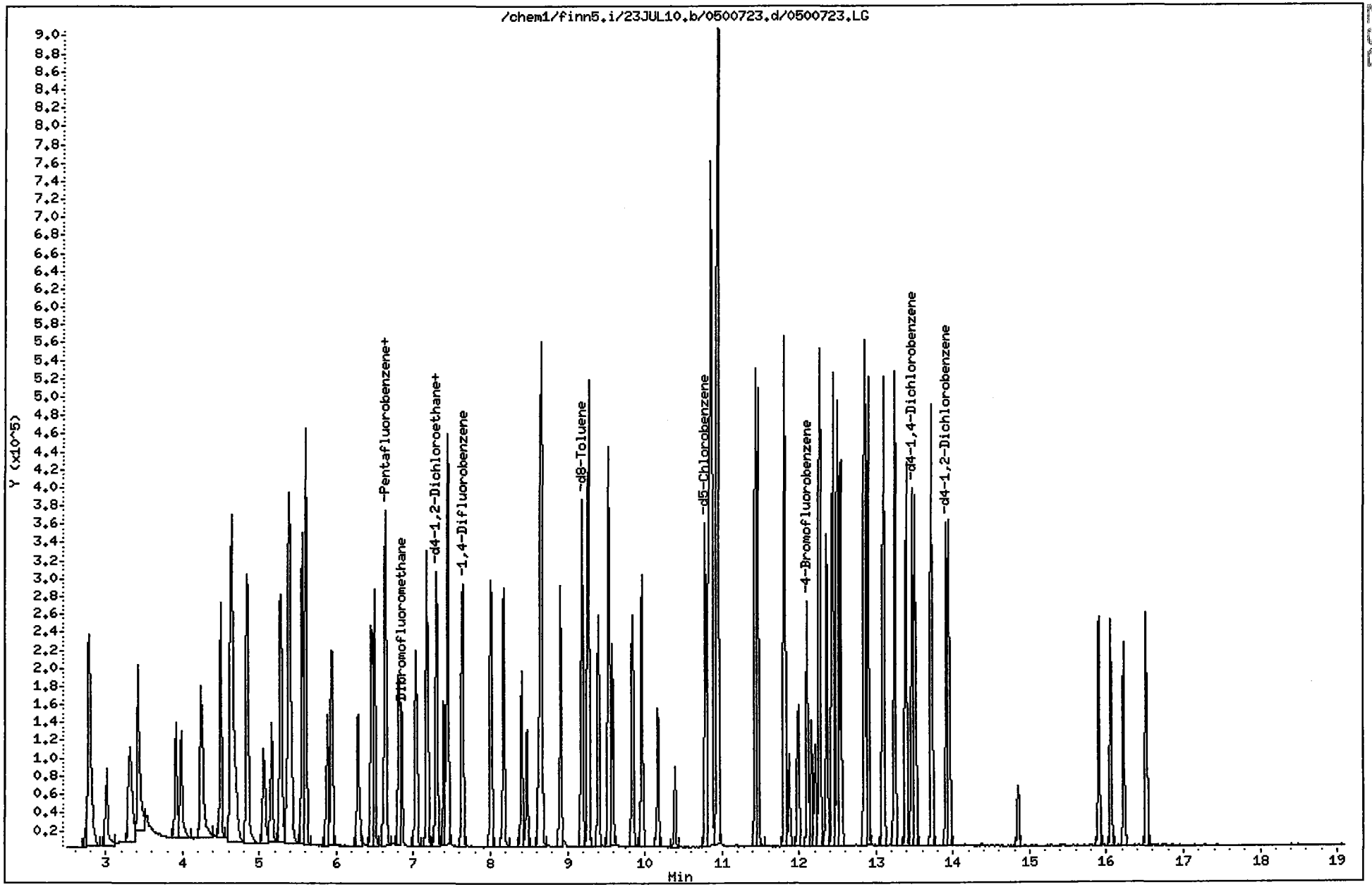
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	131115	0.00
34 1,4-Difluorobenze	191559	95780	383118	191559	0.00
52 d5-Chlorobenzene	161199	80600	322398	161199	0.00
76 d4-1,4-Dichlorobe	88279	44140	176558	88279	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Data File: /chem1/finn5.i/23JUL10.b/0500723.d
Date : 23-JUL-2010 18:42
Client ID: VSTD050
Sample Info: IC0723,5,5,0

Instrument: finn5.i
Operator: PB
Column phase: Rtx502.2
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/1000723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD100
Inj Date : 23-JUL-2010 18:16
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 18:16 Cal File: 1000723.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	182544	100.000	104.02
2 Chloromethane	50	3.306	3.306	(0.499)	423802	100.000	89.759
3 Vinyl Chloride	62	3.417	3.417	(0.516)	367442	100.000	98.412
4 Bromomethane	94	3.909	3.909	(0.590)	208154	100.000	102.66
5 Chloroethane	64	3.980	3.980	(0.601)	210640	100.000	86.388
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	346453	100.000	96.008
7 Acrolein	56	4.633	4.633	(0.700)	197468	500.000	438.68
8 112Trichlorol22Trifluoroethane	101	4.643	4.643	(0.701)	264194	100.000	93.516
9 Acetone	43	4.683	4.683	(0.707)	329833	500.000	435.50
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	252737	100.000	98.586
11 Bromoethane	108	5.055	5.055	(0.763)	196835	100.000	103.68
12 Iodomethane	142	5.156	5.156	(0.778)	339831	100.000	112.12
13 Methylene Chloride	84	5.276	5.276	(0.797)	251445	100.000	87.107
14 Acrylonitrile	53	5.357	5.357	(0.809)	69928	100.000	104.57(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	417323	100.000	105.86(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	775986	100.000	97.596
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	225901	100.000	103.40
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	420486	100.000	109.89
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	422564	100.000	105.14
	20 2-Butanone	43	6.281	6.281	(0.948)	437209	500.000	513.04
	21 2,2-Dichloropropane	77	6.462	6.462	(0.976)	258768	100.000	105.22
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	200756	100.000	104.26
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	135334	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	333986	100.000	102.30
	26 Bromochloromethane	128	6.804	6.804	(1.027)	95093	100.000	104.01
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	79364	50.0000	49.203(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.062)	260275	100.000	102.50
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	277625	100.000	102.36
	30 Carbon Tetrachloride	117	7.286	7.286	(0.954)	236579	100.000	100.30
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	86752	50.0000	49.152
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	238783	100.000	100.28
	33 Benzene	78	7.447	7.447	(0.975)	581109	100.000	88.602
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	199732	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	193783	100.000	100.84
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	206742	100.000	99.998
	37 Bromodichloromethane	83	8.402	8.402	(1.100)	221686	100.000	100.29
	39 Dibromomethane	93	8.472	8.472	(1.109)	104013	100.000	101.35
	40 2-Chloroethyl Vinyl Ether	63	8.623	8.623	(1.129)	77415	100.000	106.92(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.133)	263763	500.000	499.56(Q)
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.166)	270130	100.000	111.93
$	43 d8-Toluene	98	9.186	9.186	(1.203)	215653	50.0000	49.139
	44 Toluene	92	9.266	9.266	(1.213)	377962	100.000	97.129(Q)
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.230)	223383	100.000	110.12
	46 2-Hexanone	43	9.527	9.527	(0.884)	517771	500.000	394.32
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.254)	123034	100.000	101.56
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	232506	100.000	102.84
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	175269	100.000	98.211
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	158474	100.000	104.20
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	131007	100.000	100.96
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	160631	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	376912	100.000	100.04
	54 Ethyl Benzene	91	10.864	10.864	(1.007)	573170	100.000	89.962
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.854	(1.007)	137418	100.000	95.300
	56 m,p-xylene	106	10.944	10.944	(1.015)	516678	200.000	221.87(Q)
	57 o-Xylene	106	11.427	11.427	(1.060)	269989	100.000	111.56(Q)
	58 Styrene	104	11.457	11.457	(1.062)	431090	100.000	115.20
	59 Isopropyl Benzene	105	11.809	11.809	(0.877)	588226	100.000	90.704
	60 Bromoform	173	11.869	11.869	(0.881)	103792	100.000	99.542
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	171593	100.000	91.586
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.123)	95036	50.0000	50.553
	63 1,2,3-Trichloropropane	110	12.160	12.160	(0.903)	35211	100.000	94.864

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	57625	100.000	100.07
66	N-Propyl Benzene	91	12.261	12.261	(0.910)	642345	100.000	76.727
67	Bromobenzene	156	12.351	12.351	(0.917)	184300	100.000	101.94
68	1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.923)	526617	100.000	100.04
69	2-Chloro Toluene	91	12.492	12.492	(0.928)	543512	100.000	98.805
70	4-Chloro Toluene	91	12.542	12.542	(0.931)	505915	100.000	95.947
71	T-Butyl Benzene	119	12.844	12.844	(0.954)	493329	100.000	109.54
72	1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	539580	100.000	104.12
73	S-Butyl Benzene	105	13.095	13.095	(0.972)	628727	100.000	84.857
74	4-Isopropyl Toluene	119	13.236	13.236	(0.983)	529249	100.000	104.10
75	1,3-Dichlorobenzene	146	13.387	13.387	(0.994)	347593	100.000	112.54
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	96340	50.0000	
77	1,4-Dichlorobenzene	146	13.507	13.507	(1.003)	341992	100.000	110.65
78	N-Butyl Benzene	91	13.718	13.718	(1.019)	548418	100.000	99.896
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	86952	50.0000	49.620
80	1,2-Dichlorobenzene	146	13.949	13.949	(1.036)	305695	100.000	104.14
81	1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.102)	30455	100.000	93.940
82	1,2,4-Trichlorobenzene	180	15.899	15.899	(1.181)	175953	100.000	98.499
83	Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	115056	100.000	95.632
84	Naphthalene	128	16.221	16.221	(1.204)	300283	100.000	92.679
85	1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	158431	100.000	92.767

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 1000723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD100
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	135334	3.22
34 1,4-Difluorobenze	191559	95780	383118	199732	4.27
52 d5-Chlorobenzene	161199	80600	322398	160631	-0.35
76 d4-1,4-Dichlorobe	88279	44140	176558	96340	9.13

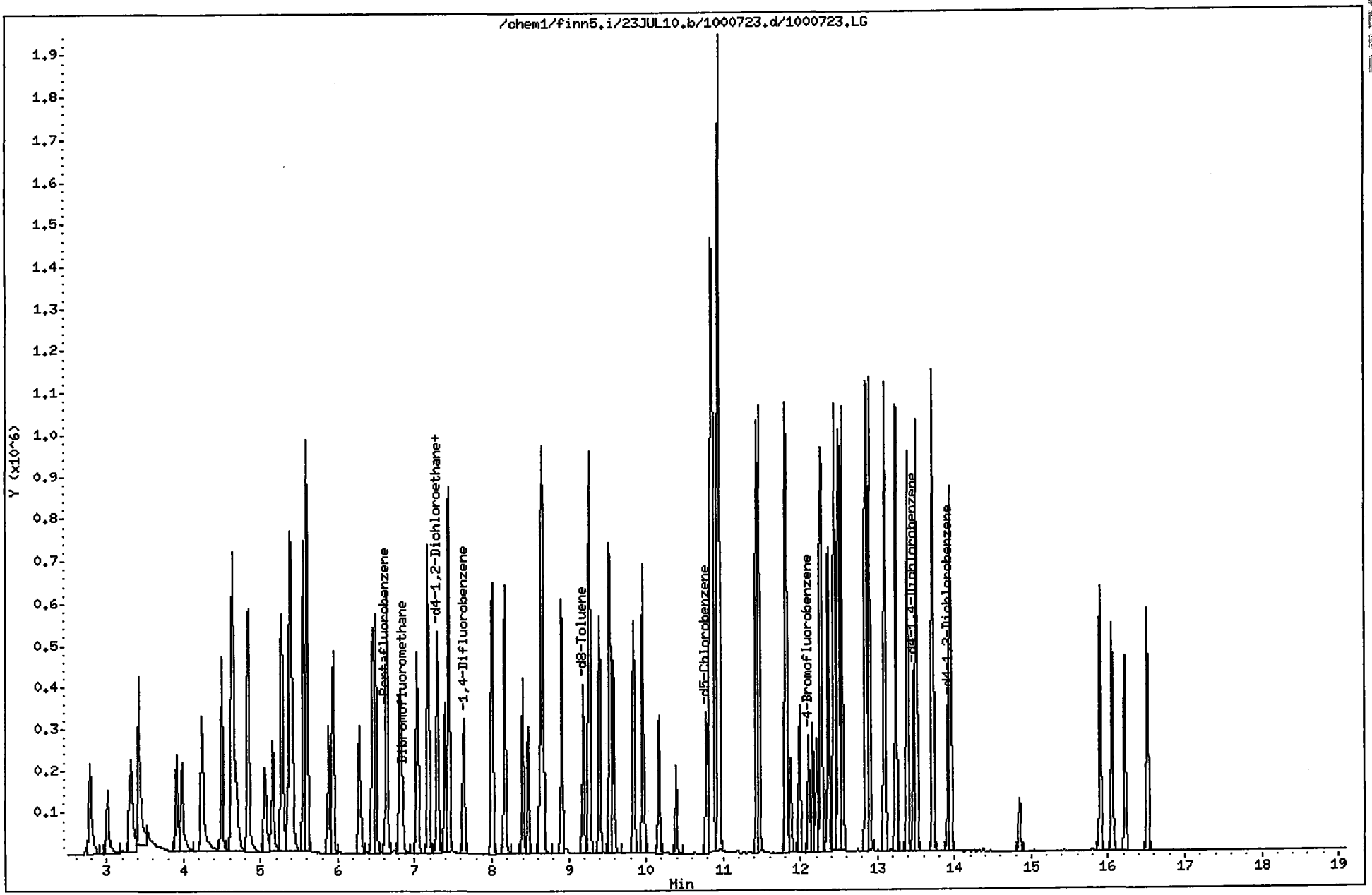
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Data File: /chem1/finn5.i/23JUL10.b/1000723.d
Date : 23-JUL-2010 18:16
Client ID: VSTD100
Sample Info: IC0723,5,5,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/1500723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD150
Inj Date : 23-JUL-2010 17:49
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:49 Cal File: 1500723.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.015	3.015	(0.455)	295620	150.000	146.34
2 Chloromethane	50	3.316	3.316	(0.501)	648632	150.000	119.34
3 Vinyl Chloride	62	3.417	3.417	(0.516)	547438	150.000	127.37
4 Bromomethane	94	3.909	3.909	(0.590)	302383	150.000	129.55
5 Chloroethane	64	3.980	3.980	(0.601)	293885	150.000	104.71
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	487082	150.000	117.26
7 Acrolein	56	4.633	4.633	(0.700)	278099	750.000	536.71
8 112Trichloro122Trifluoroethane	101	4.643	4.643	(0.701)	382218	150.000	117.53
9 Acetone	43	4.683	4.683	(0.707)	476748	750.000	546.84
10 1,1-Dichloroethene	96	4.844	4.844	(0.731)	372564	150.000	126.25
11 Bromoethane	108	5.055	5.055	(0.763)	295924	150.000	135.41
12 Iodomethane	142	5.156	5.156	(0.778)	498041	150.000	142.74
13 Methylene Chloride	84	5.276	5.276	(0.797)	383620	150.000	115.45
14 Acrylonitrile	53	5.357	5.357	(0.809)	107704	150.000	139.92(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	613756	150.000	135.24(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	1021453	150.000	111.60(Q)
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	357903	150.000	142.31(Q)
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	559418	150.000	127.00
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	586536	150.000	126.78
	20 2-Butanone	43	6.281	6.281	(0.948)	627000	750.000	639.16
	21 2,2-Dichloropropane	77	6.462	6.462	(0.976)	409501	150.000	144.65
	22 Cis-1,2-Dichloroethene	96	6.502	6.502	(0.982)	321064	150.000	144.85(Q)
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	155784	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	501605	150.000	133.48
	26 Bromochloromethane	128	6.814	6.814	(1.029)	155161	150.000	147.44
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	89065	50.0000	47.969(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.062)	410583	150.000	140.47
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	432896	150.000	139.46
	30 Carbon Tetrachloride	117	7.296	7.296	(0.955)	377891	150.000	140.00
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	96098	50.0000	47.300
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	373218	150.000	136.97
	33 Benzene	78	7.447	7.447	(0.975)	746304	150.000	99.432
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	228573	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	307337	150.000	139.76
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	322596	150.000	136.35
	37 Bromodichloromethane	83	8.402	8.402	(1.100)	353775	150.000	139.85
	39 Dibromomethane	93	8.472	8.472	(1.109)	162509	150.000	138.36
	40 2-Chloroethyl Vinyl Ether	63	8.623	8.623	(1.129)	128070	150.000	154.56(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.133)	417853	750.000	691.54(Q)
	42 Cis 1,3-dichloropropene	75	8.914	8.914	(1.167)	424803	150.000	153.81
$	43 d8-Toluene	98	9.186	9.186	(1.203)	239633	50.0000	47.713
	44 Toluene	92	9.266	9.266	(1.213)	537240	150.000	120.64(Q)
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.230)	359227	150.000	154.74
	46 2-Hexanone	43	9.537	9.537	(0.884)	658433	750.000	450.96(Q)
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.254)	199640	150.000	144.00
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	362456	150.000	144.18
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	291013	150.000	146.65
	50 Chlorodibromomethane	129	10.171	10.171	(0.943)	256549	150.000	151.70
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	211704	150.000	142.56
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	178614	50.0000	
	53 Chlorobenzene	112	10.834	10.834	(1.005)	526215	150.000	125.61
	54 Ethyl Benzene	91	10.864	10.864	(1.007)	719154	150.000	101.51(Q)
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.854	(1.007)	235095	150.000	146.62
	56 m,p-xylene	106	10.944	10.944	(1.015)	693534	300.000	267.84(Q)
	57 o-Xylene	106	11.437	11.437	(1.061)	443859	150.000	164.93(Q)
	58 Styrene	104	11.467	11.467	(1.063)	604009	150.000	145.16
	59 Isopropyl Benzene	105	11.809	11.809	(0.877)	765486	150.000	92.525
	60 Bromoform	173	11.869	11.869	(0.881)	184206	150.000	138.48
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	287454	150.000	120.26
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.123)	109555	50.0000	52.409
	63 1,2,3-Trichloropropane	110	12.160	12.160	(0.903)	59137	150.000	124.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	94977	150.000	129.29
	66 N-Propyl Benzene	91	12.271	12.271	(0.911)	798434	150.000	74.759(Q)
	67 Bromobenzene	156	12.351	12.351	(0.917)	321436	150.000	139.37(Q)
	68 1,3,5-Trimethyl Benzene	105	12.442	12.442	(0.924)	708315	150.000	105.47(Q)
	69 2-Chloro Toluene	91	12.502	12.502	(0.928)	729939	150.000	104.02
	70 4-Chloro Toluene	91	12.542	12.542	(0.931)	684866	150.000	101.81
	71 T-Butyl Benzene	119	12.854	12.854	(0.954)	722068	150.000	125.68
	72 1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	731940	150.000	110.71(Q)
	73 S-Butyl Benzene	105	13.095	13.095	(0.972)	812152	150.000	85.922
	74 4-Isopropyl Toluene	119	13.246	13.246	(0.984)	739478	150.000	114.02
	75 1,3-Dichlorobenzene	146	13.387	13.387	(0.994)	545268	150.000	138.38
*	76 d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	122904	50.0000	
	77 1,4-Dichlorobenzene	146	13.507	13.507	(1.003)	547350	150.000	138.82
	78 N-Butyl Benzene	91	13.718	13.718	(1.019)	717047	150.000	102.38(Q)
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	108113	50.0000	48.361
	80 1,2-Dichlorobenzene	146	13.949	13.949	(1.036)	516441	150.000	137.91
	81 1,2-Dibromo 3-Chloropropane	75	14.854	14.854	(1.103)	50577	150.000	122.29
	82 1,2,4-Trichlorobenzene	180	15.899	15.899	(1.181)	304271	150.000	133.52
	83 Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	204107	150.000	132.98
	84 Naphthalene	128	16.221	16.221	(1.204)	474513	150.000	114.80
	85 1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	271577	150.000	124.65

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 1500723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD150
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

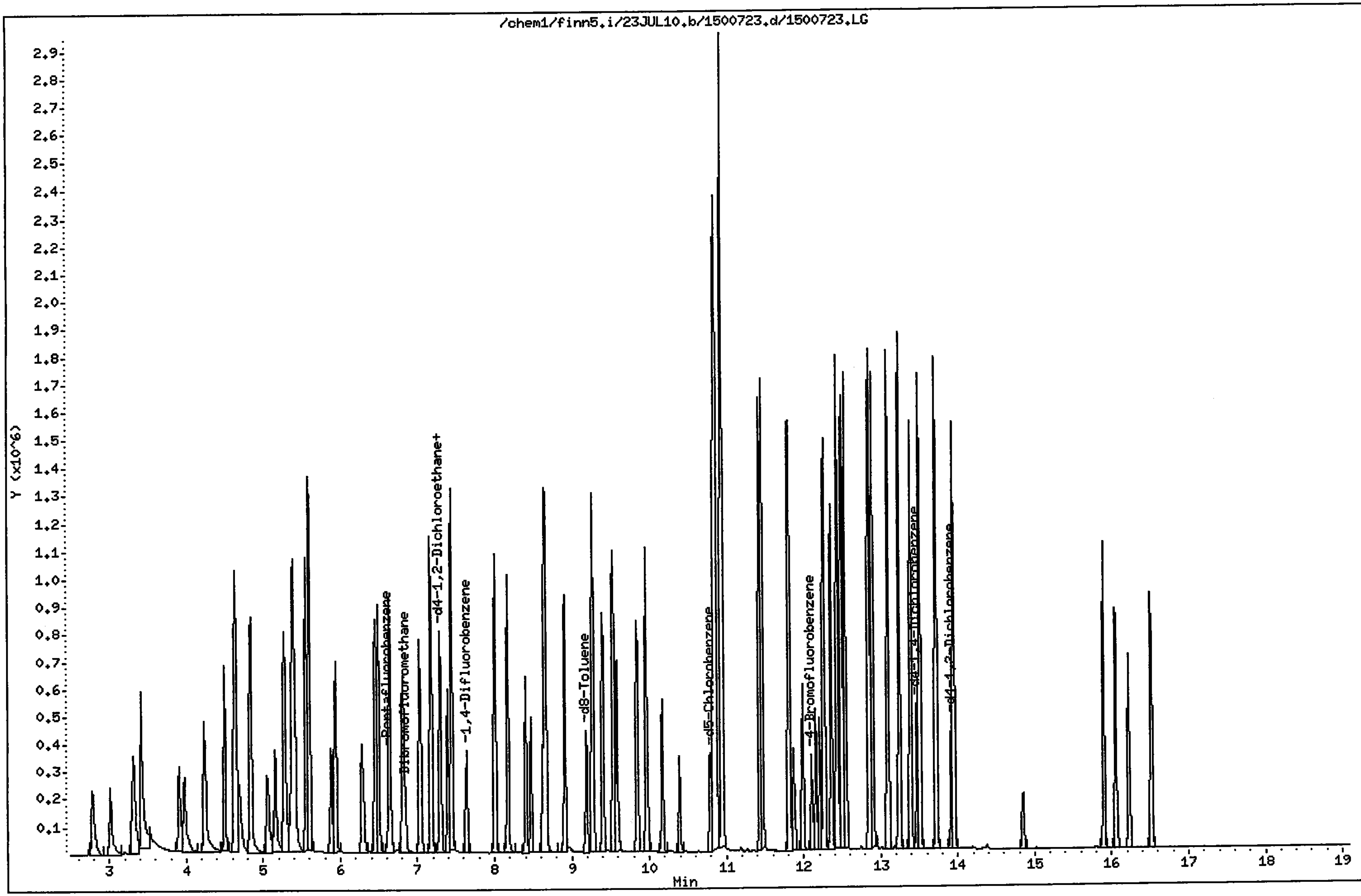
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	155784	18.81
34 1,4-Difluorobenze	191559	95780	383118	228573	19.32
52 d5-Chlorobenzene	161199	80600	322398	178614	10.80
76 d4-1,4-Dichlorobe	88279	44140	176558	122904	39.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Data File: /chem1/finn5.i/23JUL10.b/1500723.d
Date : 23-JUL-2010 17:49
Client ID: VSTD150
Sample Info: IC0723,5,5,0
Column phase: Rtx502.2

Instrument: finn5.i
Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/2000723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD200
Inj Date : 23-JUL-2010 17:18
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.015	3.015	(0.455)	382873	200.000	185.53
2 Chloromethane	50	3.316	3.316	(0.501)	831334	200.000	149.72
3 Vinyl Chloride	62	3.417	3.417	(0.516)	675701	200.000	153.89
4 Bromomethane	94	3.909	3.909	(0.590)	368903	200.000	154.71
5 Chloroethane	64	3.980	3.980	(0.601)	364783	200.000	127.22
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	615782	200.000	145.11
7 Acrolein	56	4.633	4.633	(0.700)	343518	1000.00	648.94
8 112Trichlorol22Trifluoroethane	101	4.643	4.643	(0.701)	482521	200.000	145.24
9 Acetone	43	4.693	4.693	(0.709)	560993	1000.00	629.87
10 1,1-Dichloroethene	96	4.844	4.844	(0.731)	470540	200.000	156.08(Q)
11 Bromoethane	108	5.055	5.055	(0.763)	376320	200.000	168.56
12 Iodomethane	142	5.156	5.156	(0.778)	652382	200.000	183.02
13 Methylene Chloride	84	5.276	5.276	(0.797)	495091	200.000	145.85(Q)
14 Acrylonitrile	53	5.367	5.367	(0.810)	139945	200.000	177.96(Q)

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/Kg)	(ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.407	5.407	(0.816)	732622	200.000	158.02(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	1217955	200.000	130.26(Q)
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	459768	200.000	178.95(Q)
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	672353	200.000	149.42
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	680449	200.000	143.96
	20 2-Butanone	43	6.291	6.291	(0.950)	785164	1000.00	783.47
	21 2,2-Dichloropropane	77	6.462	6.462	(0.976)	544411	200.000	188.24
	22 Cis-1,2-Dichloroethene	96	6.502	6.502	(0.982)	438984	200.000	193.86
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	159149	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	610807	200.000	159.10
	26 Bromochloromethane	128	6.814	6.814	(1.029)	213240	200.000	198.34
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	84837	50.0000	44.726(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.062)	549252	200.000	183.94
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	545791	200.000	175.44
	30 Carbon Tetrachloride	117	7.296	7.296	(0.955)	522753	200.000	193.23
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	89066	50.0000	42.912
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	485007	200.000	177.58
	33 Benzene	78	7.447	7.447	(0.975)	870526	200.000	115.72
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	229095	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	422519	200.000	191.70
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	435024	200.000	183.44
	37 Bromodichloromethane	83	8.412	8.412	(1.101)	471123	200.000	185.82
	39 Dibromomethane	93	8.472	8.472	(1.109)	228343	200.000	193.98
	40 2-Chloroethyl Vinyl Ether	63	8.623	8.623	(1.129)	181565	200.000	218.62(Q)
	41 4-Methyl-2-Pentanone	58	8.663	8.663	(1.134)	536767	1000.00	886.32(Q)
	42 Cis 1,3-dichloropropene	75	8.914	8.914	(1.167)	522307	200.000	188.68
$	43 d8-Toluene	98	9.186	9.186	(1.203)	239843	50.0000	47.646
	44 Toluene	92	9.276	9.276	(1.214)	647650	200.000	145.10(Q)
	45 Trans 1,3-Dichloropropene	75	9.407	9.407	(1.232)	465557	200.000	200.09
	46 2-Hexanone	43	9.537	9.537	(0.884)	763183	1000.00	544.40(Q)
	47 1,1,2-Trichloroethane	97	9.588	9.588	(1.255)	280030	200.000	201.53
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	469237	200.000	194.40
	49 Tetrachloroethene	166	9.960	9.960	(0.923)	404966	200.000	212.54
	50 Chlorodibromomethane	129	10.171	10.171	(0.942)	362369	200.000	223.17
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	296560	200.000	199.25
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	171495	50.0000	
	53 Chlorobenzene	112	10.834	10.834	(1.004)	637891	200.000	158.58
	54 Ethyl Benzene	91	10.864	10.864	(1.007)	844494	200.000	124.15(Q)
	55 1,1,1,2-Tetrachloroethane	131	10.864	10.864	(1.007)	337259	200.000	219.07
	56 m,p-xylene	106	10.944	10.944	(1.014)	845893	400.000	340.24(Q)
	57 o-Xylene	106	11.437	11.437	(1.060)	593625	200.000	229.74(Q)
	58 Styrene	104	11.467	11.467	(1.062)	750474	200.000	187.84(Q)
	59 Isopropyl Benzene	105	11.819	11.819	(0.878)	880078	200.000	89.802(Q)
	60 Bromoform	173	11.879	11.879	(0.882)	275819	200.000	175.04
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	411745	200.000	145.43
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.122)	119170	50.0000	59.375
	63 1,2,3-Trichloropropane	110	12.160	12.160	(0.903)	85172	200.000	151.85

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	138249	200.000	158.87
66	N-Propyl Benzene	91	12.271	12.271	(0.911)	919942	200.000	72.715(Q)
67	Bromobenzene	156	12.361	12.361	(0.918)	475914	200.000	174.20(Q)
68	1,3,5-Trimethyl Benzene	105	12.442	12.442	(0.924)	843459	200.000	106.02(Q)
69	2-Chloro Toluene	91	12.502	12.502	(0.928)	835546	200.000	100.51(Q)
70	4-Chloro Toluene	91	12.552	12.552	(0.932)	905693	200.000	113.66(Q)
71	T-Butyl Benzene	119	12.854	12.854	(0.954)	852231	200.000	125.22(Q)
72	1,2,4-Trimethylbenzene	105	12.904	12.904	(0.958)	866210	200.000	110.61(Q)
73	S-Butyl Benzene	105	13.095	13.095	(0.972)	959505	200.000	85.695(Q)
74	4-Isopropyl Toluene	119	13.246	13.246	(0.984)	862152	200.000	112.22(Q)
75	1,3-Dichlorobenzene	146	13.397	13.397	(0.995)	707131	200.000	151.50
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	145587	50.0000	
77	1,4-Dichlorobenzene	146	13.507	13.507	(1.003)	703363	200.000	150.59
78	N-Butyl Benzene	91	13.728	13.728	(1.019)	866011	200.000	104.39(Q)
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.034)	127083	50.0000	47.990
80	1,2-Dichlorobenzene	146	13.949	13.949	(1.036)	673403	200.000	151.80
81	1,2-Dibromo 3-Chloropropane	75	14.854	14.854	(1.103)	74509	200.000	152.08
82	1,2,4-Trichlorobenzene	180	15.899	15.899	(1.181)	430578	200.000	159.50
83	Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	315558	200.000	173.56
84	Naphthalene	128	16.231	16.231	(1.205)	551716	200.000	112.68
85	1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	376206	200.000	145.77

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 2000723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD200
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	159149	21.38
34 1,4-Difluorobenze	191559	95780	383118	229095	19.60
52 d5-Chlorobenzene	161199	80600	322398	171495	6.39
76 d4-1,4-Dichlorobe	88279	44140	176558	145587	64.92

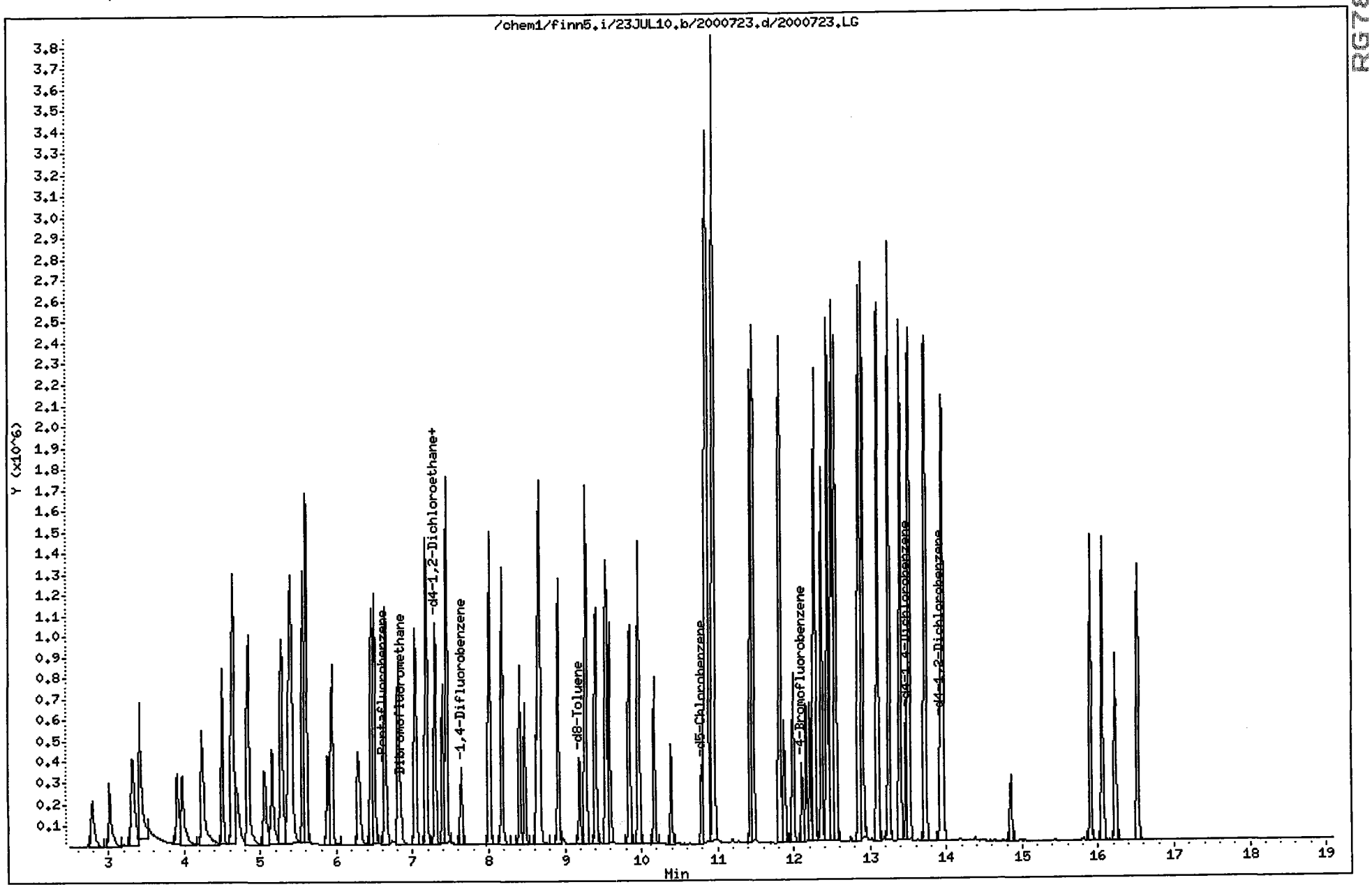
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Data File: /chem1/finn5.i/23JUL10.b/2000723.d
Date : 23-JUL-2010 17:18
Client ID: VSTD200
Sample Info: IC0723,5,5,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



RG78:99399

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/ICV0723.d
Lab Smp Id: ICV0723 Client Smp ID: ICV0723
Inj Date : 23-JUL-2010 22:14
Operator : PB Inst ID: finn5.i
Smp Info : ICV0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.015	(0.454)	88303	52.1032	52.103
2 Chloromethane	50	3.306	3.316	(0.499)	217848	47.7755	47.775
3 Vinyl Chloride	62	3.417	3.417	(0.516)	192357	53.3461	53.346
4 Bromomethane	94	3.909	3.909	(0.590)	122206	62.4063	62.406
5 Chloroethane	64	3.980	3.980	(0.601)	123869	52.6030	52.603
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	196733	56.4516	56.452
7 Acrolein	56	4.623	4.633	(0.698)	109928	252.871	252.87
8 112Trichloro122Trifluoroethane	101	4.643	4.643	(0.701)	142159	52.1041	52.104
9 Acetone	43	4.683	4.693	(0.707)	183316	250.626	250.63
10 1,1-Dichloroethene	96	4.834	4.844	(0.730)	130784	52.8244	52.824
11 Bromoethane	108	5.055	5.055	(0.763)	98954	53.9712	53.971
12 Iodomethane	142	5.156	5.156	(0.778)	164327	56.1364	56.136
13 Methylene Chloride	84	5.276	5.276	(0.797)	130295	46.7382	46.738
14 Acrylonitrile	53	5.357	5.367	(0.809)	36679	56.7973	56.797(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.407	(0.815)	193967	50.9456	50.946(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	446067	58.0915	58.092
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	107789	51.0864	51.086
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	205828	55.6982	55.698
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	207542	53.4687	53.469
	20 2-Butanone	43	6.281	6.291	(0.948)	220070	267.396	267.40
	21 2,2-Dichloropropane	77	6.462	6.462	(0.976)	115299	48.5440	48.544
	22 Cis-1,2-Dichloroethene	96	6.492	6.502	(0.980)	96880	52.0962	52.096
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	130699	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	163311	51.7971	51.797
	26 Bromochloromethane	128	6.804	6.814	(1.027)	45855	51.9357	51.936
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	79530	51.0546	51.055(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.062)	121554	49.5682	49.568
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	128897	48.8768	48.877
	30 Carbon Tetrachloride	117	7.296	7.296	(0.955)	112147	48.9029	48.903
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	85607	50.2236	50.224
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	113558	49.0506	49.051
	33 Benzene	78	7.437	7.447	(0.974)	327392	51.3396	51.340
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	194200	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	89432	47.8663	47.866
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	96896	48.2020	48.202
	37 Bromodichloromethane	83	8.402	8.412	(1.100)	105966	49.3042	49.304
	39 Dibromomethane	93	8.472	8.472	(1.109)	50061	50.1678	50.168
	40 2-Chloroethyl Vinyl Ether	63	8.623	8.623	(1.129)	36400	51.7056	51.706(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.663	(1.133)	124957	243.406	243.40
	42 Cis 1,3-dichloropropene	75	8.904	8.914	(1.166)	119381	50.8758	50.876
$	43 d8-Toluene	98	9.186	9.186	(1.203)	213419	50.0149	50.015
	44 Toluene	92	9.266	9.276	(1.213)	178106	47.0736	47.074
	45 Trans 1,3-Dichloropropene	75	9.397	9.407	(1.230)	97312	49.3376	49.338
	46 2-Hexanone	43	9.527	9.537	(0.884)	302971	230.222	230.22
	47 1,1,2-Trichloroethane	97	9.578	9.588	(1.254)	58163	49.3789	49.379
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	111278	49.1112	49.111
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	77284	43.2093	43.209
	50 Chlorodibromomethane	129	10.161	10.171	(0.942)	74343	48.7727	48.773
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	60617	48.0450	48.045
*	52 d5-Chlorobenzene	117	10.784	10.794	(1.000)	160989	50.0000	
	53 Chlorobenzene	112	10.824	10.834	(1.004)	173699	46.0010	46.001
	54 Ethyl Benzene	91	10.864	10.864	(1.007)	323591	50.6763	50.676
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.864	(1.007)	63372	43.8510	43.851
	56 m,p-xylene	106	10.944	10.944	(1.015)	245109	105.022	105.02
	57 o-Xylene	106	11.427	11.437	(1.060)	120691	49.7567	49.757
	58 Styrene	104	11.457	11.467	(1.062)	197449	52.6464	52.646
	59 Isopropyl Benzene	105	11.809	11.819	(0.877)	319484	52.7192	52.719
	60 Bromoform	173	11.869	11.879	(0.881)	46057	47.2689	47.269
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	81604	46.6101	46.610
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.123)	92917	49.3160	49.316
	63 1,2,3-Trichloropropane	110	12.160	12.160	(0.903)	16385	47.2399	47.240

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	26774	49.7563	49.756
	66 N-Propyl Benzene	91	12.261	12.271	(0.910)	379504	48.5107	48.511
	67 Bromobenzene	156	12.351	12.361	(0.917)	77896	46.1089	46.109
	68 1,3,5-Trimethyl Benzene	105	12.432	12.442	(0.923)	260307	52.9158	52.916
	69 2-Chloro Toluene	91	12.492	12.502	(0.928)	265535	51.6571	51.657
	70 4-Chloro Toluene	91	12.542	12.552	(0.931)	238191	48.3413	48.341
	71 T-Butyl Benzene	119	12.844	12.854	(0.954)	232736	55.3018	55.302
	72 1,2,4-Trimethylbenzene	105	12.894	12.904	(0.957)	256248	52.9143	52.914
	73 S-Butyl Benzene	105	13.095	13.095	(0.972)	356050	51.4252	51.425
	74 4-Isopropyl Toluene	119	13.236	13.246	(0.983)	257043	54.1060	54.106
	75 1,3-Dichlorobenzene	146	13.387	13.397	(0.994)	136992	47.4636	47.464
*	76 d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	90026	50.0000	
	77 1,4-Dichlorobenzene	146	13.507	13.507	(1.003)	134851	46.6906	46.691
	78 N-Butyl Benzene	91	13.718	13.728	(1.019)	266189	51.8878	51.888
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.919	(1.033)	82049	50.1059	50.106
	80 1,2-Dichlorobenzene	146	13.949	13.949	(1.036)	130036	47.4052	47.405
	81 1,2-Dibromo 3-Chloropropane	75	14.844	14.854	(1.102)	14043	46.3542	46.354
	82 1,2,4-Trichlorobenzene	180	15.899	15.899	(1.181)	62702	37.5627	37.563 (R)
	83 Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	47253	42.0301	42.030
	84 Naphthalene	128	16.221	16.231	(1.204)	125569	41.4735	41.473
	85 1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	61205	38.3513	38.351

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: ICV0723.d
Lab Smp Id: ICV0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: ICV0723
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	130699	-0.32
34 1,4-Difluorobenze	191559	95780	383118	194200	1.38
52 d5-Chlorobenzene	161199	80600	322398	160989	-0.13
76 d4-1,4-Dichlorobe	88279	44140	176558	90026	1.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 23JUL10
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: ICV0723 Client Smp ID: ICV0723
Level: LOW Operator: PB
Data Type: MS DATA SampleType: LCS
SpikeList File: all.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.000	52.103	104.21	53-148
2	Chloromethane	50.000	47.775	95.55	64-125
3	Vinyl Chloride	50.000	53.346	106.69	63-137
4	Bromomethane	50.000	62.406	124.81	57-136
5	Chloroethane	50.000	52.603	105.21	64-131
6	Trichlorofluoromet	50.000	56.452	112.90	69-132
7	Acrolein	250.00	252.87	101.15	54-137
8	112Trichloro122Tri	50.000	52.104	104.21	74-130
9	Acetone	250.00	250.63	100.25	60-131
10	1,1-Dichloroethene	50.000	52.824	105.65	75-126
11	Bromoethane	50.000	53.971	107.94	76-126
12	Iodomethane	50.000	56.136	112.27	65-139
13	Methylene Chloride	50.000	46.738	93.48	70-123
15	Carbon Disulfide	50.000	58.092	116.18	71-129
14	Acrylonitrile	50.000	56.797	113.59	67-125
16	Methyl tert-Butyl	50.000	50.946	101.89	70-120
17	Trans-1,2-Dichloro	50.000	51.086	102.17	80-120
18	Vinyl Acetate	50.000	55.698	111.40	60-136
19	1,1-Dichloroethane	50.000	53.469	106.94	80-120
20	2-Butanone	250.00	267.40	106.96	70-120
21	2,2-Dichloropropan	50.000	48.544	97.09	74-123
22	Cis-1,2-Dichloroet	50.000	52.096	104.19	80-120
24	Chloroform	50.000	51.797	103.59	80-120
26	Bromochloromethane	50.000	51.936	103.87	80-120
27	1,1,1-Trichloroeth	50.000	49.568	99.14	77-121
29	1,1-Dichloropropen	50.000	48.877	97.75	80-120
30	Carbon Tetrachlori	50.000	48.903	97.81	77-122
32	1,2-Dichloroethane	50.000	49.051	98.10	76-120
33	Benzene	50.000	51.340	102.68	80-120
35	Trichloroethene	50.000	47.866	95.73	80-120
36	1,2-Dichloropropan	50.000	48.202	96.40	80-120
37	Bromodichlorometha	50.000	49.304	98.61	77-121
39	Dibromomethane	50.000	50.168	100.34	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	50.000	51.706	103.41	10-191
41 4-Methyl-2-Pentano	250.00	243.40	97.36	67-120
42 Cis 1,3-dichloropr	50.000	50.876	101.75	74-120
44 Toluene	50.000	47.074	94.15	80-120
45 Trans 1,3-Dichloro	50.000	49.338	98.68	65-120
46 2-Hexanone	250.00	230.22	92.09	65-130
47 1,1,2-Trichloroeth	50.000	49.379	98.76	80-120
48 1,3-Dichloropropan	50.000	49.111	98.22	80-120
49 Tetrachloroethene	50.000	43.209	86.42	80-121
50 Chlorodibromometha	50.000	48.773	97.55	64-120
51 1,2-Dibromoethane	50.000	48.045	96.09	75-120
53 Chlorobenzene	50.000	46.001	92.00	80-120
55 1,1,1,2-Tetrachlor	50.000	43.851	87.70	69-121
54 Ethyl Benzene	50.000	50.676	101.35	80-127
56 m,p-xylene	100.00	105.02	105.02	80-125
57 o-Xylene	50.000	49.757	99.51	78-120
58 Styrene	50.000	52.646	105.29	80-123
59 Isopropyl Benzene	50.000	52.719	105.44	80-127
60 Bromoform	50.000	47.269	94.54	60-120
61 1,1,2,2-Tetrachlor	50.000	46.610	93.22	74-120
63 1,2,3-Trichloropro	50.000	47.240	94.48	72-121
65 Trans-1,4-Dichloro	50.000	49.756	99.51	65-126
66 N-Propyl Benzene	50.000	48.511	97.02	80-132
67 Bromobenzene	50.000	46.109	92.22	80-120
68 1,3,5-Trimethyl Be	50.000	52.916	105.83	80-125
69 2-Chloro Toluene	50.000	51.657	103.31	80-125
70 4-Chloro Toluene	50.000	48.341	96.68	80-127
71 T-Butyl Benzene	50.000	55.302	110.60	87-122
72 1,2,4-Trimethylben	50.000	52.914	105.83	80-126
73 S-Butyl Benzene	50.000	51.425	102.85	80-134
74 4-Isopropyl Toluen	50.000	54.106	108.21	80-131
75 1,3-Dichlorobenzen	50.000	47.464	94.93	80-120
77 1,4-Dichlorobenzen	50.000	46.691	93.38	80-120
78 N-Butyl Benzene	50.000	51.888	103.78	80-138
80 1,2-Dichlorobenzen	50.000	47.405	94.81	80-120
81 1,2-Dibromo 3-Chlo	50.000	46.354	92.71	59-120
82 1,2,4-Trichloroben	50.000	37.563	75.13*	78-130
83 Hexachloro 1,3-But	50.000	42.030	84.06	76-129
84 Naphthalene	50.000	41.473	82.95	66-120
85 1,2,3-Trichloroben	50.000	38.351	76.70	73-123

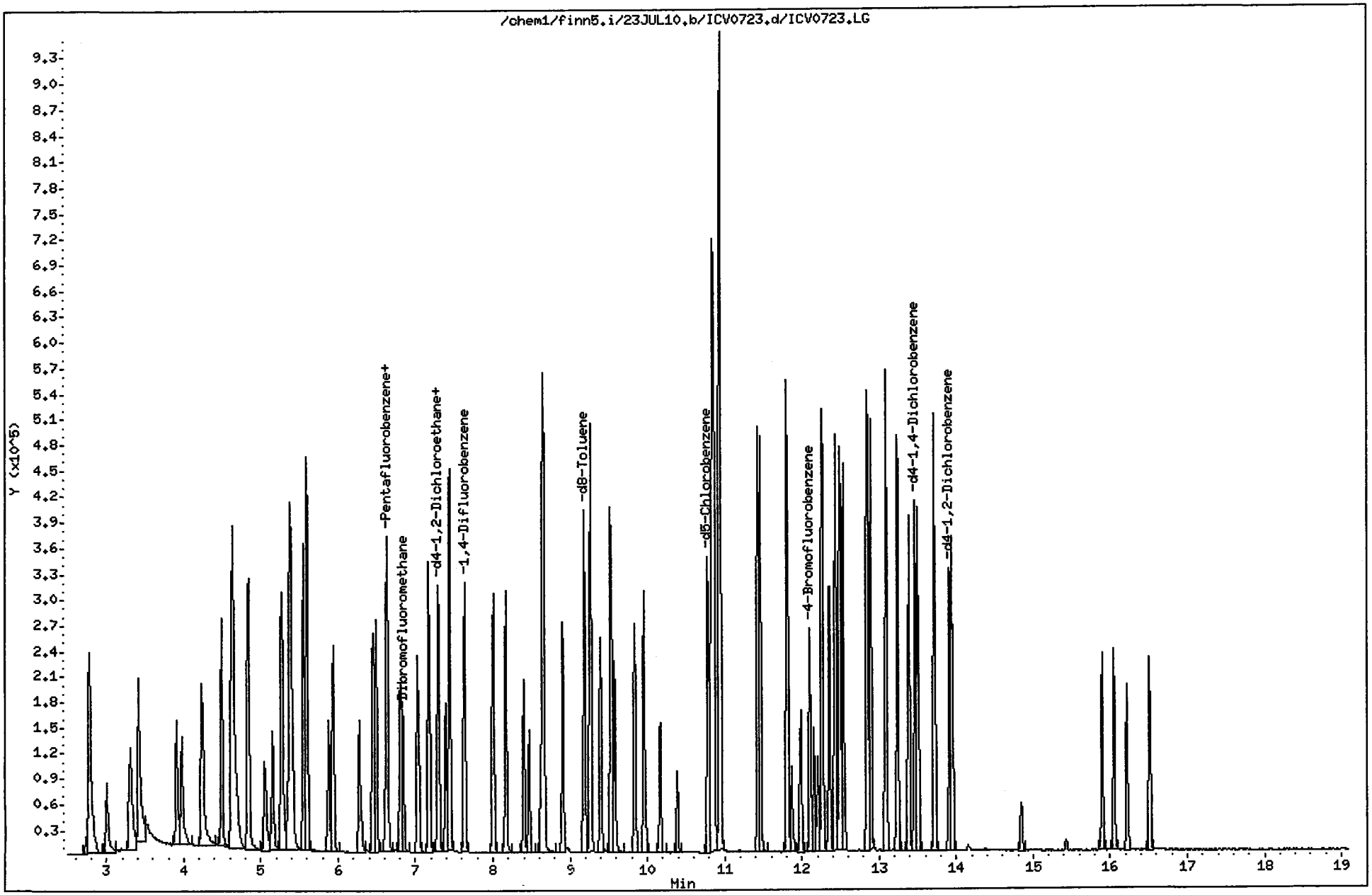
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	51.055	102.11	30-160

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	50.224	100.45	75-152
$ 43 d8-Toluene	50.000	50.015	100.03	82-115
$ 62 4-Bromofluorobenze	50.000	49.316	98.63	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.106	100.21	80-120

Data File: /chem1/finn5.i/23JUL10.b/ICV0723.d
Date : 23-JUL-2010 22:14
Client ID: ICV0723
Sample Info: ICV0723,5,5,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



Volatile Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RG78

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: RG78 Client ID: Floyd Snider

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 7/23/10 Analysis Start Date: 8/4/10

pH ≤ 2.0	YES / NO / NA	Method Blank In Control?	YES / NO
BFB Tune Meets Criteria?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
Internal Standard Meets Criteria?	YES / NO / NA	Surrogate Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	YES / NO / NA		

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

QC on J

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 8/4/10

Reviewer: _____ **Date:** 8/10/10

Analytical Resources Inc.: Organics Instrument Log

FINN5 Serial No.: 5500-000421A

Date: 8/6/06 Analysis: 8260C Analyst: LH

GC Program: F5 Column No: 8M7Z4 Column Type: RTX-502.2

Instrument Tune (.U or .CT.): BFB0806 EM Voltage: 1635

Calibration File: 0500806A Curve Date: 7/27/06

IS/SS	Ical/Ccal	LCS/ICV
W648-2	W646-2	W646-2

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/finn5.i/06AUG10.b

	Time	Filename	LabID	ClientID	WT									
1	0834	BFB0806.d	BFB0806	BFB0806	0.00									
2	0932	0500806.d	CC0806	VSTD050	5.00	6.61	125083	7.63	180480	10.77	148780	13.46	80517	
3	1017	0500806A.d	CC0806	VSTD050	5.00	6.63	116497	7.64	171296	10.79	143854	13.47	82635	
4	1059	LCS0806.d	LCS0806	LCS0806	5.00	6.61	123049	7.63	172433	10.77	138084	13.46	77255	
5	1133	LCS0806A.d	LCS0806	LCS0806	5.00	6.62	122424	7.63	177742	10.78	147651	13.47	81973	
6	1200	MB0806.d	MB0806	MB0806	5.00	6.63	109261	7.65	159957	10.79	140974	13.48	69910	
7	1255	RG62A.d	RG62A	FTATW02-8	5.00	6.63	139074	7.64	198536	10.79	157401	13.47	75010	
8	1226	RG62C.d	RG62C	GTSP-TB-08	2	2	1	6.61	104366	7.63	157344	10.77	136159	13.46	67043
9	1319	RG78A.d	RG78A	PSB9A-11-13.5-07301	5.00	6.63	115472	7.65	175492	10.79	149839	13.48	75834	
10	1346	RG78B.d	RG78B	PSB9A-1.5-2-073010	5.00	6.61	117385	7.63	177385	10.77	155396	13.46	77087	
11	1412	RG78C.d	RG78C	PSB9A-2-4-073010	5.00	6.61	115329	7.63	176802	10.77	155984	13.46	79509	
12	1439	RG78D.d	RG78D	PSB9A-4-6-073010	5.00	6.61	116318	7.62	177830	10.77	155205	13.46	82476	
13	1505	RG78E.d	RG78E	PSB9A-0-0.5-073010	5.00	6.62	104226	7.63	155789	10.77	128641	13.46	50970	
14	1532	RG78F.d	RG78F	PSB10-0-0.5-073010	5.00	6.63	114676	7.65	176687	10.79	153763	13.48	74102	
15	1558	RG78G.d	RG78G	PSB10-1.5-2-073010	5.00	6.63	120761	7.65	182802	10.79	152036	13.48	65813	
16	1624	RG78H.d	RG78H	PSB10-2-4-073010	5.00	6.63	116521	7.64	179466	10.79	155258	13.48	79056	
17	1651	RG78I.d	RG78I	PSB10-4-6-073010	5.00	6.62	122146	7.64	182739	10.78	145508	13.47	53410	
18	1717	RG78J.d	RG78J	PSB10-8.5-10-073010	5.00	6.63	122137	7.65	187798	10.79	160496	13.48	78355	
19	1744	RG78K.d	RG78K	PSB10-14-15-073010	5.00	6.62	123943	7.64	191508	10.78	166710	13.47	84603	
20	1810	RG78L.d	RG78L	PSB10-20-25-073010	5.00	6.62	123990	7.63	189528	10.78	165443	13.46	80774	
21	1837	RG78M.d	RG78M	PSB9-TB	2	2	1	6.62	117410	7.63	182297	10.78	152791	13.46	74258
22	1903	RG78N.d	RG78N	PSB10-TB	1	1	1	6.61	122217	7.63	184540	10.77	153922	13.46	71590
23	1929	RG78JMS.d	RG78JMS	PSB10-8.5-10-07 MS	5.00	6.63	142533	7.65	216425	10.79	167188	13.48	76577	
24	1956	RG78JMSD.d	RG78JMSD	PSB10-8.5-10-07 MSD	5.00	6.62	166968	7.64	235843	10.78	179753	13.47	80353	
25	2022	RG62B0.d	RG62B	FTATW02-9.5	5.00	6.62	121952	7.63	186734	10.78	168083	13.46	90685	

Main

Mai

Every

Form

Organ... Instrument Log

RG78:00410

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/finn5.i/06AUG10.b

ARI Job No.: BFB0 Method: bfb8260.m Instrument: finn5.i Date: 06-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0834	BFB0806.d	BFB0806	BFB0806	1	NO MANUAL INTEGRATION
1017	0500806A.d	CC0806	VSTD050	1	NO MANUAL INTEGRATION
1059	LCS0806.d	LCS0806	LCS0806	1	NO MANUAL INTEGRATION
1133	LCS0806A.d	LCS0806	LCS0806	1	NO MANUAL INTEGRATION
1200	MB0806.d	MB0806	MB0806	1	NO MANUAL INTEGRATION
1319	RG78A.d	RG78A	PSB9A-11-1	1	NO MANUAL INTEGRATION
1346	RG78B.d	RG78B	PSB9A-1.5-	1	NO MANUAL INTEGRATION
1412	RG78C.d	RG78C	PSB9A-2-4-	1	NO MANUAL INTEGRATION
1439	RG78D.d	RG78D	PSB9A-4-6-	1	NO MANUAL INTEGRATION
1505	RG78E.d	RG78E	PSB9A-0-0.	1	NO MANUAL INTEGRATION
1532	RG78F.d	RG78F	PSB10-0-0.	1	NO MANUAL INTEGRATION
1558	RG78G.d	RG78G	PSB10-1.5-	1	NO MANUAL INTEGRATION
1624	RG78H.d	RG78H	PSB10-2-4-	1	NO MANUAL INTEGRATION
1651	RG78I.d	RG78I	PSB10-4-6-	1	NO MANUAL INTEGRATION
1717	RG78J.d	RG78J	PSB10-8.5-	1	NO MANUAL INTEGRATION
1744	RG78K.d	RG78K	PSB10-14-1	1	NO MANUAL INTEGRATION
1810	RG78L.d	RG78L	PSB10-20-2	1	NO MANUAL INTEGRATION
1837	RG78M.d	RG78M	PSB9-TB	1	NO MANUAL INTEGRATION
1903	RG78N.d	RG78N	PSB10-TB	1	NO MANUAL INTEGRATION
1929	RG78JMS.d	RG78JMS	PSB10-8.5-	1	NO MANUAL INTEGRATION
1956	RG78JMSD.d	RG78JMSD	PSB10-8.5-	1	NO MANUAL INTEGRATION

Q-FLAG SUMMARY FOR DATABATCH - /chem1/finn5.i/06AUG10.b

Instrument: finn5.i Date: 06-AUG-2010 Method: s8260b.m

INITIAL CAL: 23-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

CONTINUING CAL: 06-AUG-2010

Compound	%D
Bromomethane	35.8
Iodomethane	23.4
Acrylonitrile	27.1
N-Butyl Benzene	22.7

Data File: /chem1/finn5.i/06AUG10.b/BFB0806.d

Date : 06-AUG-2010 08:34

Client ID: BFB0806

Instrument: finn5.i

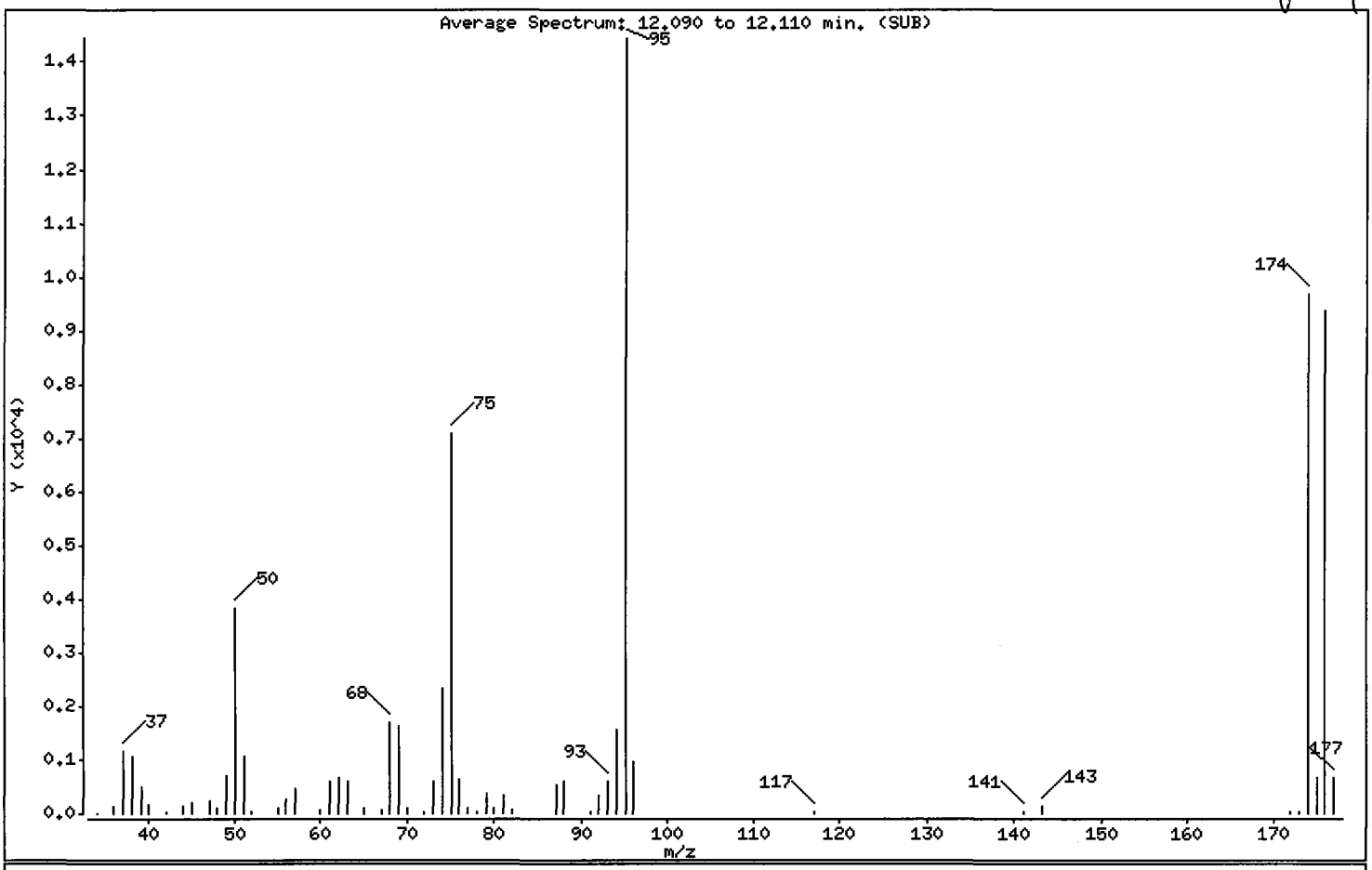
Sample Info: BFB0806,BFB0806,,1,06AUG10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	26.50
75	30.00 - 66.00% of mass 95	49.17
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.17 (0.25)
174	50.00 - 101.00% of mass 95	66.96
175	4.00 - 9.00% of mass 174	4.60 (6.86)
176	93.00 - 101.00% of mass 174	65.04 (97.14)
177	5.00 - 9.00% of mass 176	4.59 (7.06)

Data File: /chem1/finn5.i/06AUG10.b/BFB0806.d

Date : 06-AUG-2010 08:34

Client ID: BFB0806

Instrument: finn5.i

Sample Info: BFB0806,BFB0806,,1,06AUG10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

Data File: BFB0806.d
Spectrum: Average Spectrum: 12.090 to 12.110 min. (SUB)
Location of Maximum: 95.00
Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
34.00	16	52.00	24	73.00	586	93.00	607
36.00	124	55.00	92	74.00	2330	94.00	1557
37.00	1170	56.00	274	75.00	7104	95.00	14448
38.00	1057	57.00	478	76.00	632	96.00	980
39.00	498	60.00	63	77.00	85	117.00	43
40.00	176	61.00	597	78.00	21	141.00	19
42.00	19	62.00	680	79.00	380	143.00	119
44.00	118	63.00	602	80.00	103	172.00	31
45.00	184	65.00	86	81.00	347	173.00	24
47.00	236	67.00	54	82.00	59	174.00	9674
48.00	106	68.00	1682	87.00	549	175.00	664
49.00	691	69.00	1632	88.00	595	176.00	9397
50.00	3828	70.00	88	91.00	18	177.00	663
51.00	1073	72.00	17	92.00	333		

Data File: /chem1/finn5.i/06AUG10.b/BFB0806.d

Date : 06-AUG-2010 08:34

Client ID: BFB0806

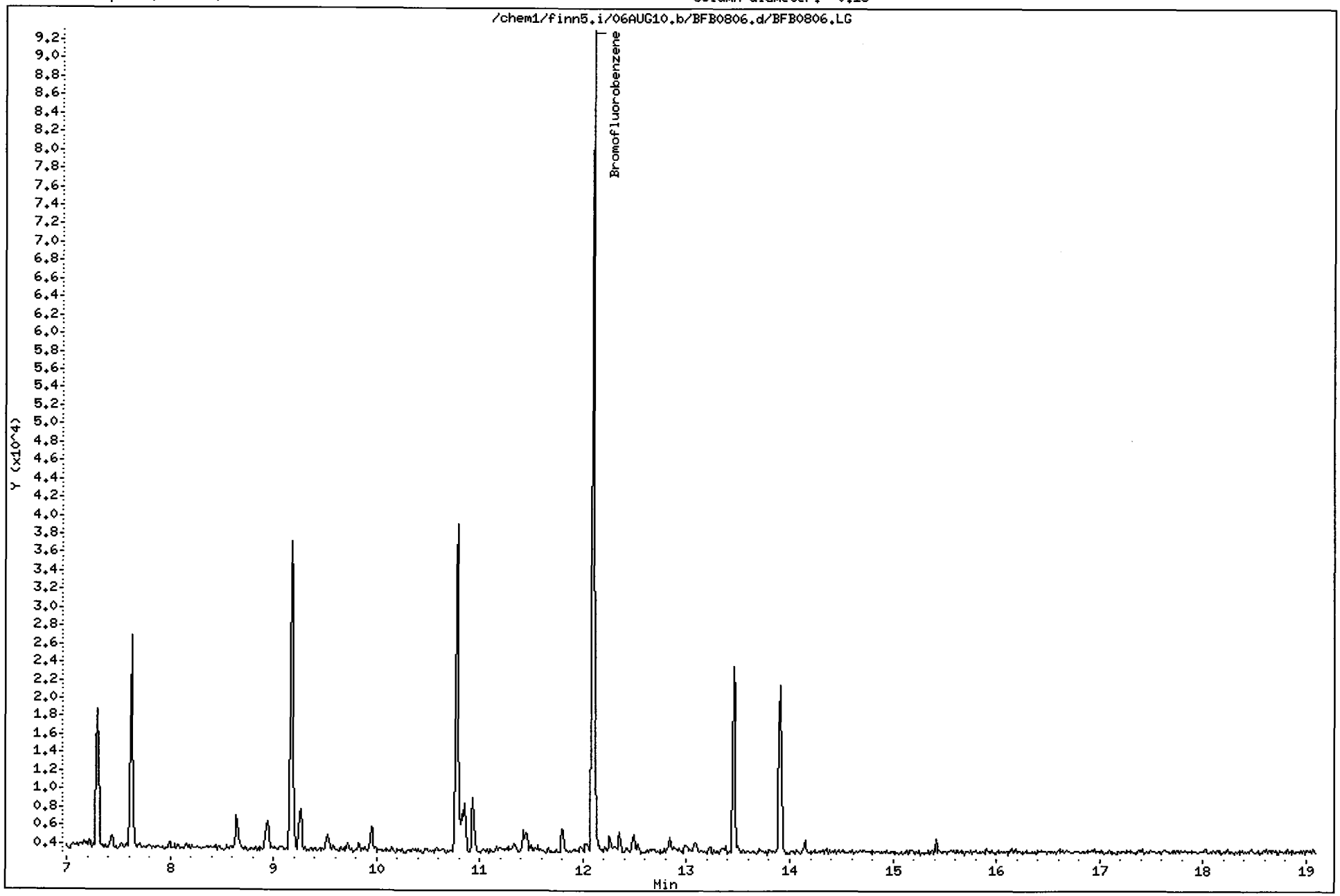
Sample Info: BFB0806,BFB0806,,1,06AUG10,,

Column phase: RTX502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/0500806A.d
Lab Smp Id: CC0806 Client Smp ID: VSTD050
Inj Date : 06-AUG-2010 10:17
Operator : PB Inst ID: finn5.i
Smp Info : CC0806,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 06-Aug-2010 11:23 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.453)	73671	50.0000	48.769
2 Chloromethane	50	3.306	3.306	(0.498)	177387	50.0000	43.644
3 Vinyl Chloride	62	3.427	3.427	(0.517)	161971	50.0000	50.395
4 Bromomethane	94	3.909	3.909	(0.589)	118494	50.0000	67.887
5 Chloroethane	64	3.980	3.980	(0.600)	105952	50.0000	50.479
6 Trichlorofluoromethane	101	4.241	4.241	(0.639)	157578	50.0000	50.728
7 Acrolein	56	4.633	4.633	(0.698)	107204	250.000	276.67
8 112Trichloro122Trifluoroethane	101	4.643	4.643	(0.700)	126750	50.0000	52.120
9 Acetone	43	4.683	4.683	(0.706)	176887	250.000	271.32
10 1,1-Dichloroethene	96	4.844	4.844	(0.730)	114041	50.0000	51.677
11 Bromoethane	108	5.065	5.065	(0.764)	87168	50.0000	53.339
12 Iodomethane	142	5.156	5.156	(0.777)	160953	50.0000	61.687
13 Methylene Chloride	84	5.276	5.276	(0.795)	112928	50.0000	45.447
14 Acrylonitrile	53	5.357	5.357	(0.808)	36579	50.0000	63.548 (Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.814)	161447	50.0000	47.574(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.811)	384841	50.0000	56.228
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.838)	98560	50.0000	52.407
	18 Vinyl Acetate	43	5.879	5.879	(0.886)	196090	50.0000	59.532
	19 1,1-Dichloroethane	63	5.940	5.940	(0.895)	181554	50.0000	52.475
	20 2-Butanone	43	6.281	6.281	(0.947)	217930	250.000	297.07
	21 2,2-Dichloropropane	77	6.462	6.462	(0.974)	96335	50.0000	45.504
	22 Cis-1,2-Dichloroethene	96	6.502	6.502	(0.980)	87371	50.0000	52.710
*	23 Pentafluorobenzene	168	6.633	6.633	(1.000)	116497	50.0000	
	24 Chloroform	83	6.643	6.643	(1.002)	141434	50.0000	50.327
	26 Bromochloromethane	128	6.814	6.814	(1.027)	41648	50.0000	52.921
$	25 Dibromofluoromethane	111	6.844	6.844	(1.032)	67826	50.0000	48.849(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.061)	100460	50.0000	45.960
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	117720	50.0000	50.607
	30 Carbon Tetrachloride	117	7.296	7.296	(0.955)	93193	50.0000	46.072
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.101)	72615	50.0000	47.795
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	101744	50.0000	49.824
	33 Benzene	78	7.447	7.447	(0.975)	294744	50.0000	52.400
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	171296	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	81169	50.0000	49.253
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	86520	50.0000	48.796
	37 Bromodichloromethane	83	8.412	8.412	(1.101)	92080	50.0000	48.572
	39 Dibromomethane	93	8.482	8.482	(1.111)	45255	50.0000	51.416
	40 2-Chloroethyl Vinyl Ether	63	8.623	8.623	(1.129)	36535	50.0000	58.836
	41 4-Methyl-2-Pentanone	58	8.663	8.663	(1.134)	122653	250.000	270.86
	42 Cis 1,3-dichloropropene	75	8.914	8.914	(1.167)	108724	50.0000	52.530
$	43 d8-Toluene	98	9.186	9.186	(1.203)	198967	50.0000	52.862
	44 Toluene	92	9.276	9.276	(1.214)	162509	50.0000	48.694
	45 Trans 1,3-Dichloropropene	75	9.407	9.407	(1.232)	87228	50.0000	50.138
	46 2-Hexanone	43	9.537	9.537	(0.884)	295656	250.000	251.42
	47 1,1,2-Trichloroethane	97	9.588	9.588	(1.255)	53025	50.0000	51.036
	48 1,3-Dichloropropane	76	9.849	9.849	(0.912)	103230	50.0000	50.986
	49 Tetrachloroethene	166	9.960	9.960	(0.923)	73368	50.0000	45.906
	50 Chlorodibromomethane	129	10.171	10.171	(0.942)	65541	50.0000	48.120
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	57037	50.0000	51.253
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	143854	50.0000	
	53 Chlorobenzene	112	10.834	10.834	(1.004)	164711	50.0000	48.816
	54 Ethyl Benzene	91	10.864	10.864	(1.007)	299516	50.0000	52.493
	55 1,1,1,2-Tetrachloroethane	131	10.864	10.864	(1.007)	55191	50.0000	42.739
	56 m,p-xylene	106	10.944	10.944	(1.014)	233649	100.000	112.04
	57 o-Xylene	106	11.437	11.437	(1.060)	110743	50.0000	51.094
	58 Styrene	104	11.467	11.467	(1.062)	186888	50.0000	55.766
	59 Isopropyl Benzene	105	11.819	11.819	(0.878)	292687	50.0000	52.617
	60 Bromoform	173	11.879	11.879	(0.882)	41622	50.0000	46.538
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	76622	50.0000	47.679
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.122)	85250	50.0000	50.636
	63 1,2,3-Trichloropropane	110	12.160	12.160	(0.903)	15456	50.0000	48.547

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	28825	50.0000	58.359
66	N-Propyl Benzene	91	12.271	12.271	(0.911)	368654	50.0000	51.338
67	Bromobenzene	156	12.361	12.361	(0.918)	73342	50.0000	47.296
68	1,3,5-Trimethyl Benzene	105	12.442	12.442	(0.924)	252090	50.0000	55.828
69	2-Chloro Toluene	91	12.502	12.502	(0.928)	236630	50.0000	50.151
70	4-Chloro Toluene	91	12.542	12.542	(0.931)	246046	50.0000	54.401
71	T-Butyl Benzene	119	12.854	12.854	(0.954)	214817	50.0000	55.609
72	1,2,4-Trimethylbenzene	105	12.904	12.904	(0.958)	253073	50.0000	56.932
73	S-Butyl Benzene	105	13.095	13.095	(0.972)	341458	50.0000	53.728
74	4-Isopropyl Toluene	119	13.246	13.246	(0.984)	259953	50.0000	59.612
75	1,3-Dichlorobenzene	146	13.397	13.397	(0.995)	144616	50.0000	54.586
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	82635	50.0000	
77	1,4-Dichlorobenzene	146	13.507	13.507	(1.003)	145067	50.0000	54.720
78	N-Butyl Benzene	91	13.718	13.718	(1.019)	288797	50.0000	61.329
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.034)	74994	50.0000	49.894
80	1,2-Dichlorobenzene	146	13.949	13.949	(1.036)	130765	50.0000	51.935
81	1,2-Dibromo 3-Chloropropane	75	14.854	14.854	(1.103)	13446	50.0000	48.354
82	1,2,4-Trichlorobenzene	180	15.899	15.899	(1.181)	86154	50.0000	56.228
83	Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	53027	50.0000	51.385
84	Naphthalene	128	16.231	16.231	(1.205)	146604	50.0000	52.752
85	1,2,3-Trichlorobenzene	180	16.522	16.522	(1.227)	74594	50.0000	50.922

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0500806A.d
Lab Smp Id: CC0806
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-

Calibration Date: 06-AUG-2010
Calibration Time: 09:32
Client Smp ID: VSTD050
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	116497	-11.15
34 1,4-Difluorobenze	191559	95780	383118	171296	-10.58
52 d5-Chlorobenzene	161199	80600	322398	143854	-10.76
76 d4-1,4-Dichlorobe	88279	44140	176558	82635	-6.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 06-AUG-2010 10:17
Lab File ID: 0500806A.d Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Analysis Type: SOIL Init. Cal. Times: 17:18 20:28
Lab Sample ID: CC0806 Quant Type: ISTD
Method: /chem1/finn5.i/06AUG10.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.64835	0.63239	0.010	-2.46214	20.00000	Averaged	
2 Chloromethane	1.74440	1.52267	0.100	-12.71110	20.00000	Averaged	
3 Vinyl Chloride	1.37944	1.39034	0.010	0.79034	20.00000	Averaged	
4 Bromomethane	0.74914	1.01714	0.010	35.77435	20.00000	Averaged	<-
5 Chloroethane	0.90084	0.90948	0.010	0.95877	20.00000	Averaged	
6 Trichlorofluoromethane	1.33321	1.35263	0.010	1.45656	20.00000	Averaged	
7 Acrolein	0.16631	0.18405	0.010	10.66735	20.00000	Averaged	
8 112Trichloro122Trifluoroeth	1.04376	1.08801	0.010	4.23948	20.00000	Averaged	
9 Acetone	0.27982	0.30368	0.010	8.52716	20.00000	Averaged	
10 1,1-Dichloroethene	0.94715	0.97891	0.010	3.35373	20.00000	Averaged	
11 Bromoethane	0.70140	0.74824	0.010	6.67752	20.00000	Averaged	
12 Iodomethane	1.11986	1.38161	0.010	23.37349	20.00000	Averaged	<-
13 Methylene Chloride	1.06648	0.96936	0.010	-9.10651	20.00000	Averaged	
14 Acrylonitrile	0.24705	0.31399	0.010	27.09511	20.00000	Averaged	<-
16 Methyl tert-Butyl Ether	1.45653	1.38584	0.010	-4.85286	20.00000	Averaged	
15 Carbon Disulfide	2.93755	3.30343	0.010	12.45521	20.00000	Averaged	
17 Trans-1,2-Dichloroethene	0.80717	0.84603	0.010	4.81358	20.00000	Averaged	
18 Vinyl Acetate	1.41371	1.68321	0.010	19.06334	20.00000	Averaged	
19 1,1-Dichloroethane	1.48492	1.55844	0.100	4.95095	20.00000	Averaged	
20 2-Butanone	0.31485	0.37414	0.010	18.82988	20.00000	Averaged	
21 2,2-Dichloropropane	0.90863	0.82693	0.010	-8.99197	20.00000	Averaged	
22 Cis-1,2-Dichloroethene	0.71142	0.74998	0.010	5.42028	20.00000	Averaged	
24 Chloroform	1.20617	1.21406	0.010	0.65399	20.00000	Averaged	
26 Bromochloromethane	0.33777	0.35750	0.010	5.84206	20.00000	Averaged	
$ 25 Dibromofluoromethane	0.59593	0.58221	0.010	-2.30208	20.00000	Averaged	
27 1,1,1-Trichloroethane	0.93813	0.86234	0.010	-8.07923	20.00000	Averaged	
29 1,1-Dichloropropene	0.67899	0.68723	0.010	1.21469	20.00000	Averaged	
30 Carbon Tetrachloride	0.59044	0.54405	0.010	-7.85678	20.00000	Averaged	
$ 31 d4-1,2-Dichloroethane	0.65208	0.62332	0.010	-4.41050	20.00000	Averaged	
32 1,2-Dichloroethane	0.59607	0.59397	0.010	-0.35181	20.00000	Averaged	
33 Benzene	1.64186	1.72067	0.010	4.79978	20.00000	Averaged	
35 Trichloroethene	0.48104	0.47386	0.010	-1.49417	20.00000	Averaged	
36 1,2-Dichloropropane	0.51756	0.50509	0.010	-2.40877	20.00000	Averaged	
37 Bromodichloromethane	0.55335	0.53755	0.010	-2.85613	20.00000	Averaged	
39 Dibromomethane	0.25692	0.26420	0.010	2.83232	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i
Lab File ID: 0500806A.d
Analysis Type: SOIL
Lab Sample ID: CC0806
Method: /chem1/finn5.i/06AUG10.b/s8260b.m

Injection Date: 06-AUG-2010 10:17
Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Init. Cal. Times: 17:18 20:28
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 2-Chloroethyl Vinyl Ether	0.18125	0.21329	0.001	17.67319	20.00000	Averaged
41 4-Methyl-2-Pentanone	0.13218	0.14321	0.010	8.34528	20.00000	Averaged
42 Cis 1,3-dichloropropene	0.60415	0.63471	0.010	5.05921	20.00000	Averaged
$ 43 d8-Toluene	1.09864	1.16154	0.010	5.72503	20.00000	Averaged
44 Toluene	0.97414	0.94870	0.010	-2.61166	20.00000	Averaged
45 Trans 1,3-Dichloropropene	0.50782	0.50922	0.010	0.27635	20.00000	Averaged
46 2-Hexanone	0.40872	0.41105	0.010	0.56906	20.00000	Averaged
47 1,1,2-Trichloroethane	0.30327	0.30955	0.010	2.07260	20.00000	Averaged
48 1,3-Dichloropropane	0.70372	0.71760	0.010	1.97213	20.00000	Averaged
49 Tetrachloroethene	0.55550	0.51002	0.010	-8.18836	20.00000	Averaged
50 Chlorodibromomethane	0.47341	0.45561	0.010	-3.75949	20.00000	Averaged
51 1,2-Dibromoethane	0.32484	0.33298	0.010	2.50533	20.00000	Averaged
53 Chlorobenzene	1.17275	1.14498	0.300	-2.36732	20.00000	Averaged
54 Ethyl Benzene	1.98319	2.08207	0.010	4.98589	20.00000	Averaged
55 1,1,1,2-Tetrachloroethane	0.44884	0.38366	0.010	-14.52178	20.00000	Averaged
56 m,p-xylene	0.72486	0.81210	0.010	12.03597	20.00000	Averaged
57 o-Xylene	0.75335	0.76983	0.010	2.18767	20.00000	Averaged
58 Styrene	1.16482	1.29915	0.010	11.53172	20.00000	Averaged
59 Isopropyl Benzene	3.36576	3.54190	0.010	5.23354	20.00000	Averaged
60 Bromoform	0.54116	0.50369	0.100	-6.92346	20.00000	Averaged
61 1,1,2,2-Tetrachloroethane	0.97237	0.92723	0.300	-4.64238	20.00000	Averaged
$ 62 4-Bromofluorobenzene	0.58517	0.59262	0.010	1.27309	20.00000	Averaged
63 1,2,3-Trichloropropane	0.19264	0.18704	0.010	-2.90594	20.00000	Averaged
65 Trans-1,4-Dichloro 2-Butene	0.29886	0.34882	0.010	16.71784	20.00000	Averaged
66 N-Propyl Benzene	4.34491	4.46120	0.010	2.67635	20.00000	Averaged
67 Bromobenzene	0.93828	0.88754	0.010	-5.40723	20.00000	Averaged
68 1,3,5-Trimethyl Benzene	2.73214	3.05062	0.010	11.65684	20.00000	Averaged
69 2-Chloro Toluene	2.85492	2.86354	0.010	0.30186	20.00000	Averaged
70 4-Chloro Toluene	2.73658	2.97748	0.010	8.80273	20.00000	Averaged
71 T-Butyl Benzene	2.33736	2.59957	0.010	11.21812	20.00000	Averaged
72 1,2,4-Trimethylbenzene	2.68961	3.06252	0.010	13.86479	20.00000	Averaged
73 S-Butyl Benzene	3.84536	4.13209	0.010	7.45656	20.00000	Averaged
74 4-Isopropyl Toluene	2.63853	3.14578	0.010	19.22461	20.00000	Averaged
75 1,3-Dichlorobenzene	1.60301	1.75005	0.010	9.17276	20.00000	Averaged
77 1,4-Dichlorobenzene	1.60408	1.75551	0.010	9.44021	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 06-AUG-2010 10:17
Lab File ID: 0500806A.d Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Analysis Type: SOIL Init. Cal. Times: 17:18 20:28
Lab Sample ID: CC0806 Quant Type: ISTD
Method: /chem1/finn5.i/06AUG10.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
78 N-Butyl Benzene	2.84923	3.49482	0.010	22.65857	20.00000	Averaged	<- ok
$ 79 d4-1,2-Dichlorobenzene	0.90947	0.90753	0.010	-0.21274	20.00000	Averaged	
80 1,2-Dichlorobenzene	1.52349	1.58244	0.010	3.86925	20.00000	Averaged	
81 1,2-Dibromo 3-Chloropropane	0.16826	0.16272	0.010	-3.29203	20.00000	Averaged	
82 1,2,4-Trichlorobenzene	0.92710	1.04259	0.010	12.45669	20.00000	Averaged	
83 Hexachloro 1,3-Butadiene	0.62441	0.64171	0.010	2.76961	20.00000	Averaged	
84 Naphthalene	1.68157	1.77410	0.010	5.50309	20.00000	Averaged	
85 1,2,3-Trichlorobenzene	0.88636	0.90269	0.010	1.84300	20.00000	Averaged	

Data File: /chem1/finn5.i/06AUG10.b/0500806A.d

Date : 06-AUG-2010 10:17

Client ID: VSTD050

Sample Info: CC0806,5,5,0

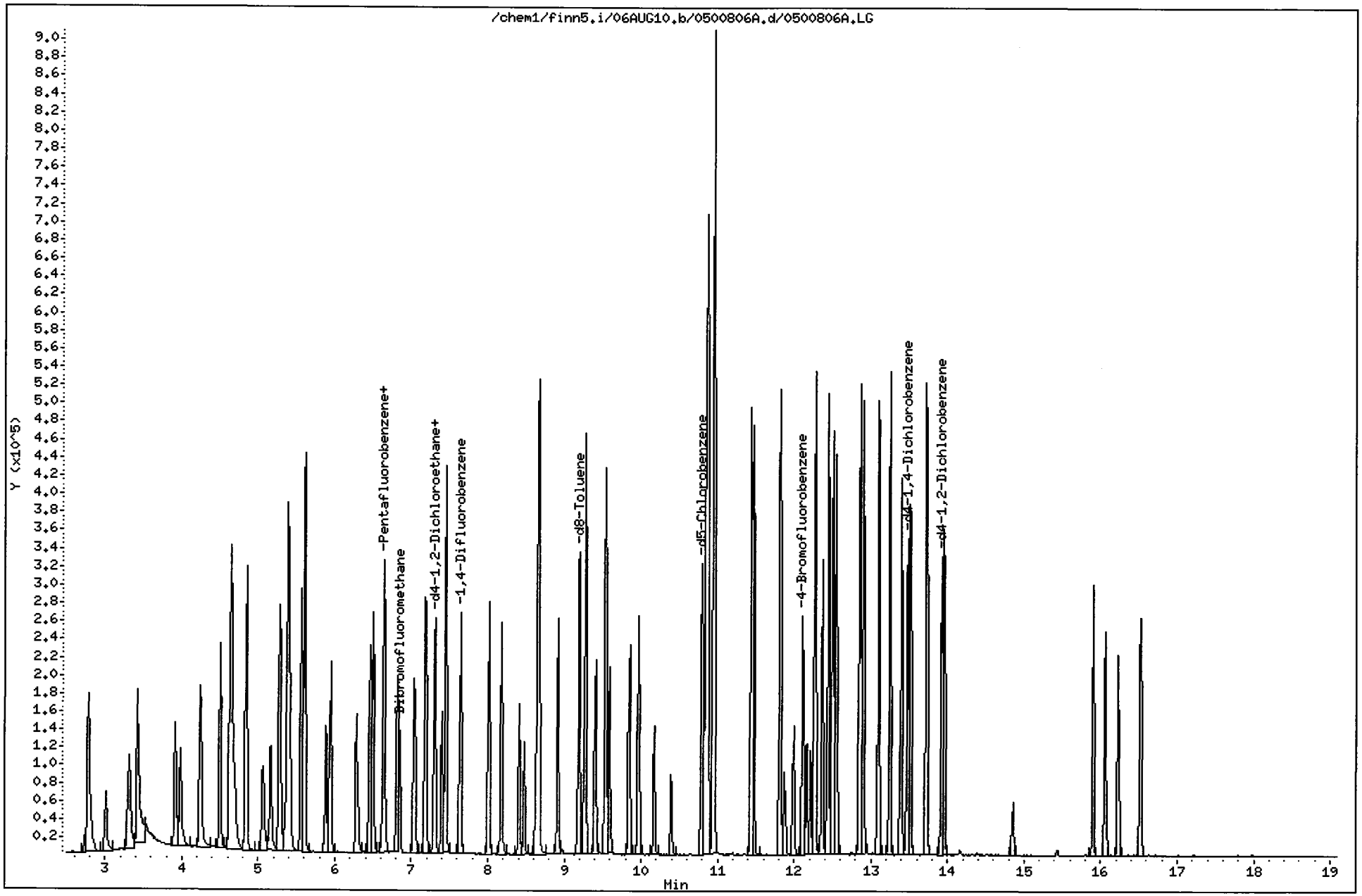
Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18

RGT8:96423



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/LCS0806.d
Lab Smp Id: LCS0806 Client Smp ID: LCS0806
Inj Date : 06-AUG-2010 10:59
Operator : PB Inst ID: finn5.i
Smp Info : LCS0806,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	2.995	3.005	(0.453)	68145	42.7088	42.709
2 Chloromethane	50	3.296	3.306	(0.498)	172296	40.1348	40.135
3 Vinyl Chloride	62	3.407	3.427	(0.515)	151576	44.6498	44.650
4 Bromomethane	94	3.899	3.909	(0.590)	113721	61.6837	61.684
5 Chloroethane	64	3.970	3.980	(0.600)	100087	45.1461	45.146
6 Trichlorofluoromethane	101	4.231	4.241	(0.640)	149753	45.6424	45.642
7 Acrolein	56	4.613	4.633	(0.698)	100372	245.243	245.24
8 112Trichloro122Trifluoroethane	101	4.633	4.643	(0.701)	116628	45.4041	45.404
9 Acetone	43	4.663	4.683	(0.705)	165091	239.742	239.74
10 1,1-Dichloroethene	96	4.824	4.844	(0.729)	106876	45.8516	45.852
11 Bromoethane	108	5.045	5.065	(0.763)	82241	47.6444	47.644
12 Iodomethane	142	5.146	5.156	(0.778)	155446	56.4039	56.404
13 Methylene Chloride	84	5.266	5.276	(0.796)	108083	41.1809	41.181
14 Acrylonitrile	53	5.347	5.357	(0.808)	34149	56.1672	56.167(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.387	5.397	(0.815)	155173	43.2902	43.290(Q)
	15 Carbon Disulfide	76	5.367	5.377	(0.812)	365473	50.5548	50.555
	17 Trans-1,2-Dichloroethene	96	5.548	5.558	(0.839)	93393	47.0153	47.015
	18 Vinyl Acetate	43	5.869	5.879	(0.888)	183144	52.6409	52.641
	19 1,1-Dichloroethane	63	5.929	5.940	(0.897)	172769	47.2774	47.277
	20 2-Butanone	43	6.271	6.281	(0.948)	201253	259.735	259.73
	21 2,2-Dichloropropane	77	6.452	6.462	(0.976)	91382	40.8662	40.866
	22 Cis-1,2-Dichloroethene	96	6.482	6.502	(0.980)	83452	47.6654	47.665
*	23 Pentafluorobenzene	168	6.613	6.633	(1.000)	123049	50.0000	
	24 Chloroform	83	6.633	6.643	(1.003)	133818	45.0815	45.082
	26 Bromochloromethane	128	6.794	6.814	(1.027)	39238	47.2042	47.204
$	25 Dibromofluoromethane	111	6.834	6.844	(1.033)	65932	44.9567	44.957(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.035	(1.062)	94723	41.0283	41.028
	29 1,1-Dichloropropene	75	7.166	7.176	(0.939)	108997	46.5483	46.548
	30 Carbon Tetrachloride	117	7.286	7.296	(0.955)	87937	43.1864	43.186
$	31 d4-1,2-Dichloroethane	65	7.296	7.306	(1.103)	69286	43.1756	43.176
	32 1,2-Dichloroethane	62	7.387	7.397	(0.968)	96572	46.9793	46.979
	33 Benzene	78	7.437	7.447	(0.975)	278672	49.2160	49.216
*	34 1,4-Difluorobenzene	114	7.628	7.638	(1.000)	172433	50.0000	
	35 Trichloroethene	95	8.000	8.010	(1.049)	75701	45.6318	45.632
	36 1,2-Dichloropropane	63	8.161	8.171	(1.070)	81387	45.5978	45.598
	37 Bromodichloromethane	83	8.392	8.412	(1.100)	88713	46.4872	46.487
	39 Dibromomethane	93	8.462	8.482	(1.109)	42810	48.3169	48.317
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.623	(1.129)	33748	53.9899	53.990(Q)
	41 4-Methyl-2-Pentanone	58	8.643	8.663	(1.133)	113757	249.562	249.56
	42 Cis 1,3-dichloropropene	75	8.894	8.914	(1.166)	103260	49.5607	49.561
$	43 d8-Toluene	98	9.176	9.186	(1.203)	194004	51.2042	51.204
	44 Toluene	92	9.256	9.276	(1.213)	153735	45.7615	45.762
	45 Trans 1,3-Dichloropropene	75	9.387	9.407	(1.231)	83088	47.4437	47.444
	46 2-Hexanone	43	9.527	9.537	(0.884)	274024	242.765	242.76
	47 1,1,2-Trichloroethane	97	9.568	9.588	(1.254)	51482	49.2242	49.224
	48 1,3-Dichloropropane	76	9.829	9.849	(0.912)	97351	50.0915	50.092
	49 Tetrachloroethene	166	9.949	9.960	(0.924)	68649	44.7481	44.748
	50 Chlorodibromomethane	129	10.161	10.171	(0.943)	62780	48.0188	48.019
	51 1,2-Dibromoethane	107	10.382	10.392	(1.361)	53312	47.5891	47.589
*	52 d5-Chlorobenzene	117	10.774	10.794	(1.000)	138084	50.0000	
	53 Chlorobenzene	112	10.824	10.834	(1.005)	153552	47.4109	47.411
	54 Ethyl Benzene	91	10.854	10.864	(1.007)	279462	51.0251	51.025
	55 1,1,1,2-Tetrachloroethane	131	10.844	10.864	(1.007)	52456	42.3185	42.318
	56 m,p-xylene	106	10.934	10.944	(1.015)	215905	107.854	107.85
	57 o-Xylene	106	11.417	11.437	(1.060)	105929	50.9148	50.915
	58 Styrene	104	11.447	11.467	(1.062)	173735	54.0075	54.007
	59 Isopropyl Benzene	105	11.799	11.819	(0.877)	274323	52.7501	52.750
	60 Bromoform	173	11.859	11.879	(0.881)	39646	47.4156	47.416
	61 1,1,2,2-Tetrachloroethane	83	11.980	11.990	(0.890)	71798	47.7884	47.788
$	62 4-Bromofluorobenzene	95	12.100	12.110	(1.123)	78139	48.3519	48.352
	63 1,2,3-Trichloropropane	110	12.150	12.160	(0.903)	14760	49.5896	49.590

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.201	12.211	(0.907)	26114	56.5522	56.552
	66 N-Propyl Benzene	91	12.251	12.271	(0.910)	341436	50.8595	50.859
	67 Bromobenzene	156	12.341	12.361	(0.917)	69291	47.7956	47.796
	68 1,3,5-Trimethyl Benzene	105	12.432	12.442	(0.924)	229493	54.3638	54.364
	69 2-Chloro Toluene	91	12.482	12.502	(0.928)	229441	52.0140	52.014
	70 4-Chloro Toluene	91	12.532	12.542	(0.931)	219340	51.8743	51.874
	71 T-Butyl Benzene	119	12.834	12.854	(0.954)	203226	56.2725	56.272
	72 1,2,4-Trimethylbenzene	105	12.884	12.904	(0.957)	231504	55.7073	55.707
	73 S-Butyl Benzene	105	13.085	13.095	(0.972)	314191	52.8811	52.881
	74 4-Isopropyl Toluene	119	13.226	13.246	(0.983)	234337	57.4806	57.481
	75 1,3-Dichlorobenzene	146	13.377	13.397	(0.994)	132997	53.6968	53.697
*	76 d4-1,4-Dichlorobenzene	152	13.457	13.467	(1.000)	77255	50.0000	
	77 1,4-Dichlorobenzene	146	13.497	13.507	(1.003)	132152	53.3200	53.320
	78 N-Butyl Benzene	91	13.708	13.718	(1.019)	260007	59.0611	59.061
$	79 d4-1,2-Dichlorobenzene	152	13.899	13.919	(1.033)	68839	48.9882	48.988
	80 1,2-Dichlorobenzene	146	13.939	13.949	(1.036)	121374	51.5619	51.562
	81 1,2-Dibromo 3-Chloropropane	75	14.844	14.854	(1.103)	12668	48.7280	48.728
	82 1,2,4-Trichlorobenzene	180	15.889	15.899	(1.181)	75877	52.9696	52.970
	83 Hexachloro 1,3-Butadiene	225	16.040	16.050	(1.192)	48118	49.8746	49.875
	84 Naphthalene	128	16.211	16.231	(1.205)	135890	52.3018	52.302
	85 1,2,3-Trichlorobenzene	180	16.502	16.522	(1.226)	67674	49.4147	49.415

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: LCS0806.d
Lab Smp Id: LCS0806
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: LCS0806
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	123049	-6.15
34 1,4-Difluorobenze	191559	95780	383118	172433	-9.98
52 d5-Chlorobenzene	161199	80600	322398	138084	-14.34
76 d4-1,4-Dichlorobe	88279	44140	176558	77255	-12.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.61	-0.30
34 1,4-Difluorobenze	7.64	7.14	8.14	7.63	-0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.77	-0.19
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 06AUG10
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: LCS0806 Client Smp ID: LCS0806
Level: LOW Operator: PB
Data Type: MS DATA SampleType: LCS
SpikeList File: all.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.000	42.709	85.42	53-148
2	Chloromethane	50.000	40.135	80.27	64-125
3	Vinyl Chloride	50.000	44.650	89.30	63-137
4	Bromomethane	50.000	61.684	123.37	57-136
5	Chloroethane	50.000	45.146	90.29	64-131
6	Trichlorofluoromet	50.000	45.642	91.28	69-132
7	Acrolein	250.00	245.24	98.10	54-137
8	112Trichloro122Tri	50.000	45.404	90.81	74-130
9	Acetone	250.00	239.74	95.90	60-131
10	1,1-Dichloroethene	50.000	45.852	91.70	75-126
11	Bromoethane	50.000	47.644	95.29	76-126
12	Iodomethane	50.000	56.404	112.81	65-139
13	Methylene Chloride	50.000	41.181	82.36	70-123
15	Carbon Disulfide	50.000	50.555	101.11	71-129
14	Acrylonitrile	50.000	56.167	112.33	67-125
16	Methyl tert-Butyl	50.000	43.290	86.58	70-120
17	Trans-1,2-Dichloro	50.000	47.015	94.03	80-120
18	Vinyl Acetate	50.000	52.641	105.28	60-136
19	1,1-Dichloroethane	50.000	47.277	94.55	80-120
20	2-Butanone	250.00	259.73	103.89	70-120
21	2,2-Dichloropropan	50.000	40.866	81.73	74-123
22	Cis-1,2-Dichloroet	50.000	47.665	95.33	80-120
24	Chloroform	50.000	45.082	90.16	80-120
26	Bromochloromethane	50.000	47.204	94.41	80-120
27	1,1,1-Trichloroeth	50.000	41.028	82.06	77-121
29	1,1-Dichloropropen	50.000	46.548	93.10	80-120
30	Carbon Tetrachlori	50.000	43.186	86.37	77-122
32	1,2-Dichloroethane	50.000	46.979	93.96	76-120
33	Benzene	50.000	49.216	98.43	80-120
35	Trichloroethene	50.000	45.632	91.26	80-120
36	1,2-Dichloropropan	50.000	45.598	91.20	80-120
37	Bromodichlorometha	50.000	46.487	92.97	77-121
39	Dibromomethane	50.000	48.317	96.63	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	50.000	53.990	107.98	10-191
41 4-Methyl-2-Pentano	250.00	249.56	99.82	67-120
42 Cis 1,3-dichloropr	50.000	49.561	99.12	74-120
44 Toluene	50.000	45.762	91.52	80-120
45 Trans 1,3-Dichloro	50.000	47.444	94.89	65-120
46 2-Hexanone	250.00	242.76	97.11	65-130
47 1,1,2-Trichloroeth	50.000	49.224	98.45	80-120
48 1,3-Dichloropropan	50.000	50.092	100.18	80-120
49 Tetrachloroethene	50.000	44.748	89.50	80-121
50 Chlorodibromometha	50.000	48.019	96.04	64-120
51 1,2-Dibromoethane	50.000	47.589	95.18	75-120
53 Chlorobenzene	50.000	47.411	94.82	80-120
55 1,1,1,2-Tetrachlor	50.000	42.318	84.64	69-121
54 Ethyl Benzene	50.000	51.025	102.05	80-127
56 m,p-xylene	100.00	107.85	107.85	80-125
57 o-Xylene	50.000	50.915	101.83	78-120
58 Styrene	50.000	54.007	108.01	80-123
59 Isopropyl Benzene	50.000	52.750	105.50	80-127
60 Bromoform	50.000	47.416	94.83	60-120
61 1,1,2,2-Tetrachlor	50.000	47.788	95.58	74-120
63 1,2,3-Trichloropro	50.000	49.590	99.18	72-121
65 Trans-1,4-Dichloro	50.000	56.552	113.10	65-126
66 N-Propyl Benzene	50.000	50.859	101.72	80-132
67 Bromobenzene	50.000	47.796	95.59	80-120
68 1,3,5-Trimethyl Be	50.000	54.364	108.73	80-125
69 2-Chloro Toluene	50.000	52.014	104.03	80-125
70 4-Chloro Toluene	50.000	51.874	103.75	80-127
71 T-Butyl Benzene	50.000	56.272	112.55	87-122
72 1,2,4-Trimethylben	50.000	55.707	111.41	80-126
73 S-Butyl Benzene	50.000	52.881	105.76	80-134
74 4-Isopropyl Toluen	50.000	57.481	114.96	80-131
75 1,3-Dichlorobenzen	50.000	53.697	107.39	80-120
77 1,4-Dichlorobenzen	50.000	53.320	106.64	80-120
78 N-Butyl Benzene	50.000	59.061	118.12	80-138
80 1,2-Dichlorobenzen	50.000	51.562	103.12	80-120
81 1,2-Dibromo 3-Chlo	50.000	48.728	97.46	59-120
82 1,2,4-Trichloroben	50.000	52.970	105.94	78-130
83 Hexachloro 1,3-But	50.000	49.875	99.75	76-129
84 Naphthalene	50.000	52.302	104.60	66-120
85 1,2,3-Trichloroben	50.000	49.415	98.83	73-123

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	44.957	89.91	30-160

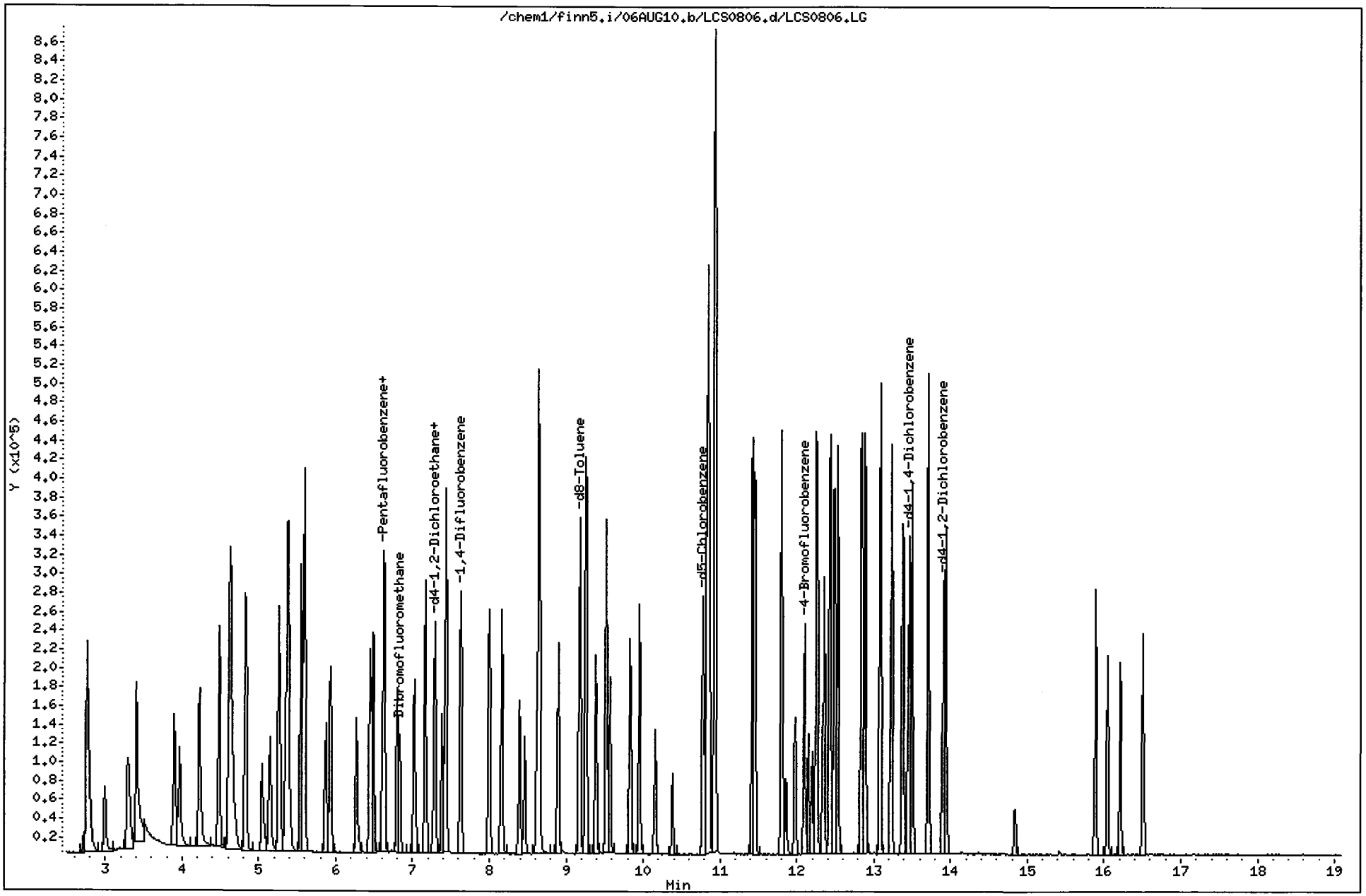
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	43.176	86.35	75-152
$ 43 d8-Toluene	50.000	51.204	102.41	82-115
$ 62 4-Bromofluorobenze	50.000	48.352	96.70	64-120
$ 79 d4-1,2-Dichloroben	50.000	48.988	97.98	80-120

Data File: /chem1/finn5.i/06AUG10.b/LCS0806.d
Date : 06-AUG-2010 10:59
Client ID: LCS0806
Sample Info: LCS0806,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/LCS0806A.d
Lab Smp Id: LCS0806 Client Smp ID: LCS0806
Inj Date : 06-AUG-2010 11:33
Operator : PB Inst ID: finn5.i
Smp Info : LCS0806,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	68591	43.2078	43.208
2 Chloromethane	50	3.306	3.306	(0.499)	178813	41.8655	41.865
3 Vinyl Chloride	62	3.417	3.427	(0.516)	158397	46.8973	46.897
4 Bromomethane	94	3.909	3.909	(0.590)	116462	63.4930	63.493
5 Chloroethane	64	3.970	3.980	(0.599)	103989	47.1456	47.146
6 Trichlorofluoromethane	101	4.231	4.241	(0.639)	158662	48.6046	48.605
7 Acrolein	56	4.623	4.633	(0.698)	107385	263.718	263.72
8 112Trichloro122Trifluoroethane	101	4.633	4.643	(0.700)	122638	47.9875	47.988
9 Acetone	43	4.673	4.683	(0.706)	181477	264.883	264.88
10 1,1-Dichloroethene	96	4.834	4.844	(0.730)	113146	48.7893	48.789
11 Bromoethane	108	5.055	5.065	(0.763)	86466	50.3477	50.348
12 Iodomethane	142	5.156	5.156	(0.778)	159501	58.1708	58.171
13 Methylene Chloride	84	5.266	5.276	(0.795)	115824	44.3556	44.356
14 Acrylonitrile	53	5.357	5.357	(0.809)	37296	61.6564	61.656(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.387	5.397	(0.813)	167137	46.8659	46.866(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	388890	54.0686	54.069
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	99395	50.2922	50.292
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	198332	57.2974	57.297
	19 1,1-Dichloroethane	63	5.929	5.940	(0.895)	183475	50.4634	50.463
	20 2-Butanone	43	6.281	6.281	(0.948)	224829	291.643	291.64
	21 2,2-Dichloropropane	77	6.452	6.462	(0.974)	95467	42.9110	42.911
	22 Cis-1,2-Dichloroethene	96	6.492	6.502	(0.980)	88575	50.8497	50.850
*	23 Pentafluorobenzene	168	6.623	6.633	(1.000)	122424	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	143861	48.7123	48.712
	26 Bromochloromethane	128	6.804	6.814	(1.027)	42905	51.8792	51.879
$	25 Dibromofluoromethane	111	6.834	6.844	(1.032)	72828	49.9124	49.912(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.035	(1.061)	102112	44.4546	44.454
	29 1,1-Dichloropropene	75	7.176	7.176	(0.941)	118452	49.0752	49.075
	30 Carbon Tetrachloride	117	7.286	7.296	(0.955)	94339	44.9466	44.947
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	81388	50.9759	50.976
	32 1,2-Dichloroethane	62	7.387	7.397	(0.968)	105105	49.6032	49.603
	33 Benzene	78	7.437	7.447	(0.975)	299317	51.2831	51.283
*	34 1,4-Difluorobenzene	114	7.628	7.638	(1.000)	177742	50.0000	
	35 Trichloroethene	95	8.000	8.010	(1.049)	82371	48.1693	48.169
	36 1,2-Dichloropropane	63	8.171	8.171	(1.071)	88251	47.9665	47.966
	37 Bromodichloromethane	83	8.402	8.412	(1.101)	95989	48.7975	48.798
	39 Dibromomethane	93	8.472	8.482	(1.111)	46390	50.7936	50.794
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.623	(1.129)	37452	58.1260	58.126
	41 4-Methyl-2-Pentanone	58	8.653	8.663	(1.134)	127342	271.020	271.02
	42 Cis 1,3-dichloropropene	75	8.904	8.914	(1.167)	110204	51.3136	51.314
$	43 d8-Toluene	98	9.186	9.186	(1.204)	201480	51.5890	51.589
	44 Toluene	92	9.266	9.276	(1.215)	164779	47.5839	47.584
	45 Trans 1,3-Dichloropropene	75	9.397	9.407	(1.232)	90656	50.2189	50.219
	46 2-Hexanone	43	9.527	9.537	(0.884)	310172	256.985	256.98
	47 1,1,2-Trichloroethane	97	9.578	9.588	(1.256)	56284	52.2082	52.208
	48 1,3-Dichloropropane	76	9.839	9.849	(0.912)	106433	51.2162	51.216
	49 Tetrachloroethene	166	9.949	9.960	(0.923)	73833	45.0089	45.009
	50 Chlorodibromomethane	129	10.161	10.171	(0.942)	68932	49.3080	49.308
	51 1,2-Dibromoethane	107	10.382	10.392	(1.361)	58567	50.7184	50.718
*	52 d5-Chlorobenzene	117	10.784	10.794	(1.000)	147651	50.0000	
	53 Chlorobenzene	112	10.824	10.834	(1.004)	165813	47.8793	47.879
	54 Ethyl Benzene	91	10.854	10.864	(1.007)	300783	51.3596	51.360
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.864	(1.007)	57549	43.4190	43.419
	56 m,p-xylene	106	10.934	10.944	(1.014)	234476	109.542	109.54
	57 o-Xylene	106	11.427	11.437	(1.060)	113904	51.2006	51.201
	58 Styrene	104	11.457	11.467	(1.062)	188009	54.6578	54.658
	59 Isopropyl Benzene	105	11.809	11.819	(0.877)	298825	54.1544	54.154
	60 Bromoform	173	11.869	11.879	(0.881)	43478	49.0057	49.006
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	78799	49.4295	49.429
$	62 4-Bromofluorobenzene	95	12.100	12.110	(1.122)	85724	49.6084	49.608
	63 1,2,3-Trichloropropane	110	12.150	12.160	(0.902)	16183	51.2412	51.241

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.201	12.211	(0.906)	28502	58.1711	58.171
	66 N-Propyl Benzene	91	12.261	12.271	(0.910)	366400	51.4368	51.437
	67 Bromobenzene	156	12.351	12.361	(0.917)	74199	48.2353	48.235
	68 1,3,5-Trimethyl Benzene	105	12.432	12.442	(0.923)	247237	55.1963	55.196
	69 2-Chloro Toluene	91	12.492	12.502	(0.928)	232998	49.7803	49.780
	70 4-Chloro Toluene	91	12.532	12.542	(0.931)	242006	53.9407	53.941
	71 T-Butyl Benzene	119	12.844	12.854	(0.954)	214541	55.9865	55.986
	72 1,2,4-Trimethylbenzene	105	12.894	12.904	(0.957)	245039	55.5705	55.570
	73 S-Butyl Benzene	105	13.085	13.095	(0.972)	336347	53.3519	53.352
	74 4-Isopropyl Toluene	119	13.236	13.246	(0.983)	248962	57.5532	57.553
	75 1,3-Dichlorobenzene	146	13.387	13.397	(0.994)	141373	53.7934	53.793
*	76 d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	81973	50.0000	
	77 1,4-Dichlorobenzene	146	13.497	13.507	(1.002)	137403	52.2479	52.248
	78 N-Butyl Benzene	91	13.708	13.718	(1.018)	268015	57.3761	57.376
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.919	(1.033)	75209	50.4409	50.441
	80 1,2-Dichlorobenzene	146	13.939	13.949	(1.035)	128905	51.6094	51.609
	81 1,2-Dibromo 3-Chloropropane	75	14.844	14.854	(1.102)	13644	49.4616	49.462
	82 1,2,4-Trichlorobenzene	180	15.889	15.899	(1.180)	76734	50.4848	50.485
	83 Hexachloro 1,3-Butadiene	225	16.040	16.050	(1.191)	49311	48.1695	48.169
	84 Naphthalene	128	16.221	16.231	(1.204)	143301	51.9798	51.980
	85 1,2,3-Trichlorobenzene	180	16.502	16.522	(1.225)	69574	47.8781	47.878

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: LCS0806A.d
Lab Smp Id: LCS0806
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: LCS0806
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	122424	-6.63
34 1,4-Difluorobenze	191559	95780	383118	177742	-7.21
52 d5-Chlorobenzene	161199	80600	322398	147651	-8.40
76 d4-1,4-Dichlorobe	88279	44140	176558	81973	-7.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.62	-0.15
34 1,4-Difluorobenze	7.64	7.14	8.14	7.63	-0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.78	-0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 06AUG10
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: LCS0806 Client Smp ID: LCS0806
Level: LOW Operator: PB
Data Type: MS DATA SampleType: LCSD
SpikeList File: all.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.000	43.208	86.42	53-148
2	Chloromethane	50.000	41.865	83.73	64-125
3	Vinyl Chloride	50.000	46.897	93.79	63-137
4	Bromomethane	50.000	63.493	126.99	57-136
5	Chloroethane	50.000	47.146	94.29	64-131
6	Trichlorofluoromet	50.000	48.605	97.21	69-132
7	Acrolein	250.00	263.72	105.49	54-137
8	112Trichloro122Tri	50.000	47.988	95.98	74-130
9	Acetone	250.00	264.88	105.95	60-131
10	1,1-Dichloroethene	50.000	48.789	97.58	75-126
11	Bromoethane	50.000	50.348	100.70	76-126
12	Iodomethane	50.000	58.171	116.34	65-139
13	Methylene Chloride	50.000	44.356	88.71	70-123
15	Carbon Disulfide	50.000	54.069	108.14	71-129
14	Acrylonitrile	50.000	61.656	123.31	67-125
16	Methyl tert-Butyl	50.000	46.866	93.73	70-120
17	Trans-1,2-Dichloro	50.000	50.292	100.58	80-120
18	Vinyl Acetate	50.000	57.297	114.59	60-136
19	1,1-Dichloroethane	50.000	50.463	100.93	80-120
20	2-Butanone	250.00	291.64	116.66	70-120
21	2,2-Dichloropropan	50.000	42.911	85.82	74-123
22	Cis-1,2-Dichloroet	50.000	50.850	101.70	80-120
24	Chloroform	50.000	48.712	97.42	80-120
26	Bromochloromethane	50.000	51.879	103.76	80-120
27	1,1,1-Trichloroeth	50.000	44.454	88.91	77-121
29	1,1-Dichloropropen	50.000	49.075	98.15	80-120
30	Carbon Tetrachlori	50.000	44.947	89.89	77-122
32	1,2-Dichloroethane	50.000	49.603	99.21	76-120
33	Benzene	50.000	51.283	102.57	80-120
35	Trichloroethene	50.000	48.169	96.34	80-120
36	1,2-Dichloropropan	50.000	47.966	95.93	80-120
37	Bromodichlorometha	50.000	48.798	97.60	77-121
39	Dibromomethane	50.000	50.794	101.59	80-120

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40	2-Chloroethyl Viny	50.000	58.126	116.25	10-191
41	4-Methyl-2-Pentano	250.00	271.02	108.41	67-120
42	Cis 1,3-dichloropr	50.000	51.314	102.63	74-120
44	Toluene	50.000	47.584	95.17	80-120
45	Trans 1,3-Dichloro	50.000	50.219	100.44	65-120
46	2-Hexanone	250.00	256.98	102.79	65-130
47	1,1,2-Trichloroeth	50.000	52.208	104.42	80-120
48	1,3-Dichloropropan	50.000	51.216	102.43	80-120
49	Tetrachloroethene	50.000	45.009	90.02	80-121
50	Chlorodibromometha	50.000	49.308	98.62	64-120
51	1,2-Dibromoethane	50.000	50.718	101.44	75-120
53	Chlorobenzene	50.000	47.879	95.76	80-120
55	1,1,1,2-Tetrachlor	50.000	43.419	86.84	69-121
54	Ethyl Benzene	50.000	51.360	102.72	80-127
56	m,p-xylene	100.00	109.54	109.54	80-125
57	o-Xylene	50.000	51.201	102.40	78-120
58	Styrene	50.000	54.658	109.32	80-123
59	Isopropyl Benzene	50.000	54.154	108.31	80-127
60	Bromoform	50.000	49.006	98.01	60-120
61	1,1,2,2-Tetrachlor	50.000	49.429	98.86	74-120
63	1,2,3-Trichloropro	50.000	51.241	102.48	72-121
65	Trans-1,4-Dichloro	50.000	58.171	116.34	65-126
66	N-Propyl Benzene	50.000	51.437	102.87	80-132
67	Bromobenzene	50.000	48.235	96.47	80-120
68	1,3,5-Trimethyl Be	50.000	55.196	110.39	80-125
69	2-Chloro Toluene	50.000	49.780	99.56	80-125
70	4-Chloro Toluene	50.000	53.941	107.88	80-127
71	T-Butyl Benzene	50.000	55.986	111.97	87-122
72	1,2,4-Trimethylben	50.000	55.570	111.14	80-126
73	S-Butyl Benzene	50.000	53.352	106.70	80-134
74	4-Isopropyl Toluen	50.000	57.553	115.11	80-131
75	1,3-Dichlorobenzen	50.000	53.793	107.59	80-120
77	1,4-Dichlorobenzen	50.000	52.248	104.50	80-120
78	N-Butyl Benzene	50.000	57.376	114.75	80-138
80	1,2-Dichlorobenzen	50.000	51.609	103.22	80-120
81	1,2-Dibromo 3-Chlo	50.000	49.462	98.92	59-120
82	1,2,4-Trichloroben	50.000	50.485	100.97	78-130
83	Hexachloro 1,3-But	50.000	48.169	96.34	76-129
84	Naphthalene	50.000	51.980	103.96	66-120
85	1,2,3-Trichloroben	50.000	47.878	95.76	73-123

SURROGATE	COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25	Dibromofluorometha	50.000	49.912	99.82	30-160

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	50.976	101.95	75-152
$ 43 d8-Toluene	50.000	51.589	103.18	82-115
$ 62 4-Bromofluorobenze	50.000	49.608	99.22	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.441	100.88	80-120

Data File: /chem1/finn5.i/06AUG10.b/LCS0806A.d

Date : 06-AUG-2010 11:33

Client ID: LCS0806

Sample Info: LCS0806,5,5,0

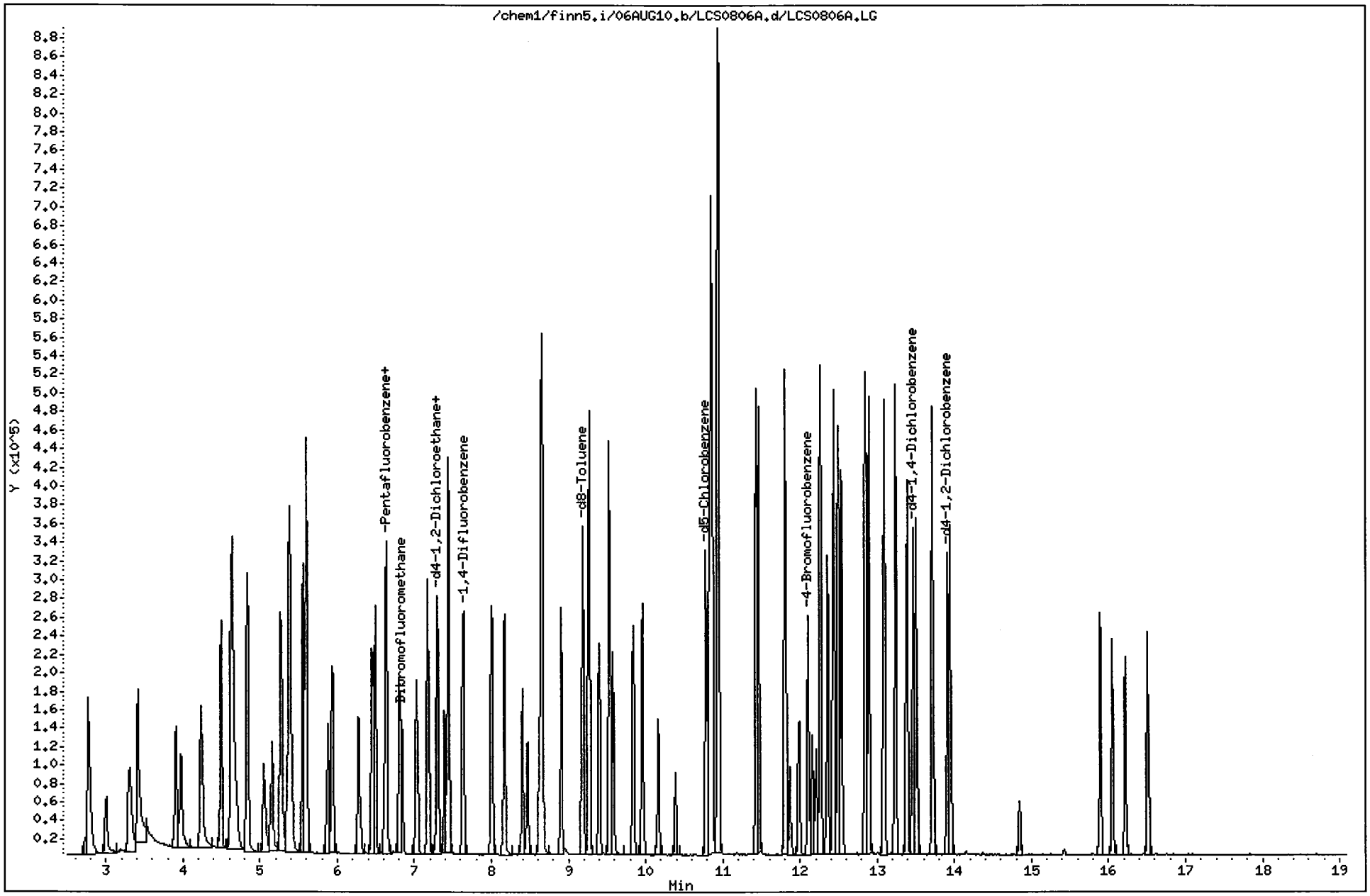
Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18

RG78-00439



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/MB0806.d
Lab Smp Id: MB0806 Client Smp ID: MB0806
Inj Date : 06-AUG-2010 12:00
Operator : PB Inst ID: finn5.i
Smp Info : MB0806,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.683	(0.706)	2100	3.43441	3.434
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	Compound Not Detected.					
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.291	6.281	(0.948)	2122	3.08423	3.084
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.633	(1.000)	109261	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.854	6.844	(1.033)	68394	52.5206	52.520(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.306	(1.103)	79680	55.9185	55.918
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.648	7.638	(1.000)	159957	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	8.663	8.663	(1.133)	1601	3.78624	3.786
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.186	(1.202)	184558	52.5104	52.510
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	140974	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.120	12.110	(1.123)	79448	48.1541	48.154
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.467	(1.000)	69910	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.033)	65207	51.2789	51.279
80	1,2-Dichlorobenzene	146	13.949	13.949	(1.035)	1061	0.49809	0.4981
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: MB0806.d
Lab Smp Id: MB0806
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: MB0806
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	109261	-16.67
34 1,4-Difluorobenze	191559	95780	383118	159957	-16.50
52 d5-Chlorobenzene	161199	80600	322398	140974	-12.55
76 d4-1,4-Dichlorobe	88279	44140	176558	69910	-20.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.63	0.00
34 1,4-Difluorobenze	7.64	7.14	8.14	7.65	0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.79	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.48	0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 06AUG10
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MB0806 Client Smp ID: MB0806
Level: LOW Operator: PB
Data Type: MS DATA SampleType: BLANK
SpikeList File: all.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-

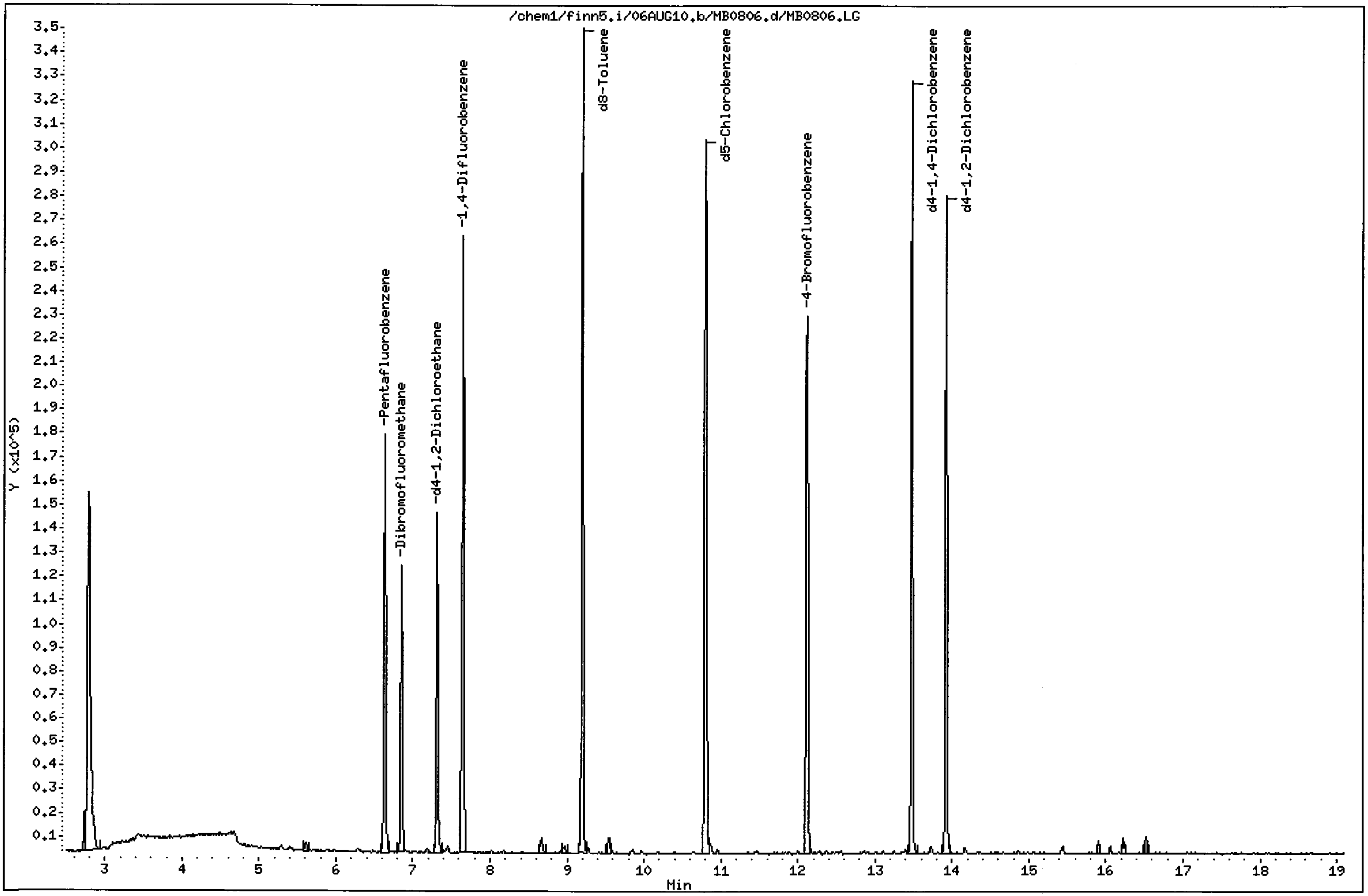
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	52.520	105.04	30-160
$ 31 d4-1,2-Dichloroeth	50.000	55.918	111.84	75-152
$ 43 d8-Toluene	50.000	52.510	105.02	82-115
$ 62 4-Bromofluorobenze	50.000	48.154	96.31	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.279	102.56	80-120

Data File: /chem1/finn5.i/06AUG10.b/MB0806.d
Date : 06-AUG-2010 12:00
Client ID: MB0806
Sample Info: MB0806,5,5,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78A.d
Lab Smp Id: RG78A Client Smp ID: PSB9A-11-13.5-07301
Inj Date : 06-AUG-2010 13:19
Operator : PB Inst ID: finn5.i
Smp Info : RG78A,5,6.60,0
Misc Info : 10-18433
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	6.60000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.693	4.683	(0.708)	17909	27.7136	20.995
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.286	5.276	(0.797)	13818	5.61028	4.250
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.633	(1.000)	115472	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.854	6.844	(1.033)	78187	56.8113	43.039(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.306	(1.103)	92909	61.6953	46.739
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.648	7.638	(1.000)	175492	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.186	(1.202)	199524	51.7432	39.199
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	149839	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.120	12.110	(1.123)	82929	47.2901	35.826
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.467	(1.000)	75834	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.033)	69248	50.2027	38.032
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78A.d
Lab Smp Id: RG78A
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18433

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB9A-11-13.5-07301
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	115472	-11.93
34 1,4-Difluorobenze	191559	95780	383118	175492	-8.39
52 d5-Chlorobenzene	161199	80600	322398	149839	-7.05
76 d4-1,4-Dichlorobe	88279	44140	176558	75834	-14.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.63	0.00
34 1,4-Difluorobenze	7.64	7.14	8.14	7.65	0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.79	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.48	0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78A
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18433

Client SDG: RG78
Fraction: VOA
Client Smp ID: PSB9A-11-13.5-07301
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

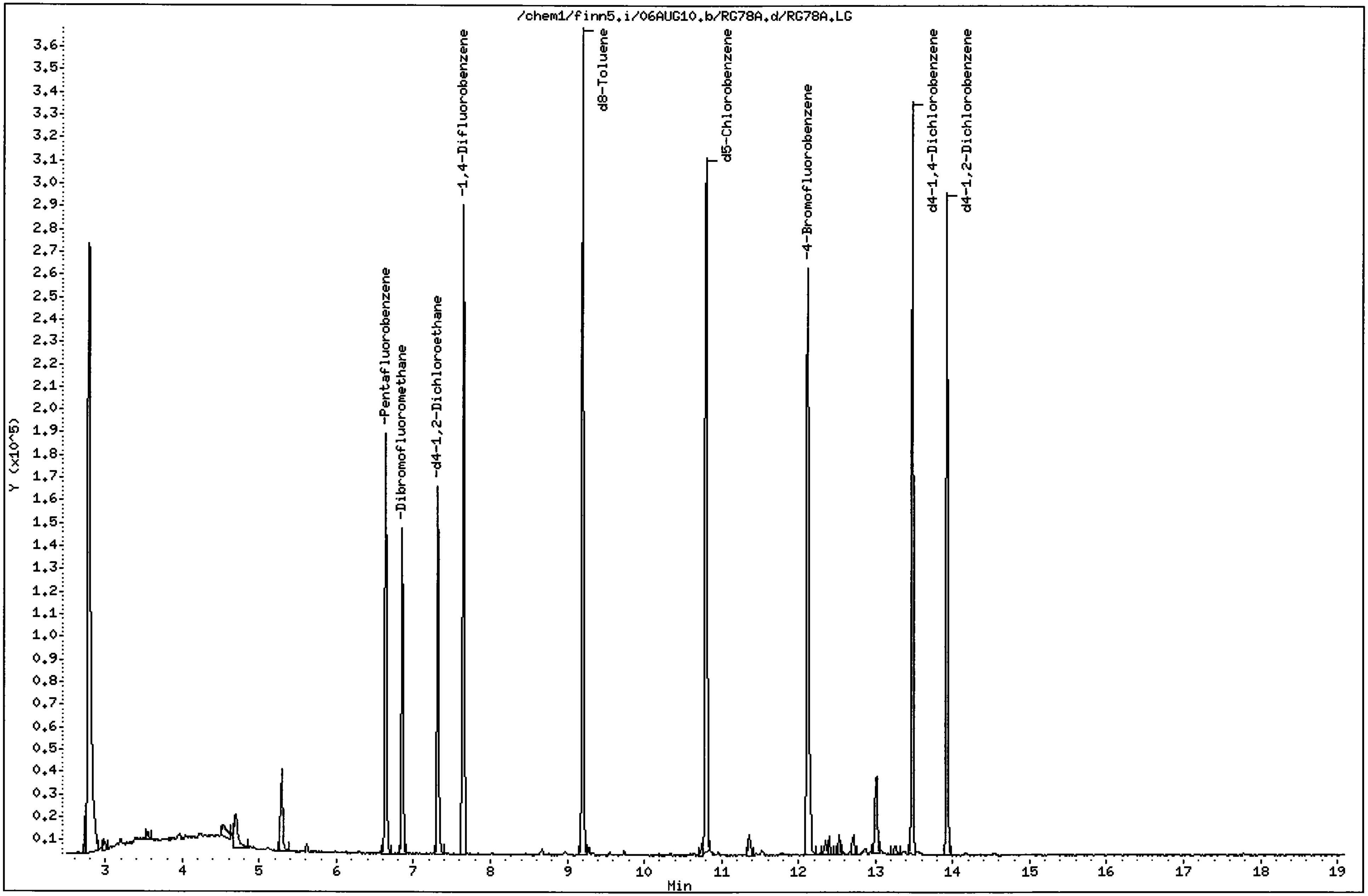
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	56.811	113.62	30-160
$ 31 d4-1,2-Dichloroeth	50.000	61.695	123.39	75-152
$ 43 d8-Toluene	50.000	51.743	103.49	82-115
$ 62 4-Bromofluorobenze	50.000	47.290	94.58	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.203	100.41	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78A.d
Date : 06-AUG-2010 13:19
Client ID: PSB9A-11-13.5-07301
Sample Info: RG78A,5,6,60,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78B.d
Lab Smp Id: RG78B Client Smp ID: PSB9A-1.5-2-073010
Inj Date : 06-AUG-2010 13:46
Operator : PB Inst ID: finn5.i
Smp Info : RG78B,5,9.08,0
Misc Info : 10-18434
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.08000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.663	4.683	(0.705)	35479	54.0079	29.740
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.256	5.276	(0.795)	13936	5.56598	3.065
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.271	6.281	(0.948)	2427	3.28339	1.808
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.613	6.633	(1.000)	117385	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.834	6.844	(1.033)	79557	56.8646	31.313 (Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.296	7.306	(1.103)	96982	63.3504	34.885
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.628	7.638	(1.000)	177385	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.176	9.186	(1.203)	202198	51.8771	28.567
	44 Toluene	92	9.256	9.276	(1.213)	1414	0.40915	0.2253
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.774	10.794	(1.000)	155396	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.090	12.110	(1.122)	88445	48.6320	26.780
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.457	13.467	(1.000)	77087	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.899	13.919	(1.033)	72715	51.8593	28.557
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78B.d
Lab Smp Id: RG78B
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18434

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB9A-1.5-2-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	117385	-10.47
34 1,4-Difluorobenze	191559	95780	383118	177385	-7.40
52 d5-Chlorobenzene	161199	80600	322398	155396	-3.60
76 d4-1,4-Dichlorobe	88279	44140	176558	77087	-12.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.61	-0.30
34 1,4-Difluorobenze	7.64	7.14	8.14	7.63	-0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.77	-0.19
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG78B
Client Smp ID: PSB9A-1.5-2-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18434

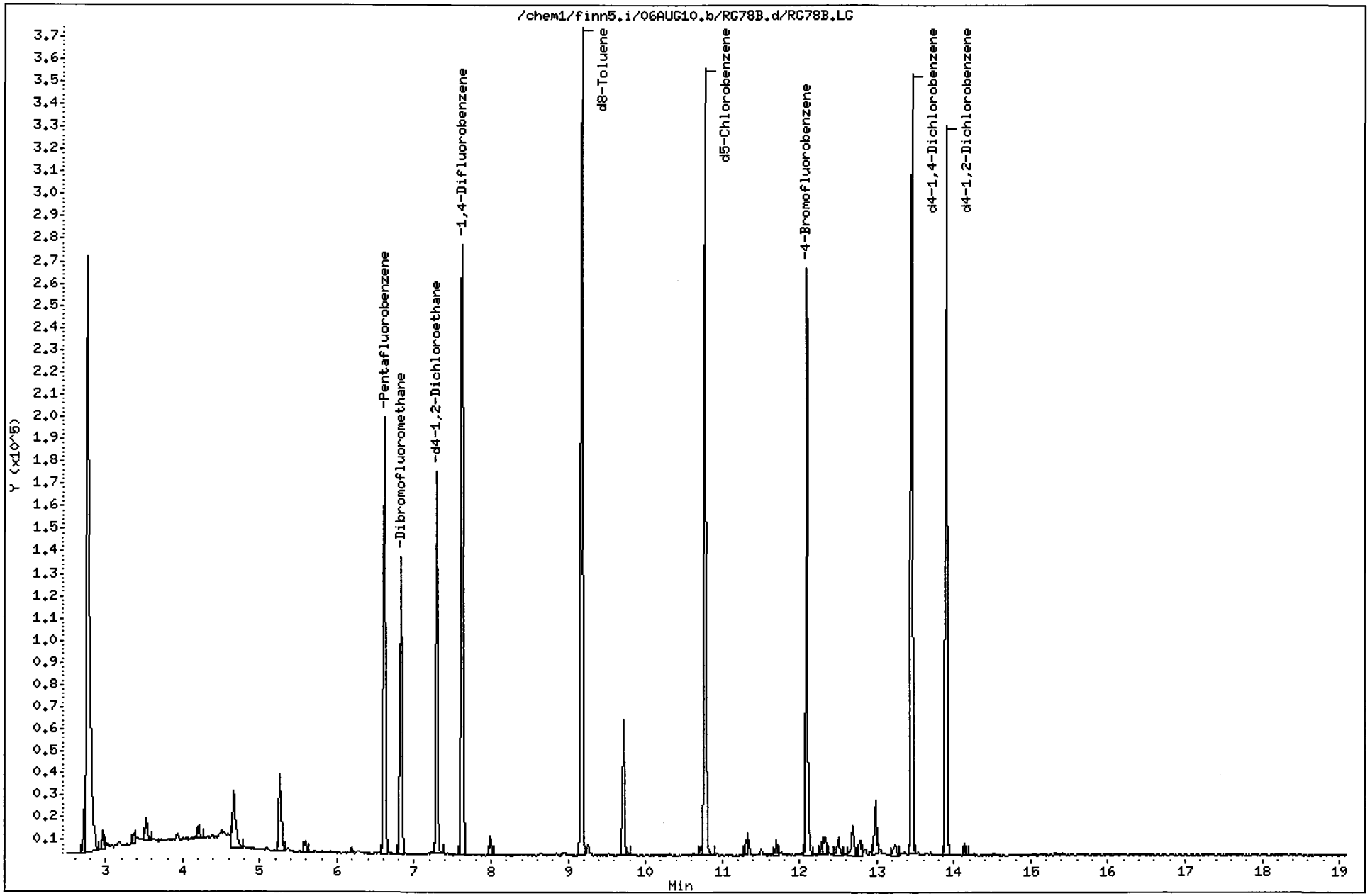
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	56.865	113.73	30-160
$ 31 d4-1,2-Dichloroeth	50.000	63.350	126.70	75-152
$ 43 d8-Toluene	50.000	51.877	103.75	82-115
$ 62 4-Bromofluorobenze	50.000	48.632	97.26	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.859	103.72	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78B.d
Date : 06-AUG-2010 13:46
Client ID: PSB9A-1.5-2-073010
Sample Info: RG78B,5,9.08,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



RG78:00157

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78C.d
Lab Smp Id: RG78C Client Smp ID: PSB9A-2-4-073010
Inj Date : 06-AUG-2010 14:12
Operator : PB Inst ID: finn5.i
Smp Info : RG78C,5,8.83,0
Misc Info : 10-18435
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	8.83000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.663	4.683	(0.705)	32302	50.0483	28.340
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.266	5.276	(0.796)	11820	4.80502	2.721
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.271	6.281	(0.948)	2490	3.42868	1.941
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.613	6.633	(1.000)	115329	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.834	6.844	(1.033)	78347	56.9981	32.275(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.296	7.306	(1.103)	96416	64.1035	36.299
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.628	7.638	(1.000)	176802	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.176	9.186	(1.203)	202658	52.1665	29.539
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.774	10.794	(1.000)	155984	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.100	12.110	(1.123)	88536	48.4986	27.462
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.457	13.467	(1.000)	79509	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.899	13.919	(1.033)	73822	51.0450	28.904
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78C.d
Lab Smp Id: RG78C
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18435

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB9A-2-4-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	115329	-12.04
34 1,4-Difluorobenze	191559	95780	383118	176802	-7.70
52 d5-Chlorobenzene	161199	80600	322398	155984	-3.24
76 d4-1,4-Dichlorobe	88279	44140	176558	79509	-9.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.61	-0.30
34 1,4-Difluorobenze	7.64	7.14	8.14	7.63	-0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.77	-0.19
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78C
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18435

Client SDG: RG78
Fraction: VOA
Client Smp ID: PSB9A-2-4-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

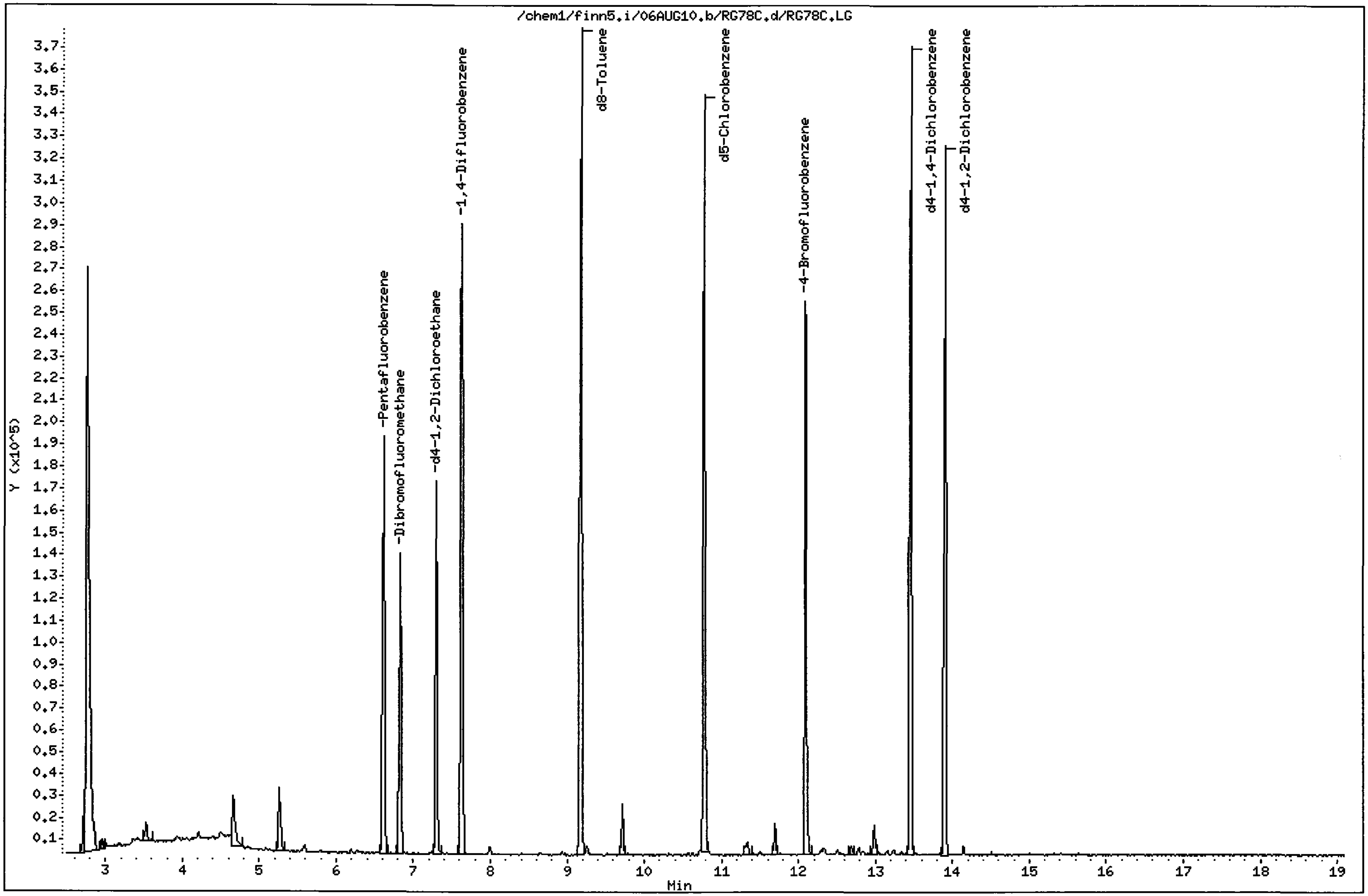
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	56.998	114.00	30-160
$ 31 d4-1,2-Dichloroeth	50.000	64.103	128.21	75-152
$ 43 d8-Toluene	50.000	52.166	104.33	82-115
$ 62 4-Bromofluorobenze	50.000	48.498	97.00	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.045	102.09	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78C.d
Date : 06-AUG-2010 14:12
Client ID: PSB9A-2-4-073010
Sample Info: RG78C,5,8.83,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78D.d
Lab Smp Id: RG78D Client Smp ID: PSB9A-4-6-073010
Inj Date : 06-AUG-2010 14:39
Operator : PB Inst ID: finn5.i
Smp Info : RG78D,5,6.12,0
Misc Info : 10-18436
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	6.12000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.663	4.683	(0.705)	24293	37.3192	30.490
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.256	5.276	(0.795)	11277	4.54531	3.713
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.271	6.281	(0.948)	2319	3.16606	2.587
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.613	6.633	(1.000)	116318	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.834	6.844	(1.033)	81488	58.7791	48.022(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.296	7.306	(1.103)	98982	65.2500	53.309
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.618	7.638	(1.000)	177830	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.176	9.186	(1.204)	202112	51.7252	42.259
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.774	10.794	(1.000)	155205	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.090	12.110	(1.122)	90486	49.8155	40.699
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.457	13.467	(1.000)	82476	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.899	13.919	(1.033)	77873	51.9090	42.409
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78D.d
Lab Smp Id: RG78D
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18436

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB9A-4-6-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	116318	-11.29
34 1,4-Difluorobenze	191559	95780	383118	177830	-7.17
52 d5-Chlorobenzene	161199	80600	322398	155205	-3.72
76 d4-1,4-Dichlorobe	88279	44140	176558	82476	-6.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.61	-0.30
34 1,4-Difluorobenze	7.64	7.14	8.14	7.62	-0.26
52 d5-Chlorobenzene	10.79	10.29	11.29	10.77	-0.19
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78D
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18436

Client SDG: RG78
Fraction: VOA
Client Smp ID: PSB9A-4-6-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

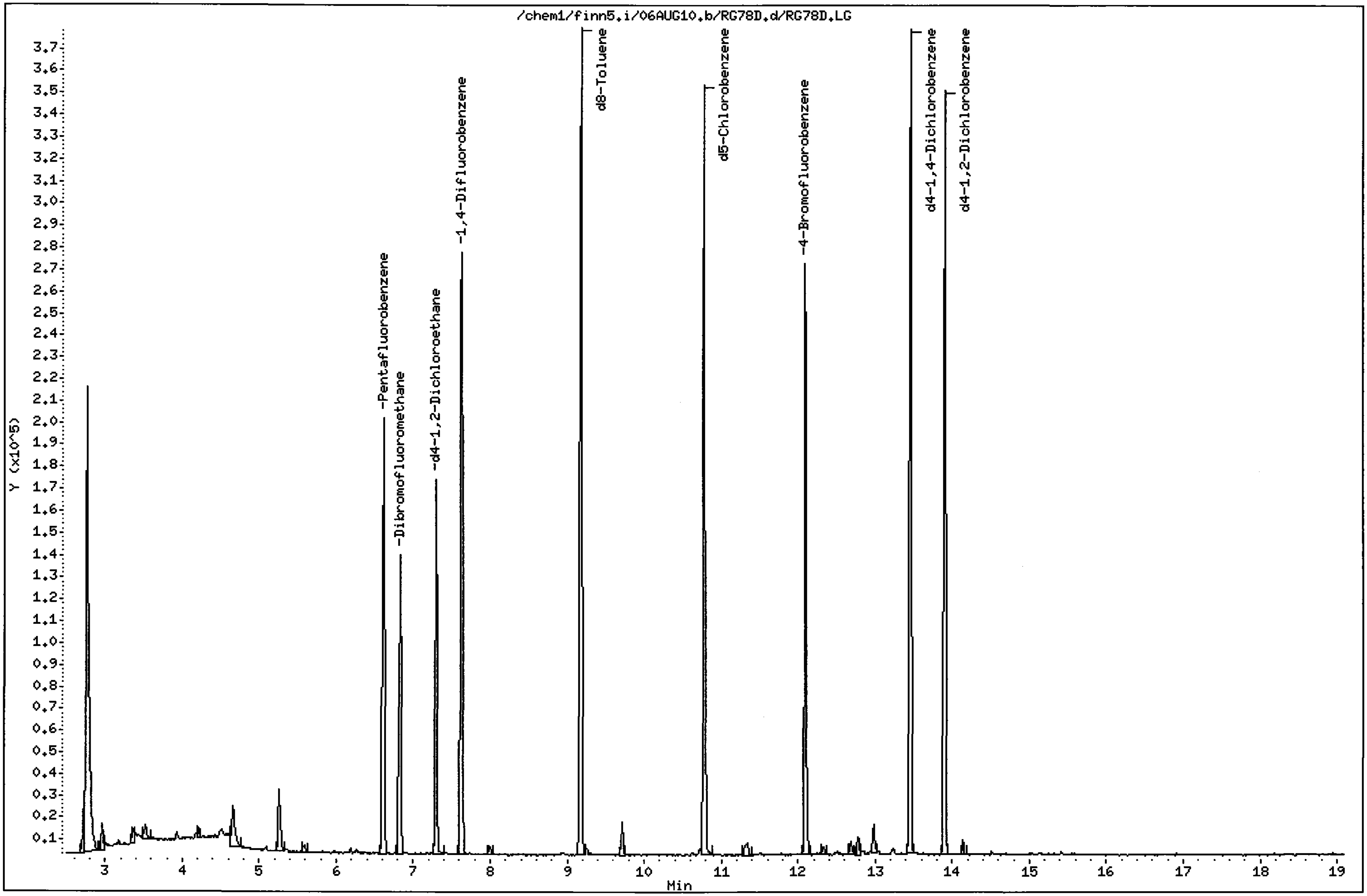
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	58.779	117.56	30-160
$ 31 d4-1,2-Dichloroeth	50.000	65.250	130.50	75-152
$ 43 d8-Toluene	50.000	51.725	103.45	82-115
$ 62 4-Bromofluorobenze	50.000	49.816	99.63	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.909	103.82	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78D.d
Date : 06-AUG-2010 14:39
Client ID: PSB9A-4-6-073010
Sample Info: RG78D,5,6,12,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78E.d
Lab Smp Id: RG78E Client Smp ID: PSB9A-0-0.5-073010
Inj Date : 06-AUG-2010 15:05
Operator : PB Inst ID: finn5.i
Smp Info : RG78E,5,6.78,0
Misc Info : 10-18437
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	6.78000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.673	4.683	(0.706)	202039	346.384	255.44(Q)
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.266	5.276	(0.795)	10929	4.91610	3.625
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.271	6.281	(0.947)	15946	24.2964	17.918
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.623	6.633	(1.000)	104226	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.834	6.844	(1.032)	73683	59.3154	43.743(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.296	7.306	(1.102)	90880	66.8595	49.306
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.437	7.447	(0.975)	4433	0.86655	0.6390
*	34 1,4-Difluorobenzene	114	7.628	7.638	(1.000)	155789	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.176	9.186	(1.203)	175349	51.2250	37.776
	44 Toluene	92	9.256	9.276	(1.213)	1497	0.49321	0.3637
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.774	10.794	(1.000)	128641	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.100	12.110	(1.123)	66373	44.0860	32.512
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.457	13.467	(1.000)	50970	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.899	13.919	(1.033)	46570	50.2314	37.044
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78E.d
Lab Smp Id: RG78E
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18437

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB9A-0-0.5-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	104226	-20.51
34 1,4-Difluorobenze	191559	95780	383118	155789	-18.67
52 d5-Chlorobenzene	161199	80600	322398	128641	-20.20
76 d4-1,4-Dichlorobe	88279	44140	176558	50970	-42.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.62	-0.15
34 1,4-Difluorobenze	7.64	7.14	8.14	7.63	-0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.77	-0.19
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG78E
Client Smp ID: PSB9A-0-0.5-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18437

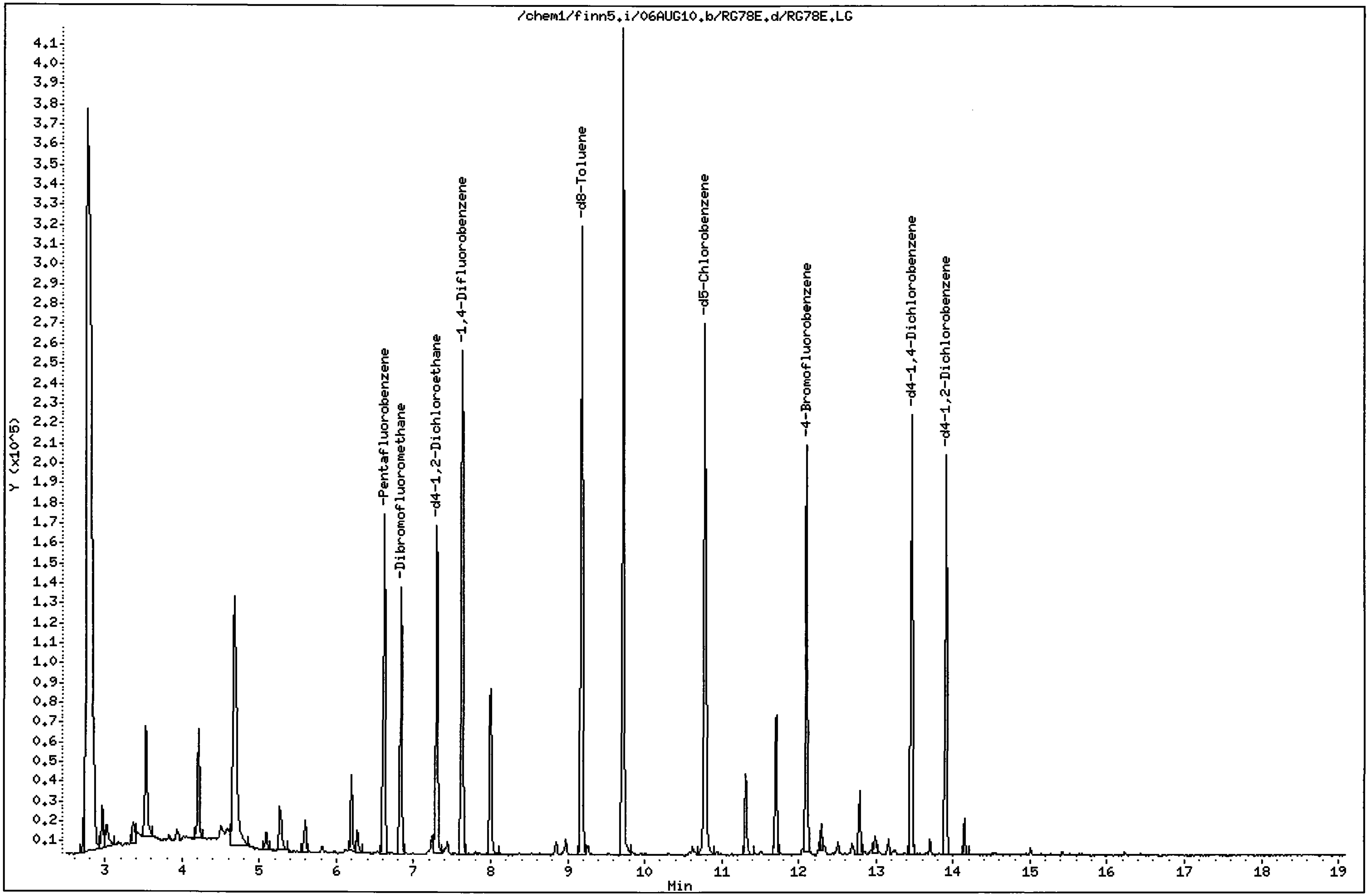
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	59.315	118.63	30-160
$ 31 d4-1,2-Dichloroeth	50.000	66.860	133.72	75-152
$ 43 d8-Toluene	50.000	51.225	102.45	82-115
$ 62 4-Bromofluorobenze	50.000	44.086	88.17	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.231	100.46	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78E.d
Date : 06-AUG-2010 15:05
Client ID: PSB9A-0-0.5-073010
Sample Info: RG78E,5,6.78,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78F.d
Lab Smp Id: RG78F Client Smp ID: PSB10-0-0.5-073010
Inj Date : 06-AUG-2010 15:32
Operator : PB Inst ID: finn5.i
Smp Info : RG78F,5,10.41,0
Misc Info : 10-18438
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.41000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.683	(0.706)	74098	115.460	55.456
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.286	5.276	(0.797)	8988	3.67457	1.765
14 Acrylonitrile	53	Compound Not Detected.					

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
Compounds								
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.291	6.281	(0.948)	4950	6.85486	3.292
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.633	(1.000)	114676	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.854	6.844	(1.033)	78871	57.7060	27.717(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.306	(1.103)	98028	65.5464	31.482
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.648	7.638	(1.000)	176687	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.186	(1.202)	200856	51.7363	24.849
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	153763	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.120	12.110	(1.123)	84901	47.1791	22.660
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
	69 2-Chloro Toluene	91	Compound Not Detected.					
	70 4-Chloro Toluene	91	Compound Not Detected.					
	71 T-Butyl Benzene	119	Compound Not Detected.					
	72 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	73 S-Butyl Benzene	105	Compound Not Detected.					
	74 4-Isopropyl Toluene	119	Compound Not Detected.					
	75 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	76 d4-1,4-Dichlorobenzene	152	13.477	13.467	(1.000)	74102	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.033)	70725	52.4719	25.203
	80 1,2-Dichlorobenzene	146	Compound Not Detected.					
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
	82 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	83 Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
	84 Naphthalene	128	Compound Not Detected.					
	85 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78F.d
Lab Smp Id: RG78F
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18438

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-0-0.5-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	114676	-12.54
34 1,4-Difluorobenze	191559	95780	383118	176687	-7.76
52 d5-Chlorobenzene	161199	80600	322398	153763	-4.61
76 d4-1,4-Dichlorobe	88279	44140	176558	74102	-16.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.63	0.00
34 1,4-Difluorobenze	7.64	7.14	8.14	7.65	0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.79	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.48	0.07

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.

Analytical Resources, Inc.

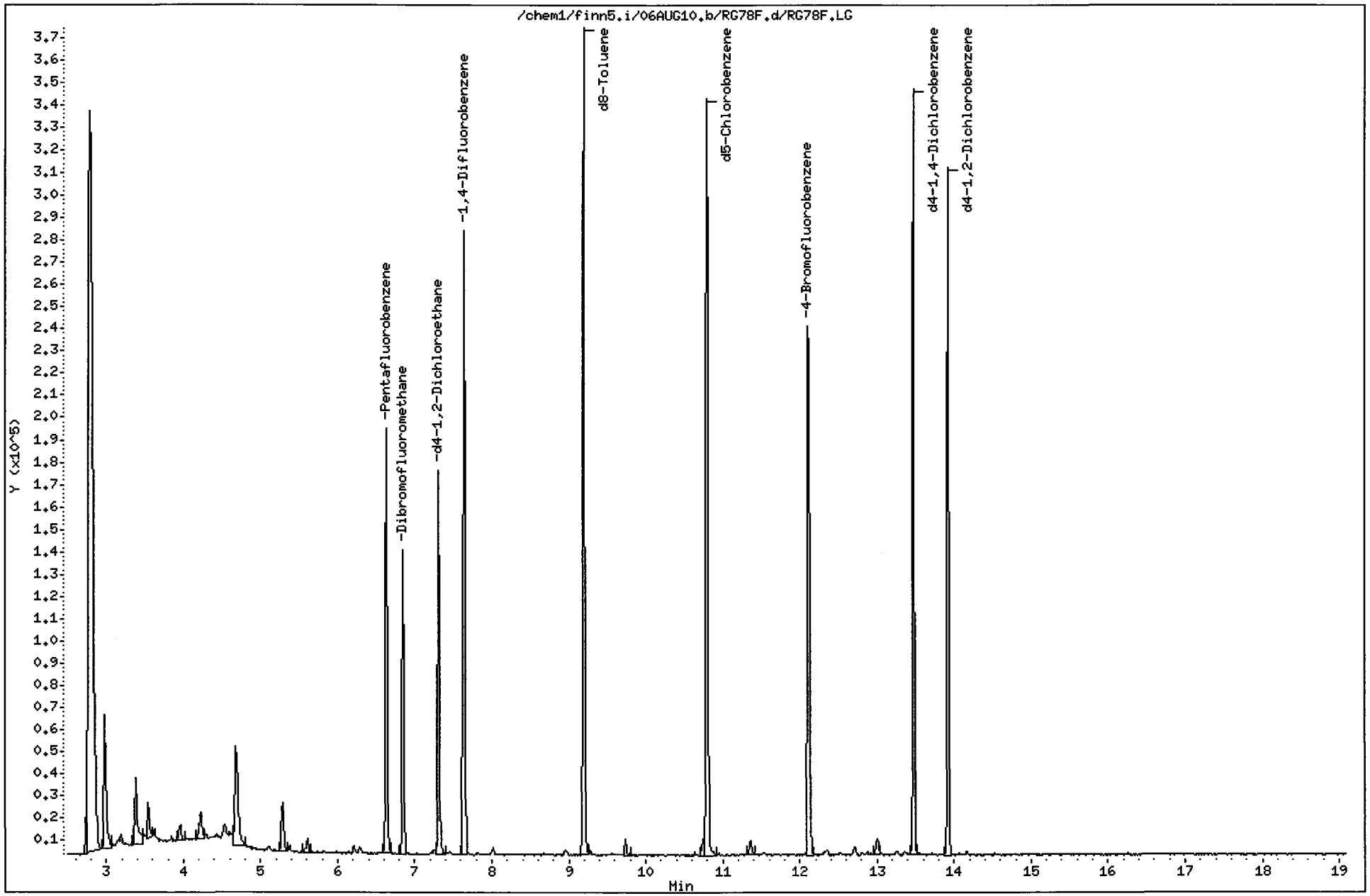
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG78F
Client Smp ID: PSB10-0-0.5-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18438

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.706	115.41	30-160
$ 31 d4-1,2-Dichloroeth	50.000	65.546	131.09	75-152
$ 43 d8-Toluene	50.000	51.736	103.47	82-115
$ 62 4-Bromofluorobenze	50.000	47.179	94.36	64-120
$ 79 d4-1,2-Dichloroben	50.000	52.472	104.94	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78F.d
Date : 06-AUG-2010 15:32
Client ID: PSB10-0-0.5-073010
Sample Info: RG78F,5,10.41,0

Instrument: finn5.i
Operator: PB
Column phase: Rtx502.2
Column diameter: 0.18



RG78:06148

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78G.d
Lab Smp Id: RG78G Client Smp ID: PSB10-1.5-2-073010
Inj Date : 06-AUG-2010 15:58
Operator : PB Inst ID: finn5.i
Smp Info : RG78G,5,8.71,0
Misc Info : 10-18439
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	8.71000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.683	(0.706)	106359	157.379	90.344
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.286	5.276	(0.797)	10676	4.14475	2.379
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.291	6.281	(0.948)	5760	7.57463	4.348
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.633	(1.000)	120761	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.854	6.844	(1.033)	82718	57.4711	32.991(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.306	(1.103)	101097	64.1923	36.850
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.648	7.638	(1.000)	182802	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.186	(1.202)	203663	50.7045	29.107
	44 Toluene	92	9.276	9.276	(1.213)	1584	0.44476	0.2553(Q)
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	152036	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.120	12.110	(1.123)	80846	45.4361	26.083
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.467	(1.000)	65813	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.033)	63288	52.8680	30.349
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78G.d
Lab Smp Id: RG78G
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18439

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-1.5-2-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	120761	-7.90
34 1,4-Difluorobenze	191559	95780	383118	182802	-4.57
52 d5-Chlorobenzene	161199	80600	322398	152036	-5.68
76 d4-1,4-Dichlorobe	88279	44140	176558	65813	-25.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.63	0.00
34 1,4-Difluorobenze	7.64	7.14	8.14	7.65	0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.79	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.48	0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG78G
Client Smp ID: PSB10-1.5-2-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18439

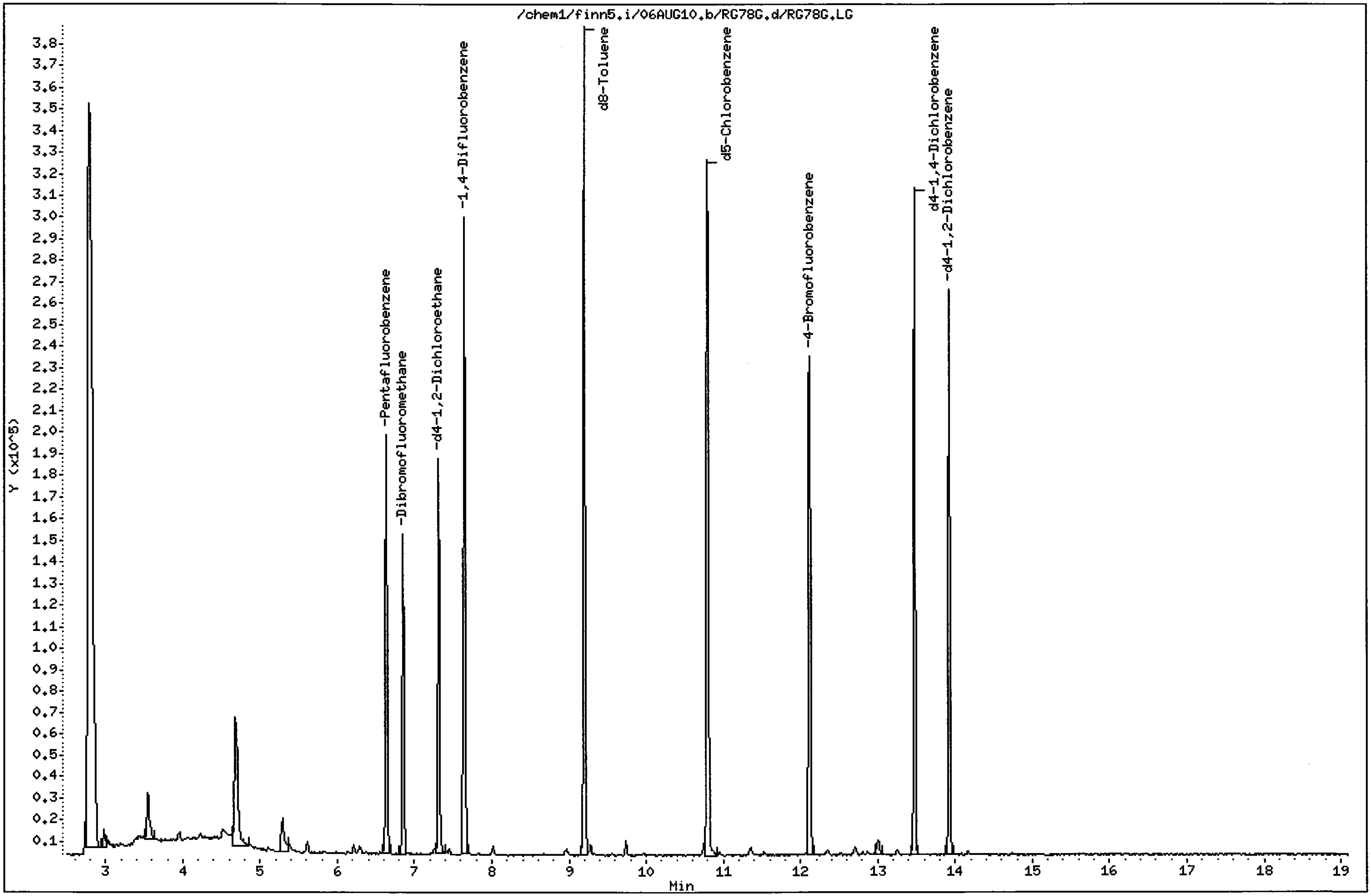
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.471	114.94	30-160
$ 31 d4-1,2-Dichloroeth	50.000	64.192	128.38	75-152
$ 43 d8-Toluene	50.000	50.704	101.41	82-115
$ 62 4-Bromofluorobenze	50.000	45.436	90.87	64-120
$ 79 d4-1,2-Dichloroben	50.000	52.868	105.74	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78G.d
Date : 06-AUG-2010 15:58
Client ID: PSB10-1.5-2-073010
Sample Info: RG78G,5,8.71,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78H.d
Lab Smp Id: RG78H Client Smp ID: PSB10-2-4-073010
Inj Date : 06-AUG-2010 16:24
Operator : PB Inst ID: finn5.i
Smp Info : RG78H,5,9.78,0
Misc Info : 10-18440
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.78000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.683	(0.706)	107897	165.464	84.593
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.286	5.276	(0.797)	3202	1.28835	0.6587(Q)
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.291	6.281	(0.948)	5493	7.48637	3.827
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.633	(1.000)	116521	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.854	6.844	(1.033)	81874	58.9547	30.140(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.306	(1.103)	98688	64.9428	33.202
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	179466	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.186	(1.204)	205070	52.0038	26.587
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	155258	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.122)	90129	49.6020	25.359
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.467	(1.000)	79056	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.033)	74647	51.9112	26.539
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78H.d
Lab Smp Id: RG78H
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18440

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-2-4-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	116521	-11.13
34 1,4-Difluorobenze	191559	95780	383118	179466	-6.31
52 d5-Chlorobenzene	161199	80600	322398	155258	-3.69
76 d4-1,4-Dichlorobe	88279	44140	176558	79056	-10.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.63	0.00
34 1,4-Difluorobenze	7.64	7.14	8.14	7.64	0.00
52 d5-Chlorobenzene	10.79	10.29	11.29	10.79	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.48	0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78H
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18440

Client SDG: RG78
Fraction: VOA
Client Smp ID: PSB10-2-4-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	58.955	117.91	30-160
$ 31 d4-1,2-Dichloroeth	50.000	64.943	129.89	75-152
$ 43 d8-Toluene	50.000	52.004	104.01	82-115
$ 62 4-Bromofluorobenze	50.000	49.602	99.20	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.911	103.82	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78H.d

Date : 06-AUG-2010 16:24

Client ID: PSB10-2-4-073010

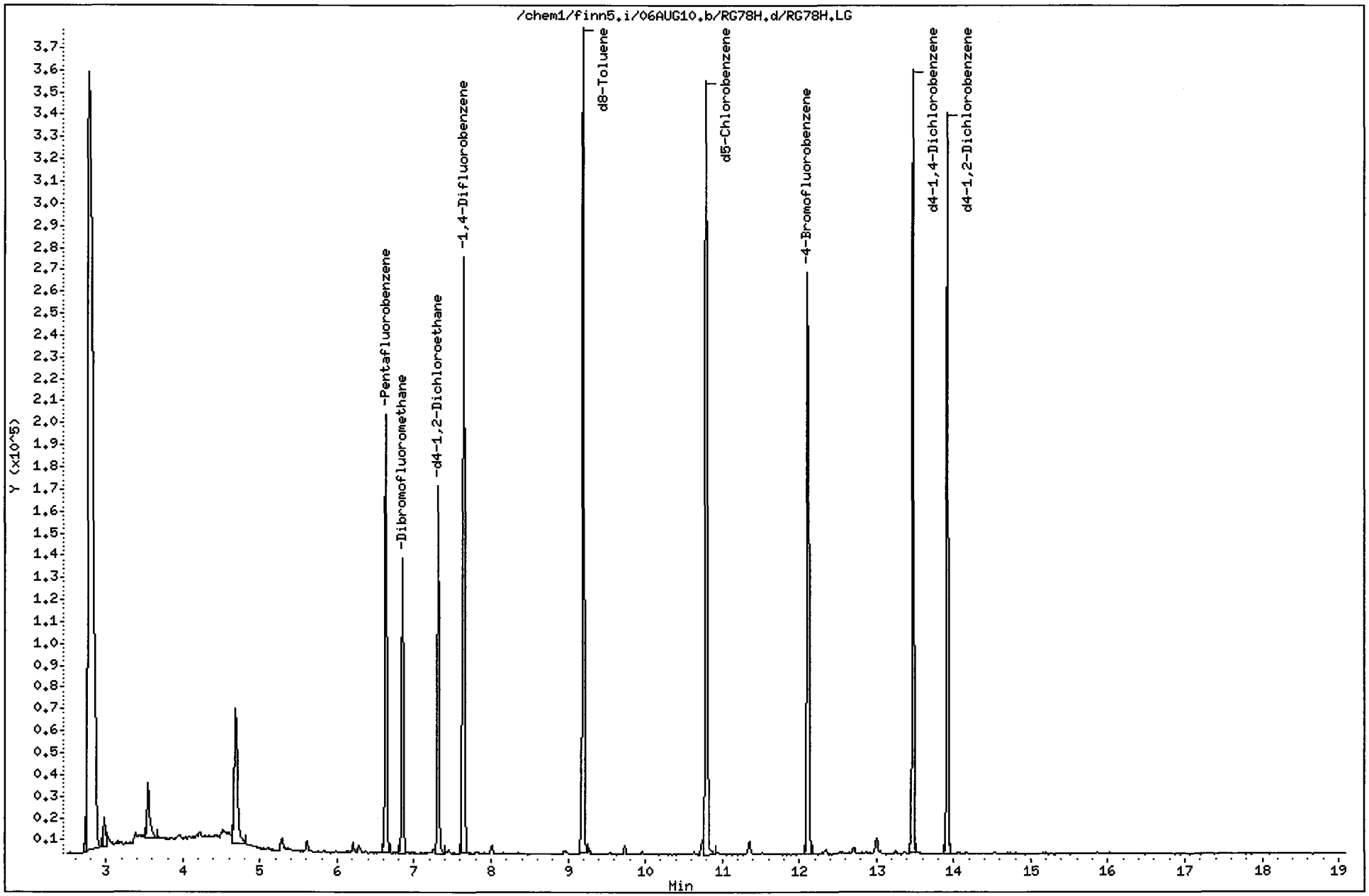
Sample Info: RG78H,5,9.78,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78I.d
Lab Smp Id: RG78I Client Smp ID: PSB10-4-6-073010
Inj Date : 06-AUG-2010 16:51
Operator : PB Inst ID: finn5.i
Smp Info : RG78I,5,10.20,0
Misc Info : 10-18441
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.20000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.673	4.683	(0.706)	97726	142.965	70.081
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.276	5.276	(0.797)	5357	2.05617	1.008
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)	
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.						
	15 Carbon Disulfide	76	Compound Not Detected.						
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.						
	18 Vinyl Acetate	43	Compound Not Detected.						
	19 1,1-Dichloroethane	63	Compound Not Detected.						
	20 2-Butanone	43	6.281	6.281	(0.948)	7505	9.75747	4.783	
	21 2,2-Dichloropropane	77	Compound Not Detected.						
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.						
*	23 Pentafluorobenzene	168	6.623	6.633	(1.000)	122146	50.0000		
	24 Chloroform	83	Compound Not Detected.						
	26 Bromochloromethane	128	Compound Not Detected.						
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	84538	58.0697	28.466	(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.						
	29 1,1-Dichloropropene	75	Compound Not Detected.						
	30 Carbon Tetrachloride	117	Compound Not Detected.						
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	101104	63.4688	31.112	
	32 1,2-Dichloroethane	62	Compound Not Detected.						
	33 Benzene	78	7.447	7.447	(0.975)	3543	0.59044	0.2894	
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	182739	50.0000		
	35 Trichloroethene	95	Compound Not Detected.						
	36 1,2-Dichloropropane	63	Compound Not Detected.						
	37 Bromodichloromethane	83	Compound Not Detected.						
	39 Dibromomethane	93	Compound Not Detected.						
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.						
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.						
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.						
$	43 d8-Toluene	98	9.186	9.186	(1.203)	205420	51.1596	25.078	
	44 Toluene	92	9.266	9.276	(1.213)	1773	0.49800	0.2441	
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.						
	46 2-Hexanone	43	Compound Not Detected.						
	47 1,1,2-Trichloroethane	97	Compound Not Detected.						
	48 1,3-Dichloropropane	76	Compound Not Detected.						
	49 Tetrachloroethene	166	Compound Not Detected.						
	50 Chlorodibromomethane	129	Compound Not Detected.						
	51 1,2-Dibromoethane	107	Compound Not Detected.						
*	52 d5-Chlorobenzene	117	10.784	10.794	(1.000)	145508	50.0000		
	53 Chlorobenzene	112	Compound Not Detected.						
	54 Ethyl Benzene	91	Compound Not Detected.						
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	56 m,p-xylene	106	Compound Not Detected.						
	57 o-Xylene	106	Compound Not Detected.						
	58 Styrene	104	Compound Not Detected.						
	59 Isopropyl Benzene	105	Compound Not Detected.						
	60 Bromoform	173	Compound Not Detected.						
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.123)	71762	42.1402	20.657	
	63 1,2,3-Trichloropropane	110	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	53410	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.919	(1.033)	50311	51.7874	25.386
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78I.d
Lab Smp Id: RG78I
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18441

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-4-6-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	122146	-6.84
34 1,4-Difluorobenze	191559	95780	383118	182739	-4.60
52 d5-Chlorobenzene	161199	80600	322398	145508	-9.73
76 d4-1,4-Dichlorobe	88279	44140	176558	53410	-39.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.62	-0.15
34 1,4-Difluorobenze	7.64	7.14	8.14	7.64	0.00
52 d5-Chlorobenzene	10.79	10.29	11.29	10.78	-0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78I
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18441

Client SDG: RG78
Fraction: VOA
Client Smp ID: PSB10-4-6-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

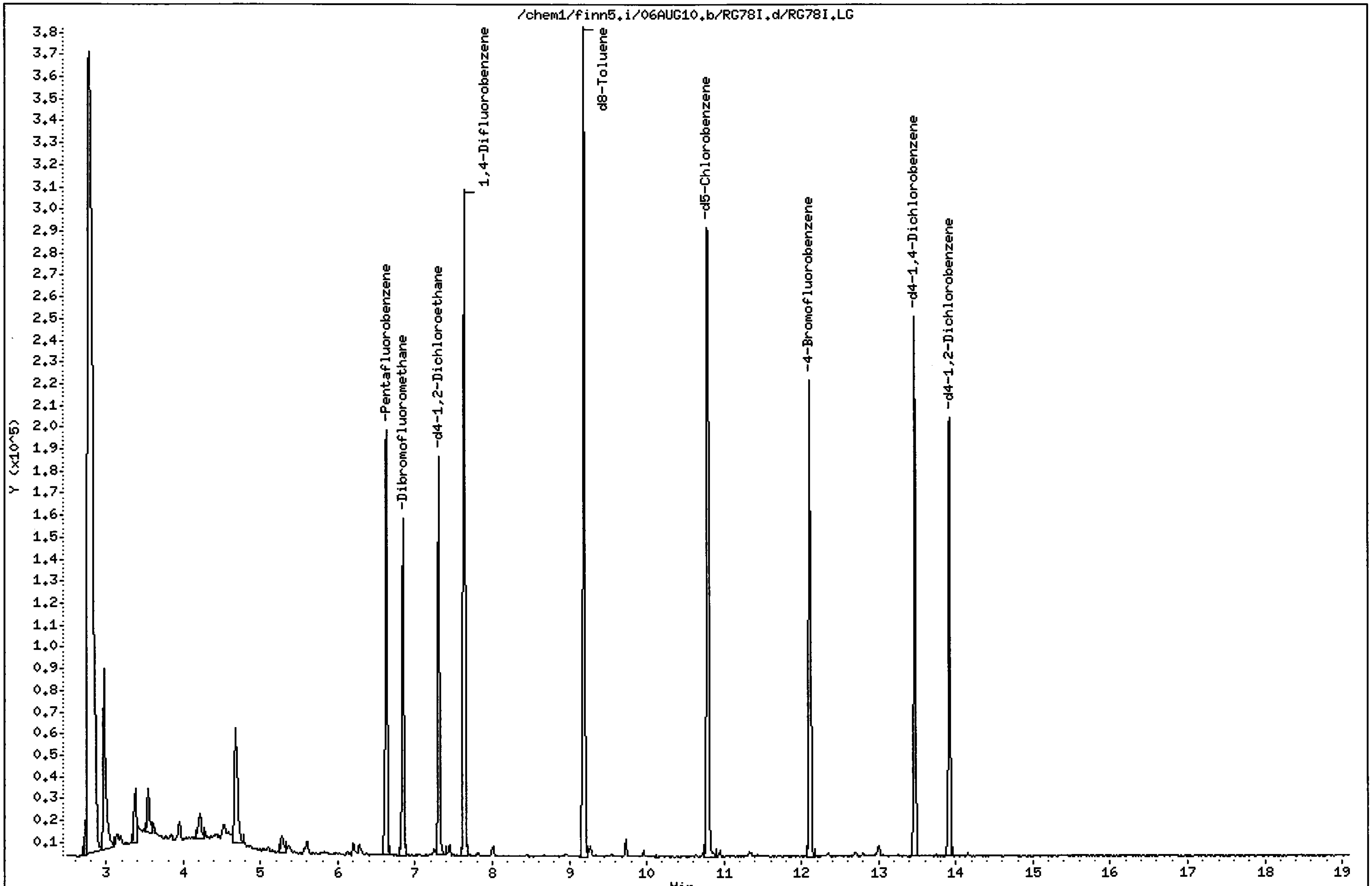
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	58.070	116.14	30-160
$ 31 d4-1,2-Dichloroeth	50.000	63.469	126.94	75-152
$ 43 d8-Toluene	50.000	51.160	102.32	82-115
$ 62 4-Bromofluorobenze	50.000	42.140	84.28	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.787	103.57	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78I.d
Date : 06-AUG-2010 16:51
Client ID: PSB10-4-6-073010
Sample Info: RG78I,5,10,20,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78J.d
Lab Smp Id: RG78J Client Smp ID: PSB10-8.5-10-073010
Inj Date : 06-AUG-2010 17:17
Operator : PB Inst ID: finn5.i
Smp Info : RG78J,5,9.12,0
Misc Info : 10-18442
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.12000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.693	4.683	(0.708)	176545	258.290	141.61
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.286	5.276	(0.797)	5902	2.26552	1.242
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.291	6.281	(0.948)	7316	9.51245	5.215
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.633	(1.000)	122137	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.854	6.844	(1.033)	85684	58.8612	32.270(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.306	(1.103)	105256	66.0801	36.228
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.648	7.638	(1.000)	187798	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.186	(1.202)	212339	51.4582	28.212
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	160496	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.120	12.110	(1.123)	89970	47.8986	26.260
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

ug

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
	69 2-Chloro Toluene	91	Compound Not Detected.					
	70 4-Chloro Toluene	91	Compound Not Detected.					
	71 T-Butyl Benzene	119	Compound Not Detected.					
	72 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	73 S-Butyl Benzene	105	Compound Not Detected.					
	74 4-Isopropyl Toluene	119	Compound Not Detected.					
	75 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	76 d4-1,4-Dichlorobenzene	152	13.477	13.467	(1.000)	78355	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.033)	74558	52.3132	28.680
	80 1,2-Dichlorobenzene	146	Compound Not Detected.					
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
	82 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	83 Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
	84 Naphthalene	128	Compound Not Detected.					
	85 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78J.d
Lab Smp Id: RG78J
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18442

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-8.5-10-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	122137	-6.85
34 1,4-Difluorobenze	191559	95780	383118	187798	-1.96
52 d5-Chlorobenzene	161199	80600	322398	160496	-0.44
76 d4-1,4-Dichlorobe	88279	44140	176558	78355	-11.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.63	0.00
34 1,4-Difluorobenze	7.64	7.14	8.14	7.65	0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.79	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.48	0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78J
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18442

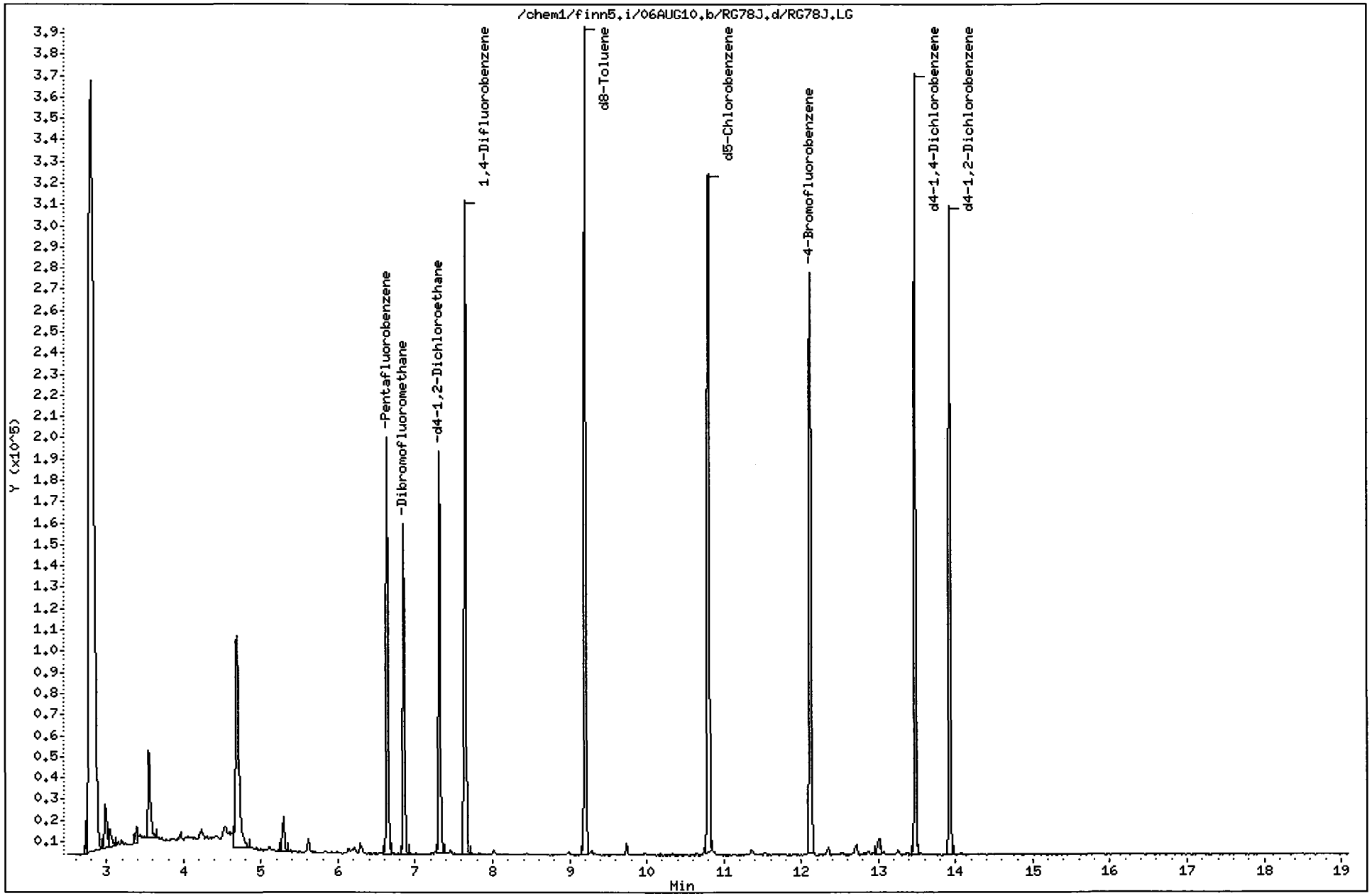
Client SDG: RG78
Fraction: VOA
Client Smp ID: PSB10-8.5-10-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	58.861	117.72	30-160
$ 31 d4-1,2-Dichloroeth	50.000	66.080	132.16	75-152
$ 43 d8-Toluene	50.000	51.458	102.92	82-115
$ 62 4-Bromofluorobenze	50.000	47.898	95.80	64-120
$ 79 d4-1,2-Dichloroben	50.000	52.313	104.63	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78J.d
Date : 06-AUG-2010 17:17
Client ID: PSB10-8.5-10-073010
Sample Info: RG78J,5,9.12,0

Instrument: finn5.i
Operator: PB
Column phase: Rtx502.2
Column diameter: 0.18

RG78 : 00505



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78K.d
Lab Smp Id: RG78K Client Smp ID: PSB10-14-15-073010
Inj Date : 06-AUG-2010 17:44
Operator : PB Inst ID: finn5.i
Smp Info : RG78K,5,10.14,0
Misc Info : 10-18443
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.14000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.683	(0.707)	18992	27.3809	13.501
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.276	5.276	(0.797)	7574	2.86497	1.413
14 Acrylonitrile	53	Compound Not Detected.					

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16	Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15	Carbon Disulfide	76	Compound Not Detected.					
	17	Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18	Vinyl Acetate	43	Compound Not Detected.					
	19	1,1-Dichloroethane	63	Compound Not Detected.					
	20	2-Butanone	43	Compound Not Detected.					
	21	2,2-Dichloropropane	77	Compound Not Detected.					
	22	Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23	Pentafluorobenzene	168	6.623	6.633	(1.000)	123943	50.0000	
	24	Chloroform	83	Compound Not Detected.					
	26	Bromochloromethane	128	Compound Not Detected.					
$	25	Dibromofluoromethane	111	6.844	6.844	(1.033)	85364	57.7869	28.494(Q)
	27	1,1,1-Trichloroethane	97	Compound Not Detected.					
	29	1,1-Dichloropropene	75	Compound Not Detected.					
	30	Carbon Tetrachloride	117	Compound Not Detected.					
$	31	d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	103060	63.7587	31.439
	32	1,2-Dichloroethane	62	Compound Not Detected.					
	33	Benzene	78	Compound Not Detected.					
*	34	1,4-Difluorobenzene	114	7.638	7.638	(1.000)	191508	50.0000	
	35	Trichloroethene	95	Compound Not Detected.					
	36	1,2-Dichloropropane	63	Compound Not Detected.					
	37	Bromodichloromethane	83	Compound Not Detected.					
	39	Dibromomethane	93	Compound Not Detected.					
	40	2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41	4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42	Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43	d8-Toluene	98	9.186	9.186	(1.203)	219592	52.1849	25.732
	44	Toluene	92	Compound Not Detected.					
	45	Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46	2-Hexanone	43	Compound Not Detected.					
	47	1,1,2-Trichloroethane	97	Compound Not Detected.					
	48	1,3-Dichloropropane	76	Compound Not Detected.					
	49	Tetrachloroethene	166	Compound Not Detected.					
	50	Chlorodibromomethane	129	Compound Not Detected.					
	51	1,2-Dibromoethane	107	Compound Not Detected.					
*	52	d5-Chlorobenzene	117	10.784	10.794	(1.000)	166710	50.0000	
	53	Chlorobenzene	112	Compound Not Detected.					
	54	Ethyl Benzene	91	Compound Not Detected.					
	55	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56	m,p-xylene	106	Compound Not Detected.					
	57	o-Xylene	106	Compound Not Detected.					
	58	Styrene	104	Compound Not Detected.					
	59	Isopropyl Benzene	105	Compound Not Detected.					
	60	Bromoform	173	Compound Not Detected.					
	61	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62	4-Bromofluorobenzene	95	12.110	12.110	(1.123)	94643	48.5083	23.919
	63	1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
	69 2-Chloro Toluene	91	Compound Not Detected.					
	70 4-Chloro Toluene	91	Compound Not Detected.					
	71 T-Butyl Benzene	119	Compound Not Detected.					
	72 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	73 S-Butyl Benzene	105	Compound Not Detected.					
	74 4-Isopropyl Toluene	119	Compound Not Detected.					
	75 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	76 d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	84603	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.919	(1.033)	79702	51.7925	25.539
	80 1,2-Dichlorobenzene	146	Compound Not Detected.					
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
	82 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	83 Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
	84 Naphthalene	128	Compound Not Detected.					
	85 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78K.d
Lab Smp Id: RG78K
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18443

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-14-15-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	123943	-5.47
34 1,4-Difluorobenze	191559	95780	383118	191508	-0.03
52 d5-Chlorobenzene	161199	80600	322398	166710	3.42
76 d4-1,4-Dichlorobe	88279	44140	176558	84603	-4.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.62	-0.15
34 1,4-Difluorobenze	7.64	7.14	8.14	7.64	0.00
52 d5-Chlorobenzene	10.79	10.29	11.29	10.78	-0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Analytical Resources, Inc.

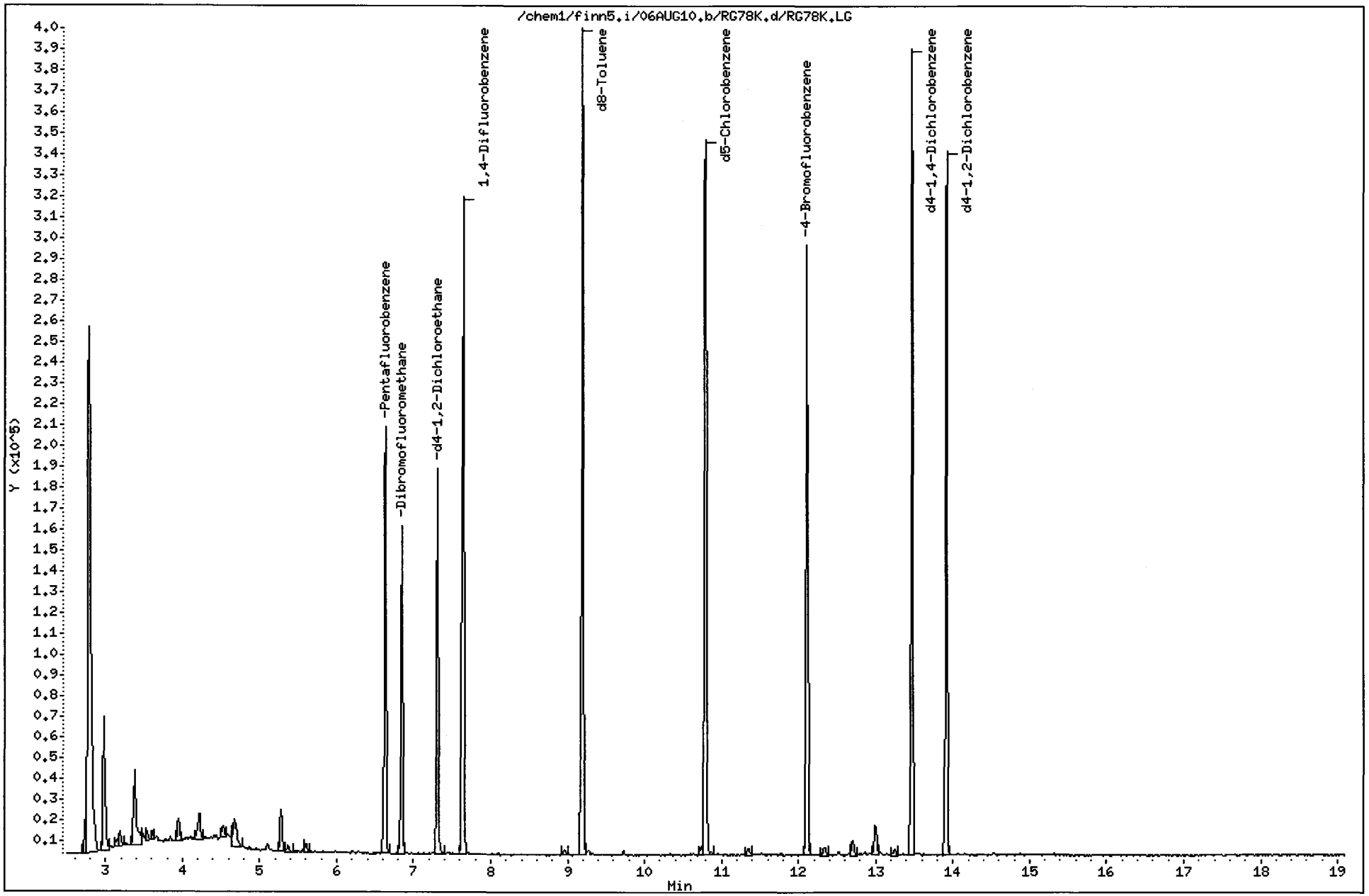
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG78K
Client Smp ID: PSB10-14-15-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18443

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.787	115.57	30-160
$ 31 d4-1,2-Dichloroeth	50.000	63.759	127.52	75-152
$ 43 d8-Toluene	50.000	52.185	104.37	82-115
$ 62 4-Bromofluorobenze	50.000	48.508	97.02	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.792	103.59	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78K.d
Date : 06-AUG-2010 17:44
Client ID: PSB10-14-15-073010
Sample Info: RG78K,5,10.14,0

Instrument: finn5.i
Operator: PB
Column phase: Rtx502.2
Column diameter: 0.18



RG78:00511

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78L.d
Lab Smp Id: RG78L Client Smp ID: PSB10-20-25-073010
Inj Date : 06-AUG-2010 18:10
Operator : PB Inst ID: finn5.i
Smp Info : RG78L,5,10.11,0
Misc Info : 10-18444
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.11000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.673	4.683	(0.706)	14464	20.8449	10.309
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.266	5.276	(0.795)	6917	2.61546	1.293
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.623	6.633	(1.000)	123990	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.834	6.844	(1.032)	86259	58.3706	28.868(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.296	7.306	(1.102)	105773	65.4123	32.350
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.628	7.638	(1.000)	189528	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.176	9.186	(1.203)	219712	52.7589	26.092
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.784	10.794	(1.000)	165443	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.100	12.110	(1.122)	92688	47.8701	23.675
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
	69 2-Chloro Toluene	91	Compound Not Detected.					
	70 4-Chloro Toluene	91	Compound Not Detected.					
	71 T-Butyl Benzene	119	Compound Not Detected.					
	72 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	73 S-Butyl Benzene	105	Compound Not Detected.					
	74 4-Isopropyl Toluene	119	Compound Not Detected.					
	75 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	76 d4-1,4-Dichlorobenzene	152	13.457	13.467	(1.000)	80774	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.919	(1.034)	76620	52.1500	25.791
	80 1,2-Dichlorobenzene	146	Compound Not Detected.					
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
	82 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	83 Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
	84 Naphthalene	128	Compound Not Detected.					
	85 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78L.d
Lab Smp Id: RG78L
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18444

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-20-25-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	123990	-5.43
34 1,4-Difluorobenze	191559	95780	383118	189528	-1.06
52 d5-Chlorobenzene	161199	80600	322398	165443	2.63
76 d4-1,4-Dichlorobe	88279	44140	176558	80774	-8.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.62	-0.15
34 1,4-Difluorobenze	7.64	7.14	8.14	7.63	-0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.78	-0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG78L
Client Smp ID: PSB10-20-25-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18444

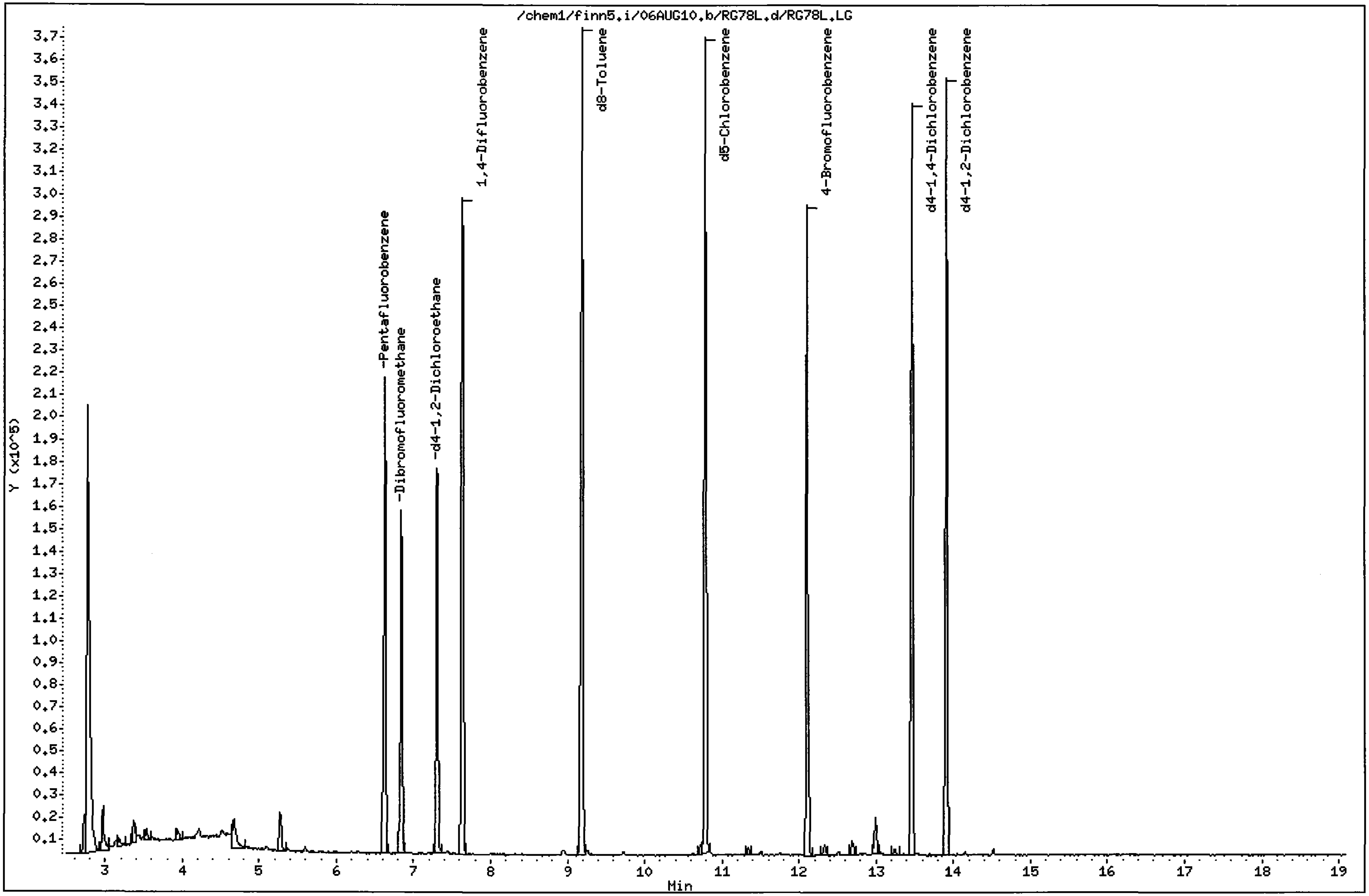
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	58.371	116.74	30-160
$ 31 d4-1,2-Dichloroeth	50.000	65.412	130.82	75-152
$ 43 d8-Toluene	50.000	52.759	105.52	82-115
$ 62 4-Bromofluorobenze	50.000	47.870	95.74	64-120
$ 79 d4-1,2-Dichloroben	50.000	52.150	104.30	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78L.d
Date : 06-AUG-2010 18:10
Client ID: PSB10-20-25-073010
Sample Info: RG78L,5,10,11,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78M.d
Lab Smp Id: RG78M Client Smp ID: PSB9-TB
Inj Date : 06-AUG-2010 18:37
Operator : PB Inst ID: finn5.i
Smp Info : RG78M,5,5,0
Misc Info : 10-18445
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	PurgeVolume (mL)
Sa	0.00000	SampleAmount (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
1	Dichlorodifluoromethane	85	Compound Not Detected.					
2	Chloromethane	50	Compound Not Detected.					
3	Vinyl Chloride	62	Compound Not Detected.					
4	Bromomethane	94	Compound Not Detected.					
5	Chloroethane	64	Compound Not Detected.					
6	Trichlorofluoromethane	101	Compound Not Detected.					
7	Acrolein	56	Compound Not Detected.					
8	112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9	Acetone	43	4.673	4.683	(0.706)	3419	5.20347	5.203
10	1,1-Dichloroethene	96	Compound Not Detected.					
11	Bromoethane	108	Compound Not Detected.					
12	Iodomethane	142	Compound Not Detected.					
13	Methylene Chloride	84	Compound Not Detected.					
14	Acrylonitrile	53	Compound Not Detected.					
16	Methyl tert-Butyl Ether	73	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/L)
	15	Carbon Disulfide	76	Compound Not Detected.					
	17	Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18	Vinyl Acetate	43	Compound Not Detected.					
	19	1,1-Dichloroethane	63	Compound Not Detected.					
	20	2-Butanone	43	Compound Not Detected.					
	21	2,2-Dichloropropane	77	Compound Not Detected.					
	22	Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23	Pentafluorobenzene	168	6.623	6.633	(1.000)	117410	50.0000	
	24	Chloroform	83	Compound Not Detected.					
	26	Bromochloromethane	128	Compound Not Detected.					
$	25	Dibromofluoromethane	111	6.834	6.844	(1.032)	78126	55.8299	55.830(Q)
	27	1,1,1-Trichloroethane	97	Compound Not Detected.					
	29	1,1-Dichloropropene	75	Compound Not Detected.					
	30	Carbon Tetrachloride	117	Compound Not Detected.					
$	31	d4-1,2-Dichloroethane	65	7.296	7.306	(1.102)	86962	56.7931	56.793
	32	1,2-Dichloroethane	62	Compound Not Detected.					
	33	Benzene	78	Compound Not Detected.					
*	34	1,4-Difluorobenzene	114	7.628	7.638	(1.000)	182297	50.0000	
	35	Trichloroethene	95	Compound Not Detected.					
	36	1,2-Dichloropropane	63	Compound Not Detected.					
	37	Bromodichloromethane	83	Compound Not Detected.					
	39	Dibromomethane	93	Compound Not Detected.					
	40	2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41	4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42	Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43	d8-Toluene	98	9.176	9.186	(1.203)	203848	50.8912	50.891
	44	Toluene	92	Compound Not Detected.					
	45	Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46	2-Hexanone	43	Compound Not Detected.					
	47	1,1,2-Trichloroethane	97	Compound Not Detected.					
	48	1,3-Dichloropropane	76	Compound Not Detected.					
	49	Tetrachloroethene	166	Compound Not Detected.					
	50	Chlorodibromomethane	129	Compound Not Detected.					
	51	1,2-Dibromoethane	107	Compound Not Detected.					
*	52	d5-Chlorobenzene	117	10.784	10.794	(1.000)	152791	50.0000	
	53	Chlorobenzene	112	Compound Not Detected.					
	54	Ethyl Benzene	91	Compound Not Detected.					
	55	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56	m,p-xylene	106	Compound Not Detected.					
	57	o-Xylene	106	Compound Not Detected.					
	58	Styrene	104	Compound Not Detected.					
	59	Isopropyl Benzene	105	Compound Not Detected.					
	60	Bromoform	173	Compound Not Detected.					
	61	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62	4-Bromofluorobenzene	95	12.100	12.110	(1.122)	85284	47.6935	47.693
	63	1,2,3-Trichloropropane	110	Compound Not Detected.					
	65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.457	13.467	(1.000)	74258	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.919	(1.034)	69644	51.5613	51.561
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78M.d
Lab Smp Id: RG78M
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18445

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB9-TB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	117410	-10.45
34 1,4-Difluorobenze	191559	95780	383118	182297	-4.84
52 d5-Chlorobenzene	161199	80600	322398	152791	-5.22
76 d4-1,4-Dichlorobe	88279	44140	176558	74258	-15.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.62	-0.15
34 1,4-Difluorobenze	7.64	7.14	8.14	7.63	-0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.78	-0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: RG78M
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18445

Client SDG: RG78
Fraction: VOA
Client Smp ID: PSB9-TB
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

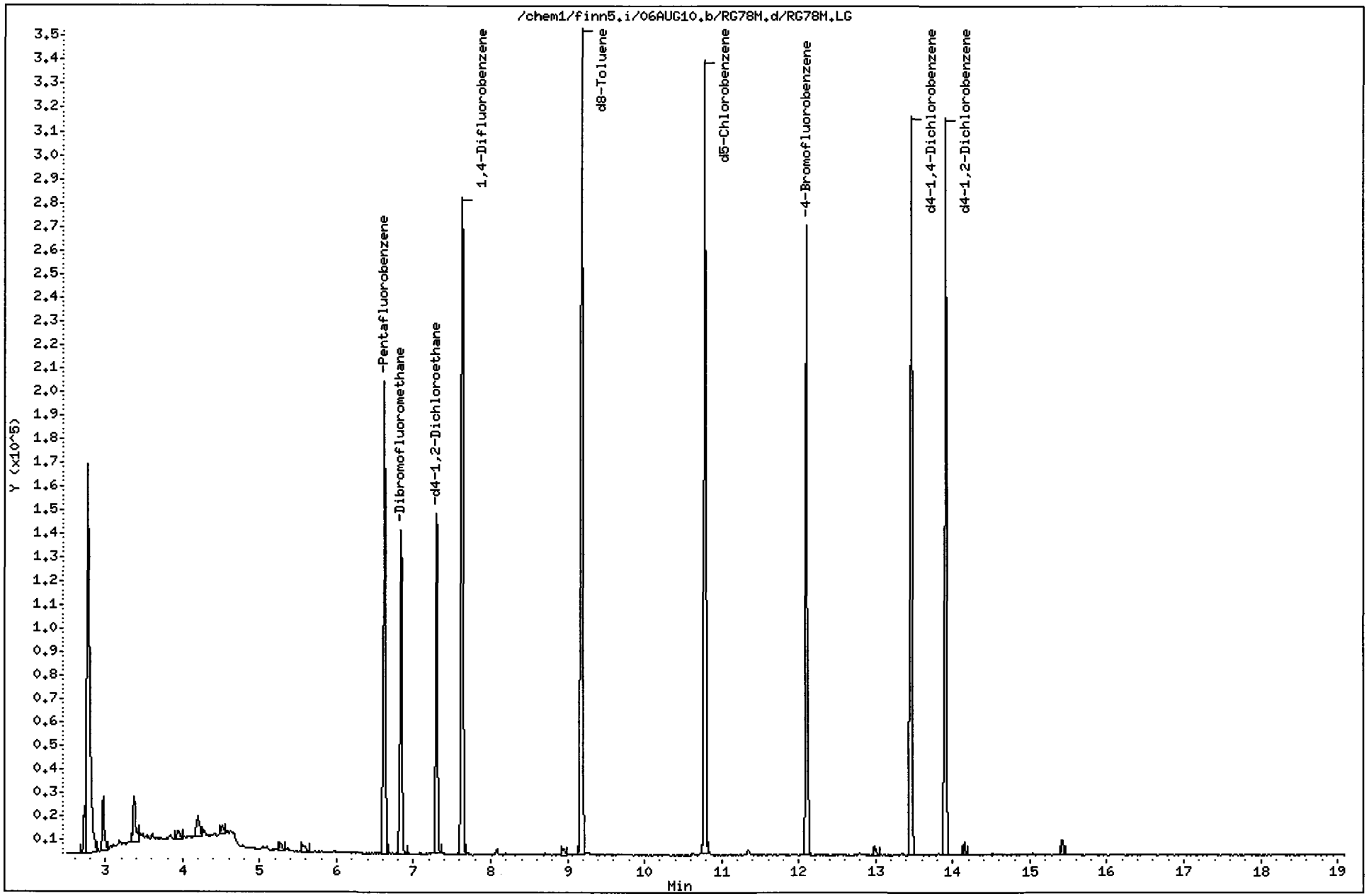
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	55.830	111.66	30-160
$ 31 d4-1,2-Dichloroeth	50.000	56.793	113.59	75-152
$ 43 d8-Toluene	50.000	50.891	101.78	82-115
$ 62 4-Bromofluorobenze	50.000	47.693	95.39	71-120
$ 79 d4-1,2-Dichloroben	50.000	51.561	103.12	80-121

Data File: /chem1/finn5.i/06AUG10.b/RG78M.d
Date : 06-AUG-2010 18:37
Client ID: PSB9-TB
Sample Info: RG78M,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



RG78:99529

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78N.d
Lab Smp Id: RG78N Client Smp ID: PSB10-TB
Inj Date : 06-AUG-2010 19:03
Operator : PB Inst ID: finn5.i
Smp Info : RG78N,5,5,0
Misc Info : 10-18446
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	PurgeVolume (mL)
Sa	0.00000	SampleAmount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.663	4.683	(0.705)	3336	4.87745	4.877
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	Compound Not Detected.					
14 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert-Butyl Ether	73	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/L)
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.613	6.633	(1.000)	122217	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.834	6.844	(1.033)	81218	55.7567	55.757(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.296	7.306	(1.103)	91370	57.3249	57.325
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.628	7.638	(1.000)	184540	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.176	9.186	(1.203)	209861	51.7555	51.756
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.774	10.794	(1.000)	153922	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.090	12.110	(1.122)	83969	46.6130	46.613
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
	69 2-Chloro Toluene	91	Compound Not Detected.					
	70 4-Chloro Toluene	91	Compound Not Detected.					
	71 T-Butyl Benzene	119	Compound Not Detected.					
	72 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	73 S-Butyl Benzene	105	Compound Not Detected.					
	74 4-Isopropyl Toluene	119	Compound Not Detected.					
	75 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	76 d4-1,4-Dichlorobenzene	152	13.457	13.467	(1.000)	71590	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.899	13.919	(1.033)	66854	51.3403	51.340
	80 1,2-Dichlorobenzene	146	Compound Not Detected.					
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
	82 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	83 Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
	84 Naphthalene	128	Compound Not Detected.					
	85 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78N.d
Lab Smp Id: RG78N
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18446

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-TB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	122217	-6.79
34 1,4-Difluorobenze	191559	95780	383118	184540	-3.66
52 d5-Chlorobenzene	161199	80600	322398	153922	-4.51
76 d4-1,4-Dichlorobe	88279	44140	176558	71590	-18.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.61	-0.30
34 1,4-Difluorobenze	7.64	7.14	8.14	7.63	-0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.77	-0.19
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: RG78N
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18446

Client SDG: RG78
Fraction: VOA
Client Smp ID: PSB10-TB
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	55.757	111.51	30-160
$ 31 d4-1,2-Dichloroeth	50.000	57.325	114.65	75-152
$ 43 d8-Toluene	50.000	51.756	103.51	82-115
$ 62 4-Bromofluorobenze	50.000	46.613	93.23	71-120
$ 79 d4-1,2-Dichloroben	50.000	51.340	102.68	80-121

Data File: /chem1/finn5.i/06AUG10.b/RG78N.d

Date : 06-AUG-2010 19:03

Client ID: PSB10-TB

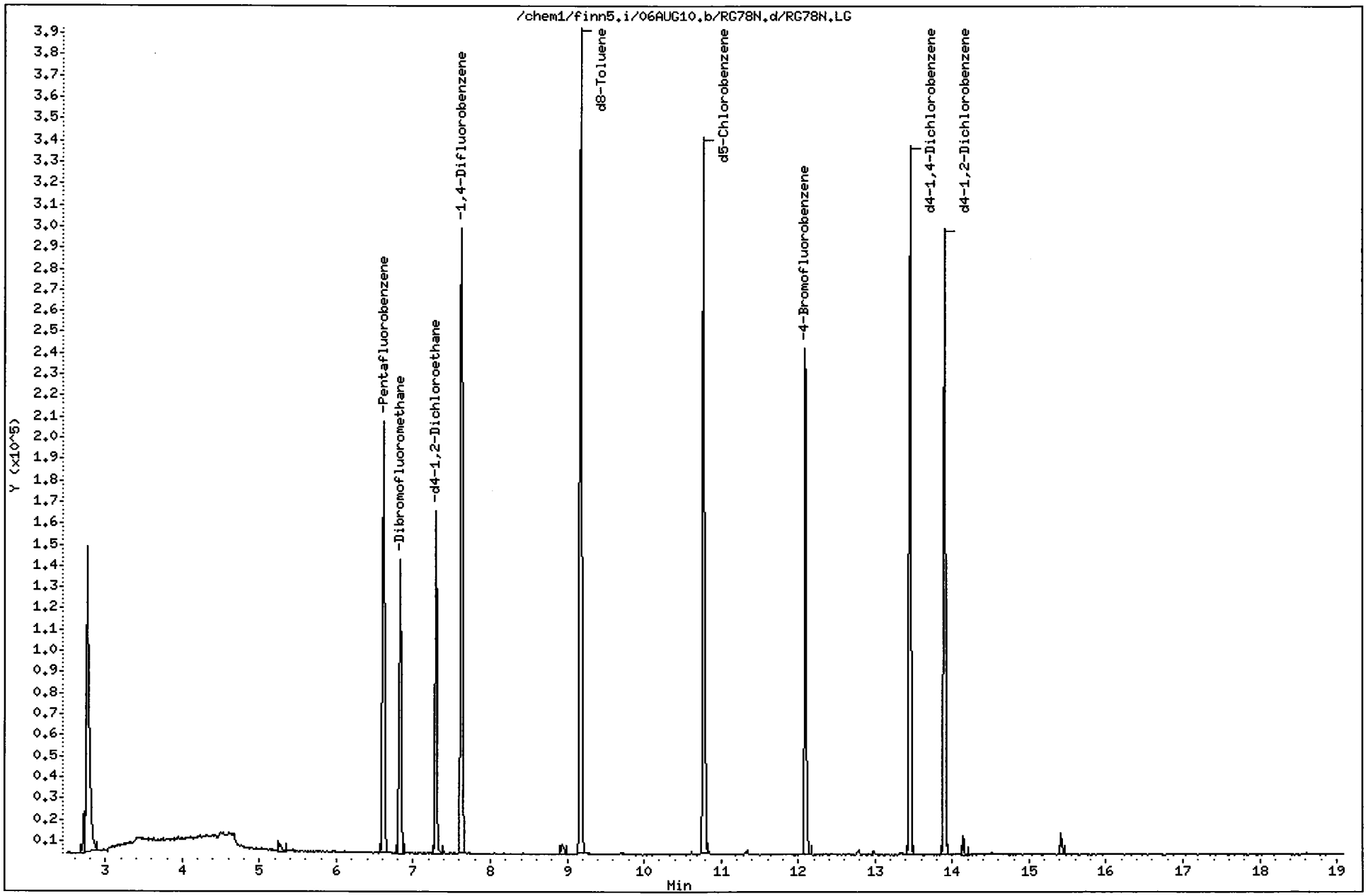
Sample Info: RG78N,5,5,0

Instrument: finn5.i

Operator: PB

Column phase: Rtx502.2

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78JMS.d
Lab Smp Id: RG78JMS Client Smp ID: PSB10-8.5-10-07 MS
Inj Date : 06-AUG-2010 19:29
Operator : PB Inst ID: finn5.i
Smp Info : RG78JMS,5,9.68,0
Misc Info : 10-18442
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.68000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	3.015	3.005	(0.455)	84951	45.9636	23.742
2 Chloromethane	50	3.327	3.306	(0.501)	222133	44.6706	23.074
3 Vinyl Chloride	62	3.427	3.427	(0.517)	194090	49.3577	25.495
4 Bromomethane	94	3.919	3.909	(0.591)	121230	56.7679	29.322
5 Chloroethane	64	3.990	3.980	(0.602)	117180	45.6308	23.570
6 Trichlorofluoromethane	101	4.251	4.241	(0.641)	172298	45.3353	23.417
7 Acrolein	56	4.643	4.633	(0.700)	52440	110.614	57.135(R)
8 112Trichloro122Trifluoroethane	101	4.653	4.643	(0.702)	133287	44.7963	23.138
9 Acetone	43	4.693	4.683	(0.708)	419698	526.163	271.78(R)
10 1,1-Dichloroethene	96	4.854	4.844	(0.732)	119986	44.4393	22.954
11 Bromoethane	108	5.065	5.065	(0.764)	97426	48.7260	25.168
12 Iodomethane	142	5.166	5.156	(0.779)	180872	56.6583	29.266
13 Methylene Chloride	84	5.286	5.276	(0.797)	138494	45.5546	23.530
14 Acrylonitrile	53	5.367	5.357	(0.809)	45014	63.9167	33.015(QR)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.407	5.397	(0.815)	181039	43.6022	22.522(Q)
	15 Carbon Disulfide	76	5.387	5.377	(0.812)	404153	48.2631	24.929
	17 Trans-1,2-Dichloroethene	96	5.568	5.558	(0.839)	98456	42.7888	22.102
	18 Vinyl Acetate	43	5.889	5.879	(0.888)	168061	41.7023	21.540
	19 1,1-Dichloroethane	63	5.950	5.940	(0.897)	193342	45.6748	23.592
	20 2-Butanone	43	6.291	6.281	(0.948)	297211	331.143	171.04(R)
	21 2,2-Dichloropropane	77	6.472	6.462	(0.976)	92303	35.6355	18.407(R)
	22 Cis-1,2-Dichloroethene	96	6.512	6.502	(0.982)	85416	42.1180	21.755(Q)
*	23 Pentafluorobenzene	168	6.633	6.633	(1.000)	142533	50.0000	
	24 Chloroform	83	6.653	6.643	(1.003)	140383	40.8283	21.089
	26 Bromochloromethane	128	6.814	6.814	(1.027)	43271	44.9400	23.213
$	25 Dibromofluoromethane	111	6.854	6.844	(1.033)	90212	53.1038	27.430(Q)
	27 1,1,1-Trichloroethane	97	7.045	7.035	(1.062)	98524	36.8411	19.030(R)
	29 1,1-Dichloropropene	75	7.186	7.176	(0.940)	105849	36.0155	18.603(R)
	30 Carbon Tetrachloride	117	7.306	7.296	(0.955)	90473	35.4003	18.285(R)
$	31 d4-1,2-Dichloroethane	65	7.316	7.306	(1.103)	103232	55.5354	28.686
	32 1,2-Dichloroethane	62	7.407	7.397	(0.968)	97575	37.8188	19.534(R)
	33 Benzene	78	7.457	7.447	(0.975)	277370	39.0288	20.160(R)
*	34 1,4-Difluorobenzene	114	7.648	7.638	(1.000)	216425	50.0000	
	35 Trichloroethene	95	8.020	8.010	(1.049)	69084	33.1785	17.138(R)
	36 1,2-Dichloropropane	63	8.181	8.171	(1.070)	80189	35.7945	18.489(R)
	37 Bromodichloromethane	83	8.412	8.412	(1.100)	81269	33.9300	17.526(R)
	39 Dibromomethane	93	8.482	8.482	(1.109)	41055	36.9176	19.069(R)
	40 2-Chloroethyl Vinyl Ether	63	8.663	8.623	(1.133)	402	0.51239	0.2647(QR)
	41 4-Methyl-2-Pentanone	58	8.663	8.663	(1.133)	138393	241.895	124.94(Q)
	42 Cis 1,3-dichloropropene	75	8.914	8.914	(1.166)	76611	29.2961	15.132(R)
$	43 d8-Toluene	98	9.196	9.186	(1.202)	235402	49.5015	25.569
	44 Toluene	92	9.276	9.276	(1.213)	127320	30.1952	15.597(R)
	45 Trans 1,3-Dichloropropene	75	9.407	9.407	(1.230)	50197	22.8366	11.796(R)
	46 2-Hexanone	43	9.547	9.537	(0.885)	261853	191.599	98.966
	47 1,1,2-Trichloroethane	97	9.588	9.588	(1.254)	43344	33.0191	17.055(R)
	48 1,3-Dichloropropane	76	9.849	9.849	(0.912)	79200	33.6579	17.385(R)
	49 Tetrachloroethene	166	9.970	9.960	(0.924)	56803	30.5809	15.796(R)
	50 Chlorodibromomethane	129	10.181	10.171	(0.943)	46065	29.1004	15.031(R)
	51 1,2-Dibromoethane	107	10.402	10.392	(1.360)	38383	27.2982	14.100(R)
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	167188	50.0000	
	53 Chlorobenzene	112	10.844	10.834	(1.005)	86009	21.9333	11.329(R)
	54 Ethyl Benzene	91	10.874	10.864	(1.007)	198724	29.9675	15.479(R)
	55 1,1,1,2-Tetrachloroethane	131	10.864	10.864	(1.007)	38058	25.3582	13.098(R)
	56 m,p-xylene	106	10.954	10.944	(1.015)	139214	57.4374	29.668(R)
	57 o-Xylene	106	11.437	11.437	(1.060)	64573	25.6341	13.241(R)
	58 Styrene	104	11.467	11.467	(1.062)	65583	16.8382	8.697(R)
	59 Isopropyl Benzene	105	11.819	11.819	(0.877)	186641	36.2073	18.702(R)
	60 Bromoform	173	11.879	11.879	(0.881)	22963	27.7063	14.311(R)
	61 1,1,2,2-Tetrachloroethane	83	12.000	11.990	(0.890)	43907	29.4830	15.229(R)
$	62 4-Bromofluorobenzene	95	12.120	12.110	(1.123)	87675	44.8084	23.145
	63 1,2,3-Trichloropropane	110	12.171	12.160	(0.903)	8523	28.8885	14.922(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.221	12.211	(0.907)	11596	25.3345	13.086(R)
66	N-Propyl Benzene	91	12.271	12.271	(0.910)	192817	28.9758	14.967(R)
67	Bromobenzene	156	12.361	12.361	(0.917)	24049	16.7354	8.644(R)
68	1,3,5-Trimethyl Benzene	105	12.452	12.442	(0.924)	125130	29.9041	15.446(R)
69	2-Chloro Toluene	91	12.502	12.502	(0.928)	103251	23.6141	12.197(R)
70	4-Chloro Toluene	91	12.552	12.542	(0.931)	79632	18.9999	9.814(R)
71	T-Butyl Benzene	119	12.854	12.854	(0.954)	131044	36.6069	18.908(R)
72	1,2,4-Trimethylbenzene	105	12.904	12.904	(0.957)	102218	24.8147	12.818(R)
73	S-Butyl Benzene	105	13.105	13.095	(0.972)	178743	30.3503	15.677(R)
74	4-Isopropyl Toluene	119	13.246	13.246	(0.983)	120691	29.8665	15.427(R)
75	1,3-Dichlorobenzene	146	13.397	13.397	(0.994)	33743	13.7442	7.099(R)
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.467	(1.000)	76577	50.0000	
77	1,4-Dichlorobenzene	146	13.517	13.507	(1.003)	30848	12.5566	6.486(R)
78	N-Butyl Benzene	91	13.728	13.718	(1.019)	104278	23.8967	12.343(R)
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.033)	68847	49.4277	25.531
80	1,2-Dichlorobenzene	146	13.959	13.949	(1.036)	29347	12.5775	6.497(R)
81	1,2-Dibromo 3-Chloropropane	75	14.864	14.854	(1.103)	4606	17.8741	9.232(R)
82	1,2,4-Trichlorobenzene	180	15.909	15.899	(1.180)	7909	5.57015	2.877(R)
83	Hexachloro 1,3-Butadiene	225	16.060	16.050	(1.192)	15551	16.2614	8.399(R)
84	Naphthalene	128	16.231	16.231	(1.204)	8863	3.44143	1.778(R)
85	1,2,3-Trichlorobenzene	180	16.522	16.522	(1.226)	6601	4.86264	2.512(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78JMS.d
Lab Smp Id: RG78JMS
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18442

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-8.5-10-07 MS
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	142533	8.71
34 1,4-Difluorobenze	191559	95780	383118	216425	12.98
52 d5-Chlorobenzene	161199	80600	322398	167188	3.72
76 d4-1,4-Dichlorobe	88279	44140	176558	76577	-13.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.63	0.00
34 1,4-Difluorobenze	7.64	7.14	8.14	7.65	0.13
52 d5-Chlorobenzene	10.79	10.29	11.29	10.79	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.48	0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG78JMS
Client Smp ID: PSB10-8.5-10-07 MS
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: MS
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18442

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	25.826	23.742	91.93	53-148
2	Chloromethane	25.826	23.074	89.34	64-125
3	Vinyl Chloride	25.826	25.495	98.72	63-137
4	Bromomethane	25.826	29.322	113.54	57-136
5	Chloroethane	25.826	23.570	91.26	64-131
6	Trichlorofluoromet	25.826	23.417	90.67	69-132
7	Acrolein	129.13	57.135	44.25*	54-137
8	112Trichloro122Tri	25.826	23.138	89.59	74-130
9	Acetone	129.13	271.78	210.47*	60-131
10	1,1-Dichloroethene	25.826	22.954	88.88	75-126
11	Bromoethane	25.826	25.168	97.45	76-126
12	Iodomethane	25.826	29.266	113.32	65-139
13	Methylene Chloride	25.826	23.530	91.11	70-123
15	Carbon Disulfide	25.826	24.929	96.53	71-129
14	Acrylonitrile	25.826	33.015	127.83*	67-125
16	Methyl tert-Butyl	25.826	22.522	87.20	70-120
17	Trans-1,2-Dichloro	25.826	22.102	85.58	80-120
18	Vinyl Acetate	25.826	21.540	83.40	60-136
19	1,1-Dichloroethane	25.826	23.592	91.35	80-120
20	2-Butanone	129.13	171.04	132.46*	70-120
21	2,2-Dichloropropan	25.826	18.407	71.27*	74-123
22	Cis-1,2-Dichloroet	25.826	21.755	84.24	80-120
24	Chloroform	25.826	21.089	81.66	80-120
26	Bromochloromethane	25.826	23.213	89.88	80-120
27	1,1,1-Trichloroeth	25.826	19.030	73.68*	77-121
29	1,1-Dichloropropen	25.826	18.603	72.03*	80-120
30	Carbon Tetrachlori	25.826	18.285	70.80*	77-122
32	1,2-Dichloroethane	25.826	19.534	75.64*	76-120
33	Benzene	25.826	20.160	78.06*	80-120
35	Trichloroethene	25.826	17.138	66.36*	80-120
36	1,2-Dichloropropan	25.826	18.489	71.59*	80-120
37	Bromodichlorometha	25.826	17.526	67.86*	77-121
39	Dibromomethane	25.826	19.069	73.84*	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	25.826	0.2647	1.02*	10-191
41 4-Methyl-2-Pentano	129.13	124.94	96.76	67-120
42 Cis 1,3-dichloropr	25.826	15.132	58.59*	74-120
44 Toluene	25.826	15.597	60.39*	80-120
45 Trans 1,3-Dichloro	25.826	11.796	45.67*	65-120
46 2-Hexanone	129.13	98.966	76.64	65-130
47 1,1,2-Trichloroeth	25.826	17.055	66.04*	80-120
48 1,3-Dichloropropan	25.826	17.385	67.32*	80-120
49 Tetrachloroethene	25.826	15.796	61.16*	80-121
50 Chlorodibromometha	25.826	15.031	58.20*	64-120
51 1,2-Dibromoethane	25.826	14.100	54.60*	75-120
53 Chlorobenzene	25.826	11.329	43.87*	80-120
55 1,1,1,2-Tetrachlor	25.826	13.098	50.72*	69-121
54 Ethyl Benzene	25.826	15.479	59.93*	80-127
56 m,p-xylene	51.653	29.668	57.44*	80-125
57 o-Xylene	25.826	13.241	51.27*	78-120
58 Styrene	25.826	8.697	33.68*	80-123
59 Isopropyl Benzene	25.826	18.702	72.41*	80-127
60 Bromoform	25.826	14.311	55.41*	60-120
61 1,1,2,2-Tetrachlor	25.826	15.229	58.97*	74-120
63 1,2,3-Trichloropro	25.826	14.922	57.78*	72-121
65 Trans-1,4-Dichloro	25.826	13.086	50.67*	65-126
66 N-Propyl Benzene	25.826	14.967	57.95*	80-132
67 Bromobenzene	25.826	8.644	33.47*	80-120
68 1,3,5-Trimethyl Be	25.826	15.446	59.81*	80-125
69 2-Chloro Toluene	25.826	12.197	47.23*	80-125
70 4-Chloro Toluene	25.826	9.814	38.00*	80-127
71 T-Butyl Benzene	25.826	18.908	73.21*	87-122
72 1,2,4-Trimethylben	25.826	12.818	49.63*	80-126
73 S-Butyl Benzene	25.826	15.677	60.70*	80-134
74 4-Isopropyl Toluen	25.826	15.427	59.73*	80-131
75 1,3-Dichlorobenzen	25.826	7.099	27.49*	80-120
77 1,4-Dichlorobenzen	25.826	6.486	25.11*	80-120
78 N-Butyl Benzene	25.826	12.343	47.79*	80-138
80 1,2-Dichlorobenzen	25.826	6.497	25.16*	80-120
81 1,2-Dibromo 3-Chlo	25.826	9.232	35.75*	59-120
82 1,2,4-Trichloroben	25.826	2.877	11.14*	78-130
83 Hexachloro 1,3-But	25.826	8.399	32.52*	76-129
84 Naphthalene	25.826	1.778	6.88*	66-120
85 1,2,3-Trichloroben	25.826	2.512	9.73*	73-123

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	53.104	106.21	30-160

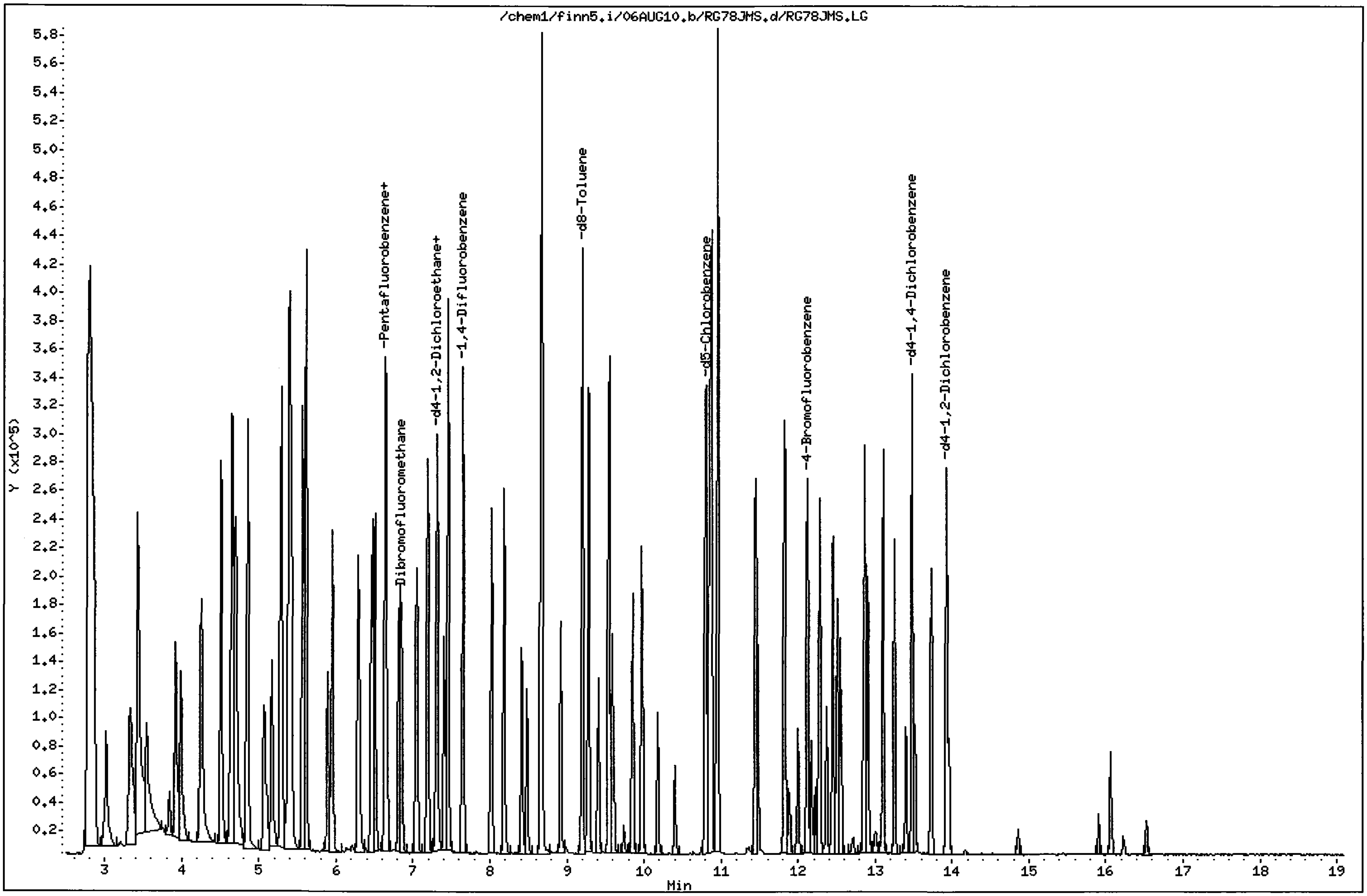
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	55.535	111.07	75-152
$ 43 d8-Toluene	50.000	49.501	99.00	82-115
$ 62 4-Bromofluorobenze	50.000	44.808	89.62	64-120
$ 79 d4-1,2-Dichloroben	50.000	49.428	98.86	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78JMS.d
Date : 06-AUG-2010 19:29
Client ID: PSB10-8.5-10-07 MS
Sample Info: RG78JMS,5,9.68,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



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8260C

Data file : /chem1/finn5.i/06AUG10.b/RG78JMSD.d
Lab Smp Id: RG78JMSD Client Smp ID: PSB10-8.5-10-07 MSD
Inj Date : 06-AUG-2010 19:56
Operator : PB Inst ID: finn5.i
Smp Info : RG78JMSD,5,9.15,0
Misc Info : 10-18442
Comment :
Method : /chem1/finn5.i/06AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:13 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.15000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	3.025	3.005	(0.457)	116371	53.7490	29.371
2 Chloromethane	50	3.347	3.306	(0.505)	257816	44.2586	24.185
3 Vinyl Chloride	62	3.437	3.427	(0.519)	214384	46.5397	25.432
4 Bromomethane	94	3.919	3.909	(0.592)	134149	53.6240	29.303
5 Chloroethane	64	3.990	3.980	(0.602)	124163	41.2740	22.554
6 Trichlorofluoromethane	101	4.251	4.241	(0.642)	172073	38.6499	21.120
7 Acrolein	56	4.633	4.633	(0.700)	42605	76.7162	41.921(R)
8 112Trichloro122Trifluoroethane	101	4.643	4.643	(0.701)	132883	38.1244	20.833
9 Acetone	43	4.693	4.683	(0.709)	360963	386.301	211.09(R)
10 1,1-Dichloroethene	96	4.844	4.844	(0.731)	116524	36.8410	20.132(R)
11 Bromoethane	108	5.065	5.065	(0.765)	83103	35.4799	19.388(R)
12 Iodomethane	142	5.166	5.156	(0.780)	104817	28.0287	15.316(R)
13 Methylene Chloride	84	5.286	5.276	(0.798)	120200	33.7509	18.443(R)
14 Acrylonitrile	53	5.367	5.357	(0.810)	32584	39.4958	21.582(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	154800	31.8263	17.391(QR)
	15 Carbon Disulfide	76	5.387	5.377	(0.813)	376814	38.4128	20.991
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	90234	33.4763	18.293(R)
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	113970	24.1414	13.192(R)
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	180708	36.4425	19.914(R)
	20 2-Butanone	43	6.281	6.281	(0.948)	216396	205.816	112.47
	21 2,2-Dichloropropane	77	6.462	6.462	(0.976)	90051	29.6780	16.217(R)
	22 Cis-1,2-Dichloroethene	96	6.502	6.502	(0.982)	72370	30.4626	16.646(R)
*	23 Pentafluorobenzene	168	6.623	6.633	(1.000)	166969	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	123011	30.5401	16.688(R)
	26 Bromochloromethane	128	6.814	6.814	(1.029)	31974	28.3474	15.490(R)
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	99974	50.2375	27.452(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.062)	93571	29.8684	16.322(R)
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	95547	29.8335	16.302(R)
	30 Carbon Tetrachloride	117	7.296	7.296	(0.955)	84517	30.3471	16.583(R)
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	106432	48.8773	26.709
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	70896	25.2159	13.779(R)
	33 Benzene	78	7.447	7.447	(0.975)	239090	30.8725	16.870(R)
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	235843	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	57362	25.2806	13.814(R)
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	64625	26.4720	14.466(R)
	37 Bromodichloromethane	83	8.402	8.412	(1.100)	59090	22.6390	12.371(R)
	39 Dibromomethane	93	8.472	8.482	(1.109)	26544	21.9037	11.969(R)
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	8.653	8.663	(1.133)	80585	129.256	70.632(QR)
	42 Cis 1,3-dichloropropene	75	8.904	8.914	(1.166)	48633	17.0661	9.326(R)
$	43 d8-Toluene	98	9.186	9.186	(1.203)	254165	49.0465	26.801
	44 Toluene	92	9.266	9.276	(1.213)	99238	21.5975	11.802(R)
	45 Trans 1,3-Dichloropropene	75	9.397	9.407	(1.230)	27692	11.5609	6.317(R)
	46 2-Hexanone	43	9.527	9.537	(0.884)	137265	93.4168	51.047(R)
	47 1,1,2-Trichloroethane	97	9.578	9.588	(1.254)	26609	18.6016	10.165(R)
	48 1,3-Dichloropropane	76	9.839	9.849	(0.912)	48151	19.0325	10.400(R)
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	46055	23.0613	12.602(R)
	50 Chlorodibromomethane	129	10.161	10.171	(0.942)	27256	16.0147	8.751(R)
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	20560	13.4185	7.332(R)
*	52 d5-Chlorobenzene	117	10.784	10.794	(1.000)	179753	50.0000	
	53 Chlorobenzene	112	10.824	10.834	(1.004)	55403	13.1408	7.181(R)
	54 Ethyl Benzene	91	10.854	10.864	(1.007)	147165	20.6411	11.279(R)
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.864	(1.007)	27285	16.9093	9.240(R)
	56 m,p-xylene	106	10.934	10.944	(1.014)	99462	38.1679	20.857(R)
	57 o-Xylene	106	11.427	11.437	(1.060)	42937	15.8536	8.663(R)
	58 Styrene	104	11.457	11.467	(1.062)	36951	8.82389	4.822(R)
	59 Isopropyl Benzene	105	11.809	11.819	(0.877)	135726	25.0928	13.712(R)
	60 Bromoform	173	11.869	11.879	(0.881)	11208	12.8877	7.042(R)
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	21229	13.5851	7.424(R)
$	62 4-Bromofluorobenzene	95	12.100	12.110	(1.122)	94458	44.9005	24.536
	63 1,2,3-Trichloropropane	110	12.150	12.160	(0.902)	4402	14.2193	7.770(QR)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.201	12.211	(0.906)	5059	10.5333	5.756(R)
66	N-Propyl Benzene	91	12.261	12.271	(0.910)	137324	19.6668	10.747(R)
67	Bromobenzene	156	12.351	12.361	(0.917)	13106	8.69172	4.750(R)
68	1,3,5-Trimethyl Benzene	105	12.432	12.442	(0.923)	82137	18.7070	10.222(R)
69	2-Chloro Toluene	91	12.492	12.502	(0.928)	60856	13.2641	7.248(R)
70	4-Chloro Toluene	91	12.532	12.542	(0.931)	48027	10.9206	5.968(R)
71	T-Butyl Benzene	119	12.844	12.854	(0.954)	89574	23.8464	13.031(R)
72	1,2,4-Trimethylbenzene	105	12.894	12.904	(0.957)	63125	14.6043	7.980(R)
73	S-Butyl Benzene	105	13.085	13.095	(0.972)	126543	20.4771	11.190(R)
74	4-Isopropyl Toluene	119	13.236	13.246	(0.983)	80369	18.9537	10.357(R)
75	1,3-Dichlorobenzene	146	13.387	13.397	(0.994)	16584	6.43755	3.518(R)
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	80353	50.0000	
77	1,4-Dichlorobenzene	146	13.497	13.507	(1.002)	14923	5.78892	3.163(R)
78	N-Butyl Benzene	91	13.708	13.718	(1.018)	67527	14.7475	8.059(R)
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.919	(1.033)	72718	49.7535	27.188
80	1,2-Dichlorobenzene	146	13.939	13.949	(1.035)	13604	5.55641	3.036(R)
81	1,2-Dibromo 3-Chloropropane	75	14.844	14.854	(1.102)	2009	7.42977	4.060(R)
82	1,2,4-Trichlorobenzene	180	15.889	15.899	(1.180)	3737	2.50821	1.371(R)
83	Hexachloro 1,3-Butadiene	225	16.040	16.050	(1.191)	10401	10.3651	5.664(R)
84	Naphthalene	128	16.221	16.231	(1.204)	4198	1.55345	0.8489(R)
85	1,2,3-Trichlorobenzene	180	16.512	16.522	(1.226)	3060	2.14823	1.174(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG78JMSD.d
Lab Smp Id: RG78JMSD
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18442

Calibration Date: 06-AUG-2010
Calibration Time: 10:17
Client Smp ID: PSB10-8.5-10-07 MSD
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	166969	27.35
34 1,4-Difluorobenze	191559	95780	383118	235843	23.12
52 d5-Chlorobenzene	161199	80600	322398	179753	11.51
76 d4-1,4-Dichlorobe	88279	44140	176558	80353	-8.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.63	6.13	7.13	6.62	-0.15
34 1,4-Difluorobenze	7.64	7.14	8.14	7.64	0.00
52 d5-Chlorobenzene	10.79	10.29	11.29	10.78	-0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78JMSD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/06AUG10.b/s8260b.m
Misc Info: 10-18442

Client SDG: RG78
Fraction: VOA
Client Smp ID: PSB10-8.5-10-07 MSD
Operator: PB
SampleType: MSD
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	27.322	29.371	107.50	53-148
2	Chloromethane	27.322	24.185	88.52	64-125
3	Vinyl Chloride	27.322	25.432	93.08	63-137
4	Bromomethane	27.322	29.303	107.25	57-136
5	Chloroethane	27.322	22.554	82.55	64-131
6	Trichlorofluoromet	27.322	21.120	77.30	69-132
7	Acrolein	136.61	41.921	30.69*	54-137
8	112Trichloro122Tri	27.322	20.833	76.25	74-130
9	Acetone	136.61	211.09	154.52*	60-131
10	1,1-Dichloroethene	27.322	20.132	73.68*	75-126
11	Bromoethane	27.322	19.388	70.96*	76-126
12	Iodomethane	27.322	15.316	56.06*	65-139
13	Methylene Chloride	27.322	18.443	67.50*	70-123
15	Carbon Disulfide	27.322	20.991	76.83	71-129
14	Acrylonitrile	27.322	21.582	78.99	67-125
16	Methyl tert-Butyl	27.322	17.391	63.65*	70-120
17	Trans-1,2-Dichloro	27.322	18.293	66.95*	80-120
18	Vinyl Acetate	27.322	13.192	48.28*	60-136
19	1,1-Dichloroethane	27.322	19.914	72.88*	80-120
20	2-Butanone	136.61	112.47	82.33	70-120
21	2,2-Dichloropropan	27.322	16.217	59.36*	74-123
22	Cis-1,2-Dichloroet	27.322	16.646	60.93*	80-120
24	Chloroform	27.322	16.688	61.08*	80-120
26	Bromochloromethane	27.322	15.490	56.69*	80-120
27	1,1,1-Trichloroeth	27.322	16.322	59.74*	77-121
29	1,1-Dichloropropen	27.322	16.302	59.67*	80-120
30	Carbon Tetrachlori	27.322	16.583	60.69*	77-122
32	1,2-Dichloroethane	27.322	13.779	50.43*	76-120
33	Benzene	27.322	16.870	61.74*	80-120
35	Trichloroethene	27.322	13.814	50.56*	80-120
36	1,2-Dichloropropan	27.322	14.466	52.94*	80-120
37	Bromodichlorometha	27.322	12.371	45.28*	77-121
39	Dibromomethane	27.322	11.969	43.81*	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Vin	27.322	0.000	*	10-191
41 4-Methyl-2-Pentano	136.61	70.632	51.70*	67-120
42 Cis 1,3-dichloropr	27.322	9.326	34.13*	74-120
44 Toluene	27.322	11.802	43.19*	80-120
45 Trans 1,3-Dichloro	27.322	6.317	23.12*	65-120
46 2-Hexanone	136.61	51.047	37.37*	65-130
47 1,1,2-Trichloroeth	27.322	10.165	37.20*	80-120
48 1,3-Dichloropropan	27.322	10.400	38.07*	80-120
49 Tetrachloroethene	27.322	12.602	46.12*	80-121
50 Chlorodibromometha	27.322	8.751	32.03*	64-120
51 1,2-Dibromoethane	27.322	7.332	26.84*	75-120
53 Chlorobenzene	27.322	7.181	26.28*	80-120
55 1,1,1,2-Tetrachlor	27.322	9.240	33.82*	69-121
54 Ethyl Benzene	27.322	11.279	41.28*	80-127
56 m,p-xylene	54.645	20.857	38.17*	80-125
57 o-Xylene	27.322	8.663	31.71*	78-120
58 Styrene	27.322	4.822	17.65*	80-123
59 Isopropyl Benzene	27.322	13.712	50.19*	80-127
60 Bromoform	27.322	7.042	25.78*	60-120
61 1,1,2,2-Tetrachlor	27.322	7.424	27.17*	74-120
63 1,2,3-Trichloropro	27.322	7.770	28.44*	72-121
65 Trans-1,4-Dichloro	27.322	5.756	21.07*	65-126
66 N-Propyl Benzene	27.322	10.747	39.33*	80-132
67 Bromobenzene	27.322	4.750	17.38*	80-120
68 1,3,5-Trimethyl Be	27.322	10.222	37.41*	80-125
69 2-Chloro Toluene	27.322	7.248	26.53*	80-125
70 4-Chloro Toluene	27.322	5.968	21.84*	80-127
71 T-Butyl Benzene	27.322	13.031	47.69*	87-122
72 1,2,4-Trimethylben	27.322	7.980	29.21*	80-126
73 S-Butyl Benzene	27.322	11.190	40.95*	80-134
74 4-Isopropyl Toluen	27.322	10.357	37.91*	80-131
75 1,3-Dichlorobenzen	27.322	3.518	12.88*	80-120
77 1,4-Dichlorobenzen	27.322	3.163	11.58*	80-120
78 N-Butyl Benzene	27.322	8.059	29.49*	80-138
80 1,2-Dichlorobenzen	27.322	3.036	11.11*	80-120
81 1,2-Dibromo 3-Chlo	27.322	4.060	14.86*	59-120
82 1,2,4-Trichloroben	27.322	1.371	5.02*	78-130
83 Hexachloro 1,3-But	27.322	5.664	20.73*	76-129
84 Naphthalene	27.322	0.8489	3.11*	66-120
85 1,2,3-Trichloroben	27.322	1.174	4.30*	73-123

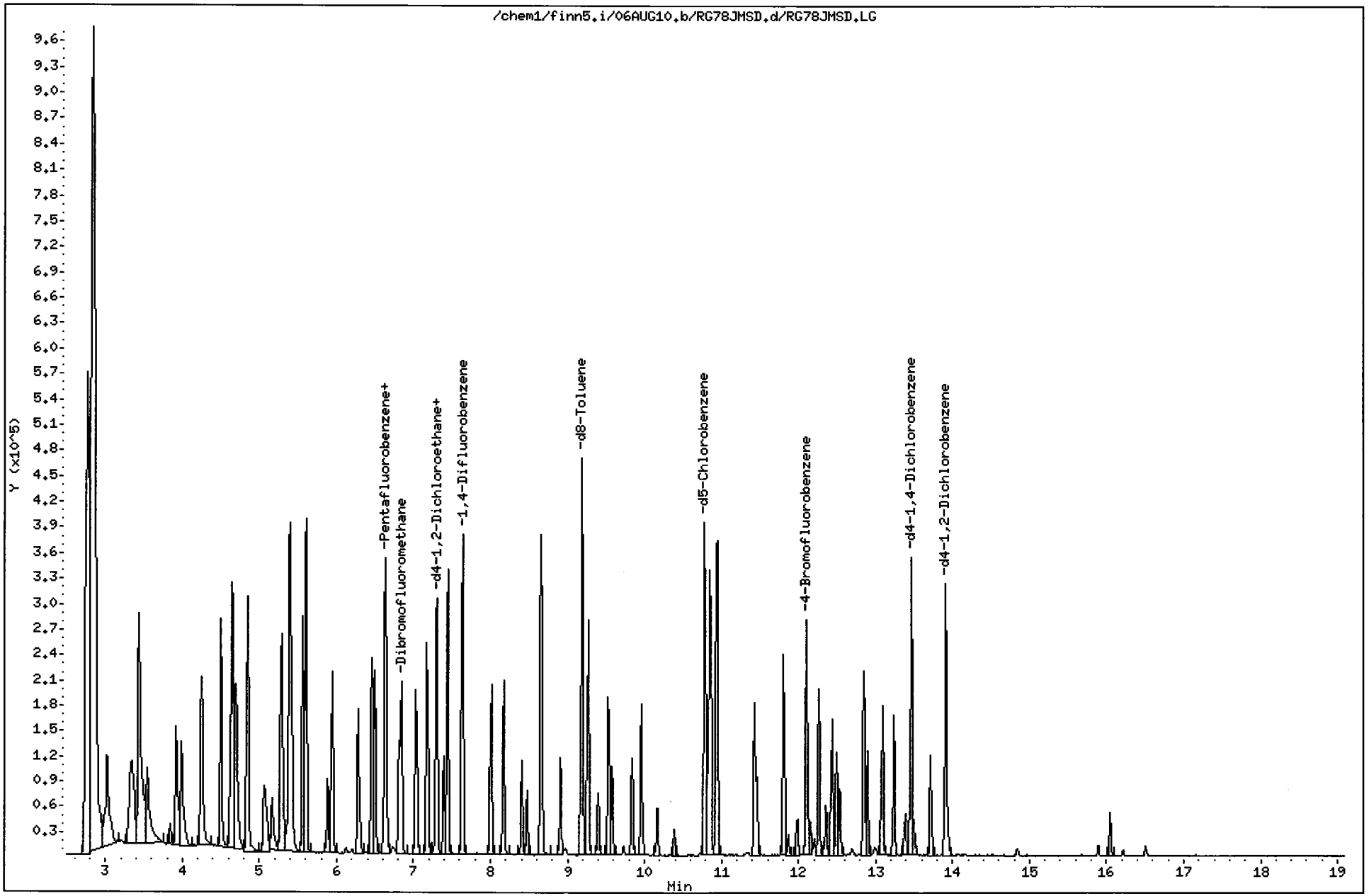
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	50.237	100.47	30-160

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	48.877	97.75	75-152
$ 43 d8-Toluene	50.000	49.046	98.09	82-115
$ 62 4-Bromofluorobenze	50.000	44.900	89.80	64-120
$ 79 d4-1,2-Dichloroben	50.000	49.753	99.51	80-120

Data File: /chem1/finn5.i/06AUG10.b/RG78JMSD.d
Date : 06-AUG-2010 19:56
Client ID: PSB10-8.5-10-07 MSD
Sample Info: RG78JMSD,5,9.15,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



RG78:00515

Semivolatile PAH Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: RG78

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

(8270) PNA-Soil/Sediment
Sonication (3550B) (SOP # 3304S)

Preparation Test PNA # 1

(24 ppb)
In-House ~~(67ppb)~~

ARI Job No(s) RG78

Batch set up by: SC

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (dry wt)	Sonic Horn ID	KD	TurboVap 1 2 3	~~(Opt)~~ SilicaGel Clean (1:1) (REQ) Y N	TurboVap 1 2 3	Final Effective Volume	Volume to Lab	Comments
	RG78 MBS	Date	~~7.50g~~ 25.73g	12					0.5mL	0.5mL	1g Actual
	SBS		↓	11					↓	↓	See notes
	SBS Dup		↓						↓	↓	
#7	RG78 A		31.77g	10							
	B		26.69g	9							
	C		27.94g	8							
	D		28.57g	7							
	E		26.22g	6							
	F		27.87g	5							
	G		27.74g	4							
	H		28.35g	3							
	I		27.47g	2							
#18	J		29.28g	1							
	J MS		29.05g	5							
	J MSD		29.66g	4							
#7	K		26.18g	3							
	L		32.68g	2							
	S		28.65g	1							SC 8/16/10
Analyst/Date		TH 8/12/10		TH	RR 8/13/10	SC 8/16/10	SC 8/16/10				

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
BAN Surrogate	A	125µL	1/22/11		TH
8270 PNA Spike	20	125µL	12/4/10		TH
Extraction Time:	14:10		Balance ID:	3804092	

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers. 2. Extract 2X with 1:1 DCM/Acetone. Plus 1 X DCM only. 3. Collect into 150mL beaker with 5-10g sodium sulfate in the bottom + small funnel with pre-rinsed neutral glasswool. NO SODIUM SULFATE. 4. KD (small drying column) to 8mL at 85-90°. 5. Exchange (2 X with 10mL) to Hexane at 100°. 6. TurboVap. 7. Silica Clean-up-Root Beer Color? (All or none) Y / N. 8. TurboVap (if Silica Clean). 9. Vial in DCM.
A. Need Total Solids Y / N B. Archive/Freeze Y / N

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RG 78 Client ID: Floyd / Snider

Parameter: 8270 PNA PSDDA Client Project: Lora Lake RI

Note problems, concerns, corrective actions	Analyst/Date
Screens: ~~Soil~~/Sediment/Solid/Other: Soil	WC 8/17/10
☒ No Anomalies (standard soil/sediment) A, C, D	↓
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☒ Rocks/Organics= Rock (B, B, F G H I J K L S)	WC 8/17/10
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☒ Other Notes/Comments=	
Filtered MB, SB, B, E, G, H, I, J, Jms, JmsD, K + S to remove particulates with 0.45µm PTFE filters.	SP 8/16/10
Sample "F" - transfer rinsed to a 40mL VOA vial and centrifuged to remove particulates	SP 8/16/10
Sample JmsD - was darker in color than J + Jms	SP 8/16/10

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Serial # 00549

REQUEST FOR RE-EXTRACTION / RE-ANALYSIS
(Organic Analyses)

Todays Date: 8/18/10
Client Name: Floyd Snider
ARI Project Number: RG78
Client Project: Lora Lake RI
Analysis: (8270) PNA
Turn Around Time: 8/11/10
Project Manager: SUE
Date Sampled: 7/30/10
Sample Matrix: Soil

Criteria Flagged

Unacceptable Blank:	☐	Unacceptable Surrogate:	☒
Unacceptable Duplicate:	☐	Instrument Problem:	☐
Unacceptable Spike:	☐	Other:	☐
Overwrite LIMS:	☐	Enter as Re-extract:	☐
Re-Extract In Holding:	☒	Sample Frozen?:	☒
Re-Extract Out of Holding:	☐	Holding Time Remaining:	☐

Details of Problem / Recommended Corrective Action

SS recovery low. Re-extract with less sample size.
15gr Dry BAB 8/19/10

Samples Affected

RG78E

Corrective Action Taken

Analyst: KZ
Date: 8/18/10

Supervisor: BM
Date: 8/18/10

PM Approval: _____
Date: _____

Form 0030F

Revision 006
3/4/10

RG78:00549

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RUSH

Organic Extractions Benchsheet
(8270) PNA Soil/ Sediment
Sonication (3550C) (SOP # 3304S)

P500A (2ppb)
~~In-House (67ppb)~~

Preparation Test PNA # 1

ARI Job No(s) RG78 (RX), RG79 (RX)

Batch set up by: JH

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (dry wt)	Sonic Horn ID + Check	KD Hex X X 2	TurboVap 1 (2) 3	SilicaGel Clean (1:1) (REQ) ~~(Opt)~~ (Y) N	TurboVap 1 (2) 3	Final Effective Volume	Volume to Lab	Comments
	RG78(RX) MBS	Date 8/24/10	~~7.50g~~ 25.25g	1					0.5mL	0.5mL	1ppb Actual
	SBS			2							
	~~SBS Dup.~~										
7	RG78(RX) E2	Checked	15.08	4							
7	RG79(RX) E2		10.10	5							
						CJZ					
Analyst/Date	WC 8/24/10					8/24/10					

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
BAN Surrogate	A	125µL	11/22/11	WC	AC
8270 PNA Spike	20	125µL	12/14/11	WC	AC
Extraction Time: 17:14			Balance ID: 24150193		

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers. 2. Extract 2X with 1:1 DCM/Acetone. Plus 1 X DCM only. 3. Collect into ~~150mL~~ 250mL beaker with 5-10g sodium sulfate in the bottom + small funnel with pre-rinsed neutral glasswool. NO SODIUM SULFATE. 4. KD (small drying column) to 8mL at 85-90°. 5. Exchange (2 X with 10mL) to Hexane at 100°. 6. TurboVap. 7. Silica Clean-up-Root Beer Color? (All or ~~none~~) (Y)/ N. 8. TurboVap (if Silica Clean). 9. Vial in DCM.
A. Need Total Solids Y /(N) B. ~~Archive~~/Freeze (Y) N

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RG78(RX)/RG79(RX) Client ID: Floyd/Snider

Parameter: 8270 PNA PSDDA Client Project: Lora lake RI

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☒ Other Notes/Comments= Re-extracted Samples at reduced	
Volumes as per laboratory director.	JH 8/24/11

Semivolatile PAH Raw Data
Initial Calibration

ARI Job ID: RG78

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: CWM Client ID: ✓

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 (NT-6) NT-8 NT11

Curve Date: 7/23/10 Analysis Start Date: 7/23/10

DFTPP Tune Meets Criteria? (YES) / NO

Internal Standard Meets Criteria? (YES) / NO

DDT Breakdown <20%? (YES) / NO / NA

Method Blank In Control? YES / NO / (NA)

Peak Tailing Factor ≤2? (YES) / NO / NA

LCS / LCSD Recovery In Control? (YES) / NO

ICal acceptable? (YES) / NO

CCal acceptable? YES / NO / (NA)

Q flag applied? YES / NO

Q flag applied? YES / NO

Surrogate Recovery in Control? (YES) / NO

Special Analysis Criteria Met? YES / NO / (NA)

Manual Integrations for ICal? (YES) / NO

Manual Integrations for Samples? Yes / NO / (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Two compounds @ linear curve fit.

Additional Details on Reverse: Yes / No

Analyst: [signature] **Date:** 07/26/10

Reviewer: [signature] **Date:** 7/26/10

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Calibration File Names:
Level 1: /chem1/nt6.i/20100723.b/07231002.D
Level 2: /chem1/nt6.i/20100723.b/07231003.D
Level 3: /chem1/nt6.i/20100723.b/07231004.D
Level 4: /chem1/nt6.i/20100723.b/07231001.D
Level 5: /chem1/nt6.i/20100723.b/07231005.D
Level 6: /chem1/nt6.i/20100723.b/07231006.D
Level 7: /chem1/nt6.i/20100723.b/07231007.D

B 07/26/10

Compound	1.000 Level 1 / 80.000 Level 7	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
186 Carbaryl	0.52977 / 0.56361	0.47325	0.61814	0.60108	0.60183	0.56738	0.56501	8.893
179 n-Decane	1.30295 / 1.01836	1.13144	1.17576	1.12634	1.10387	1.04830	1.12957	8.229
180 n-Octadecane	0.46718 / 0.32003	0.42555	0.43641	0.39738	0.36784	0.33613	0.39293	13.806
169 4-tert-Butylphenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 N,N-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 2,3-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Pentachlorobenzene	0.60186	0.53250	0.55894	0.54825	0.55050	0.53139	0.53253	0.55085	4.523
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 Butylatedhydroxytoluene	1.30909	1.21610	1.18712	1.11886	1.06955	1.02859	0.95110	1.12577	10.800
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 alpha-Terpineol	0.25182	0.24104	0.24573	0.23829	0.24115	0.23457	0.22750	0.24001	3.244
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 Acetophenone	1.84319	1.73378	1.77490	1.74051	1.72755	1.65306	1.61433	1.72676	4.371
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 1,4-Dioxane	0.59514	0.55269	0.57759	0.57316	0.57745	0.55960	0.56023	0.57084	2.532
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2,3,4,6-Tetrachlorophenol	0.36744	0.39880	0.41626	0.43155	0.44579	0.45431	0.44511	0.42275	7.341

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Triphenyl Phosphate	0.22270	0.18490	0.19777	0.23461	0.21824	0.23636	0.23491	0.21850	9.200
117 Butyl Diphenyl Phosphate	0.23132	0.20255	0.20803	0.23443	0.21391	0.22397	0.21525	0.21849	5.428
116 Dibutyl Phenyl Phosphate	0.68627	0.76192	0.76950	0.75246	0.74004	0.71386	0.67452	0.72837	5.142
115 Tributyl Phosphate	1.12856	1.13872	1.13497	1.07164	1.03189	0.98475	0.91681	1.05819	8.054
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Diphenyl Oxide	1.53546	1.31951	1.36647	1.28948	1.22753	1.16194	1.12652	1.28956	10.689
112 Biphenyl	+++++	1.59664	1.63155	1.49389	1.39001	1.27465	1.19789	1.43077	12.189

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
111 Azobenzene (1,2-DP-Hydrazine)	1.57438	1.43424	1.49821	1.42379	1.37937	1.27319	1.32256	1.41510	7.224
110 Tetrachloroguaiacol	+++++	0.14646	0.16171	0.16055	0.15529	0.15347	0.14766	0.15419	4.112
109 3,4,5-Trichloroguaiacol	+++++	0.14975	0.16112	0.15998	0.15730	0.15863	0.15358	0.15673	2.744
181 3,4,6-Trichloroguaiacol	+++++	0.46068	0.51059	0.53282	0.55514	0.56584	0.55567	0.53012	7.434
108 4,5,6-Trichloroguaiacol	+++++	0.22564	0.25405	0.25473	0.25582	0.25861	0.25789	0.25112	5.020
184 3,4-Dichloroguaiacol	+++++	0.41063	0.45682	0.46408	0.48450	0.49162	0.48416	0.46530	6.433
107 4,5-Dichloroguaiacol	+++++	0.29660	0.32878	0.32291	0.31726	0.31810	0.30860	0.31537	3.604
182 4,6-Dichloroguaiacol	+++++	0.51548	0.57045	0.56609	0.57861	0.58642	0.56693	0.56399	4.433
185 4-Chloroguaiacol	+++++	0.53454	0.56196	0.59394	0.59906	0.60299	0.58799	0.58008	4.588

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
106 Guaiacol	1.31655	1.24004	1.23299	1.18332	1.18795	1.16704	1.12217	1.20715	5.183
105 1-methylnaphthalene	0.74149	0.66501	0.67894	0.64252	0.61983	0.58074	0.55698	0.64079	9.715
151 1,2,4,5-Tetrachlorobenzene	0.80474	0.73406	0.71934	0.70252	0.69462	0.68639	0.65422	0.71370	6.648
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Phenol	1.89881	1.92806	1.75475	1.69716	1.59437	1.52833	1.53020	1.70453	9.695
4 Bis(2-Chloroethyl)ether	1.50887	1.36105	1.31022	1.31066	1.26776	1.18856	1.19962	1.30667	8.313
6 2-Chlorophenol	1.65200	1.61864	1.51267	1.47180	1.38752	1.35040	1.32343	1.47378	8.739
7 1,3-Dichlorobenzene	1.94687	1.78065	1.78276	1.72433	1.67465	1.58381	1.52440	1.71678	8.165
9 1,4-Dichlorobenzene	1.86926	1.70537	1.74943	1.70915	1.66135	1.56577	1.51292	1.68189	7.011
11 Benzyl alcohol	0.77509	0.79840	0.85212	0.82991	0.81569	0.77911	0.79833	0.80695	3.424
12 1,2-Dichlorobenzene	1.81140	1.64005	1.63637	1.54853	1.50623	1.40215	1.40328	1.56400	9.333
13 2-Methylphenol	1.38158	1.39693	1.30099	1.28263	1.22315	1.18744	1.12503	1.27111	7.847

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
14 2,2'-oxybis(1-Chloropropane)	1.56111	1.45840	1.45760	1.39900	1.35796	1.27681	1.24232	1.39331	7.980
15 4-Methylphenol	1.33792	1.43605	1.32248	1.26810	1.21133	1.13770	1.07044	1.25486	9.980
16 N-Nitroso-di-n-propylamine	0.96975	0.90964	0.92513	0.89191	0.88013	0.81864	0.79055	0.88368	6.974
17 Hexachloroethane	0.69156	0.62895	0.62970	0.61801	0.59719	0.55598	0.53161	0.60757	8.670
19 Nitrobenzene	0.49447	0.44806	0.45461	0.43234	0.41483	0.38265	0.38832	0.43075	9.139
20 Isophorone	0.74620	0.69226	0.71744	0.69327	0.67659	0.64123	0.63503	0.68600	5.768
21 2-Nitrophenol	0.24226	0.25813	0.25659	0.26172	0.25436	0.25160	0.24453	0.25274	2.824
22 2,4-Dimethylphenol	0.45174	0.45432	0.43299	0.42026	0.39913	0.38380	0.36884	0.41587	7.975
23 Bis(2-Chloroethoxy)methane	0.52038	0.47785	0.50468	0.47961	0.46835	0.44098	0.43564	0.47536	6.495

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD	
24 Benzoic acid	+++++	0.25353	0.27552	0.32032	0.32546	0.33540	0.33426	0.30742	11.190	
25 2,4-Dichlorophenol	0.37024	0.39379	0.37568	0.36588	0.35534	0.35112	0.33685	0.36413	5.069	
26 1,2,4-Trichlorobenzene	0.45200	0.40330	0.41475	0.40421	0.39011	0.36396	0.35612	0.39778	8.106	
28 Naphthalene	1.34365	1.20046	1.23378	1.14951	1.08605	0.97778	0.92143	1.13038	13.040	
29 4-Chloroaniline	0.50552	0.47709	0.49634	0.45962	0.44170	0.40294	0.38655	0.45282	10.003	
30 Hexachlorobutadiene	0.25638	0.22668	0.23442	0.23404	0.22968	0.22252	0.22014	0.23198	5.186	
31 4-Chloro-3-methylphenol	0.36042	0.36903	0.36214	0.35815	0.34753	0.33596	0.32412	0.35105	4.578	
32 2-Methylnaphthalene	0.72760	0.63815	0.66651	0.61721	0.59789	0.55861	0.53653	0.62036	10.468	
33 Hexachlorocyclopentadiene	0.20062	0.29421	0.36461	0.40146	0.41997	0.41627	0.41693	0.35915	23.148	<-

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
34 2,4,6-Trichlorophenol	0.43015	0.47052	0.46116	0.47882	0.45477	0.45554	0.45431	0.45790	3.343
35 2,4,5-Trichlorophenol	0.47628	0.47205	0.46476	0.48592	0.46888	0.47285	0.46652	0.47246	1.505
37 2-Chloronaphthalene	1.54535	1.40750	1.43034	1.34606	1.26852	1.17397	1.13390	1.32938	11.042
38 2-Nitroaniline	0.31929	0.32596	0.34177	0.33767	0.33711	0.32812	0.32675	0.33095	2.425
39 Dimethylphthalate	1.63732	1.49856	1.57686	1.53153	1.48535	1.40593	1.37278	1.50119	6.141
40 Acenaphthylene	2.38812	2.20629	2.26228	2.11737	1.97889	1.77863	1.67677	2.05833	12.636
41 2,6-Dinitrotoluene	0.32513	0.34390	0.36822	0.36347	0.36531	0.36325	0.36762	0.35670	4.543
43 3-Nitroaniline	0.32531	0.33792	0.35741	0.33779	0.31058	0.26898	0.24663	0.31209	12.886
44 Acenaphthene	1.44933	1.31145	1.35758	1.30569	1.26041	1.17354	1.13988	1.28541	8.251

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD	
45 2,4-Dinitrophenol	+++++	0.15972	0.20982	0.26548	0.28518	0.29643	0.29677	0.25223	22.113	<-
46 Dibenzofuran	1.97073	1.74217	1.82392	1.71558	1.65479	1.55243	1.49208	1.70738	9.485	
47 4-Nitrophenol	0.14465	0.19170	0.19502	0.19549	0.19673	0.18950	0.18556	0.18552	9.937	
48 2,4-Dinitrotoluene	0.41495	0.43227	0.46723	0.47394	0.48074	0.47156	0.47542	0.45944	5.510	
49 Fluorene	1.72499	1.50935	1.55160	1.46516	1.39788	1.29602	1.23768	1.45467	11.263	
50 Diethylphthalate	1.65609	1.44115	1.46874	1.35703	1.30203	1.29409	1.24820	1.39533	10.031	
51 4-Chlorophenyl-phenylether	0.77786	0.71006	0.72927	0.72419	0.71697	0.69184	0.68535	0.71936	4.228	
52 4-Nitroaniline	0.31952	0.34487	0.36113	0.34628	0.35407	0.35027	0.35598	0.34745	3.896	
53 4,6-Dinitro-2-methylphenol	+++++	0.17800	0.18906	0.20650	0.20336	0.20685	0.20459	0.19806	5.985	

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
54 N-Nitrosodiphenylamine	0.76057	0.71351	0.72399	0.68723	0.66721	0.63370	0.60826	0.68493	7.745
56 4-Bromophenyl-phenylether	0.30519	0.28523	0.29802	0.29933	0.29604	0.28568	0.28366	0.29331	2.865
57 Hexachlorobenzene	0.32868	0.30770	0.31766	0.31238	0.30543	0.29668	0.29438	0.30899	3.861
58 Pentachlorophenol	0.11687	0.16065	0.17900	0.20167	0.20189	0.20915	0.20910	0.18262	18.647
60 Phenanthrene	1.45576	1.29440	1.34343	1.25583	1.19585	1.10163	1.04929	1.24231	11.283
61 Anthracene	1.47639	1.34925	1.39267	1.32351	1.24238	1.13218	1.06711	1.28336	11.313
62 Carbazole	1.36692	1.28291	1.30155	1.20074	1.12860	1.04899	1.00778	1.19107	11.334
63 Di-n-butylphthalate	1.55627	1.55895	1.61948	1.54279	1.42773	1.30015	1.21295	1.45976	10.426
64 Fluoranthene	1.46938	1.43951	1.47419	1.40730	1.31885	1.19659	1.11705	1.34612	10.490

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65 Pyrene	1.49138	1.14703	1.19893	1.29849	1.13413	1.10935	1.05243	1.20453	12.295
67 Butylbenzylphthalate	0.59487	0.51715	0.56810	0.65458	0.58263	0.58548	0.57376	0.58237	6.979
68 Benzo(a)anthracene	1.39098	1.06661	1.10750	1.25843	1.10391	1.09815	1.06749	1.15615	10.590
70 3,3'-Dichlorobenzidine	0.44402	0.35360	0.36752	0.40197	0.35390	0.35362	0.35158	0.37517	9.396
71 Chrysene	1.33967	1.00093	1.04247	1.16040	1.03078	1.01541	0.98576	1.08220	11.749
72 bis(2-Ethylhexyl)phthalate	0.62188	0.63105	0.67615	0.66016	0.63926	0.61152	0.59845	0.63407	4.277
73 Di-n-octylphthalate	1.27928	1.13221	1.13885	1.09382	1.03609	0.97292	0.93556	1.08410	10.667
74 Benzo(b)fluoranthene	1.49258	1.30818	1.42583	1.36294	1.34299	1.22771	1.21188	1.33887	7.544
75 Benzo(k)fluoranthene	1.69142	1.56076	1.49557	1.43389	1.27991	1.16420	1.04777	1.38193	16.524

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76 Benzo(a)pyrene	1.39809	1.28696	1.36282	1.28220	1.24651	1.15033	1.10139	1.26119	8.455
78 Indeno(1,2,3-cd)pyrene	1.85894	1.70038	1.76063	1.70804	1.67153	1.58151	1.52926	1.68718	6.486
79 Dibenzo(a,h)anthracene	1.37073	1.33009	1.38098	1.33329	1.29862	1.21997	1.14185	1.29650	6.673
80 Benzo(g,h,i)perylene	1.72129	1.54055	1.57913	1.53478	1.50241	1.41521	1.36024	1.52194	7.655
90 N-Nitrosodimethylamine	0.88469	0.84172	0.89111	0.87943	0.86425	0.83117	0.84254	0.86213	2.766
91 Aniline	2.06700	2.01319	2.07738	1.99420	1.93682	1.81178	1.76492	1.95218	6.251
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Benzidine	0.45260	0.44131	0.41100	0.39901	0.33246	0.33127	0.32392	0.38451	14.241
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Retene	0.44717	0.37047	0.39056	0.44711	0.41452	0.43343	0.41808	0.41733	6.887
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Pyridine	1.33649	1.51578	1.62048	1.61940	1.61272	1.55018	1.53311	1.54116	6.500
187 Total Benzofluoranthenes	1.54483	1.34994	1.36948	1.31896	1.23716	1.13146	1.06285	1.28781	12.488
$ 1 2-Fluorophenol	1.32504	1.31481	1.36463	1.36344	1.32946	1.27501	+++++	1.32873	2.516