ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 15:31:24
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	448463	0
	Be	9	0.022	ug/L	0.015	70	2	12	55
	C	13		mg/L			5140	5806	0
	Cl	37		mg/L			2489408	2082108	3
>	Sc	45		ug/L			273386	282586	1
	V-1	51	2.370	ug/L	0.065	2	2122	34252	1
	V	51	2.345	ug/L	0.057	2	767	33289	0
	Cr	52	0.495	ug/L	0.028	5	6539	12625	1
	Cr	53	0.556	ug/L	0.011	1	305	1118	1
	Mn	55	208.332	ug/L	4.368	2	899	4196551	0
	Co	59	0.404	ug/L	0.010	2	48	6351	1
>	Ge	72		ug/L			392434	328212	0
	Ni	60	1.440	ug/L	0.053	3	47	3952	3
	Ni	62	1.147	ug/L	0.038	3	85	547	3
	Cu	63	2.248	ug/L	0.025	1	279	14183	0
	Cu	65	2.157	ug/L	0.064	2	93	6495	2
	Zn	66	2.983	ug/L	0.020	0	751	6394	0
	Zn	67	3.138	ug/L	0.061	1	145	1166	1
	Zn	68	3.213	ug/L	0.117	3	8019	11069	1
	As-1	75	2.158	ug/L	0.047	2	-39	3692	1
	As	75	2.034	ug/L	0.078	3	8849	10935	0
	Se	82	0.240	ug/L	0.027	11	-12	31	14
	Se	78	-0.189	ug/L	0.162	86	9032	7467	0
	Mo	98	1.813	ug/L	0.034	1	1392	12261	1
	Y	89		ug/L			310463	278978	0
	Kr	83		ug/L			81	67	0
>	In	115		ug/L			464469	386265	0
	Ag	107	0.025	ug/L	0.002	7	27	322	7
	Cd	111	0.046	ug/L	0.009	19	218	324	9
	Cd	114	0.023	ug/L	0.002	10	68	228	7
	Sb	121	0.106	ug/L	0.003	2	25	1176	2
	Sb	123	0.105	ug/L	0.004	3	20	877	3
	Ba	135	9.719	ug/L	0.066	0	15	24466	1
	Ba	137	9.892	ug/L	0.061	0	22	42263	0
>	Tb	159		ug/L			467702	431240	0
	Tl	205	0.006	ug/L	0.001	8	34	225	6
	Pb	208	0.559	ug/L	0.006	0	244	23692	0
	Bi	209		ug/L			375879	319552	0
	Th	232	0.096	ug/L	0.001	1	177	5953	0
	U	238	0.187	ug/L	0.003	1	29	12073	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 15:37:55
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	442193	0
	Be	9	0.016	ug/L	0.006	36	2	9	27
	C	13		mg/L			5140	6662	3
	Cl	37		mg/L			2489408	2462011	1
>	Sc	45		ug/L			273386	316855	0
	V-1	51	5.572	ug/L	0.076	1	2122	86992	1
	V	51	5.616	ug/L	0.098	1	767	88187	1
	Cr	52	2.128	ug/L	0.019	0	6539	35841	0
	Cr	53	2.518	ug/L	0.066	2	305	4432	2
	Mn	55	548.467	ug/L	3.587	0	899	12388544	0
	Co	59	0.330	ug/L	0.008	2	48	5841	2
>	Ge	72		ug/L			392434	332504	0
	Ni	60	1.223	ug/L	0.050	4	47	3405	3
	Ni	62	0.588	ug/L	0.033	5	85	319	4
	Cu	63	1.725	ug/L	0.014	0	279	11079	1
	Cu	65	0.296	ug/L	0.018	5	93	971	5
	Zn	66	0.750	ug/L	0.012	1	751	2106	1
	Zn	67	1.456	ug/L	0.040	2	145	614	2
	Zn	68	1.256	ug/L	0.079	6	8019	8522	0
	As-1	75	0.553	ug/L	0.011	2	-39	933	2
	As	75	0.303	ug/L	0.037	12	8849	8030	0
	Se	82	1.500	ug/L	0.045	3	-12	255	2
	Se	78	0.574	ug/L	0.203	35	9032	7918	0
	Mo	98	0.011	ug/L	0.002	15	1392	1250	0
	Y	89		ug/L			310463	277912	1
	Kr	83		ug/L			81	77	5
>	In	115		ug/L			464469	385553	0
	Ag	107	0.011	ug/L	0.001	8	27	152	8
	Cd	111	-0.054	ug/L	0.028	51	218	15	551
	Cd	114	0.000	ug/L	0.001	338	68	58	9
	Sb	121	0.047	ug/L	0.003	6	25	530	5
	Sb	123	0.049	ug/L	0.003	5	20	418	6
	Ba	135	9.565	ug/L	0.071	0	15	24032	0
	Ba	137	9.542	ug/L	0.079	0	22	40692	0
>	Tb	159		ug/L			467702	419790	1
	Tl	205	0.002	ug/L	0.000	23	34	79	12
	Pb	208	0.075	ug/L	0.001	1	244	3298	0
	Bi	209		ug/L			375879	305205	0
	Th	232	0.027	ug/L	0.001	2	177	1731	1
	U	238	0.045	ug/L	0.000	1	29	2852	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 E REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 15:44:27
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	424299	0
[	Be	9	0.026	ug/L	0.005	19	2	13	15
	C	13		mg/L			5140	7107	2
	Cl	37		mg/L			2489408	2424166	0
[>	Sc	45		ug/L			273386	296985	1
|	V-1	51	5.537	ug/L	0.022	0	2122	81051	1
|	V	51	5.512	ug/L	0.014	0	767	81140	1
|	Cr	52	0.610	ug/L	0.012	2	6539	14702	2
|	Cr	53	0.894	ug/L	0.032	3	305	1689	3
|	Mn	55	608.142	ug/L	4.782	0	899	12875918	2
[	Co	59	1.973	ug/L	0.016	0	48	32444	0
[>	Ge	72		ug/L			392434	325909	1
|	Ni	60	3.091	ug/L	0.060	1	47	8378	2
|	Ni	62	2.286	ug/L	0.072	3	85	1012	4
|	Cu	63	2.295	ug/L	0.042	1	279	14373	2
|	Cu	65	1.072	ug/L	0.009	0	93	3242	1
|	Zn	66	4.444	ug/L	0.101	2	751	9155	3
|	Zn	67	5.374	ug/L	0.278	5	145	1898	5
|	Zn	68	5.386	ug/L	0.096	1	8019	13922	1
|	As-1	75	11.761	ug/L	0.044	0	-39	20128	1
|	As	75	11.578	ug/L	0.104	0	8849	27325	1
|	Se	82	1.509	ug/L	0.102	6	-12	251	6
|	Se	78	1.127	ug/L	0.256	22	9032	8010	0
[	Mo	98	8.476	ug/L	0.003	0	1392	52668	1
	Y	89		ug/L			310463	280133	2
	Kr	83		ug/L			81	78	14
[>	In	115		ug/L			464469	377032	1
|	Ag	107	U 0.009	ug/L	0.001	16	27	124	12
|	Cd	111	U -0.005	ug/L	0.007	128	218	160	12
|	Cd	114	0.033	ug/L	0.004	13	68	289	12
|	Sb	121	1.735	ug/L	0.009	0	25	18432	2
|	Sb	123	1.732	ug/L	0.011	0	20	13898	1
|	Ba	135	48.476	ug/L	0.274	0	15	119060	1
[	Ba	137	48.845	ug/L	0.222	0	22	203638	1
[>	Tb	159		ug/L			467702	402339	1
|	Tl	205	0.012	ug/L	0.001	5	34	373	5
|	Pb	208	0.166	ug/L	0.001	0	244	6692	1
|	Bi	209		ug/L			375879	297062	0
|	Th	232	0.050	ug/L	0.003	6	177	2988	5
[	U	238	2.496	ug/L	0.005	0	29	150398	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 G REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 15:51:00
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	439215	1
	Be	9	0.031	ug/L	0.010	32	2	16	27
	C	13		mg/L			5140	6186	2
	Cl	37		mg/L			2489408	2111515	4
>	Sc	45		ug/L			273386	278969	3
	V-1	51	4.877	ug/L	0.115	2	2122	67278	1
	V	51	4.774	ug/L	0.103	2	767	66082	1
	Cr	52	0.498	ug/L	0.020	3	6539	12496	1
	Cr	53	0.503	ug/L	0.028	5	305	1029	5
	Mn	55	387.531	ug/L	2.016	0	899	7706106	3
	Co	59	2.157	ug/L	0.014	0	48	33303	3
>	Ge	72		ug/L			392434	318802	1
	Ni	60	2.359	ug/L	0.036	1	47	6265	3
	Ni	62	2.139	ug/L	0.069	3	85	930	1
	Cu	63	2.199	ug/L	0.007	0	279	13480	2
	Cu	65	2.089	ug/L	0.017	0	93	6112	1
	Zn	66	3.908	ug/L	0.076	1	751	7947	2
	Zn	67	4.487	ug/L	0.082	1	145	1569	2
	Zn	68	4.698	ug/L	0.082	1	8019	12711	2
	As-1	75	4.451	ug/L	0.036	0	-39	7431	1
	As	75	4.529	ug/L	0.082	1	8849	14831	0
	Se	82	0.326	ug/L	0.002	0	-12	45	2
	Se	78	0.749	ug/L	0.182	24	9032	7668	0
	Mo	98	2.847	ug/L	0.050	1	1392	18060	2
	Y	89		ug/L			310463	275476	2
	Kr	83		ug/L			81	70	0
>	In	115		ug/L			464469	376126	2
	Ag	107	0.009	ug/L	0.002	16	27	130	11
	Cd	111	0.035	ug/L	0.002	4	218	280	4
	Cd	114	0.022	ug/L	0.001	5	68	211	4
	Sb	121	0.132	ug/L	0.004	2	25	1416	3
	Sb	123	0.132	ug/L	0.003	2	20	1071	4
	Ba	135	28.318	ug/L	0.083	0	15	69391	2
	Ba	137	28.364	ug/L	0.231	0	22	117972	2
>	Tb	159		ug/L			467702	413629	1
	Tl	205	0.011	ug/L	0.001	6	34	355	6
	Pb	208	0.333	ug/L	0.003	0	244	13617	1
	Bi	209		ug/L			375879	312967	2
	Th	232	0.088	ug/L	0.003	3	177	5276	3
	U	238	0.308	ug/L	0.001	0	29	19105	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 H REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 15:57:33
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	425176	0
[	Be	9	0.005	ug/L	0.006	130	2	4	56
	C	13		mg/L			5140	5910	1
	Cl	37		mg/L			2489408	2080374	3
[>	Sc	45		ug/L			273386	264007	0
|	V-1	51	1.373	ug/L	0.019	1	2122	19401	1
|	V	51	1.353	ug/L	0.022	1	767	18265	1
|	Cr	52	0.137	ug/L	0.011	8	6539	7837	2
|	Cr	53	0.169	ug/L	0.027	16	305	522	7
|	Mn	55	209.074	ug/L	1.281	0	899	3935229	0
[	Co	59	0.357	ug/L	0.012	3	48	5261	2
[>	Ge	72		ug/L			392434	310223	0
|	Ni	60	1.214	ug/L	0.007	0	47	3154	0
|	Ni	62	0.679	ug/L	0.051	7	85	333	6
|	Cu	63	0.651	ug/L	0.006	0	279	4040	0
|	Cu	65	0.575	ug/L	0.009	1	93	1691	2
|	Zn	66	9.091	ug/L	0.203	2	751	17203	1
|	Zn	67	8.271	ug/L	0.374	4	145	2718	3
|	Zn	68	9.425	ug/L	0.086	0	8019	18435	0
|	As-1	75	1.881	ug/L	0.012	0	-39	3038	0
|	As	75	2.018	ug/L	0.056	2	8849	10309	0
|	Se	82	0.304	ug/L	0.017	5	-12	40	6
|	Se	78	0.887	ug/L	0.182	20	9032	7522	0
[	Mo	98	1.980	ug/L	0.013	0	1392	12555	1
	Y	89		ug/L			310463	252393	0
	Kr	83		ug/L			81	68	1
[>	In	115		ug/L			464469	364207	1
|	Ag	107	0.003	ug/L	0.001	52	27	51	30
|	Cd	111	0.004	ug/L	0.004	104	218	182	6
|	Cd	114	0.002	ug/L	0.001	48	68	66	7
|	Sb	121	0.118	ug/L	0.002	1	25	1226	0
|	Sb	123	0.124	ug/L	0.005	4	20	979	3
|	Ba	135	6.389	ug/L	0.187	2	15	15166	2
[	Ba	137	6.483	ug/L	0.045	0	22	26122	1
[>	Tb	159		ug/L			467702	401621	0
|	Tl	205	0.003	ug/L	0.000	8	34	107	6
|	Pb	208	0.026	ug/L	0.001	2	244	1216	2
|	Bi	209		ug/L			375879	299682	0
|	Th	232	0.010	ug/L	0.001	5	177	711	3
[	U	238	0.148	ug/L	0.002	1	29	8930	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 16:04:07
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	448918	0
	Be	9	48.126	ug/L	0.586	1	2	21520	1
	C	13		mg/L			5140	3698	1
	Cl	37		mg/L			2489408	2156199	0
>	Sc	45		ug/L			273386	225535	0
	V-1	51	50.797	ug/L	0.353	0	2122	550307	0
	V	51	50.543	ug/L	0.342	0	767	559818	0
	Cr	52	50.514	ug/L	0.300	0	6539	483000	1
	Cr	53	49.754	ug/L	0.468	0	305	57620	1
	Mn	55	50.436	ug/L	0.282	0	899	811563	0
	Co	59	50.708	ug/L	0.332	0	48	632154	0
>	Ge	72		ug/L			392434	318935	0
	Ni	60	51.395	ug/L	0.727	1	47	135707	1
	Ni	62	50.598	ug/L	0.933	1	85	20447	1
	Cu	63	50.905	ug/L	0.513	1	279	307184	1
	Cu	65	50.541	ug/L	0.271	0	93	146182	1
	Zn	66	51.344	ug/L	0.205	0	751	97048	0
	Zn	67	50.378	ug/L	0.587	1	145	16428	1
	Zn	68	50.406	ug/L	0.427	0	8019	73029	0
	As-1	75	50.565	ug/L	0.389	0	-39	84794	0
	As	75	50.417	ug/L	0.392	0	8849	92325	0
	Se	82	52.937	ug/L	0.290	0	-12	8986	0
	Se	78	52.324	ug/L	0.376	0	9032	30531	0
	Mo	98	51.400	ug/L	0.435	0	1392	306826	0
	Y	89		ug/L			310463	257814	0
	Kr	83		ug/L			81	80	2
>	In	115		ug/L			464469	376844	0
	Ag	107	50.290	ug/L	0.428	0	27	587410	0
	Cd	111	50.464	ug/L	0.431	0	218	151799	1
	Cd	114	51.120	ug/L	0.564	1	68	366638	0
	Sb	121	50.660	ug/L	0.517	1	25	537412	0
	Sb	123	50.954	ug/L	0.922	1	20	408210	1
	Ba	135	50.251	ug/L	0.139	0	15	123361	0
	Ba	137	50.710	ug/L	0.621	1	22	211295	0
>	Tb	159		ug/L			467702	423252	0
	Tl	205	44.400	ug/L	0.260	0	34	1348192	0
	Pb	208	46.065	ug/L	0.234	0	244	1897283	0
	Bi	209		ug/L			375879	318207	0
	Th	232	47.702	ug/L	0.608	1	177	2832828	0
	U	238	48.483	ug/L	0.087	0	29	3073340	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 16:11:19
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	473957	1
[	Be	9	-0.001	ug/L	0.000	8	2	2	
	C	13		mg/L			5140	3799	4
	Cl	37		mg/L			2489408	2243630	0
[>	Sc	45		ug/L			273386	236729	0
	V-1	51	0.009	ug/L	0.007	83	2122	1939	4
	V	51	-0.009	ug/L	0.004	42	767	555	8
	Cr	52	-0.002	ug/L	0.008	432	6539	5643	1
	Cr	53	-0.057	ug/L	0.020	34	305	195	12
	Mn	55	0.012	ug/L	0.002	18	899	982	3
[	Co	59	0.005	ug/L	0.001	15	48	103	8
[>	Ge	72		ug/L			392434	332766	0
	Ni	60	0.002	ug/L	0.002	86	47	45	10
	Ni	62	-0.012	ug/L	0.004	32	85	67	2
	Cu	63	-0.004	ug/L	0.002	39	279	208	4
	Cu	65	-0.001	ug/L	0.005	728	93	77	19
	Zn	66	-0.248	ug/L	0.006	2	751	150	8
	Zn	67	-0.195	ug/L	0.020	10	145	57	11
	Zn	68	-0.554	ug/L	0.021	3	8019	6037	0
	As-1	75	-0.004	ug/L	0.003	66	-39	-40	12
	As	75	0.009	ug/L	0.047	522	8849	7519	0
	Se	82	0.037	ug/L	0.023	61	-12	-4	97
	Se	78	0.086	ug/L	0.161	188	9032	7698	0
[	Mo	98	-0.172	ug/L	0.002	1	1392	115	11
	Y	89		ug/L			310463	273503	0
	Kr	83		ug/L			81	69	0
[>	In	115		ug/L			464469	402688	0
	Ag	107	0.010	ug/L	0.002	15	27	149	12
	Cd	111	0.001	ug/L	0.001	57	218	192	1
	Cd	114	-0.003	ug/L	0.000	8	68	34	6
	Sb	121	0.013	ug/L	0.003	25	25	173	21
	Sb	123	0.013	ug/L	0.003	24	20	127	20
	Ba	135	0.004	ug/L	0.001	17	15	24	7
[	Ba	137	0.006	ug/L	0.003	53	22	45	30
[>	Tb	159		ug/L			467702	437466	0
	Tl	205	0.004	ug/L	0.001	13	34	170	10
	Pb	208	0.004	ug/L	0.001	19	244	412	8
	Bi	209		ug/L			375879	337720	0
	Th	232	0.036	ug/L	0.003	7	177	2401	7
[	U	238	0.005	ug/L	0.001	12	29	364	11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 ADUP REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 10, 2011 16:18:32
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			477376	459630	0
[	**Be**	**9**	**0.000**	ug/L	0.006	2653	2	2	89
	C	**13**		mg/L			5140	4097	1
	Cl	**37**		mg/L			2489408	2208980	0
[>	**Sc**	**45**		ug/L			273386	236133	1
|	**V-1**	**51**	**0.098**	ug/L	0.005	5	2122	2936	2
|	**V**	**51**	**0.079**	ug/L	0.004	5	767	1574	3
|	**Cr**	**52**	**0.047**	ug/L	0.017	36	6539	6112	2
|	**Cr**	**53**	**-0.007**	ug/L	0.015	204	305	255	5
|	**Mn**	**55**	**16.917**	ug/L	0.199	1	899	285494	0
[	**Co**	**59**	**0.027**	ug/L	0.001	4	48	399	3
[>	**Ge**	**72**		ug/L			392434	332632	0
|	**Ni**	**60**	**0.101**	ug/L	0.016	15	47	319	13
|	**Ni**	**62**	**0.047**	ug/L	0.027	58	85	92	12
|	**Cu**	**63**	**1.336**	ug/L	0.029	2	279	8637	1
|	**Cu**	**65**	**1.311**	ug/L	0.026	1	93	4031	1
|	**Zn**	**66**	**1.784**	ug/L	0.052	2	751	4131	1
|	**Zn**	**67**	**1.516**	ug/L	0.127	8	145	634	6
|	**Zn**	**68**	**1.469**	ug/L	0.060	4	8019	8818	0
|	**As-1**	**75**	**167.446**	ug/L	1.420	0	-39	292923	0
|	**As**	**75**	**166.376**	ug/L	1.434	0	8849	300498	0
|	**Se**	**82**	**0.072**	ug/L	0.044	60	-12	2	364
|	**Se**	**78**	**0.141**	ug/L	0.198	139	9032	7720	0
[	**Mo**	**98**	**-0.036**	ug/L	0.012	31	1392	954	6
	Y	**89**		ug/L			310463	271716	1
	Kr	**83**		ug/L			81	65	6
[>	**In**	**115**		ug/L			464469	399568	0
|	**Ag**	**107**	**0.003**	ug/L	0.000	13	27	57	7
|	**Cd**	**111**	**0.005**	ug/L	0.002	40	218	204	3
|	**Cd**	**114**	**0.001**	ug/L	0.001	111	68	65	10
|	**Sb**	**121**	**0.016**	ug/L	0.002	14	25	198	12
|	**Sb**	**123**	**0.015**	ug/L	0.001	6	20	143	5
|	**Ba**	**135**	**0.038**	ug/L	0.001	3	15	112	3
[	**Ba**	**137**	**0.037**	ug/L	0.001	3	22	181	3
[>	**Tb**	**159**		ug/L			467702	438803	1
|	**Tl**	**205**	**0.002**	ug/L	0.000	22	34	81	14
|	**Pb**	**208**	**0.014**	ug/L	0.001	5	244	826	2
|	**Bi**	**209**		ug/L			375879	333888	0
|	**Th**	**232**	**0.010**	ug/L	0.001	5	177	769	4
[	**U**	**238**	**0.002**	ug/L	0.000	21	29	136	16

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 A REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 10, 2011 16:25:06
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	456850	1
[	Be	9	-0.001	ug/L	0.003	417	2	2	50
	C	13		mg/L			5140	4104	1
	Cl	37		mg/L			2489408	2202496	0
[>	Sc	45		ug/L			273386	235970	0
[	V-1	51	0.099	ug/L	0.003	3	2122	2952	0
[	V	51	0.077	ug/L	0.004	4	767	1554	1
[	Cr	52	0.046	ug/L	0.013	29	6539	6098	1
[	Cr	53	-0.018	ug/L	0.016	88	305	242	7
[	Mn	55	16.616	ug/L	0.234	1	899	280246	0
[	Co	59	0.025	ug/L	0.001	2	48	370	2
[>	Ge	72		ug/L			392434	326531	1
[	Ni	60	0.102	ug/L	0.006	6	47	315	6
[	Ni	62	0.035	ug/L	0.029	83	85	85	14
[	Cu	63	1.273	ug/L	0.007	0	279	8092	0
[	Cu	65	1.245	ug/L	0.029	2	93	3763	2
[	Zn	66	1.784	ug/L	0.023	1	751	4054	0
[	Zn	67	1.561	ug/L	0.096	6	145	638	3
[	Zn	68	1.504	ug/L	0.168	11	8019	8703	1
[	As-1	75	165.701	ug/L	1.613	0	-39	284543	0
[	As	75	164.768	ug/L	1.687	1	8849	292197	0
[	Se	82	0.066	ug/L	0.034	51	-12	1	580
[	Se	78	0.603	ug/L	0.299	49	9032	7788	0
[	Mo	98	-0.044	ug/L	0.004	9	1392	892	1
	Y	89		ug/L			310463	269069	1
	Kr	83		ug/L			81	62	3
[>	In	115		ug/L			464469	395142	0
[	Ag	107	0.002	ug/L	0.000	10	27	52	6
[	Cd	111	0.007	ug/L	0.003	43	218	206	4
[	Cd	114	0.001	ug/L	0.002	196	68	64	17
[	Sb	121	0.013	ug/L	0.000	0	25	161	0
[	Sb	123	0.013	ug/L	0.001	3	20	125	3
[	Ba	135	0.032	ug/L	0.001	3	15	94	3
[	Ba	137	0.034	ug/L	0.006	18	22	168	16
[>	Tb	159		ug/L			467702	432869	0
[	Tl	205	0.001	ug/L	0.000	11	34	52	4
[	Pb	208	0.011	ug/L	0.001	7	244	695	4
[	Bi	209		ug/L			375879	329742	0
[	Th	232	0.005	ug/L	0.000	8	177	469	5
[	U	238	0.001	ug/L	0.000	12	29	95	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 ASPK REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 10, 2011 16:31:40
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	462882	0
[	Be	9	0.991	ug/L	0.041	4	2	459	5
	C	13		mg/L			5140	4104	2
	Cl	37		mg/L			2489408	2210656	0
[>	Sc	45		ug/L			273386	239302	1
[	V-1	51	1.111	ug/L	0.017	1	2122	14587	0
[	V	51	1.092	ug/L	0.015	1	767	13492	0
[	Cr	52	1.069	ug/L	0.015	1	6539	16448	1
[	Cr	53	1.014	ug/L	0.028	2	305	1508	2
[	Mn	55	18.100	ug/L	0.173	0	899	309547	1
[	Co	59	1.074	ug/L	0.015	1	48	14246	1
[>	Ge	72		ug/L			392434	332892	0
[	Ni	60	1.170	ug/L	0.022	1	47	3262	0
[	Ni	62	1.141	ug/L	0.039	3	85	552	3
[	Cu	63	2.371	ug/L	0.044	1	279	15156	1
[	Cu	65	2.378	ug/L	0.027	1	93	7253	0
[	Zn	66	5.083	ug/L	0.077	1	751	10602	1
[	Zn	67	4.515	ug/L	0.265	5	145	1648	5
[	Zn	68	4.755	ug/L	0.180	3	8019	13351	2
[	As-1	75	172.545	ug/L	1.300	0	-39	302077	0
[	As	75	171.441	ug/L	1.354	0	8849	309659	0
[	Se	82	3.572	ug/L	0.126	3	-12	622	3
[	Se	78	3.561	ug/L	0.311	8	9032	9308	0
[	Mo	98	-0.044	ug/L	0.001	3	1392	909	1
	Y	89		ug/L			310463	274619	0
	Kr	83		ug/L			81	67	8
[>	In	115		ug/L			464469	402080	0
[	Ag	107	0.759	ug/L	0.009	1	27	9480	1
[	Cd	111	1.058	ug/L	0.016	1	218	3579	1
[	Cd	114	1.044	ug/L	0.012	1	68	8047	1
[	Sb	121	0.012	ug/L	0.002	15	25	152	13
[	Sb	123	0.011	ug/L	0.003	25	20	111	21
[	Ba	135	1.044	ug/L	0.018	1	15	2748	1
[	Ba	137	1.069	ug/L	0.010	0	22	4770	1
[>	Tb	159		ug/L			467702	441974	0
[	Tl	205	0.930	ug/L	0.005	0	34	29526	0
[	Pb	208	0.953	ug/L	0.004	0	244	41202	0
[	Bi	209		ug/L			375879	336849	0
[	Th	232	0.882	ug/L	0.009	1	177	54881	0
[	U	238	0.932	ug/L	0.010	1	29	61695	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 KDUP REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 10, 2011 16:38:15
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	473329	1
[	Be	9	-0.003	ug/L	0.005	132	2	1	173
	C	13		mg/L			5140	4009	0
	Cl	37		mg/L			2489408	2235142	0
[>	Sc	45		ug/L			273386	243038	1
|	V-1	51	0.084	ug/L	0.008	9	2122	2862	1
|	V	51	0.067	ug/L	0.006	9	767	1485	4
|	Cr	52	0.039	ug/L	0.020	52	6539	6209	1
|	Cr	53	-0.008	ug/L	0.016	190	305	261	6
|	Mn	55	17.317	ug/L	0.328	1	899	300730	0
[	Co	59	0.025	ug/L	0.001	4	48	380	2
[>	Ge	72		ug/L			392434	340311	0
|	Ni	60	0.092	ug/L	0.008	8	47	299	8
|	Ni	62	0.013	ug/L	0.040	311	85	80	21
|	Cu	63	0.134	ug/L	0.003	1	279	1104	0
|	Cu	65	0.121	ug/L	0.010	8	93	453	6
|	Zn	66	1.499	ug/L	0.017	1	751	3656	1
|	Zn	67	1.200	ug/L	0.078	6	145	540	4
|	Zn	68	1.123	ug/L	0.049	4	8019	8535	1
|	As-1	75	156.450	ug/L	0.971	0	-39	280005	0
|	As	75	155.388	ug/L	0.999	0	8849	287642	0
|	Se	82	0.089	ug/L	0.060	68	-12	5	211
|	Se	78	-0.104	ug/L	0.119	114	9032	7783	0
[	Mo	98	-0.055	ug/L	0.003	6	1392	858	2
	Y	89		ug/L			310463	276389	0
	Kr	83		ug/L			81	63	15
[>	In	115		ug/L			464469	408689	0
|	Ag	107	0.002	ug/L	0.001	33	27	55	19
|	Cd	111	-0.004	ug/L	0.005	138	218	180	9
|	Cd	114	-0.005	ug/L	0.001	23	68	22	38
|	Sb	121	0.009	ug/L	0.002	18	25	130	15
|	Sb	123	0.010	ug/L	0.002	23	20	105	19
|	Ba	135	0.030	ug/L	0.002	6	15	93	6
[	Ba	137	0.033	ug/L	0.001	1	22	168	1
[>	Tb	159		ug/L			467702	448225	1
|	Tl	205	0.000	ug/L	0.000	52	34	48	17
|	Pb	208	0.004	ug/L	0.000	9	244	396	4
|	Bi	209		ug/L			375879	340862	0
|	Th	232	0.004	ug/L	0.001	13	177	427	7
[	U	238	0.001	ug/L	0.000	25	29	80	17

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 K REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 10, 2011 16:44:51
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	464760	0
[	Be	9	-0.002	ug/L	0.006	348	2	2	124
	C	13		mg/L			5140	4063	4
	Cl	37		mg/L			2489408	2225955	0
[>	Sc	45		ug/L			273386	242591	0
[	V-1	51	0.084	ug/L	0.005	5	2122	2863	1
[	V	51	0.067	ug/L	0.001	2	767	1478	0
[	Cr	52	0.028	ug/L	0.008	27	6539	6091	0
[	Cr	53	-0.021	ug/L	0.006	28	305	245	3
[	Mn	55	16.440	ug/L	0.064	0	899	285086	1
[	Co	59	0.025	ug/L	0.001	4	48	375	3
[>	Ge	72		ug/L			392434	333480	0
[	Ni	60	0.101	ug/L	0.005	4	47	318	4
[	Ni	62	0.043	ug/L	0.031	71	85	91	14
[	Cu	63	0.134	ug/L	0.003	2	279	1083	2
[	Cu	65	0.113	ug/L	0.002	2	93	422	1
[	Zn	66	2.074	ug/L	0.070	3	751	4712	3
[	Zn	67	1.838	ug/L	0.013	0	145	745	0
[	Zn	68	1.735	ug/L	0.083	4	8019	9208	1
[	As-1	75	151.411	ug/L	1.219	0	-39	265557	0
[	As	75	150.487	ug/L	1.231	0	8849	273225	0
[	Se	82	0.049	ug/L	0.050	100	-12	-1	460
[	Se	78	0.267	ug/L	0.076	28	9032	7799	0
[	Mo	98	-0.049	ug/L	0.012	24	1392	879	8
	Y	89		ug/L			310463	273746	1
	Kr	83		ug/L			81	64	4
[>	In	115		ug/L			464469	404606	1
[	Ag	107	0.001	ug/L	0.000	26	27	35	8
[	Cd	111	-0.000	ug/L	0.007	36539	218	189	12
[	Cd	114	-0.005	ug/L	0.001	13	68	20	25
[	Sb	121	0.011	ug/L	0.001	12	25	146	10
[	Sb	123	0.011	ug/L	0.000	3	20	109	4
[	Ba	135	0.030	ug/L	0.005	15	15	92	12
[	Ba	137	0.031	ug/L	0.004	13	22	159	11
[>	Tb	159		ug/L			467702	437005	0
[	Tl	205	0.000	ug/L	0.000	169	34	36	18
[	Pb	208	0.004	ug/L	0.000	4	244	392	1
[	Bi	209		ug/L			375879	337332	1
[	Th	232	0.002	ug/L	0.000	13	177	284	5
[	U	238	0.001	ug/L	0.000	12	29	82	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 KSPK REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 10, 2011 16:51:27
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	471278	0
[	Be	9	0.973	ug/L	0.033	3	2	459	3
	C	13		mg/L			5140	4072	1
	Cl	37		mg/L			2489408	2236705	0
[>	Sc	45		ug/L			273386	245757	1
[	V-1	51	1.084	ug/L	0.013	1	2122	14671	2
[	V	51	1.076	ug/L	0.006	0	767	13662	1
[	Cr	52	1.046	ug/L	0.012	1	6539	16651	1
[	Cr	53	1.023	ug/L	0.026	2	305	1559	1
[	Mn	55	18.142	ug/L	0.221	1	899	318593	0
[	Co	59	1.057	ug/L	0.009	0	48	14402	0
[>	Ge	72		ug/L			392434	341773	0
[	Ni	60	1.182	ug/L	0.026	2	47	3384	1
[	Ni	62	1.038	ug/L	0.037	3	85	522	3
[	Cu	63	1.233	ug/L	0.016	1	279	8208	0
[	Cu	65	1.184	ug/L	0.018	1	93	3750	1
[	Zn	66	4.871	ug/L	0.075	1	751	10458	1
[	Zn	67	4.231	ug/L	0.209	4	145	1594	4
[	Zn	68	4.474	ug/L	0.159	3	8019	13310	1
[	As-1	75	157.877	ug/L	0.845	0	-39	283778	0
[	As	75	156.834	ug/L	0.893	0	8849	291497	0
[	Se	82	3.514	ug/L	0.149	4	-12	629	4
[	Se	78	3.367	ug/L	0.113	3	9032	9465	0
[	Mo	98	-0.056	ug/L	0.005	9	1392	857	3
	Y	89		ug/L			310463	280349	0
	Kr	83		ug/L			81	69	6
[>	In	115		ug/L			464469	413497	0
[	Ag	107	0.693	ug/L	0.012	1	27	8911	1
[	Cd	111	1.041	ug/L	0.007	0	218	3625	0
[	Cd	114	1.030	ug/L	0.025	2	68	8162	1
[	Sb	121	0.008	ug/L	0.001	10	25	117	8
[	Sb	123	0.010	ug/L	0.000	3	20	105	2
[	Ba	135	1.035	ug/L	0.002	0	15	2802	0
[	Ba	137	1.037	ug/L	0.032	3	22	4759	2
[>	Tb	159		ug/L			467702	450947	0
[	Tl	205	0.926	ug/L	0.009	0	34	30000	0
[	Pb	208	0.964	ug/L	0.005	0	244	42549	0
[	Bi	209		ug/L			375879	344854	0
[	Th	232	0.915	ug/L	0.012	1	177	58050	0
[	U	238	0.943	ug/L	0.006	0	29	63742	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 B REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 10, 2011 16:58:03
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	**Li**	**6**		ug/L			477376	470909	0
	Be	**9**	**-0.002**	ug/L	0.003	179	2	2	69
	C	**13**		mg/L			5140	4431	2
	Cl	**37**		mg/L			2489408	2246388	0
>	**Sc**	**45**		ug/L			273386	245012	0
	V-1	**51**	**0.098**	ug/L	0.003	3	2122	3051	1
	V	**51**	**0.081**	ug/L	0.002	2	767	1663	1
	Cr	**52**	**0.041**	ug/L	0.019	47	6539	6283	2
	Cr	**53**	**-0.006**	ug/L	0.016	262	305	266	6
	Mn	**55**	**17.521**	ug/L	0.123	0	899	306800	0
	Co	**59**	**0.027**	ug/L	0.004	13	48	405	12
>	**Ge**	**72**		ug/L			392434	336745	0
	Ni	**60**	**0.129**	ug/L	0.025	19	47	399	17
	Ni	**62**	**0.021**	ug/L	0.019	91	85	82	9
	Cu	**63**	**1.304**	ug/L	0.039	2	279	8544	2
	Cu	**65**	**1.238**	ug/L	0.022	1	93	3859	1
	Zn	**66**	**1.925**	ug/L	0.010	0	751	4461	0
	Zn	**67**	**1.749**	ug/L	0.110	6	145	722	4
	Zn	**68**	**1.627**	ug/L	0.080	4	8019	9149	1
	As-1	**75**	**172.077**	ug/L	0.921	0	-39	304758	0
	As	**75**	**171.019**	ug/L	0.938	0	8849	312504	0
	Se	**82**	**0.057**	ug/L	0.012	21	-12	0	389
	Se	**78**	**0.276**	ug/L	0.067	24	9032	7880	0
	Mo	**98**	**-0.041**	ug/L	0.006	13	1392	940	4
	Y	**89**		ug/L			310463	277476	0
	Kr	**83**		ug/L			81	64	2
>	**In**	**115**		ug/L			464469	412241	1
	Ag	**107**	**0.001**	ug/L	0.001	34	27	42	14
	Cd	**111**	**0.003**	ug/L	0.001	24	218	204	2
	Cd	**114**	**-0.000**	ug/L	0.001	358	68	57	17
	Sb	**121**	**0.012**	ug/L	0.002	15	25	166	12
	Sb	**123**	**0.012**	ug/L	0.001	12	20	120	9
	Ba	**135**	**0.084**	ug/L	0.007	7	15	239	6
	Ba	**137**	**0.087**	ug/L	0.007	7	22	414	8
>	**Tb**	**159**		ug/L			467702	450360	1
	Tl	**205**	**0.000**	ug/L	0.000	45	34	47	13
	Pb	**208**	**0.010**	ug/L	0.000	1	244	692	1
	Bi	**209**		ug/L			375879	343235	0
	Th	**232**	**0.003**	ug/L	0.000	17	177	349	7
	U	**238**	**0.001**	ug/L	0.000	24	29	89	16

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 L REN
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 10, 2011 17:04:40
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	464365	0
[	Be	9	-0.002	ug/L	0.002	93	2	2	34
	C	13		mg/L			5140	4069	1
	Cl	37		mg/L			2489408	2248808	0
[>	Sc	45		ug/L			273386	243473	1
|	V-1	51	0.087	ug/L	0.014	15	2122	2905	3
|	V	51	0.071	ug/L	0.006	9	767	1531	3
|	Cr	52	0.044	ug/L	0.017	38	6539	6268	2
|	Cr	53	-0.002	ug/L	0.016	665	305	269	9
|	Mn	55	16.708	ug/L	0.185	1	899	290729	0
[	Co	59	0.027	ug/L	0.002	8	48	400	7
[>	Ge	72		ug/L			392434	335073	0
|	Ni	60	0.121	ug/L	0.012	9	47	376	7
|	Ni	62	0.027	ug/L	0.022	81	85	84	10
|	Cu	63	0.164	ug/L	0.014	8	279	1278	6
|	Cu	65	0.139	ug/L	0.009	6	93	501	5
|	Zn	66	1.735	ug/L	0.043	2	751	4065	1
|	Zn	67	1.555	ug/L	0.058	3	145	652	2
|	Zn	68	1.418	ug/L	0.178	12	8019	8811	1
|	As-1	75	179.501	ug/L	1.602	0	-39	316319	0
|	As	75	178.383	ug/L	1.595	0	8849	324007	0
|	Se	82	0.063	ug/L	0.035	56	-12	0	1390
|	Se	78	0.261	ug/L	0.010	3	9032	7833	0
[	Mo	98	-0.036	ug/L	0.007	20	1392	963	5
	Y	89		ug/L			310463	276106	0
	Kr	83		ug/L			81	67	4
[>	In	115		ug/L			464469	406441	0
|	Ag	107	0.001	ug/L	0.001	81	27	36	28
|	Cd	111	-0.002	ug/L	0.003	125	218	183	4
|	Cd	114	-0.005	ug/L	0.001	17	68	20	33
|	Sb	121	0.011	ug/L	0.000	2	25	144	2
|	Sb	123	0.011	ug/L	0.002	22	20	111	19
|	Ba	135	0.040	ug/L	0.004	8	15	119	7
[	Ba	137	0.040	ug/L	0.003	7	22	198	7
[>	Tb	159		ug/L			467702	447342	1
|	Tl	205	0.000	ug/L	0.000	64	34	46	18
|	Pb	208	0.005	ug/L	0.000	8	244	432	2
|	Bi	209		ug/L			375879	341376	0
|	Th	232	0.001	ug/L	0.000	32	177	237	10
[	U	238	0.001	ug/L	0.000	25	29	106	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 I REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 17:11:14
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	466989	1
[	Be	9	0.013	ug/L	0.005	35	2	8	24
	C	13		mg/L			5140	6558	3
	Cl	37		mg/L			2489408	2539793	1
[>	Sc	45		ug/L			273386	335195	2
|	V-1	51	5.082	ug/L	0.084	1	2122	84155	0
|	V	51	5.134	ug/L	0.071	1	767	85337	1
|	Cr	52	1.898	ug/L	0.009	0	6539	34684	2
|	Cr	53	2.288	ug/L	0.040	1	305	4297	4
|	Mn	55	515.947	ug/L	2.187	0	899	12328661	2
[	Co	59	0.317	ug/L	0.004	1	48	5928	3
[>	Ge	72		ug/L			392434	341176	1
|	Ni	60	1.255	ug/L	0.044	3	47	3587	5
|	Ni	62	0.609	ug/L	0.037	6	85	336	4
|	Cu	63	1.656	ug/L	0.027	1	279	10926	3
|	Cu	65	0.305	ug/L	0.014	4	93	1025	5
|	Zn	66	0.993	ug/L	0.009	0	751	2648	2
|	Zn	67	1.663	ug/L	0.033	1	145	702	2
|	Zn	68	1.475	ug/L	0.131	8	8019	9053	1
|	As-1	75	0.520	ug/L	0.026	5	-39	899	6
|	As	75	0.271	ug/L	0.067	24	8849	8181	0
|	Se	82	1.401	ug/L	0.084	6	-12	243	8
|	Se	78	0.438	ug/L	0.262	59	9032	8059	0
[	Mo	98	-0.005	ug/L	0.004	87	1392	1179	3
	Y	89		ug/L			310463	286967	1
	Kr	83		ug/L			81	72	1
[>	In	115		ug/L			464469	404485	1
|	Ag	107	0.009	ug/L	0.002	20	27	140	18
|	Cd	111	-0.043	ug/L	0.018	41	218	50	116
|	Cd	114	-0.002	ug/L	0.001	57	68	45	19
|	Sb	121	0.042	ug/L	0.003	5	25	504	6
|	Sb	123	0.040	ug/L	0.002	6	20	363	5
|	Ba	135	8.980	ug/L	0.107	1	15	23673	1
[	Ba	137	9.020	ug/L	0.054	0	22	40362	1
[>	Tb	159		ug/L			467702	436129	1
|	Tl	205	0.003	ug/L	0.001	30	34	125	21
|	Pb	208	0.049	ug/L	0.003	5	244	2302	5
|	Bi	209		ug/L			375879	318989	0
|	Th	232	0.020	ug/L	0.001	6	177	1359	6
[	U	238	0.047	ug/L	0.001	1	29	3092	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 J REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 17:17:44
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	440308	1
[	Be	9	0.012	ug/L	0.005	37	2	7	24
	C	13		mg/L			5140	7137	2
	Cl	37		mg/L			2489408	2494736	0
[>	Sc	45		ug/L			273386	308502	1
|	V-1	51	4.715	ug/L	0.044	0	2122	72039	0
|	V	51	4.717	ug/L	0.056	1	767	72243	0
|	Cr	52	0.529	ug/L	0.016	2	6539	14214	0
|	Cr	53	0.842	ug/L	0.048	5	305	1671	3
|	Mn	55	621.257	ug/L	6.064	0	899	13661717	0
[	Co	59	2.130	ug/L	0.024	1	48	36370	1
[>	Ge	72		ug/L			392434	327801	0
|	Ni	60	3.230	ug/L	0.088	2	47	8802	2
|	Ni	62	2.378	ug/L	0.102	4	85	1055	3
|	Cu	63	2.101	ug/L	0.030	1	279	13253	0
|	Cu	65	0.873	ug/L	0.005	0	93	2671	0
|	Zn	66	4.331	ug/L	0.059	1	751	8988	1
|	Zn	67	5.032	ug/L	0.141	2	145	1795	1
|	Zn	68	5.184	ug/L	0.139	2	8019	13728	1
|	As-1	75	10.422	ug/L	0.084	0	-39	17937	1
|	As	75	10.086	ug/L	0.133	1	8849	24897	1
|	Se	82	1.940	ug/L	0.045	2	-12	328	3
|	Se	78	0.896	ug/L	0.186	20	9032	7952	0
[	Mo	98	7.587	ug/L	0.095	1	1392	47535	0
	Y	89		ug/L			310463	280774	1
	Kr	83		ug/L			81	72	0
[>	In	115		ug/L			464469	385317	0
|	Ag	107	U 0.006	ug/L	0.000	8	27	90	6
|	Cd	111	U -0.046	ug/L	0.026	55	218	39	197
|	Cd	114	0.014	ug/L	0.001	7	68	156	4
|	Sb	121	1.556	ug/L	0.036	2	25	16895	1
|	Sb	123	1.555	ug/L	0.018	1	20	12754	0
|	Ba	135	47.869	ug/L	0.464	0	15	120151	0
[	Ba	137	48.132	ug/L	0.546	1	22	205068	0
[>	Tb	159		ug/L			467702	408524	0
|	Tl	205	0.006	ug/L	0.000	6	34	200	4
|	Pb	208	U 0.042	ug/L	0.001	1	244	1897	1
|	Bi	209		ug/L			375879	302910	1
|	Th	232	0.020	ug/L	0.001	5	177	1310	4
[	U	238	2.356	ug/L	0.014	0	29	144148	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 17:24:16
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	460890	1
[	Be	9	47.775	ug/L	0.904	1	2	21932	1
	C	13		mg/L			5140	3781	2
	Cl	37		mg/L			2489408	2272475	0
[>	Sc	45		ug/L			273386	234291	0
[	V-1	51	50.081	ug/L	0.033	0	2122	563665	0
[	V	51	49.946	ug/L	0.207	0	767	574710	0
[	Cr	52	49.897	ug/L	0.425	0	6539	495683	0
[	Cr	53	49.493	ug/L	0.275	0	305	59544	0
[	Mn	55	50.915	ug/L	0.459	0	899	851079	0
[	Co	59	49.659	ug/L	0.230	0	48	643142	0
[>	Ge	72		ug/L			392434	323737	0
[	Ni	60	51.611	ug/L	0.321	0	47	138326	0
[	Ni	62	51.078	ug/L	0.312	0	85	20951	1
[	Cu	63	51.485	ug/L	0.564	1	279	315359	1
[	Cu	65	51.265	ug/L	0.193	0	93	150506	0
[	Zn	66	50.943	ug/L	0.295	0	751	97747	0
[	Zn	67	50.910	ug/L	0.660	1	145	16849	0
[	Zn	68	51.000	ug/L	0.454	0	8019	74924	0
[	As-1	75	50.542	ug/L	0.174	0	-39	86032	0
[	As	75	50.356	ug/L	0.317	0	8849	93610	0
[	Se	82	53.164	ug/L	0.492	0	-12	9160	1
[	Se	78	52.370	ug/L	0.496	0	9032	31011	0
[	Mo	98	51.569	ug/L	0.347	0	1392	312462	0
	Y	89		ug/L			310463	261976	0
	Kr	83		ug/L			81	76	2
[>	In	115		ug/L			464469	389354	1
[	Ag	107	49.980	ug/L	0.868	1	27	603074	0
[	Cd	111	50.626	ug/L	0.684	1	218	157323	0
[	Cd	114	50.969	ug/L	0.903	1	68	377632	0
[	Sb	121	50.985	ug/L	0.764	1	25	558738	0
[	Sb	123	50.990	ug/L	0.853	1	20	422014	0
[	Ba	135	50.260	ug/L	0.951	1	15	127451	0
[	Ba	137	50.451	ug/L	0.861	1	22	217169	0
[>	Tb	159		ug/L			467702	422969	0
[	Tl	205	45.563	ug/L	0.471	1	34	1382548	0
[	Pb	208	46.673	ug/L	0.208	0	244	1921059	0
[	Bi	209		ug/L			375879	324675	0
[	Th	232	48.291	ug/L	0.208	0	177	2865990	0
[	U	238	49.512	ug/L	0.093	0	29	3136427	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 17:31:28
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			477376	478228	0
[	**Be**	**9**	**0.001**	ug/L	0.003	350	2	3	43
	C	**13**		mg/L			5140	3944	2
	Cl	**37**		mg/L			2489408	2312845	0
[>	**Sc**	**45**		ug/L			273386	242855	1
|	**V-1**	**51**	**0.010**	ug/L	0.007	70	2122	2000	5
|	**V**	**51**	**-0.009**	ug/L	0.001	14	767	570	3
|	**Cr**	**52**	**0.015**	ug/L	0.006	41	6539	5961	2
|	**Cr**	**53**	**-0.044**	ug/L	0.012	26	305	216	5
|	**Mn**	**55**	**0.016**	ug/L	0.004	23	899	1080	5
[	**Co**	**59**	**0.005**	ug/L	0.000	7	48	104	4
[>	**Ge**	**72**		ug/L			392434	336045	0
|	**Ni**	**60**	**0.004**	ug/L	0.005	118	47	52	26
|	**Ni**	**62**	**0.002**	ug/L	0.031	2007	85	74	17
|	**Cu**	**63**	**-0.004**	ug/L	0.000	11	279	215	1
|	**Cu**	**65**	**0.001**	ug/L	0.005	540	93	82	16
|	**Zn**	**66**	**-0.243**	ug/L	0.005	2	751	162	5
|	**Zn**	**67**	**-0.214**	ug/L	0.012	5	145	51	8
|	**Zn**	**68**	**-0.609**	ug/L	0.042	6	8019	6019	0
|	**As-1**	**75**	**-0.008**	ug/L	0.014	180	-39	-47	52
|	**As**	**75**	**0.059**	ug/L	0.024	40	8849	7682	0
|	**Se**	**82**	**0.072**	ug/L	0.043	60	-12	2	366
|	**Se**	**78**	**0.311**	ug/L	0.114	36	9032	7879	0
[	**Mo**	**98**	**-0.169**	ug/L	0.001	0	1392	132	6
	Y	**89**		ug/L			310463	276675	0
	Kr	**83**		ug/L			81	67	9
[>	**In**	**115**		ug/L			464469	410125	0
|	**Ag**	**107**	**0.010**	ug/L	0.002	14	27	155	12
|	**Cd**	**111**	**0.004**	ug/L	0.005	118	218	207	8
|	**Cd**	**114**	**-0.003**	ug/L	0.001	35	68	36	23
|	**Sb**	**121**	**0.013**	ug/L	0.003	21	25	175	18
|	**Sb**	**123**	**0.012**	ug/L	0.000	2	20	125	2
|	**Ba**	**135**	**0.004**	ug/L	0.002	61	15	23	27
[	**Ba**	**137**	**0.006**	ug/L	0.001	20	22	44	11
[>	**Tb**	**159**		ug/L			467702	439425	0
|	**Tl**	**205**	**0.004**	ug/L	0.000	8	34	164	7
|	**Pb**	**208**	**0.004**	ug/L	0.001	22	244	412	9
|	**Bi**	**209**		ug/L			375879	339343	0
|	**Th**	**232**	**0.042**	ug/L	0.003	7	177	2750	7
[	**U**	**238**	**0.005**	ug/L	0.001	13	29	388	13

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 17:41:56
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	470251	1
[	Be	9	U 0.012	ug/L	0.011	92	2	8	60
	C	13		mg/L			5140	6142	0
	Cl	37		mg/L			2489408	2276890	0
[>	Sc	45		ug/L			273386	328835	1
[	V-1	51	1.581	ug/L	0.047	2	2122	27445	0
[	V	51	1.585	ug/L	0.036	2	767	26480	1
[	Cr	52	0.304	ug/L	0.026	8	6539	12053	1
[	Cr	53	0.408	ug/L	0.029	7	305	1053	6
[	Mn	55	219.665	ug/L	2.364	1	899	5149253	0
[	Co	59	0.089	ug/L	0.004	4	48	1673	6
[>	Ge	72		ug/L			392434	340296	1
[	Ni	60	0.996	ug/L	0.042	4	47	2848	4
[	Ni	62	0.260	ug/L	0.024	9	85	186	6
[	Cu	63	1.981	ug/L	0.049	2	279	12987	1
[	Cu	65	1.802	ug/L	0.050	2	93	5637	1
[	Zn	66	0.931	ug/L	0.016	1	751	2517	2
[	Zn	67	0.937	ug/L	0.052	5	145	449	2
[	Zn	68	1.244	ug/L	0.052	4	8019	8705	1
[	As-1	75	465.139	ug/L	3.130	0	-39	832502	0
[	As	75	462.056	ug/L	3.103	0	8849	840132	0
[	Se	82	0.273	ug/L	0.034	12	-12	38	15
[	Se	78	0.060	ug/L	0.022	36	9032	7860	1
[	Mo	98	-0.042	ug/L	0.003	6	1392	941	1
	Y	89		ug/L			310463	277740	0
	Kr	83		ug/L			81	63	3
[>	In	115		ug/L			464469	405176	0
[	Ag	107	0.008	ug/L	0.001	17	27	122	13
[	Cd	111	0.018	ug/L	0.008	43	218	248	10
[	Cd	114	0.006	ug/L	0.001	10	68	106	4
[	Sb	121	0.051	ug/L	0.004	8	25	602	8
[	Sb	123	0.052	ug/L	0.001	1	20	462	2
[	Ba	135	0.891	ug/L	0.026	2	15	2364	2
[	Ba	137	0.868	ug/L	0.039	4	22	3909	3
[>	Tb	159		ug/L			467702	440750	0
[	Tl	205	0.002	ug/L	0.000	9	34	101	6
[	Pb	208	0.045	ug/L	0.001	1	244	2141	0
[	Bi	209		ug/L			375879	329259	1
[	Th	232	0.050	ug/L	0.005	9	177	3250	9
[	U	238	0.003	ug/L	0.000	14	29	248	13

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 D REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, May 10, 2011 17:48:28
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			477376	471575	1
[	**Be**	**9**	**0.002**	ug/L	0.003	146	2	3	33
	C	**13**		mg/L			5140	4642	0
	Cl	**37**		mg/L			2489408	2231922	0
[>	**Sc**	**45**		ug/L			273386	255138	0
[	**V-1**	**51**	**0.395**	ug/L	0.007	1	2122	6803	1
[	**V**	**51**	**0.381**	ug/L	0.011	2	767	5489	2
[	**Cr**	**52**	**0.088**	ug/L	0.008	9	6539	7046	1
[	**Cr**	**53**	**0.070**	ug/L	0.012	17	305	376	4
[	**Mn**	**55**	**53.746**	ug/L	0.355	0	899	978261	0
[	**Co**	**59**	**0.023**	ug/L	0.002	8	48	375	7
[>	**Ge**	**72**		ug/L			392434	331731	0
[	**Ni**	**60**	**0.201**	ug/L	0.013	6	47	591	5
[	**Ni**	**62**	**0.044**	ug/L	0.015	34	85	90	6
[	**Cu**	**63**	**0.419**	ug/L	0.006	1	279	2862	1
[	**Cu**	**65**	**0.397**	ug/L	0.018	4	93	1271	4
[	**Zn**	**66**	**0.097**	ug/L	0.014	14	751	825	2
[	**Zn**	**67**	**0.080**	ug/L	0.017	21	145	149	3
[	**Zn**	**68**	**-0.160**	ug/L	0.089	55	8019	6559	1
[	**As-1**	**75**	**95.949**	ug/L	0.465	0	-39	167386	0
[	**As**	**75**	**95.318**	ug/L	0.463	0	8849	174893	0
[	**Se**	**82**	**0.112**	ug/L	0.048	43	-12	9	93
[	**Se**	**78**	**0.081**	ug/L	0.145	179	9032	7672	0
[	**Mo**	**98**	**-0.154**	ug/L	0.003	1	1392	223	8
	Y	**89**		ug/L			310463	273592	0
	Kr	**83**		ug/L			81	66	7
[>	**In**	**115**		ug/L			464469	401566	1
[	**Ag**	**107**	**0.003**	ug/L	0.001	28	27	57	15
[	**Cd**	**111**	**0.004**	ug/L	0.004	99	218	201	6
[	**Cd**	**114**	**-0.004**	ug/L	0.001	20	68	32	16
[	**Sb**	**121**	**0.012**	ug/L	0.001	6	25	155	6
[	**Sb**	**123**	**0.012**	ug/L	0.002	14	20	116	11
[	**Ba**	**135**	**0.182**	ug/L	0.007	3	15	490	4
[	**Ba**	**137**	**0.177**	ug/L	0.009	5	22	805	4
[>	**Tb**	**159**		ug/L			467702	441826	0
[	**Tl**	**205**	**0.001**	ug/L	0.000	16	34	72	9
[	**Pb**	**208**	**0.013**	ug/L	0.000	1	244	777	0
[	**Bi**	**209**		ug/L			375879	336283	0
[	**Th**	**232**	**0.006**	ug/L	0.000	5	177	560	4
[	**U**	**238**	**0.001**	ug/L	0.000	19	29	118	15

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 F REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 17:54:59
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			477376	413138	6
[	**Be**	**9**	U **0.005**	ug/L	0.008	179	2	4	83
	C	**13**		mg/L			5140	6355	3
	Cl	**37**		mg/L			2489408	2326879	2
[>	**Sc**	**45**		ug/L			273386	278887	8
[	**V-1**	**51**	**1.115**	ug/L	0.020	1	2122	17048	7
[	**V**	**51**	**1.170**	ug/L	0.021	1	767	16790	7
[	**Cr**	**52**	**0.446**	ug/L	0.022	4	6539	11867	5
[	**Cr**	**53**	**0.664**	ug/L	0.016	2	305	1258	7
[	**Mn**	**55**	**158.946**	ug/L	1.968	1	899	3159047	7
[	**Co**	**59**	**0.394**	ug/L	0.011	2	48	6112	6
[>	**Ge**	**72**		ug/L			392434	308387	5
[	**Ni**	**60**	**2.992**	ug/L	0.143	4	47	7686	10
[	**Ni**	**62**	**1.788**	ug/L	0.133	7	85	765	11
[	**Cu**	**63**	**1.494**	ug/L	0.044	2	279	8933	6
[	**Cu**	**65**	**0.636**	ug/L	0.024	3	93	1854	8
[	**Zn**	**66**	**0.488**	ug/L	0.041	8	751	1476	7
[	**Zn**	**67**	**0.657**	ug/L	0.065	9	145	320	11
[	**Zn**	**68**	**0.865**	ug/L	0.264	30	8019	7394	1
[	**As-1**	**75**	**15.533**	ug/L	0.182	1	-39	25163	5
[	**As**	**75**	**15.742**	ug/L	0.317	2	8849	32642	4
[	**Se**	**82**	**0.439**	ug/L	0.044	10	-12	62	17
[	**Se**	**78**	**1.645**	ug/L	0.859	52	9032	7789	0
[	**Mo**	**98**	**6.031**	ug/L	0.208	3	1392	35769	5
	Y	**89**		ug/L			310463	254445	6
	Kr	**83**		ug/L			81	70	1
[>	**In**	**115**		ug/L			464469	357243	6
[	**Ag**	**107**	**0.004**	ug/L	0.001	24	27	64	11
[	**Cd**	**111**	**-0.003**	ug/L	0.012	378	218	159	27
[	**Cd**	**114**	**0.013**	ug/L	0.002	16	68	140	6
[	**Sb**	**121**	**0.152**	ug/L	0.004	2	25	1549	8
[	**Sb**	**123**	**0.153**	ug/L	0.007	4	20	1175	6
[	**Ba**	**135**	**11.249**	ug/L	0.091	0	15	26182	5
[	**Ba**	**137**	**11.368**	ug/L	0.160	1	22	44898	4
[>	**Tb**	**159**		ug/L			467702	389121	5
[	**Tl**	**205**	**0.002**	ug/L	0.000	16	34	80	5
[	**Pb**	**208**	**0.016**	ug/L	0.001	5	244	804	3
[	**Bi**	**209**		ug/L			375879	289109	5
[	**Th**	**232**	**0.014**	ug/L	0.002	12	177	917	15
[	**U**	**238**	**0.149**	ug/L	0.002	1	29	8713	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 G REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 18:01:31
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	381662	0
[	Be	9	0.011	ug/L	0.002	15	2	6	10
	C	13		mg/L			5140	6623	0
	Cl	37		mg/L			2489408	2095307	3
[>	Sc	45		ug/L			273386	268689	0
[	V-1	51	3.376	ug/L	0.013	0	2122	45523	1
[	V	51	3.352	ug/L	0.015	0	767	44934	1
[	Cr	52	0.840	ug/L	0.012	1	6539	15891	1
[	Cr	53	0.952	ug/L	0.044	4	305	1607	3
[	Mn	55	366.705	ug/L	1.436	0	899	7024298	1
[	Co	59	0.210	ug/L	0.005	2	48	3171	2
[>	Ge	72		ug/L			392434	297646	0
[	Ni	60	1.204	ug/L	0.045	3	47	3002	3
[	Ni	62	0.618	ug/L	0.046	7	85	297	5
[	Cu	63	1.519	ug/L	0.018	1	279	8757	1
[	Cu	65	0.916	ug/L	0.038	4	93	2541	4
[	Zn	66	0.556	ug/L	0.018	3	751	1545	2
[	Zn	67	0.868	ug/L	0.019	2	145	372	1
[	Zn	68	1.458	ug/L	0.160	11	8019	7878	2
[	As-1	75	953.466	ug/L	8.487	0	-39	1492748	1
[	As	75	947.711	ug/L	8.453	0	8849	1500239	1
[	Se	82	0.365	ug/L	0.026	7	-12	48	8
[	Se	78	2.200	ug/L	0.091	4	9032	7761	0
[	Mo	98	0.061	ug/L	0.007	10	1392	1395	3
	Y	89		ug/L			310463	235257	0
	Kr	83		ug/L			81	68	4
[>	In	115		ug/L			464469	337909	1
[	Ag	107	0.007	ug/L	0.001	11	27	97	8
[	Cd	111	0.010	ug/L	0.009	87	218	185	11
[	Cd	114	0.024	ug/L	0.002	8	68	205	6
[	Sb	121	0.087	ug/L	0.003	3	25	841	2
[	Sb	123	0.089	ug/L	0.006	6	20	655	7
[	Ba	135	2.923	ug/L	0.008	0	15	6445	1
[	Ba	137	2.970	ug/L	0.029	0	22	11112	0
[>	Tb	159		ug/L			467702	364618	0
[	Tl	205	0.001	ug/L	0.000	12	34	57	7
[	Pb	208	0.052	ug/L	0.001	2	244	2019	3
[	Bi	209		ug/L			375879	279162	1
[	Th	232	0.015	ug/L	0.001	4	177	915	5
[	U	238	0.005	ug/L	0.000	5	29	321	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 G REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, May 10, 2011 18:08:04
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	383818	2
	Be	9	0.009	ug/L	0.009	102	2	5	61
	C	13		mg/L			5140	4864	1
	Cl	37		mg/L			2489408	1946643	1
>	Sc	45		ug/L			273386	202954	3
	V-1	51	0.861	ug/L	0.021	2	2122	9947	5
	V	51	0.836	ug/L	0.019	2	767	8899	5
	Cr	52	0.256	ug/L	0.018	7	6539	7033	3
	Cr	53	0.225	ug/L	0.010	4	305	459	1
	Mn	55	90.171	ug/L	0.604	0	899	1305044	2
	Co	59	0.049	ug/L	0.002	3	48	587	1
>	Ge	72		ug/L			392434	277756	2
	Ni	60	0.246	ug/L	0.003	1	47	600	2
	Ni	62	0.128	ug/L	0.036	28	85	105	12
	Cu	63	0.307	ug/L	0.012	3	279	1810	4
	Cu	65	0.192	ug/L	0.020	10	93	549	11
	Zn	66	-0.046	ug/L	0.029	63	751	456	10
	Zn	67	0.057	ug/L	0.072	126	145	118	18
	Zn	68	0.412	ug/L	0.048	11	8019	6148	1
	As-1	75	196.883	ug/L	2.260	1	-39	287652	3
	As	75	196.263	ug/L	2.220	1	8849	294923	3
	Se	82	0.138	ug/L	0.052	37	-12	11	67
	Se	78	2.735	ug/L	0.190	6	9032	7447	1
	Mo	98	-0.134	ug/L	0.003	2	1392	293	6
	Y	89		ug/L			310463	224561	3
	Kr	83		ug/L			81	68	4
>	In	115		ug/L			464469	324732	2
	Ag	107	0.003	ug/L	0.001	18	27	47	10
	Cd	111	0.003	ug/L	0.006	187	218	160	10
	Cd	114	0.001	ug/L	0.002	169	68	55	24
	Sb	121	0.024	ug/L	0.000	0	25	236	3
	Sb	123	0.022	ug/L	0.000	1	20	162	2
	Ba	135	0.609	ug/L	0.018	2	15	1298	0
	Ba	137	0.616	ug/L	0.012	1	22	2224	0
>	Tb	159		ug/L			467702	353770	3
	Tl	205	0.002	ug/L	0.000	7	34	65	6
	Pb	208	0.012	ug/L	0.001	6	244	613	2
	Bi	209		ug/L			375879	275158	3
	Th	232	0.002	ug/L	0.000	4	177	257	5
	U	238	0.002	ug/L	0.000	16	29	124	11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 J REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 18:14:37
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	375200	0
[	Be	9	U 0.006	ug/L	0.005	82	2	4	41
	C	13		mg/L			5140	5982	1
	Cl	37		mg/L			2489408	1941546	0
[>	Sc	45		ug/L			273386	247429	1
[	V-1	51	1.702	ug/L	0.024	1	2122	22082	0
[	V	51	1.698	ug/L	0.020	1	767	21304	0
[	Cr	52	0.359	ug/L	0.020	5	6539	9641	1
[	Cr	53	0.446	ug/L	0.018	4	305	840	3
[	Mn	55	226.837	ug/L	2.616	1	899	4001221	0
[	Co	59	0.094	ug/L	0.002	2	48	1325	3
[>	Ge	72		ug/L			392434	274141	0
[	Ni	60	0.802	ug/L	0.022	2	47	1853	2
[	Ni	62	0.281	ug/L	0.035	12	85	157	7
[	Cu	63	1.923	ug/L	0.045	2	279	10163	2
[	Cu	65	1.744	ug/L	0.034	1	93	4398	2
[	Zn	66	1.617	ug/L	0.024	1	751	3134	1
[	Zn	67	1.674	ug/L	0.051	3	145	567	2
[	Zn	68	2.677	ug/L	0.128	4	8019	8638	1
[	As-1	75	481.449	ug/L	1.563	0	-39	694206	0
[	As	75	479.003	ug/L	1.513	0	8849	701432	0
[	Se	82	0.248	ug/L	0.027	10	-12	27	14
[	Se	78	2.965	ug/L	0.167	5	9032	7439	0
[	Mo	98	-0.037	ug/L	0.007	17	1392	782	4
	Y	89		ug/L			310463	222743	0
	Kr	83		ug/L			81	66	5
[>	In	115		ug/L			464469	319918	0
[	Ag	107	0.003	ug/L	0.001	29	27	53	19
[	Cd	111	0.017	ug/L	0.009	52	218	193	11
[	Cd	114	0.019	ug/L	0.002	13	68	162	9
[	Sb	121	0.055	ug/L	0.002	3	25	515	3
[	Sb	123	0.059	ug/L	0.004	6	20	416	6
[	Ba	135	0.943	ug/L	0.030	3	15	1974	3
[	Ba	137	0.961	ug/L	0.008	0	22	3415	0
[>	Tb	159		ug/L			467702	348880	0
[	Tl	205	0.002	ug/L	0.000	13	34	73	8
[	Pb	208	0.054	ug/L	0.002	3	244	2007	3
[	Bi	209		ug/L			375879	268507	0
[	Th	232	0.009	ug/L	0.001	8	177	570	6
[	U	238	0.004	ug/L	0.000	13	29	209	11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 N REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 18:21:11
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	378759	1
[	Be	9	U 0.017	ug/L	0.009	51	2	8	37
	C	13		mg/L			5140	6480	1
	Cl	37		mg/L			2489408	1922817	0
[>	Sc	45		ug/L			273386	248499	1
[	V-1	51	1.534	ug/L	0.041	2	2122	20178	1
[	V	51	1.521	ug/L	0.029	1	767	19234	0
[	Cr	52	0.363	ug/L	0.003	0	6539	9729	0
[	Cr	53	0.409	ug/L	0.036	8	305	797	6
[	Mn	55	219.770	ug/L	2.855	1	899	3893326	0
[	Co	59	0.091	ug/L	0.001	0	48	1300	0
[>	Ge	72		ug/L			392434	271960	1
[	Ni	60	0.802	ug/L	0.017	2	47	1839	1
[	Ni	62	0.300	ug/L	0.007	2	85	162	0
[	Cu	63	0.351	ug/L	0.010	2	279	1997	3
[	Cu	65	0.195	ug/L	0.009	4	93	545	5
[	Zn	66	0.707	ug/L	0.015	2	751	1653	0
[	Zn	67	0.857	ug/L	0.022	2	145	337	2
[	Zn	68	1.736	ug/L	0.157	9	8019	7509	1
[	As-1	75	451.597	ug/L	1.427	0	-39	645965	0
[	As	75	449.311	ug/L	1.473	0	8849	653082	0
[	Se	82	0.337	ug/L	0.024	7	-12	40	7
[	Se	78	2.909	ug/L	0.249	8	9032	7358	0
[	Mo	98	-0.066	ug/L	0.001	1	1392	631	0
	Y	89		ug/L			310463	222039	1
	Kr	83		ug/L			81	65	3
[>	In	115		ug/L			464469	318393	1
[	Ag	107	0.002	ug/L	0.001	42	27	35	19
[	Cd	111	0.010	ug/L	0.004	38	218	175	6
[	Cd	114	0.005	ug/L	0.001	28	68	76	11
[	Sb	121	0.050	ug/L	0.003	5	25	464	5
[	Sb	123	0.049	ug/L	0.001	3	20	342	2
[	Ba	135	0.779	ug/L	0.028	3	15	1626	3
[	Ba	137	0.793	ug/L	0.021	2	22	2806	1
[>	Tb	159		ug/L			467702	347891	0
[	Tl	205	0.001	ug/L	0.000	28	34	49	14
[	Pb	208	0.010	ug/L	0.000	4	244	503	3
[	Bi	209		ug/L			375879	269026	1
[	Th	232	0.007	ug/L	0.000	2	177	452	0
[	U	238	0.003	ug/L	0.000	10	29	167	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 N REN
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, May 10, 2011 18:27:45
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

As

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	378236	1
[	Be	9	0.006	ug/L	0.005	84	2	4	41
	C	13		mg/L			5140	4393	0
	Cl	37		mg/L			2489408	1886982	0
[>	Sc	45		ug/L			273386	196763	0
[	V-1	51	0.374	ug/L	0.000	0	2122	5053	0
[	V	51	0.365	ug/L	0.003	0	767	4078	1
[	Cr	52	0.121	ug/L	0.006	5	6539	5703	0
[	Cr	53	0.112	ug/L	0.009	7	305	332	2
[	Mn	55	52.850	ug/L	0.358	0	899	741888	0
[	Co	59	0.024	ug/L	0.001	5	48	299	4
[>	Ge	72		ug/L			392434	265385	0
[	Ni	60	0.154	ug/L	0.027	17	47	370	16
[	Ni	62	0.093	ug/L	0.064	68	85	89	23
[	Cu	63	0.094	ug/L	0.005	5	279	660	4
[	Cu	65	0.069	ug/L	0.005	6	93	229	4
[	Zn	66	0.035	ug/L	0.007	18	751	563	1
[	Zn	67	0.074	ug/L	0.013	17	145	117	3
[	Zn	68	0.530	ug/L	0.082	15	8019	6005	0
[	As-1	75	92.074	ug/L	0.690	0	-39	128496	0
[	As	75	92.163	ug/L	0.745	0	8849	135476	0
[	Se	82	0.165	ug/L	0.030	18	-12	14	27
[	Se	78	2.801	ug/L	0.243	8	9032	7141	0
[	Mo	98	-0.150	ug/L	0.004	2	1392	197	9
	Y	89		ug/L			310463	219024	0
	Kr	83		ug/L			81	58	7
[>	In	115		ug/L			464469	315553	1
[	Ag	107	0.001	ug/L	0.000	84	27	23	17
[	Cd	111	0.004	ug/L	0.007	178	218	158	10
[	Cd	114	-0.004	ug/L	0.001	15	68	21	17
[	Sb	121	0.011	ug/L	0.001	6	25	112	4
[	Sb	123	0.010	ug/L	0.001	14	20	78	12
[	Ba	135	0.166	ug/L	0.016	9	15	351	9
[	Ba	137	0.162	ug/L	0.007	4	22	579	4
[>	Tb	159		ug/L			467702	349579	0
[	Tl	205	0.001	ug/L	0.000	51	34	45	23
[	Pb	208	0.006	ug/L	0.001	22	244	390	12
[	Bi	209		ug/L			375879	270171	0
[	Th	232	0.001	ug/L	0.000	9	177	200	2
[	U	238	0.001	ug/L	0.000	13	29	78	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 Q REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 18:34:19
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	364675	1
	Be	9	0.002	ug/L	0.004	209	2	2	49
	C	13		mg/L			5140	7375	1
	Cl	37		mg/L			2489408	1946612	0
>	Sc	45		ug/L			273386	251757	1
	V-1	51	3.426	ug/L	0.069	2	2122	43243	0
	V	51	3.394	ug/L	0.076	2	767	42609	0
	Cr	52	0.911	ug/L	0.026	2	6539	15633	0
	Cr	53	0.997	ug/L	0.049	4	305	1564	2
	Mn	55	392.338	ug/L	7.448	1	899	7040135	0
	Co	59	0.224	ug/L	0.004	1	48	3167	1
>	Ge	72		ug/L			392434	273841	0
	Ni	60	1.275	ug/L	0.018	1	47	2922	1
	Ni	62	0.643	ug/L	0.044	6	85	282	5
	Cu	63	0.994	ug/L	0.032	3	279	5342	3
	Cu	65	0.378	ug/L	0.017	4	93	1003	4
	Zn	66	0.550	ug/L	0.056	10	751	1412	6
	Zn	67	0.769	ug/L	0.090	11	145	315	8
	Zn	68	1.593	ug/L	0.053	3	8019	7400	0
	As-1	75	1031.183	ug/L	1.439	0	-39	1485279	0
	As	75	1025.132	ug/L	1.403	0	8849	1492477	0
	Se	82	0.343	ug/L	0.053	15	-12	41	18
	Se	78	2.984	ug/L	0.114	3	9032	7438	0
	Mo	98	0.051	ug/L	0.007	14	1392	1234	2
	Y	89		ug/L			310463	219449	1
	Kr	83		ug/L			81	63	4
>	In	115		ug/L			464469	316534	1
	Ag	107	0.006	ug/L	0.001	25	27	72	20
	Cd	111	-0.007	ug/L	0.006	84	218	129	11
	Cd	114	0.003	ug/L	0.002	71	68	63	19
	Sb	121	0.084	ug/L	0.001	0	25	768	2
	Sb	123	0.084	ug/L	0.004	5	20	580	4
	Ba	135	3.065	ug/L	0.044	1	15	6328	0
	Ba	137	3.065	ug/L	0.025	0	22	10741	1
>	Tb	159		ug/L			467702	339561	0
	Tl	205	0.001	ug/L	0.000	13	34	45	5
	Pb	208	0.024	ug/L	0.001	3	244	978	2
	Bi	209		ug/L			375879	259060	0
	Th	232	0.009	ug/L	0.000	5	177	537	4
	U	238	0.005	ug/L	0.000	3	29	257	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 Q REN
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 10, 2011 18:40:55
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

AS

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	381300	1
	Be	9	-0.001	ug/L	0.005	837	2	2	91
	C	13		mg/L			5140	4354	3
	Cl	37		mg/L			2489408	1889822	0
>	Sc	45		ug/L			273386	193032	0
	V-1	51	0.458	ug/L	0.010	2	2122	5735	2
	V	51	0.436	ug/L	0.003	0	767	4672	0
	Cr	52	0.159	ug/L	0.040	24	6539	5903	5
	Cr	53	0.113	ug/L	0.003	2	305	327	1
	Mn	55	50.814	ug/L	0.243	0	899	699805	0
	Co	59	0.025	ug/L	0.002	7	48	303	6
>	Ge	72		ug/L			392434	270188	0
	Ni	60	0.146	ug/L	0.015	10	47	359	9
	Ni	62	0.111	ug/L	0.025	22	85	97	8
	Cu	63	0.109	ug/L	0.006	5	279	748	4
	Cu	65	0.056	ug/L	0.002	3	93	201	2
	Zn	66	-0.047	ug/L	0.017	35	751	442	5
	Zn	67	0.007	ug/L	0.011	168	145	101	2
	Zn	68	0.364	ug/L	0.083	22	8019	5928	1
	As-1	75	106.156	ug/L	0.658	0	-39	150837	0
	As	75	106.079	ug/L	0.678	0	8849	157840	0
	Se	82	0.077	ug/L	0.002	3	-12	2	14
	Se	78	2.463	ug/L	0.141	5	9032	7143	0
	Mo	98	-0.159	ug/L	0.005	3	1392	157	17
	Y	89		ug/L			310463	220732	0
	Kr	83		ug/L			81	62	3
>	In	115		ug/L			464469	319798	1
	Ag	107	-0.000	ug/L	0.000	1348	27	18	20
	Cd	111	-0.004	ug/L	0.003	76	218	140	3
	Cd	114	-0.005	ug/L	0.001	22	68	18	38
	Sb	121	0.011	ug/L	0.001	11	25	117	10
	Sb	123	0.010	ug/L	0.003	25	20	83	20
	Ba	135	0.365	ug/L	0.012	3	15	770	2
	Ba	137	0.371	ug/L	0.009	2	22	1326	1
>	Tb	159		ug/L			467702	349674	0
	Tl	205	0.001	ug/L	0.000	30	34	44	13
	Pb	208	0.005	ug/L	0.000	3	244	365	2
	Bi	209		ug/L			375879	271913	0
	Th	232	0.000	ug/L	0.000	508	177	135	7
	U	238	0.001	ug/L	0.000	13	29	81	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 18:47:29
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	376355	0
[	Be	9	48.671	ug/L	0.246	0	2	18246	0
	C	13		mg/L			5140	3348	1
	Cl	37		mg/L			2489408	1876659	0
[>	Sc	45		ug/L			273386	181673	0
|	V-1	51	51.079	ug/L	0.305	0	2122	445744	0
|	V	51	50.903	ug/L	0.152	0	767	454164	0
|	Cr	52	50.880	ug/L	0.212	0	6539	391843	0
|	Cr	53	50.354	ug/L	0.290	0	305	46970	1
|	Mn	55	50.731	ug/L	0.245	0	899	657543	0
[	Co	59	50.475	ug/L	0.697	1	48	506860	0
[>	Ge	72		ug/L			392434	261878	1
|	Ni	60	50.111	ug/L	0.909	1	47	108630	0
|	Ni	62	49.144	ug/L	0.483	0	85	16307	0
|	Cu	63	50.036	ug/L	0.588	1	279	247911	0
|	Cu	65	49.627	ug/L	0.795	1	93	117846	0
|	Zn	66	50.208	ug/L	0.751	1	751	77931	1
|	Zn	67	49.655	ug/L	0.790	1	145	13295	0
|	Zn	68	50.437	ug/L	0.587	1	8019	59995	0
|	As-1	75	49.983	ug/L	0.380	0	-39	68820	0
|	As	75	50.295	ug/L	0.390	0	8849	75636	0
|	Se	82	51.719	ug/L	0.510	0	-12	7208	0
|	Se	78	52.872	ug/L	0.607	1	9032	25267	0
[	Mo	98	51.771	ug/L	0.278	0	1392	253748	1
	Y	89		ug/L			310463	214339	0
	Kr	83		ug/L			81	66	7
[>	In	115		ug/L			464469	310918	0
|	Ag	107	50.072	ug/L	0.315	0	27	482555	0
|	Cd	111	50.302	ug/L	0.597	1	218	124848	1
|	Cd	114	50.940	ug/L	0.117	0	68	301449	0
|	Sb	121	51.383	ug/L	0.369	0	25	449723	0
|	Sb	123	51.363	ug/L	0.530	1	20	339512	0
|	Ba	135	50.183	ug/L	0.347	0	15	101641	0
[	Ba	137	50.952	ug/L	0.420	0	22	175169	0
[>	Tb	159		ug/L			467702	344598	0
|	Tl	205	45.474	ug/L	0.192	0	34	1124226	0
|	Pb	208	47.274	ug/L	0.219	0	244	1585274	0
|	Bi	209		ug/L			375879	265696	0
|	Th	232	49.387	ug/L	0.267	0	177	2387947	0
[	U	238	50.161	ug/L	0.283	0	29	2588723	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 18:54:42
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	389913	0
[	Be	9	0.000	ug/L	0.003	1089	2	2	50
	C	13		mg/L			5140	3569	2
	Cl	37		mg/L			2489408	1930185	0
[>	Sc	45		ug/L			273386	188214	0
|	V-1	51	0.017	ug/L	0.008	44	2122	1615	3
|	V	51	-0.004	ug/L	0.003	91	767	495	5
|	Cr	52	0.034	ug/L	0.004	10	6539	4767	0
|	Cr	53	-0.031	ug/L	0.017	54	305	180	9
|	Mn	55	0.007	ug/L	0.003	41	899	707	4
[	Co	59	0.004	ug/L	0.001	25	48	75	13
[>	Ge	72		ug/L			392434	268680	0
|	Ni	60	-0.001	ug/L	0.001	117	47	30	11
|	Ni	62	-0.006	ug/L	0.018	285	85	56	10
|	Cu	63	-0.007	ug/L	0.001	18	279	155	4
|	Cu	65	-0.003	ug/L	0.006	184	93	55	26
|	Zn	66	-0.257	ug/L	0.006	2	751	107	9
|	Zn	67	-0.198	ug/L	0.037	18	145	45	22
|	Zn	68	0.163	ug/L	0.091	56	8019	5671	1
|	As-1	75	0.027	ug/L	0.011	40	-39	10	142
|	As	75	0.609	ug/L	0.020	3	8849	6925	0
|	Se	82	0.018	ug/L	0.049	268	-12	-6	117
|	Se	78	2.310	ug/L	0.049	2	9032	7046	0
[	Mo	98	-0.176	ug/L	0.003	1	1392	73	17
	Y	89		ug/L			310463	223173	0
	Kr	83		ug/L			81	67	6
[>	In	115		ug/L			464469	325578	0
|	Ag	107	0.007	ug/L	0.002	25	27	90	20
|	Cd	111	-0.005	ug/L	0.002	41	218	140	3
|	Cd	114	-0.004	ug/L	0.002	42	68	21	53
|	Sb	121	0.012	ug/L	0.000	2	25	131	2
|	Sb	123	0.012	ug/L	0.002	15	20	94	13
|	Ba	135	0.005	ug/L	0.003	61	15	21	31
[	Ba	137	0.002	ug/L	0.001	63	22	23	21
[>	Tb	159		ug/L			467702	356526	0
|	Tl	205	0.003	ug/L	0.001	16	34	112	12
|	Pb	208	0.004	ug/L	0.000	5	244	319	1
|	Bi	209		ug/L			375879	278276	0
|	Th	232	0.036	ug/L	0.003	7	177	1933	6
[	U	238	0.004	ug/L	0.001	16	29	257	14

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 19:01:56
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	388090	0
	Be	9	-0.002	ug/L	0.002	102	2	1	43
	C	13		mg/L			5140	5188	2
	Cl	37		mg/L			2489408	1918827	0
>	Sc	45		ug/L			273386	187962	0
	V-1	51	0.037	ug/L	0.003	9	2122	1796	1
	V	51	0.001	ug/L	0.005	342	767	540	7
	Cr	52	0.185	ug/L	0.015	8	6539	5957	2
	Cr	53	0.064	ug/L	0.009	13	305	271	2
	Mn	55	0.078	ug/L	0.002	2	899	1660	1
	Co	59	0.004	ug/L	0.001	21	48	76	12
>	Ge	72		ug/L			392434	266684	0
	Ni	60	0.026	ug/L	0.006	23	47	90	16
	Ni	62	0.043	ug/L	0.020	47	85	72	10
	Cu	63	0.090	ug/L	0.003	2	279	641	1
	Cu	65	0.096	ug/L	0.016	17	93	295	13
	Zn	66	0.097	ug/L	0.031	31	751	663	6
	Zn	67	0.039	ug/L	0.055	141	145	109	13
	Zn	68	0.396	ug/L	0.099	25	8019	5886	1
	As-1	75	0.031	ug/L	0.014	46	-39	16	123
	As	75	0.696	ug/L	0.031	4	8849	6996	0
	Se	82	0.109	ug/L	0.025	23	-12	6	51
	Se	78	2.663	ug/L	0.135	5	9032	7124	0
	Mo	98	-0.170	ug/L	0.005	2	1392	100	24
	Y	89		ug/L			310463	222814	0
	Kr	83		ug/L			81	59	0
>	In	115		ug/L			464469	320290	1
	Ag	107	0.002	ug/L	0.001	28	27	43	16
	Cd	111	0.001	ug/L	0.002	285	218	152	2
	Cd	114	-0.006	ug/L	0.001	17	68	10	61
	Sb	121	0.007	ug/L	0.001	12	25	80	8
	Sb	123	0.005	ug/L	0.002	45	20	50	32
	Ba	135	0.038	ug/L	0.004	10	15	90	8
	Ba	137	0.035	ug/L	0.009	24	22	139	22
>	Tb	159		ug/L			467702	354355	0
	Tl	205	0.002	ug/L	0.000	24	34	75	16
	Pb	208	0.018	ug/L	0.001	6	244	809	5
	Bi	209		ug/L			375879	275719	0
	Th	232	0.017	ug/L	0.001	8	177	956	8
	U	238	0.002	ug/L	0.000	21	29	123	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 MB2 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 19:08:32
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	387517	0
[	Be	9	0.001	ug/L	0.004	263	2	2	49
	C	13		mg/L			5140	4741	3
	Cl	37		mg/L			2489408	1906572	0
[>	Sc	45		ug/L			273386	186446	0
[	V-1	51	0.023	ug/L	0.011	48	2122	1652	5
[	V	51	-0.001	ug/L	0.001	224	767	517	2
[	Cr	52	0.096	ug/L	0.007	7	6539	5213	0
[	Cr	53	0.019	ug/L	0.027	142	305	226	12
[	Mn	55	0.033	ug/L	0.002	5	899	1051	2
[	Co	59	0.002	ug/L	0.001	46	48	55	19
[>	Ge	72		ug/L			392434	265127	0
[	Ni	60	0.013	ug/L	0.003	21	47	61	10
[	Ni	62	-0.009	ug/L	0.023	254	85	55	13
[	Cu	63	0.017	ug/L	0.001	4	279	275	1
[	Cu	65	0.020	ug/L	0.004	19	93	110	8
[	Zn	66	0.247	ug/L	0.026	10	751	893	4
[	Zn	67	0.255	ug/L	0.088	34	145	166	14
[	Zn	68	0.629	ug/L	0.076	12	8019	6107	1
[	As-1	75	0.012	ug/L	0.019	152	-39	-9	275
[	As	75	0.747	ug/L	0.036	4	8849	7027	0
[	Se	82	0.113	ug/L	0.050	44	-12	7	95
[	Se	78	2.929	ug/L	0.101	3	9032	7181	0
[	Mo	98	-0.178	ug/L	0.002	1	1392	60	17
	Y	89		ug/L			310463	222442	0
	Kr	83		ug/L			81	58	12
[>	In	115		ug/L			464469	319004	0
[	Ag	107	0.001	ug/L	0.001	39	27	32	16
[	Cd	111	-0.003	ug/L	0.006	228	218	142	11
[	Cd	114	-0.005	ug/L	0.001	16	68	16	30
[	Sb	121	0.002	ug/L	0.000	11	25	36	5
[	Sb	123	0.004	ug/L	0.000	10	20	38	6
[	Ba	135	0.028	ug/L	0.006	20	15	67	17
[	Ba	137	0.029	ug/L	0.002	7	22	116	6
[>	Tb	159		ug/L			467702	353456	1
[	Tl	205	0.001	ug/L	0.000	44	34	51	22
[	Pb	208	0.008	ug/L	0.001	14	244	466	8
[	Bi	209		ug/L			375879	273538	1
[	Th	232	0.003	ug/L	0.001	23	177	296	14
[	U	238	0.001	ug/L	0.000	19	29	82	15

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 MB2SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 19:15:08
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	387057	0
	Be	9	25.016	ug/L	0.135	0	2	9646	1
	C	13		mg/L			5140	5545	1
	Cl	37		mg/L			2489408	1909477	0
>	Sc	45		ug/L			273386	189608	0
	V-1	51	26.705	ug/L	0.160	0	2122	243922	0
	V	51	26.564	ug/L	0.161	0	767	247611	0
	Cr	52	26.987	ug/L	0.426	1	6539	219038	0
	Cr	53	26.534	ug/L	0.462	1	305	25931	1
	Mn	55	27.225	ug/L	0.294	1	899	368575	0
	Co	59	27.127	ug/L	0.367	1	48	284328	1
>	Ge	72		ug/L			392434	266083	0
	Ni	60	27.518	ug/L	0.054	0	47	60634	0
	Ni	62	27.437	ug/L	0.157	0	85	9276	1
	Cu	63	28.473	ug/L	0.247	0	279	143428	0
	Cu	65	28.144	ug/L	0.285	1	93	67936	0
	Zn	66	85.557	ug/L	0.454	0	751	134580	0
	Zn	67	76.880	ug/L	0.760	0	145	20864	1
	Zn	68	84.837	ug/L	0.121	0	8019	98832	0
	As-1	75	27.155	ug/L	0.383	1	-39	37978	1
	As	75	27.204	ug/L	0.495	1	8849	44324	1
	Se	82	86.595	ug/L	0.465	0	-12	12269	0
	Se	78	85.290	ug/L	0.450	0	9032	37661	0
	Mo	98	27.438	ug/L	0.147	0	1392	137087	0
	Y	89		ug/L			310463	223642	0
	Kr	83		ug/L			81	69	2
>	In	115		ug/L			464469	321412	0
	Ag	107	26.962	ug/L	0.448	1	27	268602	1
	Cd	111	26.532	ug/L	0.328	1	218	68141	0
	Cd	114	26.645	ug/L	0.261	0	68	163019	0
	Sb	121	26.285	ug/L	0.266	1	25	237831	0
	Sb	123	26.451	ug/L	0.226	0	20	180755	0
	Ba	135	26.990	ug/L	0.270	1	15	56516	0
	Ba	137	27.077	ug/L	0.075	0	22	96243	0
>	Tb	159		ug/L			467702	359970	0
	Tl	205	24.332	ug/L	0.171	0	34	628393	0
	Pb	208	25.199	ug/L	0.171	0	244	882783	0
	Bi	209		ug/L			375879	278388	0
	Th	232	24.185	ug/L	0.162	0	177	1221633	0
	U	238	24.498	ug/L	0.203	0	29	1320750	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 19:21:41
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	390521	0
[	Be	9	23.739	ug/L	0.082	0	2	9236	1
	C	13		mg/L			5140	5802	2
	Cl	37		mg/L			2489408	1905673	0
[>	Sc	45		ug/L			273386	190709	0
[	V-1	51	25.760	ug/L	0.217	0	2122	236705	0
[	V	51	25.532	ug/L	0.184	0	767	239393	0
[	Cr	52	25.572	ug/L	0.136	0	6539	209001	0
[	Cr	53	24.886	ug/L	0.074	0	305	24476	0
[	Mn	55	25.729	ug/L	0.533	2	899	350344	1
[	Co	59	26.048	ug/L	0.319	1	48	274607	1
[>	Ge	72		ug/L			392434	269214	1
[	Ni	60	26.020	ug/L	0.371	1	47	58004	0
[	Ni	62	25.755	ug/L	0.346	1	85	8813	0
[	Cu	63	26.936	ug/L	0.114	0	279	137289	0
[	Cu	65	26.677	ug/L	0.473	1	93	65150	0
[	Zn	66	78.863	ug/L	1.378	1	751	125541	1
[	Zn	67	70.458	ug/L	1.029	1	145	19353	1
[	Zn	68	78.714	ug/L	0.679	0	8019	93172	0
[	As-1	75	25.446	ug/L	0.151	0	-39	36005	1
[	As	75	25.503	ug/L	0.250	0	8849	42419	0
[	Se	82	80.232	ug/L	0.314	0	-12	11500	1
[	Se	78	79.049	ug/L	0.722	0	9032	35768	0
[	Mo	98	26.193	ug/L	0.264	1	1392	132446	0
	Y	89		ug/L			310463	226234	1
	Kr	83		ug/L			81	66	7
[>	In	115		ug/L			464469	325725	1
[	Ag	107	25.868	ug/L	0.257	0	27	261165	0
[	Cd	111	24.955	ug/L	0.196	0	218	64960	1
[	Cd	114	25.029	ug/L	0.383	1	68	155175	0
[	Sb	121	24.837	ug/L	0.251	1	25	227737	0
[	Sb	123	25.066	ug/L	0.323	1	20	173577	0
[	Ba	135	25.606	ug/L	0.340	1	15	54333	0
[	Ba	137	25.805	ug/L	0.314	1	22	92942	0
[>	Tb	159		ug/L			467702	360126	0
[	Tl	205	23.293	ug/L	0.313	1	34	601784	0
[	Pb	208	24.213	ug/L	0.172	0	244	848613	0
[	Bi	209		ug/L			375879	280999	0
[	Th	232	23.462	ug/L	0.256	1	177	1185558	0
[	U	238	23.585	ug/L	0.127	0	29	1272090	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 19:28:06
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	**Li**	**6**		ug/L			477376	388554	1
	Be	**9**	**0.008**	ug/L	0.007	86	2	5	48
	C	**13**		mg/L			5140	6373	3
	Cl	**37**		mg/L			2489408	1891699	0
>	**Sc**	**45**		ug/L			273386	202966	1
	V-1	**51**	**1.224**	ug/L	0.023	1	2122	13468	1
	V	**51**	**1.213**	ug/L	0.013	1	767	12650	0
	Cr	**52**	**2.100**	ug/L	0.031	1	6539	22724	0
	Cr	**53**	**2.004**	ug/L	0.021	1	305	2306	1
	Mn	**55**	**11.278**	ug/L	0.072	0	899	163828	0
	Co	**59**	**0.407**	ug/L	0.008	1	48	4606	0
>	**Ge**	**72**		ug/L			392434	271388	0
	Ni	**60**	**1.985**	ug/L	0.026	1	47	4491	1
	Ni	**62**	**1.585**	ug/L	0.111	7	85	602	6
	Cu	**63**	**3.756**	ug/L	0.059	1	279	19462	1
	Cu	**65**	**3.643**	ug/L	0.027	0	93	9026	0
	Zn	**66**	**25.297**	ug/L	0.190	0	751	40952	1
	Zn	**67**	**22.880**	ug/L	0.587	2	145	6403	2
	Zn	**68**	**25.982**	ug/L	0.250	0	8019	34719	0
	As-1	**75**	**3.731**	ug/L	0.017	0	-39	5299	0
	As	**75**	**4.411**	ug/L	0.021	0	8849	12458	0
	Se	**82**	**0.325**	ug/L	0.029	8	-12	38	10
	Se	**78**	**3.010**	ug/L	0.153	5	9032	7381	0
	Mo	**98**	**1.864**	ug/L	0.022	1	1392	10396	1
	Y	**89**		ug/L			310463	225437	0
	Kr	**83**		ug/L			81	59	5
>	**In**	**115**		ug/L			464469	326782	1
	Ag	**107**	**0.011**	ug/L	0.001	12	27	131	10
	Cd	**111**	**0.206**	ug/L	0.013	6	218	688	3
	Cd	**114**	**0.222**	ug/L	0.007	3	68	1430	3
	Sb	**121**	**6.374**	ug/L	0.053	0	25	58650	0
	Sb	**123**	**6.449**	ug/L	0.131	2	20	44808	0
	Ba	**135**	**21.023**	ug/L	0.302	1	15	44753	0
	Ba	**137**	**21.251**	ug/L	0.404	1	22	76785	0
>	**Tb**	**159**		ug/L			467702	364056	0
	Tl	**205**	**0.012**	ug/L	0.001	11	34	331	10
	Pb	**208**	**0.118**	ug/L	0.001	0	244	4359	1
	Bi	**209**		ug/L			375879	273385	1
	Th	**232**	**0.054**	ug/L	0.012	22	177	2874	21
	U	**238**	**0.075**	ug/L	0.001	1	29	4126	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 19:34:36
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	388228	0
	Be	9	0.001	ug/L	0.005	352	2	2	65
	C	13		mg/L			5140	6294	1
	Cl	37		mg/L			2489408	1886508	0
>	Sc	45		ug/L			273386	201939	0
	V-1	51	1.628	ug/L	0.032	1	2122	17312	1
	V	51	1.608	ug/L	0.017	1	767	16493	0
	Cr	52	1.540	ug/L	0.023	1	6539	17868	0
	Cr	53	1.484	ug/L	0.041	2	305	1757	2
	Mn	55	13.617	ug/L	0.088	0	899	196665	0
	Co	59	0.439	ug/L	0.007	1	48	4934	1
>	Ge	72		ug/L			392434	270159	1
	Ni	60	1.495	ug/L	0.030	2	47	3376	1
	Ni	62	1.174	ug/L	0.010	0	85	459	1
	Cu	63	3.174	ug/L	0.091	2	279	16402	1
	Cu	65	2.976	ug/L	0.036	1	93	7352	1
	Zn	66	13.621	ug/L	0.081	0	751	22188	0
	Zn	67	12.666	ug/L	0.094	0	145	3573	1
	Zn	68	14.311	ug/L	0.374	2	8019	21514	1
	As-1	75	4.245	ug/L	0.051	1	-39	6004	0
	As	75	4.883	ug/L	0.157	3	8849	13074	0
	Se	82	0.277	ug/L	0.060	21	-12	31	27
	Se	78	2.835	ug/L	0.425	14	9032	7281	0
	Mo	98	2.503	ug/L	0.053	2	1392	13568	1
	Y	89		ug/L			310463	225885	0
	Kr	83		ug/L			81	61	6
>	In	115		ug/L			464469	323278	1
	Ag	107	0.003	ug/L	0.000	18	27	44	9
	Cd	111	0.061	ug/L	0.001	2	218	310	2
	Cd	114	0.073	ug/L	0.008	11	68	496	9
	Sb	121	6.706	ug/L	0.100	1	25	61042	1
	Sb	123	6.725	ug/L	0.024	0	20	46229	0
	Ba	135	25.155	ug/L	0.332	1	15	52975	0
	Ba	137	25.536	ug/L	0.391	1	22	91280	0
>	Tb	159		ug/L			467702	361111	0
	Tl	205	0.004	ug/L	0.000	7	34	132	4
	Pb	208	0.164	ug/L	0.004	2	244	5946	3
	Bi	209		ug/L			375879	272721	0
	Th	232	0.011	ug/L	0.001	4	177	719	4
	U	238	0.068	ug/L	0.001	1	29	3682	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 19:41:07
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	380501	0
[	Be	9	0.025	ug/L	0.010	40	2	11	32
	C	13		mg/L			5140	7084	1
	Cl	37		mg/L			2489408	1875538	0
[>	Sc	45		ug/L			273386	201084	1
[	V-1	51	4.336	ug/L	0.060	1	2122	43301	0
[	V	51	4.326	ug/L	0.063	1	767	43232	0
[	Cr	52	6.919	ug/L	0.179	2	6539	63116	0
[	Cr	53	6.700	ug/L	0.180	2	305	7110	1
[	Mn	55	35.520	ug/L	0.843	2	899	509672	1
[	Co	59	1.265	ug/L	0.036	2	48	14090	1
[>	Ge	72		ug/L			392434	264057	0
[	Ni	60	3.871	ug/L	0.083	2	47	8491	1
[	Ni	62	3.983	ug/L	0.061	1	85	1385	1
[	Cu	63	17.805	ug/L	0.208	1	279	89073	0
[	Cu	65	17.707	ug/L	0.150	0	93	42441	0
[	Zn	66	89.743	ug/L	0.211	0	751	140067	0
[	Zn	67	78.896	ug/L	0.679	0	145	21245	0
[	Zn	68	89.438	ug/L	1.563	1	8019	103103	1
[	As-1	75	8.183	ug/L	0.013	0	-39	11338	0
[	As	75	8.848	ug/L	0.034	0	8849	18324	0
[	Se	82	0.386	ug/L	0.048	12	-12	45	14
[	Se	78	3.167	ug/L	0.097	3	9032	7239	0
[	Mo	98	2.120	ug/L	0.028	1	1392	11377	0
	Y	89		ug/L			310463	227196	0
	Kr	83		ug/L			81	63	0
[>	In	115		ug/L			464469	315987	0
[	Ag	107	0.056	ug/L	0.002	3	27	564	3
[	Cd	111	0.650	ug/L	0.017	2	218	1784	2
[	Cd	114	0.649	ug/L	0.007	1	68	3952	0
[	Sb	121	6.950	ug/L	0.055	0	25	61834	1
[	Sb	123	6.971	ug/L	0.078	1	20	46846	1
[	Ba	135	42.489	ug/L	0.330	0	15	87464	0
[	Ba	137	42.715	ug/L	0.326	0	22	149249	0
[>	Tb	159		ug/L			467702	350350	0
[	Tl	205	0.009	ug/L	0.001	8	34	254	7
[	Pb	208	41.776	ug/L	0.214	0	244	1424295	0
[	Bi	209		ug/L			375879	274238	0
[	Th	232	0.084	ug/L	0.002	2	177	4265	1
[	U	238	0.117	ug/L	0.001	1	29	6168	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 D REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 19:47:38
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	377296	0
[	Be	9	0.001	ug/L	0.003	648	2	2	50
	C	13		mg/L			5140	6760	1
	Cl	37		mg/L			2489408	1866004	0
[>	Sc	45		ug/L			273386	192550	1
[	V-1	51	1.906	ug/L	0.049	2	2122	19068	1
[	V	51	1.864	ug/L	0.035	1	767	18147	1
[	Cr	52	1.809	ug/L	0.028	1	6539	19210	1
[	Cr	53	1.687	ug/L	0.080	4	305	1876	5
[	Mn	55	14.208	ug/L	0.065	0	899	195647	1
[	Co	59	0.465	ug/L	0.011	2	48	4982	3
[>	Ge	72		ug/L			392434	260950	0
[	Ni	60	1.447	ug/L	0.032	2	47	3155	1
[	Ni	62	1.052	ug/L	0.103	9	85	403	8
[	Cu	63	4.119	ug/L	0.037	0	279	20506	0
[	Cu	65	3.915	ug/L	0.055	1	93	9321	1
[	Zn	66	15.037	ug/L	0.047	0	751	23608	0
[	Zn	67	13.818	ug/L	0.404	2	145	3756	2
[	Zn	68	15.629	ug/L	0.207	1	8019	22206	1
[	As-1	75	4.507	ug/L	0.040	0	-39	6159	0
[	As	75	5.178	ug/L	0.002	0	8849	13038	0
[	Se	82	0.377	ug/L	0.030	8	-12	44	10
[	Se	78	3.053	ug/L	0.139	4	9032	7113	1
[	Mo	98	1.975	ug/L	0.023	1	1392	10537	0
	Y	89		ug/L			310463	218202	0
	Kr	83		ug/L			81	57	7
[>	In	115		ug/L			464469	311986	0
[	Ag	107	0.005	ug/L	0.001	13	27	65	9
[	Cd	111	0.072	ug/L	0.010	13	218	326	6
[	Cd	114	0.080	ug/L	0.005	6	68	523	5
[	Sb	121	6.884	ug/L	0.054	0	25	60469	0
[	Sb	123	6.817	ug/L	0.063	0	20	45227	0
[	Ba	135	26.045	ug/L	0.222	0	15	52937	0
[	Ba	137	26.267	ug/L	0.140	0	22	90627	1
[>	Tb	159		ug/L			467702	349096	0
[	Tl	205	0.004	ug/L	0.000	4	34	126	3
[	Pb	208	1.174	ug/L	0.003	0	244	40050	0
[	Bi	209		ug/L			375879	265119	0
[	Th	232	0.006	ug/L	0.001	10	177	438	6
[	U	238	0.080	ug/L	0.003	3	29	4206	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 P REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 19:54:09
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	**Li**	**6**		ug/L			477376	360529	1
[	**Be**	**9**	**0.008**	ug/L	0.007	89	2	5	50
	C	**13**		mg/L			5140	6848	0
	Cl	**37**		mg/L			2489408	1974450	0
[>	**Sc**	**45**		ug/L			273386	226541	0
[	**V-1**	**51**	**1.161**	ug/L	0.053	4	2122	14353	3
[	**V**	**51**	**1.191**	ug/L	0.041	3	767	13869	2
[	**Cr**	**52**	**0.515**	ug/L	0.025	4	6539	10305	1
[	**Cr**	**53**	**0.653**	ug/L	0.019	2	305	1009	2
[	**Mn**	**55**	**166.112**	ug/L	1.538	0	899	2683000	0
[	**Co**	**59**	**0.410**	ug/L	0.007	1	48	5169	1
[>	**Ge**	**72**		ug/L			392434	258536	0
[	**Ni**	**60**	**3.213**	ug/L	0.041	1	47	6906	1
[	**Ni**	**62**	**2.158**	ug/L	0.012	0	85	760	0
[	**Cu**	**63**	**1.328**	ug/L	0.017	1	279	6676	1
[	**Cu**	**65**	**0.505**	ug/L	0.014	2	93	1244	2
[	**Zn**	**66**	**0.709**	ug/L	0.037	5	751	1574	3
[	**Zn**	**67**	**0.836**	ug/L	0.058	6	145	315	4
[	**Zn**	**68**	**1.650**	ug/L	0.110	6	8019	7048	1
[	**As-1**	**75**	**15.605**	ug/L	0.192	1	-39	21195	0
[	**As**	**75**	**16.281**	ug/L	0.189	1	8849	28115	0
[	**Se**	**82**	**0.397**	ug/L	0.099	24	-12	46	29
[	**Se**	**78**	**3.392**	ug/L	0.119	3	9032	7169	0
[	**Mo**	**98**	**6.328**	ug/L	0.076	1	1392	31427	0
	Y	**89**		ug/L			310463	218893	0
	Kr	**83**		ug/L			81	61	0
[>	**In**	**115**		ug/L			464469	304341	1
[	**Ag**	**107**	**0.003**	ug/L	0.001	34	27	43	20
[	**Cd**	**111**	**-0.031**	ug/L	0.015	48	218	67	54
[	**Cd**	**114**	**0.008**	ug/L	0.003	35	68	89	17
[	**Sb**	**121**	**0.160**	ug/L	0.006	3	25	1387	3
[	**Sb**	**123**	**0.159**	ug/L	0.009	5	20	1039	4
[	**Ba**	**135**	**11.720**	ug/L	0.123	1	15	23241	0
[	**Ba**	**137**	**11.775**	ug/L	0.156	1	22	39633	0
[>	**Tb**	**159**		ug/L			467702	338255	0
[	**Tl**	**205**	**0.002**	ug/L	0.000	19	34	69	11
[	**Pb**	**208**	**0.020**	ug/L	0.002	11	244	820	8
[	**Bi**	**209**		ug/L			375879	249602	0
[	**Th**	**232**	**0.007**	ug/L	0.001	11	177	450	8
[	**U**	**238**	**0.145**	ug/L	0.003	2	29	7391	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 T REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 20:00:42
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	373806	0
[	Be	9	0.008	ug/L	0.008	100	2	5	58
	C	13		mg/L			5140	6192	1
	Cl	37		mg/L			2489408	1861827	0
[>	Sc	45		ug/L			273386	240186	0
[	V-1	51	1.561	ug/L	0.023	1	2122	19820	1
[	V	51	1.555	ug/L	0.021	1	767	18992	1
[	Cr	52	0.388	ug/L	0.012	3	6539	9648	1
[	Cr	53	0.454	ug/L	0.020	4	305	825	2
[	Mn	55	222.508	ug/L	1.222	0	899	3810262	0
[	Co	59	0.101	ug/L	0.003	3	48	1378	3
[>	Ge	72		ug/L			392434	262626	0
[	Ni	60	1.173	ug/L	0.021	1	47	2581	1
[	Ni	62	0.627	ug/L	0.015	2	85	265	1
[	Cu	63	0.642	ug/L	0.011	1	279	3373	1
[	Cu	65	0.494	ug/L	0.029	5	93	1238	5
[	Zn	66	1.050	ug/L	0.031	2	751	2127	2
[	Zn	67	1.088	ug/L	0.044	4	145	387	3
[	Zn	68	2.092	ug/L	0.099	4	8019	7639	1
[	As-1	75	462.645	ug/L	2.274	0	-39	639064	0
[	As	75	460.356	ug/L	2.285	0	8849	646034	0
[	Se	82	0.324	ug/L	0.035	10	-12	36	13
[	Se	78	3.141	ug/L	0.070	2	9032	7191	0
[	Mo	98	-0.025	ug/L	0.007	28	1392	809	4
	Y	89		ug/L			310463	215072	0
	Kr	83		ug/L			81	59	6
[>	In	115		ug/L			464469	310058	0
[	Ag	107	0.003	ug/L	0.001	32	27	42	19
[	Cd	111	0.085	ug/L	0.005	6	218	356	4
[	Cd	114	0.071	ug/L	0.003	4	68	462	4
[	Sb	121	0.052	ug/L	0.003	6	25	472	5
[	Sb	123	0.050	ug/L	0.003	5	20	340	5
[	Ba	135	0.915	ug/L	0.033	3	15	1857	3
[	Ba	137	0.914	ug/L	0.016	1	22	3149	1
[>	Tb	159		ug/L			467702	342071	0
[	Tl	205	0.001	ug/L	0.000	11	34	55	7
[	Pb	208	0.021	ug/L	0.001	2	244	875	2
[	Bi	209		ug/L			375879	263467	0
[	Th	232	0.008	ug/L	0.000	2	177	490	2
[	U	238	0.003	ug/L	0.000	15	29	163	14

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 20:07:15
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	371983	0
[	Be	9	47.866	ug/L	0.224	0	2	17736	0
	C	13		mg/L			5140	3263	2
	Cl	37		mg/L			2489408	1833508	0
[>	Sc	45		ug/L			273386	176127	0
[	V-1	51	51.097	ug/L	0.465	0	2122	432290	0
[	V	51	50.738	ug/L	0.412	0	767	438870	0
[	Cr	52	51.209	ug/L	0.487	0	6539	382314	0
[	Cr	53	50.098	ug/L	0.274	0	305	45306	0
[	Mn	55	50.694	ug/L	0.637	1	899	637001	0
[	Co	59	50.229	ug/L	0.491	0	48	489014	0
[>	Ge	72		ug/L			392434	253951	0
[	Ni	60	49.914	ug/L	0.351	0	47	104941	0
[	Ni	62	49.604	ug/L	0.146	0	85	15962	0
[	Cu	63	50.012	ug/L	0.076	0	279	240304	0
[	Cu	65	50.087	ug/L	0.421	0	93	115346	0
[	Zn	66	50.349	ug/L	0.526	1	751	75785	0
[	Zn	67	49.092	ug/L	1.057	2	145	12750	2
[	Zn	68	50.896	ug/L	0.334	0	8019	58664	0
[	As-1	75	50.494	ug/L	0.236	0	-39	67422	0
[	As	75	50.756	ug/L	0.211	0	8849	73970	0
[	Se	82	52.442	ug/L	0.022	0	-12	7088	0
[	Se	78	53.424	ug/L	0.308	0	9032	24699	0
[	Mo	98	52.624	ug/L	0.171	0	1392	250109	0
	Y	89		ug/L			310463	210031	0
	Kr	83		ug/L			81	68	3
[>	In	115		ug/L			464469	303469	0
[	Ag	107	49.554	ug/L	0.247	0	27	466121	0
[	Cd	111	49.940	ug/L	0.084	0	218	120976	0
[	Cd	114	50.210	ug/L	0.445	0	68	289999	0
[	Sb	121	51.002	ug/L	0.406	0	25	435686	0
[	Sb	123	51.097	ug/L	0.654	1	20	329651	0
[	Ba	135	50.282	ug/L	0.502	0	15	99398	0
[	Ba	137	50.471	ug/L	0.285	0	22	169357	0
[>	Tb	159		ug/L			467702	336871	0
[	Tl	205	45.619	ug/L	0.314	0	34	1102502	0
[	Pb	208	47.065	ug/L	0.433	0	244	1542812	0
[	Bi	209		ug/L			375879	259304	0
[	Th	232	49.147	ug/L	0.570	1	177	2322967	0
[	U	238	49.524	ug/L	0.566	1	29	2498480	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 20:14:28
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	378676	0
	Be	9	-0.006	ug/L	0.000	0	2	0	
	C	13		mg/L			5140	3402	1
	Cl	37		mg/L			2489408	1836603	0
>	Sc	45		ug/L			273386	178651	0
	V-1	51	0.017	ug/L	0.005	28	2122	1535	2
	V	51	-0.006	ug/L	0.002	37	767	445	5
	Cr	52	0.061	ug/L	0.009	14	6539	4729	0
	Cr	53	-0.015	ug/L	0.007	46	305	185	3
	Mn	55	-0.003	ug/L	0.002	62	899	549	3
	Co	59	0.004	ug/L	0.001	22	48	75	12
>	Ge	72		ug/L			392434	257884	1
	Ni	60	0.001	ug/L	0.004	689	47	32	21
	Ni	62	-0.006	ug/L	0.008	138	85	54	4
	Cu	63	-0.009	ug/L	0.002	18	279	141	4
	Cu	65	-0.003	ug/L	0.002	56	93	53	8
	Zn	66	-0.254	ug/L	0.005	1	751	108	5
	Zn	67	-0.224	ug/L	0.032	14	145	36	23
	Zn	68	0.321	ug/L	0.026	7	8019	5612	1
	As-1	75	0.009	ug/L	0.020	225	-39	-14	189
	As	75	0.895	ug/L	0.073	8	8849	7036	0
	Se	82	-0.023	ug/L	0.032	137	-12	-11	39
	Se	78	3.427	ug/L	0.243	7	9032	7162	0
	Mo	98	-0.173	ug/L	0.002	1	1392	81	13
	Y	89		ug/L			310463	214529	2
	Kr	83		ug/L			81	65	4
>	In	115		ug/L			464469	308103	0
	Ag	107	0.009	ug/L	0.002	16	27	108	13
	Cd	111	-0.008	ug/L	0.001	16	218	125	2
	Cd	114	-0.004	ug/L	0.000	10	68	21	11
	Sb	121	0.012	ug/L	0.003	23	25	117	20
	Sb	123	0.012	ug/L	0.002	15	20	92	13
	Ba	135	0.005	ug/L	0.003	69	15	19	33
	Ba	137	0.005	ug/L	0.002	42	22	32	22
>	Tb	159		ug/L			467702	342284	0
	Tl	205	0.004	ug/L	0.000	2	34	126	1
	Pb	208	0.004	ug/L	0.001	19	244	328	8
	Bi	209		ug/L			375879	265951	0
	Th	232	0.037	ug/L	0.002	5	177	1912	5
	U	238	0.005	ug/L	0.000	7	29	261	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 MB1 REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 20:21:40
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	380021	0
[	Be	9	-0.003	ug/L	0.000	1	2	1	0
	C	13		mg/L			5140	4135	3
	Cl	37		mg/L			2489408	1830508	0
[>	Sc	45		ug/L			273386	177121	0
|	V-1	51	0.032	ug/L	0.009	28	2122	1646	5
|	V	51	-0.004	ug/L	0.006	149	767	459	11
|	Cr	52	0.096	ug/L	0.020	20	6539	4952	3
|	Cr	53	-0.020	ug/L	0.017	86	305	180	8
|	Mn	55	0.039	ug/L	0.008	21	899	1073	9
[	Co	59	0.006	ug/L	0.001	14	48	91	9
[>	Ge	72		ug/L			392434	251050	0
|	Ni	60	0.028	ug/L	0.000	1	47	87	0
|	Ni	62	0.022	ug/L	0.042	188	85	62	22
|	Cu	63	0.059	ug/L	0.009	15	279	460	8
|	Cu	65	0.063	ug/L	0.009	14	93	204	10
|	Zn	66	0.136	ug/L	0.023	16	751	682	4
|	Zn	67	0.148	ug/L	0.024	16	145	130	5
|	Zn	68	0.903	ug/L	0.039	4	8019	6068	0
|	As-1	75	✓ 0.031	ug/L	0.017	55	-39	16	141
|	As	75	1.084	ug/L	0.077	7	8849	7101	0
|	Se	82	0.105	ug/L	0.042	39	-12	6	93
|	Se	78	4.167	ug/L	0.318	7	9032	7231	1
[	Mo	98	-0.180	ug/L	0.002	1	1392	49	17
	Y	89		ug/L			310463	211740	0
	Kr	83		ug/L			81	61	2
[>	In	115		ug/L			464469	302583	0
|	Ag	107	0.002	ug/L	0.001	35	27	36	18
|	Cd	111	0.002	ug/L	0.006	372	218	145	9
|	Cd	114	-0.005	ug/L	0.001	17	68	18	23
|	Sb	121	0.005	ug/L	0.001	18	25	57	13
|	Sb	123	0.007	ug/L	0.002	26	20	55	20
|	Ba	135	0.015	ug/L	0.004	28	15	39	21
[	Ba	137	0.016	ug/L	0.003	22	22	66	17
[>	Tb	159		ug/L			467702	337142	0
|	Tl	205	0.002	ug/L	0.000	5	34	85	2
|	Pb	208	U 0.019	ug/L	0.002	8	244	797	6
|	Bi	209		ug/L			375879	262643	1
|	Th	232	0.011	ug/L	0.001	5	177	646	4
[	U	238	0.002	ug/L	0.000	7	29	126	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 MB1SPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 20:28:13
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	381254	0
[	Be	9	23.229	ug/L	0.144	0	2	8822	0
	C	13		mg/L			5140	4772	2
	Cl	37		mg/L			2489408	1821970	0
[>	Sc	45		ug/L			273386	179630	0
[	V-1	51	25.560	ug/L	0.207	0	2122	221247	1
[	V	51	25.337	ug/L	0.160	0	767	223779	0
[	Cr	52	25.273	ug/L	0.227	0	6539	194615	1
[	Cr	53	24.611	ug/L	0.519	2	305	22801	1
[	Mn	55	25.729	ug/L	0.184	0	899	330023	0
[	Co	59	25.721	ug/L	0.175	0	48	255420	1
[>	Ge	72		ug/L			392434	253912	0
[	Ni	60	26.020	ug/L	0.274	1	47	54712	1
[	Ni	62	25.661	ug/L	0.450	1	85	8283	1
[	Cu	63	26.723	ug/L	0.193	0	279	128465	0
[	Cu	65	26.816	ug/L	0.159	0	93	61777	0
[	Zn	66	82.281	ug/L	0.526	0	751	123527	0
[	Zn	67	73.941	ug/L	0.721	0	145	19152	0
[	Zn	68	81.629	ug/L	0.302	0	8019	90942	0
[	As-1	75	25.592	ug/L	0.184	0	-39	34154	0
[	As	75	26.071	ug/L	0.292	1	8849	40774	0
[	Se	82	81.678	ug/L	0.856	1	-12	11042	0
[	Se	78	82.098	ug/L	1.039	1	9032	34812	0
[	Mo	98	-0.176	ug/L	0.003	1	1392	66	19
	Y	89		ug/L			310463	213689	0
	Kr	83		ug/L			81	67	5
[>	In	115		ug/L			464469	303949	0
[	Ag	107	25.802	ug/L	0.021	0	27	243100	0
[	Cd	111	25.097	ug/L	0.393	1	218	60960	1
[	Cd	114	25.210	ug/L	0.128	0	68	145861	0
[	Sb	121	0.007	ug/L	0.001	21	25	75	17
[	Sb	123	0.005	ug/L	0.002	47	20	43	32
[	Ba	135	25.715	ug/L	0.173	0	15	50921	0
[	Ba	137	25.746	ug/L	0.314	1	22	86532	0
[>	Tb	159		ug/L			467702	339501	0
[	Tl	205	23.236	ug/L	0.252	1	34	565961	0
[	Pb	208	24.255	ug/L	0.094	0	244	801427	0
[	Bi	209		ug/L			375879	268116	0
[	Th	232	23.090	ug/L	0.048	0	177	1100008	0
[	U	238	23.410	ug/L	0.137	0	29	1190322	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 ADUP REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 20:34:46
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	344693	6
[	Be	9	0.006	ug/L	0.008	145	2	4	75
	C	13		mg/L			5140	5492	3
	Cl	37		mg/L			2489408	1843856	2
[>	Sc	45		ug/L			273386	210743	6
[	V-1	51	0.684	ug/L	0.014	1	2122	8545	7
[	V	51	0.665	ug/L	0.010	1	767	7463	6
[	Cr	52	0.338	ug/L	0.013	3	6539	8029	7
[	Cr	53	0.303	ug/L	0.028	9	305	561	4
[	Mn	55	339.365	ug/L	2.122	0	899	5097444	6
[	Co	59	0.186	ug/L	0.003	1	48	2208	5
[>	Ge	72		ug/L			392434	244311	5
[	Ni	60	0.984	ug/L	0.025	2	47	2021	7
[	Ni	62	1.474	ug/L	0.143	9	85	509	14
[	Cu	63	2.508	ug/L	0.044	1	279	11766	7
[	Cu	65	0.667	ug/L	0.010	1	93	1533	4
[	Zn	66	0.337	ug/L	0.029	8	751	954	9
[	Zn	67	0.507	ug/L	0.061	12	145	215	3
[	Zn	68	1.997	ug/L	0.312	15	8019	7000	0
[	As-1	75	14.220	ug/L	0.044	0	-39	18248	5
[	As	75	15.374	ug/L	0.236	1	8849	25385	4
[	Se	82	0.230	ug/L	0.016	6	-12	22	5
[	Se	78	5.056	ug/L	0.891	17	9032	7328	1
[	Mo	98	0.025	ug/L	0.006	23	1392	980	8
	Y	89		ug/L			310463	203064	6
	Kr	83		ug/L			81	63	6
[>	In	115		ug/L			464469	283728	5
[	Ag	107	0.014	ug/L	0.002	12	27	141	17
[	Cd	111	-0.106	ug/L	0.025	23	218	-105	48
[	Cd	114	0.007	ug/L	0.003	44	68	77	26
[	Sb	121	0.332	ug/L	0.009	2	25	2672	8
[	Sb	123	0.333	ug/L	0.008	2	20	2023	7
[	Ba	135	10.535	ug/L	0.203	1	15	19467	4
[	Ba	137	10.596	ug/L	0.095	0	22	33258	6
[>	Tb	159		ug/L			467702	317220	5
[	Tl	205	0.008	ug/L	0.001	13	34	200	13
[	Pb	208	0.107	ug/L	0.000	0	244	3479	5
[	Bi	209		ug/L			375879	234332	5
[	Th	232	0.053	ug/L	0.006	10	177	2504	15
[	U	238	0.124	ug/L	0.002	1	29	5916	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 20:41:20
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	396225	1
[	Be	9	0.003	ug/L	0.000	4	2	3	
	C	13		mg/L			5140	5816	1
	Cl	37		mg/L			2489408	1976914	0
[>	Sc	45		ug/L			273386	245942	2
[	V-1	51	0.679	ug/L	0.018	2	2122	9902	2
[	V	51	0.662	ug/L	0.014	2	767	8672	1
[	Cr	52	0.306	ug/L	0.015	5	6539	9040	1
[	Cr	53	0.281	ug/L	0.005	1	305	628	1
[	Mn	55	338.916	ug/L	3.804	1	899	5941522	1
[	Co	59	0.183	ug/L	0.004	2	48	2525	1
[>	Ge	72		ug/L			392434	280199	1
[	Ni	60	1.076	ug/L	0.054	5	47	2528	3
[	Ni	62	1.559	ug/L	0.363	23	85	612	20
[	Cu	63	2.485	ug/L	0.040	1	279	13363	0
[	Cu	65	0.596	ug/L	0.023	3	93	1579	2
[	Zn	66	0.305	ug/L	0.067	21	751	1039	10
[	Zn	67	0.565	ug/L	0.038	6	145	264	4
[	Zn	68	1.309	ug/L	0.100	7	8019	7242	1
[	As-1	75	14.165	ug/L	0.048	0	-39	20848	1
[	As	75	14.793	ug/L	0.180	1	8849	28262	1
[	Se	82	0.236	ug/L	0.006	2	-12	26	3
[	Se	78	2.991	ug/L	0.538	17	9032	7611	1
[	Mo	98	0.046	ug/L	0.008	16	1392	1234	4
	Y	89		ug/L			310463	232162	1
	Kr	83		ug/L			81	61	6
[>	In	115		ug/L			464469	330017	1
[	Ag	107	0.004	ug/L	0.001	21	27	59	12
[	Cd	111	-0.118	ug/L	0.035	29	218	-154	60
[	Cd	114	0.002	ug/L	0.001	56	68	64	14
[	Sb	121	0.331	ug/L	0.001	0	25	3090	1
[	Sb	123	0.323	ug/L	0.004	1	20	2279	3
[	Ba	135	10.150	ug/L	0.071	0	15	21829	2
[	Ba	137	10.354	ug/L	0.057	0	22	37799	2
[>	Tb	159		ug/L			467702	364364	2
[	Tl	205	0.004	ug/L	0.000	6	34	135	6
[	Pb	208	0.098	ug/L	0.003	3	244	3664	1
[	Bi	209		ug/L			375879	264463	2
[	Th	232	0.022	ug/L	0.001	3	177	1278	5
[	U	238	0.112	ug/L	0.003	2	29	6130	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 ASPK REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 20:47:55
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	403567	2
	Be	9	24.305	ug/L	0.120	0	2	9772	3
	C	13		mg/L			5140	5909	5
	Cl	37		mg/L			2489408	2076153	4
>	Sc	45		ug/L			273386	251642	3
	V-1	51	22.406	ug/L	0.286	1	2122	271866	2
	V	51	22.317	ug/L	0.285	1	767	276130	2
	Cr	52	21.438	ug/L	0.031	0	6539	232174	3
	Cr	53	21.236	ug/L	0.129	0	305	27599	3
	Mn	55	350.166	ug/L	2.611	0	899	6281265	3
	Co	59	21.110	ug/L	0.038	0	48	293659	3
>	Ge	72		ug/L			392434	286091	2
	Ni	60	26.576	ug/L	0.220	0	47	62967	2
	Ni	62	26.479	ug/L	0.243	0	85	9626	1
	Cu	63	27.560	ug/L	0.214	0	279	149292	3
	Cu	65	25.912	ug/L	0.389	1	93	67271	3
	Zn	66	76.731	ug/L	0.716	0	751	129839	2
	Zn	67	68.652	ug/L	0.425	0	145	20042	2
	Zn	68	76.401	ug/L	0.516	0	8019	96285	2
	As-1	75	39.296	ug/L	0.249	0	-39	59110	2
	As	75	39.646	ug/L	0.380	0	8849	66508	2
	Se	82	79.576	ug/L	0.706	0	-12	12122	2
	Se	78	79.824	ug/L	1.372	1	9032	38322	3
	Mo	98	0.019	ug/L	0.011	57	1392	1119	6
	Y	89		ug/L			310463	236853	2
	Kr	83		ug/L			81	64	2
>	In	115		ug/L			464469	336996	2
	Ag	107	23.615	ug/L	0.257	1	27	246728	3
	Cd	111	24.679	ug/L	0.152	0	218	66474	3
	Cd	114	24.989	ug/L	0.174	0	68	160329	3
	Sb	121	0.316	ug/L	0.007	2	25	3014	3
	Sb	123	0.315	ug/L	0.004	1	20	2270	3
	Ba	135	35.870	ug/L	0.381	1	15	78766	3
	Ba	137	35.918	ug/L	0.125	0	22	133840	2
>	Tb	159		ug/L			467702	369375	3
	Tl	205	22.566	ug/L	0.199	0	34	597876	2
	Pb	208	23.619	ug/L	0.310	1	244	848791	2
	Bi	209		ug/L			375879	270638	2
	Th	232	22.793	ug/L	0.164	0	177	1181178	2
	U	238	24.004	ug/L	0.385	1	29	1327378	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 20:54:29
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	419471	3
[	Be	9	0.004	ug/L	0.008	199	2	4	75
	C	13		mg/L			5140	6402	2
	Cl	37		mg/L			2489408	2186047	1
[>	Sc	45		ug/L			273386	268403	3
|	V-1	51	0.696	ug/L	0.010	1	2122	11031	2
|	V	51	0.682	ug/L	0.011	1	767	9734	1
|	Cr	52	0.268	ug/L	0.003	0	6539	9437	3
|	Cr	53	0.256	ug/L	0.023	8	305	651	3
|	Mn	55	327.376	ug/L	2.006	0	899	6263474	2
[	Co	59	0.174	ug/L	0.003	1	48	2632	4
[>	Ge	72		ug/L			392434	299803	2
|	Ni	60	1.010	ug/L	0.016	1	47	2542	0
|	Ni	62	1.677	ug/L	0.144	8	85	699	6
|	Cu	63	2.500	ug/L	0.031	1	279	14383	2
|	Cu	65	0.609	ug/L	0.017	2	93	1726	3
|	Zn	66	0.680	ug/L	0.032	4	751	1774	3
|	Zn	67	0.888	ug/L	0.028	3	145	381	4
|	Zn	68	1.655	ug/L	0.275	16	8019	8174	1
|	As-1	75	13.449	ug/L	0.048	0	-39	21177	2
|	As	75	13.977	ug/L	0.196	1	8849	28942	1
|	Se	82	0.246	ug/L	0.027	10	-12	29	12
|	Se	78	2.586	ug/L	0.624	24	9032	7973	1
[	Mo	98	0.052	ug/L	0.002	3	1392	1355	1
	Y	89		ug/L			310463	244809	2
	Kr	83		ug/L			81	63	11
[>	In	115		ug/L			464469	356396	2
|	Ag	107	0.010	ug/L	0.000	2	27	130	4
|	Cd	111	-0.120	ug/L	0.021	17	218	-175	35
|	Cd	114	0.003	ug/L	0.001	33	68	72	11
|	Sb	121	0.363	ug/L	0.005	1	25	3657	2
|	Sb	123	0.381	ug/L	0.009	2	20	2901	1
|	Ba	135	9.843	ug/L	0.063	0	15	22861	2
[	Ba	137	9.933	ug/L	0.158	1	22	39152	2
[>	Tb	159		ug/L			467702	383169	2
|	Tl	205	0.006	ug/L	0.001	10	34	191	10
|	Pb	208	0.097	ug/L	0.001	1	244	3828	3
|	Bi	209		ug/L			375879	278881	2
|	Th	232	0.051	ug/L	0.008	15	177	2921	16
[	U	238	0.130	ug/L	0.001	0	29	7491	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU74 A REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 21:01:05
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	**Li**	**6**		ug/L			477376	399262	0
	Be	**9**	**0.022**	ug/L	0.011	49	2	11	38
	C	**13**		mg/L			5140	5923	1
	Cl	**37**		mg/L			2489408	2179856	0
>	**Sc**	**45**		ug/L			273386	229583	1
	V-1	**51**	**0.951**	ug/L	0.021	2	2122	12239	2
	V	**51**	**1.041**	ug/L	0.007	0	767	12365	2
	Cr	**52**	**0.587**	ug/L	0.014	2	6539	11139	0
	Cr	**53**	**0.889**	ug/L	0.042	4	305	1299	3
	Mn	**55**	**3.680**	ug/L	0.041	1	899	60974	1
	Co	**59**	**0.104**	ug/L	0.001	1	48	1362	0
>	**Ge**	**72**		ug/L			392434	278765	1
	Ni	**60**	**6.849**	ug/L	0.059	0	47	15837	1
	Ni	**62**	**6.411**	ug/L	0.261	4	85	2317	2
	Cu	**63**	**0.594**	ug/L	0.020	3	279	3330	3
	Cu	**65**	**0.539**	ug/L	0.019	3	93	1426	3
	Zn	**66**	**1.159**	ug/L	0.020	1	751	2436	0
	Zn	**67**	**1.184**	ug/L	0.124	10	145	437	7
	Zn	**68**	**2.420**	ug/L	0.082	3	8019	8487	0
	As-1	**75**	**0.283**	ug/L	0.012	4	-39	387	3
	As	**75**	**1.256**	ug/L	0.061	4	8849	8139	0
	Se	**82**	**0.329**	ug/L	0.057	17	-12	39	20
	Se	**78**	**4.073**	ug/L	0.212	5	9032	7993	0
	Mo	**98**	**-0.160**	ug/L	0.002	0	1392	155	5
	Y	**89**		ug/L			310463	226214	1
	Kr	**83**		ug/L			81	65	9
>	**In**	**115**		ug/L			464469	332727	1
	Ag	**107**	**0.004**	ug/L	0.001	28	27	55	17
	Cd	**111**	**0.021**	ug/L	0.003	12	218	212	3
	Cd	**114**	**0.017**	ug/L	0.003	18	68	155	11
	Sb	**121**	**0.036**	ug/L	0.001	3	25	355	3
	Sb	**123**	**0.035**	ug/L	0.000	0	20	263	0
	Ba	**135**	**11.056**	ug/L	0.127	1	15	23972	1
	Ba	**137**	**11.149**	ug/L	0.136	1	22	41031	1
>	**Tb**	**159**		ug/L			467702	357150	1
	Tl	**205**	**0.005**	ug/L	0.000	2	34	160	3
	Pb	**208**	**0.048**	ug/L	0.002	4	244	1867	2
	Bi	**209**		ug/L			375879	272774	0
	Th	**232**	**0.019**	ug/L	0.001	3	177	1110	1
	U	**238**	**0.034**	ug/L	0.001	3	29	1824	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU74 B REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 21:07:41
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	392317	2
[	Be	9	0.014	ug/L	0.011	79	2	7	55
	C	13		mg/L			5140	5644	1
	Cl	37		mg/L			2489408	1933722	0
[>	Sc	45		ug/L			273386	229683	2
[	V-1	51	1.597	ug/L	0.027	1	2122	19349	2
[	V	51	1.578	ug/L	0.022	1	767	18420	2
[	Cr	52	0.247	ug/L	0.027	11	6539	7869	3
[	Cr	53	0.286	ug/L	0.022	7	305	592	2
[	Mn	55	191.504	ug/L	1.895	0	899	3136044	2
[	Co	59	1.698	ug/L	0.016	0	48	21598	3
[>	Ge	72		ug/L			392434	275637	1
[	Ni	60	8.261	ug/L	0.136	1	47	18883	3
[	Ni	62	7.889	ug/L	0.266	3	85	2806	3
[	Cu	63	1.359	ug/L	0.008	0	279	7277	2
[	Cu	65	1.382	ug/L	0.016	1	93	3518	2
[	Zn	66	1.251	ug/L	0.053	4	751	2557	1
[	Zn	67	2.607	ug/L	0.089	3	145	831	3
[	Zn	68	3.397	ug/L	0.102	2	8019	9505	0
[	As-1	75	0.656	ug/L	0.011	1	-39	923	1
[	As	75	1.535	ug/L	0.132	8	8849	8454	0
[	Se	82	0.354	ug/L	0.026	7	-12	43	7
[	Se	78	3.781	ug/L	0.477	12	9032	7790	0
[	Mo	98	-0.082	ug/L	0.006	7	1392	556	6
	Y	89		ug/L			310463	228272	3
	Kr	83		ug/L			81	69	6
[>	In	115		ug/L			464469	329081	2
[	Ag	107	0.003	ug/L	0.001	38	27	53	26
[	Cd	111	0.044	ug/L	0.010	22	218	268	7
[	Cd	114	0.042	ug/L	0.002	4	68	309	2
[	Sb	121	0.073	ug/L	0.001	1	25	691	1
[	Sb	123	0.073	ug/L	0.002	2	20	523	3
[	Ba	135	64.266	ug/L	0.819	1	15	137751	2
[	Ba	137	64.511	ug/L	0.977	1	22	234737	2
[>	Tb	159		ug/L			467702	354711	3
[	Tl	205	0.006	ug/L	0.001	10	34	175	12
[	Pb	208	U 0.048	ug/L	0.001	2	244	1846	3
[	Bi	209		ug/L			375879	271280	2
[	Th	232	0.018	ug/L	0.002	8	177	1020	8
[	U	238	0.038	ug/L	0.002	4	29	2033	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU74 C REN
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 10, 2011 21:14:17
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	373899	2
[	Be	9	0.015	ug/L	0.005	32	2	7	24
	C	13		mg/L			5140	5120	1
	Cl	37		mg/L			2489408	1849513	0
[>	Sc	45		ug/L			273386	223339	2
[	V-1	51	1.692	ug/L	0.021	1	2122	19826	3
[	V	51	1.686	ug/L	0.015	0	767	19104	2
[	Cr	52	0.205	ug/L	0.002	0	6539	7264	1
[	Cr	53	0.298	ug/L	0.023	7	305	590	3
[	Mn	55	9.809	ug/L	0.041	0	899	156894	2
[	Co	59	0.099	ug/L	0.002	2	48	1258	3
[>	Ge	72		ug/L			392434	259730	1
[	Ni	60	12.707	ug/L	0.233	1	47	27343	1
[	Ni	62	12.305	ug/L	0.333	2	85	4093	4
[	Cu	63	0.555	ug/L	0.015	2	279	2909	4
[	Cu	65	0.627	ug/L	0.018	2	93	1536	3
[	Zn	66	1.093	ug/L	0.045	4	751	2169	1
[	Zn	67	1.606	ug/L	0.078	4	145	519	5
[	Zn	68	2.778	ug/L	0.030	1	8019	8292	1
[	As-1	75	0.429	ug/L	0.003	0	-39	560	2
[	As	75	1.450	ug/L	0.071	4	8849	7849	0
[	Se	82	0.486	ug/L	0.002	0	-12	58	1
[	Se	78	4.369	ug/L	0.294	6	9032	7553	0
[	Mo	98	-0.155	ug/L	0.002	0	1392	171	2
	Y	89		ug/L			310463	216431	2
	Kr	83		ug/L			81	55	5
[>	In	115		ug/L			464469	308081	2
[	Ag	107	0.004	ug/L	0.000	9	27	53	8
[	Cd	111	0.076	ug/L	0.005	7	218	330	3
[	Cd	114	0.055	ug/L	0.007	12	68	368	9
[	Sb	121	0.042	ug/L	0.003	7	25	377	5
[	Sb	123	0.040	ug/L	0.002	5	20	278	6
[	Ba	135	25.335	ug/L	0.195	0	15	50857	2
[	Ba	137	25.409	ug/L	0.099	0	22	86562	1
[>	Tb	159		ug/L			467702	339465	1
[	Tl	205	0.005	ug/L	0.001	13	34	137	11
[	Pb	208	U 0.036	ug/L	0.001	3	244	1382	3
[	Bi	209		ug/L			375879	254399	1
[	Th	232	0.008	ug/L	0.001	11	177	528	9
[	U	238	0.075	ug/L	0.001	1	29	3829	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 I REN
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 10, 2011 21:20:50
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
⌈>	Li	6		ug/L			477376	360158	1
⌊	Be	9	0.001	ug/L	0.000	9	2	2	
	C	13		mg/L			5140	3991	1
	Cl	37		mg/L			2489408	1856150	0
⌈>	Sc	45		ug/L			273386	194158	0
|	V-1	51	2.487	ug/L	0.036	1	2122	24627	0
|	V	51	2.493	ug/L	0.022	0	767	24291	0
|	Cr	52	0.968	ug/L	0.014	1	6539	12522	1
|	Cr	53	1.098	ug/L	0.043	3	305	1307	3
|	Mn	55	247.374	ug/L	0.842	0	899	3424212	0
⌊	Co	59	0.118	ug/L	0.002	1	48	1298	1
⌈>	Ge	72		ug/L			392434	248175	0
|	Ni	60	0.376	ug/L	0.018	4	47	802	4
|	Ni	62	0.198	ug/L	0.006	3	85	116	1
|	Cu	63	0.591	ug/L	0.009	1	279	2951	1
|	Cu	65	0.114	ug/L	0.010	8	93	314	6
|	Zn	66	0.383	ug/L	0.008	2	751	1034	1
|	Zn	67	0.551	ug/L	0.073	13	145	230	8
|	Zn	68	1.797	ug/L	0.097	5	8019	6916	1
|	As-1	75	0.191	ug/L	0.009	4	-39	224	5
|	As	75	1.336	ug/L	0.074	5	8849	7352	0
|	Se	82	0.419	ug/L	0.016	3	-12	47	5
|	Se	78	4.865	ug/L	0.265	5	9032	7389	0
⌊	Mo	98	-0.116	ug/L	0.004	3	1392	343	5
	Y	89		ug/L			310463	206108	0
	Kr	83		ug/L			81	65	6
⌈>	In	115		ug/L			464469	290927	0
|	Ag	107	0.005	ug/L	0.001	14	27	63	10
|	Cd	111	-0.012	ug/L	0.011	94	218	109	23
|	Cd	114	-0.003	ug/L	0.001	28	68	24	20
|	Sb	121	0.019	ug/L	0.001	7	25	172	6
|	Sb	123	0.020	ug/L	0.001	5	20	139	5
|	Ba	135	3.747	ug/L	0.031	0	15	7111	1
⌊	Ba	137	3.757	ug/L	0.043	1	22	12097	0
⌈>	Tb	159		ug/L			467702	325088	0
|	Tl	205	0.002	ug/L	0.001	48	34	68	31
|	Pb	208	0.022	ug/L	0.001	6	244	879	4
|	Bi	209		ug/L			375879	241131	0
|	Th	232	0.005	ug/L	0.000	9	177	348	5
⌊	U	238	0.020	ug/L	0.001	3	29	978	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 21:27:17
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
>	Li	6		ug/L			477376	384692	1
	Be	9	47.060	ug/L	0.892	1	2	18030	1
	C	13		mg/L			5140	3423	0
	Cl	37		mg/L			2489408	1831589	0
>	Sc	45		ug/L			273386	184168	0
	V-1	51	50.311	ug/L	0.706	1	2122	445110	1
	V	51	50.305	ug/L	0.481	0	767	455002	1
	Cr	52	49.959	ug/L	0.470	0	6539	390126	1
	Cr	53	49.966	ug/L	0.540	1	305	47247	0
	Mn	55	50.514	ug/L	0.287	0	899	663724	0
	Co	59	50.240	ug/L	0.344	0	48	511456	0
>	Ge	72		ug/L			392434	262087	0
	Ni	60	49.781	ug/L	0.413	0	47	108015	0
	Ni	62	48.973	ug/L	0.308	0	85	16264	0
	Cu	63	50.168	ug/L	0.047	0	279	248780	0
	Cu	65	50.054	ug/L	0.180	0	93	118968	0
	Zn	66	49.359	ug/L	0.490	0	751	76686	0
	Zn	67	48.670	ug/L	1.124	2	145	13045	2
	Zn	68	51.462	ug/L	0.417	0	8019	61157	0
	As-1	75	49.648	ug/L	0.222	0	-39	68416	0
	As	75	50.127	ug/L	0.168	0	8849	75467	0
	Se	82	51.777	ug/L	0.745	1	-12	7222	1
	Se	78	53.630	ug/L	0.549	1	9032	25565	0
	Mo	98	51.204	ug/L	0.462	0	1392	251183	1
	Y	89		ug/L			310463	213307	1
	Kr	83		ug/L			81	77	5
>	In	115		ug/L			464469	309271	1
	Ag	107	50.138	ug/L	0.046	0	27	480644	1
	Cd	111	49.956	ug/L	0.272	0	218	123324	1
	Cd	114	50.417	ug/L	0.418	0	68	296749	0
	Sb	121	51.415	ug/L	0.627	1	25	447579	0
	Sb	123	51.438	ug/L	0.771	1	20	338177	0
	Ba	135	50.549	ug/L	0.332	0	15	101838	1
	Ba	137	51.167	ug/L	0.530	1	22	174968	1
>	Tb	159		ug/L			467702	344267	1
	Tl	205	45.488	ug/L	0.319	0	34	1123427	0
	Pb	208	46.946	ug/L	0.362	0	244	1572661	0
	Bi	209		ug/L			375879	263220	1
	Th	232	48.133	ug/L	0.487	1	177	2325106	1
	U	238	48.784	ug/L	0.231	0	29	2515391	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 10, 2011 21:34:30
Number of Replicates: 3
Method File: c:\elandata\Method\2008LoNoMinNoRh.mth
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Calibration File: C:\Elandata\Caldata\051011.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			477376	382748	0
[	Be	9	0.007	ug/L	0.007	93	2	5	50
	C	13		mg/L			5140	3470	1
	Cl	37		mg/L			2489408	1799436	0
[>	Sc	45		ug/L			273386	180801	0
[	V-1	51	0.018	ug/L	0.015	78	2122	1563	7
[	V	51	-0.006	ug/L	0.004	67	767	457	6
[	Cr	52	0.041	ug/L	0.024	58	6539	4637	3
[	Cr	53	-0.034	ug/L	0.012	35	305	170	7
[	Mn	55	0.012	ug/L	0.003	21	899	749	4
[	Co	59	0.006	ug/L	0.000	7	48	88	5
[>	Ge	72		ug/L			392434	256693	0
[	Ni	60	0.003	ug/L	0.003	113	47	37	18
[	Ni	62	0.038	ug/L	0.010	26	85	68	4
[	Cu	63	-0.002	ug/L	0.004	204	279	173	11
[	Cu	65	0.002	ug/L	0.002	86	93	66	7
[	Zn	66	-0.255	ug/L	0.012	4	751	106	16
[	Zn	67	-0.235	ug/L	0.030	12	145	33	23
[	Zn	68	0.746	ug/L	0.051	6	8019	6038	0
[	As-1	75	0.014	ug/L	0.009	64	-39	-7	163
[	As	75	1.125	ug/L	0.007	0	8849	7317	0
[	Se	82	0.045	ug/L	0.066	146	-12	-2	427
[	Se	78	4.326	ug/L	0.047	1	9032	7451	0
[	Mo	98	-0.168	ug/L	0.003	1	1392	106	14
	Y	89		ug/L			310463	212518	1
	Kr	83		ug/L			81	61	13
[>	In	115		ug/L			464469	308243	0
[	Ag	107	0.009	ug/L	0.001	7	27	101	5
[	Cd	111	-0.012	ug/L	0.005	39	218	115	10
[	Cd	114	-0.003	ug/L	0.001	37	68	28	20
[	Sb	121	0.013	ug/L	0.003	24	25	131	20
[	Sb	123	0.015	ug/L	0.002	11	20	110	9
[	Ba	135	0.004	ug/L	0.001	24	15	18	11
[	Ba	137	0.005	ug/L	0.003	57	22	31	31
[>	Tb	159		ug/L			467702	339871	0
[	Tl	205	0.005	ug/L	0.001	11	34	142	9
[	Pb	208	0.005	ug/L	0.000	9	244	330	4
[	Bi	209		ug/L			375879	263442	0
[	Th	232	0.043	ug/L	0.003	7	177	2164	7
[	U	238	0.006	ug/L	0.001	18	29	316	17

end package

General Chemistry Raw Data
Analyst Notes and Raw Data

ARI Job ID: SU53, SU73, SU74

pH EPA 150.1 No: 267
Data Analyst: Kristine E. Teffeau Analyzed by: KET
Comments: Date Analyzed: 4/28/11
Print Date: 4/29/11 10:40 Time Analyzed: 12:10

	ARI ID	Result	Q	RL	SPK	UAD
1.	ICVL	7.03		0.01	7.00	0.03
2.	SU27A	6.56		0.01		
3.	SU27A DUP	6.55		0.01		0.01
4.	SU27B	6.79		0.01		
5.	SU27C	6.88		0.01		
6.	CCVL	7.04		0.01	7.00	0.04
7.	CCVL	7.01		0.01	7.00	0.01
8.	SU45A	6.89		0.01		
9.	SU45A DUP	6.92		0.01		0.03
10.	SU45B	6.96		0.01		
11.	SU45C	7.10		0.01		
12.	SU47A	6.81		0.01		
13.	SU47A DUP	6.84		0.01		0.03
14.	SU47B	7.44		0.01		
15.	CCVL	7.05		0.01	7.00	0.05
16.	SU53A	6.30		0.01		
17.	SU53A DUP	6.31		0.01		0.01
18.	SU53B	7.45		0.01		
19.	SU53C	6.51		0.01		
20.	SU53D	7.63		0.01		
21.	SU53E	6.55		0.01		
22.	CCVL	7.04		0.01	7.00	0.04
23.	SU53F	6.75		0.01		
24.	CCVL	7.05		0.01	7.00	0.05

Analytical Resources, Incorporated
Analytical Chemists and Consultants

pH Logbook

Analyst: (D) Date: 4-28-11

Meter ID: Accumet AR60 Time: 12:10

Calibration

Date:	4-28-11	Buffer	Source	Lot #	pH	Temp.
Time:	12:10	2.00	Ricca	1006441	2.00	21.8
Analyst:	(D)	4.00	fisher	102493	4.00	21.8
		7.00	Ricca	1008595	7.01	21.8
		10.00	fisher	101681	10.04	21.9
		12.00	Ricca	1008411	11.96	21.8
		Verification	fisher	106355	7.03	21.1
Electrolyte Check (analysts initials):						

Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	7.03	7.03				21.1
SU27 A4	6.56	6.55				21.4
↓ B4	6.79	6.78				20.9
↓ C3	6.88	6.88				21.0
CCV	7.04	7.04				21.3
CCV	7.01	7.00				21.6
SU45 A7	6.89	6.92				20.1
↓ B7	6.96	6.97				20.0
↓ C7	7.10	7.09				20.2
SU47 A7	6.81	6.84				20.0
↓ B7	7.44	7.47				20.2
CCV	7.05	7.05				21.8
SU52 K4	6.91	6.92			BOD	17.5
↓ L4	7.33	7.34			BOD	17.5
↓ M4	7.36	7.36			BOD	15.6
↓ N4	7.23	7.23			BOD	15.0
↓ O4	6.83	6.61	6.51	6.47	BOD	17.5
SU53 A1	6.30	6.31				21.8
↓ B1	7.45	7.49				20.2
↓ C1	6.51	6.51				20.7
↓ D1	7.63	7.63				21.6
↓ E1	6.55	6.55				21.5
CCV	7.04	7.04				22.0

KBT 17:50

Analytical Resources, Incorporated
Analytical Chemists and Consultants

pH Logbook

Analyst: _____ Date: _____

Meter ID: Accumet AR60 Time: _____

Calibration

Date:		Buffer	Source	Lot #	pH	Temp.
Time:		2.00				
Analyst:		4.00				
		7.00	continued from page 01330			
		10.00				
		12.00				
		Verification				
	Electrolyte Check (analysts initials):					

Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV						
SU53 F1	6.75	6.76				21.6
CCV	7.05	7.05				22.5
CCV			KST 4/28/11			
CCV						

LJ
5-4-11

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS) DATE: 5/3/2011

Methods : SM 2540 D-97, 2540 E-97 ANALYST: CDE 14:25

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

Muffle Furnace: NA

make no entries to shaded cells
they are calculated !!

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ ml Sample] * 1000
if dy wt < 1mg, TSS = <1mg / mL sample * 1000
with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -((min ash wt - tare wt) * 1000)
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000
with "<" flag

LCS source: *Cellulose, MP Biomedicals Lot# **6399J*** 0.05 grams to 1000 mL = **50** ***mg/L TSS***

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams) 1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams) 1	2	3	4	LOI (mg)	TVSS (mg/l)
Cal Weight ID			CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02		
Date & Time				5/3/11 16:02	5/3/11 17:34										
Cal Wt (g) 10.0000				10.0000	10.0000										
record weights to 4 places				*Cal OK!*	*Cal OK!*										
BLANK		1000	0.1162	0.1162	0.1162	STOP		0.0	**< 1**						
LCS # 574-9		1000	0.1187	0.1683	0.1683	STOP		49.6	**49.6**	99.2%	% Recovery				
SU45 A8		180	0.1187	0.1380	0.1380	STOP		19.3	**107.2**						
SU45 A8 dup		180	0.1185	0.1384	0.1382	STOP		19.7	**109.4**						
								RPD =	*2.0%*					*RPD =*	*NA*
SU45 B8		450	0.1167	0.1330	0.1328	STOP		16.1	**35.8**						
SU45 C8		570	0.1166	0.1266	0.1266	STOP		10.0	**17.5**						
SU45 D1		470	0.1162	0.1525	0.1524	STOP		36.2	**77.0**						
SU47 A8		620	0.1154	0.1439	0.1439	STOP		28.5	**46.0**						
SU47 B8		730	0.1188	0.1464	0.1464	STOP		27.6	**37.8**						
SU53 A2		925	0.1160	0.1201	0.1199	STOP		3.9	**4.2**						
SU53 B2		965	0.1179	0.1220	0.1219	STOP		4.0	**4.1**						
SU53 C2		950	0.1179	0.1205	0.1204	STOP		2.5	**2.6**						
SU53 D2		980	0.1186	0.1304	0.1306	STOP		11.8	**12.0**						
SU53 E2		960	0.1185	0.1206	0.1206	STOP		2.1	**2.2**						
SU53 F2		600	0.1194	0.1333	0.1333	STOP		13.9	**23.2**						
SU52 A1		920	0.1190	0.1264	0.1263	STOP		7.3	**7.9**						
SU62 A2 dup		915	0.1168	0.1235	0.1235	STOP		6.7	**7.3**						
								RPD =	*7.9%*					*RPD =*	*NA*
SU62 B1-2		1000	0.1170	0.1171	0.1172	STOP		0.1	**< 1**						
SU62 C1-2		1000	0.1169	0.1174	0.1174	STOP		0.5	**< 1**						

SU53 6054

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS) DATE: 5/3/2011

Methods : SM 2540 D-97, 2540 E-97 ANALYST: CDE 14:25

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

Muffle Furnace: NA

make no entries to shaded cells
they are calculated !!

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ ml Sample] * 1000
if dy wt < 1mg, TSS = <1mg / mL sample * 1000
with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -((min ash wt - tare wt) * 1000)
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000
with "<" flag

LCS source: *Cellulose, MP Biomedicals Lot# **6399J*** 0.05 grams to 1000 mL = **50** ***mg/L TSS***

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams) 1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams) 1	2	3	4	LOI (mg)	TVSS (mg/l)
SU64 A3		470	0.1162	0.1365	0.1365	STOP		20.3	**43.2**						
SU64 A3 dup		470	0.1181	0.1386	0.1387	STOP		20.5	**43.6**						
								RPD =	*0.9%*					*RPD =*	*NA*
SU85 A1		940	0.1157	0.1221	0.1221	STOP		6.4	**6.8**						
SU74 A8		910	0.1174	0.1206	0.1206	STOP		3.2	**3.5**						
SU74 B8		930	0.1170	0.1192	0.1192	STOP		2.2	**2.4**						
SU74 C1		885	0.1194	0.1227	0.1227	STOP		3.3	**3.7**						

test : SUSS 3955

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID(TVSS) BENCHSHEET

Analyst:	ow	Date/Time:	5-3-11 14:25	Oven #:	12	Muffle Furnance:	N/A	Balance:	1123230597

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

TSS (mg/L) calculated as:
Final Dry Weight (mg) = (Min Dry Weight – Tare Weight) * 1000
TSS = (Final Dry Weight) / (mL Sample) * 1000
If dry wt < 1 mg / mL sample * 1000 use "<" flag

Loss on Ignition (LOI) = TVSS (mg / L) is calculated as:
LOI (mg / L) = Dry Weight (mg) – [(Minimum Ash Weight – Tare Weight) * 1000]
TVSS (mg / L) = LOI / mL sample * 1,000
If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "<" flag

LCS (Cellulose from MP Biochemicals) Lott #		6399J	0.0500 Gram to 1000 mL = **50 mg / L TSS**					
Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02
Date & Time:			5-3-11 16:02	5-3-11 12:34				
Cal Weight (10.0000g):			10.0000 ow	10.0000 ow				

Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams) 1	2	3	Dry Wt mg	TSS	Ash Weight 550°C 1	2	LOI - mg	TVSS mg/L
BLANK	P1000	1000	0.1162	0.1162	0.1162							
LCS#5749	P1933	↓	0.1187	0.1683	0.1683							
SU45 A8	34	180	0.1187	0.1380	0.1380							
A8dp	35	↓	0.1185	0.1384	0.1382							
B8	36	450	0.1167	0.1330	0.1328							
C8	37	570	0.1166	0.1266	0.1266							
D1	38	470	0.1162	0.1525	0.1524							
SU47 A8	39	620	0.1154	0.1439	0.1439	5-3-11 ow						
B8	40	730	0.1188	0.1464	~~0.1463~~	0.1464						
SU53 A2	441	925	0.1160	0.1201	0.1199							
B2	442	965	0.1179	0.1220	0.1219							
C2	443	950	0.1179	0.1205	0.1204							
D2	444	980	0.1186	0.1304	0.1306							
E2	445	960	0.1185	0.1206	0.1206							
F2	446	600	0.1194	0.1333	0.1333							
SU62 A1	447	920	0.1190	0.1264	0.1263							
A2dP	448	915	0.1168	0.1235	0.1235							
B1-2	449	1000	0.1170	0.1171	0.1172							
C1-2	490	↓	0.1169	0.1174	0.1174							
SU64 A3	501	470	0.1162	0.1365	0.1365							
A3dP	512	↓	0.1181	0.1386	0.1387							

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6054F

Revision 002
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SU53 : 01435

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID(TVSS) BENCHSHEET

Analyst:	005	Date/Time:	5-3-11	Oven #:		Muffle Furnace:		Balance:	1123230597

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

TSS (mg/L) calculated as:
Final Dry Weight (mg) = (Min Dry Weight – Tare Weight) * 1000
TSS = (Final Dry Weight) / (mL Sample) * 1000
If dry wt < 1 mg / mL sample * 1000 use "<" flag

Loss on Ignition (LOI) = TVSS (mg / L) is calculated as:
LOI (mg / L) = Dry Weight (mg) – [(Minimum Ash Weight – Tare Weight) * 1000]
TVSS (mg / L) = LOI / mL sample * 1,000
If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "<" flag

LCS (Cellulose from MP Biochemicals) Lott # **6399J** 0.0500 Gram to 1000 mL = **50 mg / L TSS**

Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02
Date & Time:							
Cal Weight (10.0000g):							

Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams) 1	2	3	Dry Wt mg	TSS	Ash Weight 550°C 1	2	LOI - mg	TVSS mg/L
~~BLANK~~				5-3-11								
SU85 A'	A9953	940	0.1157	0.1221	0.1221							
SU74 A8	4	910	0.1174	0.1206	0.1206							
B8	5	930	0.1170	0.1192	0.1192							
C'	6	885	0.1194	0.1227	0.1227							

5-3-11

6054F

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Revision 002
12/28/09

3957

SU53:01436

pH EPA 150.1 No: 1024
Data Analyst: Kristine E. Teffeau Analyzed by: KET
Comments: Date Analyzed: 4/29/11
Print Date: 5/ 2/11 14:17 Time Analyzed: 17:12

	ARI ID	Result	Q	RL	SPK	UAD
1.	ICVL	6.98		0.01	7.00	0.02
2.	SU73A	6.92		0.01		
3.	SU73A DUP	6.94		0.01		0.02
4.	SU73B	6.94		0.01		
5.	SU74A	5.91		0.01		
6.	SU74A DUP	5.91		0.01		0.00
7.	SU74B	6.02		0.01		
8.	CCVL	7.05		0.01	7.00	0.05
9.	SU74C	5.87		0.01		
10.	CCVL	7.05		0.01	7.00	0.05

Analytical Resources, Incorporated
Analytical Chemists and Consultants

pH Logbook

Analyst: CAC Date: 4-29-11

Meter ID: Orion Model 728 Time: 11:30

Calibration

Date:		Buffer	Source	Lot #	pH	Temp.
Time:		2.00	Ricca	1006441	2.00	22.1
Analyst:		4.00	fisher	102493	4.00	22.1
		7.00	Ricca	1008598	7.01	22.1
		10.00	fisher	101681	10.04	22.1
		12.00	Ricca	1008411	12.09	22.1
		Verification	fisher	106355	7.05	21.9

Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	6.98	6.98				23.0
SU69 A3	6.74	6.78			BOD	17.6
B3	7.69	7.72				17.5
C3	8.57	8.59	6.23	6.25		17.8
D3	8.15	8.15				17.7
E3	8.30	8.32				18.0
F3	8.55	8.57	6.23	6.25		18.3
SU73 A1	6.92	6.94				21.3
B1	6.94	6.96				21.6
SU74 A(1)	5.91	5.91				21.1
B1	6.02	6.01				21.9
CCV	7.05	7.04				23.3
SU74 C1	5.87	5.89				21.6
CCV	7.05	7.05				23.2
CCV						

KBT 17:12

KBT 4/29/11

KBT 4/29/11

w
5-4-11

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

Methods : SM 2540 D-97, 2540 E-97

DATE: 5/4/2011
ANALYST: CDE 13:05

Instrumentation — ***Drying Ovens:*** 12 — ***Muffle Furnace:*** NA — ***Analytical Balance:*** 1123230597

make no entries to shaded cells
they are calculated !!

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ ml Sample] * 1000
if dy wt < 1mg, TSS = <1mg / mL sample * 1000
with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -((min ash wt - tare wt) * 1000)
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000
with "<" flag

LCS source: *Cellulose, MP Biomedicals Lot# 6399J* 0.05 grams to 1000 mL = **50** ***mg/L TSS***

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams) 1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams) 1	2	3	4	LOI (mg)	TVSS (mg/l)
Cal Weight ID			CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02		
Date & Time				5/4/11 14:49	5/4/11 16:56										
Cal Wt (g) 10.0000				10.0000	10.0000										
record weights to 4 places				*Cal OK!*	*Cal OK!*										
BLANK		1000	0.1168	0.1166	0.1167	STOP		-0.2	**< 1**						
LCS # 574-10		1000	0.1187	0.1671	0.1671	STOP		48.4	**48.4**	96.8%	% Recovery				
SU73 A8		910	0.1160	0.1225	0.1224	STOP		6.4	**7.0**						
SU73 B8		915	0.1181	0.1244	0.1244	STOP		6.3	**6.9**						
SU94 A4		940	0.1170	0.1171	0.1169	STOP		-0.1	**< 1.1**						
SU98 A8		200	0.1165	0.1293	0.1291	STOP		12.6	**63.0**						
SU98 A8 dup		200	0.1169	0.1307	0.1306	STOP		13.7	**68.5**						
								RPD =	*8.4%*					*RPD =*	*NA*
SU98 B8		400	0.1165	0.1226	0.1225	STOP		6.0	**15.0**						
SV03 A1		770	0.1180	0.1229	0.1229	STOP		4.9	**6.4**						
SV13 A1		885	0.1166	0.1169	0.1169	STOP		0.3	**< 1.1**						
SV13 B1		930	0.1169	0.1176	0.1174	STOP		0.5	**< 1.1**						
SV22 A1		100	0.1187	0.1350	0.1349	STOP		16.2	**162.0**						
SV22 A1 dup		100	0.1174	0.1340	0.1339	STOP		16.5	**165.0**						
								RPD =	*1.8%*					*RPD =*	*NA*
SV24 C1		350	0.1171	0.1257	0.1256	STOP		8.5	**24.3**						
SV24 C1 dup		350	0.1166	0.1252	0.1251	STOP		8.5	**24.3**						
								RPD =	*0.0%*					*RPD =*	*NA*
SV35 B1		930	0.1183	0.1184	0.1183	STOP		0.0	**< 1.1**						

3960
01439

05-4-11 CNC

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID(TVSS) BENCHSHEET

Analyst:	CNC	Date/Time:	5-4-11 13:05	Oven #:	12	Muffle Furnance:	N/A	Balance:	1123230597

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

TSS (mg/L) calculated as:
Final Dry Weight (mg) = (Min Dry Weight – Tare Weight) * 1000
TSS = (Final Dry Weight) / (mL Sample) * 1000
If dry wt < 1 mg / mL sample * 1000 use "<" flag

Loss on Ignition (LOI) = TVSS (mg / L) is calculated as:
LOI (mg / L) = Dry Weight (mg) – [(Minimum Ash Weight – Tare Weight) * 1000]
TVSS (mg / L) = LOI / mL sample * 1,000
If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "<" flag

LCS (Cellulose from MP Biochemicals) Lott #		6399J	0.0500 Gram to 1000 mL = **50 mg / L TSS**						
Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	
Date & Time:			5-4-11 14:49	5-4-11 16:56	5-4-11				
Cal Weight (10.0000g):			10.0000 CNC	10.0000 CNC					

Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams) 1	Dry Weight 104°C (grams) 2	Dry Weight 104°C (grams) 3	Dry Wt mg	TSS	Ash Weight 550°C 1	Ash Weight 550°C 2	LOI - mg	TVSS mg/L
BLANK	P9957	1000	0.1168	~~0.1168~~ 0.1166	0.1167							
LCS#574-10	P1001	↓	0.1187	~~0.1~~ 0.1671	0.1671							
~~ST8712~~												
SU73 A8	P1002	910	0.1160	0.1225	0.1224							
↓ B8	P1003	915	0.1181	0.1244	0.1244							
SU94 A4	P1004	940	0.1170	0.1171	0.1169							
SU98 A8	P1005	200	0.1165	0.1293	0.1291							
A8 dp	P1006	↓	0.1169	0.1307	0.1306							
↓ B8	P1007	400	0.1165	0.1226	0.1225							
SV03 A1	P1008	770	0.1180	0.1229	0.1229							
SV13 A1	P1009	885	0.1166	0.1169	0.1169							
↓ B1	P1010	930	0.1169	0.1176	0.1174							
SV22 A1	P1011	100	0.1187	0.1350	0.1349							
↓ A1 dp	P1012	↓	0.1174	0.1340	0.1339							
SV24 C1	P1013	350	0.1171	0.1257	0.1256							
↓ C1 dp	P1014	↓	0.1166	0.1252	0.1251							
SV35 B1	P1015	930	0.1183	0.1184	0.1183							

5-4-11 CNC

3961

SU53 : 01440

pH EPA 150.1 No: 1024
Data Analyst: Kristine E. Teffeau Analyzed by: KET
Comments: Date Analyzed: 4/29/11
Print Date: 5/ 2/11 14:17 Time Analyzed: 17:12

5/2/11

	ARI ID	Result	Q	RL	SPK	UAD
1.	ICVL	6.98		0.01	7.00	0.02
2.	SU73A	6.92		0.01		
3.	SU73A DUP	6.94		0.01		0.02
4.	SU73B	6.94		0.01		
5.	SU74A	5.91		0.01		
6.	SU74A DUP	5.91		0.01		0.00
7.	SU74B	6.02		0.01		
8.	CCVL	7.05		0.01	7.00	0.05
9.	SU74C	5.87		0.01		
10.	CCVL	7.05		0.01	7.00	0.05

Analytical Resources, Incorporated
Analytical Chemists and Consultants

pH Logbook

Analyst: CAC Date: 4-29-11

Meter ID: Orion Model 728 Time: 11:30

Calibration

Date:		Buffer	Source	Lot #	pH	Temp.
Time:		2.00	Ricca	1006441	2.00	22.1
Analyst:		4.00	fisher	102493	4.00	22.1
		7.00	Ricca	1008598	7.01	22.1
		10.00	fisher	101681	10.04	22.1
		12.00	Ricca	1008411	12.09	22.1
		Verification	fisher	106355	7.05	21.9

Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	6.98	6.98				23.0
SU69 A3	6.74	6.78			BOD	17.6
B3	7.69	7.72				17.5
C3	8.57	8.59	6.23	6.25		17.8
D3	8.15	8.15				17.7
E3	8.30	8.32				18.0
F3	8.55	8.57	6.23	6.25		18.3
SU73 A1	6.92	6.94				21.3
B1	6.94	6.96				21.6
SU74 A(1)	5.91	5.91				21.1
B1	6.02	6.01				21.9
CCV	7.05	7.04				23.3
SU74 C1	5.87	5.89				21.6
CCV	7.05	7.05				23.2
CCV						

KBT 17:12

KBT 4/29/11

KBT 4/29/11

w
5-4-11

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

Methods : SM 2540 D-97, 2540 E-97

DATE: 5/3/2011
ANALYST: CDE 14:25

Instrumentation ***Drying Ovens:*** 12 ***Analytical Balance:*** 1123230597
Muffle Furnace: NA

make no entries to shaded cells
they are calculated !!

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ ml Sample] * 1000
if dy wt < 1mg, TSS = <1mg / mL sample * 1000
with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -((min ash wt - tare wt) * 1000)
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000
with "<" flag

LCS source: *Cellulose, MP Biomedicals Lot# **6399J*** 0.05 grams to 1000 mL = **50** ***mg/L TSS***

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams) 1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams) 1	2	3	4	LOI (mg)	TVSS (mg/l)
Cal Weight ID			CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02		
Date & Time				5/3/11 16:02	5/3/11 17:34										
Cal Wt (g) 10.0000				10.0000	10.0000										
record weights to 4 places				*Cal OK!*	*Cal OK!*										
BLANK		1000	0.1162	0.1162	0.1162	STOP		0.0	**< 1**						
LCS # 574-9		1000	0.1187	0.1683	0.1683	STOP		49.6	**49.6**	99.2%	% Recovery				
SU45 A8		180	0.1187	0.1380	0.1380	STOP		19.3	**107.2**						
SU45 A8 dup		180	0.1185	0.1384	0.1382	STOP		19.7	**109.4**						
								RPD =	*2.0%*					*RPD =*	*NA*
SU45 B8		450	0.1167	0.1330	0.1328	STOP		16.1	**35.8**						
SU45 C8		570	0.1166	0.1266	0.1266	STOP		10.0	**17.5**						
SU45 D1		470	0.1162	0.1525	0.1524	STOP		36.2	**77.0**						
SU47 A8		620	0.1154	0.1439	0.1439	STOP		28.5	**46.0**						
SU47 B8		730	0.1188	0.1464	0.1464	STOP		27.6	**37.8**						
SU53 A2		925	0.1160	0.1201	0.1199	STOP		3.9	**4.2**						
SU53 B2		965	0.1179	0.1220	0.1219	STOP		4.0	**4.1**						
SU53 C2		950	0.1179	0.1205	0.1204	STOP		2.5	**2.6**						
SU53 D2		980	0.1186	0.1304	0.1306	STOP		11.8	**12.0**						
SU53 E2		960	0.1185	0.1206	0.1206	STOP		2.1	**2.2**						
SU53 F2		600	0.1194	0.1333	0.1333	STOP		13.9	**23.2**						
SU52 A1		920	0.1190	0.1264	0.1263	STOP		7.3	**7.9**						
SU62 A2 dup		915	0.1168	0.1235	0.1235	STOP		6.7	**7.3**						
								RPD =	*7.9%*					*RPD =*	*NA*
SU62 B1-2		1000	0.1170	0.1171	0.1172	STOP		0.1	**< 1**						
SU62 C1-2		1000	0.1169	0.1174	0.1174	STOP		0.5	**< 1**						

964

SU53 01443

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS) DATE: 5/3/2011

Methods : SM 2540 D-97, 2540 E-97 ANALYST: CDE 14:25

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

Muffle Furnace: NA

make no entries to shaded cells
they are calculated !!

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ ml Sample] * 1000
if dy wt < 1mg, TSS = <1mg / mL sample * 1000
with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -((min ash wt - tare wt) * 1000)
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000
with "<" flag

LCS source: *Cellulose, MP Biomedicals Lot# 6399J* 0.05 grams to 1000 mL = **50** ***mg/L TSS***

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams) 1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams) 1	2	3	4	LOI (mg)	TVSS (mg/l)
SU64 A3		470	0.1162	0.1365	0.1365	STOP		20.3	**43.2**						
SU64 A3 dup		470	0.1181	0.1386	0.1387	STOP		20.5	**43.6**						
								RPD =	*0.9%*					*RPD =*	*NA*
SU85 A1		940	0.1157	0.1221	0.1221	STOP		6.4	**6.8**						
SU74 A8		910	0.1174	0.1206	0.1206	STOP		3.2	**3.5**						
SU74 B8		930	0.1170	0.1192	0.1192	STOP		2.2	**2.4**						
SU74 C1		885	0.1194	0.1227	0.1227	STOP		3.3	**3.7**						

SU53:01444
3965

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID(TVSS) BENCHSHEET

Analyst:	GCh	Date/Time:	5-3-11 14:25	Oven #:	12	Muffle Furnance:	N/A	Balance:	1123230597

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

TSS (mg/L) calculated as:
Final Dry Weight (mg) = (Min Dry Weight – Tare Weight) * 1000
TSS = (Final Dry Weight) / (mL Sample) * 1000
If dry wt < 1 mg / mL sample * 1000 use "<" flag

Loss on Ignition (LOI) = TVSS (mg / L) is calculated as:
LOI (mg / L) = Dry Weight (mg) – [(Minimum Ash Weight – Tare Weight) * 1000]
TVSS (mg / L) = LOI / mL sample * 1,000
If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "<" flag

LCS (Cellulose from MP Biochemicals) Lott #		6399J	0.0500 Gram to 1000 mL = **50 mg / L TSS**				
Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02
Date & Time:			5-3-11 16:02	5-3-11 12:34			
Cal Weight (10.0000g):			10.0000 GCh	10.0000 GCh			

Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams) 1	2	3	Dry Wt mg	TSS	Ash Weight 550°C 1	2	LOI - mg	TVSS mg/L
BLANK	P1000	1000	0.1162	0.1162	0.1162							
LCS#5749	P1933	↓	0.1187	0.1683	0.1683							
SU45 A8	34	180	0.1187	0.1380	0.1380							
A8dp	35	↓	0.1185	0.1384	0.1382							
B8	36	450	0.1167	0.1330	0.1328							
C8	387	570	0.1166	0.1266	0.1266							
D1	388	470	0.1162	0.1525	0.1524							
SU47 A8	389	620	0.1154	0.1439	0.1439	5-3-11 GCh						
B8	390	730	0.1188	0.1464	~~0.1463~~	0.1464						
SU53 A2	481	925	0.1160	0.1201	0.1199							
B2	482	965	0.1179	0.1220	0.1219							
C2	483	950	0.1179	0.1205	0.1204							
D2	484	980	0.1186	0.1304	0.1306							
E2	485	960	0.1185	0.1206	0.1206							
F2	486	600	0.1194	0.1333	0.1333							
SU62 A1	487	920	0.1190	0.1264	0.1263							
A2dp	488	915	0.1168	0.1235	0.1235							
B1-2	489	1000	0.1170	0.1171	0.1172							
C1-2	490	↓	0.1169	0.1174	0.1174							
SU64 A3	501	470	0.1162	0.1365	0.1365							
A3dp	502	↓	0.1181	0.1386	0.1387							

SU53 : 01445
3966

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID(TVSS) BENCHSHEET

Analyst:	MDS	Date/Time:	5-3-11	Oven #:		Muffle Furnace:		Balance:	1123230597

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

TSS (mg/L) calculated as:
Final Dry Weight (mg) = (Min Dry Weight – Tare Weight) * 1000
TSS = (Final Dry Weight) / (mL Sample) * 1000
If dry wt < 1 mg / mL sample * 1000 use "<" flag

Loss on Ignition (LOI) = TVSS (mg / L) is calculated as:
LOI (mg / L) = Dry Weight (mg) – [(Minimum Ash Weight – Tare Weight) * 1000]
TVSS (mg / L) = LOI / mL sample * 1,000
If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "<" flag

LCS (Cellulose from MP Biochemicals) Lott #		6399J	0.0500 Gram to 1000 mL = **50 mg / L TSS**						
Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	
Date & Time:									
Cal Weight (10.0000g):									

Count

Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams) 1	2	3	Dry Wt mg	TSS	Ash Weight 550°C 1	2	LOI - mg	TVSS mg/L
~~BLANK~~				5-3-11 MDS								
SU85 A'	A9953	940	0.1157	0.1221	0.1221							
SU74 A8	4	910	0.1174	0.1206	0.1206							
↓ B8	5	930	0.1170	0.1192	0.1192							
↓ C'	6	885	0.1194	0.1227	0.1227							

5-3-11 MDS

SU53:01446
3967

FRONTIER
ANALYTICAL LABORATORY

May 19, 2011

Ms. Sue Dunnihoo
Analytical Resources Incorporated
4611 South 134th Place
Tukwila, WA 98168-3240

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6742**. This corresponds to your **Lora Lake Apts RI** project under ARI project number **SU53**. Three aqueous samples were received on 5/4/2011 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors (TEFs) were used to calculate the toxic equivalents (TEQ) on your report. Analytical Resources Incorporated requested a Level IV data package and a turnaround time of fifteen business days for project **6742**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. You also requested Electronic Data Deliverables (EDD) for this project. The EDD and Level I summary have been sent to you via email. The Level IV report has been sent to you on compact disk. A hardcopy of the data package will not be forwarded unless specifically requested. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **6742**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6742**

Received on: **05/04/2011** Project Due: **05/26/2011** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6742-001-SA	1	SU53	MW5042811	EPA 1613 D/F	Aqueous	04/28/2011	09:15 am	04/27/2012
6742-002-SA	1	SU53	MW4042811	EPA 1613 D/F	Aqueous	04/28/2011	01:30 pm	04/27/2012
6742-003-SA	1	SU53	MW14042811	EPA 1613 D/F	Aqueous	04/28/2011	03:10 pm	04/27/2012

FAL Sample ID	Notes
6742-001-SA	'Using sample ID from COC for our tracking purposes.'
6742-002-SA	'Using sample ID from COC for our tracking purposes.'

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6742-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X2292

Date Extracted: 05-16-2011
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-3-7-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.791		-	0.215				
1,2,3,7,8-PeCDD	ND	1.12		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.42		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.73		-	0.424	Total TCDD	ND	0.791	
1,2,3,7,8,9-HxCDD	ND	1.55		-	0.367	Total PeCDD	ND	1.12	
1,2,3,4,6,7,8-HpCDD	ND	3.06		-	0.497	Total HxCDD	ND	1.73	
OCDD	ND	5.85		-	1.41	Total HpCDD	ND	3.06	
2,3,7,8-TCDF	ND	0.676		-	0.209				
1,2,3,7,8-PeCDF	ND	0.977		-	0.235				
2,3,4,7,8-PeCDF	ND	1.12		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.09		-	0.255				
1,2,3,6,7,8-HxCDF	ND	0.948		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.17		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.25		-	0.258	Total TCDF	ND	0.676	
1,2,3,4,6,7,8-HpCDF	ND	1.52		-	0.324	Total PeCDF	ND	1.12	
1,2,3,4,7,8,9-HpCDF	ND	2.37		-	0.490	Total HxCDF	ND	1.25	
OCDF	ND	4.39		-	0.805	Total HpCDF	ND	2.37	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.2	25.0 - 164	
13C-1,2,3,7,8-PeCDD	72.7	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	82.9	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	91.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	95.7	23.0 - 140	
13C-OCDD	79.8	17.0 - 157	
13C-2,3,7,8-TCDF	83.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	85.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	81.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	89.8	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	97.3	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	83.8	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	81.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	77.2	26.0 - 138	
13C-OCDF	71.0	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	80.3	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 5/19/11

Reviewed By: _____
Date: 5/19/11

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6742-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X2292

Date Extracted: 05-16-2011
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-3-7-11
GC Column: DB5
Units: ng/ml

Acquired: 05-18-2011
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.6	6.70 - 15.8	
1,2,3,7,8-PeCDD	58.7	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	53.8	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	54.0	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	55.4	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	54.4	35.0 - 70.0	
OCDD	118	78.0 - 144	
2,3,7,8-TCDF	12.2	7.50 - 15.8	
1,2,3,7,8-PeCDF	54.4	40.0 - 67.0	
2,3,4,7,8-PeCDF	53.8	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	52.0	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	52.4	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	51.1	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	51.7	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	53.8	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	52.5	39.0 - 69.0	
OCDF	99.3	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	73.9	20.0 - 175	
13C-1,2,3,7,8-PeCDD	58.5	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	61.6	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	67.2	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	62.4	26.0 - 166	
13C-OCDD	45.8	13.0 - 198	
13C-2,3,7,8-TCDF	76.7	22.0 - 152	
13C-1,2,3,7,8-PeCDF	64.9	21.0 - 192	
13C-2,3,4,7,8-PeCDF	66.7	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	64.0	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	64.8	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	64.9	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	55.9	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	54.0	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	50.5	20.0 - 186	
13C-OCDF	44.3	13.0 - 198	

Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	83.3	31.0 - 191	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 5/19/11

Reviewed By: _____
Date: 5/19/11

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6742-001-SA
Client ID: MW5042811
Matrix: Aqueous
Batch No: X2292

Date Extracted: 05-16-2011
Date Received: 05-04-2011
Amount: 1.018 L

ICal: PCDDFAL3-3-7-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.325

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.984		-	0.215				
1,2,3,7,8-PeCDD	ND	1.36		-	0.317				
1,2,3,4,7,8-HxCDD	ND	2.44		-	0.326				
1,2,3,6,7,8-HxCDD	ND	3.11		-	0.424	Total TCDD	ND	0.984	
1,2,3,7,8,9-HxCDD	ND	2.72		-	0.367	Total PeCDD	ND	1.36	
1,2,3,4,6,7,8-HpCDD	24.5	-	J	0.245	0.497	Total HxCDD	ND	3.11	
OCDD	139	-		0.0417	1.41	Total HpCDD	45.1	-	
2,3,7,8-TCDF	ND	0.487		-	0.209				
1,2,3,7,8-PeCDF	ND	1.02		-	0.235				
2,3,4,7,8-PeCDF	ND	1.17		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.18		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.11		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.26		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.29		-	0.258	Total TCDF	10.5	-	
1,2,3,4,6,7,8-HpCDF	3.50	-	J	0.0350	0.324	Total PeCDF	2.79	-	J
1,2,3,4,7,8,9-HpCDF	ND	2.14		-	0.490	Total HxCDF	5.23	-	J
OCDF	10.6	-	J	0.00318	0.805	Total HpCDF	12.2	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	73.3	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	81.2	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	89.9	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	90.0	23.0 - 140	
13C-OCDD	70.6	17.0 - 157	
13C-2,3,7,8-TCDF	86.4	24.0 - 169	
13C-1,2,3,7,8-PeCDF	84.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	81.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	82.4	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	85.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	83.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	75.6	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	79.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	71.8	26.0 - 138	
13C-OCDF	63.8	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	82.4	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 5/19/11

Reviewed By: _____
Date: 5/19/11

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6742-002-SA
Client ID: MW4042811
Matrix: Aqueous
Batch No: X2292

Date Extracted: 05-16-2011
Date Received: 05-04-2011
Amount: 1.035 L

ICal: PCDDFAL3-3-7-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.0992

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.769		-	0.215				
1,2,3,7,8-PeCDD	ND	1.18		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.25		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.63		-	0.424	Total TCDD	ND	0.769	
1,2,3,7,8,9-HxCDD	ND	1.40		-	0.367	Total PeCDD	ND	1.18	
1,2,3,4,6,7,8-HpCDD	7.91	-	J	0.0791	0.497	Total HxCDD	ND	1.63	
OCDD	66.9	-		0.0201	1.41	Total HpCDD	18.4	-	J
2,3,7,8-TCDF	ND	0.677		-	0.209				
1,2,3,7,8-PeCDF	ND	0.965		-	0.235				
2,3,4,7,8-PeCDF	ND	1.09		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.05		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.00		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.11		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.14		-	0.258	Total TCDF	ND	0.677	
1,2,3,4,6,7,8-HpCDF	ND	2.05		-	0.324	Total PeCDF	ND	1.09	
1,2,3,4,7,8,9-HpCDF	ND	1.94		-	0.490	Total HxCDF	ND	1.14	
OCDF	ND	6.50		-	0.805	Total HpCDF	4.85	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	70.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	80.3	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	85.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	85.8	23.0 - 140	
13C-OCDD	65.0	17.0 - 157	
13C-2,3,7,8-TCDF	85.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	81.7	24.0 - 185	
13C-2,3,4,7,8-PeCDF	79.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	81.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	83.8	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	81.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	73.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	69.1	26.0 - 138	
13C-OCDF	58.8	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	84.7	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 5/19/11

Reviewed By: _____
Date: 5/19/11

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6742-003-SA
Client ID: MW14042811
Matrix: Aqueous
Batch No: X2292

Date Extracted: 05-16-2011
Date Received: 05-04-2011
Amount: 1.040 L

ICal: PCDDFAL3-3-7-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.556		-	0.215				
1,2,3,7,8-PeCDD	ND	1.17		-	0.317				
1,2,3,4,7,8-HxCDD	ND	0.921		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.16		-	0.424	Total TCDD	ND	0.556	
1,2,3,7,8,9-HxCDD	ND	1.02		-	0.367	Total PeCDD	ND	1.17	
1,2,3,4,6,7,8-HpCDD	ND	1.49		-	0.497	Total HxCDD	ND	1.16	
OCDD	ND	4.98		-	1.41	Total HpCDD	ND	1.49	
2,3,7,8-TCDF	ND	0.490		-	0.209				
1,2,3,7,8-PeCDF	ND	0.770		-	0.235				
2,3,4,7,8-PeCDF	ND	0.836		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.12		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.09		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.19		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.19		-	0.258	Total TCDF	ND	0.490	
1,2,3,4,6,7,8-HpCDF	ND	0.994		-	0.324	Total PeCDF	ND	0.836	
1,2,3,4,7,8,9-HpCDF	ND	1.57		-	0.490	Total HxCDF	ND	1.19	
OCDF	ND	2.59		-	0.805	Total HpCDF	ND	1.57	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	81.5	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.7	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	93.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	91.4	23.0 - 140	
13C-OCDD	71.0	17.0 - 157	
13C-2,3,7,8-TCDF	92.2	24.0 - 169	
13C-1,2,3,7,8-PeCDF	90.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	89.5	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	90.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	91.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	89.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	83.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	80.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	74.0	26.0 - 138	
13C-OCDF	63.9	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	90.1	35.0 - 197

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 5/19/11

Reviewed By: _____
Date: 5/19/11

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 04/29/11

ANALYTICAL RESOURCES INCORPORATED

6742
0°C

ARI Project: SU53

Laboratory: Frontier Analytical Laboratory
Lab Contact: BRAD SILVERBUSH
Lab Address: 5172 Hillsdale Circle
El Dorado Hills, CA 95762
Phone: 916-934-0900
Fax: 916-934-0999

ARI Client: Floyd Snider
Project ID: Lora Lake Apts RI
ARI PM: Sue Dunnihoo
Phone: 206-695-6207
Fax: 206-695-6201

Analytical Protocol: In-house
Special Instructions:

Requested Turn Around: **05/13/11**
Email Results (Y/N): **Yes**

Limits of Liability. *Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or sucessors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases 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 Subcontractor.*

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
11-9621-SU53A	MW5042811	04/28/11 09:15	Groundwater	2	Dioxin/Furans 1613(Sub) ✓
Special Instructions: None					
11-9623-SU53C	MW4042811	04/28/11 13:30	Groundwater	2	Dioxin/Furans 1613(Sub) ✓
Special Instructions: None					
11-9625-SU53E	MW14042811	04/28/11 15:10	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					

1Z83269501508 68222

Carrier	UPS	Airbill	1Z832695015093363 2	Date	5/3/11
Relinquished by	[signature]	Company ARI	Date 5/3/11	Time	1509
Received by	[signature]	Company FAL	Date 5/4/11	Time	10:30

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6742**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	SU53
Date Received:	05/04/2011
Time Received:	10:30 am
Received By:	BS
Logged In By:	KZ
# of Samples Received:	3
Duplicates:	3
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1z8326950150933633
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	04/27/2012
Adequate Sample Volume	Yes
pH Range	Between 4 and 9
Anomalies or additional comments: L4 & EDD.	

5172 Hillsdale Circle • El Dorado Hills, CA 95762 • Tel (916) 934-0900 • Fax (916) 934-0999 • www.frontieranalytical.com

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	6742	Sample #:	1 - 3	Client Manager:	BS
Client:	Analytical Resources Inc. Sue Dunnihoo			Hold Time:	04/27/2012
Matrix:	Aqueous	Extraction Batch:	2292	Due Date:	05/26/2011
Method:	EPA 1613 D/F			Storage:	R1
SOP:	SOPs: EP2A Rev.9 IP2A Rev.10				

COMMENTS/INSTRUCTIONS: w/o cap

Sample	Full Weight (g)	Empty Weight (g)
6742-001-0001-SA	514.90	496.50
6742-002-0001-SA	1527.30	491.98
6742-003-0001-SA	1535.70	495.69

Results: 6742

Instrument: Jal3
DB5 ____
DB225 ____
DB1 ____
Other ____

Extract/s located in box: "Oxymonn"

Standards: 6742

L4 • EDD

Frontier Analytical Laboratory
Percent Solids

FAL Project: 6742

	Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	10g Equiv
-1.33	6742-001-0001-SA	WM	05/16/11	9.89	0.01	0.10	—
-1.32	6742-002-0001-SA	↓	↓	7.76	0.00	0.00	—
-1.32	6742-003-0001-SA	↓	↓	7.58	0.00	0.00	—

% Solids Summary:

Non-Filtered Determination

1. Place an aliquot of sample into a pre-weighed aluminum weighing boat. Use approximately two to ten grams for solid samples, approximately 10 mL for aqueous samples.
2. Record the weight.
3. Dry sample overnight at approximately 110 C.

Filtered Determination

1. Pre-weigh a glass fiber filter of appropriate pore size and pressure filter a sample aliquot (200-1000mL) through it.
2. Air dry the filter and record the dry weight.

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 6742 Extraction Date: 2011-05-16 Extraction Chemist: GN

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: 100511A Vial: 6 Chemist/Witness/Date	NS Amt: 10.0uL ID: 100511B Vial: 6 Chemist/Witness/Date	CSS Amt: 10.0uL ID: 100511C Vial: 6 Chemist/Witness/Date
2292-001-0001-MB	(1.000L)	(1.000L)	GN WM 5/16/11	NA	GN WM 5/17/11
2292-001-0001-OPR	(1.000L)	(1.000L)		GN WM 5/16/11	
6742-001-0001-SA	1.018L			NA	
6742-002-0001-SA	1.035L				
6742-003-0001-SA	1.040L				

AX-21 Charcoal Cleaned	082510	Acetone	107203	Acid Alumina	A0281479	Hexane	110182
Hydrochloric Acid	B08505	Methanol	108367	Methylene Chloride (DCM)	51020	Silica Gel	TA1592834
Sodium Hydroxide	0062836	Sodium Sulfate	1750C277	Sulfuric Acid	110205	Tetradecane	086237
Toluene	108273	Water	51004	C-18 Empore Discs	320552	Cyclohexane	50204

Comments: 6742-01 OPR MB
6746-1 6742-3 6742-2
6746-2

Frontier Analytical Laboratory

CLEANUP SHEET

Project #: 6742

Method/Analysis: EPA 1613 D/F

Splits: 0 Split Date: N/A Final Volume: 20.0uL

Sample ID	Cleanup 1 MSG/AA Chemist/Date	Cleanup 2 NA Chemist/Date	Cleanup 3 NA Chemist/Date	RS Amt: 10.0uL ID: 100511D Vial: 8 Chemist/Witness/Date
2292-001-0001-MB	GNS/17/11	NA	NA	GN WM 5/17/11
2292-001-0001-OPR	↓	↓	↓	↓
6742-001-0001-SA	↓	↓	↓	↓
6742-002-0001-SA	↓	↓	↓	↓
6742-003-0001-SA	↓	↓	↓	↓

Comments:

FAL ID: 2292-001-0001-MB Filename: 18MAY11M Sam:3 Acquired: 18-MAY-11 11:45:24 ICal: PCDDFAL3-3-7-11
Client ID: Method Blank ConCal: ST051811M1 EndCal: ST051811M2
Results: 2292 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 0.00
WHO 1998 Tox: 0.00 WHO 2005 Tox: 0.00

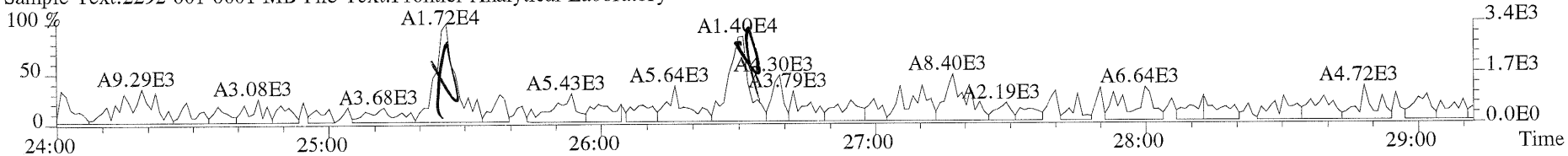
Name	Resp	RA		RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	*	n	NotFnd	1.13	*		2.50	600	684	0.791
1,2,3,7,8-PeCDD	*	*	n	NotFnd	1.02	*		2.50	648	600	1.12
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.45	*		2.50	816	808	1.42
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.45	*		2.50	816	808	1.73
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.47	*		2.50	816	808	1.55
1,2,3,4,6,7,8-HpCDD	*	*	n	NotFnd	1.30	*		2.50	898	1220	3.06
OCDD	*	*	n	NotFnd	1.45	*		2.50	1140	1190	5.85
2,3,7,8-TCDF	*	*	n	NotFnd	1.15	*		2.50	736	1170	0.676
1,2,3,7,8-PeCDF	*	*	n	NotFnd	0.89	*		2.50	728	860	0.977
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.89	*		2.50	728	860	1.12
1,2,3,4,7,8-HxCDF	*	*	n	NotFnd	1.01	*		2.50	704	688	1.09
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	0.89	*		2.50	704	688	0.948
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.02	*		2.50	704	688	1.17
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.10	*		2.50	704	688	1.25
1,2,3,4,6,7,8-HpCDF	*	*	n	NotFnd	1.48	*		2.50	621	715	1.52
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.43	*		2.50	621	715	2.37
OCDF	*	*	n	NotFnd	0.84	*		2.50	927	828	4.39

						Rec
13C-2,3,7,8-TCDD	3.43e+07	0.77	y	27:15	1.03	1640	82.2
13C-1,2,3,7,8-PeCDD	2.98e+07	1.78	y	33:04	1.01	1450	72.7
13C-1,2,3,4,7,8-HxCDD	2.27e+07	1.31	y	38:26	1.19	1660	82.9
13C-1,2,3,6,7,8-HxCDD	1.97e+07	1.23	y	38:36	0.94	1830	91.3
13C-1,2,3,4,6,7,8-HpCDD	1.82e+07	1.03	y	44:02	0.83	1910	95.7
13C-OCDD	2.23e+07	0.90	y	49:34	0.61	3190	79.8
13C-2,3,7,8-TCDF	5.31e+07	0.87	y	26:30	0.98	1660	83.0
13C-1,2,3,7,8-PeCDF	4.62e+07	1.63	y	31:20	0.83	1710	85.4
13C-2,3,4,7,8-PeCDF	4.27e+07	1.64	y	32:39	0.80	1630	81.4
13C-1,2,3,4,7,8-HxCDF	3.81e+07	0.47	y	37:02	1.84	1800	89.8
13C-1,2,3,6,7,8-HxCDF	5.13e+07	0.48	y	37:14	2.29	1950	97.3
13C-2,3,4,6,7,8-HxCDF	3.59e+07	0.47	y	38:11	1.86	1680	83.8
13C-1,2,3,7,8,9-HxCDF	3.39e+07	0.48	y	39:37	1.98	1490	74.4
13C-1,2,3,4,6,7,8-HpCDF	1.86e+07	0.46	y	42:08	0.99	1640	81.8
13C-1,2,3,4,7,8,9-HpCDF	1.36e+07	0.47	y	44:57	0.77	1540	77.2
13C-OCDF	3.81e+07	0.94	y	49:56	1.17	2840	71.0
37Cl-2,3,7,8-TCDD	9.52e+06			27:16	0.73	643	80.3
13C-1,2,3,4-TCDD	4.06e+07	0.78	y	26:41	-	107	
13C-1,2,3,4-TCDF	6.53e+07	0.87	y	25:26	-	90.7	
13C-1,2,3,7,8,9-HxCDD	2.30e+07	1.31	y	39:02	-	92.8	

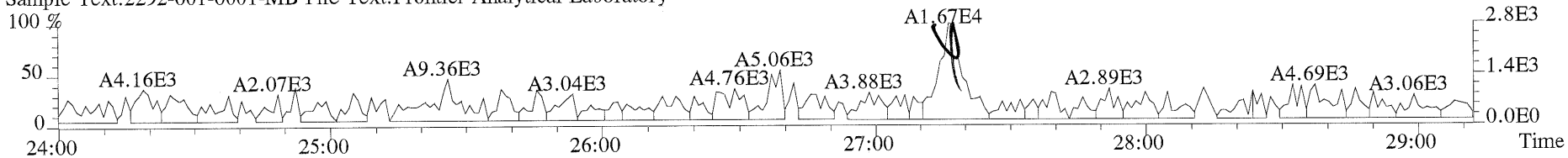
					Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*		NotFnd	1.13	*	2.50	600	684	0.791		0
Total Penta-Dioxins	*		NotFnd	1.02	*	2.50	648	600	1.12		0
Total Hexa-Dioxins	*		NotFnd	1.46	*	2.50	816	808	1.73		0
Total Hepta-Dioxins	*		NotFnd	1.30	*	2.50	898	1220	3.06		0
Total Tetra-Furans	*		NotFnd	1.15	*	2.50	736	1170	0.676		0
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*	2.50	728	860	1.12	PeCDF	0
Total Penta-Furans	*		NotFnd	0.89	*	2.50	728	860	1.12	*	0
Total Hexa-Furans	*		NotFnd	1.00	*	2.50	704	688	1.25		0
Total Hepta-Furans	*		NotFnd	1.46	*	2.50	621	715	2.37		0

Analyst: _____ Date: 5/19/11

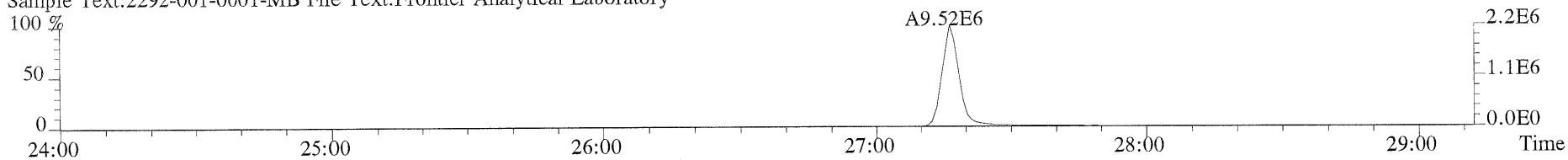
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



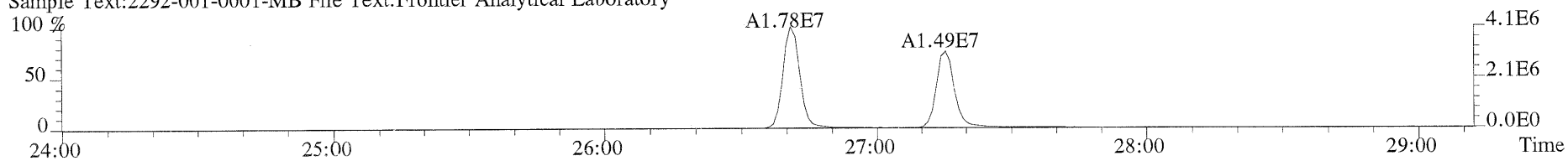
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



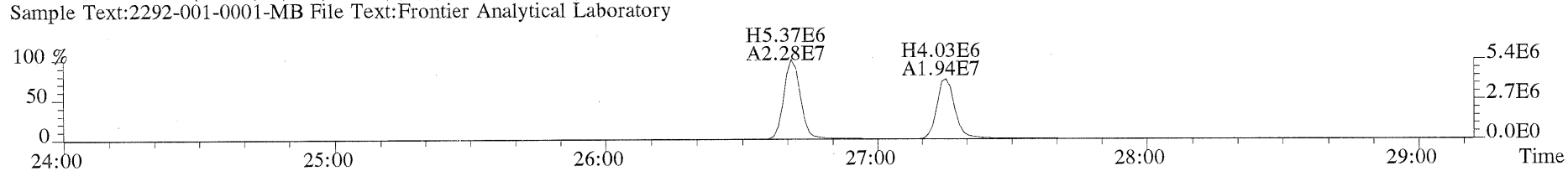
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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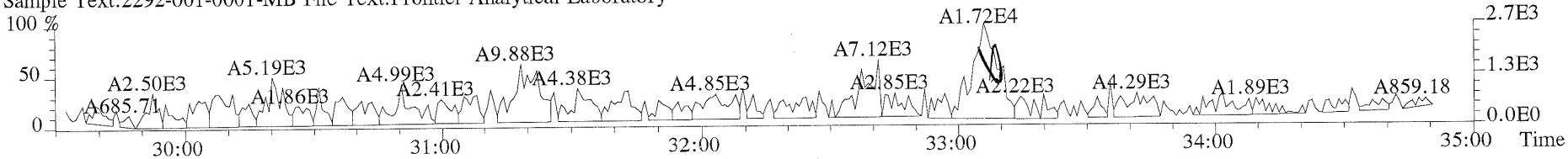
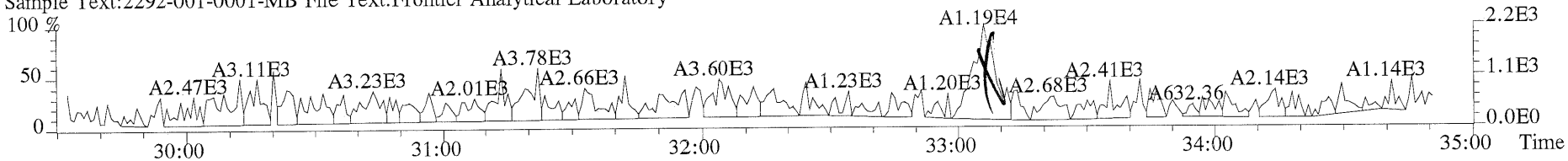
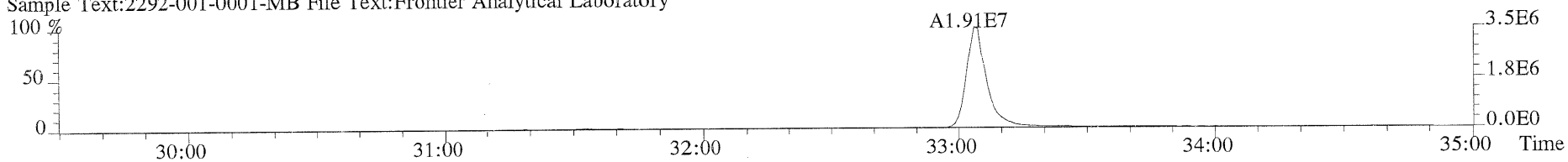


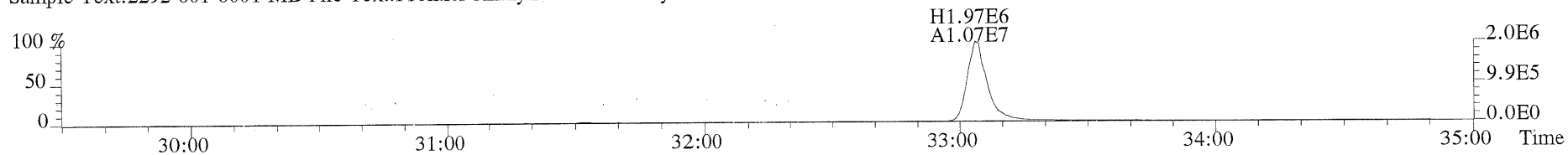
File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



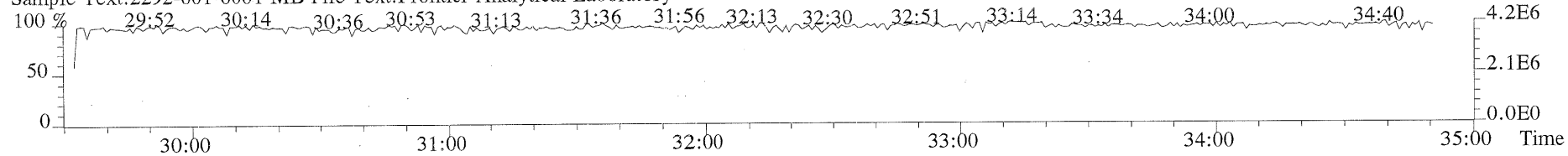
File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



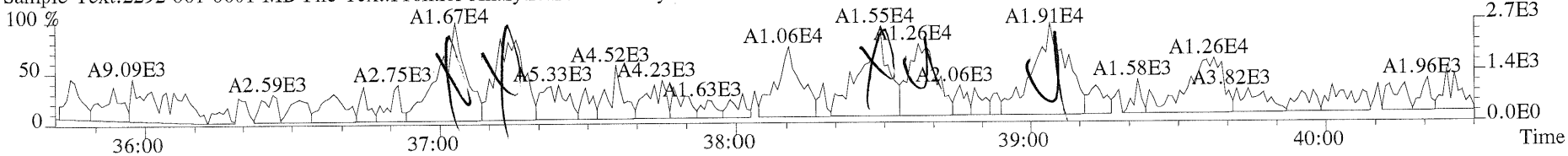
File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



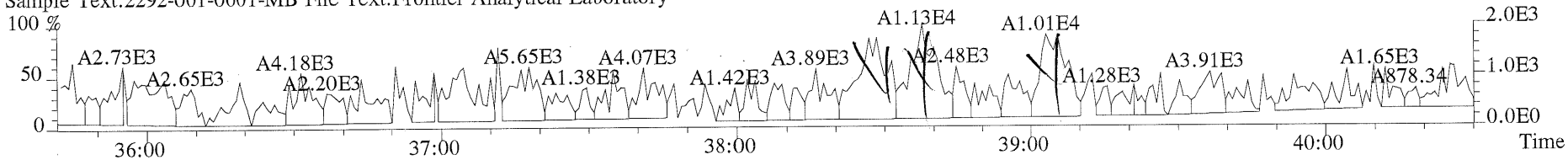
File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:3 F:2 Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



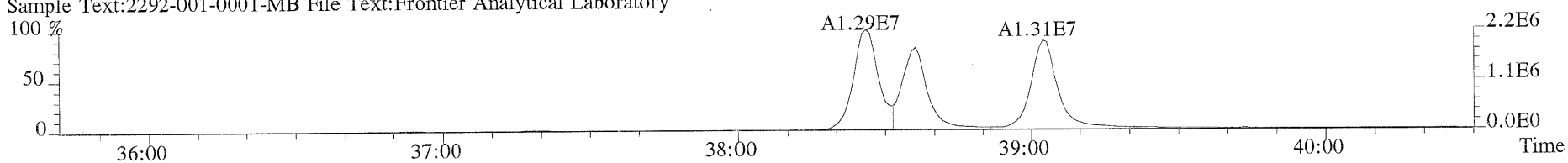
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



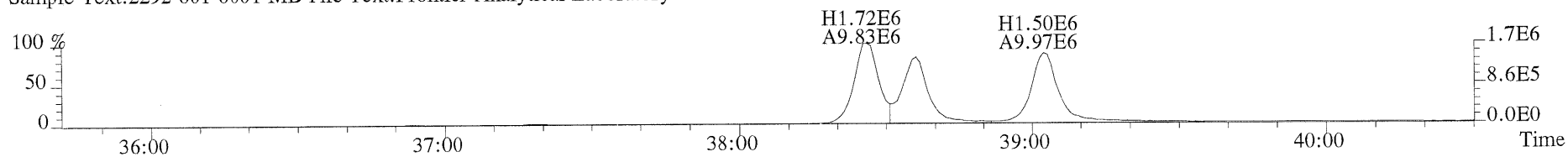
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



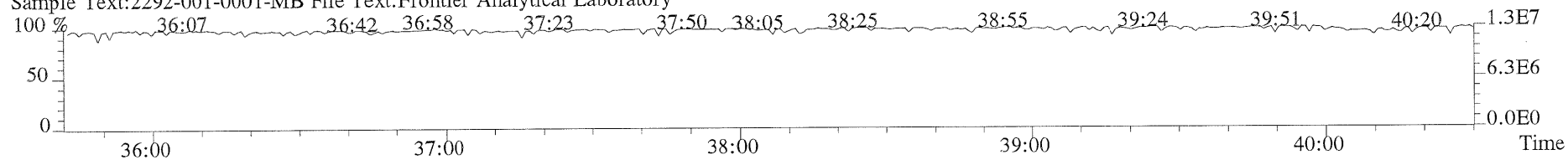
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



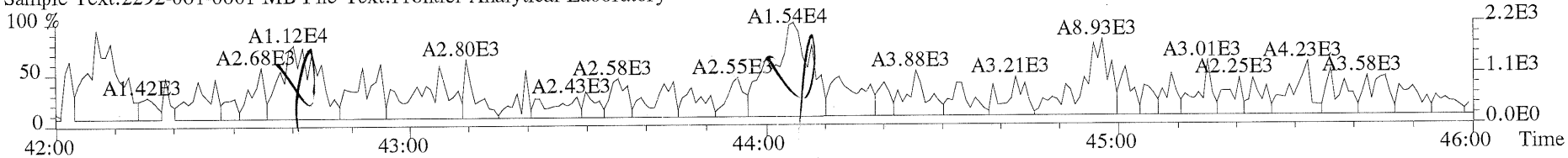
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



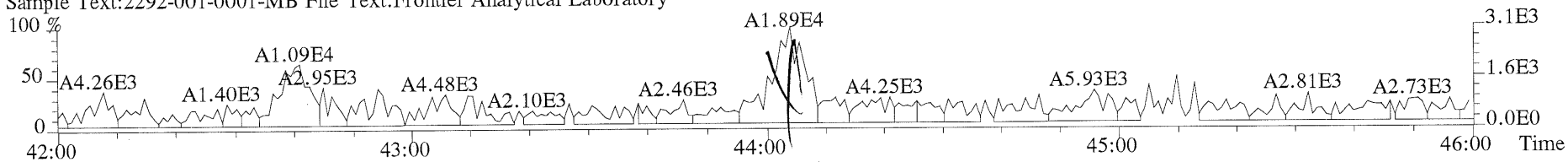
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:3 F:3 Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



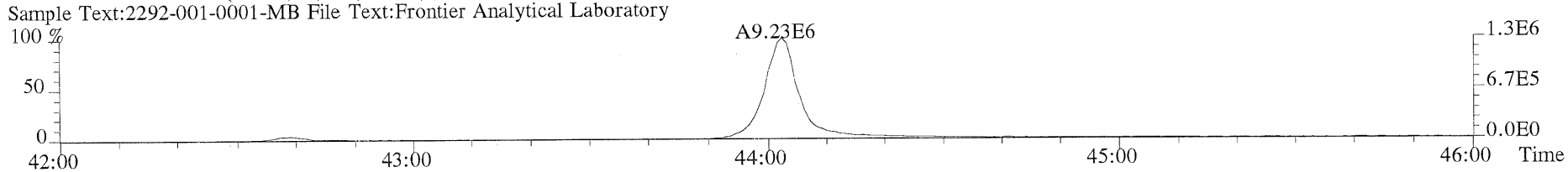
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



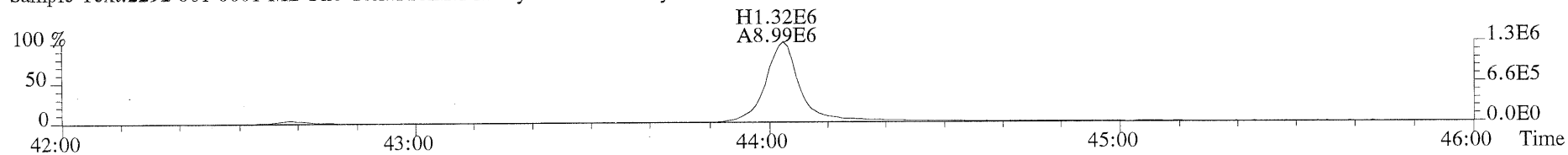
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



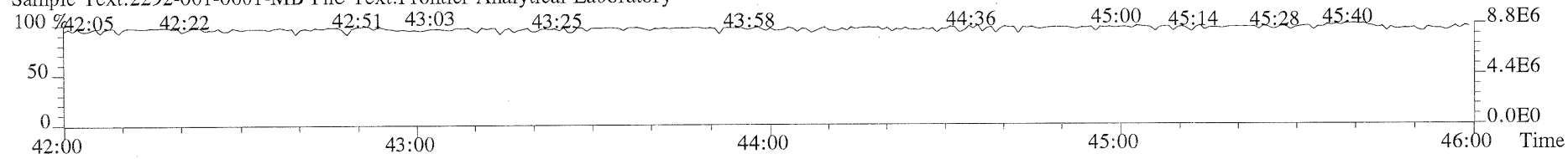
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



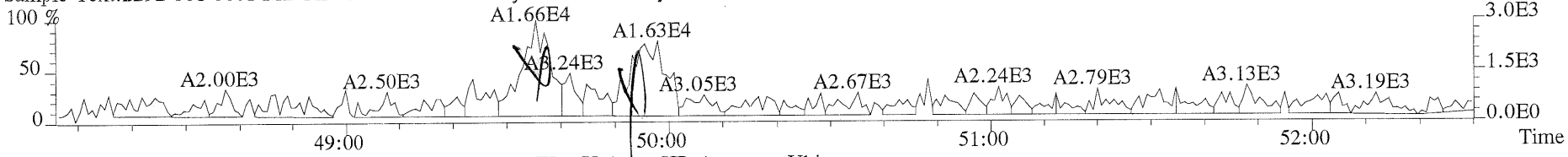
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



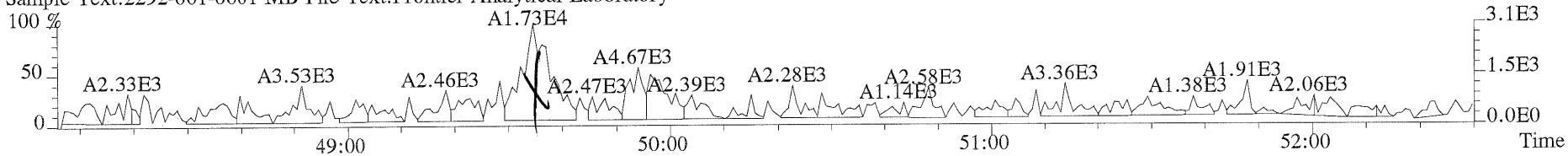
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:3 F:4 Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory

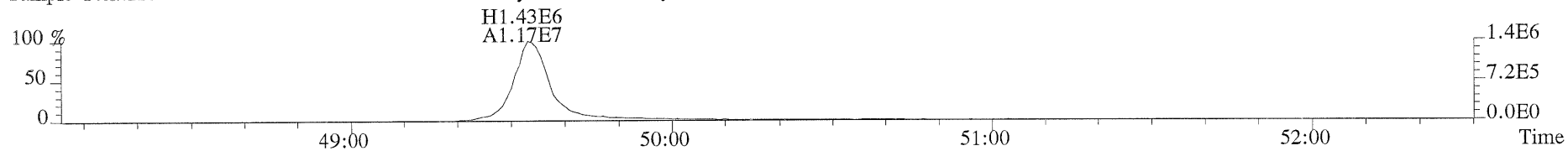


File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory

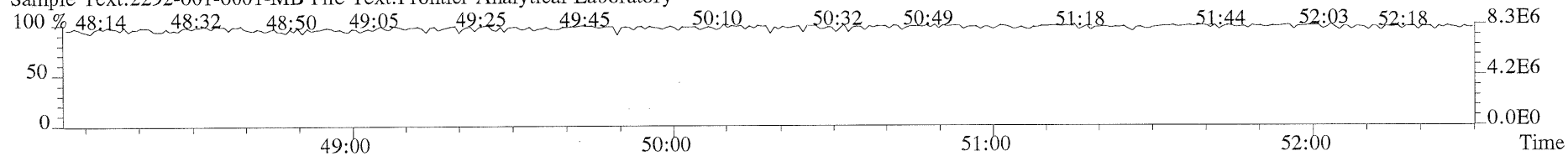


File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory

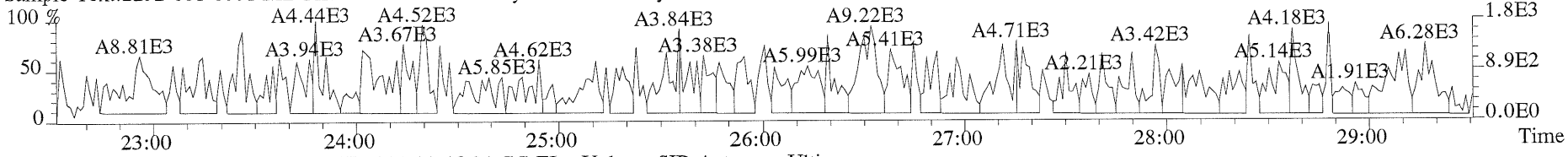
File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



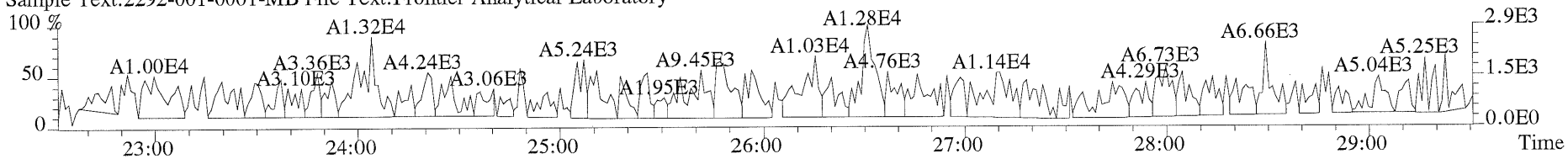
File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



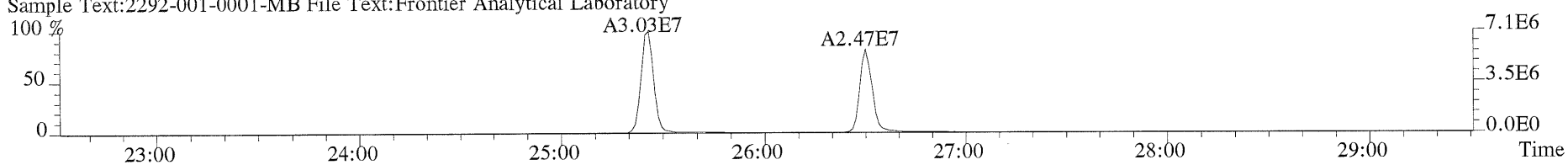
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



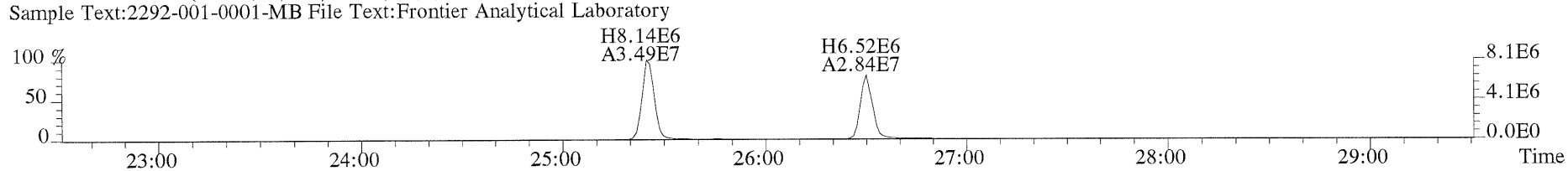
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



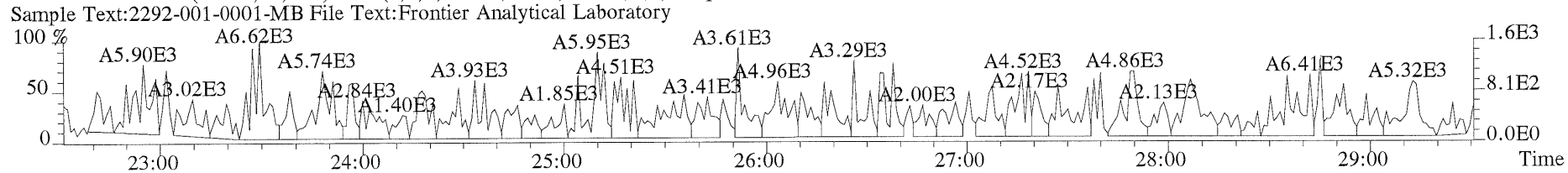
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



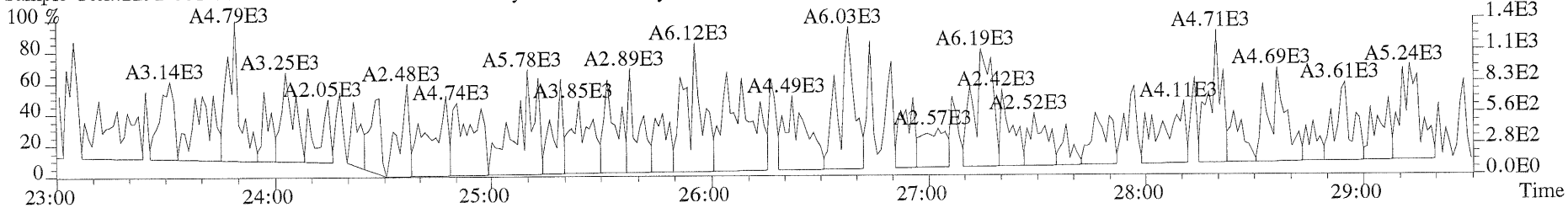
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



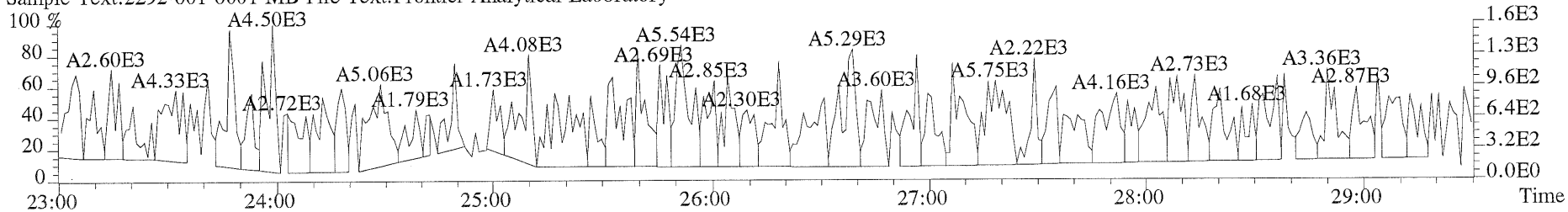
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



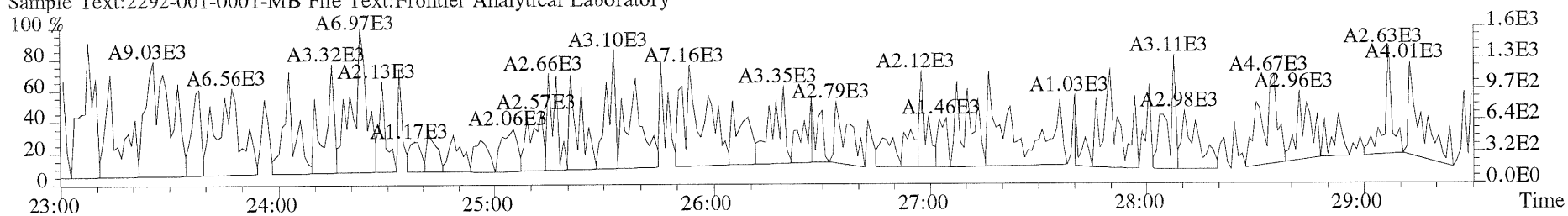
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



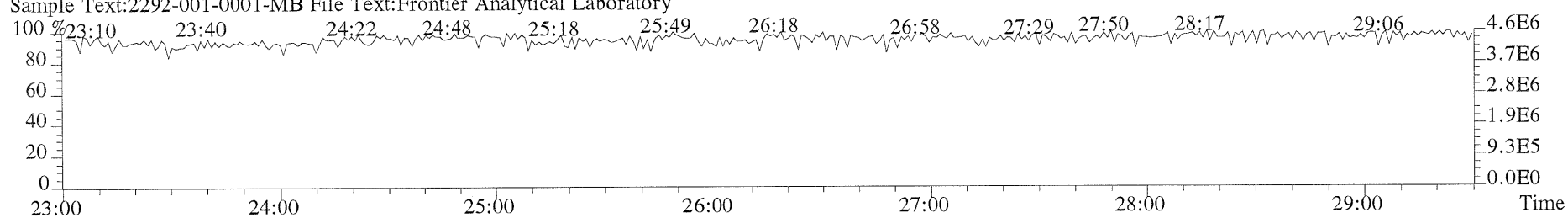
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



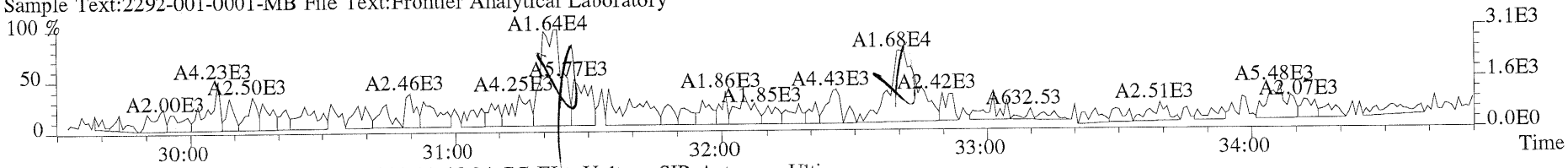
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



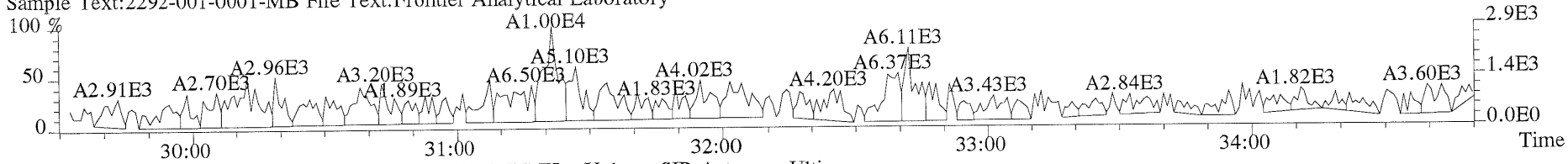
File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
316.9824 S:3 Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



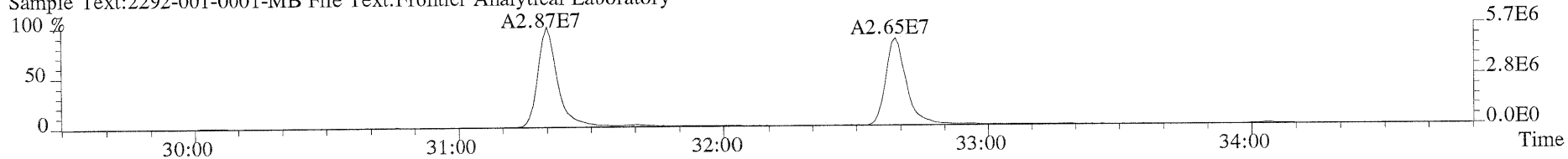
File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



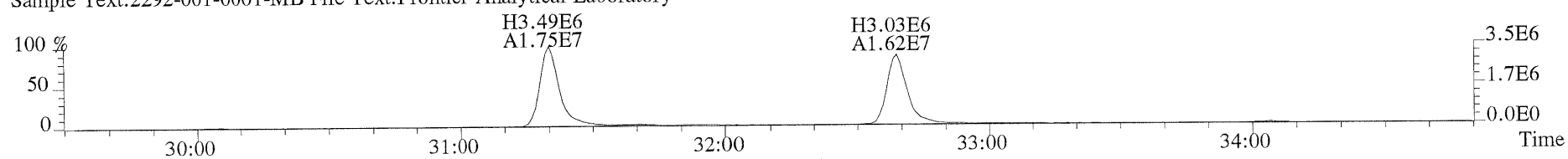
File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



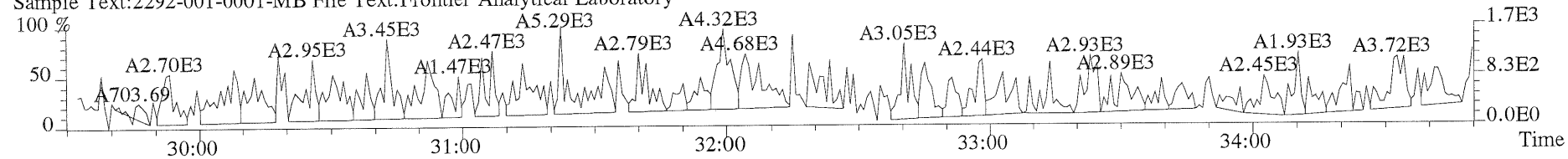
File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



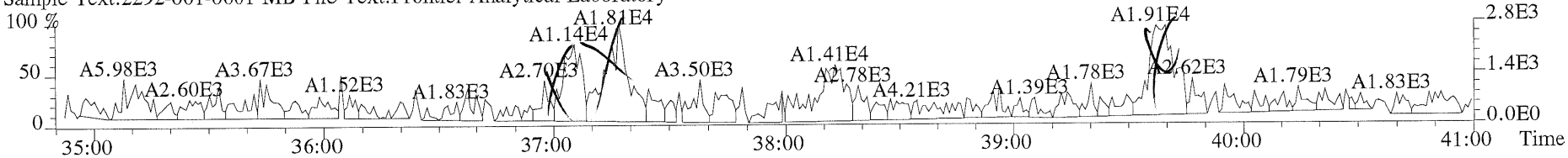
File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



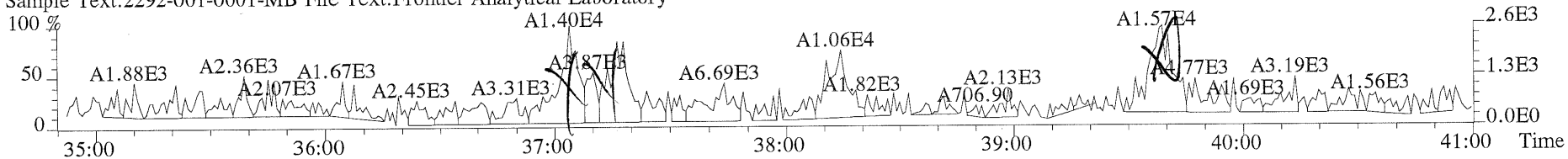
File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



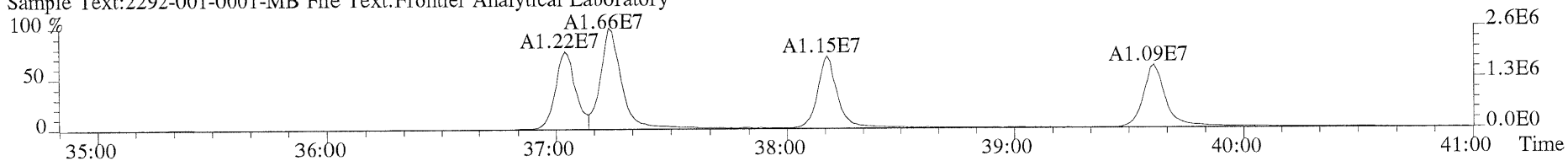
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



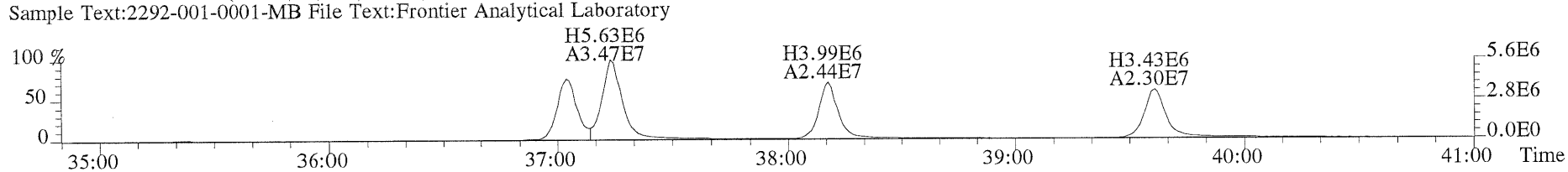
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



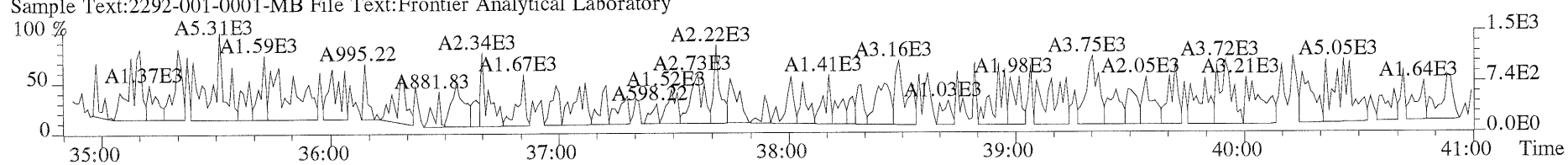
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



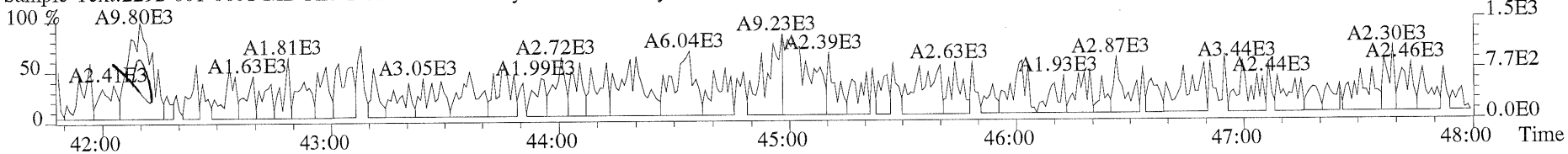
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



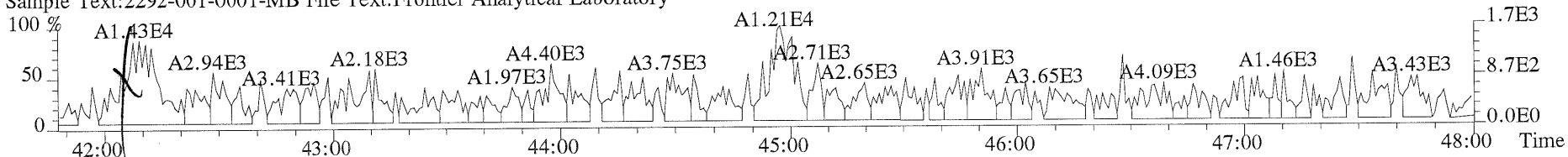
File:18MAY11M #1-476 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



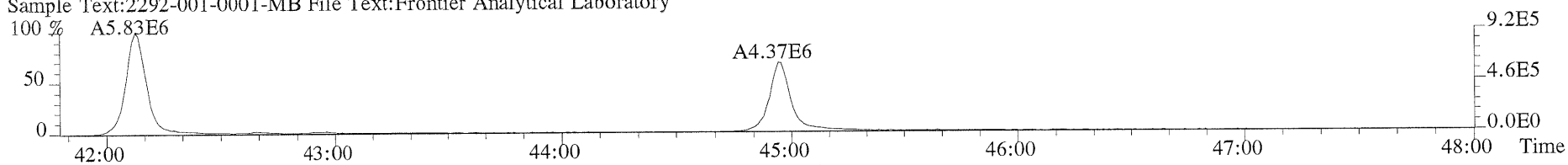
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



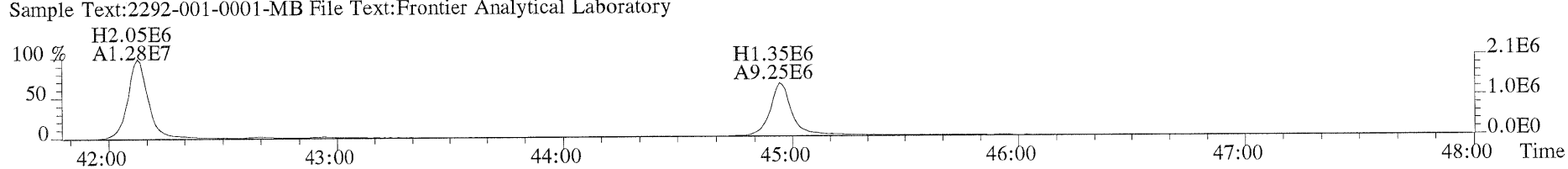
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



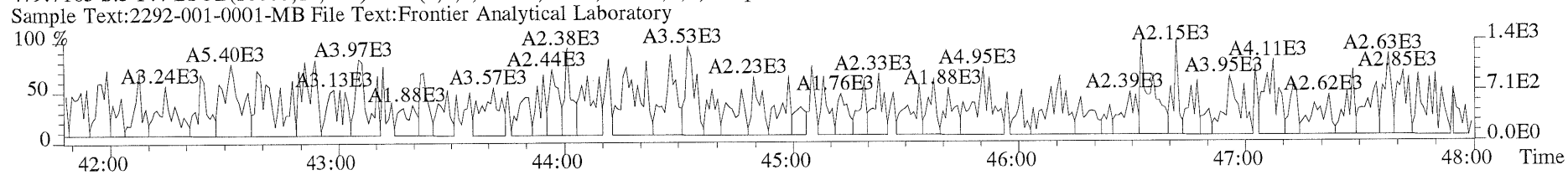
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



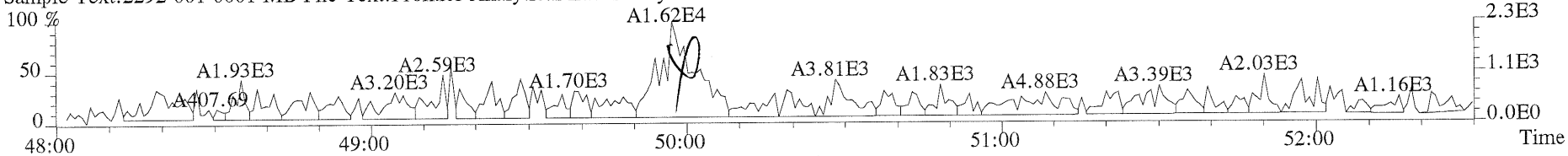
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



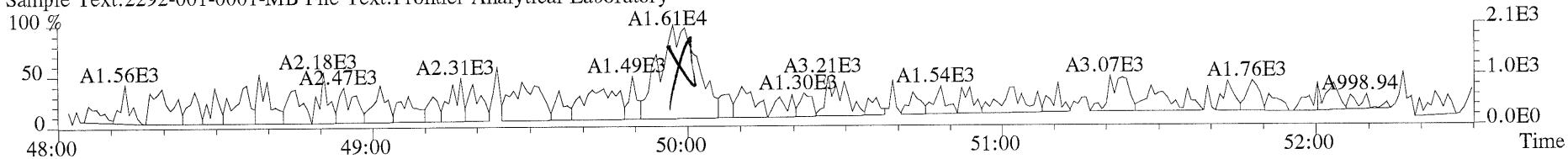
File:18MAY11M #1-541 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



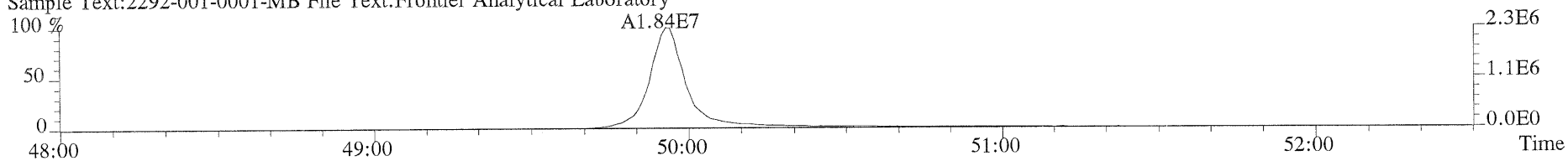
File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



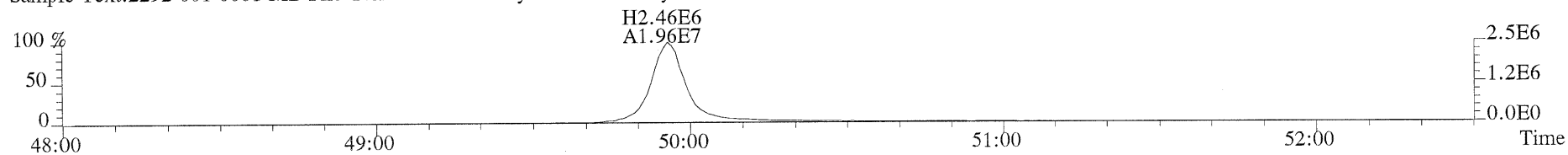
File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



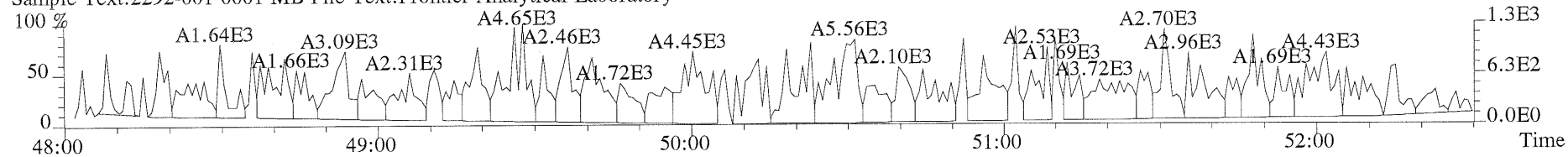
File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



USEPA - ITD

FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 18MAY11M Sam:2

Ext. Date: 5/16/11 Shift: Day Analysis Date: 18-MAY-11 10:50:01

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	10.6	6.70 - 15.8
1,2,3,7,8-PeCDD	50	58.7	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	53.8	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	54.0	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	55.4	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	54.4	35.0 - 70.0
OCDD	100	118	78.0 - 144
2,3,7,8-TCDF	10	12.2	7.50 - 15.8
1,2,3,7,8-PeCDF	50	54.4	40.0 - 67.0
2,3,4,7,8-PeCDF	50	53.8	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	52.0	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	52.4	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	51.1	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	51.7	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	53.8	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	52.5	39.0 - 69.0
OCDF	100	99.3	63.0 - 170

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613

Analyst: _____ Date: 5/19/11

USEPA - ITD

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 18MAY11M Sam:2

Ext. Date: 5/16/11 Shift: Day Analysis Date: 18-MAY-11 10:50:01

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	100	73.9	20.0 - 175
13C-1,2,3,7,8-PeCDD	100	58.5	21.0 - 227
13C-1,2,3,4,7,8-HxCDD	100	61.6	21.0 - 193
13C-1,2,3,6,7,8-HxCDD	100	67.2	25.0 - 163
13C-1,2,3,4,6,7,8-HpCDD	100	62.4	26.0 - 166
13C-OCDD	200	91.6	26.0 - 397
13C-2,3,7,8-TCDF	100	76.7	22.0 - 152
13C-1,2,3,7,8-PeCDF	100	64.9	21.0 - 192
13C-2,3,4,7,8-PeCDF	100	66.7	13.0 - 328
13C-1,2,3,4,7,8-HxCDF	100	64.0	19.0 - 202
13C-1,2,3,6,7,8-HxCDF	100	64.8	21.0 - 159
13C-2,3,4,6,7,8-HxCDF	100	64.9	22.0 - 176
13C-1,2,3,7,8,9-HxCDF	100	55.9	17.0 - 205
13C-1,2,3,4,6,7,8-HpCDF	100	54.0	21.0 - 158
13C-1,2,3,4,7,8,9-HpCDF	100	50.5	20.0 - 186
13C-OCDF	200	88.5	26.0 - 397
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	33.3	12.4 - 76.4

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613
Labeled compound concentration limits are based on required percent recovery of 25%-150%.

Analyst: _____ Date: 5/19/11

FAL ID: 2292-001-0001-OPR Filename: 18MAY11M Sam:2 Acquired: 18-MAY-11 10:50:01 ICal: PCDDFAL3-3-7-11
Client ID: OPR ConCal: ST051811M1 EndCal: ST051811M2
Results: 2292 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 110
WHO 1998 Tox: 139 WHO 2005 Tox: 127

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	3.95e+06	0.78 y	27:17	1.13	10.6		2.50	-	-	*
1,2,3,7,8-PeCDD	1.52e+07	1.52 y	33:06	1.02	58.7		2.50	-	-	*
1,2,3,4,7,8-HxCDD	1.29e+07	1.33 y	38:27	1.45	53.8		2.50	-	-	*
1,2,3,6,7,8-HxCDD	1.12e+07	1.23 y	38:37	1.45	54.0		2.50	-	-	*
1,2,3,7,8,9-HxCDD	1.25e+07	1.29 y	39:04	1.47	55.4		2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	8.25e+06	0.90 y	44:04	1.30	54.4		2.50	-	-	*
OCDD	1.08e+07	0.92 y	49:35	1.45	118		2.50	-	-	*
2,3,7,8-TCDF	7.43e+06	0.67 y	26:32	1.15	12.2		2.50	-	-	*
1,2,3,7,8-PeCDF	1.84e+07	1.55 y	31:21	0.89	54.4		2.50	-	-	*
2,3,4,7,8-PeCDF	1.82e+07	1.54 y	32:40	0.89	53.8		2.50	-	-	*
1,2,3,4,7,8-HxCDF	1.40e+07	1.23 y	37:04	1.01	52.0		2.50	-	-	*
1,2,3,6,7,8-HxCDF	1.57e+07	1.23 y	37:16	0.89	52.4		2.50	-	-	*
2,3,4,6,7,8-HxCDF	1.42e+07	1.24 y	38:12	1.02	51.1		2.50	-	-	*
1,2,3,7,8,9-HxCDF	1.43e+07	1.25 y	39:38	1.10	51.7		2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	9.60e+06	1.06 y	42:09	1.48	53.8		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	6.56e+06	1.02 y	44:58	1.43	52.5		2.50	-	-	*
OCDF	9.76e+06	0.90 y	49:56	0.84	99.3		2.50	-	-	*

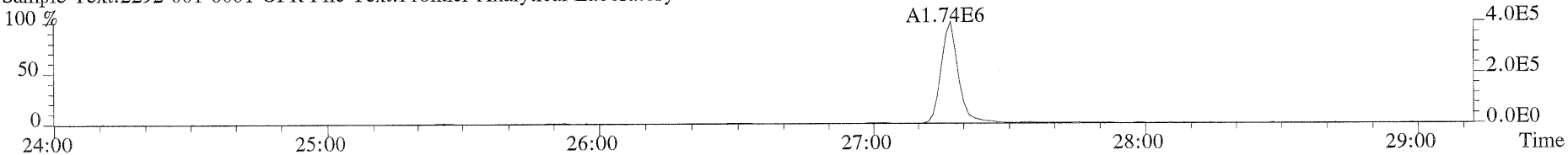
						Rec
13C-2,3,7,8-TCDD	3.28e+07	0.79 y	27:16	1.03	73.9	73.9
13C-1,2,3,7,8-PeCDD	2.55e+07	1.74 y	33:04	1.01	58.5	58.5
13C-1,2,3,4,7,8-HxCDD	1.66e+07	1.27 y	38:26	1.19	61.6	61.6
13C-1,2,3,6,7,8-HxCDD	1.42e+07	1.27 y	38:36	0.94	67.2	67.2
13C-1,2,3,4,6,7,8-HpCDD	1.17e+07	1.06 y	44:02	0.83	62.4	62.4
13C-OCDD	1.26e+07	0.95 y	49:33	0.61	91.6	45.8
13C-2,3,7,8-TCDF	5.33e+07	0.87 y	26:31	0.98	76.7	76.7
13C-1,2,3,7,8-PeCDF	3.82e+07	1.65 y	31:21	0.83	64.9	64.9
13C-2,3,4,7,8-PeCDF	3.80e+07	1.65 y	32:40	0.80	66.7	66.7
13C-1,2,3,4,7,8-HxCDF	2.66e+07	0.48 y	37:03	1.84	64.0	64.0
13C-1,2,3,6,7,8-HxCDF	3.35e+07	0.47 y	37:15	2.29	64.8	64.8
13C-2,3,4,6,7,8-HxCDF	2.73e+07	0.49 y	38:11	1.86	64.9	64.9
13C-1,2,3,7,8,9-HxCDF	2.50e+07	0.49 y	39:36	1.98	55.9	55.9
13C-1,2,3,4,6,7,8-HpCDF	1.20e+07	0.47 y	42:08	0.99	54.0	54.0
13C-1,2,3,4,7,8,9-HpCDF	8.75e+06	0.45 y	44:56	0.77	50.5	50.5
13C-OCDF	2.33e+07	0.96 y	49:55	1.17	88.5	44.3
37Cl-2,3,7,8-TCDD	1.05e+07		27:17	0.73	33.3	83.3

13C-1,2,3,4-TCDD	4.32e+07	0.79 y	26:42	-	114
13C-1,2,3,4-TCDF	7.09e+07	0.87 y	25:26	-	98.6
13C-1,2,3,7,8,9-HxCDD	2.26e+07	1.28 y	39:03	-	91.1

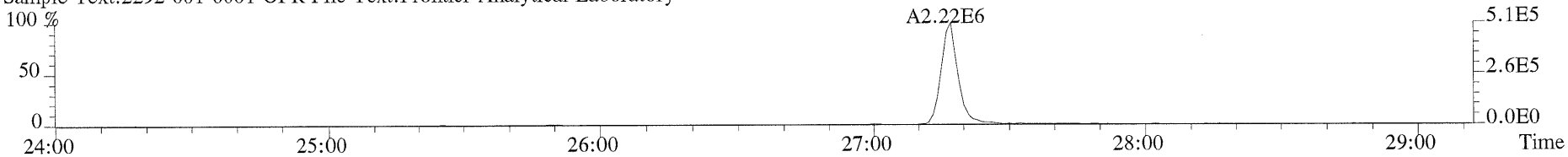
						Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	4.20e+06		22:54	1.13	11.3	2.50	-	-	*		30
Total Penta-Dioxins	1.55e+07		31:21	1.02	59.8	2.50	-	-	*		8
Total Hexa-Dioxins	3.70e+07		36:56	1.46	165	2.50	-	-	*		15
Total Hepta-Dioxins	8.93e+06		42:17	1.30	58.9	2.50	-	-	*		36
Total Tetra-Furans	7.82e+06		22:58	1.15	12.8	2.50	-	-	*		13
1st Fn. Tot Penta-Furans	2.39e+05		22:44	0.89	0.704	2.50	-	-	*	PeCDF	40
Total Penta-Furans	3.81e+07		30:06	0.89	112	2.50	-	-	*	113	15
Total Hexa-Furans	5.87e+07		35:07	1.00	209	2.50	-	-	*		20
Total Hepta-Furans	1.67e+07		42:09	1.46	110	2.50	-	-	*		12

Analyst: _____ Date: 5/19/11

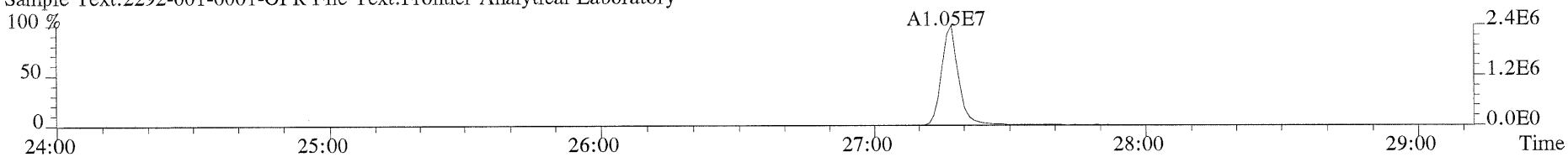
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



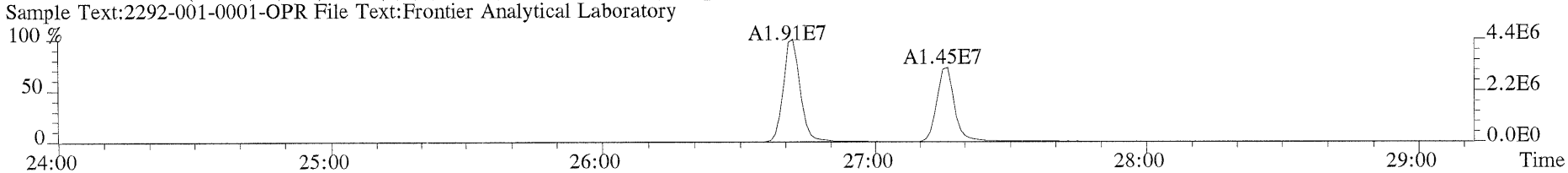
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



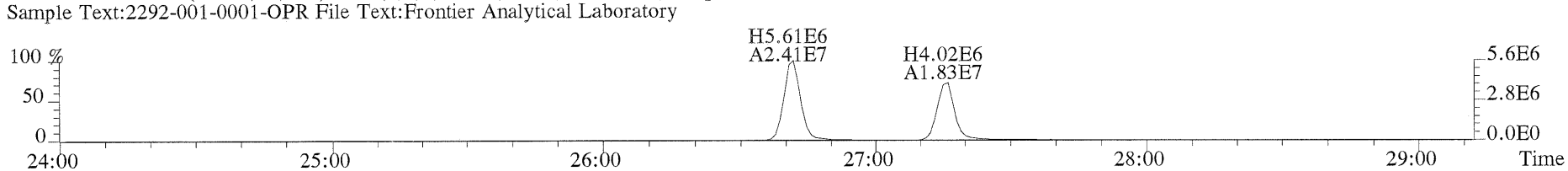
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



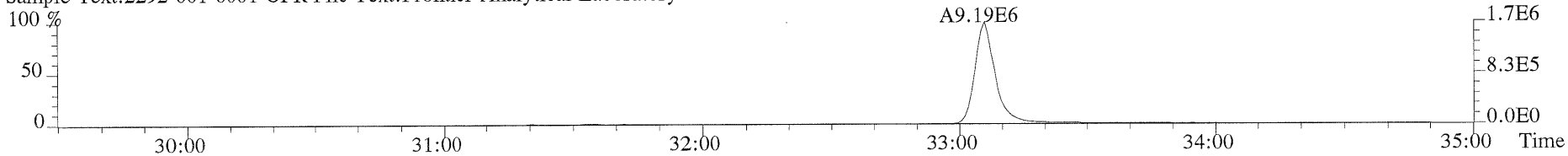
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



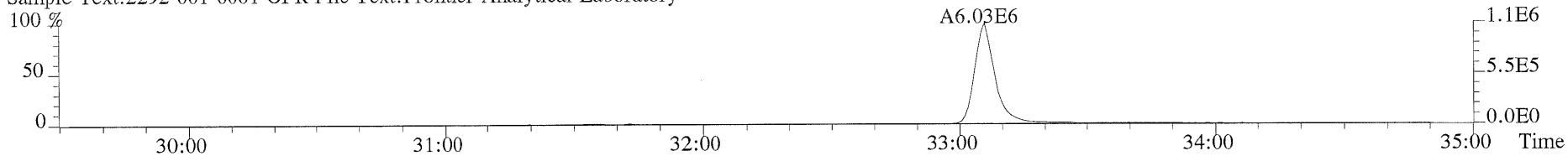
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



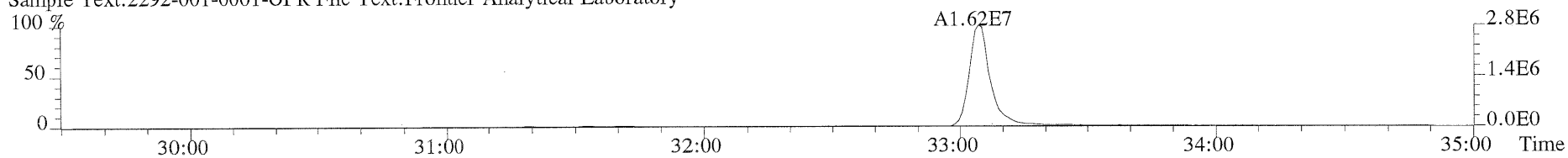
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



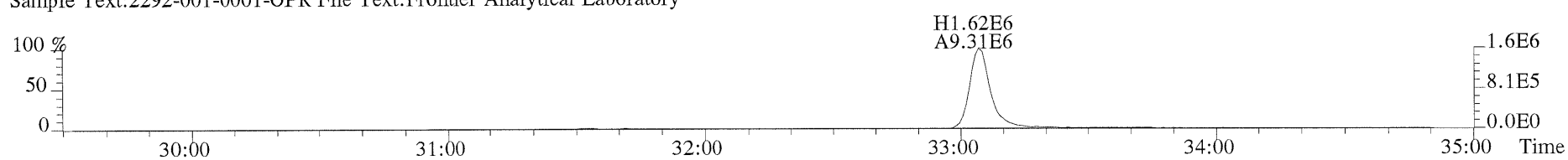
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



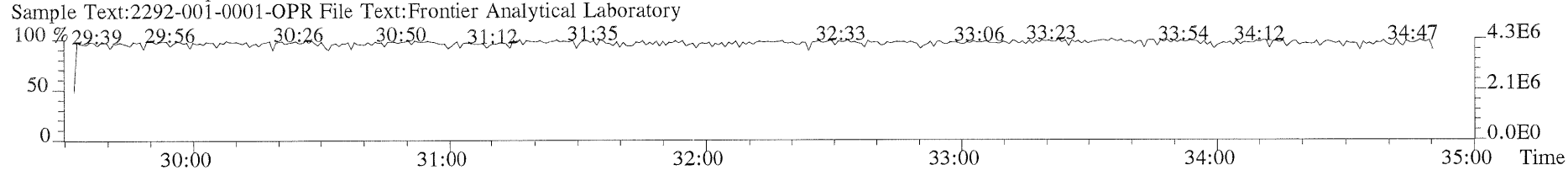
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



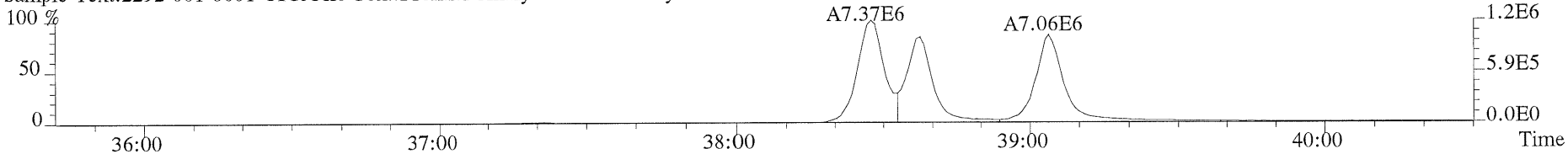
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



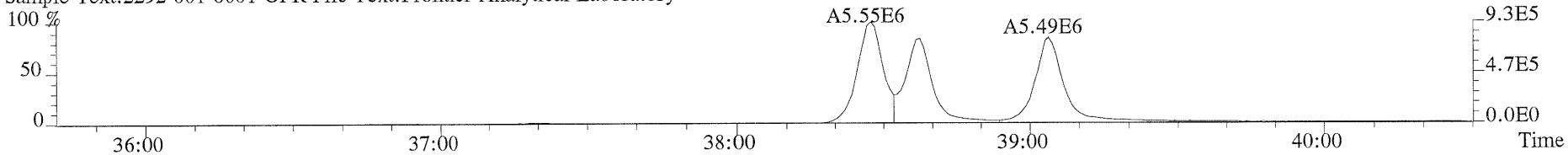
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:2 F:2 Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



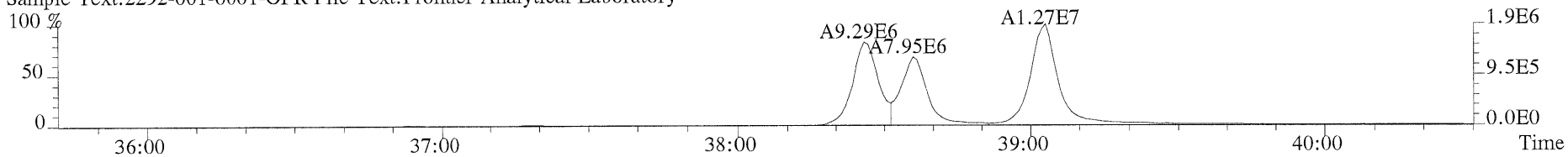
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



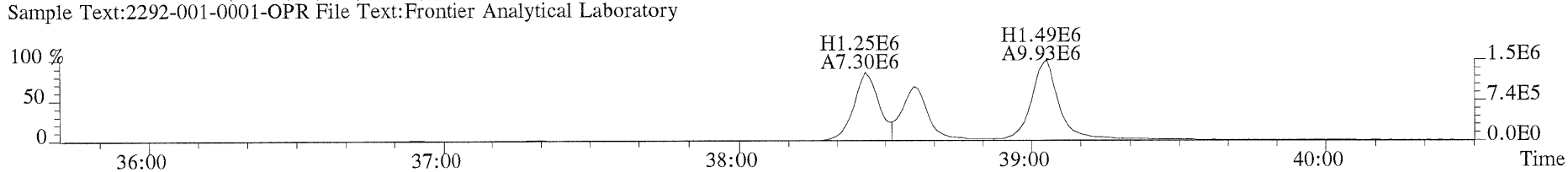
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



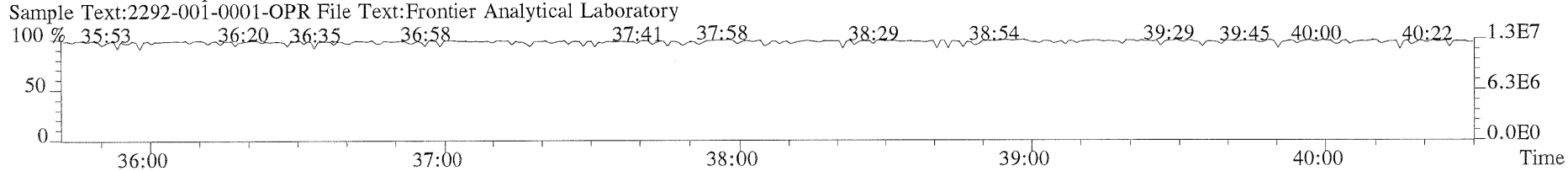
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



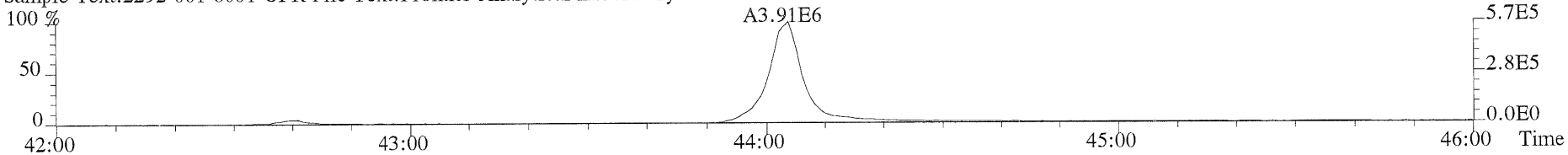
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



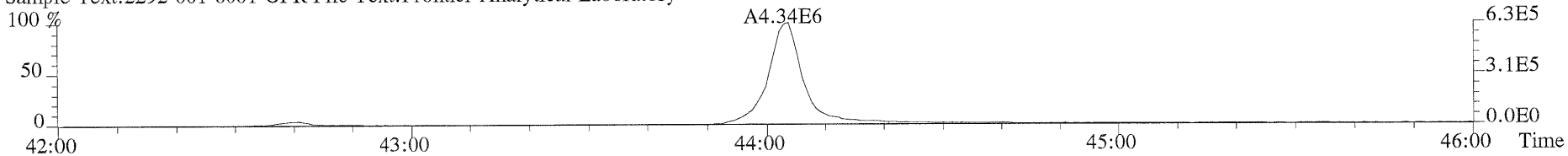
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:2 F:3 Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



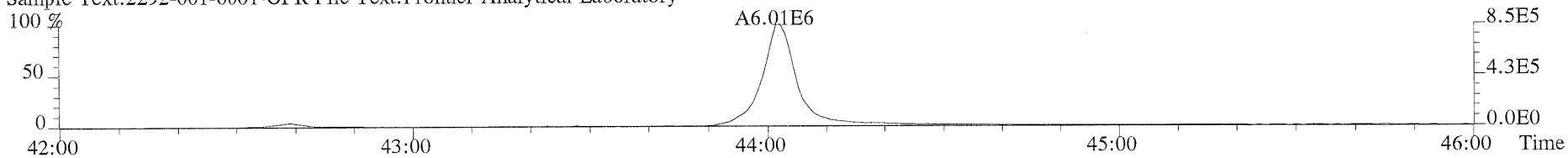
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



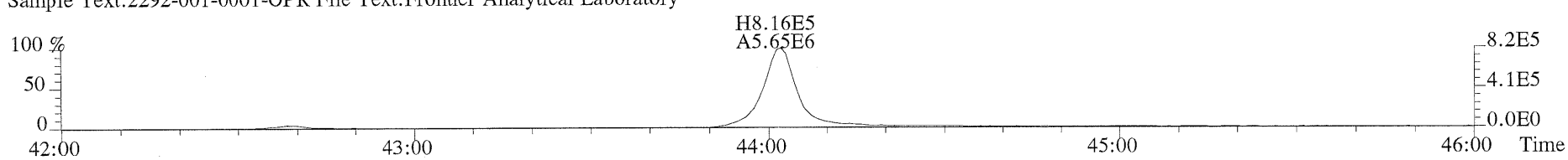
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



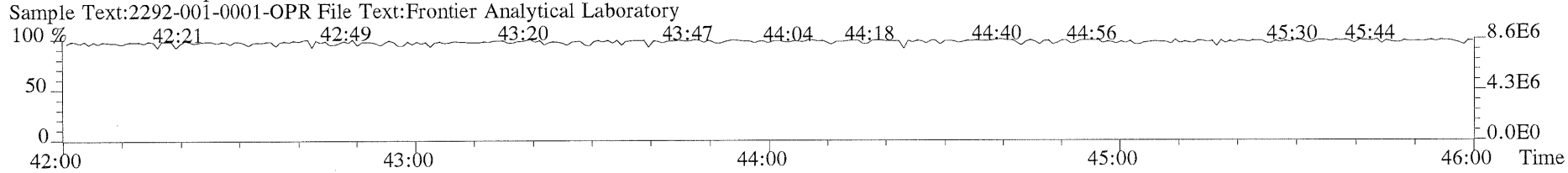
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



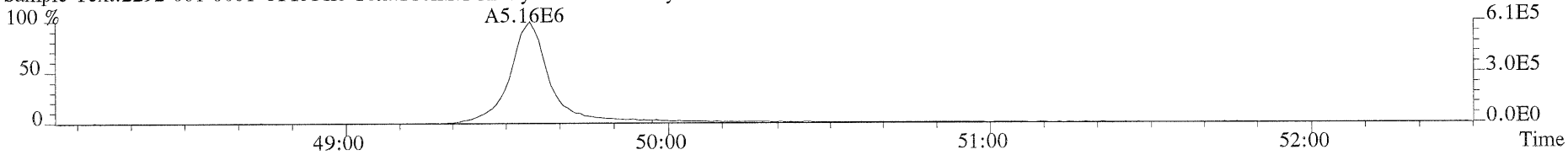
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



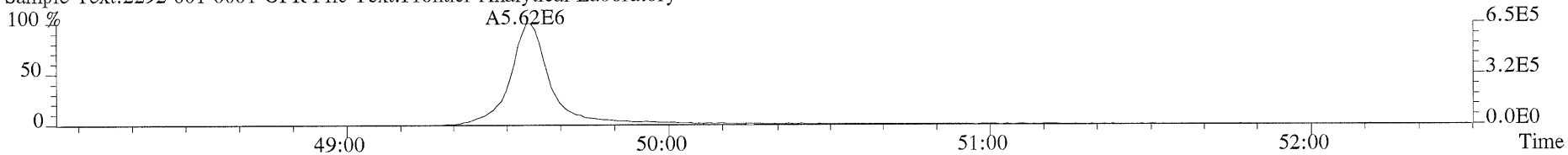
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:2 F:4 Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



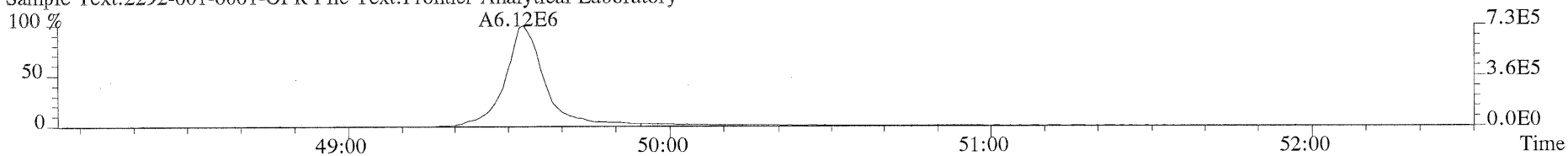
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



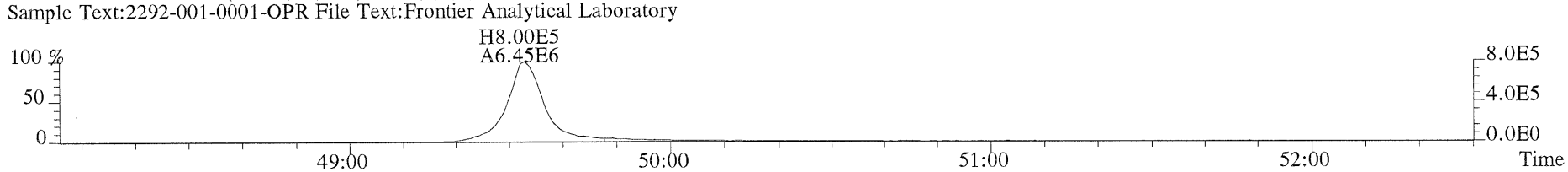
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



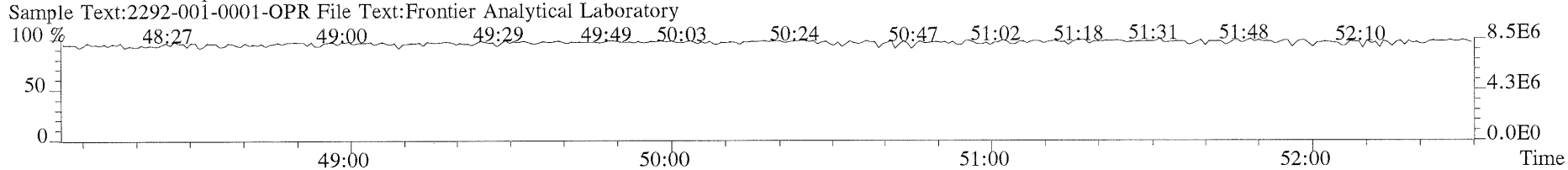
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



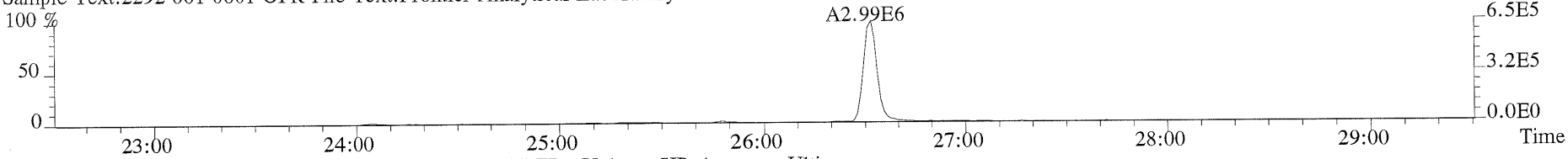
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



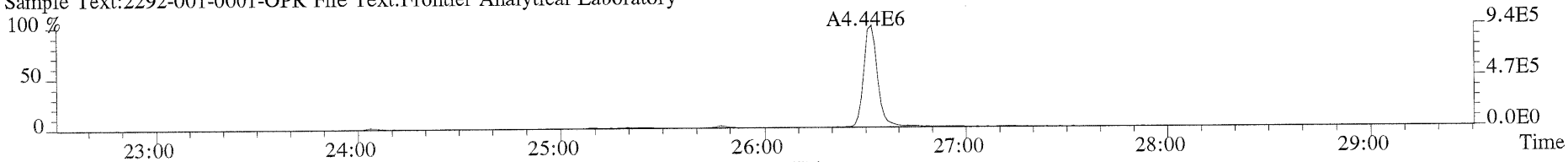
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:2 F:5 Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



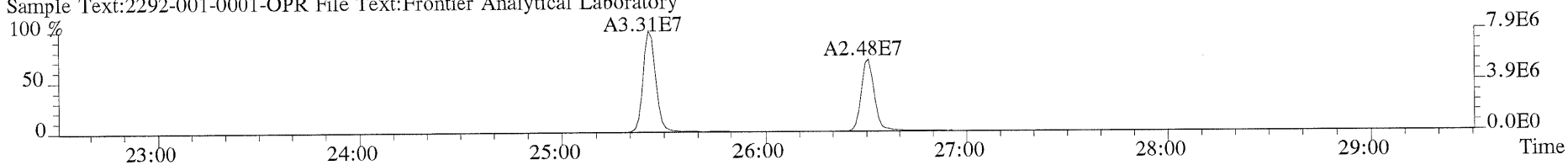
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



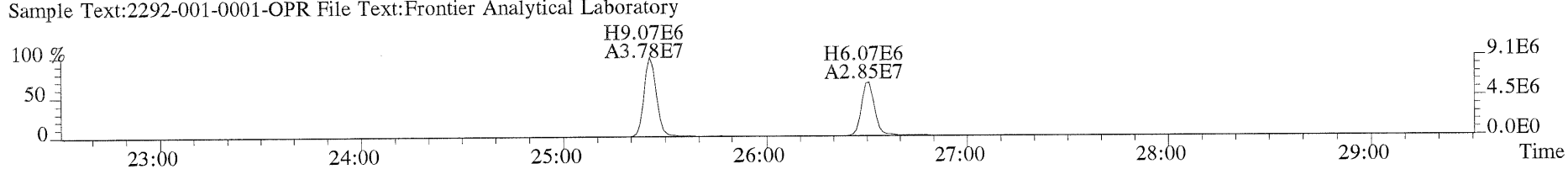
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



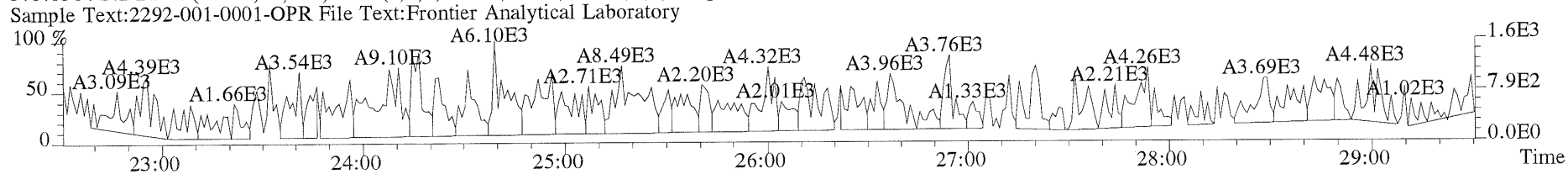
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



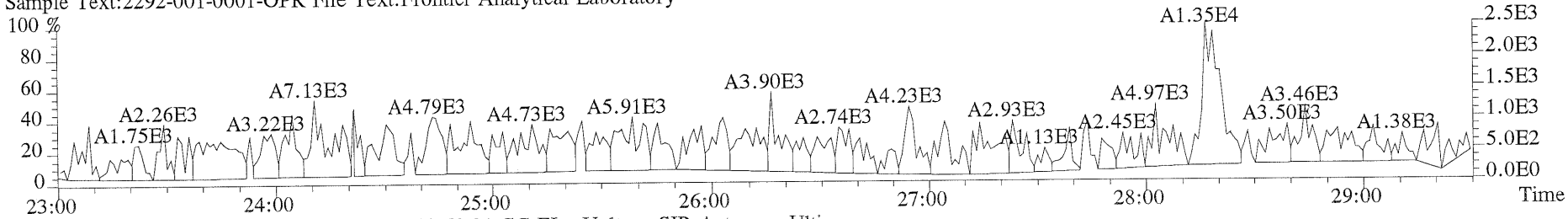
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



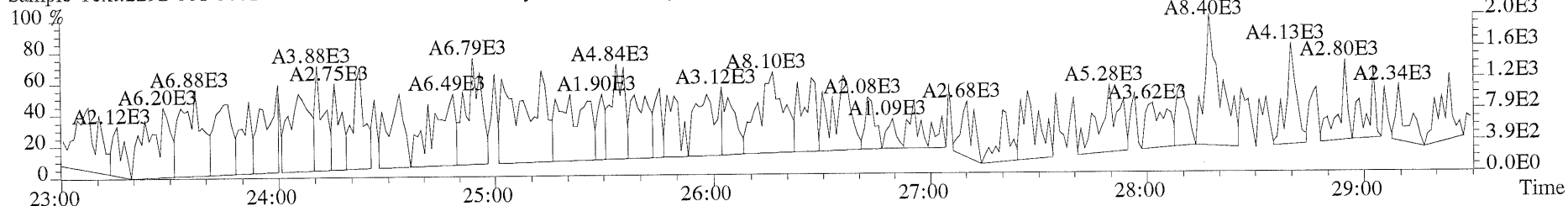
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



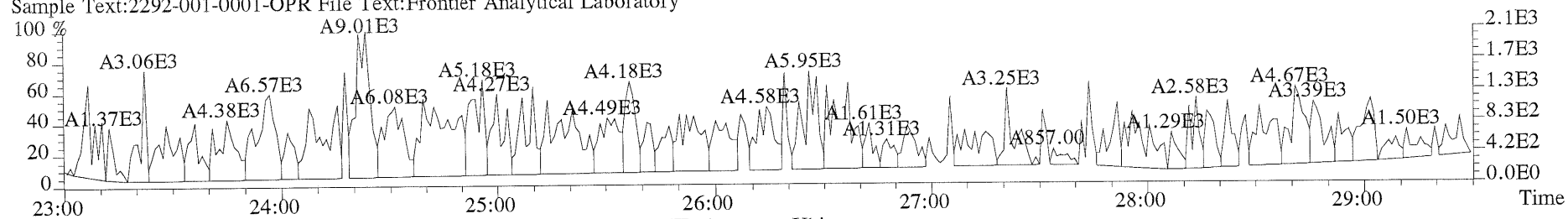
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



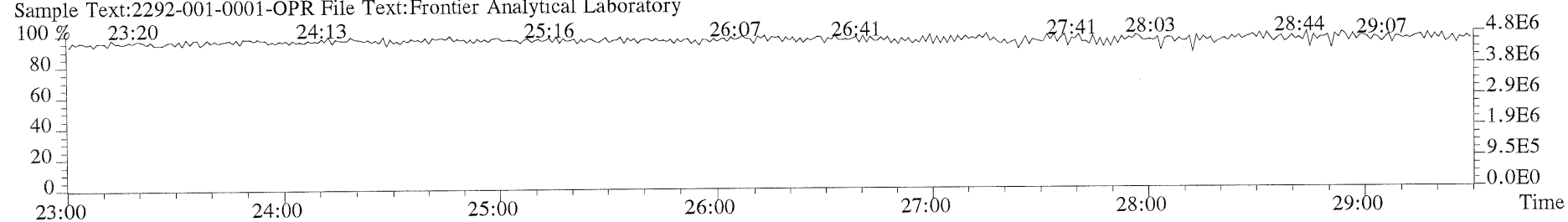
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



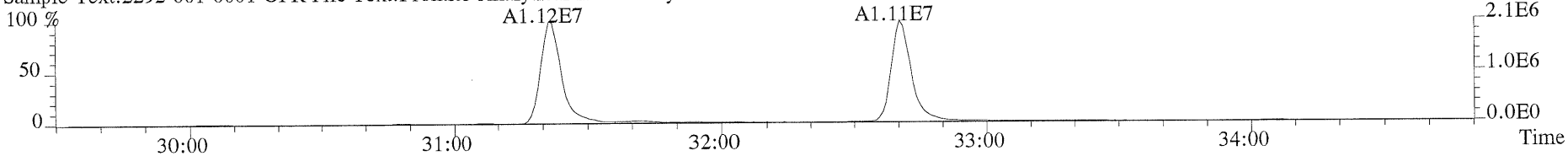
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



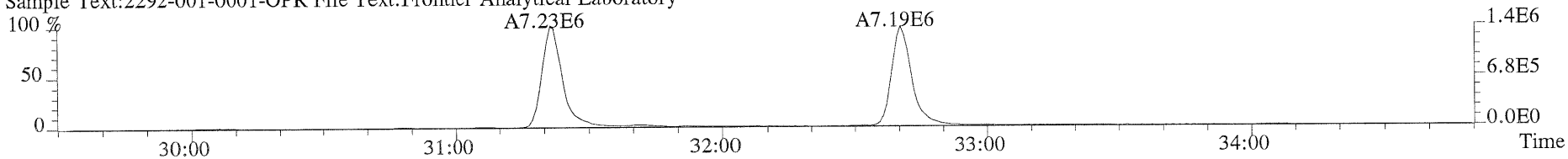
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
316.9824 S:2 Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



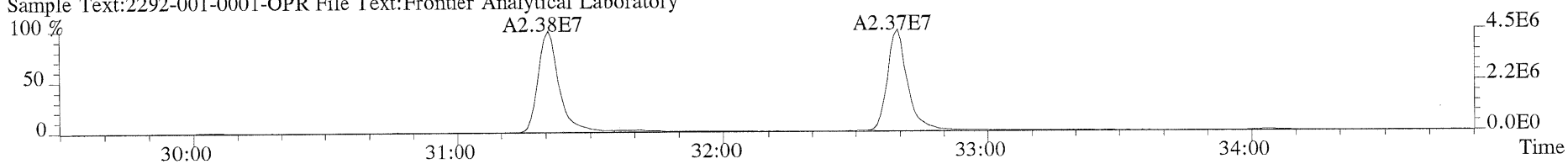
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



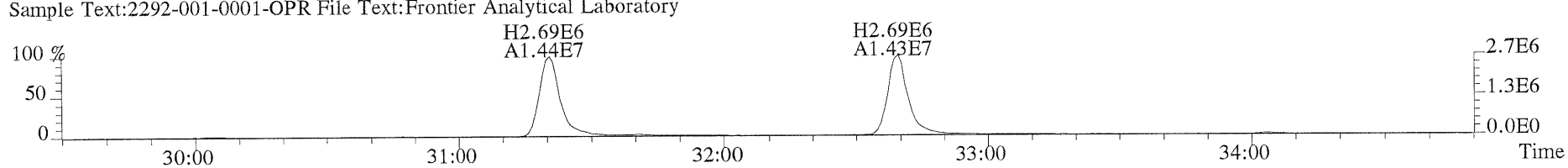
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



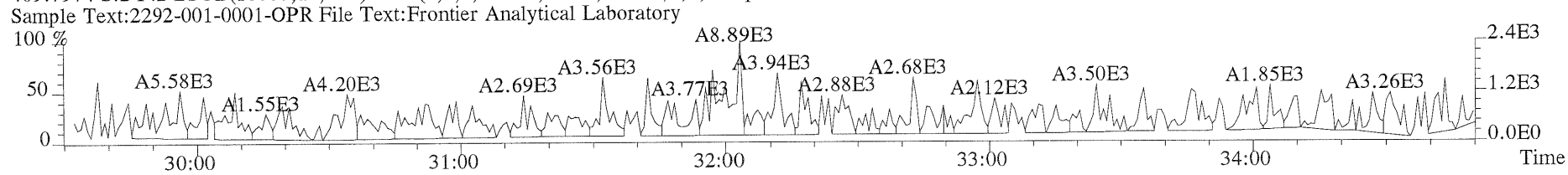
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



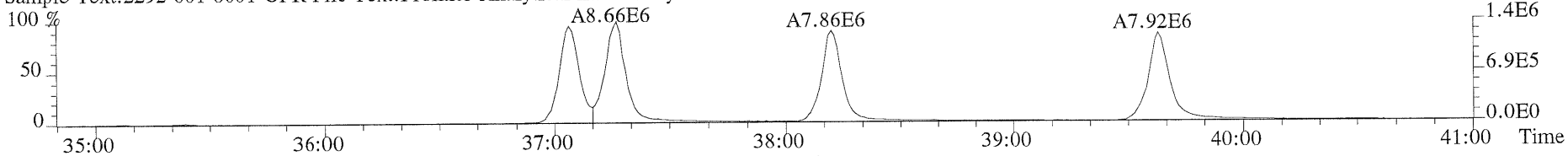
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



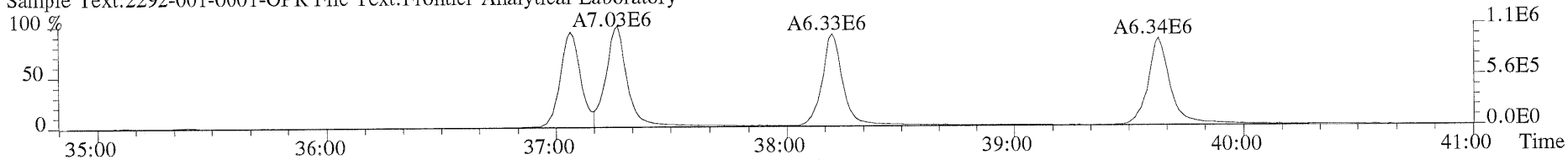
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



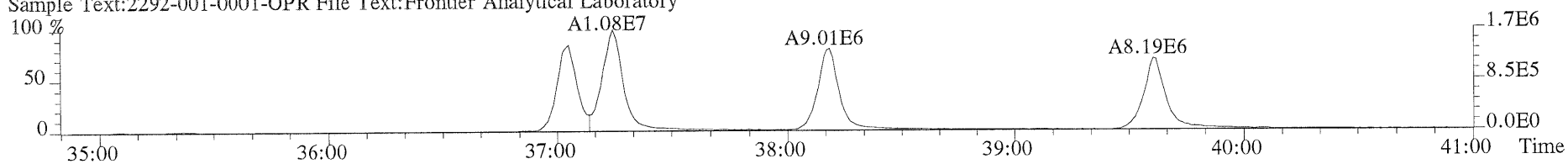
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



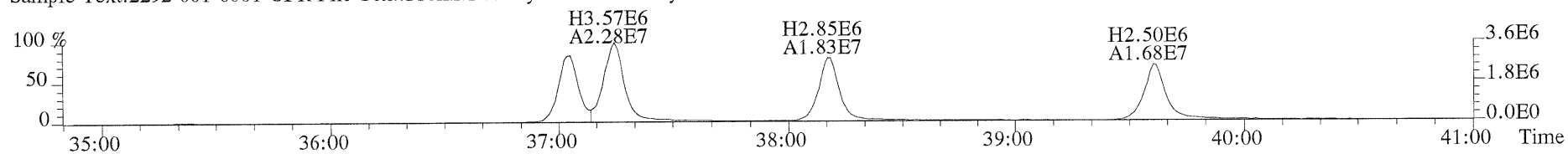
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



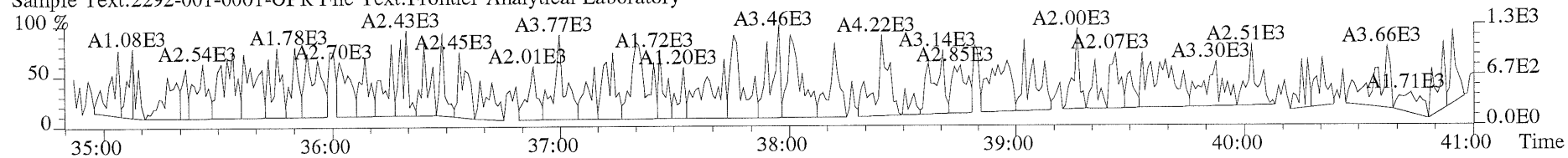
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



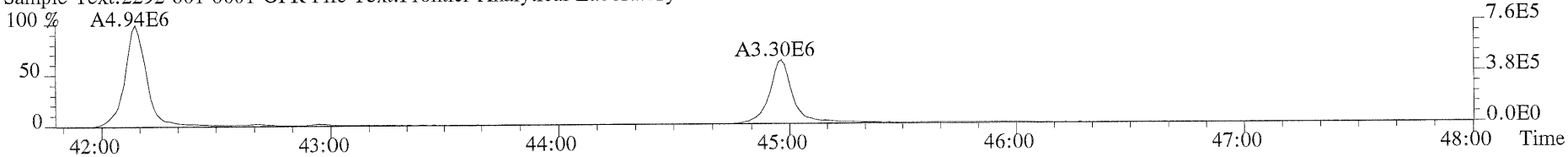
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



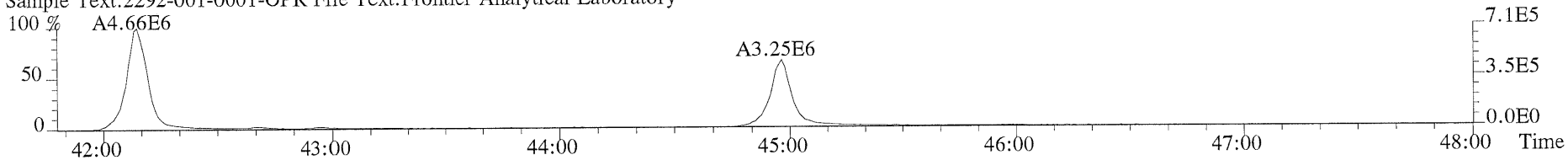
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



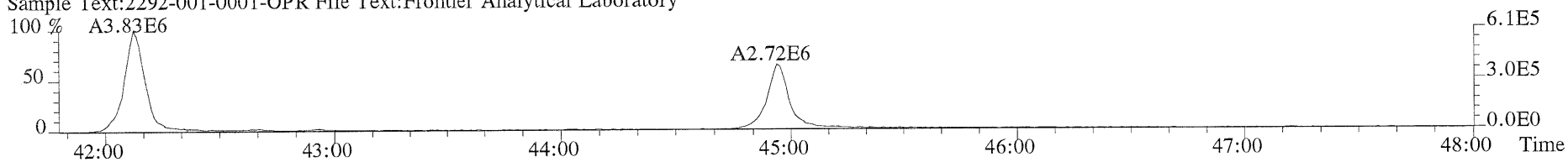
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



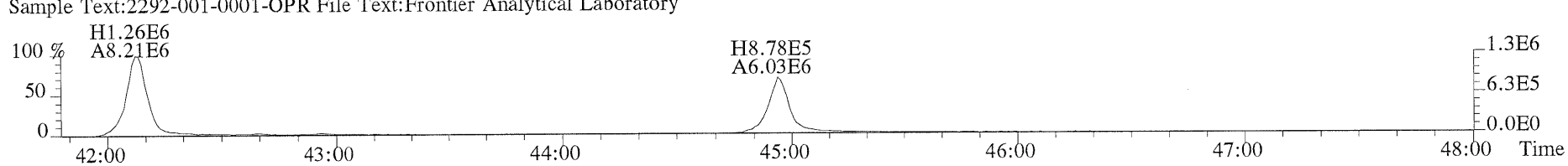
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



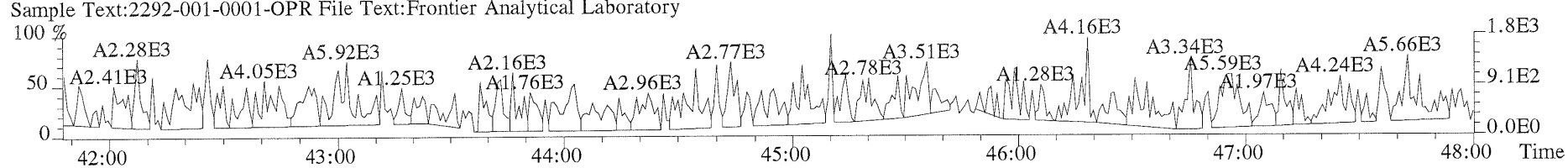
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



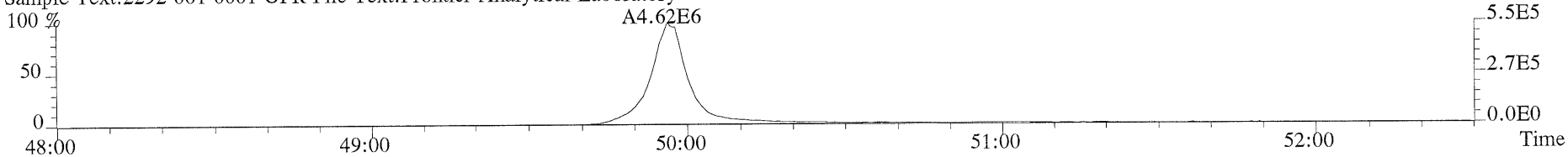
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



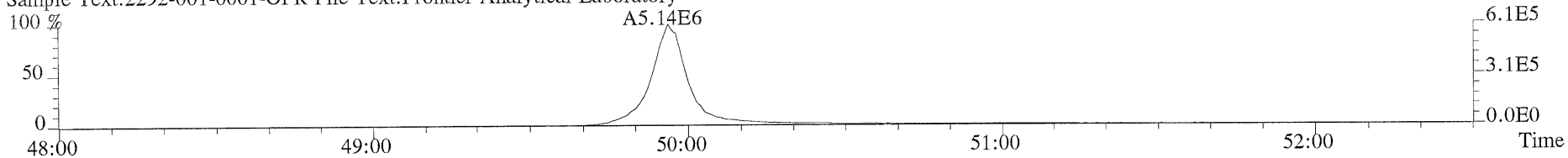
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



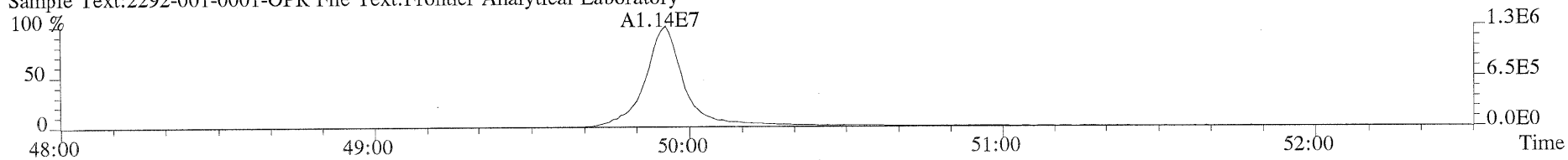
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



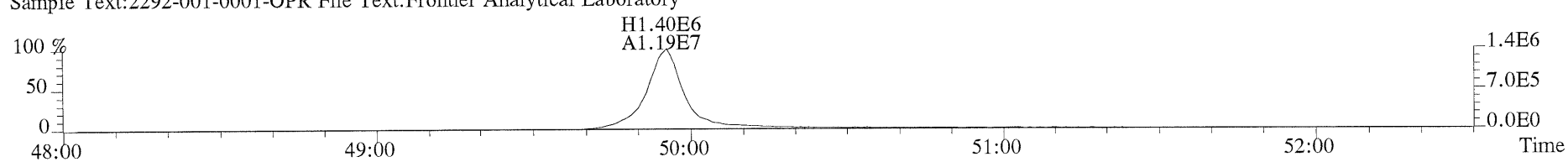
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



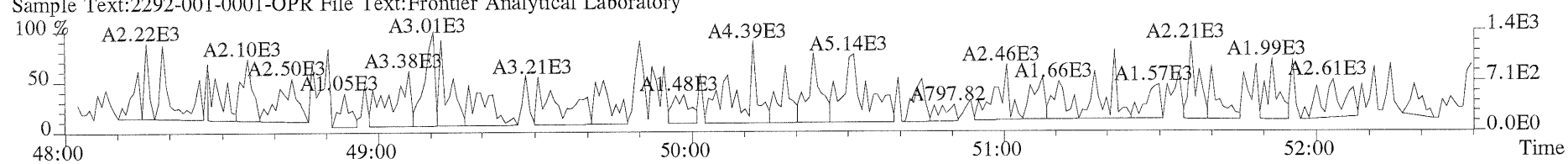
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 6742-001-0001-SA Filename: 18MAY11M Sam:4 Acquired: 18-MAY-11 12:40:47 ICal: PCDDFAL3-3-7-11
Client ID: MW5042811 ConCal: ST051811M1 EndCal: ST051811M2
Results: 6742 GC Column: db5 Amount: 1.018 NATO 1989 Tox: 0.429
WHO 1998 Tox: 0.295 WHO 2005 Tox: ~~0.324~~

GN 5/23/11
TEQ=0.325

Name	Resp	RA		RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	*	n	NotFnd	1.13	*		2.50	908	900	0.984
1,2,3,7,8-PeCDD	*	*	n	NotFnd	1.02	*		2.50	836	792	1.36
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.45	*		2.50	1660	1310	2.44
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.45	*		2.50	1660	1310	3.11
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.47	*		2.50	1660	1310	2.72
1,2,3,4,6,7,8-HpCDD	2.87e+05	0.89	y	44:03	1.30	24.5	J	2.50	-	-	*
OCDD	1.04e+06	0.90	y	49:34	1.45	139		2.50	-	-	*
2,3,7,8-TCDF	*	*	n	NotFnd	1.15	*		2.50	640	841	0.487
1,2,3,7,8-PeCDF	*	*	n	NotFnd	0.89	*		2.50	768	1020	1.02
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.89	*		2.50	768	1020	1.17
1,2,3,4,7,8-HxCDF	*	*	n	NotFnd	1.01	*		2.50	732	808	1.18
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	0.89	*		2.50	732	808	1.11
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.02	*		2.50	732	808	1.26
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.10	*		2.50	732	808	1.29
1,2,3,4,6,7,8-HpCDF	4.89e+04	0.98	y	42:10	1.48	3.50	J	2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.43	*		2.50	612	592	2.14
OCDF	8.03e+04	0.82	y	49:56	0.84	10.6	J	2.50	-	-	*
											Rec
13C-2,3,7,8-TCDD	3.61e+07	0.79	y	27:15	1.03	1620					82.6
13C-1,2,3,7,8-PeCDD	3.15e+07	1.73	y	33:04	1.01	1440					73.3
13C-1,2,3,4,7,8-HxCDD	2.30e+07	1.27	y	38:26	1.19	1600					81.2
13C-1,2,3,6,7,8-HxCDD	2.00e+07	1.29	y	38:36	0.94	1770					89.9
13C-1,2,3,4,6,7,8-HpCDD	1.77e+07	1.05	y	44:02	0.83	1770					90.0
13C-OCDD	2.04e+07	0.92	y	49:34	0.61	2770					70.6
13C-2,3,7,8-TCDF	5.76e+07	0.87	y	26:31	0.98	1700					86.4
13C-1,2,3,7,8-PeCDF	4.79e+07	1.66	y	31:20	0.83	1670					84.8
13C-2,3,4,7,8-PeCDF	4.47e+07	1.66	y	32:39	0.80	1600					81.6
13C-1,2,3,4,7,8-HxCDF	3.61e+07	0.48	y	37:03	1.84	1620					82.4
13C-1,2,3,6,7,8-HxCDF	4.67e+07	0.48	y	37:14	2.29	1680					85.6
13C-2,3,4,6,7,8-HxCDF	3.68e+07	0.48	y	38:11	1.86	1640					83.2
13C-1,2,3,7,8,9-HxCDF	3.56e+07	0.48	y	39:37	1.98	1490					75.6
13C-1,2,3,4,6,7,8-HpCDF	1.86e+07	0.45	y	42:08	0.99	1550					79.0
13C-1,2,3,4,7,8,9-HpCDF	1.31e+07	0.46	y	44:57	0.77	1410					71.8
13C-OCDF	3.53e+07	0.94	y	49:55	1.17	2510					63.8
37Cl-2,3,7,8-TCDD	1.02e+07			27:17	0.73	648					82.4
13C-1,2,3,4-TCDD	4.25e+07	0.78	y	26:41	-	110					
13C-1,2,3,4-TCDF	6.81e+07	0.88	y	25:25	-	92.9					
13C-1,2,3,7,8,9-HxCDD	2.38e+07	1.29	y	39:03	-	94.2					

								Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*			NotFnd	1.13	*		2.50	908	900	0.984		0
Total Penta-Dioxins	*			NotFnd	1.02	*		2.50	836	792	1.36		0
Total Hexa-Dioxins	*			NotFnd	1.46	*		2.50	1660	1310	3.11		0
Total Hepta-Dioxins	5.29e+05			42:41	1.30	45.1		2.50	-	-	*		2
Total Tetra-Furans	3.53e+05			25:42	1.15	10.5		2.50	-	-	*		3
1st Fn. Tot Penta-Furans	*			NotFnd	0.89	*		2.50	-	-	*	PeCDF	0
Total Penta-Furans	5.84e+04			31:39	0.89	2.79	J	2.50	-	-	*	2.79	1
Total Hexa-Furans	1.03e+05			36:17	1.00	5.23	J	2.50	-	-	*		2
Total Hepta-Furans	1.51e+05			42:10	1.46	12.2	J	2.50	-	-	*		2

Analyst: _____ Date: 5/19/11

Totals class: Total Hepta-Dioxins Entry #: 41

Run: 10 File: 18MAY11M S: 4 I: 1 F: 4
Acquired: 18-MAY-11 12:40:47

Total Concentration: 45.1 Unnamed Concentration: 20.673

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:41	1.25e+05	1.17e+05	1.08 y	2.42e+05	20.7	
44:03	1.35e+05	1.51e+05	0.89 y	2.87e+05	24.5	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans Entry #: 42

Run: 10 File: 18MAY11M S: 4 I: 1 F: 1
Acquired: 18-MAY-11 12:40:47

Total Concentration: 10.5 Unnamed Concentration: 10.492

RT	ml Resp	m2 Resp	RA		Resp	Concentration	Name
25:42	2.71e+04	3.55e+04	0.76	y	6.27e+04	1.86	
27:45	8.44e+04	1.19e+05	0.71	y	2.03e+05	6.03	
27:57	3.58e+04	5.18e+04	0.69	y	8.76e+04	2.60	

Totals class: Total Penta-Furans Entry #: 44

Run: 10 File: 18MAY11M S: 4 I: 1 F: 2
Acquired: 18-MAY-11 12:40:47

Total Concentration: 2.79 Unnamed Concentration: 2.789

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
31:39	3.35e+04	2.49e+04	1.34 y	5.84e+04	2.79	

Totals class: Total Hexa-Furans Entry #: 45

Run: 10 File: 18MAY11M S: 4 I: 1 F: 3
Acquired: 18-MAY-11 12:40:47

Total Concentration: 5.23 Unnamed Concentration: 5.228

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:17	2.36e+04	2.13e+04	1.11 y	4.48e+04	2.27	
38:00	3.29e+04	2.56e+04	1.28 y	5.85e+04	2.96	

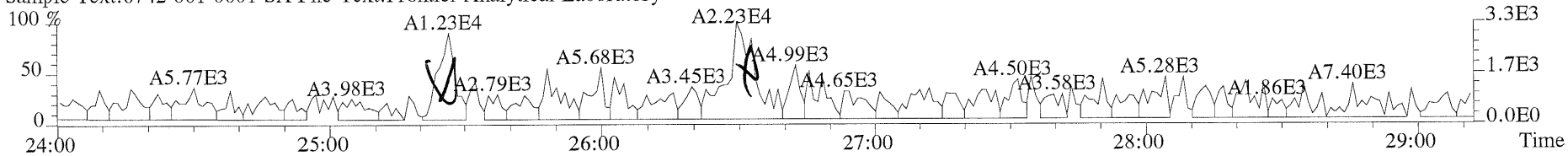
Totals class: Total Hepta-Furans Entry #: 46

Run: 10 File: 18MAY11M S: 4 I: 1 F: 4
Acquired: 18-MAY-11 12:40:47

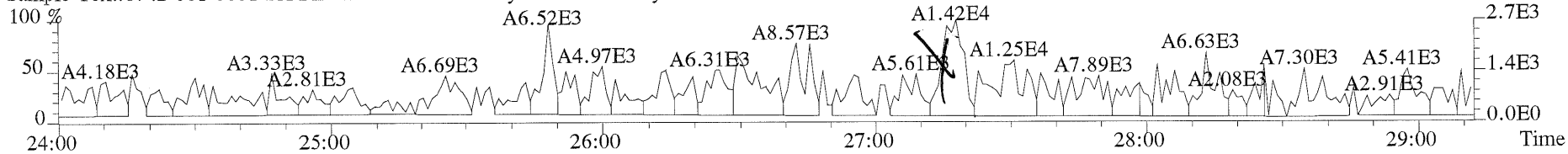
Total Concentration: 12.2 Unnamed Concentration: 8.676

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:10	2.42e+04	2.47e+04	0.98 y	4.89e+04	3.50	1,2,3,4,6,7,8-HpCDF
42:58	5.20e+04	4.98e+04	1.04 y	1.02e+05	8.68	

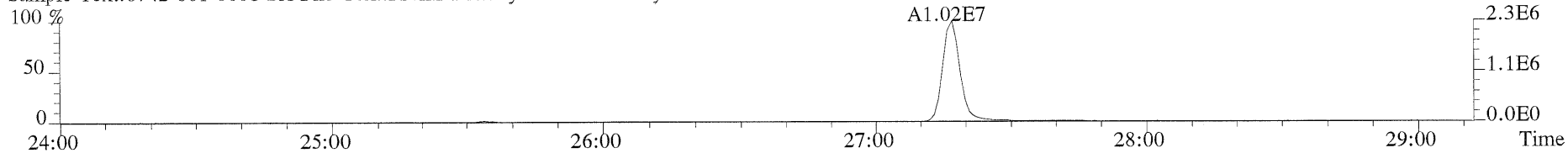
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



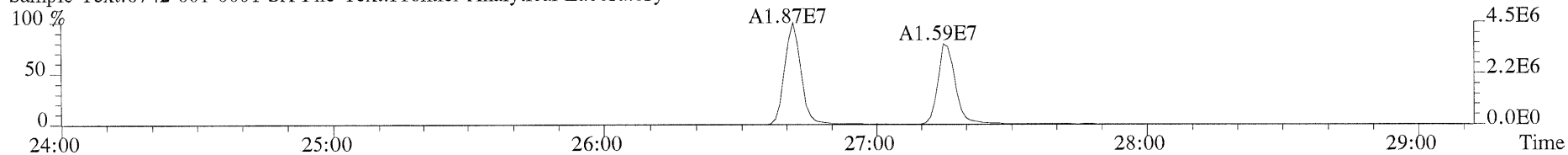
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



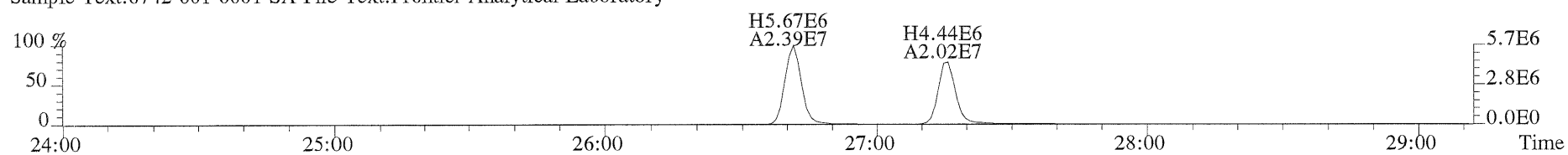
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



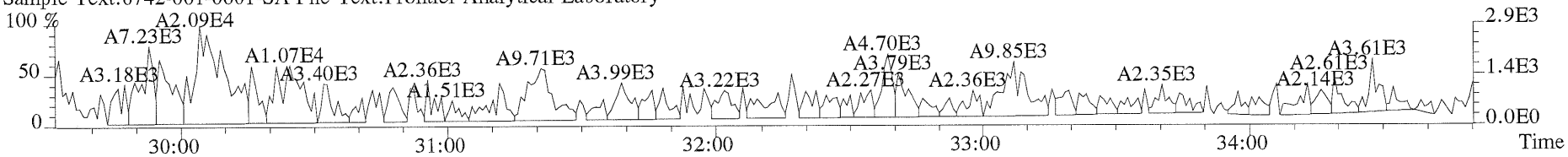
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



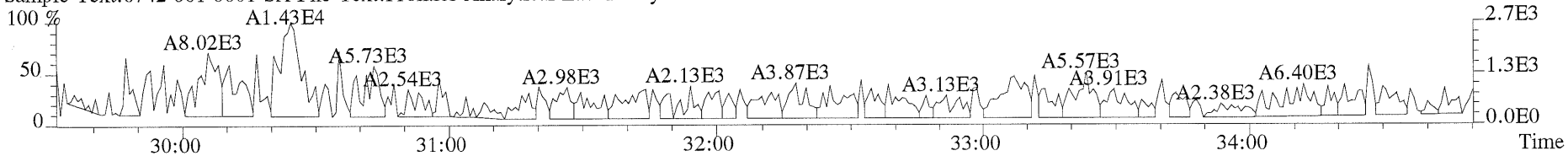
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



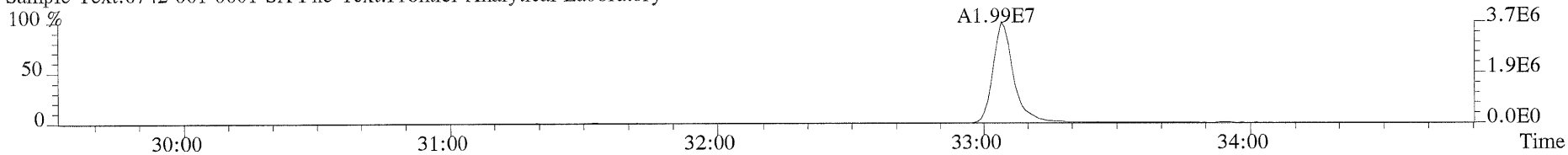
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



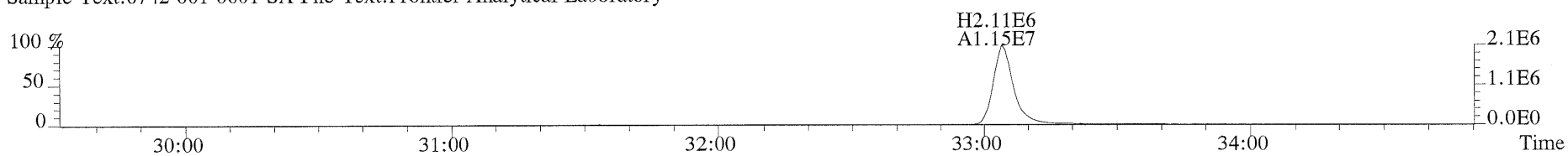
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



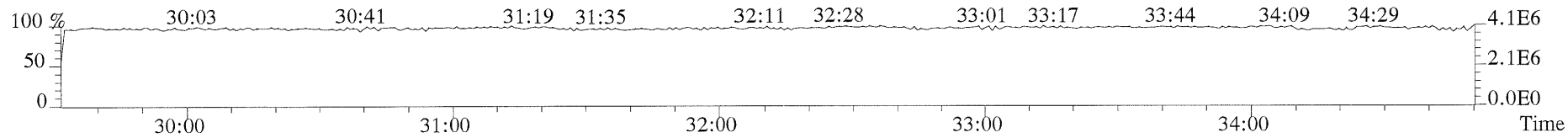
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



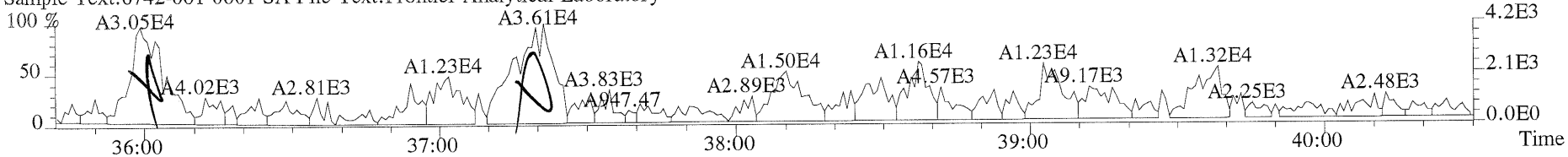
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



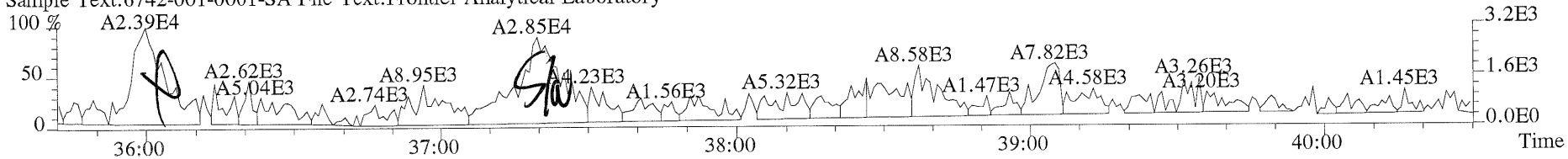
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:4 F:2 Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



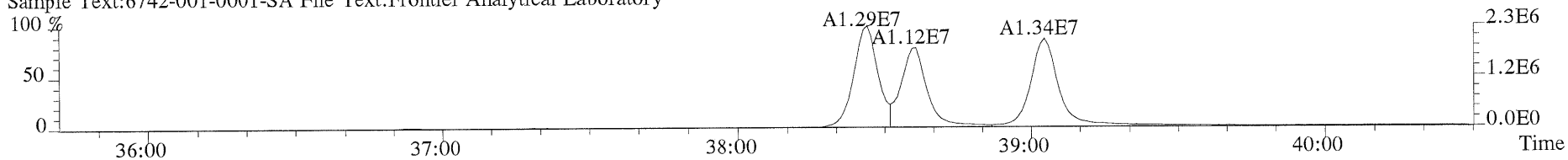
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



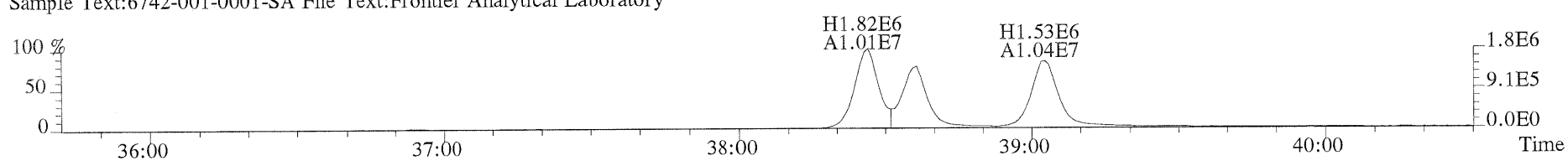
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



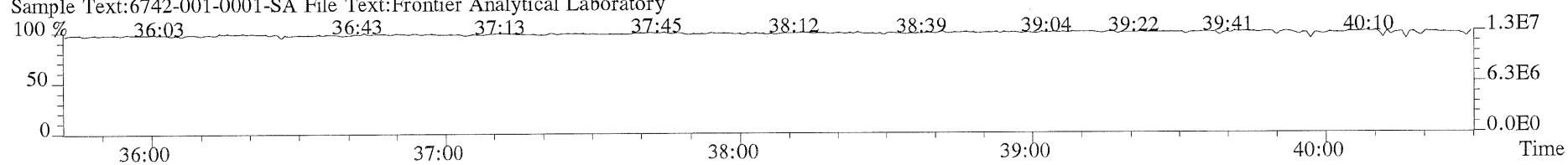
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



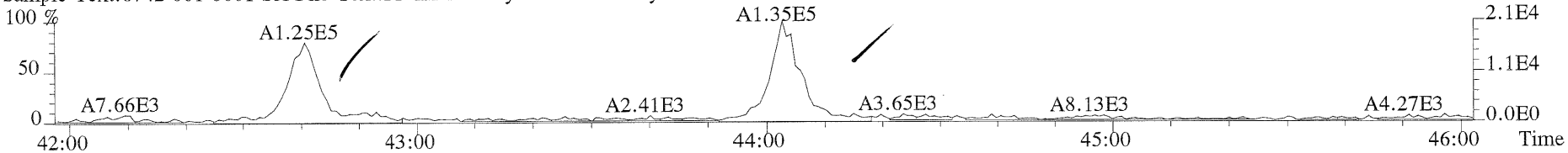
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



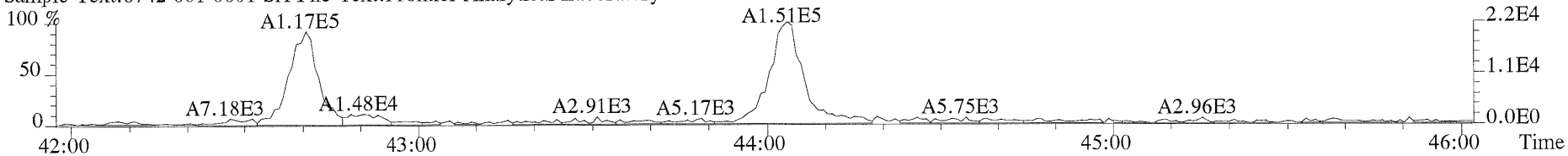
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:4 F:3 Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



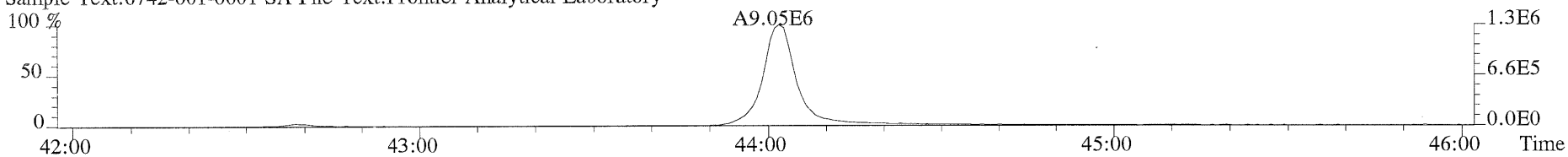
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



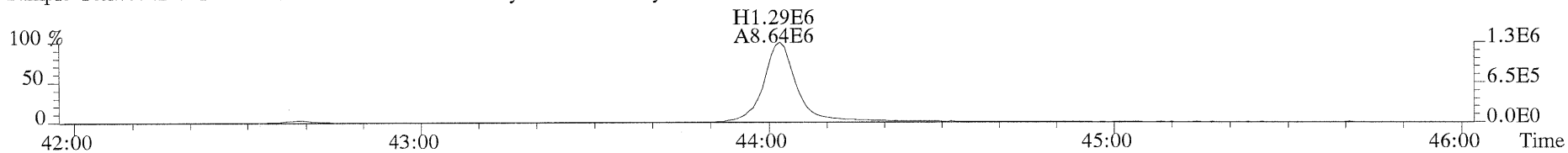
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



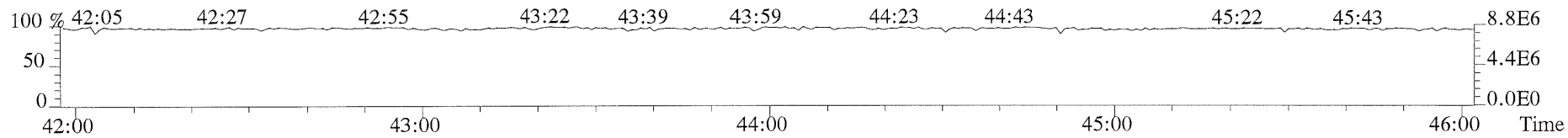
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



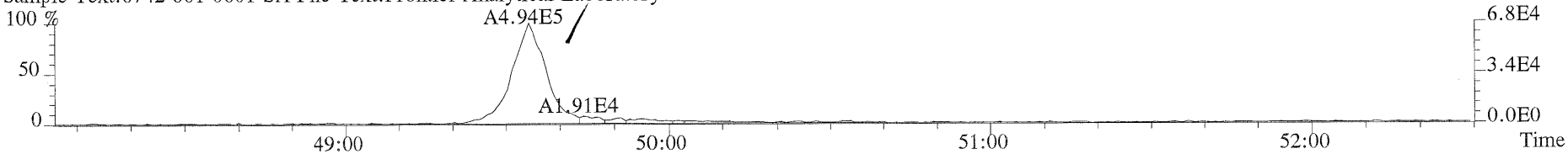
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



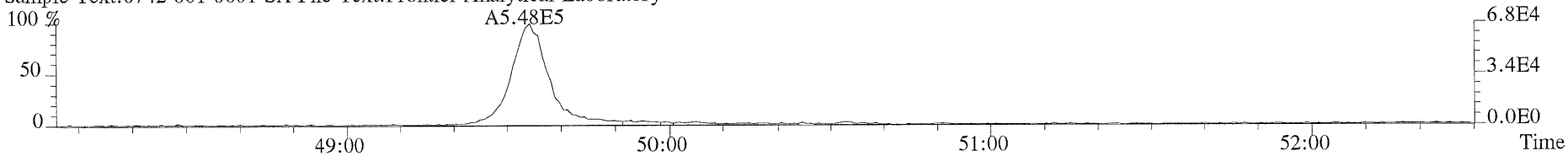
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:4 F:4 Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



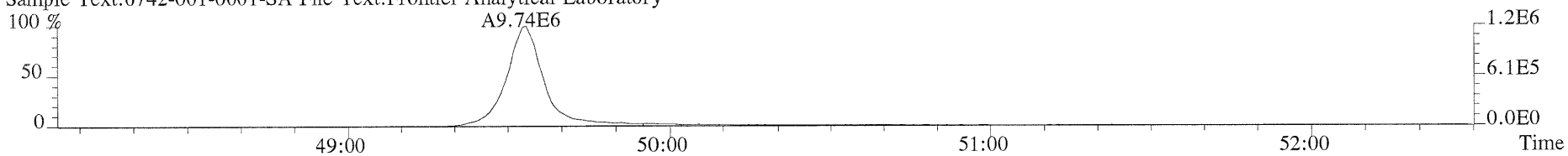
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



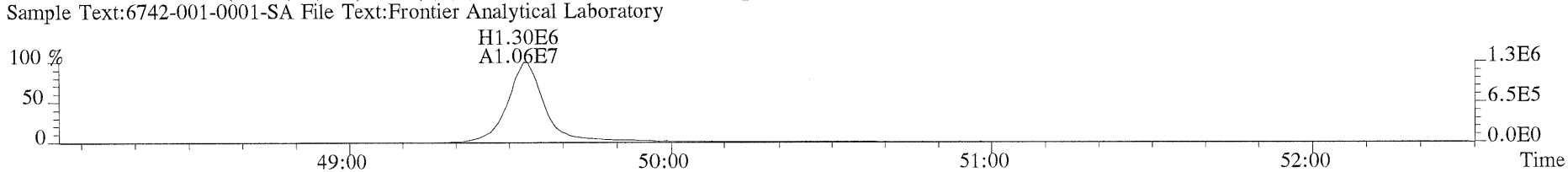
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



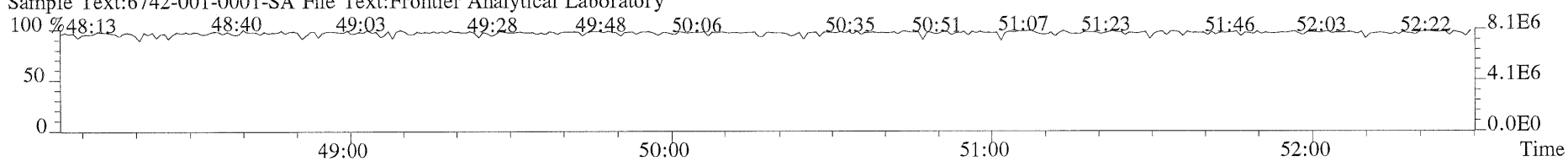
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



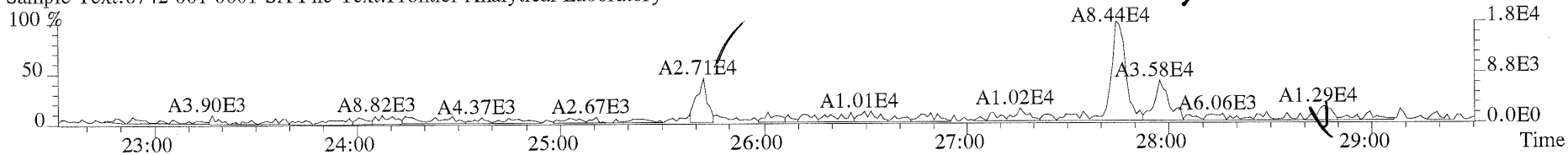
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



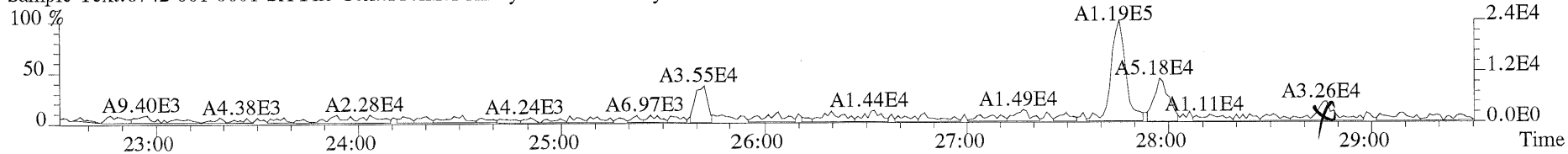
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:4 F:5 Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



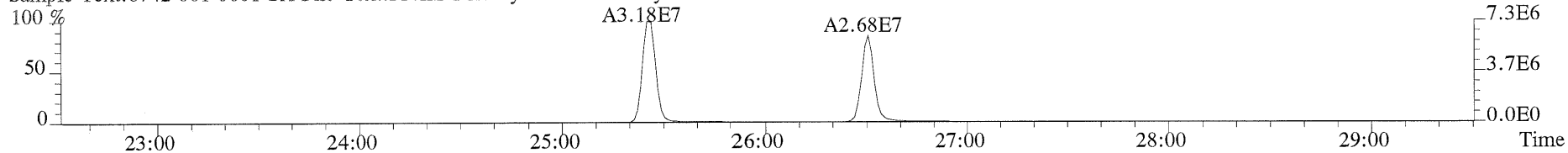
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



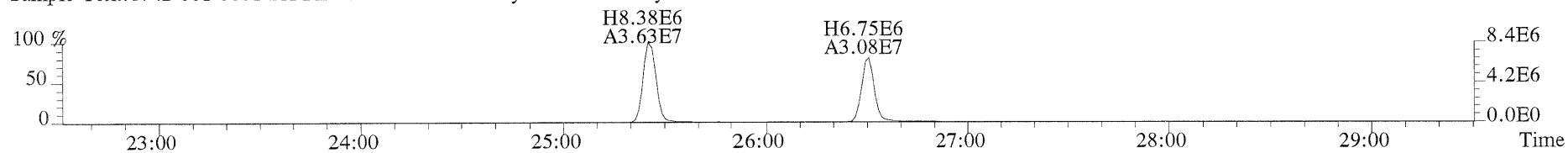
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



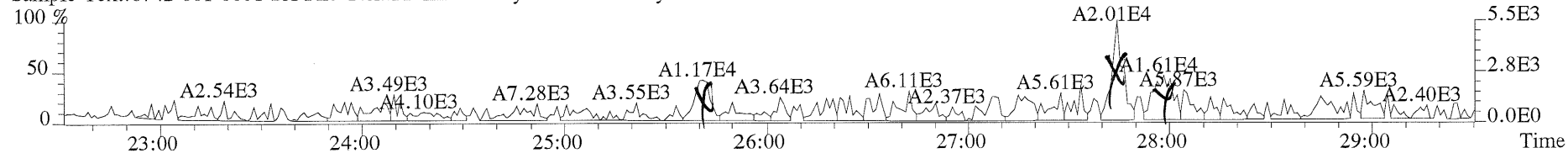
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



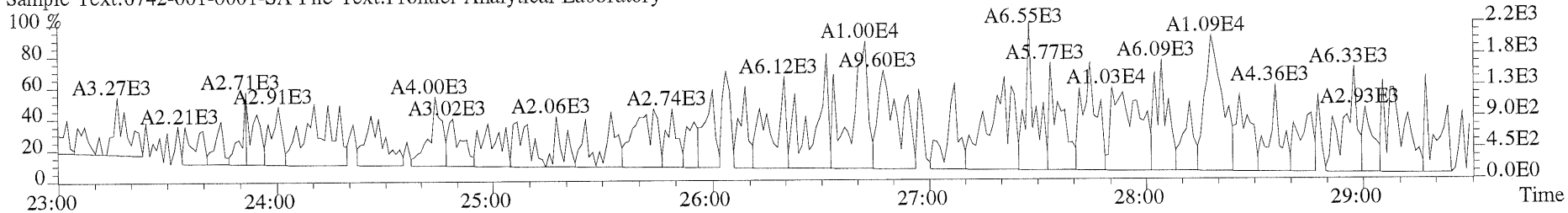
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



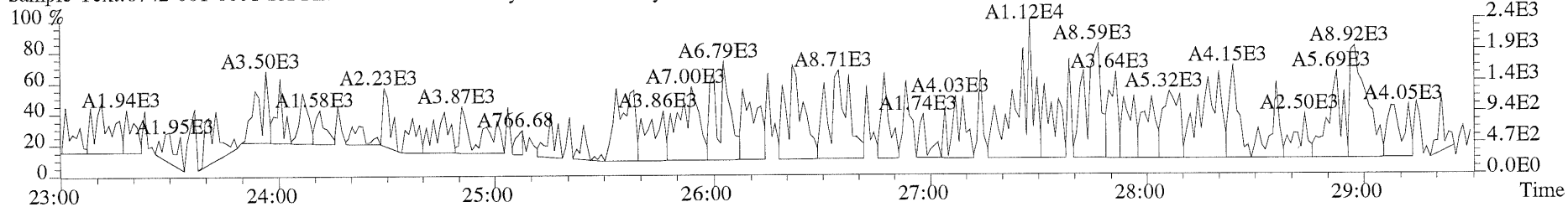
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



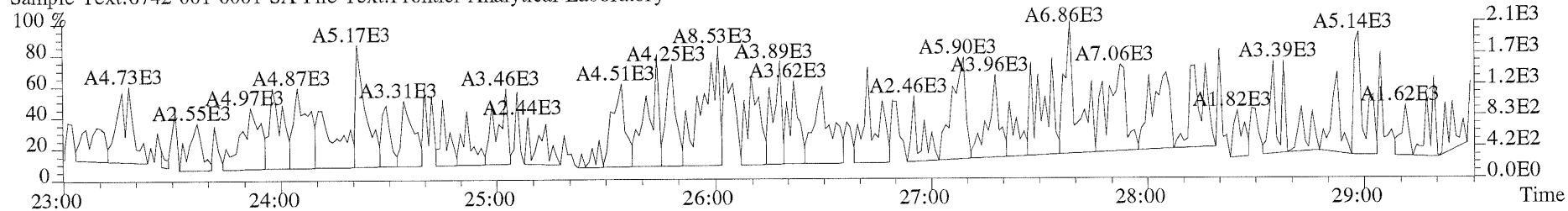
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



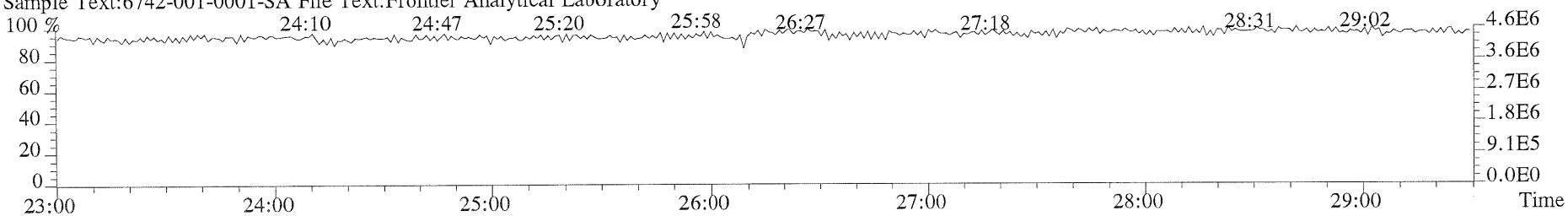
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



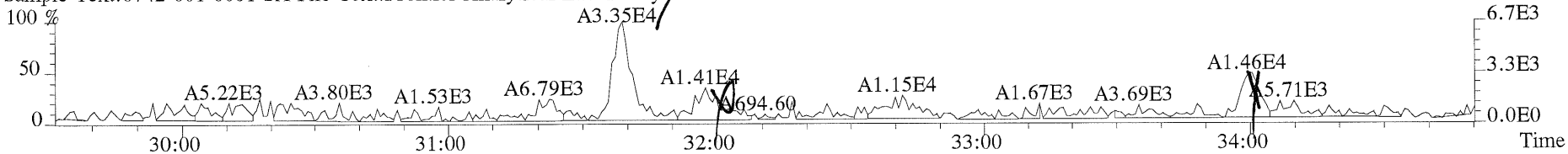
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



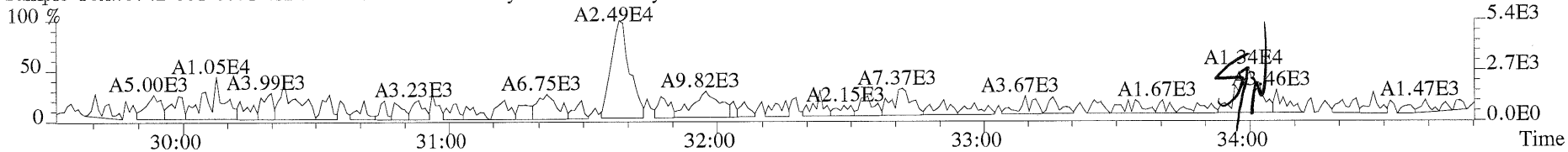
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
316.9824 S:4 Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



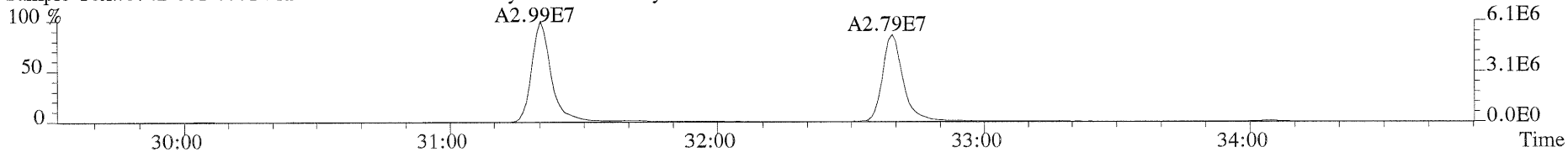
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



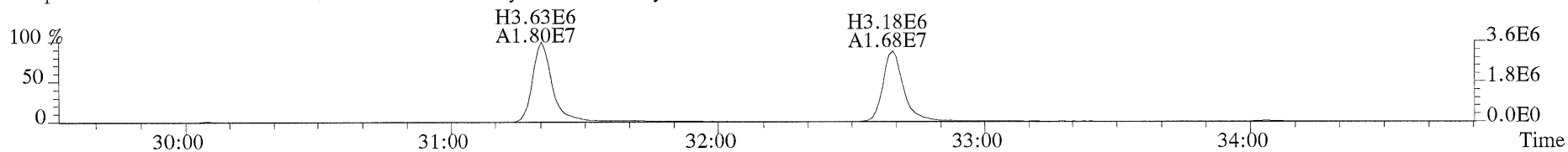
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



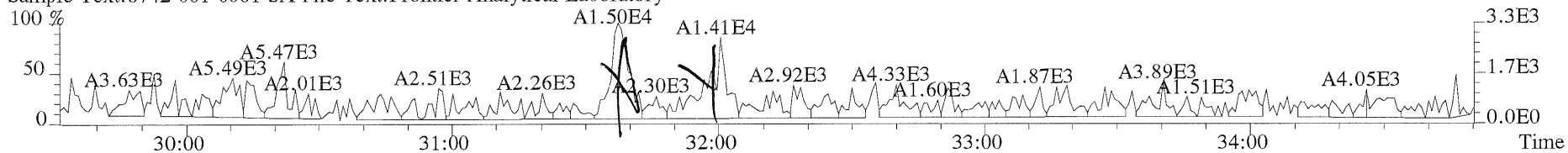
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



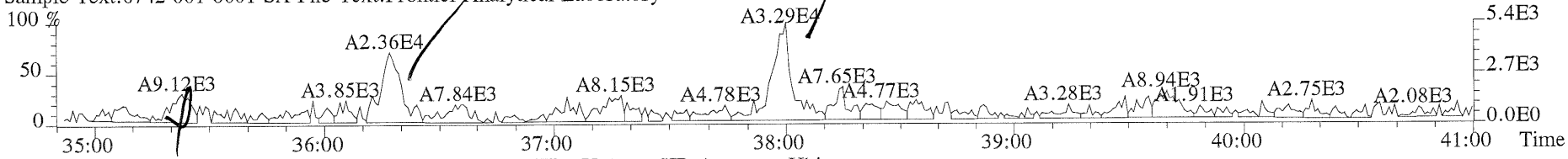
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



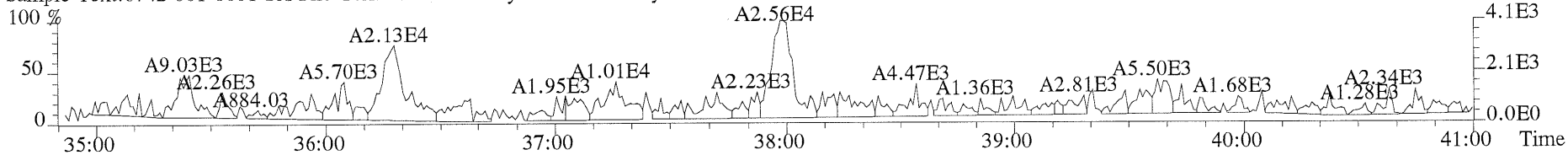
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



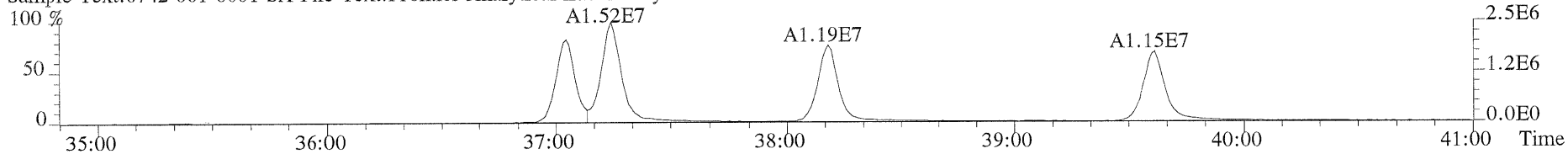
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



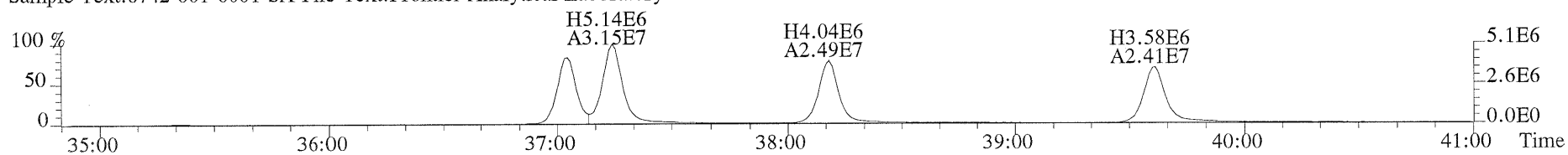
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



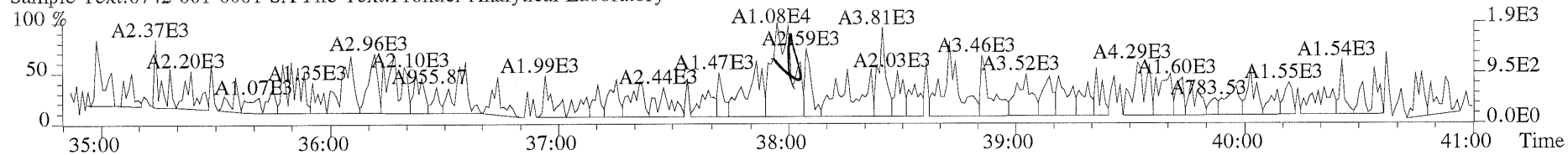
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



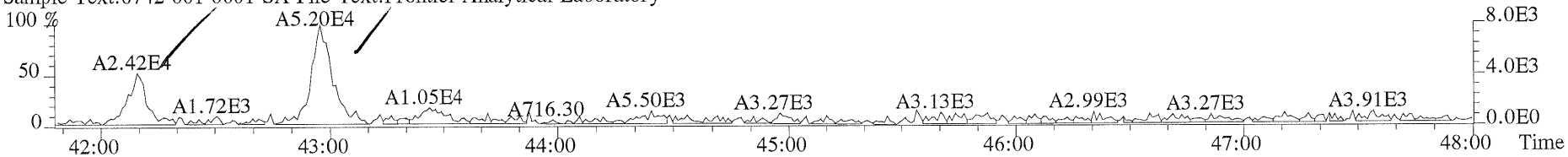
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



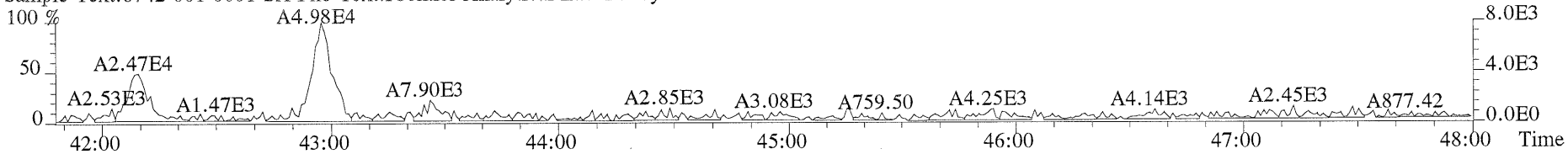
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



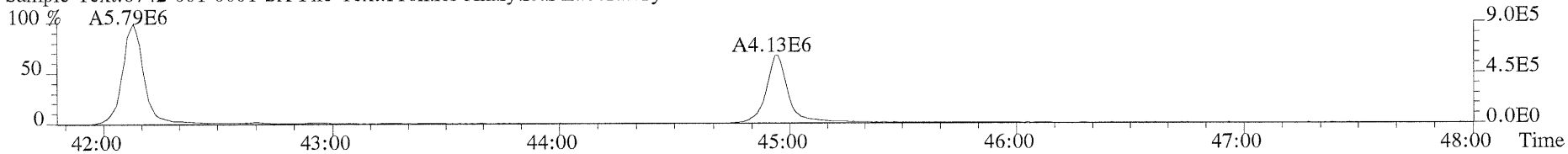
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



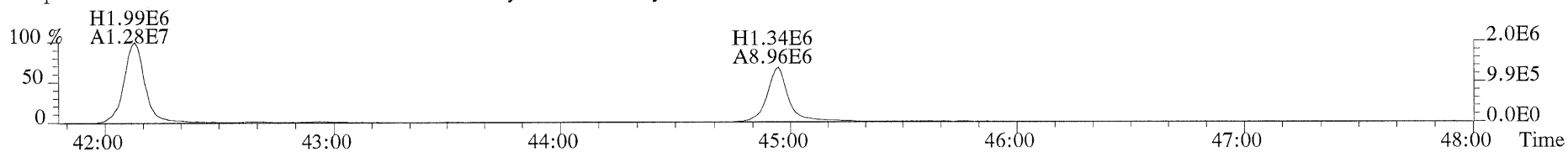
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



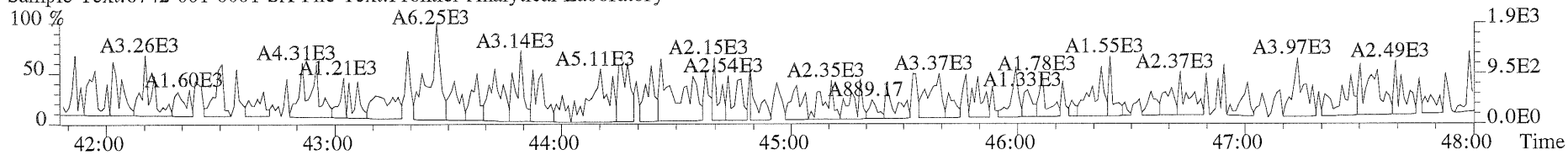
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



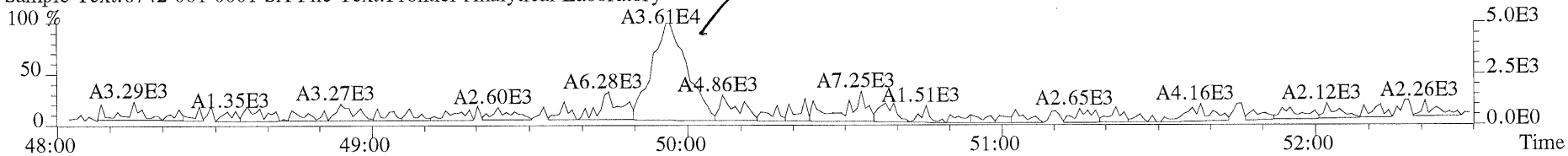
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



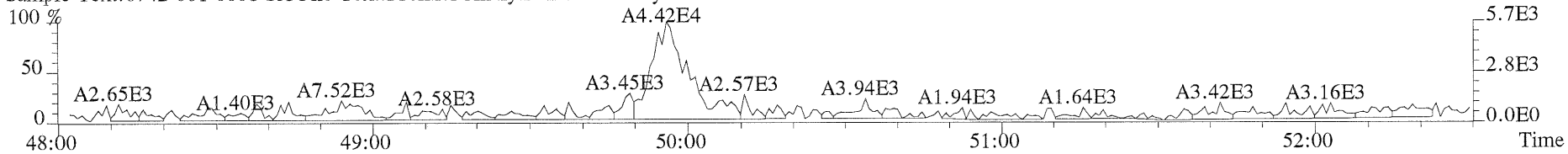
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



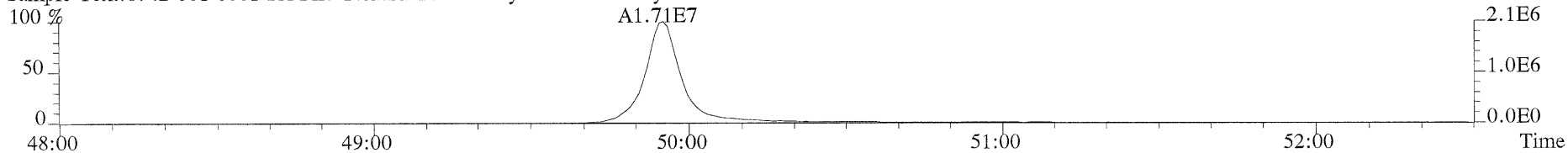
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



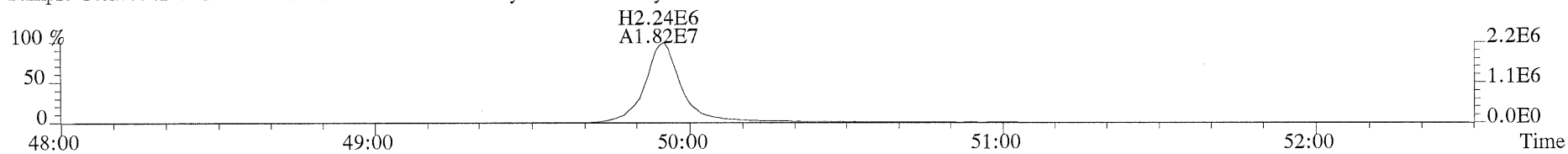
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



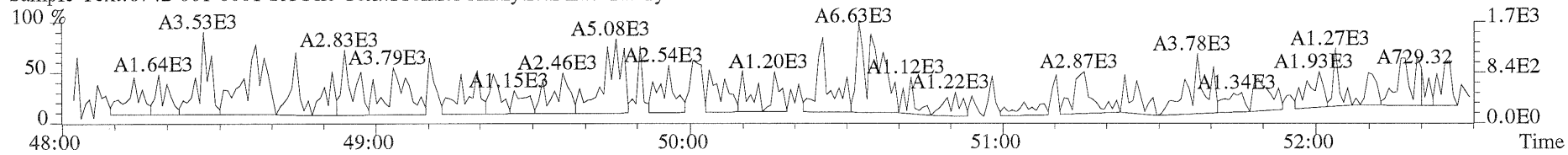
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6742-002-0001-SA Filename: 18MAY11M Sam:5 Acquired: 18-MAY-11 13:36:09 ICal: PCDDFAL3-3-7-11
Client ID: MW4042811 ConCal: ST051811M1 EndCal: ST051811M2
Results: 6742 GC Column: db5 Amount: 1.035 NATO 1989 Tox: 0.146
WHO 1998 Tox: 0.0858 WHO 2005 Tox: ~~0.0991~~

GN 5/23/11
TEQ = 0.0092

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	* n	NotFnd	1.13	*		2.50	736	648	0.769
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	708	644	1.18
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	664	708	1.25
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	664	708	1.63
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*		2.50	664	708	1.40
1,2,3,4,6,7,8-HpCDD	8.38e+04	0.90 y	44:03	1.30	7.91	J	2.50	-	-	*
OCDD	4.39e+05	0.88 y	49:34	1.45	66.9		2.50	-	-	*
2,3,7,8-TCDF	*	* n	NotFnd	1.15	*		2.50	752	1140	0.677
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	620	928	0.965
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	620	928	1.09
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.01	*		2.50	632	628	1.05
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.89	*		2.50	632	628	1.00
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	632	628	1.11
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.10	*		2.50	632	628	1.14
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.48	*		2.50	767	838	2.05
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.43	*		2.50	449	515	1.94
OCDF	*	* n	NotFnd	0.84	*		2.50	960	1120	6.50

						Rec
13C-2,3,7,8-TCDD	3.42e+07	0.77 y	27:16	1.03	1600	82.8
13C-1,2,3,7,8-PeCDD	2.84e+07	1.77 y	33:04	1.01	1360	70.2
13C-1,2,3,4,7,8-HxCDD	2.12e+07	1.26 y	38:26	1.19	1550	80.3
13C-1,2,3,6,7,8-HxCDD	1.77e+07	1.28 y	38:36	0.94	1640	85.0
13C-1,2,3,4,6,7,8-HpCDD	1.57e+07	1.06 y	44:01	0.83	1660	85.8
13C-OCDD	1.75e+07	0.93 y	49:33	0.61	2510	65.0
13C-2,3,7,8-TCDF	5.35e+07	0.86 y	26:30	0.98	1640	85.0
13C-1,2,3,7,8-PeCDF	4.36e+07	1.62 y	31:20	0.83	1580	81.7
13C-2,3,4,7,8-PeCDF	4.10e+07	1.64 y	32:39	0.80	1530	79.3
13C-1,2,3,4,7,8-HxCDF	3.34e+07	0.48 y	37:02	1.84	1580	81.7
13C-1,2,3,6,7,8-HxCDF	4.26e+07	0.48 y	37:14	2.29	1620	83.8
13C-2,3,4,6,7,8-HxCDF	3.35e+07	0.47 y	38:11	1.86	1570	81.2
13C-1,2,3,7,8,9-HxCDF	3.29e+07	0.49 y	39:36	1.98	1450	74.9
13C-1,2,3,4,6,7,8-HpCDF	1.61e+07	0.46 y	42:08	0.99	1420	73.5
13C-1,2,3,4,7,8,9-HpCDF	1.17e+07	0.46 y	44:57	0.77	1340	69.1
13C-OCDF	3.04e+07	0.93 y	49:55	1.17	2270	58.8
37Cl-2,3,7,8-TCDD	9.91e+06		27:17	0.73	654	84.7

13C-1,2,3,4-TCDD	4.01e+07	0.78 y	26:41	-	102						
13C-1,2,3,4-TCDF	6.43e+07	0.87 y	25:26	-	86.3						
13C-1,2,3,7,8,9-HxCDD	2.22e+07	1.26 y	39:03	-	86.4						

						Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*		NotFnd	1.13	*	2.50	736	648	0.769		0
Total Penta-Dioxins	*		NotFnd	1.02	*	2.50	708	644	1.18		0
Total Hexa-Dioxins	*		NotFnd	1.46	*	2.50	664	708	1.63		0
Total Hepta-Dioxins	1.94e+05		42:40	1.30	18.4 J	2.50	-	-	*		2
Total Tetra-Furans	*		NotFnd	1.15	*	2.50	752	1140	0.677		0
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*	2.50	620	928	1.09	PeCDF	0
Total Penta-Furans	*		NotFnd	0.89	*	2.50	620	928	1.09	0.00	0
Total Hexa-Furans	*		NotFnd	1.00	*	2.50	632	628	1.14		0
Total Hepta-Furans	5.09e+04		42:56	1.46	4.85 J	2.50	-	-	*		1

Analyst: _____ Date: 5/19/11

Totals class: Total Hepta-Dioxins Entry #: 41

Run: 11 File: 18MAY11M S: 5 I: 1 F: 4
Acquired: 18-MAY-11 13:36:09

Total Concentration: 18.4 Unnamed Concentration: 10.452

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:40	5.44e+04	5.63e+04	0.97 y	1.11e+05	10.5	
44:03	3.96e+04	4.41e+04	0.90 y	8.38e+04	7.91	1,2,3,4,6,7,8-HpCDD

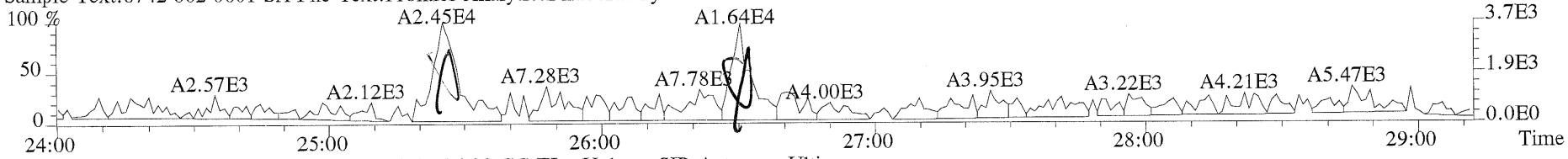
Totals class: Total Hepta-Furans Entry #: 46

Run: 11 File: 18MAY11M S: 5 I: 1 F: 4
Acquired: 18-MAY-11 13:36:09

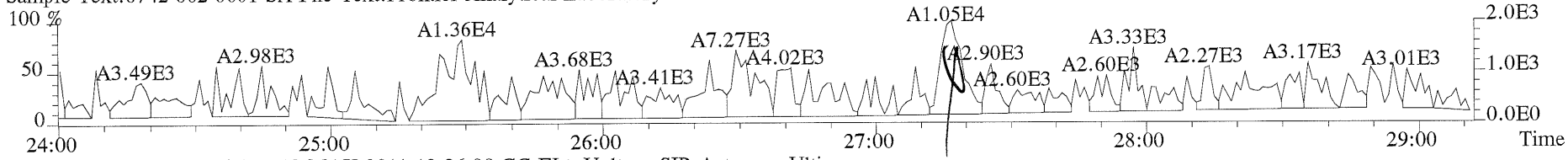
Total Concentration: 4.85 Unnamed Concentration: 4.852

RT	ml Resp	m2 Resp	RA		Resp	Concentration	Name
42:56	2.41e+04	2.68e+04	0.90	y	5.09e+04	4.85	

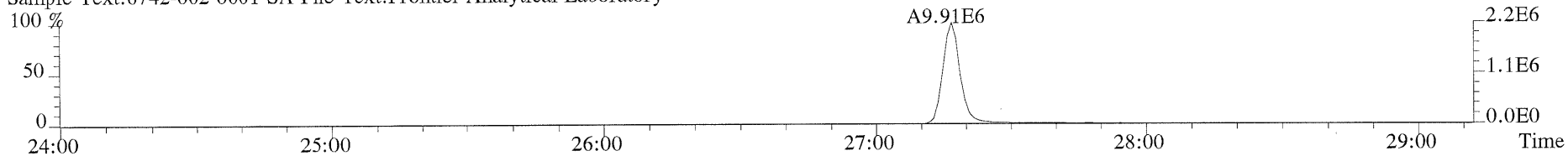
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



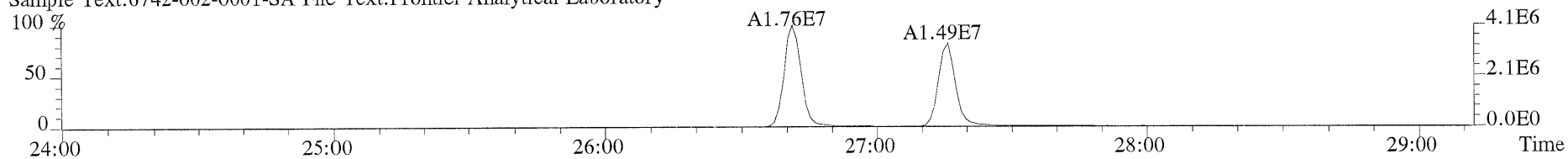
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



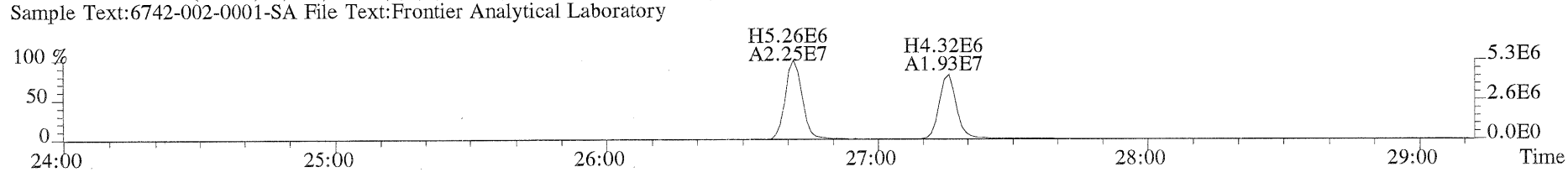
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



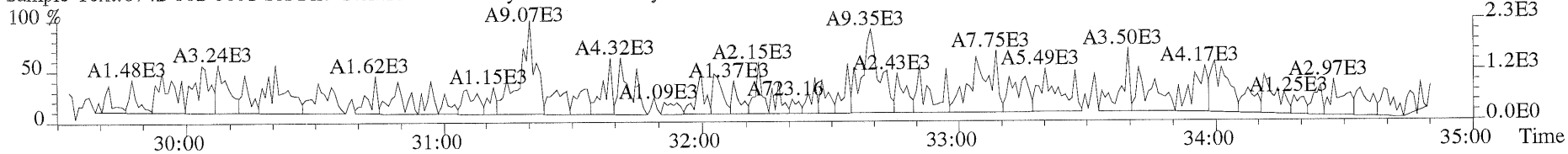
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



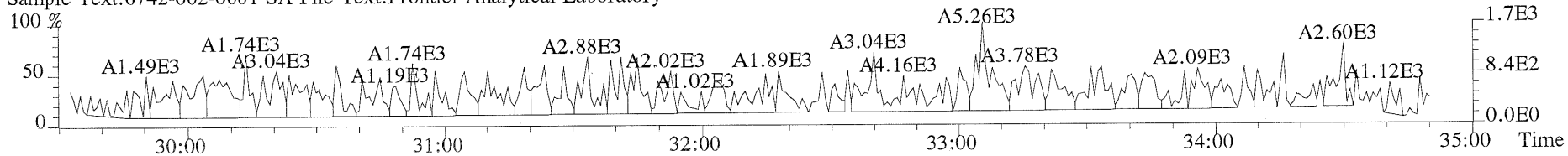
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



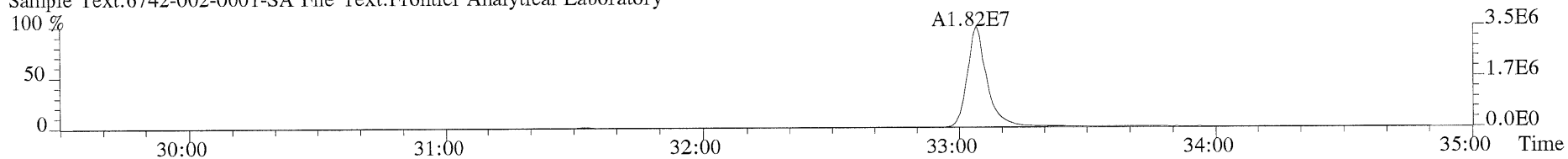
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



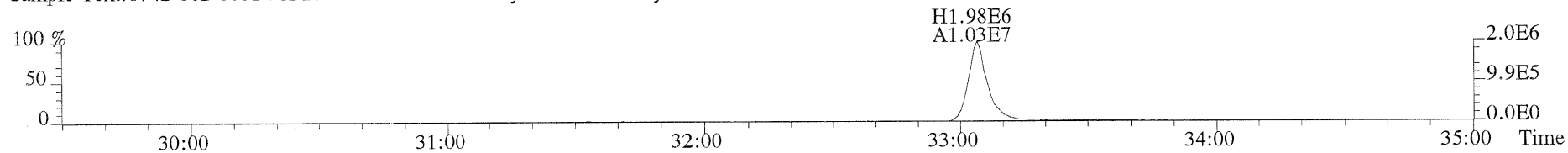
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



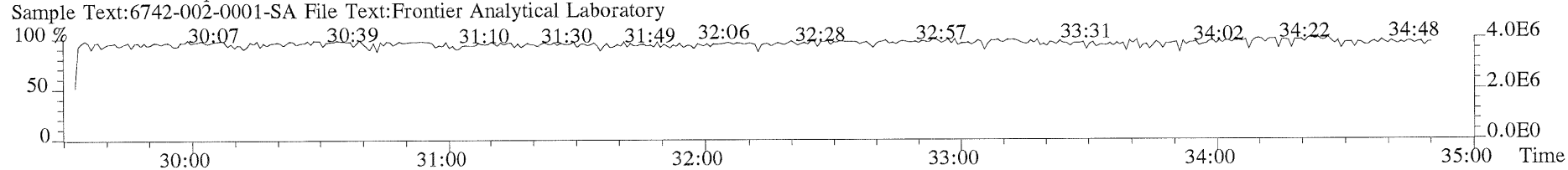
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



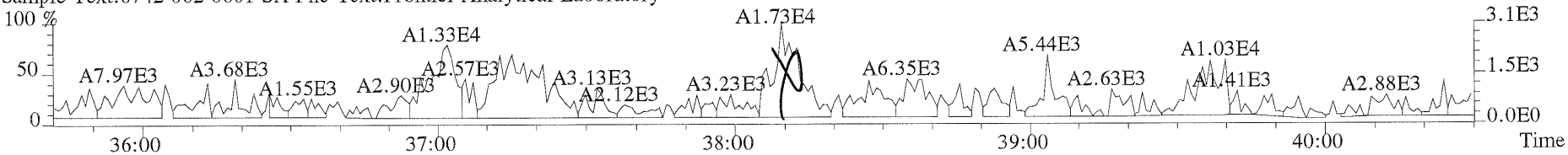
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



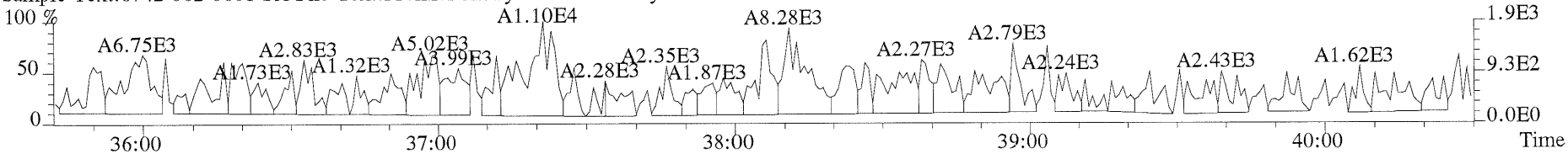
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:5 F:2 Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



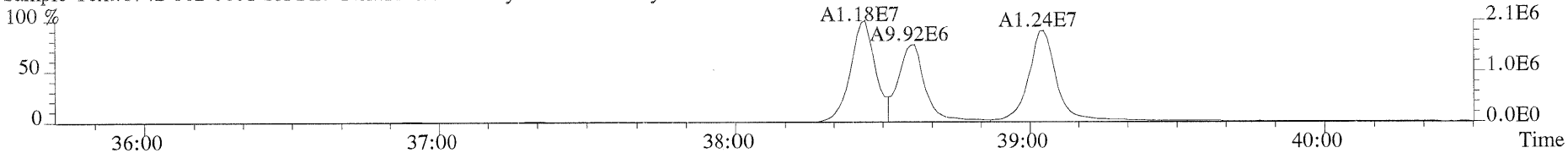
File:18MAY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



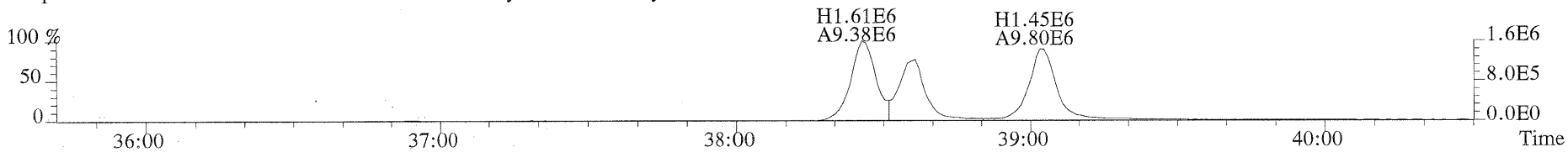
File:18MAY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



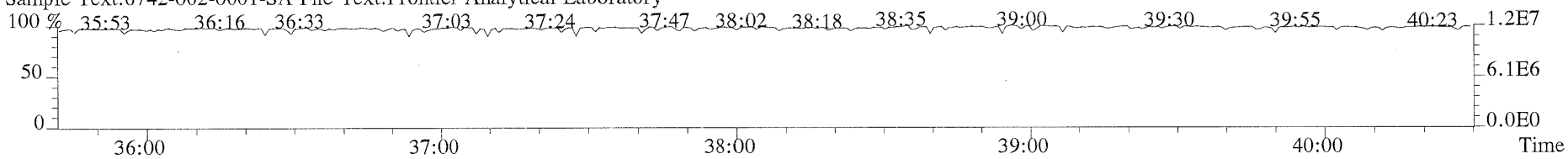
File:18MAY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



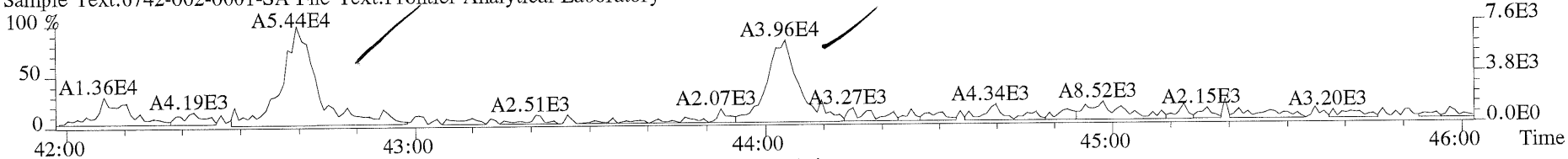
File:18MAY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



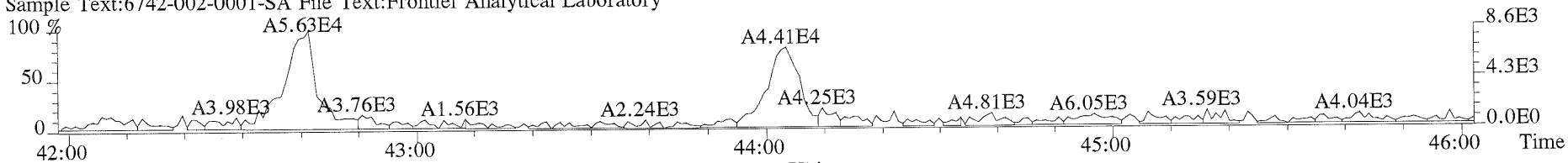
File:18MAY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:5 F:3 Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



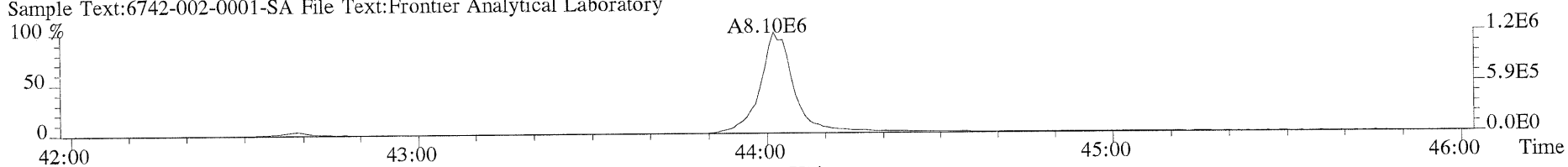
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



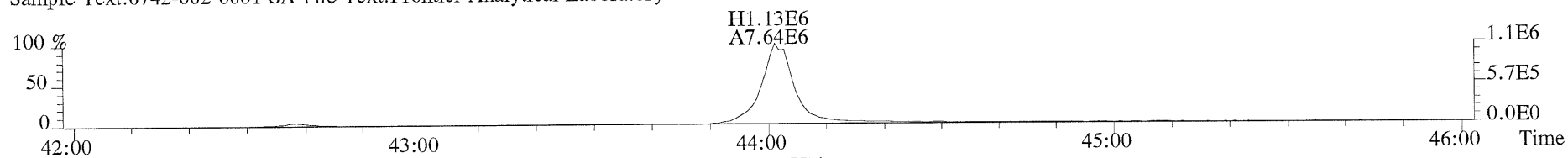
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



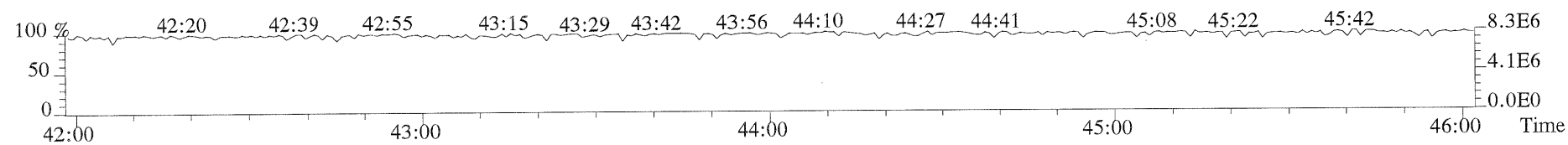
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



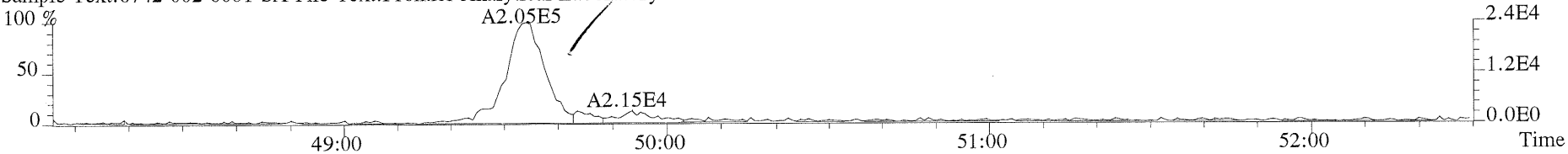
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



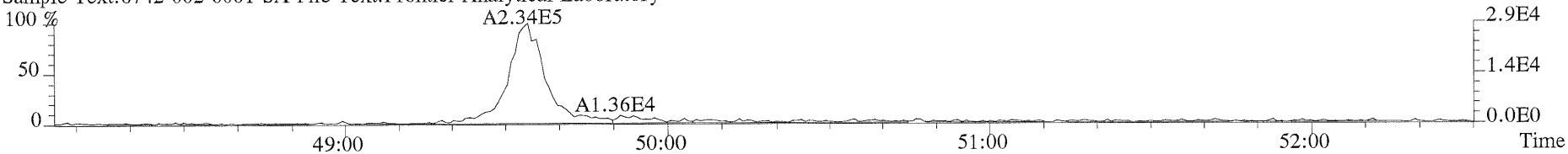
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:5 F:4 Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



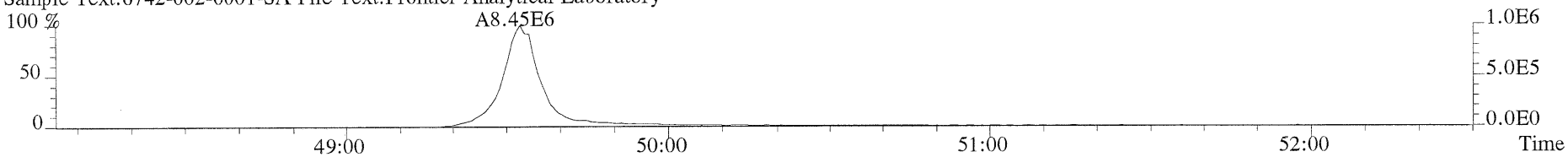
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



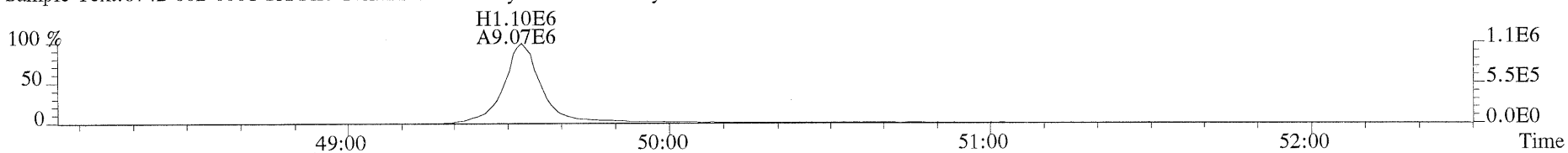
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



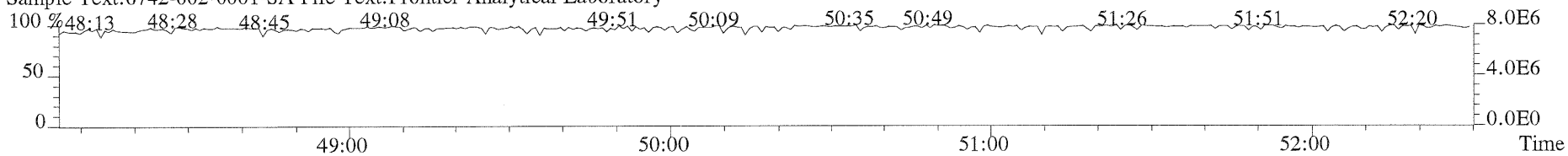
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



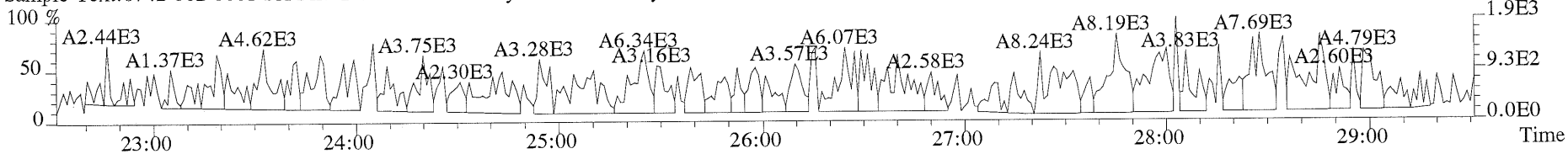
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



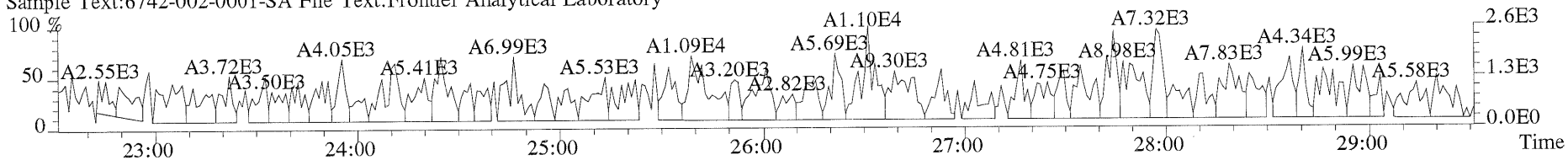
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:5 F:5 Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



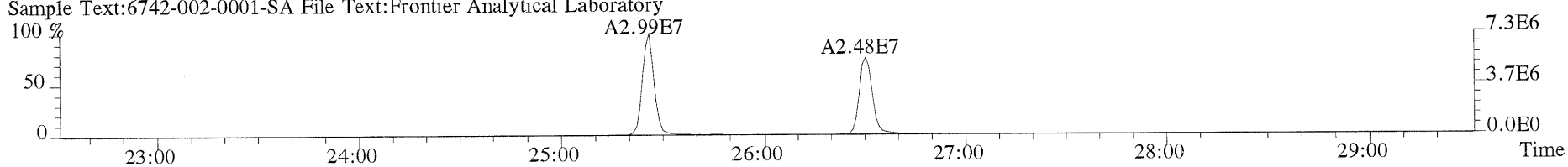
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



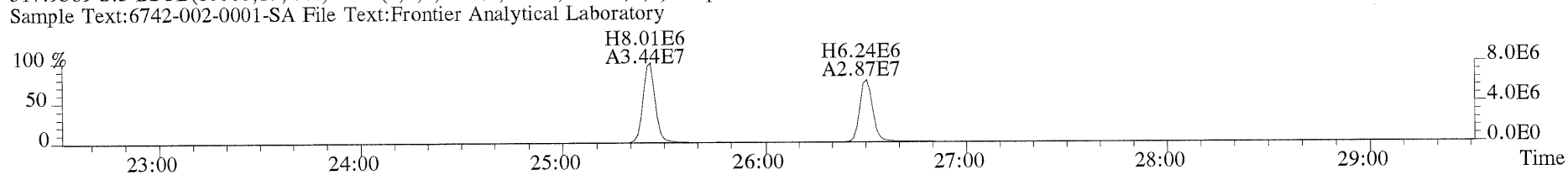
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



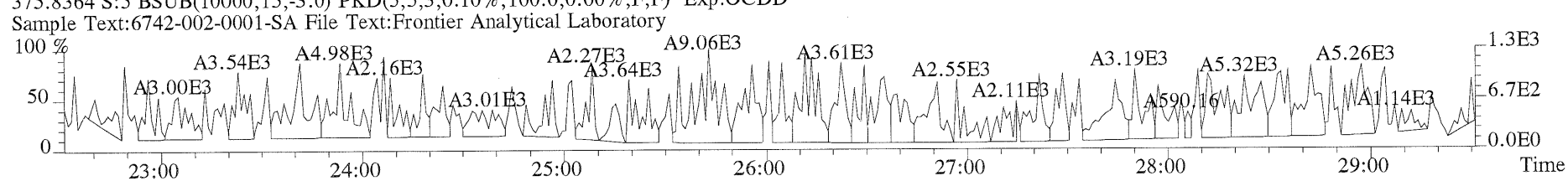
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



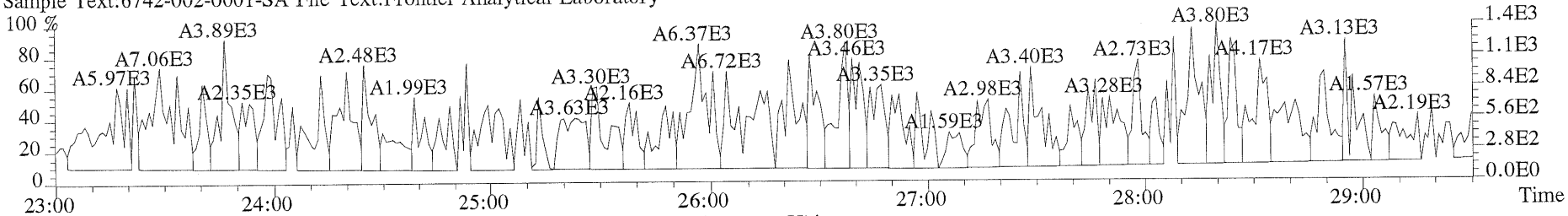
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



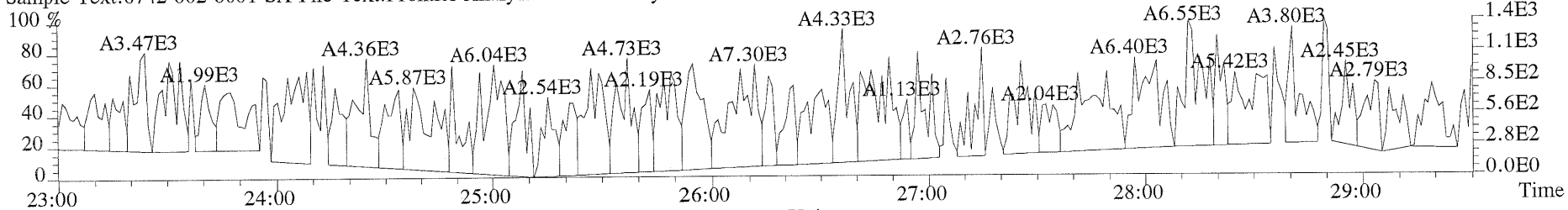
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



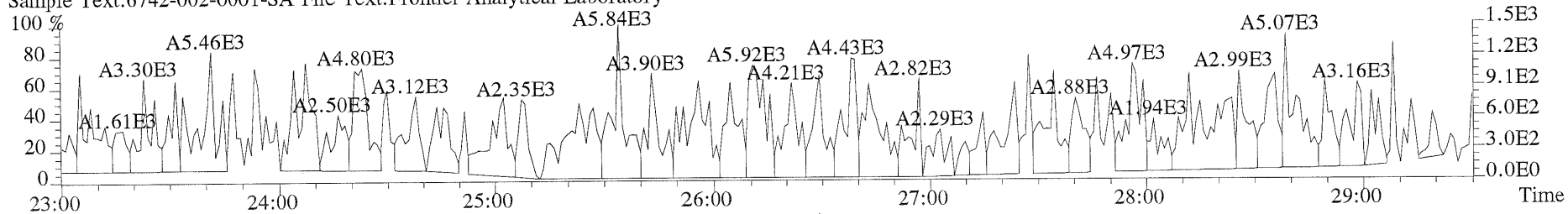
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



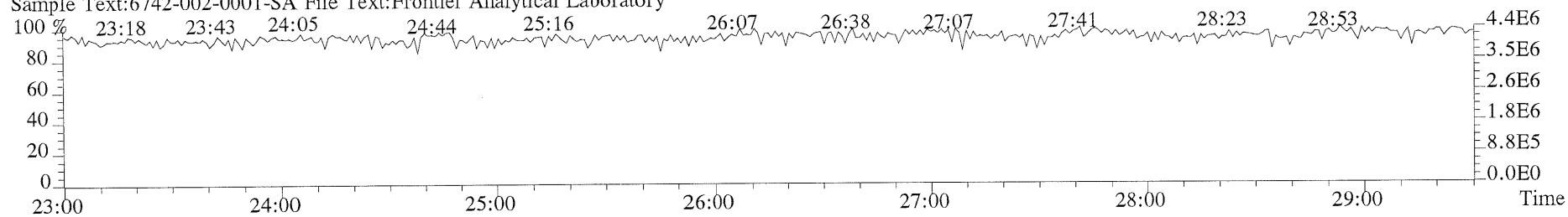
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



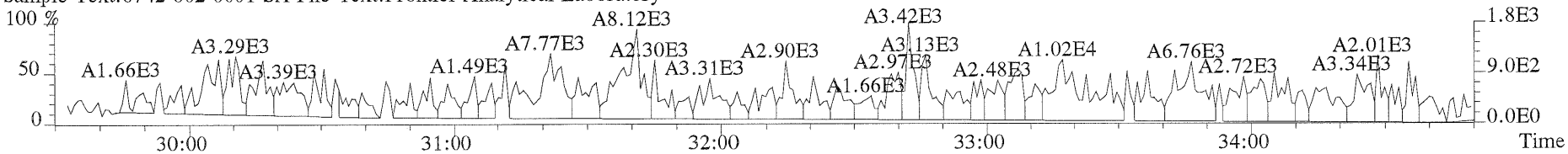
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



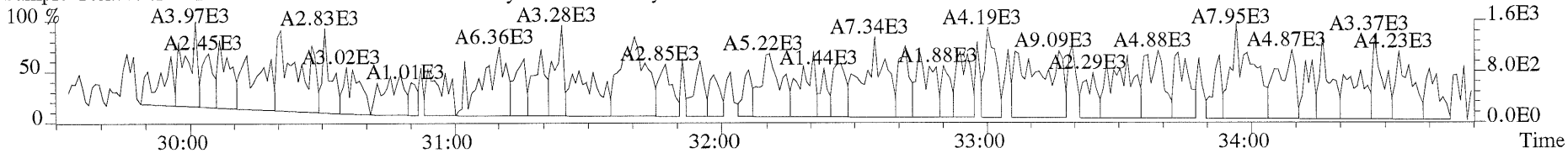
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
316.9824 S:5 Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



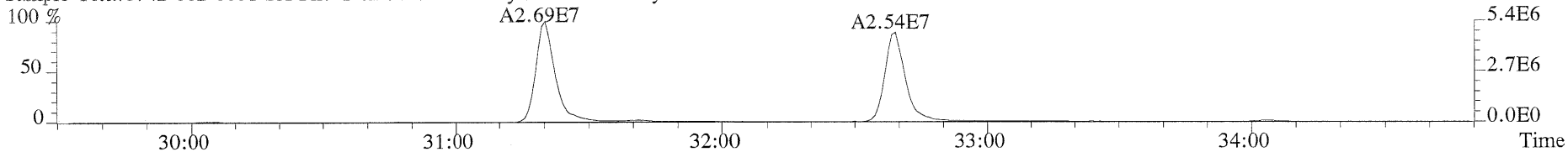
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



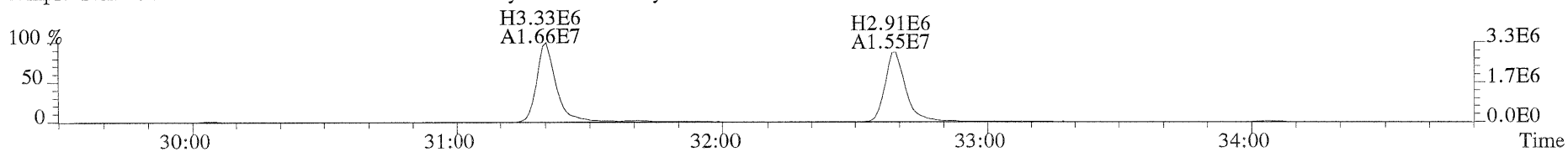
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory